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Reynaers Aluminium

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02D.F.131_01.133	20/01/2022	D3005497	02D.004	01/2017	
02D.F.131_01.135	20/01/2022	D3005517	02D.007	01/2017	
02D.F.132	01/2017	D2000154	02D.010	01/2017	
02D.F.134	01/2017	D0091928			
02D.F.136	01/2017	D0091929			
02D.F.137_01.001	20/01/2022	D3009876			
02D.F.138	01/2017				
02D.G.001	01/2017	D0091891			
02D.G.002	01/2017	D0091892			
02D.G.003	01/2017	D0091893			
02D.G.004	01/2017	D0091894			
02D.G.005	01/2017	D0091895			
02D.G.006	01/2017	D0091896			
02D.G.007	01/2017	D2000125			
02D.G.008	01/2017	D2000128			
02D.G.009	01/2017	D2000130			

A

Reynaers Aluminium

Algemene informatie
Généralités
General Information
Allgemeine Information

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SYMBOLENLIJST
LISTE DES SYMBOLES
LIST OF SYMBOLS
ZEICHENERKLAERUNG

Reynaers Aluminium

A

Profiel Profilé Profile Profil	Perfil Profil Profili	
Anodisatie- of lakoppervlakte Surface anodisée ou laquée Anodizing or coating surface Eloxierte oder lackierte Oberfläche	Superficie anodizada o lacada Powierzchnia anodowana lub malowana Superficie anodizzata o verniciata	
Polijstoppervlakte Surface à polir Polishing surface Polieroberfläche	Superficie pulida Powierzchnia polerowana Superficie lucidata	
Lengte Longueur Length Länge	Longitud Dlugosc Lunghezza	
Afmetingen Dimensions Dimensions Abmessungen	Dimensiones Wymiary Dimensioni	
Toepassing Application Application Anwendung	Applicación Zastosowanie Utilizzo	
Bevestigingsmiddelen Moyens de fixation Fixations Befestigungsmittel	Fijación Mocowanie Fissaggio	
Schroeven niet meegeleverd Fourniture sans vis Delivered without screws Lieferung ohne Schrauben	Entregado sin tornillos Dostarczane bez wkretow Consegnato senza viti	
Montagevolgorde Ordre de montage The order of assembly Montagereihenfolge	Orden de montaje Kolejnosc montazu Ordine di montaggio	
Dichtingsmiddel Matière d'étanchéité Sealing agent Abdichtungsmittel	Agente sellante Masa uszczelniajaca Siliconatura	
Verlijmen Coller Glue Verkleben	Collado Klej Colla	
Vulcaniseerlijm Colle vulcanisante Vulcanizing glue Vulkanisierkleber	Vulcanizante Klej wulkanizacyjny Colla vulcanizzante	
Referentiemaat Dimension de référence Reference dimension Referenzmass	Dimension de referencia Punkt odniesienia wymiarowania Dimensioni di riferimento	
Merkteken Marquage Mark Merkzeichen	Indicación Znak Contrassegno	
Struktureel gelijmd glaswerk Vitrage extérieur collé Structural sealing glazing UV-beständiger Scheibenrandverbund	Sellado acristalado estructural Szyba klejona spoiwem konstrukcyjnym Siliconatura vetro strutturale	
Primaire zichtzijde van een profiel Côté visible primaire d'un profilé Primary visible side of a profile Primäre sichtbare Seite eines Profils	Cara vista principal del perfil Glowna widoczna powierzchnia profilu Primo lato visibile di un profilo	
Secundaire zichtzijde van een profiel Côté visible secondaire d'un profilé Secondary visible side of a profile Sekund. sichtbare Seite eines Profils	Cara vista secundaria del perfil Drugorzedna widoczna powierzchnia profilu Secondo lato visibile di un profilo	

Verstek Onglet Mitre Gehrung	Inglete Połaczenie katowe Taglio	
Aantal Nombre Number Anzahl	Número Ilosc Numero	
Zie pagina Voir page See page Siehe Seite	Ver página Patrz strona Vedi pagina	
Type toebehoren Type accessoires Type accessories Typ Zubehör	Tipos de accesorios Rodzaj okuc Tipo di accessorio	
Glasmaten Dimensions vitres Glass sizes Glasmasse	Dimensiones de los vidrios Wymiary szyby Dimensioni del vetro	
Toepassing Application Utilization Anwendung	Applicación Zastosowanie Riferimenti	
Asymmetrisch profiel Profilé asymétrique Asymmetrical profile Asymmetrisches Profil	Perfil asimetrico Profil niesymetryczny Profilo assimmetrico	
Pagina Page Page Seite	Página Strona Pagina	
Laatste editie Dernière édition Last edition Letzte Edition	Edición Poprzednie wydanie Ultima edizione	
Vorige blz Page précédente Previous page Vorige Seite	Página siguiente Poprzednia strona Pagina precedente	
Verstevigingsprofiel Profil de renforcement Reinforcement profile Verstaerkungsprofil	Perfil refuerzo Profil wzmacniajacy Profilo di rinforzo	
Links van buiten gezien Gauche vue exterieur Left seen from outside Links Aussenansicht	Vista izquierda desde el exterior Na lewo widok od zewnątrz Sinistro visto da fuori	
Rechts van buiten gezien Droite vue exterieur Right seen from outside Rechts Aussenansicht	Vista derecha desde el exterior Na prawa widok od zewnątrz Destro visto da fuori	
Reynaprotector Reynaprotector Reynaprotector Reynaprotector	Reynaprotector Reynaprotector Reynaprotector	

Bicolor

Kleur buitenschaal (e) eerst aangeven in geval van bicolor (.69)
En cas de bicolore (.69) il faut indiquer d'abord la couleur du profilé extérieur (e)
For bicolor profiles (.69) first of all one should indicate the colour of the outer profile (e)
Falls zweifarbig (.69) soll man erst die Farbe des Aussenprofils (e) angeben

Para perfil en bicolor (.69) debe indicarse primero el color del perfil externo (e)
Dla profili dwukolorowych (.69) w pierwszej kolejnosci powinnien być wskazany kolor zewnetrznej strony profilu (e)
Nei profili bicolore (.69) prima di tutto indicare il colore del profilo esterno (e)

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SYMBOLENLIJST
LISTE DES SYMBOLES
LIST OF SYMBOLS
ZEICHENERKLAERUNG

A

	Inbraakwerend Anti-vol Burglar proof Einbruchhemmend	Protección anti-robo Antywlamaniowe Antiscasso
	Basisveiligheid Securité de base Basic safety Basissicherheit	Seguridad básica Antywlamaniowosc podstawowa Antiscasso base
EN	Testen uitgevoerd volgens norm EN 1627-1630 Essais effectués par conformément la norme EN 1627-1630 Tests carried out according to standard EN 1627-1630 Einbruchhemmende Prüfungen gemäß Norm EN 1627-1630	Ensayos realizados según norma EN 1627-1630 Badania wykonane wedlug normy EN 1627-1630 Antiscasso secondo EN 1627-1630
ENV	Testen uitgevoerd volgens norm DIN V ENV 1627 Essais effectués par conformément la norme DIN V ENV 1627 Tests carried out according to standard DIN V ENV 1627 Einbruchhemmende Prüfungen gemäß Norm DIN V ENV 1627	Ensayos realizados según norma DIN V ENV 1627 Badania wykonane wedlug normy DIN V ENV 1627 Antiscasso secondo DIN V ENV 1627
NEN	Testen uitgevoerd volgens norm NEN 5096 + ENV 1627 Essais effectués par conformément la norme NEN 5096 + ENV 1627 Tests carried out according to standard NEN 5096 + ENV 1627 Einbruchhemmende Prüfungen gemäß Norm NEN5096 + ENV1627	Ensayos realizados según norma NEN 5096 + ENV 1627 Badania wykonane norm NEN 5098 + ENV 1627 Antiscasso secondo NEN 5098 + ENV 1627
	Testen uitgevoerd door instituut IBS (Oostenrijk) volgens norm Ö B 3800/3850 Essais effectués par IBS(Autriche) conformément la norme Ö B 3800/3850 Tests carried out by IBS (Austria) according to standard Ö B 3800/3850 Brandschutzprüfungen durch-geführt beim IBS (Österreich) gemäß Norm Ö B 3800/3850	Ensayos hechos por IBS (Austria) según la estandard Ö B 3800/3850 Badania wykonane przez IBS (Austria) wedlug norm Ö B 3800/3850 Testato presso IBS (Austria) IBS secondo Ö B 3800/3850
	Testen uitgevoerd door instituut TNO (Nederland) volgens norm NEN 6069:1997 Essais effectués par TNO (Hollande) conformément la norme NEN 6069:1997 Tests carried out by TNO (The Netherlands) according to standard NEN 6069/1997 Brandschutzprüfungen durch-geführt beim IBS (Österreich) gemäß Norm Ö B 3800/3850	Ensayos realizados fuera por TNO(Holanda) según norma NEN 6069/1977 Badania wykonane przez TNO (Holandia) wedlug norm NEN 6069/1977 Testato presso TNO (Paesi Bassi) secondo NEN 6069/1977
	Brandwerend Anti-feu Fire-proof Feuerhemmend	Resistente al fuego Ognioodporne Anti fuoco
E N E I 60	Testen uitgevoerd volgens norm EN 1634-1(deuren) en EN 1364-1 (beglaasde wanden) Essais effectués par conformément la norme EN 1634-1(portes) et EN 1364-1(parois vitrés)	Ensayos realizados según norma 1634-1/ EN 1364-1 - Badania wykonane wedlug normy 1634-1 / EN 1364-1
E N E I 30	Tests carried out according to standard EN 1634-1(doors) EN 1364-1(glazed partitioning) Prüfungen gemäß Norm EN 1634-1(Türen) und EN 1364-1(verglaste Wände)	- Antifuoco secondo EN 1634-1 / EN 1364-1 -
	Toebehoren brandwerend Accessoires anti-feu Fire-proof accessories Feuerhemmender Zubehör	Accessorios resistente al fuego Akcesoria ognioodporne Accessori Anti fuoco
	Gelaagd glas Verre feuilleté Laminated glass Verbundglas	Vidrio Laminado Szyba laminiowana Vetro laminato
	Glas Verre Glass Glas	Vidrio Szyba Vetro
	Handleiding Manuel Manual Gebrauchsanweisung	Manual Instrukcja Manuale
	Alleen voor CS 59 Seulement pour CS 59 Only for CS 59 Nur für CS 59	Solo para CS 59 Tylko do CS 59 Solo per CS 59
	Alleen voor CS 77 Seulement pour CS 77 Only for CS 77 Nur für CS 77	Solo para CS 77 Tylko do CS 77 Solo per CS 77
	Pershoekverbinding Equerre à sertir Crimp corner cleat Presseckverbinder	Escuadra de ensamblar Naroznik zaciskany Squadrette a cianfrinare
	Hoekverbinding met schroefhoek (*) enkel voor klembaar beslag Equerre à blocage (*) seulement pour accessoires encastrables Corner cleat with screw (*) only for clamping accessories Eckverbinder mit Spannschraube (*) nur für klemmbaren Beschlag	Escuadra de atornillar (*) solo para accesorios apretables Naroznik skrecany (*) tylko dla akcesoriow zatrzaskiwanych Squadrette ad avvitare (*) solo per accessori a scatto
	T-verbinding met schroef Jonction-T avec vis T-bracket with screw T-Verbinder mit Schraube	Tope de union con tornillo Lacznik teowy skrecany Giunti con viti
	T-verbinding met schroef voor buitendraaiend raam Jonction-T avec vis pour fenêtre ouvrant vers l'ext. T-bracket with screw outside opening window T-Verbinder mit Schraube aussen öffnendes Fenster	Tope Unión con tornillo apertura exterior Lacznik teowy skrecany do okien otwieranych na zewnatrz Cavallotti conuiti ap est.
	Vulhoek Equerre de remplissage Corner support Fülleckwinkel	Escuadra de relleno Wspornik narozny Squadretta di rempirento
	Steunhoek Cale de feuillure Rebate support Glasanschlagwinkel	Escuadra de alineamiento Katowy naroznik Squadrette di allineamento
	Verstelbare schroefhoek Equerre à visser réglable Adjustable screw corner cleat Verstellbarer Schraubeckwinkel	Escuadra de atornillar regulable Katowy naroznik skrecany Squadrette ad avvitare regolabili
	Steunhoeken verstelbaar Cales de feuillure réglables Rebate supports adjustable Verstellbare Eckwinkel Glasanschlag	Escuadra de alineamiento regulable Katowy naroznik nastawny Squadretta di allineamento regolabile
	Hoekverbinding met nagel Equerre avec cheville Corner cleat with drive pin Eckverbinder mit Stift	Escuadra con clavia Lacznik narozny sworzniowy Squadretta a spinare
	T-verbinding met nagel Jonction-T avec cheville T-bracket with drive pin T-Verbinder mit Stift	Tope de union con clavia Lacznik teowy sworzniowy Cavallotto a spinare
	T-verbinding met nagel voor buitendraaiend raam Jonction-T avec cheville pour fenêtre ouvrant vers l'ext. T-bracket with drive pin outward opening window T-Verbinder mit Stift nach aussen öffnendes Fenster	Tope unión con clavia apertura exterior Lacznik teowy swozniowy do okien otwieranych na zewnatrz Cavallotto a spinare ap. est.
	Verstelbare T-verbinding Jonction-T réglable Adjustable T-bracket Verstellbarer T-Verbinder	Union T regulable Lacznik teowy nastawny Giunti a T regolabili
	Kruisverbindingen Jonctions transversales Cross connections Kreuzverbindungen	Uniones transversales Polaczenie krzyzowe Collegamento a croce
	Kruisverbinding met schroef Jonction transversale avec vis Cross connection with screw Kreuzverbindung mit Schraube	Union transversal con tornillo Polaczenie krzyzowe skrecane Collegamento a croce con viti
	Bevestiging drager Fixation chevon Fixation rafter Beferstigung Dachsparren	Fijacion mainel Mocowanie krokwi Fissaggio montante

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SYMBOLENLIJST
LISTE DES SYMBOLES
LIST OF SYMBOLS
ZEICHENERKLAERUNG

Reynaers Aluminium

A

	Eénpuntsluiting Fermeture à 1 point 1-Point lock Einfachverriegelung	Cerradura de 1 punto Zamek 1-punktowy Serratura a 1 punto di chiusura
	Eénpuntsluiting met dagschieter Fermeture à 1 point à pêne 1-Point lock with latch Einfachverriegelung mit Falle	Cerradura 1 punto golpe Zamek 1-punktowy Serratura a 1 punto di chiusura con scrocco
	Eénpuntsluiting met rol Fermeture à 1 points à rouleau 1-Point lock with roller Einfachverriegelung mit Rolle	Cerradura de 1 punto con rodillo Zamek 1-punktowy z barylka Serratura a 1 punto di chiusura con rullino
	Haakslot Serrure à crochet Hook lock Hakenschloss	Cerradura gancho Zamek hakowy Serratura a gancio
	Tweepuntsluiting Fermeture à 2 points 2-Point lock Zweifachverriegelung	Cerradura de 2 puntos Zamek 2-punktowy Serratura a 2 punti di chiusura
	Driepuntsluiting Fermeture à 3 points 3-Point lock Dreifachverriegelung	Cerradura de 3 puntos Zamek 3-punktowy Serratura a 3 punti di chiusura
	Driepuntsluiting met rol Fermeture à 3 points à rouleau 3-Point lock with roller Dreifachverriegelung mit Rolle	Cerradura de 3 puntos con rodillo Zamek 3-punktowy z barylka Serratura a 3 punti di chiusura con rullino
	Vierpuntsluiting Fermeture à 4 points 4-Point lock Vierfachverriegelung	Cerradura de 4 puntos Zamek 4-punktowy Serratura a 4 punti di chiusura
	Vijfpuntsluiting Fermeture à 5 points 5-Point lock Fünffachverriegelung	Cerradura de 5 puntos Zamek 5-punktowy Serratura a 5 punti di chiusura
	Vijfpuntsluiting met rol Fermeture à 5 points à rouleau 5-Point lock with roller Fünffachverriegelung mit Rolle	Cerradura de 5 puntos con rodillo Zamek 5-punktowy z barylka Serratura a 5 punti di chiusura con rullino
	Zespuntsluiting Fermeture à 6 points 6-Point lock Sechsfachverriegelung	Cerradura de 6 puntos Zamek 6-punktowy Serratura a 6 punti di chiusura
	Zevenpuntsluiting Fermeture à 7 points 7-Point lock Siebenfachverriegelung	Cerradura de 7 puntos Zamek 7-punktowy Serratura a 7 punti di chiusura
	Espagnoletslot Fermeture espagnolette Espagnolette Lock Treibriegelverschluss	Cierre ventana Zamek drzwiowy do blokady pionowej Serratura a spagnoletta
	Cilinders Cylindres Cylinders Zylinder	Bombines Cylindry Cilindri
	Cilinderplaten Ecussons Cylinder covers PZ-Rosette	Escudos bombin Oslona wkladki bebenkowej Copertura cilindri
	Slotpaden Gâches Receivers Schliessbleche	Gancho Gniazdo rygla zamka Riscontri
	Deursluiters Ferme-porte Door closer Türschliesser	Cierrapuertas Samozamykacz drzwiowy Chijdiporta
	Deursluiters + rem Ferme-porte + frein Door closer + brake Türschliesser + Bremse	Cierrapuertas + freno Samozamykacz drzwiowy + hamulec Chijdiporta + freno

	Elektrische deuropener Gâche pour serrure électrique Electric door opener Elektrischer Türöffner	Portero automatico Elektrorygiel Apertura porta elettrica
	Deurgrendels en kantschuiven Verrous de condamnation portes Flush and door bolts Kantriegel und Türriegel	Pasadores puerta Rygle biernych skrzydel drzwiowych Catenacciolo chiusura centrale
	Geen elektrische spanning bij gesloten deur En cas de porte fermé pas des tension électrique No electric tension in case of closed door Keine elektrische Spannung bei geschlossen Tür	**Sin tensión eléctrica en caso de que la puerta esté cerrada** Brak elektrycznego napiecia w przypadku zamknietych drzwi Stacco tensione a porta chiusa
	Raampompen Crémones Window handles Handhebel	Cremona Klamka okienna Cremonese
	Deurkrukken Béquilles Door handles Türdrücker	Manubrios Klamka drzwiowa Maniglie
	Sluitingen dubbele deur Serrures pour porte double Locks for double door Türtreibriegel	Cerradura puerta doble Blokada drzwi dwuskrzydlowych Serratura porta a 2 ante
	Raampomp naar buiten draaiend raam Crémone fenêtre ouvrant vers l'extérieur Handle outward opening window Handhebel nach aussen öffnendes Fenster	Cremona ventana apertura exterior Klamka okna otwieranego na zewnatrz Cremonese apertura est.
	Raamscharnieren Paumelles pour fenêtres Window hinges Fensterbänder	Bisagras ventana Zawias okienny Cerniere
	Deurscharnieren 2-delig Paumelles porte 2-partite Door hinges 2-part Türbänder 2-teilig	Pernio puerta 2 palas Zawias drzwiowy 2-czesciowy Cerniera 2 ali
	Deurscharnieren 3-delig Paumelles porte 3-partite Door hinges 3-part Türbänder 3-teilig	Pernio puerta 3 palas Zawias drzwiowy 3-czesciowy Cerniera 3 ali
	Afstandsbussen Pièces de distance Set of distance bushes Distanzbuchsen	Piezas distanciadoras Tuleje dystansowe Set distanzialli
	Geen afstandsbussen nodig Pas de pièces de distance No distance bushes needed Keine Distanzbuchse	No necesario piezas distanciadoras Brak koniecznosci stosowania tuleji dystansowych Senza distanziali
	Inbraakwerende kogel Bille anti-vol Anti-burglar ball Einbruchhemmende Kugel	Bola proteccion antirobbo Kulka antywlamaniowa Antiscasso
	Dieveklauw Pene anti-degondage Anti-lift pin Sicherheitsbolzen	Perno antielevador Bolec antywywazeniowy Antisollevarento
	Kozijndorpelveer Pivot de frein aerien Overhead closer Obentürschliesser	Muelle aereo Samozamykacz gorny Chiudi porta sup.
	Vloerveer Pivot de frein au sol Floor closer Bodentürschliesser	Muelle pavimento puerta Samozamykacz podlogowy Chiudi porta inf.

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SYMBOLENLIJST
LISTE DES SYMBOLES
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ZEICHENERKLAERUNG

A

Eindstuk deurvleugel
Pièce finale ouvr. porte
End piece door vent
Endkappe Türflügel

Tapeta hoja puerta
Koncowka do skrzydla drzwiowego
Terminale anta

Eindstukken bodemprofiel
Pièces finales profilé de seuil
End pieces floor profile
Endkappe Schwelle

Piezas terminales perfil suelo
Koncowki profilu podlogowego
Terminale soglia

Eindstukken Z-T deur
Bouchon profilé porte Z-T
End pieces Z-T door
Endkappe Z-T Tür

Tapetas puerta Z-T
Element koncowy Z-T drzwi
Terminale profili porte Z e T

Afdichtingen dorpels
Profilés latéral pour bavettes
Sill end pieces
Endstück für Wetterschenkel

Tapetas condensacion
Koncowki do profili podokiennych
Tappi soglia

Glassteunen
Supports cale de vitrage
Glazing supports
Klotzbrücken

Soportes vidrio
Podporka pod przeszklenie
Supporti per vetro

Afdekkap voor waterafvoersleuven
Capuchon écoulement d'eau
Weep hole cover
Abdeckkappe Entwässerung

Deflector aire
Maskownica otworu drenazowego
Paratempesta

Eindstukken stolpprofielen
Bouchons double ouvrant
End parts double casement profile
Endkappe Stulpprofil

Tapetas perfil doble hoja
Koncowka profilu ruchomego slupka
Tappo inversione

Koppelstuk
Piece de raccordement
Connection piece
Kopplungsstueck

Pieza de union
Element Laczacy
Accessori collegamento

Eindstukken voor stolpprofielen
Bouchons pièce finale pour profilé double ouvrant
End parts for double casement profiles
Endkappen für Stulpprofile

Tapeta perfil doble hoja
Koncowka profilu ruchomego slupka
Tappi 2 ante

Afdichting goot
Fermeture gouttière
End piece gutter
Endkappe Rinne

Tapetas canal
Koncowka rynny
Terminale gronda

Eindstuk
Piece finale
End piece
Endkappe

Terminal
Koncowka
Terminale

Stootplaat
Arrêt vitrage toiture
Glass panel stop
Endstück Verglasung

Tope del panel de vidrio
Ogranicznik wypelnienia
Ferro x vetro

Veranda type 1
Veranda type 1
Veranda type 1
Veranda Typ 1

Veranda tipo 1
Weranda typu 1
Veranda tipo 1

Paniekdeur
Porte de panique
Panic door
Paniktür

Puenta antipánico
Drzwi antypaniczne
Porta antipanico

Diversen
Divers
Miscellaneous
Diverse

Diversos
Elementy uzupelniajace
Varie

Klemstuk
Clip
Clip
Federklemme

Clip
Uchwyt
Clip

Nokbevestiging
Fixation de la faîtière
Fixation of the ridge
Firstanschluss

Fijacion del resalte
Element mocujacy kalenicowy
Fissaggio colmo

Binnenbeglazingsdichting
Joint à bourrer
Inner glazing gasket
Innenverglasungsdichtung

Junta de acristalado interior
Uszczelka przyszybowa wewnetrzna
Guarnizione del vetro interna

Buitenbeglazingsdichting
Joint de vitrage extérieur
Outer glazing gasket
Aussenverglasungsdichtung

Junta de acristalado exterior
Uszczelka przyszybowa zewnetrzna
Guarnizione del vetro esterna

Buitenbeglazingsdichting
Joint de vitrage extérieur
Outer glazing gasket
Aussenverglasungsdichtung

Junta de acristalado exterior
Uszczelka przyszybowa zewnetrzna
Guarnizione del vetro esterna

Akoestische dichting
Joint acoustique
Acoustical seal gasket
Flügelaufschlagdichtung

Junta acustica
Uszczelka akustyczna
Guarnizione di isolamento acustico

Middendichtingen
Joints centraux
Central gaskets
Mitteldichtungen

Junta central
Uszczelka centralna
Guarnizione centrale

Aanslagdichting
Joint de butée
Butt strip
Anschlagdichtung

Junta tope
Uszczelka
Guarnizione di battuta

Dilatatiedichtingen
Joints de dilatation
Expansion gaskets
Dehnungsdichtungen

Junta de dilatacion
Uszczelka dylatacyjna
Guarnizione di espansione

Dichting
Joint
Gasket
Dichtung

Junta
Uszczelka
Guarnizione

Dichting
Joint
Gasket
Dichtung

Junta
Uszczelka
Guarnizione

Afdichtingsstuk
Pièce d'étanchéité
Sealing piece
Dichtstück

Pieza de sellado
Element uszczelniajacy
Accessorio per sigillatura

Opzwellende Dichting
Joint Gonflant
Swelling Gasket
Schwellende Dichtung

Junta veranda
Uszczelka do werandy
Guarnizione espansione

Dichting veranda
Joint véranda
Gasket veranda
Dichtung Wintergarten

Junta veranda
Uszczelka do werandy
Guarnizione veranda

Borsteldichtingen
Joints brosse
Brushes
Bürstendichtungen

Cepillos
Szczotki
Spazzole

Isolerend vulstuk
Pièce de remplissage isolante
Insulating filling piece
Isolierendes Füllstück

Pieza de relleno aislante
Wkladka izolacyjna
Riempinento isolanta

Einddichting
Joint d'assemblage
End gasket
Enddichtung

Junta
Uszczelka koncowa
Angolo prestampato

Isolatie
Isolant
Insulation
Isolation

Aislamiento
Izolacyja
Isolante

Brievenkleppen
Entrées de courrier
Letter boxes
Briefeinwurf

Buzones
Skrzynka na listy
Cassetta posta

Automatische deurdichtingen
Fermetures automatiques
Automatic door latches
Automatische Türdichtungen

Cierrapuertas automaticos
Drzwiowa automat. opadajaca listwa
Dispositivo di chiusura soglia

Variant
Variante
Variant
Variante

Variante
Wariant
Variante

D0071483

ES 45Pa

SYMBOLENLIJST
LISTE DES SYMBOLES
LIST OF SYMBOLS
ZEICHENERKLAERUNG

Reynaers Aluminium

A

	Stolp-kipraam Fenêtre double ouvr.-batt. Double casem.-tilt window Stulpfenster D/DK	Ventana abatible doble hoja Okno rozwierano-uchylne dwuskrzydlowe Finestra a 2 ante ribalta
	Draaikip Oscillo-battant Turn and tilt Drehkipp	Oscilobatiente Okno rozwierno-uchylne Anta ribalta
	Kipdraai Battantes-ouvrantes Tilt and turn Kippdreh	Batiente oscilante Okno uchylno-rozwierane Anta ribalta inversa
	Draairaam Fenêtre ouvrante Side-hung window Drehfenster	Ventana practicable Okno rozwierane Battente
	Stolpraam Fenêtre double ouvrant Double casement window Stulp-Flügel Fenster	Ventana doble hoja Okno rozwierane wuskrzydlowe Finestra a 2 ante
	Valraam Fenêtre à soufflet Bottom hung window Kipp-Fenster	Ventana abatible Okno uchylne Wasistas
	Afstandbedieningen valraam Commandes à distance pour fenêtre à soufflet Remote control for fanlight window Oberlichtbeschlag für Kipp-Flügel	Funcionamiento a distancia para ventana de techo Mechanizm do dystansowego uchylania okien Vasistas con telecmando

	Buitendraaiend raam Fenêtre ouvrant vers l'extérieur Outside opening window Nach aussen öffnendes Fenster	Ventana apertura exterior Okno otwierane na zewnatrz Finestra ad apertura esterna
	Uitzetzakraam Châssis à l'Italienne Top-hung window Senk-Klappfenster	Ventana proyectante con compas Okno wychylne na zewnatrz Sporgere con frizioni
	Tuimel- en taatsraam Châssis pivotant Pivot window Schwingflügel	Ventana pivotante Okno obrotowe Bilico
	Vouwdeur Porte pliante Folding door Falttür	Puerta plegable Drzwi harmonijkowe Veranda libro
	Schuifkip (TF) Coulissant-tombant (TF) Slide and tilt (TF) Schiebekipptür (TF)	Paralela Uchylno-przesuwny Scorrevole parallelo
	Schuifraam Fenêtre coulissante Sliding window Schiebefenster	Ventana corredera Okno przesuwne Scorrevole
	Parallel opengaand raam Fenêtre ouvrant parallele Parallel opening window Parallelausstellfenster	Ventana proyectante paralela Okno rownolegle wysuwane na zewnatrz Sporgere parallelo
	Kipraam Fenêtre battante Tilt window Kippfenster	Oscilo Okno uchylne Vasisdas
	Dubbele deur buitendraaiend Porte double ouvrant vers l'ext. Double door outward opening Zweiflügelige Tür aussen öffnend	Puerta doble apertura exterior Drzwi dwuskrzydlowe otw. na zew. Porta due ante apertura esterna
	Deur binnendraaiend Porte ouvrant vers l'int. Door inward opening Tür nach innen öffnend	Puerta apertura interior Drzwi otw. do wewnatrz Porta apertura interna
	Deur buitendraaiend Porte ouvrant vers l'ext. Door outward opening Tür aussen öffnend	Puerta apertura exterior Drzwi otw. na zewnatrz Porta apertura esterna

	DRAAISCHUIFRAAM OUVRANT PROJETANT SIDE-HUNG SLIDING WINDOW DREHSCHIEBEFENSTER	
	Verankeringen Ancrages Fixing lugs Verankerungen	Anclajes Kotwy Ancoraggio
	Sluitpennen en sluitstukken Rouleaux et gâches Lock pins and lock plates Schliessrollen und Schliessstücke	Bulones y cerraderos Plytka i kolek ryglujacy -
	Goot Gouttière Gutter Rinne	Canal Rynna Gronda
	Dakvenster Tabatière Attic window Dachfenster	Ventana de techo Okno dachowe Lucernario
	Kunststof dakbedekking Toiture synthétique Synthetic roofing Kunststoff Dachdeckung	Cubierta en material sintetico Wypelnienie poliweglanem na dachy Pannello
	Zelfklevende dubbelzijdige tape Bande autocollante 2 faces Self-adhesive double sided tape Selbstklebendes beidseitiges Band	Cinta autoadhesiva de dos caras Biadesivo
	Domotica Domotique Domotics Domotik	Domótica Domotica -
	Profielen met hoge isolatiewaarde Profilés avec valeur d'isolation élevée Profiles with high insulation value Profile mit höhen Isolationswert	Perfiles alto aislamiento térmico Profile o wysokiej izolacyjnosci termicznej Alto isolarento
	Wielen Galets Rollers Laufwagen	Ruletas Wozki Carrelli
	Regeltringels Tringles de réglage Adjustment rods Regulierstange	Varilla de ajuste Listwy regulacyjne Astina
	Geleidingsplaat Guide Guide plate Führung	Placa guia Element naprowadzajacy Guida

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SYMBOLENLIJST
LISTE DES SYMBOLES
LIST OF SYMBOLS
ZEICHENERKLAERUNG

A

Gereedschap
Outillage
Tool
Werkzeug

Util
Narzedzie
Utensile

Gereedschappen en machines voor ontwatering van kader
Outillage et machinerie pour drainage dormant
Tools and machinery for draining outer frame
Werkzeuge und Maschinen für Entwässerung Blendrahmen

Utiles y maquinaria para el drenaje del marco
Narzedzia i maszyny do drenazy oscieznic
Utensili e macchinari per il drenaggio del telaio

Gereedschappen en machines voor ontwatering van vleugel
Outillage et machinerie pour drainage ouvrant
Tools and machinery for draining vent
Werkzeuge und Maschinen für Entwässerung Flügel

Utiles y maquinaria para el drenaje de la hoja
Narzedzia i maszyny do drenazy skrzydel
Utensili e macchinari per il drenaggio dell'anta

Decompressie
Decompression
Decompression
Dekompression

Descompresion
Dekompresja
Decompressione

Gereedschappen en machines voor T-verbinding
Outillage et machinerie pour jonction-T
Tools and machinery for T-brackets
Werkzeuge und Maschinen für T-Verbinder

Utiles y maquinaria para topes de unión
Narzedzia i maszyny do polaczen teowych
Utensili e macchinari per i giunti

Gereedschappen en machines voor krukuitsparing
Outillage et machinerie pour fermeture
Tools and machinery for closure
Werkzeuge und Maschinen für Beschläge

Utiles y maquinaria para el cierre
Narzedzia i maszyny do zamkniec
Utensili e macchinari per le chiusure

Multifunctionele matrijs
Matrice multifonctionnelle
Multifunctional punch tool
Mehrzweckstanzwerkzeug

Matriz multifuncional
Wykrojnik wielofunkcyjny
Punzonatrice multifunzionale

Geleide matrijs
Matrice guidée
Punch tool
Stanzwerkzeug

Matriz
Wykrojnik
Punzonatrice

Handmatig gereedschap
Outillage manuel
Manual tools
Handwerkzeuge

Util manual
Narzedzie reczne
Dime

Freessjabloon
Calibre de fraisage
Stencil plate for milling head
Fräseschablone

Plantilla para copiadora
Szablon do frezarki
Maschera per pantografo

Enkelkopse freesmachine
Frais. à copier à une broche
Copy router 1 spindle
Einspindel-Kopierfräse

Copiadora de un cabezal
Frezarka z jedna glowica
Pantografo di copia a 1 mandrino
1 mandrino

Frees- en boormachine
Fraiseuse et foreuse
Router and drilling machine
Fräse- und Bohrgerät

Copiadora taladradora
Frezarka z wiertarka
Centro dilavoro

Bewerkingscentrum
Centre d'usinage
Machining center
Bearbeitungszentrum

Centre de mecanizado
Centrum obrodcze
Centro di lavorno

Hydropneumatische pers
Presse hydropneumatique
Hydropneumatic press
Hydropneumatische Presse

Prensa neumática
Prasa hydropneumatyczna
Pressa idropneumatica

Zaagmachine
Tronçonneuse
Sawing machine
Kreissäge

Maquina de corte
Pila do ciec przestrzennych
Macchina per taglio

Hoekenpers
Sertisseuse
Crimper
Eckverbindungsmaschine

Ensambladora
Zaciskarka narozy
Cianfrinatrice

Handmatrijs
Matrice manuelle
Manual punch tool
Handstanzwerkzeug

Prensa manual
Wykrojnik reczny
Punzonatrice manuale

Gereedschap voor lijminjectie
Outillage pour encollage
Tool for injection
Werkzeug fuer Klebeinjektion

Util para inyeccion
Narzedzie do wtrysku kleju
Utensile colla

Gereedschap voor krukken
Outillage pour cremones
Tool for handles
Werkzeug fuer Handhebel

Util para manetas
Narzedzie do klamek
Utensile per maniglie

Gereedschap voor sluitlatten
Outillage pour tringles
Tool for linkbars
Werkzeug fuer Schubstange

Util para barras union
Narzedzie do listew sterujacych okuciami
Utensile per barre di collegamento

Gereedschap voor T-verbindingen
Outillage pour connections-T
Tool for T-connections
Werkzeug fuer T-Verbindungen

Util para topes de union
Narzedzie do polaczen Teowych
Utensile per travesi

Klemblokken
Blocs de serrage
Clamping blocks
Spannbacken

Bloques de presión
Bloki zaciskowe
Blocchetti di supporto

Gereedschap voor ontwatering buitenkaders
Outillage pour drainage dormants
Tool for drainage outer frames
Werkzeug fuer Entwaesserung Blendrahmen

Util drenaje marco
Narzedzie do drenazy oscieznic
Utensile per drenaggio telaio

Gereedschap voor hoekverbinding
Outillage pour connection d'equerre
Tool for corner connection
Werkzeug fuer Eckverbindung

Util union esquina
Narzedzie do polaczen narozynych
Utensile per connessioni d'angolo

Gereedschap voor montage
Outillage pour montage
Tool for assembly
Werkzeug für Montage

Util para colocacion
Narzedzie do montazu
Utensile assemblaggio

Gereedschap voor deursluiter
Outillage pour fermeture porte
Tool for door closer
Werkzeug für Türschliesser

Util para cierrapuertas
Narzedzie do samozamykacza drzwiowego
Utensile chiu di porta

Gereedschap voor scharnieren
Outillage pour charnieres
Tool for hinges
Werkzeug für Bänder

Util para bisagras
Narzedzie do zawiasy
Utensile cerniere

Gereedschap voor sloten
Outillage pour fermetures
Tool for locks
Werkzeug für Schlösser

Util para cerraduras
Narzedzie do zamka
Utensile serrature

Gereedschap voor wisselprofielen
Outillage pour chicanes
Tool for sections
Werkzeug für Wechselprofile

Util para encuentros centrales
Narzedzie do przekrojow
Utensile chicanes

Gereedschap voor beglazing
Outillage pour vitrage
Tool for glazing
Werkzeug für Verglasung

Util para acristalamiento
Narzedzie do przeszklen
Utensile vetro

Gereedschap voor diverse toepassingen
Outillage pour applications divers
Tool for miscellaneous applications
Werkzeug für diverse Anwendungen

Utiles para varias aplicaciones
Narzedzie do montazu elementow uzupelniajacych
Utensile vari

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Gereedschap voor dichtingen
Outillage pour joints
Tool for gaskets
Werkzeug für Dichtungen

Util para juntas
Narzedzie do uszczelki
Utensile guarnizioni

Gereedschap voor bevestiging wielen
Outillage pour fixation des roulettes
Tool for fixation rollers
Werkzeug für Befestigung Laufräder

Util para fijación de ruletas
Narzedzie do montazu wozkow
Utensile carrelli

Gereedschap voor ontwatering vleugels
Outillage pour drainage ouvrants
Tool for drainage vents
Werkzeug für Entwässerung Flügel

Util para drenaje hoja
Narzedzie do drenazu skrzydla
Utensile drenaggio anta

Uitfrezing voor inbouw bovenspeun in kozijn
Fraisage pour encastrement gond supérieur dans la fenêtre
Milling for building in upper pivot in window
Ausfräsung für Einbau eines oberen Lagers im Rahmen

Fresado para pivotante en marco superior
Frez do montazu gornego sworznia w oknie
Lavorazioni super. finestra pivottante

Uitfrezing voor inbouw vloerspeun in vleugel
Fraisage pour encastrement gond inférieur dans l'ouvrant
Milling for building in floor pivot in vent
Ausfräsung für Einbau eines Bodenlagers im Flügel

Fresado para pivotante en hoja inferior
Frez do montazu dolnego sworznia w skrzydle
Lavorazioni infer. finestra pivottante

Uitfrezing voor inbouw bovenspeun in vleugel
Fraisage pour encastrement gond supérieur dans l'ouvrant
Milling for building in upper pivot in vent
Ausfräsung für Einbau eines oberen Lagers im Flügel

Fresado para pivotante en hoja superior
Frez do montazu gornego sworznia w skrzydle
Lavorazione super. finestra pivottante

Monteertafel
Table de montage
Assembly bench
Montagetisch

Banco de montaje
Stol montazowy
Banco montaggio

Elektrische aansluiting
Fixation électrique
Electric connection
Elektrisches Anschluss

Conexión eléctrica
Polaczenie elektryczne
Connessione elettrica

Compressor
Compresseur
Compressor
Kompressor

Compresor
Kompresor
Compressore

Kogel Dr. Hahn
Bille Dr. Hahn
Ball Dr. Hahn
Kugel Dr. Hahn

Bola Dr. Hahn
Kulka Dr. Hahn
-

Mechanische aansluiting
Fixation mecanique
Mechanical connection
Mechanischer Anschluss

Conexión mecánica
Polaczenie mechaniczne
Fissaggio meccanico

Pneumatische aandrijving
Propulsion pneumatic
Pneumatic drive
Pneumatische Antrieb

Destornillador neumatico
Pneumatyczny naped
Cilindro pneumatica

Ponsunit
Unité d'étamper
Punch unit
Stanzeinheit

Punzon
Wykrojnik
Unita punzonatrice

Land
Pays
Country
Land

Pais
Kraj
Nazione

Min. profiellengte
Longueur min. de profilé
Min. length of profile
Min. Profillänge

Longitud mínima del perfil
Minimalna dlugosc profilu
Lunghezza minima profilo

Max. profiellengte
Longueur max. de profilé
Max. length of profile
Max. Profillänge

Longitud máxima del perfil
Maksymalna dlugosc profilu
Lunghezza max profilo

Max. profielhoogte
Hauteur max. de profilé
Max. height of profiles
Max. Profilhöhe

Altura máxima del perfil
Maksymalna wysokosc profilu
Max altezza

Max. horizontale beweging
Movement max. horizontale
Max. horizontal movement
Max. horizontale Versetzung

Movimiento horizontal máximo
Maksymalny ruch poziomy
Spostamento orizz. max

Horizontaal hoekbereik
Intervalle d'équerre horizontale
Horizontal corner range
Eckbereich Horizontal

Rango de corte a inglete horizontal
Zakres katow poziomych
Dimensione taglio orizz.

Verticaal hoekbereik
Intervalle d'équerre verticale
Vertical corner range
Eckbereich Vertikal

Rango de corte a inglete vertical
Zakres katow pionowych
Dimensione taglio vert.

Motor
Moteur
Motor
Antrieb

Motor
Silownik napedowy
Motore

Gewicht
Poids
Weight
Gewicht

Pesos
Ciezar
Peso

Max. toerental
Vitesse d'axe max.
Max. spindle speed
Max. Drehzahl

Velocidad de sierra
Maksymalna predkosc obrotowa
Velocita max lama

SYMBOLENLIJST
LISTE DES SYMBOLES
LIST OF SYMBOLS
ZEICHENERKLAERUNG

B

Reynaers Aluminium

Algemene informatie systemen
Généralités séries
General Information System
Allgemeine Information System

VERWERKINGSVOORSCHRIFTEN

I. ALGEMEEN

Zie catalogus “1.Algemene informatie” (089.C01E.00 editie 11/2004)

II. VERWERKINGSVOORSCHRIFTEN ES 45-Pa

II.1 CONSTRUCTIEVOORSCHRIFTEN

Om blijvend een perfect eindproduct te garanderen, dienen tijdens de verwerking bepaalde regels in acht genomen te worden.

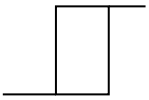
II.1.1 Verspanende bewerkingen

Onder verspanende bewerkingen wordt verstaan: alle mechanische bewerkingen zoals zagen, frezen, boren, ponsen en knippen. Voor gelakte profielen is het essentieel dat de laklagen aan de randen niet loskomen tijdens deze bewerkingen. Het is daarom van groot belang voor de kwaliteit van de verbindingen dat:

- het verspanende gereedschap geschikt en voldoende scherp is.
- de machines goed afgeregeld zijn (bv. toerental).
- een regelmatige controle van het gereedschap gebeurt.
- het verspanende gereedschap correct en voldoende gesmeerd wordt:
  smeerstick (art. nr. 086.9191.--) voor zaagbladen
  snijmiddel (art. nr. 086.9175.--) voor ponsgereedschap
  of de door de machineleveranciers voorgeschreven koel- en smeermiddelen;
- de gepaste klemblokken worden gebruikt; (zie montagetekening “klemblokken zaagmachine”)
- de aan- en afvoertafel vrij zijn van spanen en verontreinigingen.
- eventuele koeling gebeurt met chemisch neutrale producten die de oppervlaktebehandeling niet aantasten.

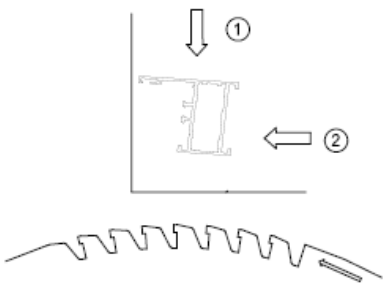
Positie/klemming van de profielen tijdens het zagen:
De positie van de profielen op de zaagtafel tijdens het verzagen is zeer belangrijk en is de basis om perfecte verstekken te bekomen na montage van raam of deur.
De grootste druk moet steeds op de «referentiezijde» van de profielen uitgeoefend worden.
De «referentiezijde» moet perfect horizontaal of verticaal op de zaagtafel geplaatst worden.
De klemblokken moeten gebruikt worden:

a. om te vermijden dat speling op de profielen de kwaliteit van het verstek zou beïnvloeden;
b. om te vermijden dat de profielen zouden kantelen op de tafel.

Referentiezijde ->  <- Referentiezijde

FOUTIEVE KLEMMING

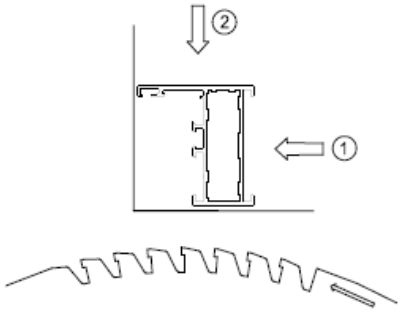
FOUT: De hoofdklemming drukt op de zichtkant van het te verzagen profiel en het profiel kantelt.
GEVOLG: Scheve zaagsnede - de buitenzijde is korter dan de binnenzijde.
RESULTAAT: Bij het persen van de hoeken is het verstek aan de binnenzijde keurig dicht en gaapt aan de buitenzijde.



B

JUISTE KLEMMING
De hoofdklemming drukt op de sponningzijde. De zichtkant ondergaat een kleinere, secundaire druk.
Het profiel heeft niet de neiging te kantelen of te vervormen tijdens het zagen, en het persen van de in verstek gezaagde profielen kan probleemloos verlopen.
Opmerking:
Het verdient aanbeveling om spanen die ontstaan tijdens het zagen af te zuigen.

Alle zaagsnedes die een verbinding vormen zoals: hoek- en T-verbindingen, dienen beschermd te worden met reynaprotector (art.nr. 086.9208.SY + 086.9225.--). Andere zaagsnedes zoals: glaslatten, klemlijsten,... dienen beschermd te worden met Reynastick (art.nr. 086.9600.06), alsook freessnedes, boorgaten, ponsgaten,…



II.1.2 Assemblage

Wij maken de volgende onderverdeling:
1. ontwatering en uitsparingen voor het beslag;
2. T-verbindingen;
3. hoekverbindingen;
    a) persen
    b) schroeven
4. dichtingen

1.2.1 Ontwatering, beluchting en uitsparingen voor het beslag
Stappen:
a. Aftekenen uitsparingen
b. Correct ponsen, boren of frezen
c. Beschermen van de bewerkte vlakken door:
    - ontbramen (indien noodzakelijk)
    - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer
    - ontvetten (Reynafinisch 60 art. nr. 086.9210.--)
    - aanbrengen van de Reynastick (art.n° 086.9600.06.--);

Aandachtspunten bij de ontwatering:
Eventueel binnendringend water moet vlot en gecontroleerd kunnen afgevoerd worden en de druk in de binnenkamers
moet gelijk blijven aan die van de buitenlucht.
- Bij elk raam worden er ontwateringsopeningen voorzien met een maximale afstand tot de hoek van 250 mm .(voor specifieke ontwatering: zie montagetekeningen “*ontwatering*”):
    3 openingen tot raambreedte van 1000 mm
    4 openingen tot raambreedte van 1500 mm
    enz... opgaand per 500 mm.
    Per raamvak dienen min 2 ontwateringopeningen voorzien te worden!
- Steeds op het laagste punt van de glassponning afwateren
- De minimale oppervlakte van deze ontwateringopeningen bedraagt 50 mm2per opening, hetzij een ronde opening van minimum 8 mm diameter, hetzij langwerpige openingen van minimaal 5 mm bij 15 mm.
- Ontwateringsgaten die aan de buitenzijde van het raam zichtbaar zijn, worden afgedekt met kunststofkapjes, bij vaste ramen wordt steeds het afvoerkapje met klep (069.6830.04) toegepast.
- Alle raamtypes moeten voorzien zijn van een ontwateringsysteem in de onderregels en/of de horizontale T-profielen.
- Bij vaste ramen dienen beide paddenstoelribben plaatselijk 8mm weggenomen te worden, dit voor het infiltrerend water te kunnen draineren.
- Bij elk raam, met uitzondering van vaste ramen al dan niet voorzien van horizontale of verticale T-profielen, worden er ontluchtingsopeningen voorzien (zie montagetekening “decompressie”).
  De functie hiervan is de drukegalisatie rond de beglazing te waarborgen.
- Bij een opengaand raam wordt aan de zijkant bovenaan van de vleugel wordt steeds minstens 1 opening van minimum 5 mm geboord.

1.2.2 T-verbindingen

Stappen (zie montagetekening "*T-verbinding*"):

a. Correct zagen T-profiel
b. Ponsen of boren van T-profiel (∅ 12mm: binnenschaal; ∅ 3.5mm: buitenschaal)
c. Uitravelen T-profiel (hoogte 22 mm)
d. Beschermen van de zaagsnedes en bewerkte vlakken door:
   - ontbramen (indien noodzakelijk)
   - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
   - ontvetten (Reynafinish 60 art. nr. 086.9210.--)
   - aanbrengen van Reynaprotector (art. nr. 086.9208.SY + 086.9225.--) op zaagsnedes en Reynastick
   - (art.nr. 086.9600.06) op de freessnedes.
e. Afdichten van T-profiel door aanbrengen van een neutraal, elastisch dichtingsmiddel:
   - op de zaagsnedes;
   - op de bevestigingsgaten.
f. Afdichten van zone onder T-profiel op het kaderprofiel, met uitzondering van horizontale T-stijlen bij vaste ramen, door plaatsen van afdichtingselementen of aanbrengen van een neutraal, elastisch dichtingsmiddel of Reynaprotector.
   (art. nr. 086.9208.SY). Deze dienen volledig waterdicht uitgevoerd te worden.

Opmerking:
Uitzonderingen hierop om drukegalisatie te bekomen bij vaste panelen zijn toegelaten op voorwaarde dat er een gecontroleerde ontwatering plaatsvindt.

g. Verbinding tot stand brengen: de T-verbinder wordt gepositioneerd op centerlijn, T-profiel wordt hierover aangebracht, T-verbinder wordt vastgeschroefd.
h. Aanbrengen en vastzetten van steunhoeken (zie montagetekening "steunhoek")
i. De samengevoegde elementen dienen enkel aan de zichtvlakken gereinigd te worden van lijmresten en dit uitsluitend met een niet-agressief middel (Reynafinish 60 art. nr. 086.9210.--).

1.2.3 Hoekverbindingen

1.2.3.1. Persen

Stappen (zie montagetekening "hoekverbinding pershoek"):

*optie A: lijminjectie na persen
**optie B: lijminjectie voor persen

a. Correct zagen
b. * aanbrengen van lijminjectiegaten (∅3.5/4mm) (zie montagetekening "lijminjectie")
c. Beschermen en afdichten van de zaagsnedes en bewerkte vlakken door:
   - ontbramen (indien noodzakelijk);
   - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
d. **Verlijmen in profielkamer: aanbrengen van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
e. ontvetten (Reynafinish 60 art.nr. 086.9210.--)
f. Aanbrengen van Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) op de zaagsnedes en Reynastick (art.nr. 086.9600.06) op de freessnedes.
g. Aanbrengen pershoeken en vulhoeken
h. afdichten op de zaagsnedes door middel van een neutraal, elastisch dichtingsmiddel
i. Verbinding tot stand brengen en persen (zie montagetekening "hoekenpers")
j. * lijminjectie ter hoogte van voorziene injectiegaten door middel van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
k. De samengevoegde elementen dienen enkel aan de zichtvlakken gereinigd te worden van lijmresten en dit uitsluitend met een niet-agressief middel (Reynafinish 60 art. nr. 086.9210.--).

1.2.3.2 Schroeven

Stappen (zie montagetekening "*hoekverbinding schroefhoek*"):

*optie A: lijminjectie na schroeven
**optie B: lijminjectie voor schroeven

a. Correct zagen
b. * Aanbrengen van schroefgaten
c. Beschermen en afdichten van de zaagsnedes en bewerkte vlakken door:
   - ontbramen (indien noodzakelijk);
   - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
   - ontvetten (Reynafinish 60 art.nr. 086.9210.--);
d. **Verlijmen in profielkamer: aanbrengen van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
e. Aanbrengen van Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) op de zaagsnedes en Reynastick (art.nr. 086.9600.06) op de freessnedes.
f. Aanbrengen schroefhoeken en vulhoeken

g. Verbinding tot stand brengen en schroeven (inbussleutel 4) en vernagelen
h. * lijminjectie ter hoogte van voorziene injectiegaten door middel van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
i. De samengevoegde elementen dienen enkel aan de zichtvlakken gereinigd te worden van lijmresten en dit uitsluitend met een niet-agressief middel (Reynafinish 60 art. nr. 086.9210.--).

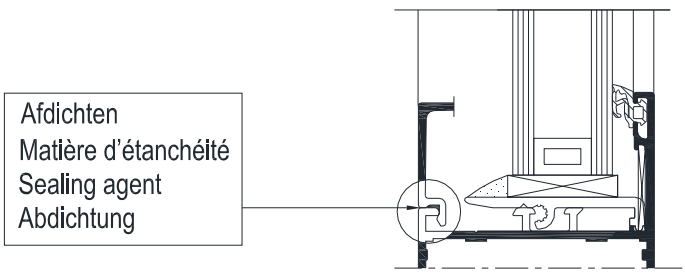
1.2.4 Dichtingen

Alle dichtingsrubbers zijn van weer- en verouderingsbestendig EPDM. De verwerking ervan dient zorgvuldig te gebeuren, aangezien hiervan de dichtheid van het venster afhangt.

a. Het aanbrengen van de middendichting
Stappen: (zie montagetekening “dichting”)
1. Correct versnijden: het versnijden van de middendichting dient met een speciale schaar (art.nr. 090.0121.00) te gebeuren.
   Benodigde overlengte (ca 10 mm per meter) dient voorzien te worden.
2. Aanbrengen dichting: de dichtingen worden aangebracht in de daarvoor voorziene groeven van de profielen. De overlengte wordt lichtjes opgestuikt om krimp op te vangen.
   Moeilijkheden bij het inbrengen, kunnen opgevangen worden met siliconenspray (art.nr. 086.9551.--).
3. Verlijmen (afdichten): de verstekken dienen verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--). Doordat de verbinding elastisch blijft, sluit de dichting ook in de hoeken perfect aan.

b. Het aanbrengen van de akoestische dichting
1. Stappen: (zie montagetekening “*dichting*”)
   Correct versnijden: het versnijden van de akoestische dichting dient met een speciale schaar (art.nr. 090.0121.UN) te gebeuren. Deze dichting dient recht versneden te worden en door te lopen in de hoeken (kleine insnijding in de hoeken zorgen voor een vlotte buiging).
   Benodigde overlengte (ca 10 mm per meter) dient voorzien te worden.
2. Aanbrengen dichting: de dichtingen worden aangebracht in de daarvoor voorziene groeven van de profielen. De overlengte wordt lichtjes opgestuikt om krimp op te vangen.
   Moeilijkheden bij het inbrengen kunnen opgevangen worden met siliconenspray (art.nr. 086.9551.--).
   Verlijmen (afdichten): de snedes dienen verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--).
3. Ter hoogte van de scharnieren moet deze dichting onderbroken worden volgens de richtlijnen verderop in de catalogus ingesneden.
4. Verlijmen (afdichten): de snedes dienen verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--).

c. Het aanbrengen van de beglazingsdichtingen
Stappen: (zie montagetekening “*dichting*”)
1. Correct versnijden: het versnijden van de beglazingsdichting dient met een speciale schaar (art.nr. 090.0121.00) te gebeuren. De dichting kan naargelang de soort profielverbinding in verstek of recht versneden worden. Benodigde overlengte (ca 10 mm per meter) dient voorzien te worden.
2. Aanbrengen dichting: de dichtingen worden aangebracht in de daarvoor voorziene groeven van de profielen. De overlengte wordt lichtjes opgestuikt om krimp op te vangen.
   Moeilijkheden bij het inbrengen kunnen opgevangen worden met siliconenspray (art.nr. 086.9551.--).
3. Verlijmen (afdichten): in de hoeken dient de beglazingsdichting verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--). Doordat de verbinding elastisch blijft, sluit de dichting ook in de hoeken perfect aan.
4. Bij vaste ramen dient een extra elastische afdichting aangebracht te worden tussen de onderste glaslat en het raamprofiel, welke links en rechts 25mm dienen op te lopen.



II.2 MONTAGEVOORSCHRIFTEN

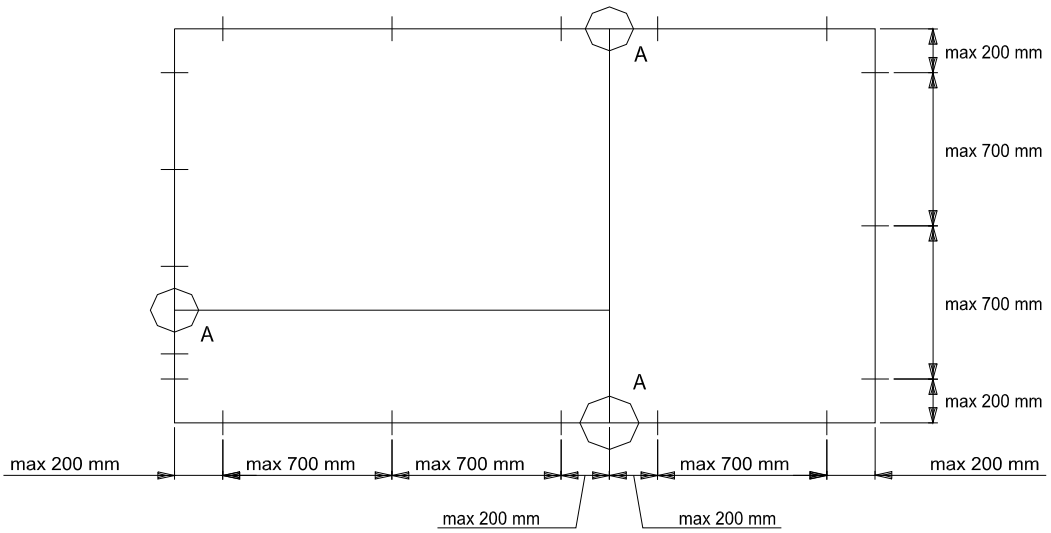
II.2.1 Stockage

De stockage van onafgewerkte of afgewerkte elementen dient steeds in een droge, vorstvrije ruimte te gebeuren

II.2.2 Inbouw in de ruwbouw

De bevestiging aan de ruwbouw gebeurt ofwel rechtstreeks doorheen de profielen met bijvoorbeeld schroeven en pluggen, ofwel met behulp van bevestigingsankers.

- De bevestigingen mogen niet minder dan 40 mm van de wand van de ruwbouw worden aangebracht.
- De verankering mag geenszins het draagvermogen van de aangrenzende bouwonderdelen beïnvloeden.
- Alle verankeringen, voor zover niet uit aluminium of roestvrij staal, dienen afdoende tegen corrosie te zijn beschermd en mogen zelf ook geen aantasting van het aluminium veroorzaken.
- Bij de plaatsing van de ramen worden er voldoende bevestigingen voorzien:



Er dienen aan alle zijden minstens 2 bevestigingen aangebracht te worden met een maximale afstand tot de hoek van 200 mm.

- De afstand van de bevestigingen onderling bedraagt maximum 700 mm.
- Op de plaatsen waar een tussenregel of tussenstijl op de zijstijl, boven- of onderregel aansluit, moet de verankering maximum op 200 mm naast de stijl- of regelaansluiting worden aangebracht (A). Hierdoor wordt bereikt dat de tussenregel en de tussenstijl een lengteverandering (ten gevolge van temperatuurverandering) zonder schade kunnen ondergaan.
- Aan te raden is de bevestigingen te positioneren ter hoogte van ieder scharnier- en sluitpunt.

Opmerking:
De verankeringen dienen dusdanig aangebracht te worden dat ze eventuele zettingen van het raam kunnen opvangen.

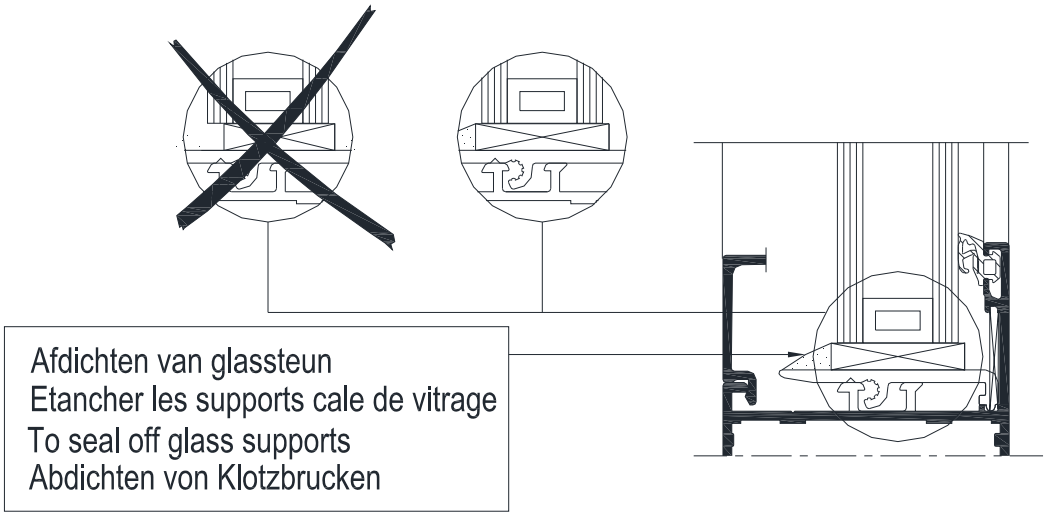
II.2.2 Inbouw van het beslag

Keuze van bevestigingspunten, aantal sluitpunten, aantal scharnieren, max. vleugelgewicht, max. vleugelafmetingen, toegepast vleugelprofiel e.a. dient te gebeuren volgens de richtlijnen van de systeemleverancier en de beslagfabrikant.
Glijdende en bewegende delen zijn van neutraal vet te voorzien.
Bij montage controleren of het beslag soepel en zonder hapering te bedienen is.

II.3 BEGLAZING

Al onze systemen zijn ontworpen voor beglazing met EPDM-rubbers of neutrale siliconenkit. Bij siliconenbeglazing dient een rugvulling aangebracht te worden om een correcte opening tussen het glaspaneel en het aluminiumkader te creëren. Wij raden u aan onze speciaal ontwikkelde beglazingsrubbers te gebruiken. De beglazing hiermee zal vlotter en betrouwbaar verlopen, duurzamer zijn in de tijd, en beschadigde glaspanelen zullen gemakkelijker vervangen kunnen worden.

Bij de beglazing dient rekening te worden gehouden met volgende punten:
- Door opstuiken van de rubber wordt vermeden dat er daarna openingen ontstaan in de hoeken.
- Ontwateringsgaten dienen geboord te worden om waterophoping te vermijden.
  Dit is ook noodzakelijk bij siliconenbeglazing (zie montagetekening “ontwatering”).
- Voor het plaatsen van het glas dient rekening te worden gehouden met een speling van minimum 12 mm op het aluminiumraam (6 mm per zijde).
- De glassteunen die zich aan de onderzijde van het glaspaneel bevinden, dienen afgedicht te worden (zie tekening hieronder)



Bevestiging van de beglazing
Geen enkel glaspaneel mag rechtstreeks in contact komen met aluminium zonder tussenplaatsing van beglazingsblokjes en een rubberdichting.
Door het opspieën van het glas vermijdt men niet enkel dit contact, maar wordt eveneens een juiste plaatsing in de ramen bekomen en het eigen gewicht van het glas wordt op de juiste wijze overgebracht naar de scharnieren (of wielen) teneinde een eventuele vervorming van de raamvleugel te voorkomen.
Om het vastzetten te vereenvoudigen, beschikken wij over glassteunen die gebruikt worden om de bodem van de sponning te effenen. Hierop kan men dan rechthoekige beglazingsblokjes plaatsen.

Het aantal en de plaats van de beglazingsblokjes wordt bepaald door de norm STS 38.

Een overzicht:

In de beglazingsblokjes onderscheiden wij 2 types:

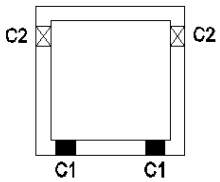
Steunblokjes ■

Stelblokjes ☒

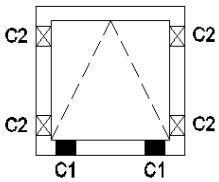
C1: steunblokjes
Deze steunblokjes brengen het gewicht van het glas over op de vleugel of het raamkozijn. Hun goede plaatsing is van groot belang voor de werking van de ramen.

C2: stelblokjes
Deze blokjes verzekeren de positionering van het glas tussen de sponning. Ze worden aangebracht zonder forceren.
Hun doel is elke beweging van het glas in zijn vlak uit te schakelen.

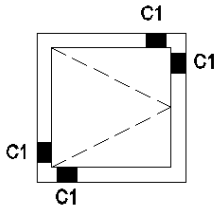
De volgende schetsen geven de plaatsing van de beglazingsblokjes in de verschillende raamtypes aan.



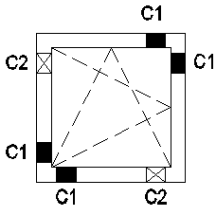
vast raam



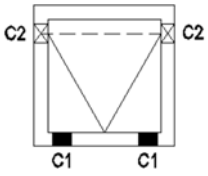
valraam



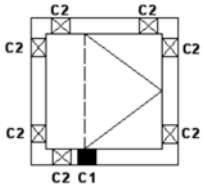
draairaam



draaikipraam



uitzetzakraam



draaischuimraam

Bij vaste beglazing brengt men de ondersteuningen aan in de hoeken van de onderregel om te beletten dat deze gaat doorbuigen onder het gewicht van het glas (zie schets vast raam).

Bij opendraaiende ramen wordt het glas diagonaal opgespied van de scharnieronderhoek naar de tegenoverliggende hoek bovenaan (zie schets draairaam). Na dat de raamvleugel op deze wijze is gesteld met de juiste overslag kunnen de twee andere hoeken opgevuld worden alvorens de glaslatten aangebracht worden. Bij twijfel of de juiste overslag is gesteld, raden wij u aan twee fijne potloodlijnen op de bovenhoek die diagonaal ondersteund is aan te brengen. Wanneer het raam geopend is, ziet men duidelijk deze lijnen en kan de overslag nagemeten worden.

VERWERKINGSVOORSCHRIFTEN

I. ALGEMEEN

Zie catalogus “1.Algemene informatie” (089.C01E.00 editie 11/2004)

II. VERWERKINGSVOORSCHRIFTEN ES 45-Pa

II.1 CONSTRUCTIEVOORSCHRIFTEN

Om blijvend een perfect eindproduct te garanderen, dienen tijdens de verwerking bepaalde regels in acht genomen te worden.

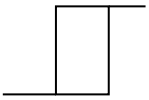
II.1.1 Verspanende bewerkingen

Onder verspanende bewerkingen wordt verstaan: alle mechanische bewerkingen zoals zagen, frezen, boren, ponsen en knippen. Voor gelakte profielen is het essentieel dat de laklagen aan de randen niet loskomen tijdens deze bewerkingen. Het is daarom van groot belang voor de kwaliteit van de verbindingen dat:

- het verspanende gereedschap geschikt en voldoende scherp is.
- de machines goed afgeregeld zijn (bv. toerental).
- een regelmatige controle van het gereedschap gebeurt.
- het verspanende gereedschap correct en voldoende gesmeerd wordt:
  smeerstick (art. nr. 086.9191.--) voor zaagbladen
  snijmiddel (art. nr. 086.9175.--) voor ponsgereedschap
  of de door de machineleveranciers voorgeschreven koel- en smeermiddelen;
- de gepaste klemblokken worden gebruikt; (zie montagetekening “klemblokken zaagmachine”)
- de aan- en afvoertafel vrij zijn van spanen en verontreinigingen.
- eventuele koeling gebeurt met chemisch neutrale producten die de oppervlaktebehandeling niet aantasten.

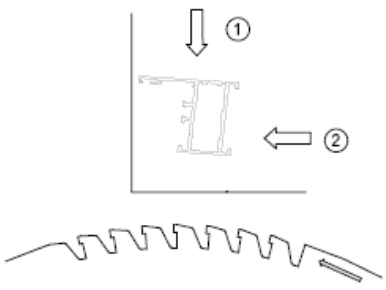
Positie/klemming van de profielen tijdens het zagen:
De positie van de profielen op de zaagtafel tijdens het verzagen is zeer belangrijk en is de basis om perfecte verstekken te bekomen na montage van raam of deur.
De grootste druk moet steeds op de «referentiezijde» van de profielen uitgeoefend worden.
De «referentiezijde» moet perfect horizontaal of verticaal op de zaagtafel geplaatst worden.
De klemblokken moeten gebruikt worden:

a. om te vermijden dat speling op de profielen de kwaliteit van het verstek zou beïnvloeden;
b. om te vermijden dat de profielen zouden kantelen op de tafel.

Referentiezijde ->  <- Referentiezijde

FOUTIEVE KLEMMING

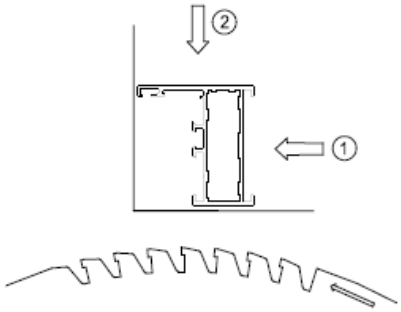
FOUT: De hoofdklemming drukt op de zichtkant van het te verzagen profiel en het profiel kantelt.
GEVOLG: Scheve zaagsnede - de buitenzijde is korter dan de binnenzijde.
RESULTAAT: Bij het persen van de hoeken is het verstek aan de binnenzijde keurig dicht en gaapt aan de buitenzijde.



B

JUISTE KLEMMING
De hoofdklemming drukt op de sponningzijde. De zichtkant ondergaat een kleinere, secundaire druk.
Het profiel heeft niet de neiging te kantelen of te vervormen tijdens het zagen, en het persen van de in verstek gezaagde profielen kan probleemloos verlopen.
Opmerking:
Het verdient aanbeveling om spanen die ontstaan tijdens het zagen af te zuigen.

Alle zaagsnedes die een verbinding vormen zoals: hoek- en T-verbindingen, dienen beschermd te worden met reynaprotector (art.nr. 086.9208.SY + 086.9225.--). Andere zaagsnedes zoals: glaslatten, klemlijsten,... dienen beschermd te worden met Reynastick (art.nr. 086.9600.06), alsook freessnedes, boorgaten, ponsgaten,…



II.1.2 Assemblage

Wij maken de volgende onderverdeling:
1. ontwatering en uitsparingen voor het beslag;
2. T-verbindingen;
3. hoekverbindingen;
    a) persen
    b) schroeven
4. dichtingen

1.2.1 Ontwatering, beluchting en uitsparingen voor het beslag
Stappen:
a. Aftekenen uitsparingen
b. Correct ponsen, boren of frezen
c. Beschermen van de bewerkte vlakken door:
    - ontbramen (indien noodzakelijk)
    - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer
    - ontvetten (Reynafinisch 60 art. nr. 086.9210.--)
    - aanbrengen van de Reynastick (art.n° 086.9600.06.--);

Aandachtspunten bij de ontwatering:
Eventueel binnendringend water moet vlot en gecontroleerd kunnen afgevoerd worden en de druk in de binnenkamers
moet gelijk blijven aan die van de buitenlucht.
- Bij elk raam worden er ontwateringsopeningen voorzien met een maximale afstand tot de hoek van 250 mm .(voor specifieke ontwatering: zie montagetekeningen “*ontwatering*”):
    3 openingen tot raambreedte van 1000 mm
    4 openingen tot raambreedte van 1500 mm
    enz... opgaand per 500 mm.
    Per raamvak dienen min 2 ontwateringopeningen voorzien te worden!
- Steeds op het laagste punt van de glassponning afwateren
- De minimale oppervlakte van deze ontwateringopeningen bedraagt 50 mm2per opening, hetzij een ronde opening van minimum 8 mm diameter, hetzij langwerpige openingen van minimaal 5 mm bij 15 mm.
- Ontwateringsgaten die aan de buitenzijde van het raam zichtbaar zijn, worden afgedekt met kunststofkapjes, bij vaste ramen wordt steeds het afvoerkapje met klep (069.6830.04) toegepast.
- Alle raamtypes moeten voorzien zijn van een ontwateringsysteem in de onderregels en/of de horizontale T-profielen.
- Bij vaste ramen dienen beide paddenstoelribben plaatselijk 8mm weggenomen te worden, dit voor het infiltrerend water te kunnen draineren.
- Bij elk raam, met uitzondering van vaste ramen al dan niet voorzien van horizontale of verticale T-profielen, worden er ontluchtingsopeningen voorzien (zie montagetekening “decompressie”).
  De functie hiervan is de drukegalisatie rond de beglazing te waarborgen.
- Bij een opengaand raam wordt aan de zijkant bovenaan van de vleugel wordt steeds minstens 1 opening van minimum 5 mm geboord.

1.2.2 T-verbindingen

Stappen (zie montagetekening "*T-verbinding*"):

a. Correct zagen T-profiel
b. Ponsen of boren van T-profiel (∅ 12mm: binnenschaal; ∅ 3.5mm: buitenschaal)
c. Uitravelen T-profiel (hoogte 22 mm)
d. Beschermen van de zaagsnedes en bewerkte vlakken door:
   - ontbramen (indien noodzakelijk)
   - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
   - ontvetten (Reynafinish 60 art. nr. 086.9210.--)
   - aanbrengen van Reynaprotector (art. nr. 086.9208.SY + 086.9225.--) op zaagsnedes en Reynastick
   - (art.nr. 086.9600.06) op de freessnedes.
e. Afdichten van T-profiel door aanbrengen van een neutraal, elastisch dichtingsmiddel:
   - op de zaagsnedes;
   - op de bevestigingsgaten.
f. Afdichten van zone onder T-profiel op het kaderprofiel, met uitzondering van horizontale T-stijlen bij vaste ramen, door plaatsen van afdichtingselementen of aanbrengen van een neutraal, elastisch dichtingsmiddel of Reynaprotector.
   (art. nr. 086.9208.SY). Deze dienen volledig waterdicht uitgevoerd te worden.

Opmerking:
Uitzonderingen hierop om drukegalisatie te bekomen bij vaste panelen zijn toegelaten op voorwaarde dat er een gecontroleerde ontwatering plaatsvindt.

g. Verbinding tot stand brengen: de T-verbinder wordt gepositioneerd op centerlijn, T-profiel wordt hierover aangebracht, T-verbinder wordt vastgeschroefd.
h. Aanbrengen en vastzetten van steunhoeken (zie montagetekening "steunhoek")
i. De samengevoegde elementen dienen enkel aan de zichtvlakken gereinigd te worden van lijmresten en dit uitsluitend met een niet-agressief middel (Reynafinish 60 art. nr. 086.9210.--).

1.2.3 Hoekverbindingen

1.2.3.1. Persen

Stappen (zie montagetekening "hoekverbinding pershoek"):

*optie A: lijminjectie na persen
**optie B: lijminjectie voor persen

a. Correct zagen
b. * aanbrengen van lijminjectiegaten (∅3.5/4mm) (zie montagetekening "lijminjectie")
c. Beschermen en afdichten van de zaagsnedes en bewerkte vlakken door:
   - ontbramen (indien noodzakelijk);
   - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
d. **Verlijmen in profielkamer: aanbrengen van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
e. ontvetten (Reynafinish 60 art.nr. 086.9210.--)
f. Aanbrengen van Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) op de zaagsnedes en Reynastick (art.nr. 086.9600.06) op de freessnedes.
g. Aanbrengen pershoeken en vulhoeken
h. afdichten op de zaagsnedes door middel van een neutraal, elastisch dichtingsmiddel
i. Verbinding tot stand brengen en persen (zie montagetekening "hoekenpers")
j. * lijminjectie ter hoogte van voorziene injectiegaten door middel van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
k. De samengevoegde elementen dienen enkel aan de zichtvlakken gereinigd te worden van lijmresten en dit uitsluitend met een niet-agressief middel (Reynafinish 60 art. nr. 086.9210.--).

1.2.3.2 Schroeven

Stappen (zie montagetekening "*hoekverbinding schroefhoek*"):

*optie A: lijminjectie na schroeven
**optie B: lijminjectie voor schroeven

a. Correct zagen
b. * Aanbrengen van schroefgaten
c. Beschermen en afdichten van de zaagsnedes en bewerkte vlakken door:
   - ontbramen (indien noodzakelijk);
   - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
   - ontvetten (Reynafinish 60 art.nr. 086.9210.--);
d. **Verlijmen in profielkamer: aanbrengen van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
e. Aanbrengen van Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) op de zaagsnedes en Reynastick (art.nr. 086.9600.06) op de freessnedes.
f. Aanbrengen schroefhoeken en vulhoeken

g. Verbinding tot stand brengen en schroeven (inbussleutel 4) en vernagelen
h. * lijminjectie ter hoogte van voorziene injectiegaten door middel van een goedgekeurd dichtingslijm (tweecomponentenlijm art. nr. 084.9080.--)
i. De samengevoegde elementen dienen enkel aan de zichtvlakken gereinigd te worden van lijmresten en dit uitsluitend met een niet-agressief middel (Reynafinish 60 art. nr. 086.9210.--).

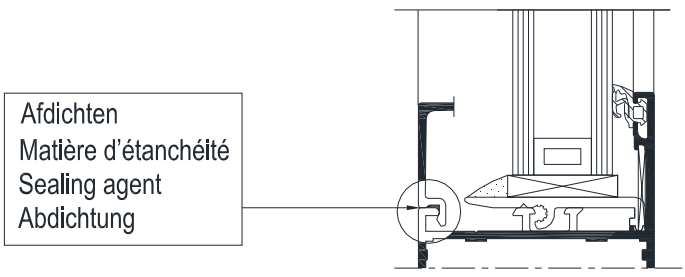
1.2.4 Dichtingen

Alle dichtingsrubbers zijn van weer- en verouderingsbestendig EPDM. De verwerking ervan dient zorgvuldig te gebeuren, aangezien hiervan de dichtheid van het venster afhangt.

a. Het aanbrengen van de middendichting
Stappen: (zie montagetekening “dichting”)
1. Correct versnijden: het versnijden van de middendichting dient met een speciale schaar (art.nr. 090.0121.00) te gebeuren.
   Benodigde overlengte (ca 10 mm per meter) dient voorzien te worden.
2. Aanbrengen dichting: de dichtingen worden aangebracht in de daarvoor voorziene groeven van de profielen. De overlengte wordt lichtjes opgestuikt om krimp op te vangen.
   Moeilijkheden bij het inbrengen, kunnen opgevangen worden met siliconenspray (art.nr. 086.9551.--).
3. Verlijmen (afdichten): de verstekken dienen verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--). Doordat de verbinding elastisch blijft, sluit de dichting ook in de hoeken perfect aan.

b. Het aanbrengen van de akoestische dichting
1. Stappen: (zie montagetekening “*dichting*”)
   Correct versnijden: het versnijden van de akoestische dichting dient met een speciale schaar (art.nr. 090.0121.UN) te gebeuren. Deze dichting dient recht versneden te worden en door te lopen in de hoeken (kleine insnijding in de hoeken zorgen voor een vlotte buiging).
   Benodigde overlengte (ca 10 mm per meter) dient voorzien te worden.
2. Aanbrengen dichting: de dichtingen worden aangebracht in de daarvoor voorziene groeven van de profielen. De overlengte wordt lichtjes opgestuikt om krimp op te vangen.
   Moeilijkheden bij het inbrengen kunnen opgevangen worden met siliconenspray (art.nr. 086.9551.--).
   Verlijmen (afdichten): de snedes dienen verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--).
3. Ter hoogte van de scharnieren moet deze dichting onderbroken worden volgens de richtlijnen verderop in de catalogus ingesneden.
4. Verlijmen (afdichten): de snedes dienen verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--).

c. Het aanbrengen van de beglazingsdichtingen
Stappen: (zie montagetekening “*dichting*”)
1. Correct versnijden: het versnijden van de beglazingsdichting dient met een speciale schaar (art.nr. 090.0121.00) te gebeuren. De dichting kan naargelang de soort profielverbinding in verstek of recht versneden worden. Benodigde overlengte (ca 10 mm per meter) dient voorzien te worden.
2. Aanbrengen dichting: de dichtingen worden aangebracht in de daarvoor voorziene groeven van de profielen. De overlengte wordt lichtjes opgestuikt om krimp op te vangen.
   Moeilijkheden bij het inbrengen kunnen opgevangen worden met siliconenspray (art.nr. 086.9551.--).
3. Verlijmen (afdichten): in de hoeken dient de beglazingsdichting verlijmd te worden met vulkaniseerlijm (art.nr. 084.9103.--). Doordat de verbinding elastisch blijft, sluit de dichting ook in de hoeken perfect aan.
4. Bij vaste ramen dient een extra elastische afdichting aangebracht te worden tussen de onderste glaslat en het raamprofiel, welke links en rechts 25mm dienen op te lopen.



II.2 MONTAGEVOORSCHRIFTEN

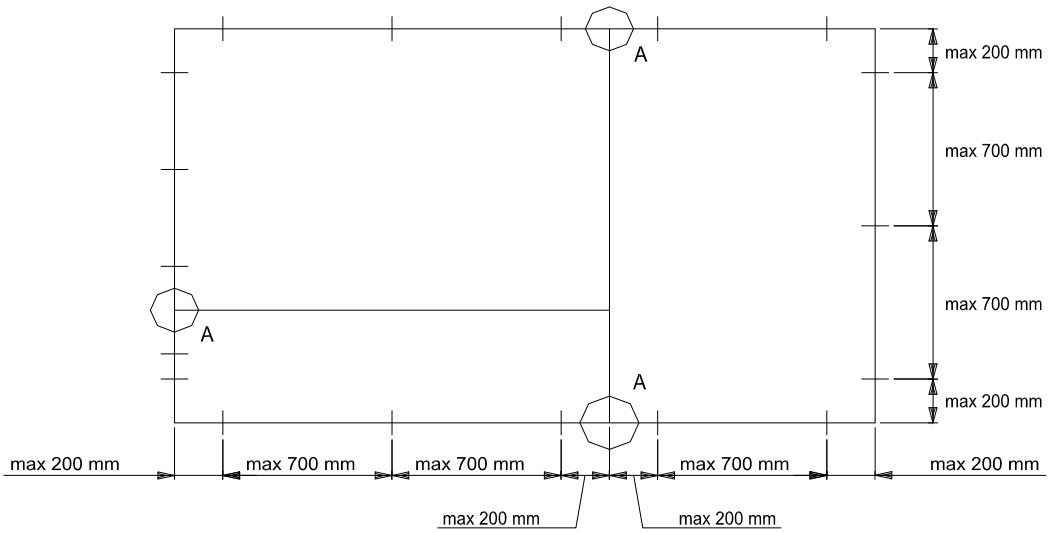
II.2.1 Stockage

De stockage van onafgewerkte of afgewerkte elementen dient steeds in een droge, vorstvrije ruimte te gebeuren

II.2.2 Inbouw in de ruwbouw

De bevestiging aan de ruwbouw gebeurt ofwel rechtstreeks doorheen de profielen met bijvoorbeeld schroeven en pluggen, ofwel met behulp van bevestigingsankers.

- De bevestigingen mogen niet minder dan 40 mm van de wand van de ruwbouw worden aangebracht.
- De verankering mag geenszins het draagvermogen van de aangrenzende bouwonderdelen beïnvloeden.
- Alle verankeringen, voor zover niet uit aluminium of roestvrij staal, dienen afdoende tegen corrosie te zijn beschermd en mogen zelf ook geen aantasting van het aluminium veroorzaken.
- Bij de plaatsing van de ramen worden er voldoende bevestigingen voorzien:



Er dienen aan alle zijden minstens 2 bevestigingen aangebracht te worden met een maximale afstand tot de hoek van 200 mm.

- De afstand van de bevestigingen onderling bedraagt maximum 700 mm.
- Op de plaatsen waar een tussenregel of tussenstijl op de zijstijl, boven- of onderregel aansluit, moet de verankering maximum op 200 mm naast de stijl- of regelaansluiting worden aangebracht (A). Hierdoor wordt bereikt dat de tussenregel en de tussenstijl een lengteverandering (ten gevolge van temperatuurverandering) zonder schade kunnen ondergaan.
- Aan te raden is de bevestigingen te positioneren ter hoogte van ieder scharnier- en sluitpunt.

Opmerking:
De verankeringen dienen dusdanig aangebracht te worden dat ze eventuele zettingen van het raam kunnen opvangen.

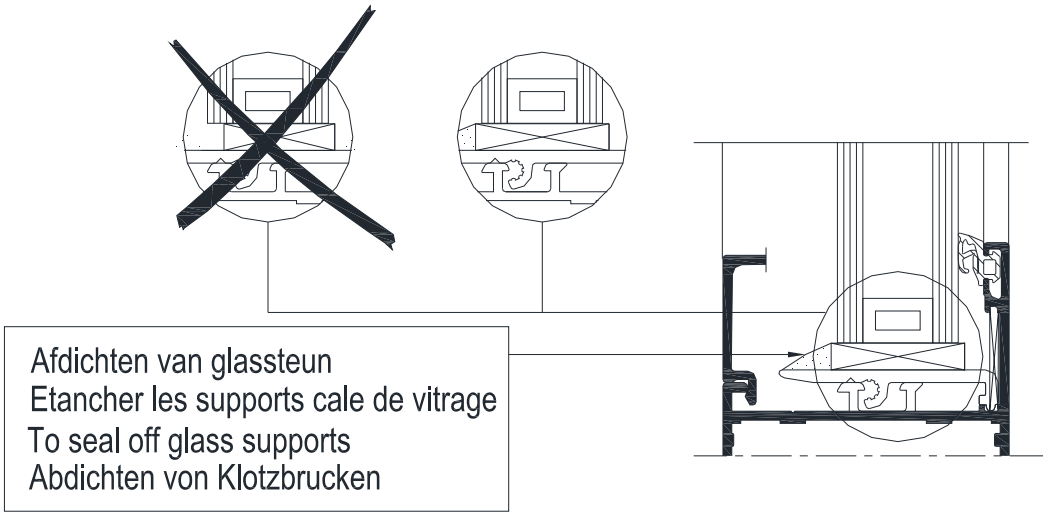
II.2.2 Inbouw van het beslag

Keuze van bevestigingspunten, aantal sluitpunten, aantal scharnieren, max. vleugelgewicht, max. vleugelafmetingen, toegepast vleugelprofiel e.a. dient te gebeuren volgens de richtlijnen van de systeemleverancier en de beslagfabrikant.
Glijdende en bewegende delen zijn van neutraal vet te voorzien.
Bij montage controleren of het beslag soepel en zonder hapering te bedienen is.

II.3 BEGLAZING

Al onze systemen zijn ontworpen voor beglazing met EPDM-rubbers of neutrale siliconenkit. Bij siliconenbeglazing dient een rugvulling aangebracht te worden om een correcte opening tussen het glaspaneel en het aluminiumkader te creëren. Wij raden u aan onze speciaal ontwikkelde beglazingsrubbers te gebruiken. De beglazing hiermee zal vlotter en betrouwbaar verlopen, duurzamer zijn in de tijd, en beschadigde glaspanelen zullen gemakkelijker vervangen kunnen worden.

Bij de beglazing dient rekening te worden gehouden met volgende punten:
- Door opstuiken van de rubber wordt vermeden dat er daarna openingen ontstaan in de hoeken.
- Ontwateringsgaten dienen geboord te worden om waterophoping te vermijden.
  Dit is ook noodzakelijk bij siliconenbeglazing (zie montagetekening “ontwatering”).
- Voor het plaatsen van het glas dient rekening te worden gehouden met een speling van minimum 12 mm op het aluminiumraam (6 mm per zijde).
- De glassteunen die zich aan de onderzijde van het glaspaneel bevinden, dienen afgedicht te worden (zie tekening hieronder)



Bevestiging van de beglazing
Geen enkel glaspaneel mag rechtstreeks in contact komen met aluminium zonder tussenplaatsing van beglazingsblokjes en een rubberdichting.
Door het opspieën van het glas vermijdt men niet enkel dit contact, maar wordt eveneens een juiste plaatsing in de ramen bekomen en het eigen gewicht van het glas wordt op de juiste wijze overgebracht naar de scharnieren (of wielen) teneinde een eventuele vervorming van de raamvleugel te voorkomen.
Om het vastzetten te vereenvoudigen, beschikken wij over glassteunen die gebruikt worden om de bodem van de sponning te effenen. Hierop kan men dan rechthoekige beglazingsblokjes plaatsen.

Het aantal en de plaats van de beglazingsblokjes wordt bepaald door de norm STS 38.

Een overzicht:

In de beglazingsblokjes onderscheiden wij 2 types:

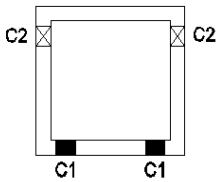
Steunblokjes ■

Stelblokjes ☒

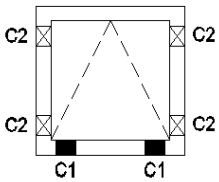
C1: steunblokjes
Deze steunblokjes brengen het gewicht van het glas over op de vleugel of het raamkozijn. Hun goede plaatsing is van groot belang voor de werking van de ramen.

C2: stelblokjes
Deze blokjes verzekeren de positionering van het glas tussen de sponning. Ze worden aangebracht zonder forceren.
Hun doel is elke beweging van het glas in zijn vlak uit te schakelen.

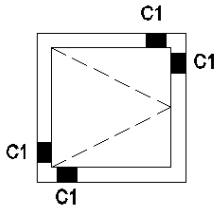
De volgende schetsen geven de plaatsing van de beglazingsblokjes in de verschillende raamtypes aan.



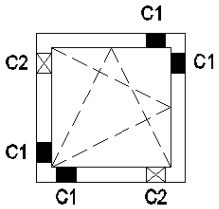
vast raam



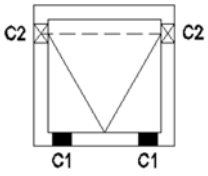
valraam



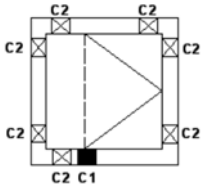
draairaam



draaikipraam



uitzetzakraam



draaischuimraam

Bij vaste beglazing brengt men de ondersteuningen aan in de hoeken van de onderregel om te beletten dat deze gaat doorbuigen onder het gewicht van het glas (zie schets vast raam).

Bij opendraaiende ramen wordt het glas diagonaal opgespied van de scharnieronderhoek naar de tegenoverliggende hoek bovenaan (zie schets draairaam). Na dat de raamvleugel op deze wijze is gesteld met de juiste overslag kunnen de twee andere hoeken opgevuld worden alvorens de glaslatten aangebracht worden. Bij twijfel of de juiste overslag is gesteld, raden wij u aan twee fijne potloodlijnen op de bovenhoek die diagonaal ondersteund is aan te brengen. Wanneer het raam geopend is, ziet men duidelijk deze lijnen en kan de overslag nagemeten worden.

RECOMMANDATIONS DE MISE EN OEUVRE

I. GENERAL

Voir catalogue “1. Informations générales” (089.C01E.00 édition 11/2004)

II. RECOMMANDATIONS DE MISE EN OEUVRE ES 45-Pa

II.1 RECOMMANDATIONS DE FABRICATION

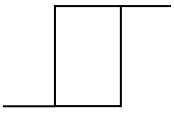
Afin de garantir un produit final parfait, certaines règles doivent être suivies pendant la fabrication.

II.1.1 Opérations d’usinage.

Par opérations d’usinage on entend: toutes les opérations mécaniques comme le tronçonnage, le fraisage, le forage, le poinçonnage et la découpe. Il est essentiel que la couche de laque des profilés laqués ne se détache pas sur les bords pendant ces opérations. Il est donc très important pour la qualité des assemblages que:

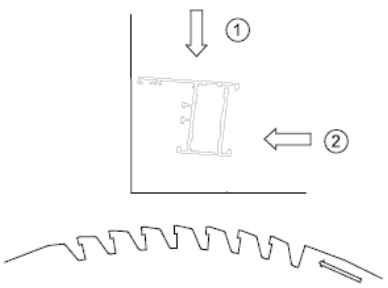
- les outils d’usinage soient adaptés et suffisamment aiguisés;
- les machines soient bien réglées (p.ex. régime);
- un contrôle régulier des outils ait lieu;
- les outils d’usinage soient correctement et suffisamment graissés:
  bâton lubrifiant (art.n° 086.9191.--) pour lames de scie;
  huile de coupe (art.n° 086.9175.--) pour outils de poinçonnage
  ou les réfrigérants et lubrifiants prescrits par les fournisseurs des machines;
- les mors de serrage adaptés soient utilisés (*voir détails de fabrication ‘blocs de serrage scie circulaire*’);
- la table d’aménée ou d’évacuation soit exempte de copeaux et de souillures;
- le refroidissement éventuel se fasse à l’aide de produits chimiquement neutres qui ne corrodent pas le traitement de surface.

Position/serrage des profilés pendant le tronçonnage:
La position des profilés sur la table de sciage pendant le tronçonnage est très importante et est la base pour obtenir des onglets parfaits après montage de la fenêtre ou de la porte.
La pression principale doit toujours être exercée sur la «face de référence» des profilés.
La «face de référence» doit être positionnée parfaitement horizontalement ou verticalement sur la table de sciage.
Les mors de serrage doivent être utilisés:
a.pour éviter que les tolérances sur les profilés influencent la qualité de l’onglet;
b.pour éviter que les profilés ne basculent sur la table.

Face de référence ->  <- Face de référence

MAUVAIS TRONCONNAGE

DEFAUT:	Le vérin principal presse sur la surface visible du profilé à tronçonner entraînant son décalage.
CONSEQUENCES:	Coupe d’onglet en biais, côtés extérieurs raccourcis par rapport aux côtés intérieurs.
RESULTAT:	Après sertissage, l’assemblage sur la face intérieure est correct, tandis qu’à l’extérieur l’onglet s’est ouvert.

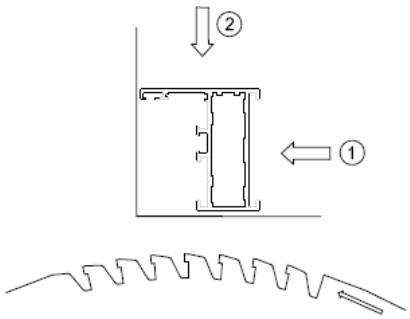


B

TRONCONNAGE CORRECT
Le vérin principal exerce sa pression sur la face de la feuillure.
La surface visible ne subit que la pression réduite du vérin secondaire.
Le profilé n'a pas tendance à se décaler ou à se déformer pendant la coupe et le sertissage des profilés sciés à onglet peut s'effectuer sans problèmes

Remarque:
Il est recommandé d'aspirer les copeaux pendant le tronçonnage.
Toutes les coupes des profilés qui forment une jonction comme les équerres d'assemblage angulaires et les jonctions-T doivent être protégées à l'aide de Reynaprotector (art.nr. 086.9208.SY + 086.9225.--). Toutes les autres coupes (comme parcloses, fixations, ...) doivent être protégées à l'aide de Reynastick (art.n°086.9600.06) ainsi que les fraisages, trous d'alésage, perforations, ...

B



II.1.2 Assemblage

Nous faisons la subdivision suivante:
1. Découpes pour les accessoires.
2. Assemblages T.
3. Raccords d'angle
    a. à sertir
    b. à visser

4. Joints.

1.2.1. Drainage, aération et découpes pour les accessoires
Etapes:
a. Marquer les découpes.
b. Poinçonnage, forage ou fraisage correct.
c. Protection des surfaces traitées par:
    - ébavurage (si nécessaire);
    - enlèvement des poussières et des copeaux sur les scies et dans la chambre du profilé.
    - dégraissage (Reynafinisch 60 art. nr. 086.9210.--);
    - application de Reynastick (art.n° 086.9600.06).
    -

Lors du drainage, il faut prêter attention aux points suivants:
Les eaux d'infiltration éventuelles doivent être évacués de façon rapide et contrôlée vers l'extérieur et il faut maintenir la chambre de décompression à la pression atmosphérique.
- Pour chaque fenêtre, des ouvertures de drainage sont prévues à une distance maximale de l'angle de 250 mm (en cas de drainage spécifique: voir détails de fabrication '*drainage*')

a. 3 ouvertures jusqu'à une largeur de fenêtre 1000 mm
b. 4 ouvertures jusqu'à une largeur de fenêtre 1500 mm
etc... une ouverture en plus par 500 mm supplémentaires en largeur. Pour chaque surface vitrée il faut prévoir 2 trous de drainage!

- Les ouvertures de drainage qui sont visibles de l'extérieur de la fenêtre doivent recevoir des capuchons en matière synthétique, chez des fenêtres fixes, le capuchon avec soupape (069.6830.04) est toujours utilisé.
- Les fenêtres, quel que soit leur type, doivent obligatoirement être drainées au niveau des traverses basses et intermédiaires.
- Chez des fenêtres fixes, les deux côtes en forme de T doivent être supprimés 8mm local, pour permettre le drainage de l'eau infiltrant.

- Chaque fenêtre, sauf les fenêtres fixes, prévus ou non des traverses horizontales ou verticales, doit être prévue de trous d'aération (voir détails de fabrication 'décompression').
  Sa fonction est de garantir l'égalisation de la pression autour du vitrage.
- Sur le haut du côté de l'ouvrant, on fore toujours au moins 1 ouverture de 5 mm de diamètre au minimum.

.

1.2.2 Assemblage T et jonctions transversales

Etapes (voir détails de fabrication '*raccordement-T*'):

a. Tronçonnage parfait de la traverse
b. Application des trous des raccordement-T (∅ 12mm: demi-profile intérieur; ∅ 3.5mm: demi-profile extérieur).
c. Fraiser la hauteur de la rainure de la traverse (hauteur 22mm)
d. Protection des coupes et des surfaces traitées par:
   - ébavurage (si nécessaire);
   - enlèvement des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
   - dégraissage (Reynafinish 60 art. nr. 086.9210.--)
   - application de Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art.n° 086.9600.06) sur des coupeaux de fraisage (art.n°086.9208.SY + 086.9225.--).
e. Etanchement de la traverse : appliquer de la matière d'étanchéité neutre:
   sur les coupes;
   sur les trous de fixation;
f. Etanchement de la zone au dessous des traverses sur le profilé dormant, sauf pour les traverses horizontales avec des fenêtres fixes, en appliquant des éléments d'étanchéité ou d'une matière d'étanchéité neutre ou Reynaprotector (art.nr. 086.9208.SY).
   Ceux-ci doivent être complètement étanches à l'eau.
   Remarque:
   Des exceptions afin d'obtenir une égalisation de pression, dans le cas de panneaux fixes, sont permises à condition de réaliser un drainage contrôlé.
g. Assemblage: la jonction T est positionnée sur la ligne de centrage, la traverse est introduit, vissée et chevillée (ou 2x chevillée).
h. Application et fixation des cales de feuillure (voir détails de fabrication 'cale de feuillure')
i. Sur les éléments composés, les résidus de colle ne doivent être enlevés que des surfaces visibles, et ceci uniquement à l'aide d'un produit non-agressif (Reynafinish 60 art.n° 086.9210.--).

1.2.1 Raccords d'angle

1.2.3.1. A sertir

Etapes (voir détails de fabrication 'assemblage angulaire équerre à sertir'):

* option A : injection de colle après le sertissage
** option B : injection de colle avant le sertissage

a. Tronçonnage parfait
b. *Application des trous pour l'injection de colle (∅3.5/4mm) (voir détails de fabrication 'injection de colle')
c. Protection des coupes et des surfaces traitées par:
- ébavurage (si nécessaire);
- enlèvement des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
- dégraissage (Reynafinish 60 art.n°086.9210.--) ;
- application de produit Reynaprotector (art. n°. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art.n° 086.9600.06) sur des coupeaux de fraisage.

d. ** Encollage dans la chambre du profilé : appliquer une colle d'étanchéité approuvée (colle bi composants Reynaseal duo art.n° 084.9080.--)
e. (Reynafinish 60 art.n° 086.9210.--)
f. Application de Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art.n° 086.9600.06) sur des coupeaux de fraisage.
g. Application des équerres à sertir et des équerres de remplissage.
h. Raccorder et sertir (voir détails de fabrication 'sertisseuse')
i. * Injection de colla à la hauteur des trous pour l'injection de colle à l'aide d'une colle à deux composants art. no. 084.9080.--).
j. Sur les éléments composés, les résidus de colle ne doivent être enlevés que des surfaces visibles, et ceci uniquement à l'aide d'un produit non-agressif (Reynafinish 60 art.n° 086.9210.--).

B

1.2.3.2. À visser

Etapes (voir détails de fabrication '*assemblage angulaire équerre à visser*'):

* option A : injection de colle après le vissage
** option B : injection de colle avant le vissage

a .Tronçonnage parfait
a. * Application des trous à visser
b. Protection des coupes et des surfaces traitées par:
-ébavurage (si nécessaire);
-enlèvement des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
-dégraissage (Reynafinish 60 art. n°086.9210.--) ;
-application de produit Reynaprotector (art. n°. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art. n° 086.9600.06) sur des coupeaux de fraisage.
c. ** Encollage dans la chambre du profilé : appliquer une colle d'étanchéité approuvée (colle bi
d. composants Reynaseal duo art.n° 084.9080.--)
e. Raccorder et sertir (clé à six pans 4)
f. * Injection de colla à la hauteur des trous pour l'injection de colle à l'aide d'une colle à deux
g. composants art. no. 084.9080.--).
j. Sur les éléments composés, les résidus de colle ne doivent être enlevés que des surfaces visibles, et ceci, uniquement à l'aide d'un produit non agressif (Reynafinish 60 art. n°086.9210.--).

B

1.2.4 Joints

Tous les joints sont en EPDM résistant aux intempéries et au vieillissement. Leur montage doit se faire soigneusement, puisque l'étanchéité de la fenêtre en dépend.

a. Application du joint central

Etapes (voir détails de fabrication 'joint') :

1. Découpe correcte: la découpe du joint central doit se faire avec le gabarit de coupe (art.n° 090.0121.00). Une longueur supplémentaire (environ 10 mm par mètre) doit être prévue.
2. Application du joint: les joints sont appliqués dans les rainures des profilés prévues à cet effet; la longueur supplémentaire est légèrement refoulée pour neutraliser le rétrécissement. Les difficultés de mise en place peuvent être résolues à l'aide d'un aérosol silicone (art.n° 086.9551.--).
3. Encollage (étanchement): les onglets doivent être vulcanisés avec de la colle de vulcanisation (Unionzement art.n° 084.9103.--). Cette colle permet à la jonction de rester élastique et de garantir parfaitement le rôle du joint même dans les angles.

b. Application du joint de porte

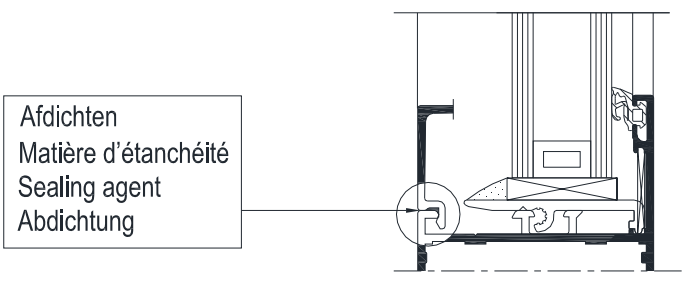
Etapes *(voir détails de fabrication 'joint'):*

1. Découpe correcte: la découpe du joint acoustique doit se faire avec le gabarit de coupe (art.n° 090.0121.UN). Ce joint doit être coupé droit et doit être continu dans les angles. (une petite coupe dans les angles permet de plier le joint facilement). Une longueur supplémentaire (environ 10 mm par mètre) doit être prévue.
2. Application du joint: les joints sont appliqués dans les rainures des profilés prévues à cet effet; la longueur supplémentaire est légèrement refoulée pour neutraliser le rétrécissement. Les difficultés de mise en place peuvent être résolues à l'aide d'un aérosol silicone (art.n° 086.9551.--).
3. A la hauteur des charnières, ce joint doit être interrompu suivant les instructions du catalogue.
4. Encollage (étanchement): les coupes doivent être vulcanisées avec de la colle de vulcanisation (Unionzement art.n° 084.9103.--).

c. Application des joints de vitrage

Etapes (*voir détails de fabrication 'joint'*):

a. Découpe correcte: la découpe du joint de vitrage doit se faire avec le gabarit de coupe (art.n° 090.0121.00) et le joint peut être coupé à onglet ou droit en fonction du type de jonction entre les profilés. Une longueur supplémentaire (environ 10 mm par mètre) doit être prévue.
b. Application du joint: les joints sont appliqués dans les rainures des profilés prévues à cet effet; la longueur supplémentaire est légèrement refoulée pour neutraliser la dilatation ou le rétrécissement. Les difficultés de mise en place peuvent être résolues à l'aide d'un aérosol silicone (art.n° 086.9551.--).
c. Encollage (étanchement): dans les angles, le joint de vitrage doit être encollé avec de la colle de vulcanisation (Unionzement art.n° 084.9103.--). Cette colle permet à la jonction de rester élastique et de garantir parfaitement le rôle du joint même dans les angles.



I.2 RECOMMANDATIONS DE MONTAGE

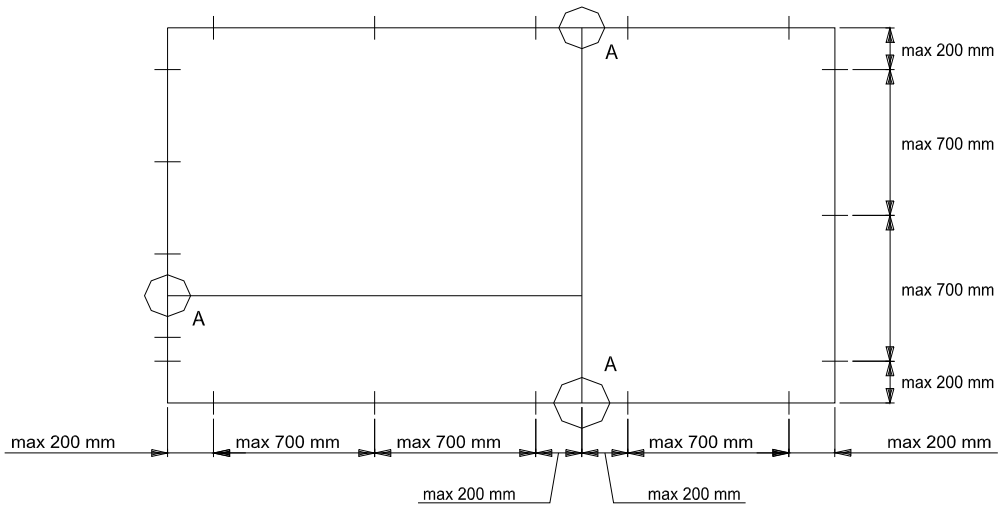
II.2.1 Stockage

Les éléments non finis et finis doivent seulement être stockés dans un local sec, à l'abri du gel.

II.2.2 Montage dans le gros œuvre

La fixation au gros oeuvre se fait soit directement à travers les profilés avec par exemple des vis et des chevilles, soit à l'aide d'ancrages de fixation.

- Les fixations ne peuvent pas être appliquées à une distance inférieure à 40 mm du mur du gros oeuvre.
- L'ancrage ne peut surtout pas influencer la force portante des éléments de construction contigus.
- Tous les ancrages, pour autant qu'ils ne soient pas en aluminium ou en acier inoxydable, doivent être efficacement protégés contre la corrosion et ne peuvent pas corroder l'aluminium.
- Lors de la pose des fenêtres, on prévoit des fixations en suffisance:



De tous les côtés il doit y avoir au moins 2 fixations avec une distance maximale jusqu'à l'angle de 200 mm.

- La distance entre les fixations est de 700 mm au maximum.
- A l'endroit où des profilés T et des profilés dormants se rencontrent, l'ancrage doit être appliqué à une distance maximale de 200 mm des deux côtés du profilé T (A). De cette façon, une dilatation ou un rétrécissement du profilé T (dus aux fluctuations de température) sont possibles sans dégâts.
- Il est conseillé de positionner les fixations à la hauteur de chaque point de charnière et de fermeture.
- Remarque:
- Les ancrages doivent être appliqués d'une telle façon qu'ils peuvent neutraliser des dilatations/rétrécissements éventuels de la fenêtre.

II.2.3 Montage des accessoires

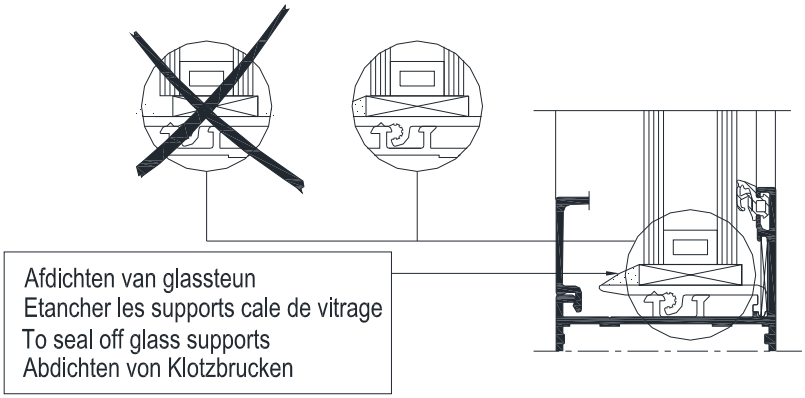
Le choix des points de fixation, du nombre de points de fermeture, du nombre de charnières, du poids max. d'ouvrant, des dimensions max. d'ouvrant, etc. doit se faire suivant les instructions du fournisseur des systèmes et du fabricant des accessoires.
Les parties coulissantes et mobiles doivent être pourvues de graisse neutre.
Lors du montage, il faut contrôler si les accessoires peuvent être actionnés de façon souple et sans bloquer.

II.3 VITRAGE

Tous nos systèmes sont conçus pour vitrer à l'aide de joints EPDM ou de silicone neutre. En cas d'utilisation d'un joint au silicone, l'usage d'un fond de joint constitué d'un joint-mousse compressible autocollant est recommandé pour maintenir un espace libre suffisant entre le verre et l'aluminium. Nous vous recommandons d'utiliser notre système de joints de vitrage pour des raisons de facilité et fiabilité de mise en oeuvre, de bonne tenue dans le temps et de simplicité dans le remplacement de volumes verriers.

Le vitrage devra se faire en respectant les points suivants:

- Le joint doit être refoulé pour éviter qu'apparaissent, dans le temps, des ouvertures dans les angles dues au rétrécissement de ce joint.
- Des ouvertures de drainage doivent être forées afin d'éviter toute stagnation d'eau. Ceci est également nécessaire en cas de vitrage au silicone (voir détails de fabrication 'drainage').
- Pour la pose des vitrages, le jeu entre vitrage et fond de feuillure doit être de 12 mm (6 mm par côté) au minimum.
- Les supports de vitrage qui se trouvent en-dessous du panneau de vitrage doivent être rendus étanches (voir dessin ci-après).



Fixation du vitrage

Aucun volume verrier ne peut être directement en contact avec l'aluminium. La pose de cales de vitrage et d'un joint est indispensable.
Le but du calage du verre est non seulement d'éviter ce contact, mais également d'obtenir une bonne pose dans les portes et de transmettre de façon correcte le poids du verre même sur les charnières afin de prévenir une déformation éventuelle de l'ouvrant.

Afin de simplifier le calage du vitrage, nous disposons de supports de vitrage qui sont utilisés pour égaliser le fond de la feuillure. Sur ces supports on peut utiliser des cales de vitrage rectangulaires.

Le nombre et la position des supports de cale de vitrage sont déterminés par le STS 38.
Un aperçu:

Nous distinguons 2 types de cales de vitrage:

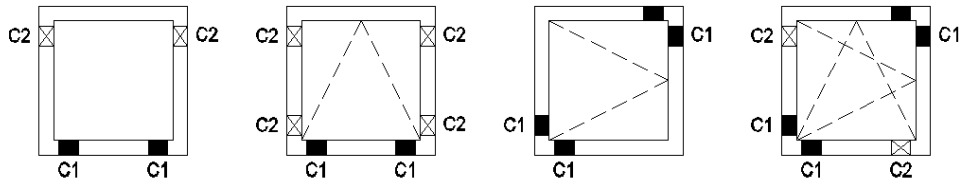
cale de support

cale d'ajustement

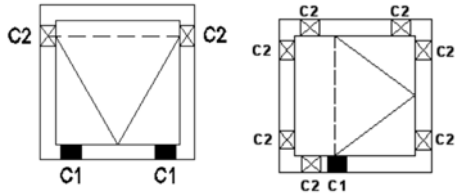
C1: Cales de support
Ces cales de support transmettent le poids du verre sur l'ouvrant ou sur l'allège, et leur bonne pose est d'une importance capitale pour le fonctionnement des fenêtres.

C2: Cales d'ajustement
Ces cales assurent le positionnement du verre par rapport à la feuillure, et sont appliquées sans forcer. Elles empêchent tout mouvement du verre dans son logement.

Les schémas suivants indiquent la pose des différentes cales de vitrage dans les différents types de fenêtres.



fenêtre fixe fenêtre tombante fenêtre ouvrante fenêtre oscillo-battante



Fenêtre ouvrant a l'italienne ouvrant projetant

En cas de vitrage fixe, on applique les supports dans les angles de la traverse basse pour empêcher que celle-ci ne plie sous le poids du verre (voir schéma fenêtre fixe).

En cas de fenêtres ouvrantes, le verre est calé diagonalement de l'angle inférieur de la charnière à l'angle supérieur opposé (voir schéma fenêtre ouvrante).
Après le réglage de l'ouvrant au recouvrement correct, les deux autres angles peuvent être traités avant d'appliquer les parcloses.
En cas de doute si le recouvrement est correct, nous vous recommandons de tracer deux fines lignes de crayon sur l'angle supérieur supporté diagonalement. Quand la fenêtre est ouverte, on voit clairement ces lignes et le recouvrement peut être mesuré.

RECOMMANDATIONS DE MISE EN OEUVRE

I. GENERAL

Voir catalogue “1. Informations générales” (089.C01E.00 édition 11/2004)

II. RECOMMANDATIONS DE MISE EN OEUVRE ES 45-Pa

II.1 RECOMMANDATIONS DE FABRICATION

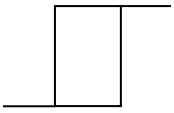
Afin de garantir un produit final parfait, certaines règles doivent être suivies pendant la fabrication.

II.1.1 Opérations d’usinage.

Par opérations d’usinage on entend: toutes les opérations mécaniques comme le tronçonnage, le fraisage, le forage, le poinçonnage et la découpe. Il est essentiel que la couche de laque des profilés laqués ne se détache pas sur les bords pendant ces opérations. Il est donc très important pour la qualité des assemblages que:

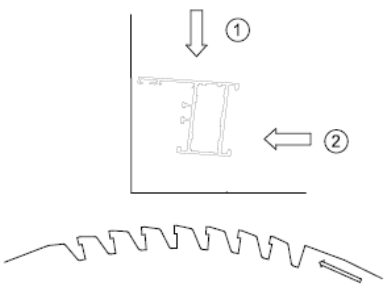
- les outils d’usinage soient adaptés et suffisamment aiguisés;
- les machines soient bien réglées (p.ex. régime);
- un contrôle régulier des outils ait lieu;
- les outils d’usinage soient correctement et suffisamment graissés:
  bâton lubrifiant (art.n° 086.9191.--) pour lames de scie;
  huile de coupe (art.n° 086.9175.--) pour outils de poinçonnage
  ou les réfrigérants et lubrifiants prescrits par les fournisseurs des machines;
- les mors de serrage adaptés soient utilisés (*voir détails de fabrication ‘blocs de serrage scie circulaire*’);
- la table d’aménée ou d’évacuation soit exempte de copeaux et de souillures;
- le refroidissement éventuel se fasse à l’aide de produits chimiquement neutres qui ne corrodent pas le traitement de surface.

Position/serrage des profilés pendant le tronçonnage:
La position des profilés sur la table de sciage pendant le tronçonnage est très importante et est la base pour obtenir des onglets parfaits après montage de la fenêtre ou de la porte.
La pression principale doit toujours être exercée sur la «face de référence» des profilés.
La «face de référence» doit être positionnée parfaitement horizontalement ou verticalement sur la table de sciage.
Les mors de serrage doivent être utilisés:
a.pour éviter que les tolérances sur les profilés influencent la qualité de l’onglet;
b.pour éviter que les profilés ne basculent sur la table.

Face de référence ->  <- Face de référence

MAUVAIS TRONCONNAGE

DEFAUT:	Le vérin principal presse sur la surface visible du profilé à tronçonner entraînant son décalage.
CONSEQUENCES:	Coupe d’onglet en biais, côtés extérieurs raccourcis par rapport aux côtés intérieurs.
RESULTAT:	Après sertissage, l’assemblage sur la face intérieure est correct, tandis qu’à l’extérieur l’onglet s’est ouvert.

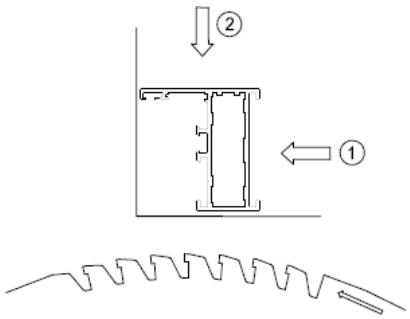


B

TRONCONNAGE CORRECT
Le vérin principal exerce sa pression sur la face de la feuillure.
La surface visible ne subit que la pression réduite du vérin secondaire.
Le profilé n'a pas tendance à se décaler ou à se déformer pendant la coupe et le sertissage des profilés sciés à onglet peut s'effectuer sans problèmes

Remarque:
Il est recommandé d'aspirer les copeaux pendant le tronçonnage.
Toutes les coupes des profilés qui forment une jonction comme les équerres d'assemblage angulaires et les jonctions-T doivent être protégées à l'aide de Reynaprotector (art.nr. 086.9208.SY + 086.9225.--). Toutes les autres coupes (comme parcloses, fixations, ...) doivent être protégées à l'aide de Reynastick (art.n°086.9600.06) ainsi que les fraisages, trous d'alésage, perforations, ...

B



II.1.2 Assemblage

Nous faisons la subdivision suivante:
1. Découpes pour les accessoires.
2. Assemblages T.
3. Raccords d'angle
    a. à sertir
    b. à visser

4. Joints.

1.2.1. Drainage, aération et découpes pour les accessoires
Etapes:
a. Marquer les découpes.
b. Poinçonnage, forage ou fraisage correct.
c. Protection des surfaces traitées par:
    - ébavurage (si nécessaire);
    - enlèvement des poussières et des copeaux sur les scies et dans la chambre du profilé.
    - dégraissage (Reynafinisch 60 art. nr. 086.9210.--);
    - application de Reynastick (art.n° 086.9600.06).
    -

Lors du drainage, il faut prêter attention aux points suivants:
Les eaux d'infiltration éventuelles doivent être évacués de façon rapide et contrôlée vers l'extérieur et il faut maintenir la chambre de décompression à la pression atmosphérique.
- Pour chaque fenêtre, des ouvertures de drainage sont prévues à une distance maximale de l'angle de 250 mm (en cas de drainage spécifique: voir détails de fabrication '*drainage*')

a. 3 ouvertures jusqu'à une largeur de fenêtre 1000 mm
b. 4 ouvertures jusqu'à une largeur de fenêtre 1500 mm
etc... une ouverture en plus par 500 mm supplémentaires en largeur. Pour chaque surface vitrée il faut prévoir 2 trous de drainage!

- Les ouvertures de drainage qui sont visibles de l'extérieur de la fenêtre doivent recevoir des capuchons en matière synthétique, chez des fenêtres fixes, le capuchon avec soupape (069.6830.04) est toujours utilisé.
- Les fenêtres, quel que soit leur type, doivent obligatoirement être drainées au niveau des traverses basses et intermédiaires.
- Chez des fenêtres fixes, les deux côtes en forme de T doivent être supprimés 8mm local, pour permettre le drainage de l'eau infiltrant.

- Chaque fenêtre, sauf les fenêtres fixes, prévus ou non des traverses horizontales ou verticales, doit être prévue de trous d'aération (voir détails de fabrication 'décompression').
  Sa fonction est de garantir l'égalisation de la pression autour du vitrage.
- Sur le haut du côté de l'ouvrant, on fore toujours au moins 1 ouverture de 5 mm de diamètre au minimum.

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1.2.2 Assemblage T et jonctions transversales

Etapes (voir détails de fabrication '*raccordement-T*'):

a. Tronçonnage parfait de la traverse
b. Application des trous des raccordement-T (∅ 12mm: demi-profile intérieur; ∅ 3.5mm: demi-profile extérieur).
c. Fraiser la hauteur de la rainure de la traverse (hauteur 22mm)
d. Protection des coupes et des surfaces traitées par:
   - ébavurage (si nécessaire);
   - enlèvement des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
   - dégraissage (Reynafinish 60 art. nr. 086.9210.--)
   - application de Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art.n° 086.9600.06) sur des coupeaux de fraisage (art.n°086.9208.SY + 086.9225.--).
e. Etanchement de la traverse : appliquer de la matière d'étanchéité neutre:
   sur les coupes;
   sur les trous de fixation;
f. Etanchement de la zone au dessous des traverses sur le profilé dormant, sauf pour les traverses horizontales avec des fenêtres fixes, en appliquant des éléments d'étanchéité ou d'une matière d'étanchéité neutre ou Reynaprotector (art.nr. 086.9208.SY).
   Ceux-ci doivent être complètement étanches à l'eau.
   Remarque:
   Des exceptions afin d'obtenir une égalisation de pression, dans le cas de panneaux fixes, sont permises à condition de réaliser un drainage contrôlé.
g. Assemblage: la jonction T est positionnée sur la ligne de centrage, la traverse est introduit, vissée et chevillée (ou 2x chevillée).
h. Application et fixation des cales de feuillure (voir détails de fabrication 'cale de feuillure')
i. Sur les éléments composés, les résidus de colle ne doivent être enlevés que des surfaces visibles, et ceci uniquement à l'aide d'un produit non-agressif (Reynafinish 60 art.n° 086.9210.--).

1.2.1 Raccords d'angle

1.2.3.1. A sertir

Etapes (voir détails de fabrication 'assemblage angulaire équerre à sertir'):

* option A : injection de colle après le sertissage
** option B : injection de colle avant le sertissage

a. Tronçonnage parfait
b. *Application des trous pour l'injection de colle (∅3.5/4mm) (voir détails de fabrication 'injection de colle')
c. Protection des coupes et des surfaces traitées par:
- ébavurage (si nécessaire);
- enlèvement des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
- dégraissage (Reynafinish 60 art.n°086.9210.--) ;
- application de produit Reynaprotector (art. n°. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art.n° 086.9600.06) sur des coupeaux de fraisage.

d. ** Encollage dans la chambre du profilé : appliquer une colle d'étanchéité approuvée (colle bi composants Reynaseal duo art.n° 084.9080.--)
e. (Reynafinish 60 art.n° 086.9210.--)
f. Application de Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art.n° 086.9600.06) sur des coupeaux de fraisage.
g. Application des équerres à sertir et des équerres de remplissage.
h. Raccorder et sertir (voir détails de fabrication 'sertisseuse')
i. * Injection de colla à la hauteur des trous pour l'injection de colle à l'aide d'une colle à deux composants art. no. 084.9080.--).
j. Sur les éléments composés, les résidus de colle ne doivent être enlevés que des surfaces visibles, et ceci uniquement à l'aide d'un produit non-agressif (Reynafinish 60 art.n° 086.9210.--).

B

1.2.3.2. À visser

Etapes (voir détails de fabrication '*assemblage angulaire équerre à visser*'):

* option A : injection de colle après le vissage
** option B : injection de colle avant le vissage

a .Tronçonnage parfait
a. * Application des trous à visser
b. Protection des coupes et des surfaces traitées par:
-ébavurage (si nécessaire);
-enlèvement des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
-dégraissage (Reynafinish 60 art. n°086.9210.--) ;
-application de produit Reynaprotector (art. n°. 086.9208.SY + 086.9225.--) sur des copeaux de sciage et Reynastick (art. n° 086.9600.06) sur des coupeaux de fraisage.
c. ** Encollage dans la chambre du profilé : appliquer une colle d'étanchéité approuvée (colle bi
d. composants Reynaseal duo art.n° 084.9080.--)
e. Raccorder et sertir (clé à six pans 4)
f. * Injection de colla à la hauteur des trous pour l'injection de colle à l'aide d'une colle à deux
g. composants art. no. 084.9080.--).
j. Sur les éléments composés, les résidus de colle ne doivent être enlevés que des surfaces visibles, et ceci, uniquement à l'aide d'un produit non agressif (Reynafinish 60 art. n°086.9210.--).

B

1.2.4 Joints

Tous les joints sont en EPDM résistant aux intempéries et au vieillissement. Leur montage doit se faire soigneusement, puisque l'étanchéité de la fenêtre en dépend.

a. Application du joint central

Etapes (voir détails de fabrication 'joint') :

1. Découpe correcte: la découpe du joint central doit se faire avec le gabarit de coupe (art.n° 090.0121.00). Une longueur supplémentaire (environ 10 mm par mètre) doit être prévue.
2. Application du joint: les joints sont appliqués dans les rainures des profilés prévues à cet effet; la longueur supplémentaire est légèrement refoulée pour neutraliser le rétrécissement. Les difficultés de mise en place peuvent être résolues à l'aide d'un aérosol silicone (art.n° 086.9551.--).
3. Encollage (étanchement): les onglets doivent être vulcanisés avec de la colle de vulcanisation (Unionzement art.n° 084.9103.--). Cette colle permet à la jonction de rester élastique et de garantir parfaitement le rôle du joint même dans les angles.

b. Application du joint de porte

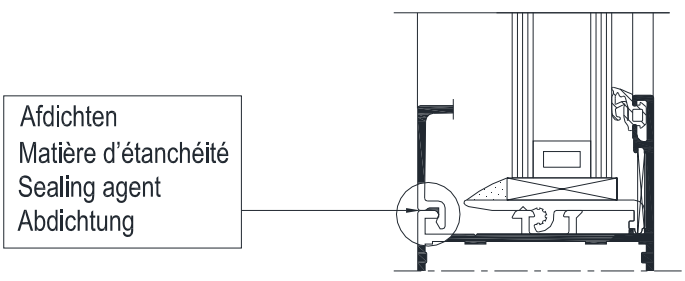
Etapes *(voir détails de fabrication 'joint'):*

1. Découpe correcte: la découpe du joint acoustique doit se faire avec le gabarit de coupe (art.n° 090.0121.UN). Ce joint doit être coupé droit et doit être continu dans les angles. (une petite coupe dans les angles permet de plier le joint facilement). Une longueur supplémentaire (environ 10 mm par mètre) doit être prévue.
2. Application du joint: les joints sont appliqués dans les rainures des profilés prévues à cet effet; la longueur supplémentaire est légèrement refoulée pour neutraliser le rétrécissement. Les difficultés de mise en place peuvent être résolues à l'aide d'un aérosol silicone (art.n° 086.9551.--).
3. A la hauteur des charnières, ce joint doit être interrompu suivant les instructions du catalogue.
4. Encollage (étanchement): les coupes doivent être vulcanisées avec de la colle de vulcanisation (Unionzement art.n° 084.9103.--).

c. Application des joints de vitrage

Etapes (*voir détails de fabrication 'joint'*):

a. Découpe correcte: la découpe du joint de vitrage doit se faire avec le gabarit de coupe (art.n° 090.0121.00) et le joint peut être coupé à onglet ou droit en fonction du type de jonction entre les profilés. Une longueur supplémentaire (environ 10 mm par mètre) doit être prévue.
b. Application du joint: les joints sont appliqués dans les rainures des profilés prévues à cet effet; la longueur supplémentaire est légèrement refoulée pour neutraliser la dilatation ou le rétrécissement. Les difficultés de mise en place peuvent être résolues à l'aide d'un aérosol silicone (art.n° 086.9551.--).
c. Encollage (étanchement): dans les angles, le joint de vitrage doit être encollé avec de la colle de vulcanisation (Unionzement art.n° 084.9103.--). Cette colle permet à la jonction de rester élastique et de garantir parfaitement le rôle du joint même dans les angles.



I.2 RECOMMANDATIONS DE MONTAGE

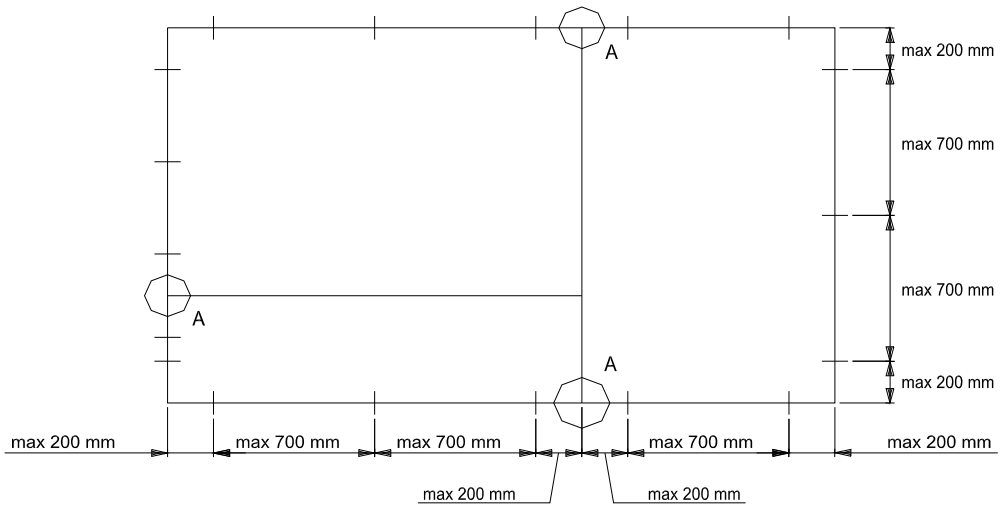
II.2.1 Stockage

Les éléments non finis et finis doivent seulement être stockés dans un local sec, à l'abri du gel.

II.2.2 Montage dans le gros œuvre

La fixation au gros oeuvre se fait soit directement à travers les profilés avec par exemple des vis et des chevilles, soit à l'aide d'ancrages de fixation.

- Les fixations ne peuvent pas être appliquées à une distance inférieure à 40 mm du mur du gros oeuvre.
- L'ancrage ne peut surtout pas influencer la force portante des éléments de construction contigus.
- Tous les ancrages, pour autant qu'ils ne soient pas en aluminium ou en acier inoxydable, doivent être efficacement protégés contre la corrosion et ne peuvent pas corroder l'aluminium.
- Lors de la pose des fenêtres, on prévoit des fixations en suffisance:



De tous les côtés il doit y avoir au moins 2 fixations avec une distance maximale jusqu'à l'angle de 200 mm.

- La distance entre les fixations est de 700 mm au maximum.
- A l'endroit où des profilés T et des profilés dormants se rencontrent, l'ancrage doit être appliqué à une distance maximale de 200 mm des deux côtés du profilé T (A). De cette façon, une dilatation ou un rétrécissement du profilé T (dus aux fluctuations de température) sont possibles sans dégâts.
- Il est conseillé de positionner les fixations à la hauteur de chaque point de charnière et de fermeture.
- Remarque:
- Les ancrages doivent être appliqués d'une telle façon qu'ils peuvent neutraliser des dilatations/rétrécissements éventuels de la fenêtre.

II.2.3 Montage des accessoires

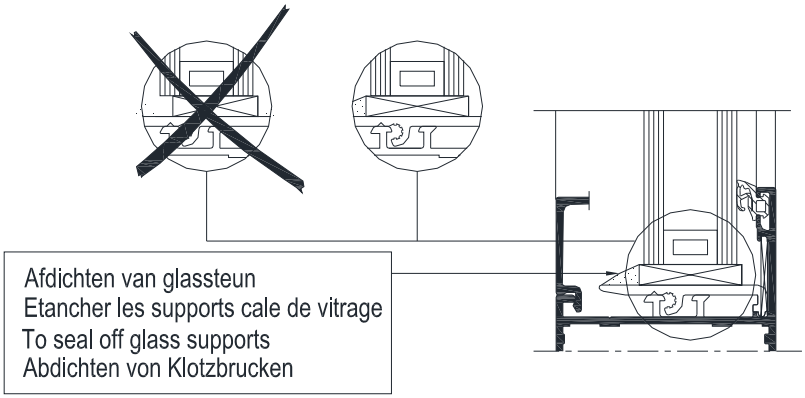
Le choix des points de fixation, du nombre de points de fermeture, du nombre de charnières, du poids max. d'ouvrant, des dimensions max. d'ouvrant, etc. doit se faire suivant les instructions du fournisseur des systèmes et du fabricant des accessoires.
Les parties coulissantes et mobiles doivent être pourvues de graisse neutre.
Lors du montage, il faut contrôler si les accessoires peuvent être actionnés de façon souple et sans bloquer.

II.3 VITRAGE

Tous nos systèmes sont conçus pour vitrer à l'aide de joints EPDM ou de silicone neutre. En cas d'utilisation d'un joint au silicone, l'usage d'un fond de joint constitué d'un joint-mousse compressible autocollant est recommandé pour maintenir un espace libre suffisant entre le verre et l'aluminium. Nous vous recommandons d'utiliser notre système de joints de vitrage pour des raisons de facilité et fiabilité de mise en oeuvre, de bonne tenue dans le temps et de simplicité dans le remplacement de volumes verriers.

Le vitrage devra se faire en respectant les points suivants:

- Le joint doit être refoulé pour éviter qu'apparaissent, dans le temps, des ouvertures dans les angles dues au rétrécissement de ce joint.
- Des ouvertures de drainage doivent être forées afin d'éviter toute stagnation d'eau. Ceci est également nécessaire en cas de vitrage au silicone (voir détails de fabrication 'drainage').
- Pour la pose des vitrages, le jeu entre vitrage et fond de feuillure doit être de 12 mm (6 mm par côté) au minimum.
- Les supports de vitrage qui se trouvent en-dessous du panneau de vitrage doivent être rendus étanches (voir dessin ci-après).



Fixation du vitrage

Aucun volume verrier ne peut être directement en contact avec l'aluminium. La pose de cales de vitrage et d'un joint est indispensable.
Le but du calage du verre est non seulement d'éviter ce contact, mais également d'obtenir une bonne pose dans les portes et de transmettre de façon correcte le poids du verre même sur les charnières afin de prévenir une déformation éventuelle de l'ouvrant.

Afin de simplifier le calage du vitrage, nous disposons de supports de vitrage qui sont utilisés pour égaliser le fond de la feuillure. Sur ces supports on peut utiliser des cales de vitrage rectangulaires.

Le nombre et la position des supports de cale de vitrage sont déterminés par le STS 38.
Un aperçu:

Nous distinguons 2 types de cales de vitrage:

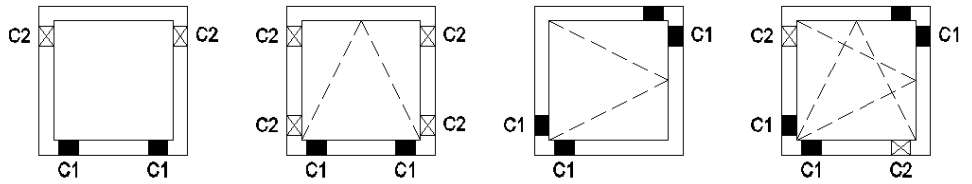
cale de support

cale d'ajustement

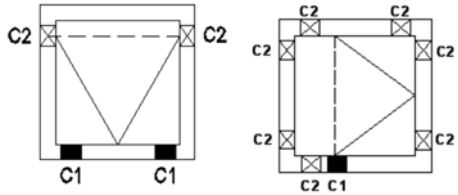
C1: Cales de support
Ces cales de support transmettent le poids du verre sur l'ouvrant ou sur l'allège, et leur bonne pose est d'une importance capitale pour le fonctionnement des fenêtres.

C2: Cales d'ajustement
Ces cales assurent le positionnement du verre par rapport à la feuillure, et sont appliquées sans forcer. Elles empêchent tout mouvement du verre dans son logement.

Les schémas suivants indiquent la pose des différentes cales de vitrage dans les différents types de fenêtres.



fenêtre fixe fenêtre tombante fenêtre ouvrante fenêtre oscillo-battante



Fenêtre ouvrant a l'italienne ouvrant projetant

En cas de vitrage fixe, on applique les supports dans les angles de la traverse basse pour empêcher que celle-ci ne plie sous le poids du verre (voir schéma fenêtre fixe).

En cas de fenêtres ouvrantes, le verre est calé diagonalement de l'angle inférieur de la charnière à l'angle supérieur opposé (voir schéma fenêtre ouvrante).
Après le réglage de l'ouvrant au recouvrement correct, les deux autres angles peuvent être traités avant d'appliquer les parcloses.
En cas de doute si le recouvrement est correct, nous vous recommandons de tracer deux fines lignes de crayon sur l'angle supérieur supporté diagonalement. Quand la fenêtre est ouverte, on voit clairement ces lignes et le recouvrement peut être mesuré.

PROCESSING DATA

I. GENERAL

See catalogue “1. General information”(089.C01E.00 edition 11/2004)

II. PROCESSING DATA ES 45-Pa

II.1 FABRICATING INSTRUCTIONS IONS

In order to guarantee a perfect end product, the following guidelines should be adhered to during the production process.

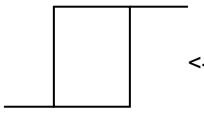
II.1.1 Metal-removing operations

- Metal-removing operations are understood to mean all mechanical operations such as sawing, milling, drilling, punching and cutting. For painted profiles it is essential that the paint coatings do not come off on the edges during these operations. Therefore it is very important for the quality of the connections that:
- - the metal-removing tools are appropriate and sufficiently sharp;
- - the machines are well adjusted (e.g. number of revolutions);
- - the tools are regularly checked;
- - the metal-removing tools are greased sufficiently and correctly:
- cutting grease block (art. no. 086.9191.--) for saw blades,
- cutting spray (art. no. 086.9175.--) for punch tools
- or the cooling agents and lubricants prescribed by the machine suppliers;
- - the appropriate clamp blocks are used; (see assembly drawing ‘clamp blocks saw’)
- - the cutting table is free of swarf and dust;
- - possible cooling is done by means of chemically neutral products which do not attack the surface treatment.

Position/clamping of the profiles during cutting:

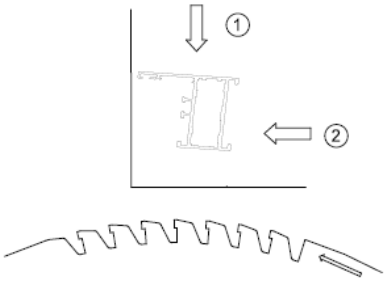
The position of the profiles on the sawing table during cutting is very important and is the basis to get perfect mitres after assembly of the window/door.
The biggest clamping pressure should always be on the “reference side” of the profiles.
The “reference side” has to be put perfectly horizontally or vertically on the sawing table.
The clamp blocks should be used:

a. to ensure that tolerances on the profiles do not influence the quality of the mitre;
b. to ensure that the profiles do not twist on the table.

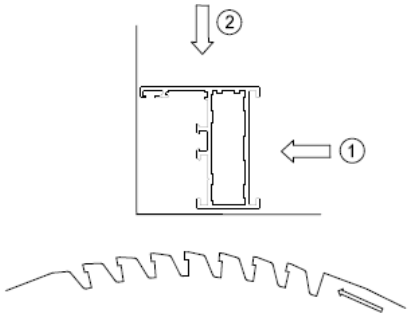
Reference side ->  <- Reference side

INCORRECT CLAMPING

FAULT:	The clamping pressure is on the upper side of the profile, allowing it to twist during cutting.
CONSEQUENCE:	An oblique saw cut resulting in the outside of the profile being shorter than the inside.
RESULT:	On assembly, the corner is closed on the inside and open on the outside.



CORRECT CLAMPING
Here, the clamping pressure is on the rebate side of the profile, and the visible side undergoes a smaller, secondary pressure.
The profile is prevented from twisting or deforming during cutting. A perfect joint is obtained on assembly.
Remark: It is recommended to exhaust the swarf during the cutting.



B

All the saw cuts that form a joint such as corner joints and T-junctions have to be protected with Reynaprotector (art.nr. 086.9208.SY + 086.9225.--)
The other saw cuts (such as glazing beads, terminal strips, ...) have to be protected with Reynastick (art.nr. 086.9600.06) as well as milling cuts, drill holes, punch holes, ...

II.1.2 Assembly

We make the following subdivision:

1. Drainage and recesses for the accessories;
2. T-brackets;
3. Corner connections
   a) crimping
   b) screwing
4. Gaskets

1.2.1 Drainage, ventilation and recesses for the accessories
Steps:
a. Marking of recesses
a. Correct punching, drilling or milling.
b. Protection of the treated surfaces by :
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cuts and in the profile chamber;
   - degreasing (Reynafinish 60 art.no.086.9210);
   - applying Reynastick (art. no. 086.9600.06)

Special attention should be paid to the following regarding drainage:
Possible infiltrating water must be drained smoothly under control and one must be sure that the profile's chambers remain at atmospheric pressure.
- For the leafs, drainage holes should be a maximum of 250 mm from the corner (for specific drainage: see assembly drawings 'drainage'):
  up to a leaf width of 1000 mm: minimum 3 drainage holes;
  up to a leaf width of 1500 m: minimum 4 drainage holes.

- Each glazed surface should be provided with 2 drainage holes!
- The minimum surface of these openings is 50 mm² per opening, either a round opening of minimum 8 mm diameter, or elongated openings of minimum 5 mm by 15 mm.
- Always drain at the lowest point of the glass rebate.
- Drainage holes which are visible on the outside of the leaf and frame are covered with drainage covers in synthetic material. With fixed windows, the drainage cap with valve (069.6830.04) is always used.
- All window types must be provided with a drainage system in the sills and/or the horizontal transoms.
- With fixed windows, both T-shaped ribs need to be removed 8mm locally, this is done to allow drainage of the infiltrating water.All window types, except for fixed windows, whether or not provided with horizontal or vertical transom-mullions, are provided with ventilation holes (see assembly drawing 'decompression'). Its function is to guarantee the pressure equalization around the glazing.
- In case of side hung windows, at the side on top of the vent at least 1 opening of at least 5mm is drilled.

1.2.2 T-brackets and cross connections

Steps (see assembly drawings '*T-connection*') :

a. Correct sawing of the transom-mullion
b. Applying T- connection holes (ø 12mm: inner profile half; ø 3.5: outer profile half)
c. Endmilling of the transom-mullion (height 22 mm)
d. Protection of the saw cuts and treated surfaces by:
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cut and in the profile chamber;
   - degreasing (Reynafinish 60 art.no.086.9210.--);
   - applying Reynaprotector (art. no. 086.9208.SY + 086.9225.--) on the cutting surfaces and Reynastick (art. no. 086.9600.06) on the millingsurfaces
e. Sealing of the transom-mullion by applying a neutral sealing agent: on the saw cuts; on the fixing holes;
f. Sealing of the zone under the transom-mullion on the outer frame, except for the horizontal T-profile with fixed windows, by applying a neutral elastic sealing agent or Reynaprotector (art. no. 086.9208.SY).These parts should be completely watertight.
   Remark : Exceptions are allowed in order to obtain pressure egalization in case of fixed panels on the condition of a controlled drainage.

g. Making the connection: the T-bracket is positioned on the center line, the transom-mullion is inserted, and the T-bracket is fixed with screws and driving-in pins (or 2x driving-in pins).
h. Application and fixing of the corner supports (see assembly drawing 'rebate support')
i. The adhesive residue on the visible sides of the completed elements has to be removed by means of a nonaggressive product (Reynafinish 60 art. no. 086.9210.--).

1.2.3 Corner connections

1.2.3.1 Crimping

Steps (see assembly drawing 'corner connection crimp corner cleat'):

* option A : glue injection after crimping
** option B : glue injection before crimping

a. Correct sawing
b. *applying holes for glue injection (∅ 3.5/4mm) (*see assembly drawing 'glue injection'*)
c. Protection of the saw cuts and treated surfaces by:
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cut and in the profile chamber;
   - degreasing (Degreaser art.no. 086.9210.--);
   - applying anti-corrosion product (Anticorro art.nr. 086.9610.--); drying time: about 1 hour.
d. **Gluing in the profile chamber: applying an approved sealing glue (epoxy art. no. 084.9080.--):
e. Degreasing (Reynafinish 60 art. no. 086.9210.--)
f. Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) on the cutting surfaces and Reynastick (art. no. 086.9600.06) on the milling surfaces.
g. Applying crimp corner cleats and corner supports
h. Making the connection and crimping (see assembly drawing 'crimping machine')
i. * Glue injection at the height of the injection holes by means of an approved sealing glue (epoxy art. no. 084.9880.--)
j. The adhesive residue on the visible sides of the completed elements has to be removed by means of a non-aggressive product (Reynafinish 60 art. no. 086.9210.--).

1.2.3.2. Screws

Steps (see assembly drawing "*corner joint for helical angle*")

* option A : glue injection after screwing
** option B : glue injection before screwing

a. Correct sawing
b. *Applying screw holes
c. Protecting the saw cuts and worked surfaces by:
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cuts and in the profile chamber;
   - degreasing (Reynafinish 60 art. no. 086.9210.--);
   - applying Reynaprotector (art. no. 086.9208.SY + 086.9225.--) to the saw cuts and Reynastick (art. no. 086.9600.06) to the milling cuts.

d. **Gluing in the profile chamber: applying an approved sealing glue (epoxy art. no. 084.9080.--):
e. Applying screw corner cleats, corner supports and rebate support (*see assembly drawing 'rebate support'*)
f. Inserting (prepared) screw corners
g. Make the connection and fix with screws (Allen key 4) and driving-in pins
i. * Glue injection at the height of the injection holes by means of an approved sealing glue (epoxy art. no. 084.9880.--)
j. The adhesive residue on the visible sides of the completed elements has to be removed by means of a non-aggressive product (Reynafinish 60 art. no. 086.9210.--).

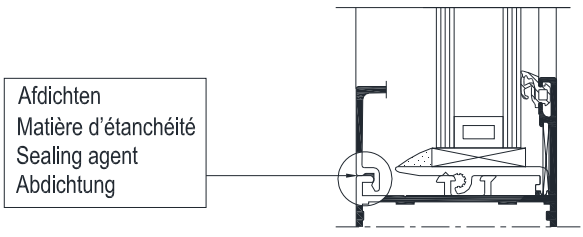
1.2.3.3. Screwing
Steps (see assembly drawing '*corner connection screw corner cleat*'):
a. Correct sawing
b. Applying screw holes
c. Protection of the saw cuts and treated surfaces by:
- deburring (if necessary);
- removing dust and saw-dust on the saw cut and in the profile chamber;
- degreasing (Reynafinish art.no. 086.9210.--);
- applying Reynaprotector (art.no. 086.9208.SY + 086.9225.--) on the cutting surfaces and Reynastick (art. no. 086.9600.06) on the milling surfaces.
d. Applying screw corner cleats and corner supports
e. Making the connection and crimping (socket head wrench 4) and pin
f. The adhesive residue on the visible sides of the completed elements has to be removed by means of a non-aggressive product (Reynafinish 60 art. no. 086.9210.--).

1.2.4 Gaskets
All gaskets are of EPDM resistant to weathering and ageing. They should be carefully applied since the tight sealing of the window depends on their correct application.

a. Applying the central gasket
Steps (see assembly drawing 'gasket'):
1. Correct cutting: the central gasket should be cut with special gasket shears (art. no. 090.0121.00). Extra overhanging (about 10 mm per meter) is required.
2. Application of the gasket: the gaskets are applied in the appropriate grooves within the profiles; they should be cut slightly longer than is necessary to compensate for any shrinkage that may occur.
Difficulties in applying the gasket can be solved by the use of silicone spray (art. no. 086.9551.--).
3. Glueing (sealing): the mitres should be glued with vulcanizing glue (Unionzement art. no. 084.9103.--).
This vulcanizing glue will remain elastic and because of this the gasket will also fit perfectly into the corners.

b. Applying the acoustic gasket
Steps (see assembly drawing 'gasket'):
1. Correct cutting: the acoustic gasket should be cut with special gasket shears (art.no. 090.0121.00). This gasket should be cut straight and should continue into the corners (small cuts in the corners will facilitate the bending). Extra overhanging (about 10 mm per metre) is required.
2. Application of the gasket: the gaskets are applied in the appropriate grooves within the profiles; they should be cut slightly longer than is necessary to compensate for any shrinkage that may occur. Difficulties in applying the gasket can be solved by the use of silicone spray (art.no. 086.9551.--).
3. At hinge height this gasket should be cut according to the instructions mentioned later in this catalogue.
4. Gluing (sealing): the cuts should be glued with vulcanizing agent (Unionzement art.no. 084.9103.--).

c. Applying the glazing gaskets
Steps (see assembly drawing 'gasket'):
1. Correct cutting: the glazing gasket should be cut with special gasket shears (art.no. 090.0121.00) and can be cut straight or mitred according to the kind of profile connection. Extra overhanging (about 10 mm per metre) is required.
2. Application of the gasket: the gaskets are applied in the appropriate grooves within the profiles; they should be cut slightly longer than is necessary to compensate for any shrinkage that may occur. Difficulties in applying the gasket can be solved by the use of silicone spray (art.no. 086.9551.--).
3. Gluing(sealing): in the corners, glazing gaskets should be glued with vulcanizing agent (art.no. 084.9103.--).
This vulcanizing agent will remain elastic and because of this the gasket will also fit perfectly into the corners.



II.2 INSTALLATION

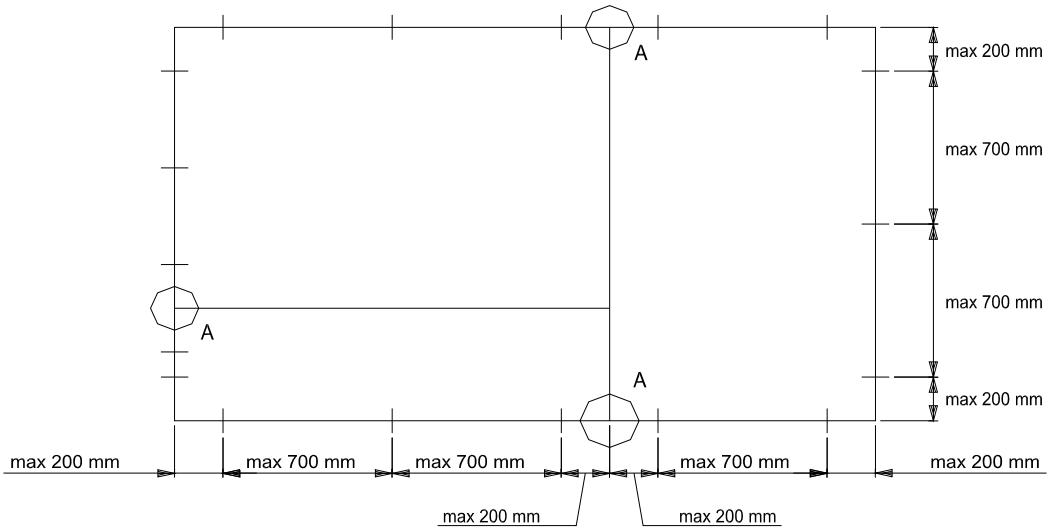
II.2.1 Storage

Unfinished or finished elements should always be stored in a dry, frost-free room.

II.2.2 Fitting in the structural work

The fixing to the structural work is done either directly through the profiles by means of for instance screws and plugs, or by means of fixing lugs.

- The fixings may not be applied less than 40 mm of the wall of the structural work.
- The anchoring may in no way influence the bearing power of the adjacent building parts.
- All anchoring's, as far as they are not made of aluminum or stainless steel, should be adequately corrosion protected and may not attack the aluminum themselves.
- When fitting the windows, sufficient fixings are required:



At least two fixings should be applied on all sides; the maximum distance to the corner is at least 200 mm.

- The distance between the fixings is maximum 700 mm.
- Where transom/mullions and outer frame profiles meet, the fixing must be applied maximum 200 mm from both sides of the transom/mullion (A). In this way, expansion and shrinkage of the transom/mullion (because of fluctuations of temperature) are possible without any damage.
- We recommend to position the fixings at the height of each hinge and locking point.
  Remark:
  The anchoring should be applied in such a way that possible expansion/shrinkage of the window is not obstructed.

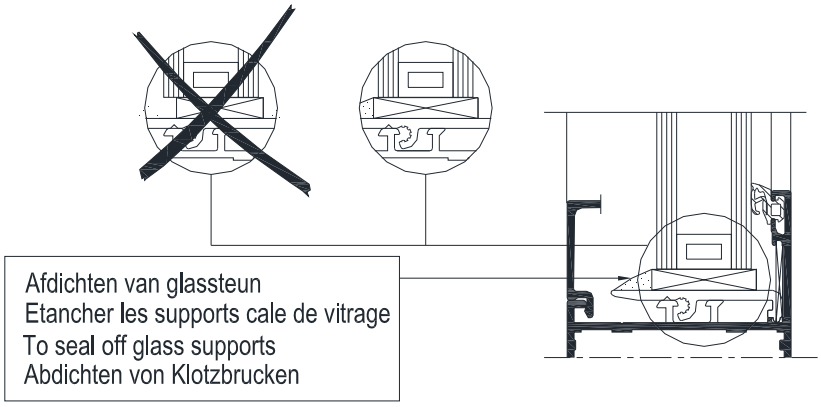
II.2.3 Fitting of the accessories

The choice of the fixing points, number of locking points, number of hinges, max. vent weight, max. vent sizes, vent profile used etc. depends on the instructions of the system supplier and the accessory producer.
Sliding and moving parts should be provided with neutral grease.
When fitting, please check whether all accessories can be operated easily and without getting stuck.

II.3 GLAZING

Reynaers' systems are designed for EPDM gasket or neutral silicone glazing. In case of silicone glazing a backing rod should be applied to create a correct opening between the glass panel and the aluminum frame. For easy and reliable fitting, durability and reglazing simplicity, we recommend using only Reynaers' gaskets - specially adapted for our profiles.

The following precautions should be taken when fitting the glazing:
- Cut the glazing gaskets slightly longer than is necessary to avoid openings in the corners at a later stage.
- Drainage holes should be drilled to avoid a build-up of moisture. This is also necessary in the case of silicone glazing (see assembly drawing 'drainage').
- Glass panels should be 12 mm (6 mm per side) smaller than the actual measured glazing size.
- The glass supports on the bottom of the glass panel should be sealed (see drawing below).



Fitting of the glass panels

Glass panels should not come into contact with the aluminum frame; always use glazing blocks and gaskets.
Wedging prevents this contact and also ensures correct positioning of the glass in the frame,
distributing the weight equally onto the hinges (or rollers) to avoid deformation of the window vent.
In order to simplify fixing of the glazing we dispose of glass supports that can be used to level the
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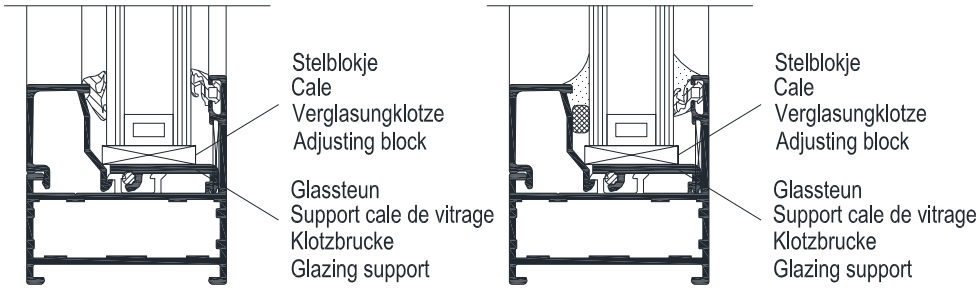


The number and position of the glass supports is defined by the STS 38.

An overview:

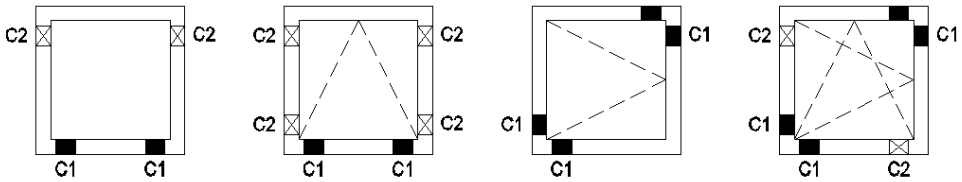
There are 2 types of glazing blocks:

support block

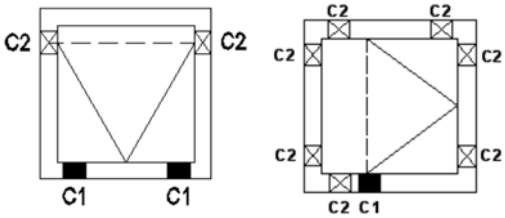
adjusting block

C1: Support blocks
These support blocks distribute the weight of the glass onto the vent or the outer frame. Correct positioning is very important for the vent to function correctly.

C2: Adjusting blocks
These blocks guarantee the correct positioning of the glass between the rebates. They must be positioned without twisting or damaging the profile. Adjusting blocks also prevent the glass panels from moving.
The following sketches indicate the different glazing blocks in different types of windows.



fixed window | bottom-hung window | side-hung window | turn and tilt window



top-hung window with friction stays | side-hung window with friction stays

In case of fixed glazing corner supports are applied in the corners of the sill in order to avoid them from bending under the glass weight (see sketch fixed window).

In casement windows, the glass is wedged diagonally from hinge corner to the opposite top corner (see sketch casement window).
If the vent is set up with the correct overlap, the remaining two corners can be wedged before beading.
If in doubt, the overlap can be checked by tracing two pencil lines on the top corner which has been wedged.
These lines are visible when the vent is opened and the overlap can then be measured.

PROCESSING DATA

I. GENERAL

See catalogue “1. General information”(089.C01E.00 edition 11/2004)

II. PROCESSING DATA ES 45-Pa

II.1 FABRICATING INSTRUCTIONS IONS

In order to guarantee a perfect end product, the following guidelines should be adhered to during the production process.

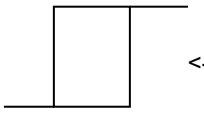
II.1.1 Metal-removing operations

- Metal-removing operations are understood to mean all mechanical operations such as sawing, milling, drilling, punching and cutting. For painted profiles it is essential that the paint coatings do not come off on the edges during these operations. Therefore it is very important for the quality of the connections that:
- - the metal-removing tools are appropriate and sufficiently sharp;
- - the machines are well adjusted (e.g. number of revolutions);
- - the tools are regularly checked;
- - the metal-removing tools are greased sufficiently and correctly:
- cutting grease block (art. no. 086.9191.--) for saw blades,
- cutting spray (art. no. 086.9175.--) for punch tools
- or the cooling agents and lubricants prescribed by the machine suppliers;
- - the appropriate clamp blocks are used; (see assembly drawing ‘clamp blocks saw’)
- - the cutting table is free of swarf and dust;
- - possible cooling is done by means of chemically neutral products which do not attack the surface treatment.

Position/clamping of the profiles during cutting:

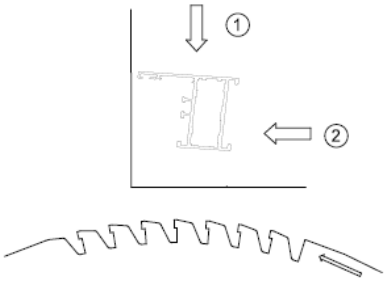
The position of the profiles on the sawing table during cutting is very important and is the basis to get perfect mitres after assembly of the window/door.
The biggest clamping pressure should always be on the “reference side” of the profiles.
The “reference side” has to be put perfectly horizontally or vertically on the sawing table.
The clamp blocks should be used:

a. to ensure that tolerances on the profiles do not influence the quality of the mitre;
b. to ensure that the profiles do not twist on the table.

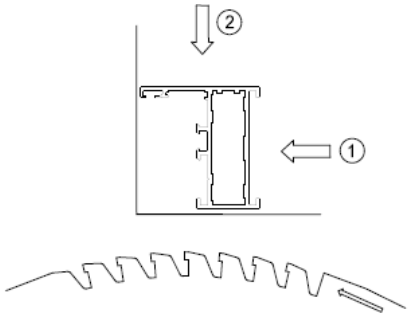
Reference side ->  <- Reference side

INCORRECT CLAMPING

FAULT:	The clamping pressure is on the upper side of the profile, allowing it to twist during cutting.
CONSEQUENCE:	An oblique saw cut resulting in the outside of the profile being shorter than the inside.
RESULT:	On assembly, the corner is closed on the inside and open on the outside.



CORRECT CLAMPING
Here, the clamping pressure is on the rebate side of the profile, and the visible side undergoes a smaller, secondary pressure.
The profile is prevented from twisting or deforming during cutting. A perfect joint is obtained on assembly.
Remark: It is recommended to exhaust the swarf during the cutting.



B

All the saw cuts that form a joint such as corner joints and T-junctions have to be protected with Reynaprotector (art.nr. 086.9208.SY + 086.9225.--)
The other saw cuts (such as glazing beads, terminal strips, ...) have to be protected with Reynastick (art.nr. 086.9600.06) as well as milling cuts, drill holes, punch holes, ...

II.1.2 Assembly

We make the following subdivision:

1. Drainage and recesses for the accessories;
2. T-brackets;
3. Corner connections
   a) crimping
   b) screwing
4. Gaskets

1.2.1 Drainage, ventilation and recesses for the accessories
Steps:
a. Marking of recesses
a. Correct punching, drilling or milling.
b. Protection of the treated surfaces by :
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cuts and in the profile chamber;
   - degreasing (Reynafinish 60 art.no.086.9210);
   - applying Reynastick (art. no. 086.9600.06)

Special attention should be paid to the following regarding drainage:
Possible infiltrating water must be drained smoothly under control and one must be sure that the profile's chambers remain at atmospheric pressure.
- For the leafs, drainage holes should be a maximum of 250 mm from the corner (for specific drainage: see assembly drawings 'drainage'):
  up to a leaf width of 1000 mm: minimum 3 drainage holes;
  up to a leaf width of 1500 m: minimum 4 drainage holes.

- Each glazed surface should be provided with 2 drainage holes!
- The minimum surface of these openings is 50 mm² per opening, either a round opening of minimum 8 mm diameter, or elongated openings of minimum 5 mm by 15 mm.
- Always drain at the lowest point of the glass rebate.
- Drainage holes which are visible on the outside of the leaf and frame are covered with drainage covers in synthetic material. With fixed windows, the drainage cap with valve (069.6830.04) is always used.
- All window types must be provided with a drainage system in the sills and/or the horizontal transoms.
- With fixed windows, both T-shaped ribs need to be removed 8mm locally, this is done to allow drainage of the infiltrating water.All window types, except for fixed windows, whether or not provided with horizontal or vertical transom-mullions, are provided with ventilation holes (see assembly drawing 'decompression'). Its function is to guarantee the pressure equalization around the glazing.
- In case of side hung windows, at the side on top of the vent at least 1 opening of at least 5mm is drilled.

1.2.2 T-brackets and cross connections

Steps (see assembly drawings '*T-connection*') :

a. Correct sawing of the transom-mullion
b. Applying T- connection holes (ø 12mm: inner profile half; ø 3.5: outer profile half)
c. Endmilling of the transom-mullion (height 22 mm)
d. Protection of the saw cuts and treated surfaces by:
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cut and in the profile chamber;
   - degreasing (Reynafinish 60 art.no.086.9210.--);
   - applying Reynaprotector (art. no. 086.9208.SY + 086.9225.--) on the cutting surfaces and Reynastick (art. no. 086.9600.06) on the millingsurfaces
e. Sealing of the transom-mullion by applying a neutral sealing agent: on the saw cuts; on the fixing holes;
f. Sealing of the zone under the transom-mullion on the outer frame, except for the horizontal T-profile with fixed windows, by applying a neutral elastic sealing agent or Reynaprotector (art. no. 086.9208.SY).These parts should be completely watertight.
   Remark : Exceptions are allowed in order to obtain pressure egalization in case of fixed panels on the condition of a controlled drainage.

g. Making the connection: the T-bracket is positioned on the center line, the transom-mullion is inserted, and the T-bracket is fixed with screws and driving-in pins (or 2x driving-in pins).
h. Application and fixing of the corner supports (see assembly drawing 'rebate support')
i. The adhesive residue on the visible sides of the completed elements has to be removed by means of a nonaggressive product (Reynafinish 60 art. no. 086.9210.--).

1.2.3 Corner connections

1.2.3.1 Crimping

Steps (see assembly drawing 'corner connection crimp corner cleat'):

* option A : glue injection after crimping
** option B : glue injection before crimping

a. Correct sawing
b. *applying holes for glue injection (∅ 3.5/4mm) (*see assembly drawing 'glue injection'*)
c. Protection of the saw cuts and treated surfaces by:
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cut and in the profile chamber;
   - degreasing (Degreaser art.no. 086.9210.--);
   - applying anti-corrosion product (Anticorro art.nr. 086.9610.--); drying time: about 1 hour.
d. **Gluing in the profile chamber: applying an approved sealing glue (epoxy art. no. 084.9080.--):
e. Degreasing (Reynafinish 60 art. no. 086.9210.--)
f. Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) on the cutting surfaces and Reynastick (art. no. 086.9600.06) on the milling surfaces.
g. Applying crimp corner cleats and corner supports
h. Making the connection and crimping (see assembly drawing 'crimping machine')
i. * Glue injection at the height of the injection holes by means of an approved sealing glue (epoxy art. no. 084.9880.--)
j. The adhesive residue on the visible sides of the completed elements has to be removed by means of a non-aggressive product (Reynafinish 60 art. no. 086.9210.--).

1.2.3.2. Screws

Steps (see assembly drawing "*corner joint for helical angle*")

* option A : glue injection after screwing
** option B : glue injection before screwing

a. Correct sawing
b. *Applying screw holes
c. Protecting the saw cuts and worked surfaces by:
   - deburring (if necessary);
   - removing dust and saw-dust on the saw cuts and in the profile chamber;
   - degreasing (Reynafinish 60 art. no. 086.9210.--);
   - applying Reynaprotector (art. no. 086.9208.SY + 086.9225.--) to the saw cuts and Reynastick (art. no. 086.9600.06) to the milling cuts.

d. **Gluing in the profile chamber: applying an approved sealing glue (epoxy art. no. 084.9080.--):
e. Applying screw corner cleats, corner supports and rebate support (*see assembly drawing 'rebate support'*)
f. Inserting (prepared) screw corners
g. Make the connection and fix with screws (Allen key 4) and driving-in pins
i. * Glue injection at the height of the injection holes by means of an approved sealing glue (epoxy art. no. 084.9880.--)
j. The adhesive residue on the visible sides of the completed elements has to be removed by means of a non-aggressive product (Reynafinish 60 art. no. 086.9210.--).

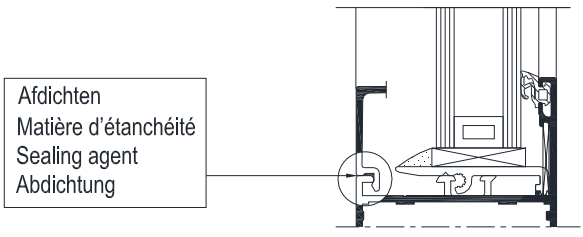
1.2.3.3. Screwing
Steps (see assembly drawing '*corner connection screw corner cleat*'):
a. Correct sawing
b. Applying screw holes
c. Protection of the saw cuts and treated surfaces by:
- deburring (if necessary);
- removing dust and saw-dust on the saw cut and in the profile chamber;
- degreasing (Reynafinish art.no. 086.9210.--);
- applying Reynaprotector (art.no. 086.9208.SY + 086.9225.--) on the cutting surfaces and Reynastick (art. no. 086.9600.06) on the milling surfaces.
d. Applying screw corner cleats and corner supports
e. Making the connection and crimping (socket head wrench 4) and pin
f. The adhesive residue on the visible sides of the completed elements has to be removed by means of a non-aggressive product (Reynafinish 60 art. no. 086.9210.--).

1.2.4 Gaskets
All gaskets are of EPDM resistant to weathering and ageing. They should be carefully applied since the tight sealing of the window depends on their correct application.

a. Applying the central gasket
Steps (see assembly drawing 'gasket'):
1. Correct cutting: the central gasket should be cut with special gasket shears (art. no. 090.0121.00). Extra overhanging (about 10 mm per meter) is required.
2. Application of the gasket: the gaskets are applied in the appropriate grooves within the profiles; they should be cut slightly longer than is necessary to compensate for any shrinkage that may occur.
Difficulties in applying the gasket can be solved by the use of silicone spray (art. no. 086.9551.--).
3. Glueing (sealing): the mitres should be glued with vulcanizing glue (Unionzement art. no. 084.9103.--).
This vulcanizing glue will remain elastic and because of this the gasket will also fit perfectly into the corners.

b. Applying the acoustic gasket
Steps (see assembly drawing 'gasket'):
1. Correct cutting: the acoustic gasket should be cut with special gasket shears (art.no. 090.0121.00). This gasket should be cut straight and should continue into the corners (small cuts in the corners will facilitate the bending). Extra overhanging (about 10 mm per metre) is required.
2. Application of the gasket: the gaskets are applied in the appropriate grooves within the profiles; they should be cut slightly longer than is necessary to compensate for any shrinkage that may occur. Difficulties in applying the gasket can be solved by the use of silicone spray (art.no. 086.9551.--).
3. At hinge height this gasket should be cut according to the instructions mentioned later in this catalogue.
4. Gluing (sealing): the cuts should be glued with vulcanizing agent (Unionzement art.no. 084.9103.--).

c. Applying the glazing gaskets
Steps (see assembly drawing 'gasket'):
1. Correct cutting: the glazing gasket should be cut with special gasket shears (art.no. 090.0121.00) and can be cut straight or mitred according to the kind of profile connection. Extra overhanging (about 10 mm per metre) is required.
2. Application of the gasket: the gaskets are applied in the appropriate grooves within the profiles; they should be cut slightly longer than is necessary to compensate for any shrinkage that may occur. Difficulties in applying the gasket can be solved by the use of silicone spray (art.no. 086.9551.--).
3. Gluing(sealing): in the corners, glazing gaskets should be glued with vulcanizing agent (art.no. 084.9103.--).
This vulcanizing agent will remain elastic and because of this the gasket will also fit perfectly into the corners.



II.2 INSTALLATION

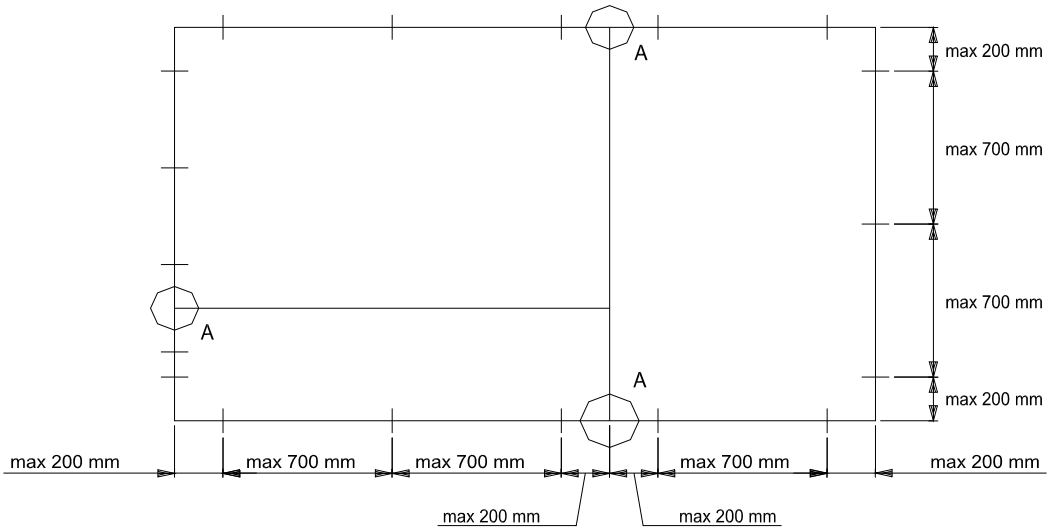
II.2.1 Storage

Unfinished or finished elements should always be stored in a dry, frost-free room.

II.2.2 Fitting in the structural work

The fixing to the structural work is done either directly through the profiles by means of for instance screws and plugs, or by means of fixing lugs.

- The fixings may not be applied less than 40 mm of the wall of the structural work.
- The anchoring may in no way influence the bearing power of the adjacent building parts.
- All anchoring's, as far as they are not made of aluminum or stainless steel, should be adequately corrosion protected and may not attack the aluminum themselves.
- When fitting the windows, sufficient fixings are required:



At least two fixings should be applied on all sides; the maximum distance to the corner is at least 200 mm.

- The distance between the fixings is maximum 700 mm.
- Where transom/mullions and outer frame profiles meet, the fixing must be applied maximum 200 mm from both sides of the transom/mullion (A). In this way, expansion and shrinkage of the transom/mullion (because of fluctuations of temperature) are possible without any damage.
- We recommend to position the fixings at the height of each hinge and locking point.
  Remark:
  The anchoring should be applied in such a way that possible expansion/shrinkage of the window is not obstructed.

II.2.3 Fitting of the accessories

The choice of the fixing points, number of locking points, number of hinges, max. vent weight, max. vent sizes, vent profile used etc. depends on the instructions of the system supplier and the accessory producer.
Sliding and moving parts should be provided with neutral grease.
When fitting, please check whether all accessories can be operated easily and without getting stuck.

II.3 GLAZING

Reynaers' systems are designed for EPDM gasket or neutral silicone glazing. In case of silicone glazing a backing rod should be applied to create a correct opening between the glass panel and the aluminum frame. For easy and reliable fitting, durability and reglazing simplicity, we recommend using only Reynaers' gaskets - specially adapted for our profiles.

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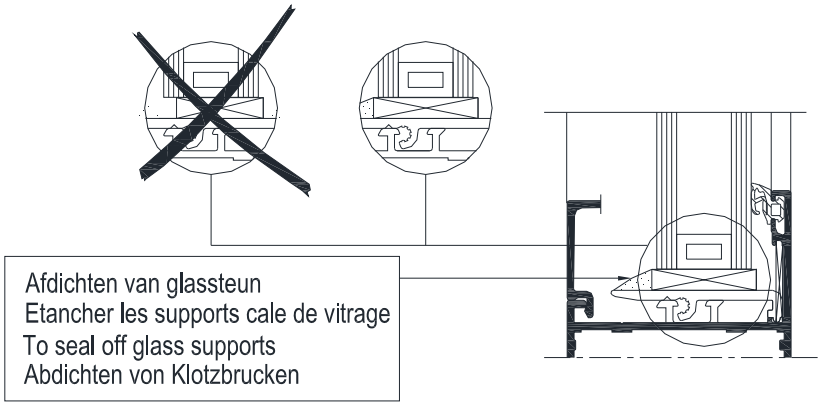

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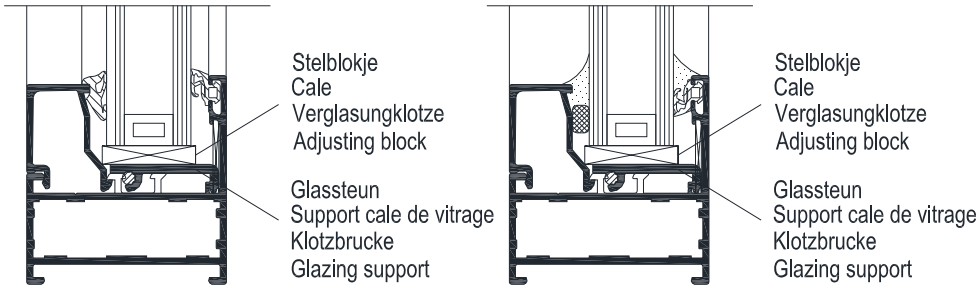

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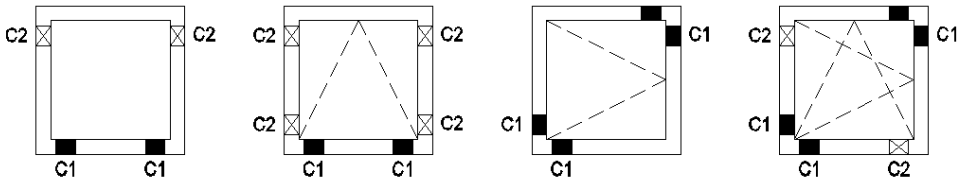

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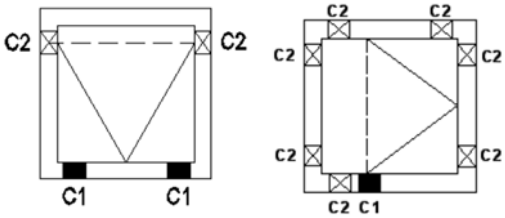

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VERARBEITUNGSVORSCHRIFTEN

I .ALLGEMEIN

Siehe Katalog “1. Allgemeine Information (089.C01E.00 Ausgabe 11/2004)

II.VERARBEITUNGSVORSCHRIFTEN ES 45-Pa

II.1 VERARBEITUNG

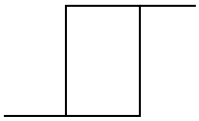
Um ein qualitativ hochwertiges Endprodukt zu erstellen, sollen bei der Verarbeitung folgende Punkte berücksichtigt werden:

II.1.1 Spanende Bearbeitungen

Mit spanenden Bearbeitungen sind alle mechanischen Bearbeitungen, wie Sägen, Fräsen, Bohren, Stanzen gemeint.
Bei allen mechanischen Bearbeitungen ist auf den Einsatz geeigneter Sägeblätter, Fräser und Bohrer zu achten, damit die Oberfläche nicht durch Grate oder abplatzende Beschichtung beschädigt wird.
Zur Profilbearbeitung geben wir folgende Hinweise:

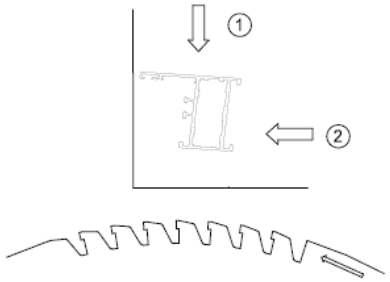
- Die spanabhebenden Werkzeuge müssen für den Werkstoff geeignet und ausreichend scharf sein.
- Die Maschinendrehzahl muss auf den Werkstoff Aluminium abgestimmt sein.
- Die Profilauflagen müssen sauber und spanfrei sein.
- Zur Verlängerung der Werkzeugstandzeiten können geeignete Gleitmittel, wie :
  der Fettstift (Art.-Nr. 086.9191.--);
  das Reynaers-Schneidmittel (Art.-Nr. 086.9175.--)
  oder die von den Maschinenlieferanten vorgeschriebenen Kühl- und Schneidmittel verwendet warden
- Die geeignete Spanbacken sollen angewandt werden (siehe Montagezeichnung ‘Spanbacken Säge’)
- der Auflage- und Ablauftisch soll frei von Spänen und Verunreinigungen sein;
  Diese Kühl- und Schneidmittel müssen chemisch neutrale Produkte sein, die die Oberfläche nicht angreifen.

Position/Klemmung der Profile während des Zersägens :
Der Auflage-/Säge-Tisch sollte eine glatte und ebene Auflagefläche bieten. Der dahinterliegende Anschlag sollte exakt im Winkel von 90° positioniert sein. Auf dem Maschinentisch sollen keine Verunreinigungen, wie Sägespäne oder Kleberreste vorhanden sein.
Eine Fixierung der Profile erfolgt mittels Hand- oder pneumatischer Spannzylinder, welche von oben und von vorne auf das Profil wirken. Ein Verdrehen der Profile während des Sägevorganges ist durch den Einsatz von Schneidzulagen zu verhindern.

Bezugsseite ->  <- Bezugsseite

FALSCHE EINSPANNUNG

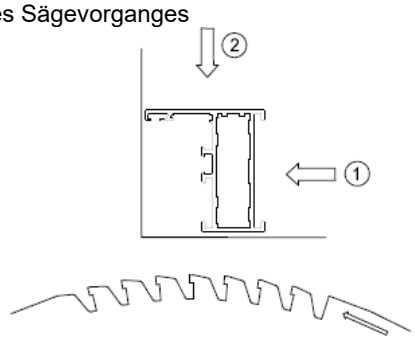
FEHLER: Da der Hauptdruck der Spannvorrichtung auf die Falzseite des zu sägenden Profils einwirkt, verdreht sich das Werkstück.
FOLGE: Schiefer Sägeschnitt. Die Aussenseite des Profils ist kurzer als die Innenseite.
ERGEBNIS: Beim Verpressen der Winkel ist die Gehrung an der Innenseite dicht, steht aber an der Aussenseite offen.



RICHTIGES SPANNEN

Der Hauptdruck der Spannvorrichtung wirkt ein auf die gesamte Fläche. Die Falzseite wird durch eine zweite Spannvorrichtung mit geringerer Kraft gehalten.
Durch diese korrekte Einspannung kann sich das Profil beim Sägevorgang nicht verdrehen.
Die Gehrung wird in der Eckverbindermaschine in der gleichen Art und Weise fixiert, so dass eine exakte Verbindung erreicht wird.

Anmerkung:
Es empfiehlt sich die Späne während des Sägevorganges



II.1.2 Profilverbindungen und deren Verarbeitung

1. In den Reynaers-Katalogen wird nach 4 Verarbeitungsschritten unterschieden
2. Entwässerung und Vorbereitung für den Beschlageinbau;
3. Eckverbindungen
   a) Presseckverbinder
   b) Schraubeckverbinder
4. Dichtungen.

1.2.1 Entwässerung, Belüftung und Bearbeitung für den Beschlageinbau

Verfahrensweise:
a. die Aussparungen markieren;
b. Korrekt stanzen, bohren oder fräsen.
c. Schutz der Schnittkanten:
   - Entgraten (falls erforderlich).
   - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
   - Entfetten der Profile (Reynafinish 60 Art.-Nr. 086.9210.--).
   - Reynastick (Art.-Nr. 086.9600.06) aufbringen.

Insbesondere ist auf folgendes zu achten:
Eventuell eingedrungenes Wasser muss problemlos und kontrolliert abgeleitet werden können.
Es sind entsprechende Dampfdruckausgleichsbohrungen vorzunehmen.

- Bei jedem Rahmen sind grundsätzlich zwei Entwässerungsbohrungen vorzunehmen.
  Diese sitzen max. 250 mm aus der Ecke (für spezifische Entwässerung : siehe Montagezeichnung ‘Entwässerung’) :
  Bei Rahmenbreiten bis 1000 mm sind 3 Öffnungen vorzusehen;
  bei Rahmenbreiten bis 1500 mm sind 4 Öffnungen vorzusehen
  Je weiteren 500 mm ist eine tzliche Öffnung vorzusehen.
  Für jede Glasoberfläche sollen mindestens 2 Entwässerungslöcher vorgesehen werden.
- Die Entwässerungsöffnungen sind grundsätzlich am tiefsten Punkt der Profilkontur anzubringen
- Die Mindestoberfläche der Entwässerungsöffnung beträgt 50 mm² pro Öffnung, wobei eine Bohrung von mind. 8 mm Durchmesser oder ein Schlitz von 5 x 15 mm vorzusehen ist.
- Alle sichtbaren Entwässerungsöffnungen müssen mit systemabhängigen Kunststoff-Abdeckkappen versehen werden, mit festen Fenstern wird immer das Abdeckkappe mit Ventil (069.6830.04) verwendet.
- Alle Rahmenkonstruktionen müssen im Solbankbereich bzw. an den horizontalen T-Profilen mit entsprechenden Ausnehmungen versehen werden.
- Mit festen Fenstern müssen beide T-förmigen Rippen lokal 8mm entfernt werden, um die Entwässerung des infiltriertes Wasser zu ermöglichen.
- Bei jedem Rahmen, außer die festen Rahmen mit oder ohne horizontalen oder vertikale Sprosse, sind grundsätzlich zwei Entlüftungsbohrungen vorzunehmen (siehe Montagezeichnung ‘*Dekompression*’) damit die Druckegalisierung rundum die Verglasung zu gewährleisten.
- An der Flügel- oder Rahmenoberkante sind Druckausgleichsöffnungen von mind. 5 mm Größe vorzunehmen.

1.2.2 T-Verbinder

Verfahrensweise (siehe Montagezeichnung '*T-Verbindung*') :

a. Korrekt zuschneiden der Sprosse.
b. anbringen von T-Verbindunglöcher (∅ 12mm: inneres halbprofil ∅ 3.5mm: ausseres halbprofil)
c. Abfräsen der Falzhöhe der Sprosse (Höhe 22 mm)
d. Schutz der Schnittkanten und bearbeiteten Oberflächen durch :
   - Entgraten (falls erforderlich).
   - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
   - Entfetten der Profile (Reynafinish 60 art. nr. 086.9210.--).
   - Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) aufbringen.
e. Abdichtung: der Bereich im T-Stoss sowie der Bereich der Befestigungsmittel ist durch den Einsatz geeigneter Dichtungsmittel wasserdicht auszuführen.
f. Abdichten der Zone unter der Sprosse auf dem Blendrahmen, außer die horizontale Sprosse mit festen Rahmen, durch das Anbringen von Abdichtungselementen oder einem geeigneten Dichtungsmittel. Diese sollen wasserdicht ausgeführt werden.
   Anmerkung :
   Eine Ausnahme ist möglich, wenn ein Druckausgleich und eine kontrollierte Entwässerung gewährleistet ist oder Reynaprotector (art.nr. 086.9208.SY).
g. Verbinden: nach dem Einbringen des T-Verbinders, der Kleber und Dichtungsmittel, werden die
h. Anbringen und befestigen von den Eckwinkeln (siehe Montagezeichnung Eckwinkel')
i. Nach dem Zusammenfügen müssen überschüssige Kleber und Dichtungsmittelreste auf den sichtbaren Seiten entfernt werden (Reynafinish 60 Art.-Nr. 086.9210.--).

1.2.3 Eckverbindungen

1.2.3.1 Presseckverbinder

Verfahrensweise (siehe Montagezeichnungen 'Eckverbindung Presseckwinkel') :

* Option A : Leiminjektion nach dem Pressen
** Option B : Leiminjektion vor dem Pressen

a. Korrekt zuschneiden
b. *anbringen von Löchern für Leiminjektion (∅ 3.5/4mm) (siehe Montagezeichnung 'Leiminjektion')
c. Schutz der Schnittkanten und bearbeiteten Oberflächen durch :
   - Entgraten (falls erforderlich).
   - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
   - Entfetten der Profile (Degreaser Art.-Nr. 086.9182.--).
   - Korrosionsschutzprodukt (Anticorro art.nr. 086.9610.--) aufbringen auf Schnittflächen.
d. ** Klebereinsatz in die Profilkammer : Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--) einbringen
e. Entfetten der Profile (Reynafinish 60 Art.-Nr. 086.9210.--)
f. Korrosionsschutzprodukt (art.nr. 086.9208.SY + 086.9225.--) aufbringen auf Schnittflächen; Trockenzeit: ca. 1 Stunde und Reynastick (Art.-Nr. 086.9600.06) auf Frässchnitte.
g. Anbringen von Presseckwinkeln und Fülleckwinkeln.
h. Verbinden und pressen (siehe Montagezeichnung 'Eckverbindungsmaschine')
i. * Leiminjektion auf der Höhe der Injektionslöcher mittels Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--).
j. Ausgetretener Kleber oder Dichtungsmittelreste müssen von den Sichtseiten entfernt werden (Reynaclean Art.-Nr. 086.9210.--).

1.2.3.2 Schrauben verbinder

Verfahrensweise (siehe Montagezeichnung „*Eckverbindung Schraubwinkel*"):

* Option A : Leiminjektion nach dem Einschrauben
** Option B : Leiminjektion vor dem Einschrauben

a. Korrekt zuschneiden
b. *anbringen von Schraubenlöcher
c. Schützen der Sägeschnitte und bearbeiteten Flächen durch:
   -Entgraten (falls erforderlich);
   -Schnittfläche und Profilkammer von Staub und Sägerückständen säubern;
   -Entfetten (Reynafinish 60, Art.Nr. 086.9210.--);
   -Korrosionsschutzprodukt (art.nr. 086.9208.SY + 086.9225.--) aufbringen auf Schnittflächen;
   Trockenzeit: ca. 1 Stunde und Reynastick (Art.-Nr. 086.9600.06) auf Frässchnitte.
d. ** Klebereinsatz in die Profilkammer : Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--) einbringen
e. Anbringen von Schraubeckwinkeln und Fülleckwinkeln.
f. Verbinden und schrauben (Innensechskantschlüssel 4) und stiften

g. * Leiminjektion auf der Höhe der Injektionslöcher mittels Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--).
h. Ausgetretener Kleber oder Dichtungsmittelreste müssen von den Sichtseiten entfernt werden (Reynaclean Art.-Nr. 086.9210.--).

1.2.4 Dichtungen

Alle angebotenen Dichtungsprofile bestehen aus EPDM mit einer hohen Alterungs und Witterungsbeständigkeit.
Die Verarbeitung der Dichtungen hat sorgfältig und entsprechend den folgenden Hinweisen zu erfolgen:

B

a.Einbringen der Mitteldichtung

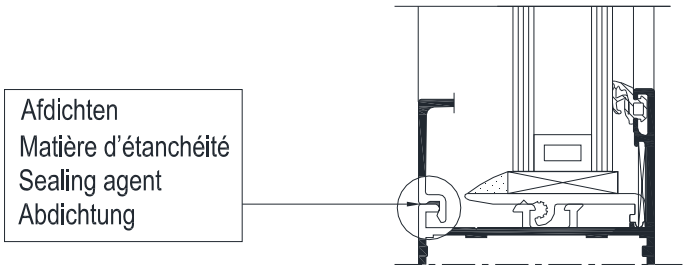
Verfahrensweise (siehe Montagezeichnungen 'Dichtung') :
1. Korrekt zuschneiden; die Mitteldichtung soll mit einer speziellen Schere (Art.-Nr. 090.0121.00) geschnitten werden. Um ein Schrumpfen der Dichtungen zu vermeiden, sind diese je lfdm. ca. 10 mm länger zuzuschneiden.
2. Das Einbringen der Dichtung erfolgt in die vorgesehenen Dichtungsaufnahmen. Beim Einbringen der Dichtungen wird der überlange Zuschnitt durch stauchen der Dichtungprofile ausgeglichen. Durch die Anwendung des Silikonssprays (Art.-Nr. 086.9551.--) wird das Einbringen der Dichtungen erleichtert.
3. Verkleben (abdichten): Die Dichtungsecken oder -stöße sollen grundsätzlich mit einem Vulkanisierkleber (Art.-Nr. 084.9103.-- Unionzement) verklebt werden. Der Einsatz dieses Klebers verhindert das Aushärten der Dichtungen im Stossbereich.

b.Einbringen der Türdichtung

Verfahrensweise (siehe *Montagezeichnung 'Dichtung'*)
1. Korrekt zuschneiden: die Dichtung wird mit einer speziellen Schere (Art.-Nr. 090.0121.UN) gerade abgeschnitten und im oberen Bereich mittig gestossen. Das Dichtungsprofil läuft in den Ecken durch. Der Zuschnitt entspricht dem Flügelaussenmass. (Ein kleiner Schnitt in den Ecken wird das Biegen der Dichtung erleichtern) Je lfdm. Dichtungslänge werden 10 mm Überlänge hinzugerechnet.
2. Das Einbringen der Dichtung erfolgt in die vorgesehenen Dichtungsaufnahmen. Beim Einbringen der Dichtungen wird der überlange Zuschnitt durch stauchen der Dichtungprofile ausgeglichen. Durch die Anwendung des Silikonssprays (Art.-Nr. 086.9551.--) wird das Einbringen der Dichtungen erleichtert.
3. Im Beschlagbereich muss die Dichtung entsprechend den Beschlageinbauzeichnungen eingeschnitten werden. Die Dichtung wird unter dem Band zusammengefaltet.
4. Der Dichtungsstoss ist mit unserem Vulkanisierkleber (Art.-Nr. 084.9103.--) zu verbinden.

c. Einbringen der Verglasungsdichtung

Verfahrensweise (siehe Montagezeichnung (Dichtung')
1. Korrekt zuschneiden: Die Verglasungsdichtung wird je nach Erfordernis mit einer speziellen Schere (Art.-Nr. 090.0121.UN) gerade oder auf Gehrung zugeschnitten. Je lfdm. Dichtung ist eine Überlänge von 10 mm hinzuzurechnen.
2. Das Einbringen der Dichtung erfolgt in die vorgesehenen Dichtungsaufnahmen. Beim Einbringen der Dichtungen wird der überlange Zuschnitt durch stauchen der Dichtungprofile ausgeglichen. Durch die Anwendung des Silikonssprays (Art.-Nr. 086.9551.--) wird das Einbringen der Dichtungen erleichtert.
3. Verkleben (abdichten): Die Gehrungs- oder T-Stösse der Dichtungen sollen grundsätzlich mit unserem Vulkanisierkleber (Art.-Nr. 084.9103.--) verklebt werden. Der Einsatz dieses Klebers verhindert das Aushärten der Dichtungen im Stossbereich.



II.2 MONTAGE

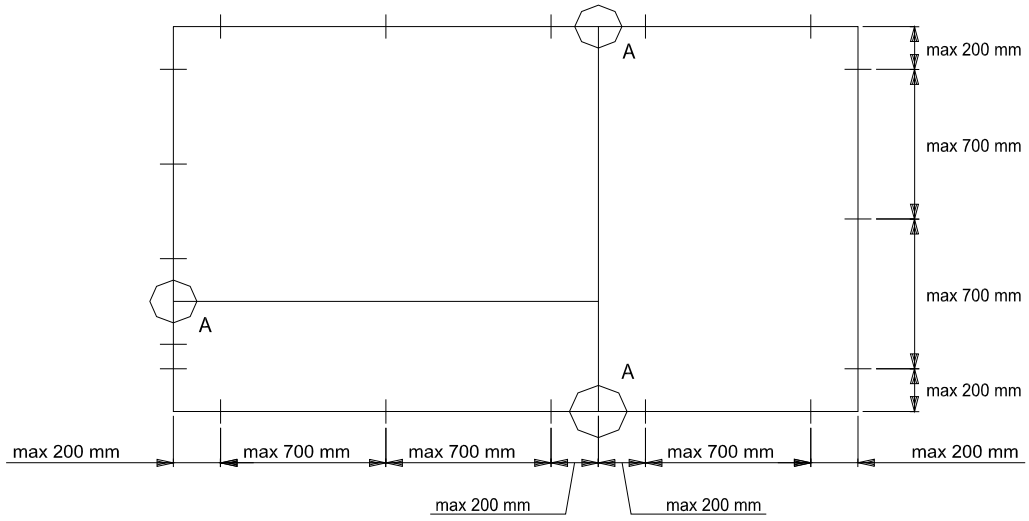
II.2.1 Lagerung

Die Lagerung nicht verarbeiteter oder verarbeiteter Elemente muss in jedem Fall in einem trockenen, frostfreien Raum erfolgen.

II.2.2 Befestigung am Baukörper

Die Befestigung am Baukörper erfolgt durch systemabhängige Befestigungsanker, Rohrrahmendübel oder andere Befestigungsteile.

- Beim Einsatz von Schrauben und Dübeln ist zu gewährleisten, dass die Mindestrandabstände gemäss den Verarbeitungsrichtlinien der Befestigungshersteller eingehalten werden
- Die Verankerung ist so zu wählen, dass die auf die Fensterkonstruktion einwirkenden Lasten sicher an den Baukörper abgeleitet werden.
- Alle zum Einsatz kommenden Verankerungen sollen aus Aluminium oder Edelstahl bzw. korrosionsgeschützt sein, damit die Aluminiumprofile nicht angegriffen werden.
- Die Anzahl der Befestigungspunkte ist wie folgt festzulegen:



Je Rahmenseite müssen mind. zwei Befestigungen eingebracht werden.

- Der max. Abstand zur Rahmenecke darf 200 mm nicht unterschreiten.
- Der max. Abstand der Befestigungspunkte untereinander darf 700 mm nicht unterschreiten.
- Im Bereich von Pfosten- und Riegelanschluss sind die Befestigungspunkte ebenfalls 200 mm aus der Ecke vorzunehmen.
- Es wird empfohlen, die Befestigungspunkte in den Bereich der Eck- und Scherenlager bzw. der Türbänder sowie im Bereich der Verriegelungspunkte (des Schlosses) zu legen.

Anmerkung:
Die Befestigungen sollen so angebracht werden, dass ein eventuelles Arbeiten der Aluminiumelemente aufgenommen werden kann

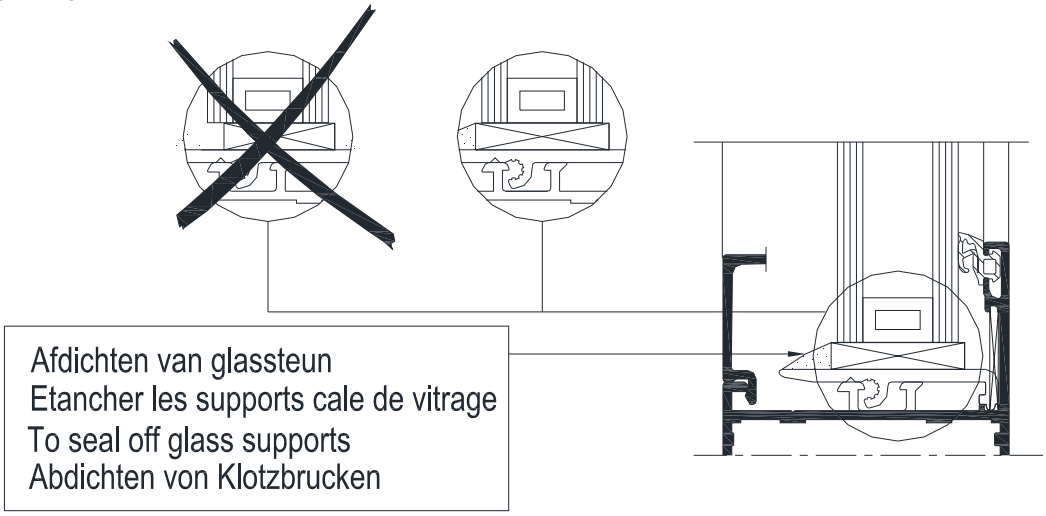
II.2.3 Einbau der Beschläge

Die Auswahl der Beschläge hat entsprechend den Vorgaben des Systemlieferanten bzw. des Herstellers der Beschläge zu erfolgen. Die hier angegebenen Werte bzgl. der max. Flügelabmessungen, des max. Flügelgewichtes, der Anzahl der Verschlusspunkte und der Anzahl der Türbänder sind einzuhalten. Bewegliche Teile sind, entsprechend den Angaben des Beschlagherstellers, mit säurefreiem Fett zu versehen. Eine Funktionsprüfung der Beschläge ist
nach erfolgter Fertigung und Montage unerlässlich.

II.3 VERGLASUNG

Alle Reynaers-Systeme können mit speziellen EPDM-Dichtprofilen als Trockenverglasung oder als Nassverglasung (Silikon) auf Vorlegeband mit Vorprimern verarbeitet werden.
Wir empfehlen den Einsatz unserer EPDM-Dichtprofile, da diese leicht zu verarbeiten sind und den Austausch beschädigter Verglasungen oder Paneele erleichtern.

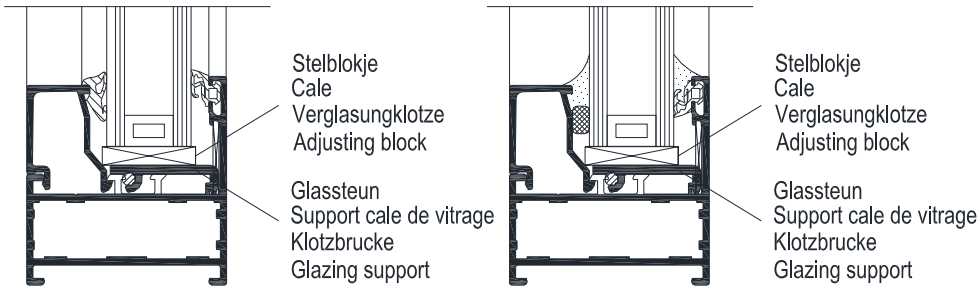
Bei der Verglasung müssen folgende Punkte berücksichtigt werden:
- Verglasungen oder Paneelen sollten so gemessen sein, dass mind. eine umlaufende Falzluft von 12 mm vorhanden ist. Für alle Reynaers-Systeme stehen sogenannte Klotzbrücken zur Verfügung.
- Diese überbrücken den Falzgrund, so dass die Luft um die Scheibe zirkulieren kann, und bieten durch ihre glatte Oberfläche eine saubere Auflage für die einzubringenden Verglasungsklötze.
- Die Verglasungsklötze sollten mind. 2 mm breiter als die Gesamtscheibenstärke sein.



Befestigung der Verglasung

Direkter Kontakt zwischen der Glasfüllung und dem Aluminiumrahmen soll vermieden werden, es sollten immer Verglasungsklötze und Dichtungen Anwendung finden.
Dieses Kontakt wird vermieden durch das Verklotzen der Verglasung. Auf diese Weise bekommt man ebenso eine richtige Aufstellung der Verglasung und das Eigengewicht des Glases wird auf eine korrekte Weise (auf den Bänder oder Laufräder) übertragen. Eventuelle Verformung des Flügels wird ebenso vermieden.

Damit die Befestigung zu erleichtern verfügt Reynaers über Glasauflageprofile die angewandt werden um die Falzbasis auszugleichen. Rechteckige Verglasungsklötze können jetzt aufgestellt werden.



Die Anzahl und die Position der Klotzbrücken bzw. Verglasungsklötze wird durch Verarbeitungsvorschriften der Isolierglasindustrie und technische Richtlinien des Glaserhandwerks vorgegeben.
Überzicht:

Bei der Verglasung unterscheiden wir Trag- und Distanzklötzen. Die Verglasungsklötze sind gegen Verrutschen zu sichern.

Tragklötze ■

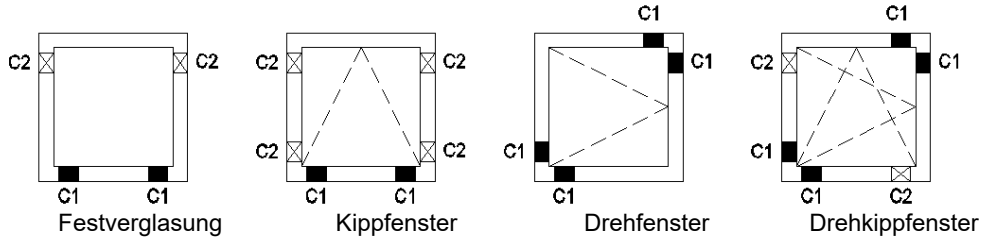
Distanzklötze ☒

C1: Die Stützklötze
übertragen das Scheibengewicht auf den Rahmen bzw. Flügel und stellen die Gangbarkeit derbeweglichen Flügel sicher.

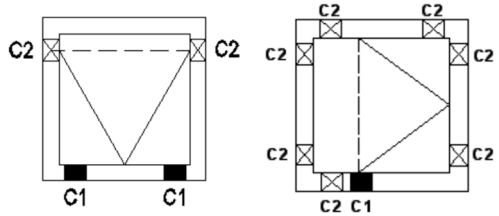
C1': Glasauflageprofile + Stützklötze
Diese Kombinationen von Glasauflageprofile und Stützklötze übertragen das Scheibengewicht auf den Rahmen bzw. Flügel und stellen die Gangbarkeit der beweglichen Flügel sicher.

C2: Die Distanzklötze
Stellen den Abstand zwischen Rahmen und Verglasung sicher. Je nach Flügelöffnungsart können diese auch eine tragende Funktion übernehmen.

Nachstehend eine Übersicht über den Sitz und die Anzahl der Verglasungsklötze in den verschiedenen Fenstertypen.



Festverglasung Kippfenster Drehfenster Drehkippfenster



Senkklappfenster Drehschiebefenster

Bei Drehfenster wird das Glas diagonal geklotzt, von der unteren Bandecke zu der gegenüberliegenden Oberseite (siehe Zeichnung Drehfenster).
Als Kontrolle für das richtige Klotzen, können auf der oberen verklotzten Ecke zwei Bleistiftlinien angezeichnet werden.
Nach dem öffnen des Fensters sind diese Linien sichtbar und es kann der Flügelüberschlag gemessen werden.

VERARBEITUNGSVORSCHRIFTEN

I .ALLGEMEIN

Siehe Katalog “1. Allgemeine Information (089.C01E.00 Ausgabe 11/2004)

II.VERARBEITUNGSVORSCHRIFTEN ES 45-Pa

II.1 VERARBEITUNG

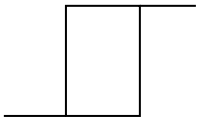
Um ein qualitativ hochwertiges Endprodukt zu erstellen, sollen bei der Verarbeitung folgende Punkte berücksichtigt werden:

II.1.1 Spanende Bearbeitungen

Mit spanenden Bearbeitungen sind alle mechanischen Bearbeitungen, wie Sägen, Fräsen, Bohren, Stanzen gemeint.
Bei allen mechanischen Bearbeitungen ist auf den Einsatz geeigneter Sägeblätter, Fräser und Bohrer zu achten, damit die Oberfläche nicht durch Grate oder abplatzende Beschichtung beschädigt wird.
Zur Profilbearbeitung geben wir folgende Hinweise:

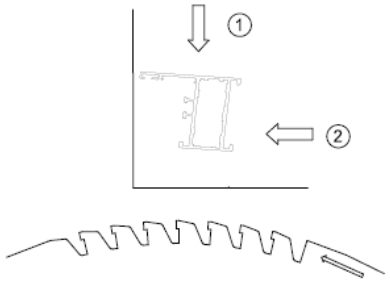
- Die spanabhebenden Werkzeuge müssen für den Werkstoff geeignet und ausreichend scharf sein.
- Die Maschinendrehzahl muss auf den Werkstoff Aluminium abgestimmt sein.
- Die Profilauflagen müssen sauber und spanfrei sein.
- Zur Verlängerung der Werkzeugstandzeiten können geeignete Gleitmittel, wie :
  der Fettstift (Art.-Nr. 086.9191.--);
  das Reynaers-Schneidmittel (Art.-Nr. 086.9175.--)
  oder die von den Maschinenlieferanten vorgeschriebenen Kühl- und Schneidmittel verwendet warden
- Die geeignete Spanbacken sollen angewandt werden (siehe Montagezeichnung ‘Spanbacken Säge’)
- der Auflage- und Ablauftisch soll frei von Spänen und Verunreinigungen sein;
  Diese Kühl- und Schneidmittel müssen chemisch neutrale Produkte sein, die die Oberfläche nicht angreifen.

Position/Klemmung der Profile während des Zersägens :
Der Auflage-/Säge-Tisch sollte eine glatte und ebene Auflagefläche bieten. Der dahinterliegende Anschlag sollte exakt im Winkel von 90° positioniert sein. Auf dem Maschinentisch sollen keine Verunreinigungen, wie Sägespäne oder Kleberreste vorhanden sein.
Eine Fixierung der Profile erfolgt mittels Hand- oder pneumatischer Spannzylinder, welche von oben und von vorne auf das Profil wirken. Ein Verdrehen der Profile während des Sägevorganges ist durch den Einsatz von Schneidzulagen zu verhindern.

Bezugsseite ->  <- Bezugsseite

FALSCHE EINSPANNUNG

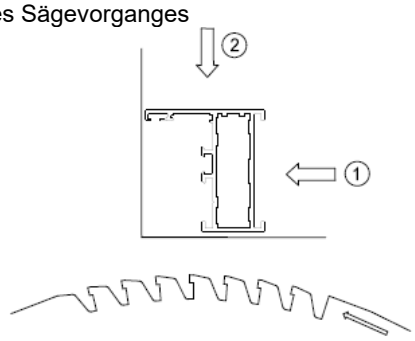
FEHLER: Da der Hauptdruck der Spannvorrichtung auf die Falzseite des zu sägenden Profils einwirkt, verdreht sich das Werkstück.
FOLGE: Schiefer Sägeschnitt. Die Aussenseite des Profils ist kurzer als die Innenseite.
ERGEBNIS: Beim Verpressen der Winkel ist die Gehrung an der Innenseite dicht, steht aber an der Aussenseite offen.



RICHTIGES SPANNEN

Der Hauptdruck der Spannvorrichtung wirkt ein auf die gesamte Fläche. Die Falzseite wird durch eine zweite Spannvorrichtung mit geringerer Kraft gehalten.
Durch diese korrekte Einspannung kann sich das Profil beim Sägevorgang nicht verdrehen.
Die Gehrung wird in der Eckverbindermaschine in der gleichen Art und Weise fixiert, so dass eine exakte Verbindung erreicht wird.

Anmerkung:
Es empfiehlt sich die Späne während des Sägevorganges



II.1.2 Profilverbindungen und deren Verarbeitung

1. In den Reynaers-Katalogen wird nach 4 Verarbeitungsschritten unterschieden
2. Entwässerung und Vorbereitung für den Beschlageinbau;
3. Eckverbindungen
   a) Presseckverbinder
   b) Schraubeckverbinder
4. Dichtungen.

1.2.1 Entwässerung, Belüftung und Bearbeitung für den Beschlageinbau

Verfahrensweise:
a. die Aussparungen markieren;
b. Korrekt stanzen, bohren oder fräsen.
c. Schutz der Schnittkanten:
   - Entgraten (falls erforderlich).
   - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
   - Entfetten der Profile (Reynafinish 60 Art.-Nr. 086.9210.--).
   - Reynastick (Art.-Nr. 086.9600.06) aufbringen.

Insbesondere ist auf folgendes zu achten:
Eventuell eingedrungenes Wasser muss problemlos und kontrolliert abgeleitet werden können.
Es sind entsprechende Dampfdruckausgleichsbohrungen vorzunehmen.

- Bei jedem Rahmen sind grundsätzlich zwei Entwässerungsbohrungen vorzunehmen.
  Diese sitzen max. 250 mm aus der Ecke (für spezifische Entwässerung : siehe Montagezeichnung ‘Entwässerung’) :
  Bei Rahmenbreiten bis 1000 mm sind 3 Öffnungen vorzusehen;
  bei Rahmenbreiten bis 1500 mm sind 4 Öffnungen vorzusehen
  Je weiteren 500 mm ist eine tzliche Öffnung vorzusehen.
  Für jede Glasoberfläche sollen mindestens 2 Entwässerungslöcher vorgesehen werden.
- Die Entwässerungsöffnungen sind grundsätzlich am tiefsten Punkt der Profilkontur anzubringen
- Die Mindestoberfläche der Entwässerungsöffnung beträgt 50 mm² pro Öffnung, wobei eine Bohrung von mind. 8 mm Durchmesser oder ein Schlitz von 5 x 15 mm vorzusehen ist.
- Alle sichtbaren Entwässerungsöffnungen müssen mit systemabhängigen Kunststoff-Abdeckkappen versehen werden, mit festen Fenstern wird immer das Abdeckkappe mit Ventil (069.6830.04) verwendet.
- Alle Rahmenkonstruktionen müssen im Solbankbereich bzw. an den horizontalen T-Profilen mit entsprechenden Ausnehmungen versehen werden.
- Mit festen Fenstern müssen beide T-förmigen Rippen lokal 8mm entfernt werden, um die Entwässerung des infiltriertes Wasser zu ermöglichen.
- Bei jedem Rahmen, außer die festen Rahmen mit oder ohne horizontalen oder vertikale Sprosse, sind grundsätzlich zwei Entlüftungsbohrungen vorzunehmen (siehe Montagezeichnung ‘*Dekompression*’) damit die Druckegalisierung rundum die Verglasung zu gewährleisten.
- An der Flügel- oder Rahmenoberkante sind Druckausgleichsöffnungen von mind. 5 mm Größe vorzunehmen.

1.2.2 T-Verbinder

Verfahrensweise (siehe Montagezeichnung '*T-Verbindung*') :

a. Korrekt zuschneiden der Sprosse.
b. anbringen von T-Verbindunglöcher (∅ 12mm: inneres halbprofil ∅ 3.5mm: ausseres halbprofil)
c. Abfräsen der Falzhöhe der Sprosse (Höhe 22 mm)
d. Schutz der Schnittkanten und bearbeiteten Oberflächen durch :
   - Entgraten (falls erforderlich).
   - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
   - Entfetten der Profile (Reynafinish 60 art. nr. 086.9210.--).
   - Reynaprotector (art.nr. 086.9208.SY + 086.9225.--) aufbringen.
e. Abdichtung: der Bereich im T-Stoss sowie der Bereich der Befestigungsmittel ist durch den Einsatz geeigneter Dichtungsmittel wasserdicht auszuführen.
f. Abdichten der Zone unter der Sprosse auf dem Blendrahmen, außer die horizontale Sprosse mit festen Rahmen, durch das Anbringen von Abdichtungselementen oder einem geeigneten Dichtungsmittel. Diese sollen wasserdicht ausgeführt werden.
   Anmerkung :
   Eine Ausnahme ist möglich, wenn ein Druckausgleich und eine kontrollierte Entwässerung gewährleistet ist oder Reynaprotector (art.nr. 086.9208.SY).
g. Verbinden: nach dem Einbringen des T-Verbinders, der Kleber und Dichtungsmittel, werden die
h. Anbringen und befestigen von den Eckwinkeln (siehe Montagezeichnung Eckwinkel')
i. Nach dem Zusammenfügen müssen überschüssige Kleber und Dichtungsmittelreste auf den sichtbaren Seiten entfernt werden (Reynafinish 60 Art.-Nr. 086.9210.--).

1.2.3 Eckverbindungen

1.2.3.1 Presseckverbinder

Verfahrensweise (siehe Montagezeichnungen 'Eckverbindung Presseckwinkel') :

* Option A : Leiminjektion nach dem Pressen
** Option B : Leiminjektion vor dem Pressen

a. Korrekt zuschneiden
b. *anbringen von Löchern für Leiminjektion (∅ 3.5/4mm) (siehe Montagezeichnung 'Leiminjektion')
c. Schutz der Schnittkanten und bearbeiteten Oberflächen durch :
   - Entgraten (falls erforderlich).
   - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
   - Entfetten der Profile (Degreaser Art.-Nr. 086.9182.--).
   - Korrosionsschutzprodukt (Anticorro art.nr. 086.9610.--) aufbringen auf Schnittflächen.
d. ** Klebereinsatz in die Profilkammer : Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--) einbringen
e. Entfetten der Profile (Reynafinish 60 Art.-Nr. 086.9210.--)
f. Korrosionsschutzprodukt (art.nr. 086.9208.SY + 086.9225.--) aufbringen auf Schnittflächen; Trockenzeit: ca. 1 Stunde und Reynastick (Art.-Nr. 086.9600.06) auf Frässchnitte.
g. Anbringen von Presseckwinkeln und Fülleckwinkeln.
h. Verbinden und pressen (siehe Montagezeichnung 'Eckverbindungsmaschine')
i. * Leiminjektion auf der Höhe der Injektionslöcher mittels Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--).
j. Ausgetretener Kleber oder Dichtungsmittelreste müssen von den Sichtseiten entfernt werden (Reynaclean Art.-Nr. 086.9210.--).

1.2.3.2 Schrauben verbinder

Verfahrensweise (siehe Montagezeichnung „*Eckverbindung Schraubwinkel*"):

* Option A : Leiminjektion nach dem Einschrauben
** Option B : Leiminjektion vor dem Einschrauben

a. Korrekt zuschneiden
b. *anbringen von Schraubenlöcher
c. Schützen der Sägeschnitte und bearbeiteten Flächen durch:
   -Entgraten (falls erforderlich);
   -Schnittfläche und Profilkammer von Staub und Sägerückständen säubern;
   -Entfetten (Reynafinish 60, Art.Nr. 086.9210.--);
   -Korrosionsschutzprodukt (art.nr. 086.9208.SY + 086.9225.--) aufbringen auf Schnittflächen;
   Trockenzeit: ca. 1 Stunde und Reynastick (Art.-Nr. 086.9600.06) auf Frässchnitte.
d. ** Klebereinsatz in die Profilkammer : Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--) einbringen
e. Anbringen von Schraubeckwinkeln und Fülleckwinkeln.
f. Verbinden und schrauben (Innensechskantschlüssel 4) und stiften

g. * Leiminjektion auf der Höhe der Injektionslöcher mittels Zweikomponentenkleber (z.B. Reynaseal duo Art.-Nr. 084.9080.--).
h. Ausgetretener Kleber oder Dichtungsmittelreste müssen von den Sichtseiten entfernt werden (Reynaclean Art.-Nr. 086.9210.--).

1.2.4 Dichtungen

Alle angebotenen Dichtungsprofile bestehen aus EPDM mit einer hohen Alterungs und Witterungsbeständigkeit.
Die Verarbeitung der Dichtungen hat sorgfältig und entsprechend den folgenden Hinweisen zu erfolgen:

B

a.Einbringen der Mitteldichtung

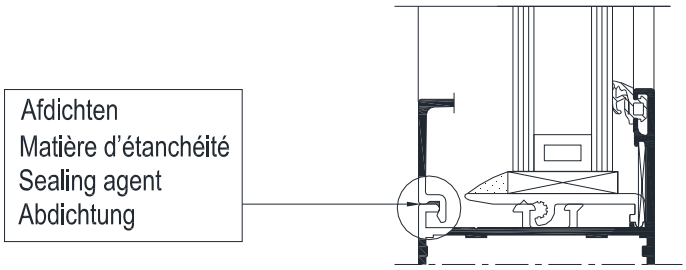
Verfahrensweise (siehe Montagezeichnungen 'Dichtung') :
1. Korrekt zuschneiden; die Mitteldichtung soll mit einer speziellen Schere (Art.-Nr. 090.0121.00) geschnitten werden. Um ein Schrumpfen der Dichtungen zu vermeiden, sind diese je lfdm. ca. 10 mm länger zuzuschneiden.
2. Das Einbringen der Dichtung erfolgt in die vorgesehenen Dichtungsaufnahmen. Beim Einbringen der Dichtungen wird der überlange Zuschnitt durch stauchen der Dichtungprofile ausgeglichen. Durch die Anwendung des Silikonssprays (Art.-Nr. 086.9551.--) wird das Einbringen der Dichtungen erleichtert.
3. Verkleben (abdichten): Die Dichtungsecken oder -stöße sollen grundsätzlich mit einem Vulkanisierkleber (Art.-Nr. 084.9103.-- Unionzement) verklebt werden. Der Einsatz dieses Klebers verhindert das Aushärten der Dichtungen im Stossbereich.

b.Einbringen der Türdichtung

Verfahrensweise (siehe *Montagezeichnung 'Dichtung'*)
1. Korrekt zuschneiden: die Dichtung wird mit einer speziellen Schere (Art.-Nr. 090.0121.UN) gerade abgeschnitten und im oberen Bereich mittig gestossen. Das Dichtungsprofil läuft in den Ecken durch. Der Zuschnitt entspricht dem Flügelaussenmass. (Ein kleiner Schnitt in den Ecken wird das Biegen der Dichtung erleichtern) Je lfdm. Dichtungslänge werden 10 mm Überlänge hinzugerechnet.
2. Das Einbringen der Dichtung erfolgt in die vorgesehenen Dichtungsaufnahmen. Beim Einbringen der Dichtungen wird der überlange Zuschnitt durch stauchen der Dichtungprofile ausgeglichen. Durch die Anwendung des Silikonssprays (Art.-Nr. 086.9551.--) wird das Einbringen der Dichtungen erleichtert.
3. Im Beschlagbereich muss die Dichtung entsprechend den Beschlageinbauzeichnungen eingeschnitten werden. Die Dichtung wird unter dem Band zusammengefaltet.
4. Der Dichtungsstoss ist mit unserem Vulkanisierkleber (Art.-Nr. 084.9103.--) zu verbinden.

c. Einbringen der Verglasungsdichtung

Verfahrensweise (siehe Montagezeichnung (Dichtung')
1. Korrekt zuschneiden: Die Verglasungsdichtung wird je nach Erfordernis mit einer speziellen Schere (Art.-Nr. 090.0121.UN) gerade oder auf Gehrung zugeschnitten. Je lfdm. Dichtung ist eine Überlänge von 10 mm hinzuzurechnen.
2. Das Einbringen der Dichtung erfolgt in die vorgesehenen Dichtungsaufnahmen. Beim Einbringen der Dichtungen wird der überlange Zuschnitt durch stauchen der Dichtungprofile ausgeglichen. Durch die Anwendung des Silikonssprays (Art.-Nr. 086.9551.--) wird das Einbringen der Dichtungen erleichtert.
3. Verkleben (abdichten): Die Gehrungs- oder T-Stösse der Dichtungen sollen grundsätzlich mit unserem Vulkanisierkleber (Art.-Nr. 084.9103.--) verklebt werden. Der Einsatz dieses Klebers verhindert das Aushärten der Dichtungen im Stossbereich.



II.2 MONTAGE

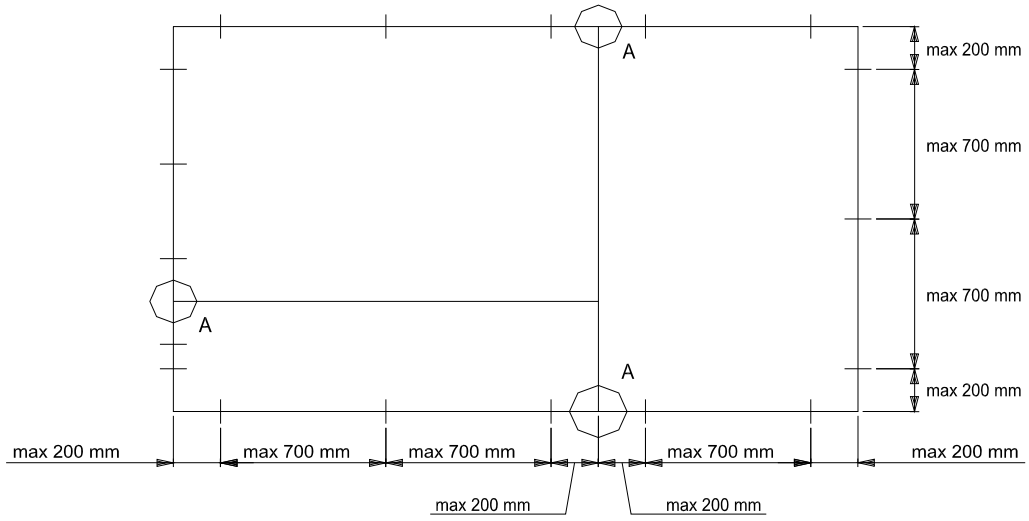
II.2.1 Lagerung

Die Lagerung nicht verarbeiteter oder verarbeiteter Elemente muss in jedem Fall in einem trockenen, frostfreien Raum erfolgen.

II.2.2 Befestigung am Baukörper

Die Befestigung am Baukörper erfolgt durch systemabhängige Befestigungsanker, Rohrrahmendübel oder andere Befestigungsteile.

- Beim Einsatz von Schrauben und Dübeln ist zu gewährleisten, dass die Mindestrandabstände gemäss den Verarbeitungsrichtlinien der Befestigungshersteller eingehalten werden
- Die Verankerung ist so zu wählen, dass die auf die Fensterkonstruktion einwirkenden Lasten sicher an den Baukörper abgeleitet werden.
- Alle zum Einsatz kommenden Verankerungen sollen aus Aluminium oder Edelstahl bzw. korrosionsgeschützt sein, damit die Aluminiumprofile nicht angegriffen werden.
- Die Anzahl der Befestigungspunkte ist wie folgt festzulegen:



Je Rahmenseite müssen mind. zwei Befestigungen eingebracht werden.

- Der max. Abstand zur Rahmenecke darf 200 mm nicht unterschreiten.
- Der max. Abstand der Befestigungspunkte untereinander darf 700 mm nicht unterschreiten.
- Im Bereich von Pfosten- und Riegelanschluss sind die Befestigungspunkte ebenfalls 200 mm aus der Ecke vorzunehmen.
- Es wird empfohlen, die Befestigungspunkte in den Bereich der Eck- und Scherenlager bzw. der Türbänder sowie im Bereich der Verriegelungspunkte (des Schlosses) zu legen.

Anmerkung:
Die Befestigungen sollen so angebracht werden, dass ein eventuelles Arbeiten der Aluminiumelemente aufgenommen werden kann

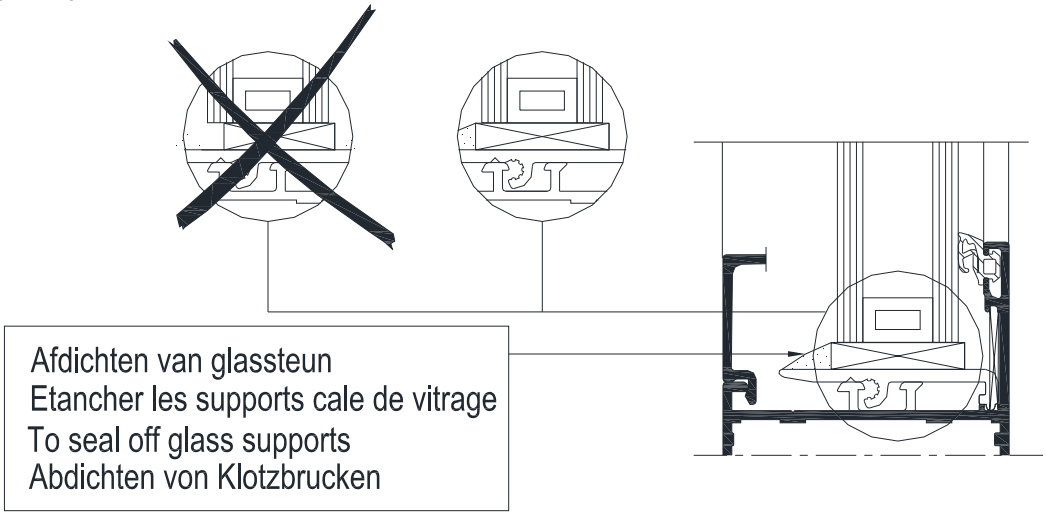
II.2.3 Einbau der Beschläge

Die Auswahl der Beschläge hat entsprechend den Vorgaben des Systemlieferanten bzw. des Herstellers der Beschläge zu erfolgen. Die hier angegebenen Werte bzgl. der max. Flügelabmessungen, des max. Flügelgewichtes, der Anzahl der Verschlusspunkte und der Anzahl der Türbänder sind einzuhalten. Bewegliche Teile sind, entsprechend den Angaben des Beschlagherstellers, mit säurefreiem Fett zu versehen. Eine Funktionsprüfung der Beschläge ist
nach erfolgter Fertigung und Montage unerlässlich.

II.3 VERGLASUNG

Alle Reynaers-Systeme können mit speziellen EPDM-Dichtprofilen als Trockenverglasung oder als Nassverglasung (Silikon) auf Vorlegeband mit Vorprimern verarbeitet werden.
Wir empfehlen den Einsatz unserer EPDM-Dichtprofile, da diese leicht zu verarbeiten sind und den Austausch beschädigter Verglasungen oder Paneele erleichtern.

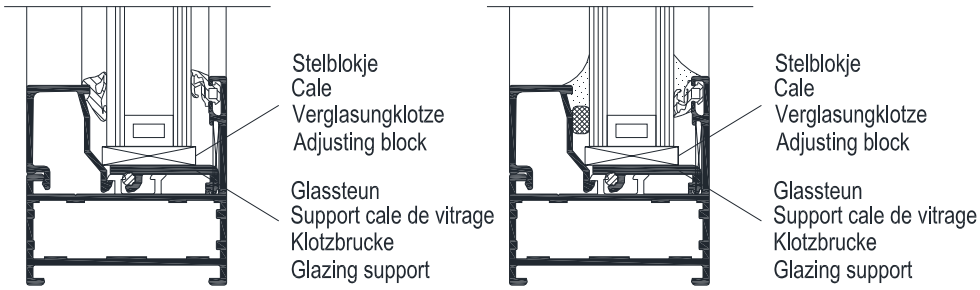
Bei der Verglasung müssen folgende Punkte berücksichtigt werden:
- Verglasungen oder Paneelen sollten so gemessen sein, dass mind. eine umlaufende Falzluft von 12 mm vorhanden ist. Für alle Reynaers-Systeme stehen sogenannte Klotzbrücken zur Verfügung.
- Diese überbrücken den Falzgrund, so dass die Luft um die Scheibe zirkulieren kann, und bieten durch ihre glatte Oberfläche eine saubere Auflage für die einzubringenden Verglasungsklötze.
- Die Verglasungsklötze sollten mind. 2 mm breiter als die Gesamtscheibenstärke sein.



Befestigung der Verglasung

Direkter Kontakt zwischen der Glasfüllung und dem Aluminiumrahmen soll vermieden werden, es sollten immer Verglasungsklötze und Dichtungen Anwendung finden.
Dieses Kontakt wird vermieden durch das Verklotzen der Verglasung. Auf diese Weise bekommt man ebenso eine richtige Aufstellung der Verglasung und das Eigengewicht des Glases wird auf eine korrekte Weise (auf den Bänder oder Laufräder) übertragen. Eventuelle Verformung des Flügels wird ebenso vermieden.

Damit die Befestigung zu erleichtern verfügt Reynaers über Glasauflageprofile die angewandt werden um die Falzbasis auszugleichen. Rechteckige Verglasungsklötze können jetzt aufgestellt werden.



Die Anzahl und die Position der Klotzbrücken bzw. Verglasungsklötze wird durch Verarbeitungsvorschriften der Isolierglasindustrie und technische Richtlinien des Glaserhandwerks vorgegeben.
Überzicht:

Bei der Verglasung unterscheiden wir Trag- und Distanzklötzen. Die Verglasungsklötze sind gegen Verrutschen zu sichern.

Tragklötze ■

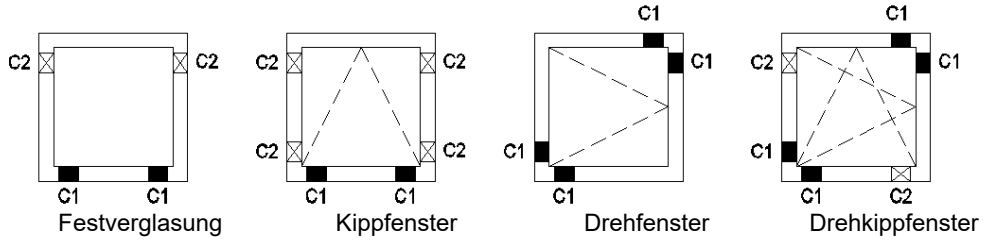
Distanzklötze ☒

C1: Die Stützklötze
übertragen das Scheibengewicht auf den Rahmen bzw. Flügel und stellen die Gangbarkeit derbeweglichen Flügel sicher.

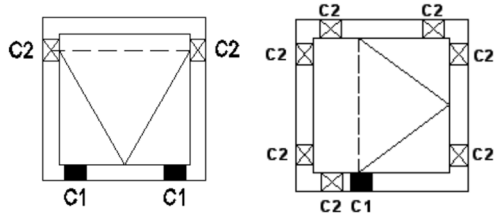
C1': Glasauflageprofile + Stützklötze
Diese Kombinationen von Glasauflageprofile und Stützklötze übertragen das Scheibengewicht auf den Rahmen bzw. Flügel und stellen die Gangbarkeit der beweglichen Flügel sicher.

C2: Die Distanzklötze
Stellen den Abstand zwischen Rahmen und Verglasung sicher. Je nach Flügelöffnungsart können diese auch eine tragende Funktion übernehmen.

Nachstehend eine Übersicht über den Sitz und die Anzahl der Verglasungsklötze in den verschiedenen Fenstertypen.



Festverglasung Kippfenster Drehfenster Drehkippfenster



Senkklappfenster Drehschiebefenster

Bei Drehfenster wird das Glas diagonal geklotzt, von der unteren Bandecke zu der gegenüberliegenden Oberseite (siehe Zeichnung Drehfenster).
Als Kontrolle für das richtige Klotzen, können auf der oberen verklotzten Ecke zwei Bleistiftlinien angezeichnet werden.
Nach dem öffnen des Fensters sind diese Linien sichtbar und es kann der Flügelüberschlag gemessen werden.

C

Reynaers Aluminium

Profielen
Profilés
Profiles
Profile

ES 45Pa

PROFIELLIJST
LISTE DES PROFILES
LIST OF PROFILES
PROFILLISTE

Reynaers Aluminium

Art. N°			Art. N°		
001.0071.XX	02D.C.003	D2000172	017.0189.XX	02D.C.025	D0081106
001.0071.XX	02D.C.017	D2000046	017.0190.XX	02D.C.004	D2000173
002.0609.XX	02D.C.003	D2000172	017.0190.XX	02D.C.025	D0081106
002.0609.XX	02D.C.017	D2000046	017.0193.XX	02D.C.004	D2000173
004.3140.17	02D.C.003	D2000172	017.0193.XX	02D.C.025	D0081106
004.3140.17	02D.C.022	D2000119	017.0197.XX	02D.C.004	D2000173
004.3310.XX	02D.C.002	D2000171	017.0197.XX	02D.C.025	D0081106
004.3310.XX	02D.C.016	D2000044	017.0198.XX	02D.C.004	D2000173
004.3328.XX	02D.C.002	D2000171	017.0198.XX	02D.C.025	D0081106
004.3328.XX	02D.C.015	D2000045	017.0199.XX	02D.C.004	D2000173
004.3329.XX	02D.C.002	D2000171	017.0199.XX	02D.C.026	D0081107
004.3329.XX	02D.C.016	D2000044	017.0201.XX	02D.C.004	D2000173
004.3846.XX	02D.C.003	D2000172	017.0201.XX	02D.C.027	D0081109
004.3846.XX	02D.C.021	D2000118	017.0202.XX	02D.C.004	D2000173
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010.0005.00	02D.C.019	D2000052	017.0203.XX	02D.C.004	D2000173
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010.0019.XX	02D.C.017	D2000046	017.0205.XX	02D.C.004	D2000173
010.0030.XX	02D.C.003	D2000172	017.0205.XX	02D.C.026	D0081107
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010.0136.XX	02D.C.006	D2000034	017.5003.XX	02D.C.024	D0081105
010.0140.XX	02D.C.001	D2000170	019.4904.XX	02D.C.003	D2000172
010.0140.XX	02D.C.007	D2000035	019.4904.XX	02D.C.020	D2000053
010.0183.XX	02D.C.001	D2000170	030.0138.00	02D.C.003	D2000172
010.0183.XX	02D.C.006	D2000034	030.0138.00	02D.C.020	D2000053
010.0192.XX	02D.C.001	D2000170	030.3196.XX	02D.C.002	D2000171
010.0192.XX	02D.C.009	D2000037	030.3196.XX	02D.C.016	D2000044
010.0412.XX	02D.C.001	D2000170	030.3197.XX	02D.C.002	D2000171
010.0412.XX	02D.C.011	D2000040	030.3197.XX	02D.C.016	D2000044
010.0492.XX	02D.C.001	D2000170	030.3621.XX	02D.C.002	D2000171
010.0492.XX	02D.C.011	D2000040	030.3621.XX	02D.C.016	D2000044
010.0813.XX	02D.C.001	D2000170	030.3704.XX	02D.C.002	D2000171
010.0813.XX	02D.C.013	D2000042	030.3704.XX	02D.C.015	D2000045
010.0885.XX	02D.C.003	D2000172	030.3705.XX	02D.C.002	D2000171
010.0885.XX	02D.C.020	D2000053	030.3705.XX	02D.C.015	D2000045
010.1101.XX	02D.C.001	D2000170	030.3706.XX	02D.C.002	D2000171
010.1101.XX	02D.C.008	D2000036	030.3706.XX	02D.C.015	D2000045
010.3701.XX	02D.C.001	D2000170	030.3707.XX	02D.C.002	D2000171
010.3701.XX	02D.C.008	D2000036	030.3707.XX	02D.C.015	D2000045
017.0077.XX	02D.C.023	D2000112	030.3708.XX	02D.C.002	D2000171
017.0110.XX	02D.C.023	D2000112	030.3708.XX	02D.C.015	D2000045
017.0120.XX	02D.C.023	D2000112	030.3709.XX	02D.C.002	D2000171
017.0121.XX	02D.C.023	D2000112	030.3709.XX	02D.C.015	D2000045
017.0127.XX	02D.C.004	D2000173	030.3712.XX	02D.C.002	D2000171
017.0127.XX	02D.C.024	D0081105	030.3712.XX	02D.C.015	D2000045
017.0128.XX	02D.C.023	D2000112	030.3714.XX	02D.C.002	D2000171
017.0129.XX	02D.C.004	D2000173	030.3714.XX	02D.C.016	D2000044
017.0129.XX	02D.C.024	D0081105	030.3715.XX	02D.C.002	D2000171
017.0131.XX	02D.C.023	D2000112	030.3715.XX	02D.C.016	D2000044
017.0189.XX	02D.C.004	D2000173	030.3716.XX	02D.C.002	D2000171

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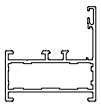
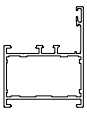
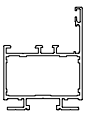
ES 45Pa

PROFIELLIJST
LISTE DES PROFILES
LIST OF PROFILES
PROFILLISTE

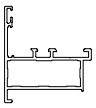
Art. N°			Art. N°		
030.3716.XX	02D.C.016	D2000044			
030.3717.XX	02D.C.002	D2000171			
030.3717.XX	02D.C.016	D2000044			
030.3718.XX	02D.C.002	D2000171			
030.3718.XX	02D.C.016	D2000044			
030.3719.XX	02D.C.002	D2000171			
030.3719.XX	02D.C.016	D2000044			

C

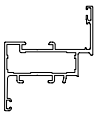
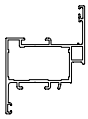
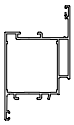
BUITENKADER
DORMANT
OUTER FRAME
BLENDRAHMEN

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0136.XX		26.10	7.7	7.00	7.578	3.532
010.0183.XX		28.10	9.7	7.00	8.935	6.803
010.0140.XX		33.15	8.9	7.00	9.233	8.621

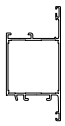
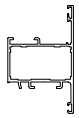
WISSELPROFIEL BUITENBEGLAZING
PROFILE INVERSION PARCLOSE
CHANGEOVER PROFILE OUTSIDE GLAZING
WECHSELPROFIL AUSSENVERGLASUNG

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.1101.XX		25.49	6.1	7.00	6.156	3.447
010.3701.XX		14.17	2.6	7.00	0.686	0.575

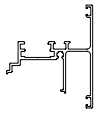
VLEUGEL
OUVRANT
VENT
FLUEGEL

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0102.XX		33.06	11.6	7.00	12.688	5.779
010.0192.XX		35.06	13.6	7.00	15.406	10.322
010.0112.XX		39.26	17.8	7.00	20.123	25.871

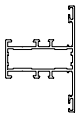
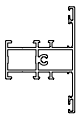
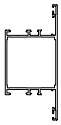
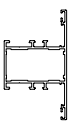
VLEUGEL NAAR BUITENDRAAIEND
OUVRANT OUVRANT VERS L'EXTERIEUR
VENT OUTWARD OPENING
FLUEGEL NACH AUSSEN OEFFNEND

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0412.XX		37.34	15.6	7.00	12.483	24.170
010.0492.XX		33.14	11.4	7.00	9.770	9.857

STOLPPROFIEL
BATTEE CENTRALE FENETRE DOUBLE OUVRANTE
DOUBLE CASEMENT PROFILE
STULPPROFIL

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0115.XX		38.68	7.0	7.00	7.475	4.455

DWARSPROFIEL
TRAVERSE
TRANSOM
RIEGELPROFIL

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0113.XX		34.70	10.3	7.00	8.843	6.711
010.0813.XX		34.70	10.3	7.00	8.484	6.662
010.0114.XX		40.90	16.5	7.00	12.955	27.104
010.0120.XX		36.70	12.3	7.00	10.240	11.472

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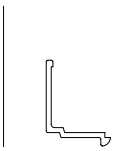
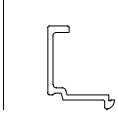
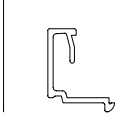
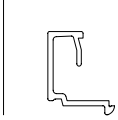
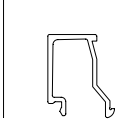
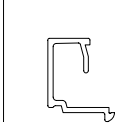
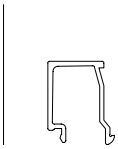
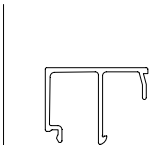
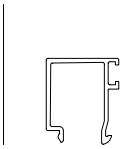
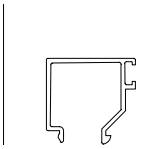
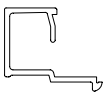
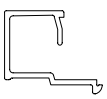
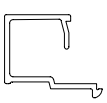
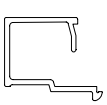
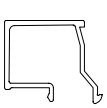
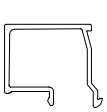
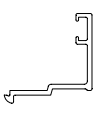
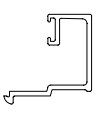
GLASLAT
PARCLOSE
GLAZING BEAD
GLASLEISTE

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
004.3328.XX		8.85	2.4	6.00	0.261	0.382
030.3705.XX		9.30	2.6	7.00	0.255	0.453
030.3704.XX		11.37	2.9	7.00	0.256	0.545
030.3706.XX		11.77	3.0	7.00	0.267	0.582
030.3707.XX		13.17	3.4	7.00	0.357	0.546
030.3708.XX		12.17	3.3	7.00	0.289	0.617
030.3709.XX		13.43	3.7	7.00	0.415	0.568
030.3712.XX		18.17	5.3	7.00	0.730	1.314
004.3329.XX		16.27	4.4	6.00	0.658	0.738
004.3310.XX		17.64	4.9	6.00	1.052	0.811

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
030.3621.XX		11.36	2.8	7.00	0.755	0.578
030.3715.XX		14.56	3.5	7.00	0.746	0.734
030.3714.XX		14.96	3.8	7.00	0.778	0.769
030.3716.XX		15.37	3.9	7.00	0.825	0.803
030.3718.XX		15.77	4.2	7.00	0.835	0.886
030.3717.XX		16.77	4.3	7.00	1.004	0.747
030.3719.XX		17.03	4.6	7.00	0.768	1.114
030.3196.XX		13.08	3.1	7.00	0.778	0.755
030.3197.XX		16.26	4.0	7.00	0.792	1.209

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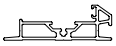
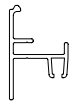
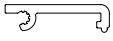
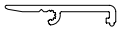
BODEMPROFIEL
PROFILE DE SEUIL
FLOOR PROFILE
SCHWELLE

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
001.0071.XX		8.08	4.1	6.00	0.812	0.010
010.0126.XX		21.13	6.5	7.00	7.770	0.722
010.0019.XX		10.84	3.3	7.00	0.289	0.392
002.0609.XX		7.95	1.8	6.00	0.189	0.227

BORSTELPROFIEL 21.5MM
PROFILE SUPPORT JOINT-BROSSE
SUPPORTING PROFILE BRUSH
ZUSATZPROFIL BUERSTENDICHTUNG

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0030.XX		12.31	2.1	7.00	0.472	0.200
010.0049.XX		17.08	3.5	7.00	0.753	0.717

GLASSTEUN 24.5MM
SUPPORT CALE DE VITRAGE
GLASS SUPPORT
GLASAUFLAGEPROFIL

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0005.00		7.40	-	7.00	0.017	0.379
010.0006.00		9.35	-	7.00	0.019	0.807

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
010.0885.XX		19.46	2.1	7.00	5.670	0.160
017.0210.XX		7.60	1.2	6.50	0.058	0.070
019.4904.XX		3.90	0.6	6.50	0.004	0.034
030.0138.00		-	-	7.00	-	-

CONDENSATIEGOOT + DRUPNEUS
RECUPERATEUR D'EAU + REJET D'EAU
CONDENSATION GUTTER + DRIP CAP
RINNE KONDENSATION + WETTERSCHENKEL

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
004.3846.XX		7.39	5.9	6.00	0.074	0.257

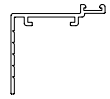
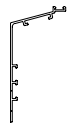
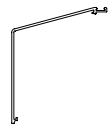
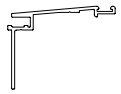
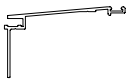
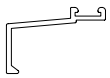
SLUITLAT
TRINGLE
LINK BAR
SCHUBSTANGE

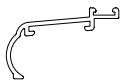
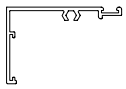
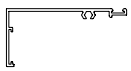
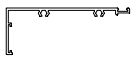
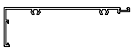
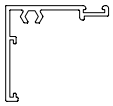
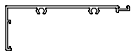
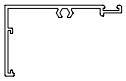
		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
004.3140.17		4.60	-	6.00	-	-

C

D2000172

AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

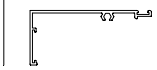
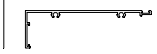
		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
017.0129.XX		19.23	6.9	6.50	2.539	1.450
017.0127.XX		32.97	12.3	6.50	20.830	4.778
017.5003.XX		35.06	15.2	6.50	28.875	21.672
017.0189.XX		22.21	4.8	6.50	2.178	5.036
017.0190.XX		26.20	10.2	6.50	2.527	12.024
017.0193.XX		39.15	15.8	6.50	1.487	47.355
017.0197.XX		10.63	3.7	6.50	0.224	0.785
017.0198.XX		19.00	7.3	6.50	0.613	0.006
017.0233.XX		16.90	5.6	6.50	0.101	4.063
017.0199.XX		25.81	10.7	6.50	0.843	19.870

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
017.0205.XX		33.06	14.3	6.50	1.202	48.536
017.0235.XX		25.06	10.0	6.50	0.833	17.251
017.0234.XX		15.00	5.0	6.50	0.495	1.893
017.0201.XX		22.30	7.9	6.50	1.856	5.046
017.0202.XX		26.30	9.9	6.50	1.996	12.080
017.0203.XX		32.12	11.9	6.50	2.133	24.151
017.0204.XX		36.12	13.9	6.50	2.205	41.070
017.0216.XX		19.34	6.4	6.50	1.713	1.987
017.0213.XX		33.07	12.4	6.50	2.153	27.316
017.0211.XX		23.26	8.9	6.50	1.896	6.279

C

D2000173

AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

		A dm²/m	P dm²/m	Lm	Ix cm⁴	Iy cm⁴
017.0212.XX		27.29	10.4	6.50	2.040	14.343
017.0214.XX		37.06	14.3	6.50	2.221	45.475

C

D2000174

ES 45Pa

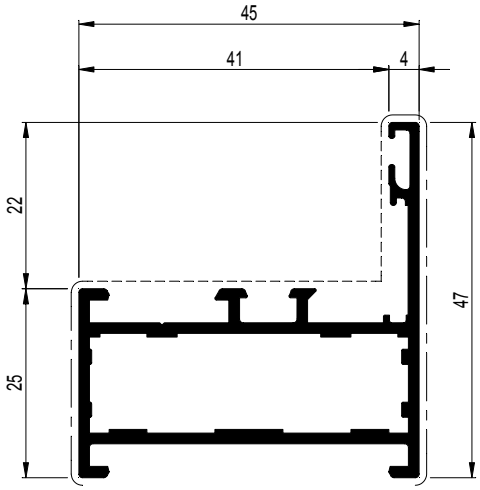
BUITENKADER
DORMANT
OUTER FRAME
BLENDRAHMEN

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0136.XX	26,10	7,7	7,00	7,578	2,948	19,30	3,532	1,158	16,50
010.0183.XX	28,10	9,7	7,00	8,935	3,516	19,59	6,803	1,942	21,98

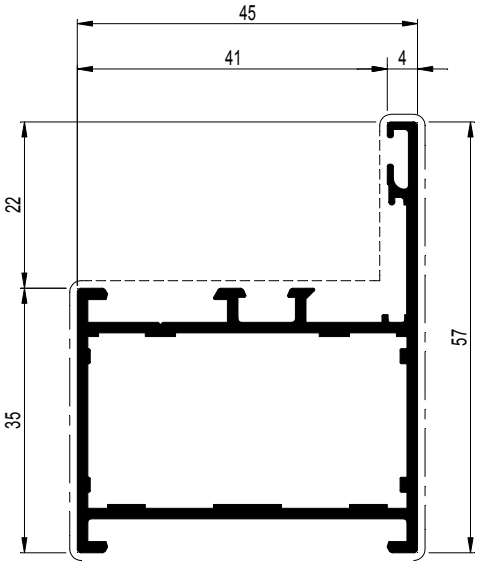
X Y Y X 0

C

010.0136.XX



010.0183.XX



010.0136.XX	
021.0238.00 or 019.0171.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
021.0240.00 or 021.0241.00	097.0076.00
068.8750.00 or 021.0241.00	097.0645.00
060.8719.-- or 060.8736.00	---

010.0183.XX	
021.0250.00 or 019.0194.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
021.0252.00 or 021.0242.00	097.0076.00
068.8751.00	097.0645.00
060.8719.-- or 060.8736.00	---

D2000034

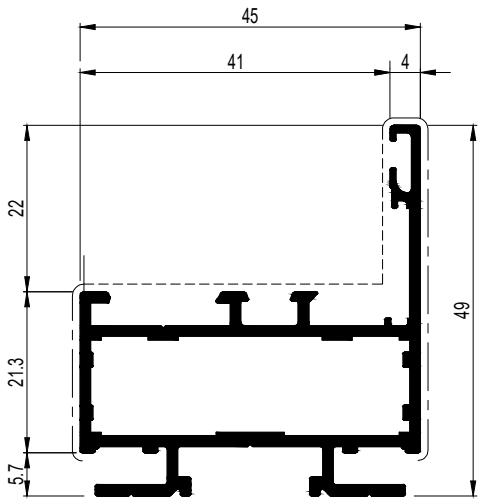
ES 45Pa

BUITENKADER MET GROEF
DORMANT AVEC GORGE
OUTER FRAME WITH GROOVE
BLENDRAHMEN MIT RILLE

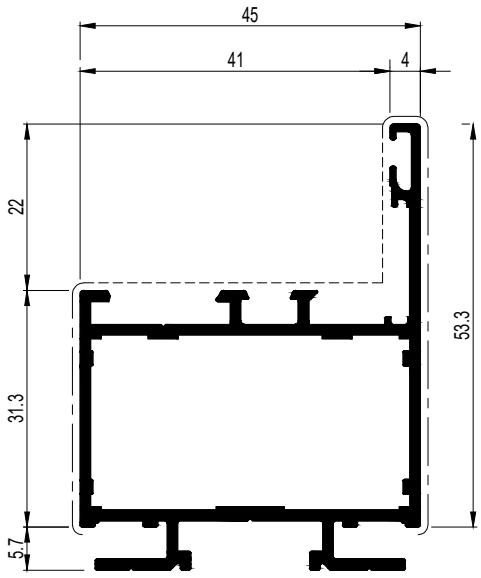
	A dm²/m	P dm/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0134.XX	31.15	6.9	7.00	7.882	3.115	19.70	4.572	1.400	16.35
010.0140.XX	33.15	8.9	7.00	9.233	3.682	19.92	8.621	2.291	21.37

X Y 0

010.0134.XX



010.0140.XX



010.0134.XX	
019.0171.00	095.H800.00
021.0238.00	095.H800.00
021.0238.00	095.B500.00
021.0238.00	095.B500.00
021.0240.00	097.0076.00
021.0241.00	097.0645.00
068.8750.00	097.0645.00
060.8736.00	---
060.8719.--	---

010.0140.XX	
019.0194.00	095.H800.00
021.0250.00	095.H800.00
019.0194.00	095.B500.00
021.0250.00	095.B500.00
021.0252.00	097.0079.00
068.8751.00	---
060.8736.00	---
060.8719.--	---

C

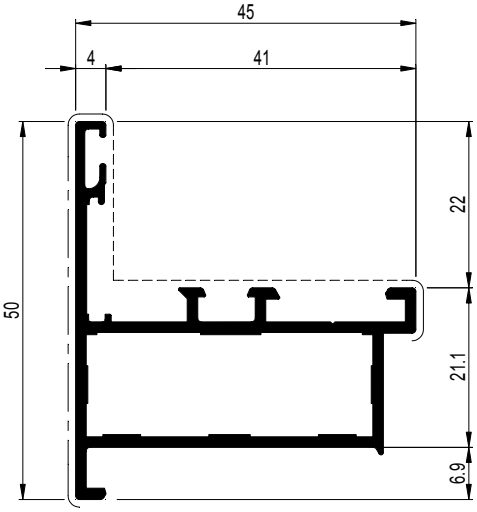
D2000035

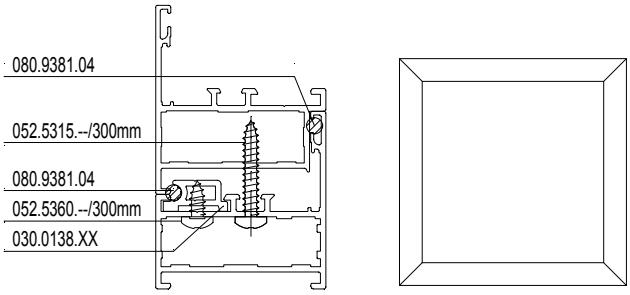
ES 45Pa

WISSELPROFIEL BUITENBEGLAZING
PROFILE INVERSION PARCLOSE
CHANGEOVER PROFILE OUTSIDE GLAZING
WECHSELPROFIL AUSSENVERGLASUNG

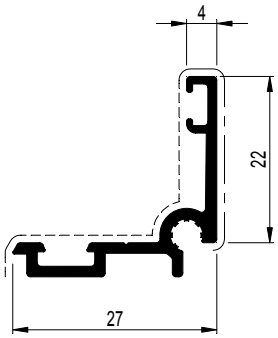
	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.1101.XX	25.49	6.1	7.00	6.156	2.226	27.65	3.447	1.149	20.00
010.3701.XX	14.17	2.6	7.00	0.686	0.372	8.57	0.575	0.319	8.48

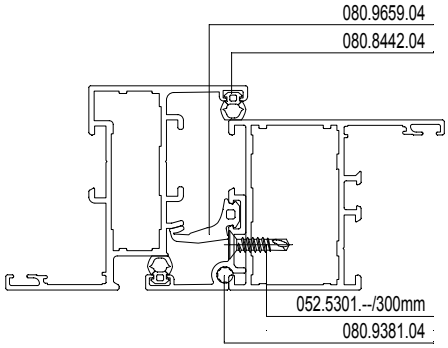
010.1101.XX

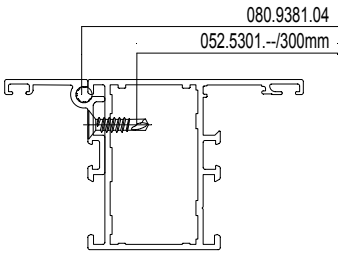


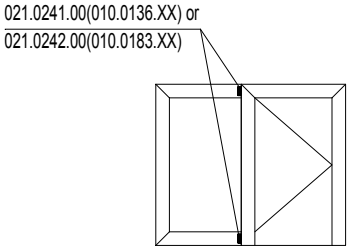


010.3701.XX









010.1101.XX	
068.8082.00 or 000.0813.00 36.9(+/-0.2mm)	---
060.8719.-- or 060.8736.00	---

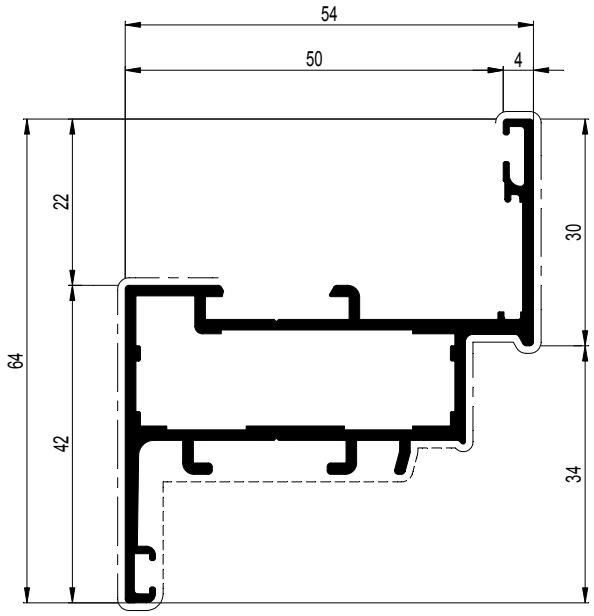
D2000036

ES 45Pa

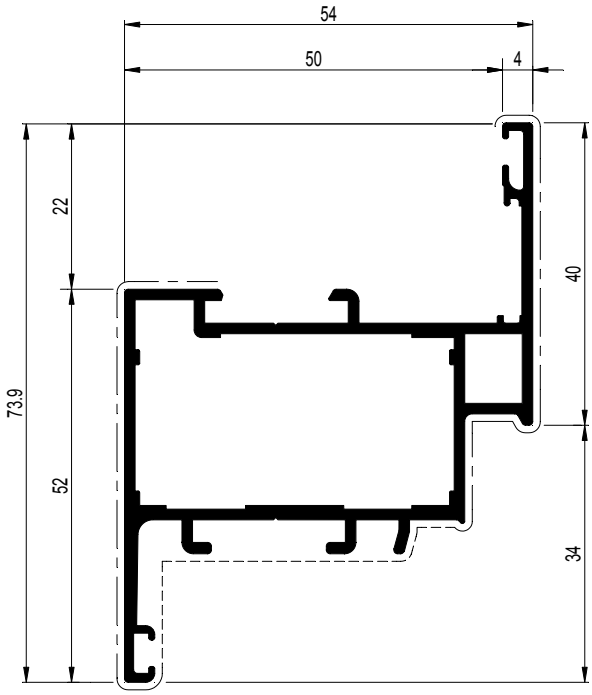
VLEUGEL RAAMDEUR NAAR BINNENDRAAIEND
OUVRANT PORTE-FENETRE OUVRANT VERS L'INTERIEUR
VENT WINDOW-DOOR INWARD OPENING
FLUEGEL FENSTERTUER NACH INNEN OEFFNEND

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0102.XX	33,06	11,6	7,00	12,688	4,454	28,49	5,779	1,737	30,72
010.0192.XX	35,06	13,6	7,00	15,406	5,634	27,34	10,322	2,709	35,90

010.0102.XX



010.0192.XX



010.0102.XX	
021.0238.00 or 019.0171.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
021.0240.00	097.0080.00
060.8719.-- or 060.8736.00	---

010.0192.XX	
021.0250.00 or 019.0194.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
021.0252.00	097.0080.00
060.8719.-- or 060.8736.00	---

C

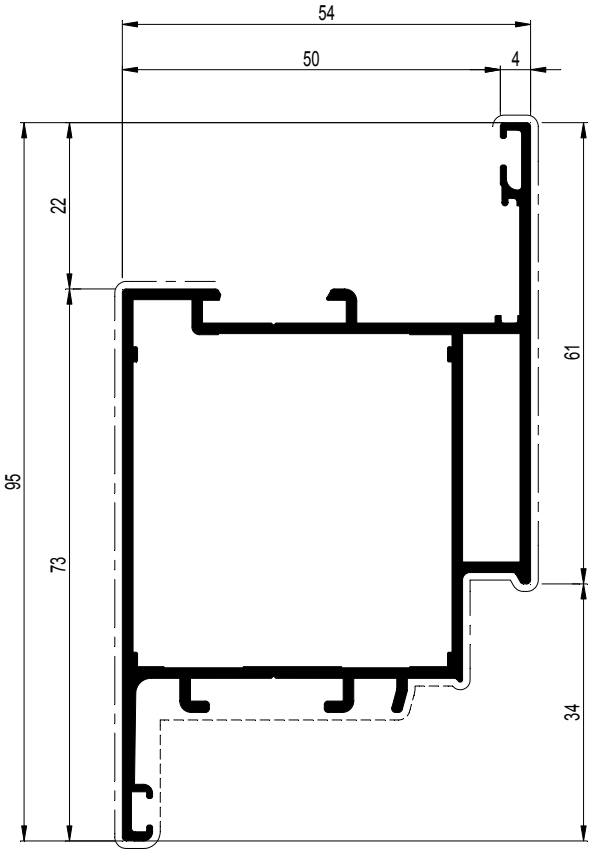
D2000037

ES 45Pa

VLEUGEL RAAMDEUR NAAR BINNENDRAAIEND
OUVRANT PORTE-FENETRE OUVRANT VERS L'INTERIEUR
VENT WINDOW-DOOR INWARD OPENING
FLUEGEL FENSTERTUER NACH INNEN OEFFNEND

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm	X Y
010.0112.XX	39.26	17.8	7.00	20.123	7.227	26.16	25.871	5.363	46.76	

010.0112.XX



010.0112.XX	
068.8280.00 or 000.0823.00 40.4(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
060.8719.-- or 060.8736.00	---

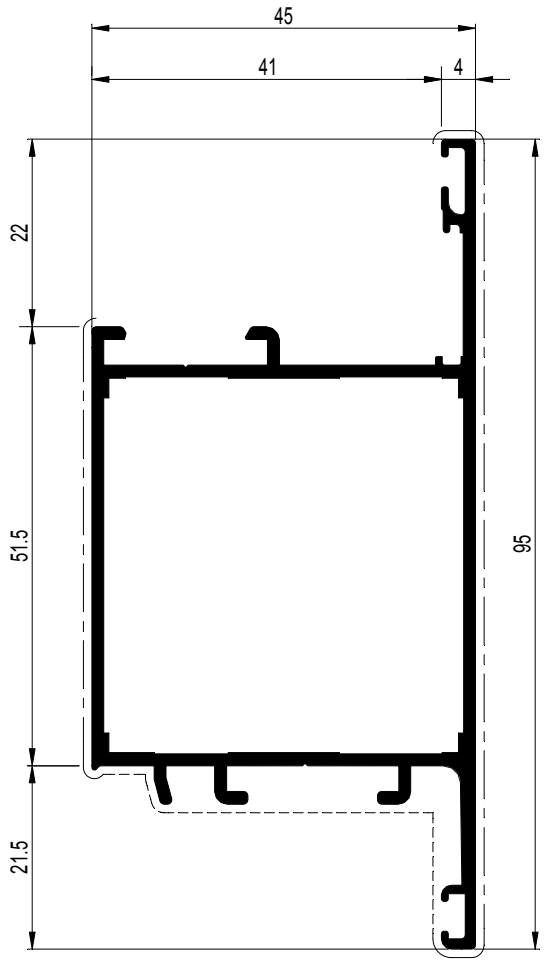
D2000039

ES 45Pa

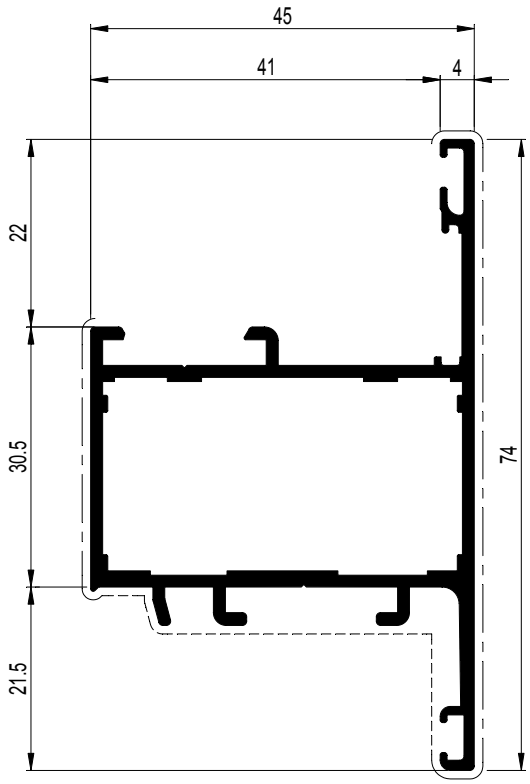
VLEUGEL RAAMDEUR NAAR BUITENDRAAIEND
OUVRANT PORTE-FENETRE OUVRANT VERS L'EXTERIEUR
VENT WINDOW-DOOR OUTWARD OPENING
FLUEGEL FENSTERTUER NACH AUSSEN OEFFNEND

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0412.XX	37.34	15.6	7.00	12.483	4.695	18.41	24.170	4.887	45.55
010.0492.XX	33.14	11.4	7.00	9.770	3.597	17.84	9.857	2.523	34.93

010.0412.XX



010.0492.XX



010.0412.XX	
068.8280.00 or 000.0823.00 40.4(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
060.8719.-- or 060.8736.00	---

010.0492.XX	
021.0250.00 or 019.0194.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
021.0252.00	097.0080.00
060.8719.-- or 060.8736.00	---

C

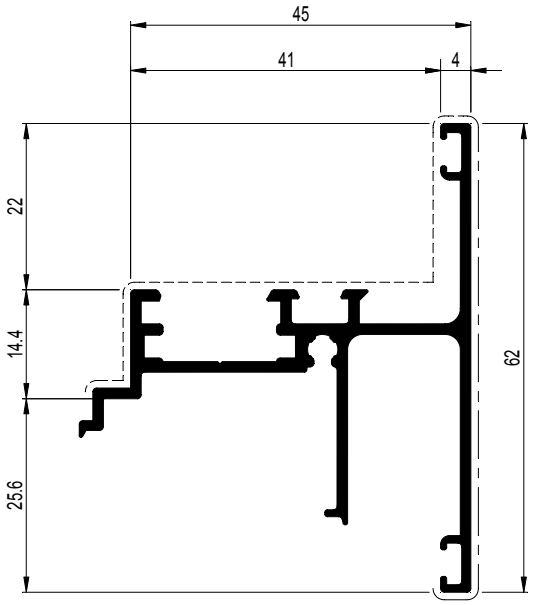
D2000040

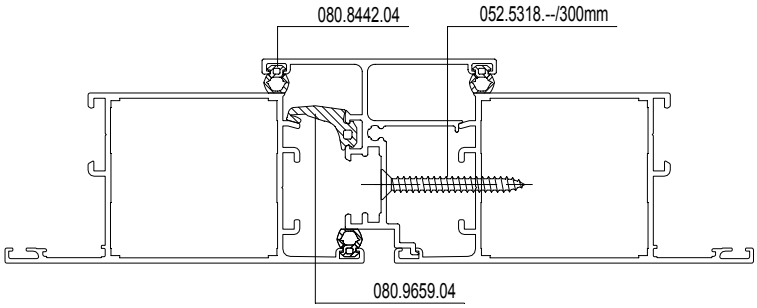
ES 45Pa

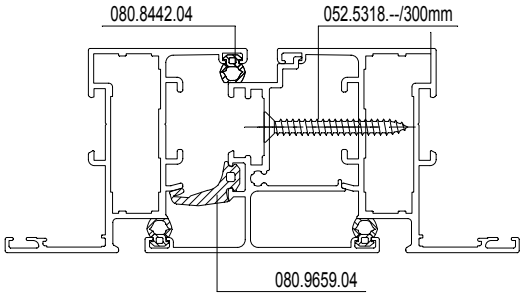
STOLPPROFIEL
BATTEE CENTRALE FENETRE DOUBLE OUVRANTE
DOUBLE CASEMENT PROFILE
STULPPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm	X Y
010.0115.XX	38.68	7.0	7.00	7.475	2.192	17.70	4.455	1.419	30.60	

010.0115.XX







C

D2000041

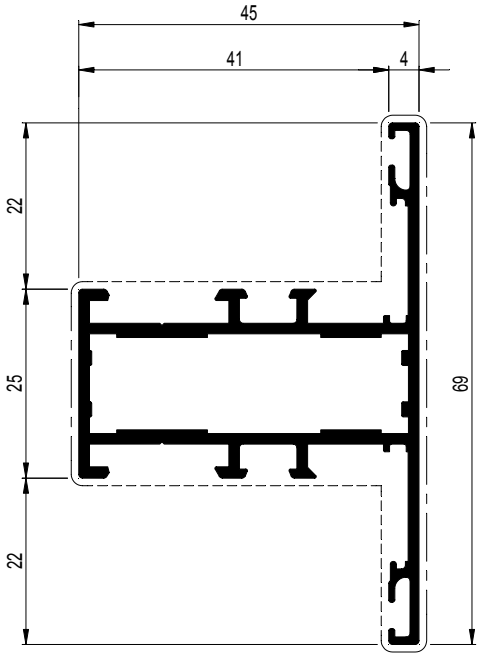
ES 45Pa

T-PROFIEL RAAM NAAR BINNENDRAAIEND
TRAVERSE FENETRE OUVRANT VERS L'EXTERIEUR
TRANSOM-MULLION WINDOW INWARD OPENING
SPROSSE FENSTER NACH INNEN OEFFNEND

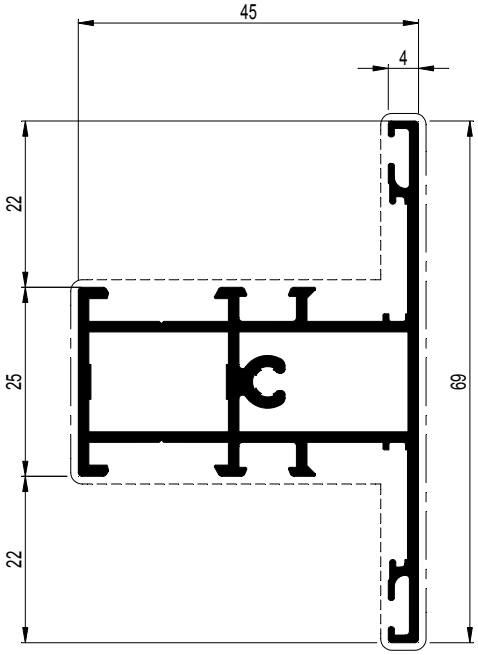
	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0113.XX	34.70	10.3	7.00	8.843	3.213	17.47	6.711	1.945	34.50
010.0813.XX	34.70	10.3	7.00	8.484	3.128	17.88	6.662	1.931	34.50

X Y Y X 0

010.0113.XX



010.0813.XX



010.0113.XX	
021.0238.00 or 019.0171.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
068.8750.00	097.0645.00
060.8719.-- or 060.8736.00	---

010.0813.XX	
068.6820.00	---
060.8719.-- or 060.8736.00	---

C

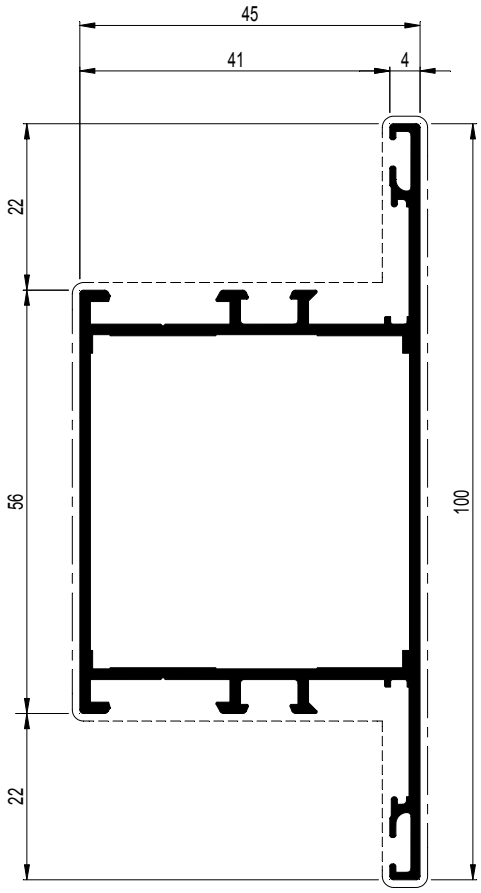
D2000042

ES 45Pa

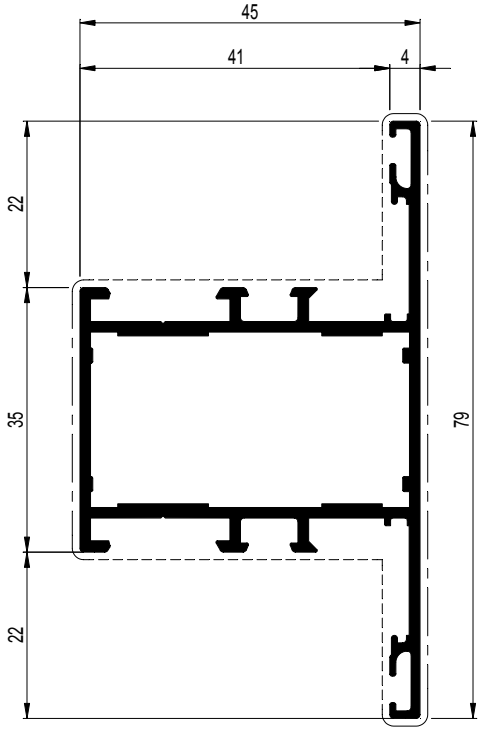
T-PROFIEL RAAM NAAR BINNENDRAAIEND
TRAVERSE FENETRE OUVRANT VERS L'EXTERIEUR
TRANSOM-MULLION WINDOW INWARD OPENING
SPROSSE FENSTER NACH INNEN OEFFNEND

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0114.XX	40,90	16,5	7,00	12,955	4,850	18,29	27,104	5,421	50,00
010.0120.XX	36,70	12,3	7,00	10,240	3,773	17,86	11,472	2,904	39,50

010.0114.XX



010.0120.XX



010.0114.XX		
	068.8280.00 or 000.0823.00 40.4(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
	068.8754.00	097.0645.00
	060.8719.-- or 060.8736.00	---

010.0120.XX		
	021.0250.00 or 019.0194.00 40(+/-0.2mm)	095.H800.00 of-ou-or-oder 095.B500.00
	068.8751.00 or 021.0242.00	097.0645.00
	060.8719.-- or 060.8736.00	---

D2000043

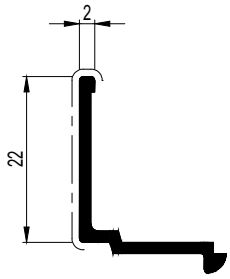
ES 45Pa

GLASLAT BUITENKADER
PARCLOSE DORMANT
GLAZING BEAD OUTER FRAME
GLASLEISTE BLENDRAHMEN

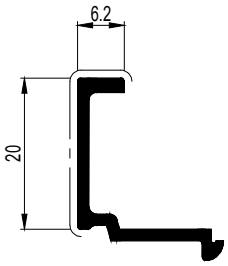
	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
004.3328.XX	8.85	2.4	6.00	0.261	0.190	13.71	0.382	0.231	9.44
030.3704.XX	11.37	2.9	7.00	0.256	0.191	13.38	0.545	0.438	11.65
030.3705.XX	9.30	2.6	7.00	0.255	0.187	13.65	0.453	0.330	10.35
030.3706.XX	11.77	3.0	7.00	0.267	0.205	13.00	0.582	0.482	12.02
030.3707.XX	13.17	3.4	7.00	0.357	0.306	11.67	0.546	0.399	13.69
030.3708.XX	12.17	3.3	7.00	0.289	0.230	12.59	0.617	0.499	12.37
030.3709.XX	13.43	3.7	7.00	0.415	0.374	11.10	0.568	0.405	14.04
030.3712.XX	18.17	5.3	7.00	0.730	0.453	16.11	1.314	0.695	13.31

X
Y — Y
X 0

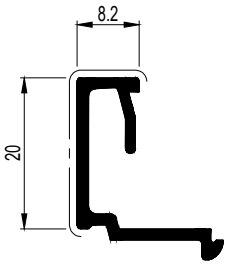
004.3328.XX



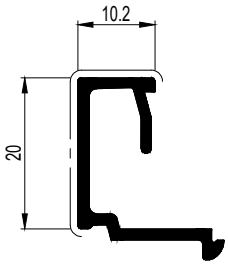
030.3705.XX



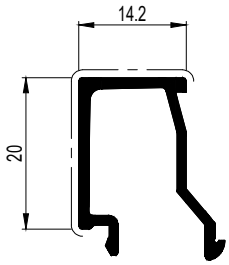
030.3704.XX



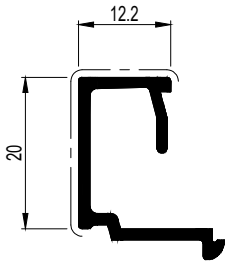
030.3706.XX



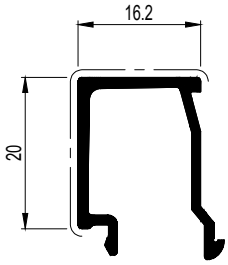
030.3707.XX



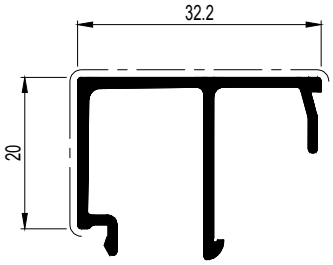
030.3708.XX



030.3709.XX



030.3712.XX



Beglazingstabel zie pagina 02D.F....
Tableau de vitrage voir page 02D.F....
Glazing table see page 02D.F....
Verglasungstabelle Siehe Seite 02D.F....

C

D2000045

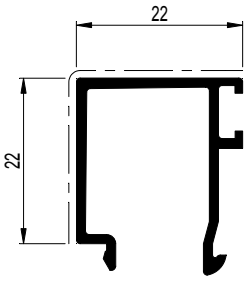
ES 45Pa

GLASLAT VLEUGEL
PARCLOSE OUVRANT
GLAZING BEAD VENT
GLASLEISTE FLUEGEL

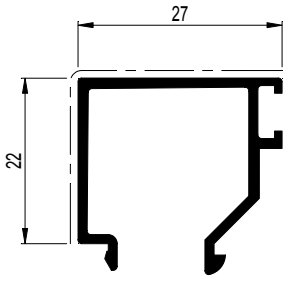
	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
004.3310.XX	17.64	4.9	6.00	1.052	0.737	14.28	0.811	0.502	16.15
004.3329.XX	16.27	4.4	6.00	0.658	0.568	11.58	0.738	0.466	15.85
030.3196.XX	13.08	3.1	7.00	0.778	0.387	20.13	0.755	0.423	11.33
030.3197.XX	16.26	4.0	7.00	0.792	0.409	19.34	1.209	0.818	14.39
030.3621.XX	11.36	2.8	7.00	0.755	0.385	19.61	0.578	0.301	9.95
030.3714.XX	14.96	3.8	7.00	0.778	0.432	18.00	0.769	0.630	12.22
030.3715.XX	14.56	3.5	7.00	0.746	0.406	18.37	0.734	0.603	11.93
030.3716.XX	15.37	3.9	7.00	0.825	0.469	17.60	0.803	0.643	12.49
030.3717.XX	16.77	4.3	7.00	1.004	0.616	16.29	0.747	0.538	13.89
030.3718.XX	15.77	4.2	7.00	0.835	0.655	12.75	0.886	0.516	11.13
030.3719.XX	17.03	4.6	7.00	0.768	0.542	14.16	1.114	0.706	12.53

X
Y Y
X 0

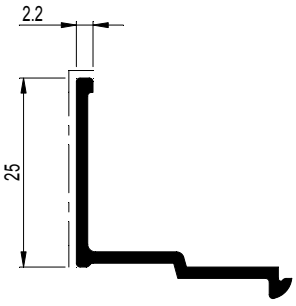
004.3329.XX



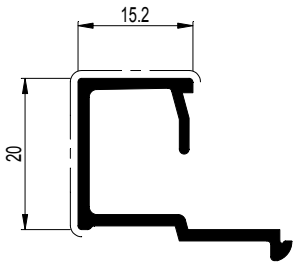
004.3310.XX



030.3621.XX



030.3715.XX



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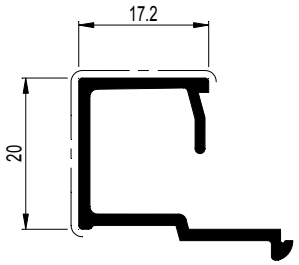

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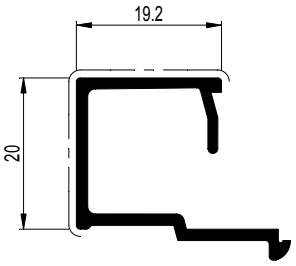
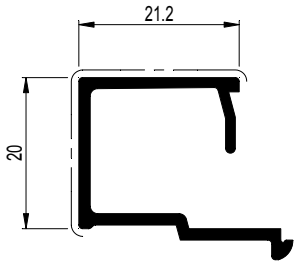


030.3718.XX



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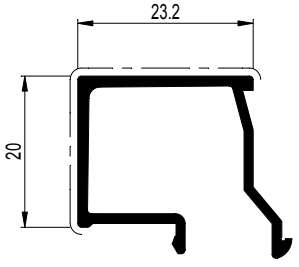
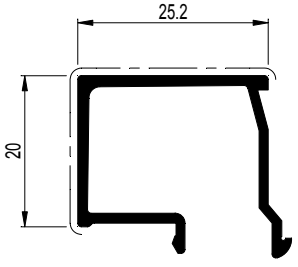
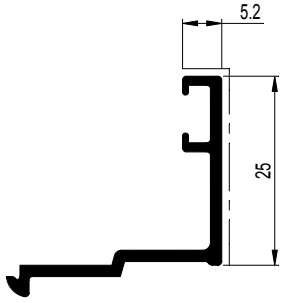


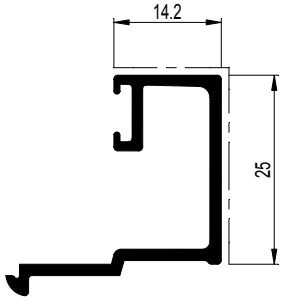
030.3719.XX



030.3196.XX



030.3197.XX



Beglazingstabel zie pagina 02D.F....
Tableau de vitrage voir page 02D.F....
Glazing table see page 02D.F....
Verglasungstabelle Siehe Seite 02D.F....

D2000044

C

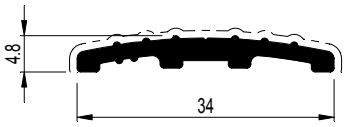
ES 45Pa

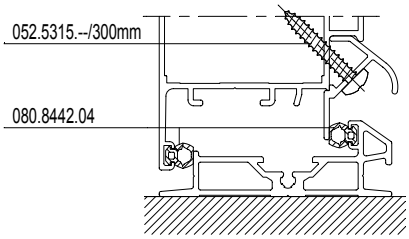
BODEMPROFIEL
PROFILE DE SEUIL
FLOOR PROFILE
ZUSATZPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
001.0071.XX	8.07	4.2	6.00	0.806	0.474	17.01	0.010	0.039	2.51
002.0609.XX	7.95	1.8	6.00	0.189	0.182	7.79	0.227	0.175	6.39
010.0019.XX	10.84	3.3	7.00	0.289	0.246	11.78	0.392	0.239	16.40
010.0126.XX	21.13	6.5	7.00	7.770	2.162	25.56	0.722	0.523	6.20

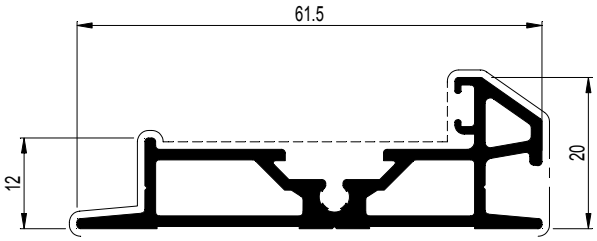
X
Y — Y
X 0

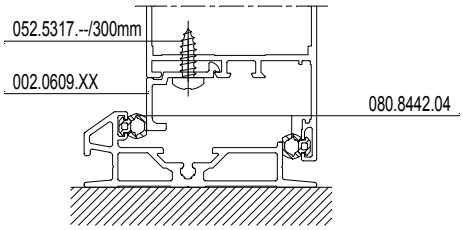
001.0071.XX



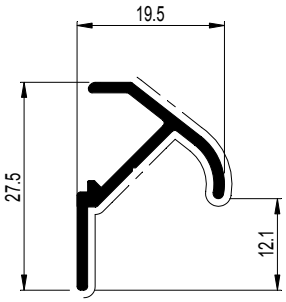


010.0126.XX

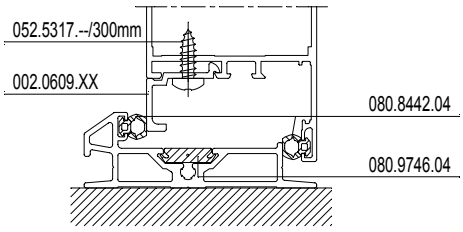




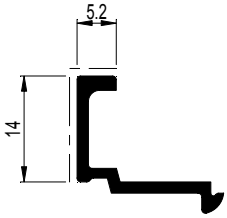
010.0019.XX



* VARIANT
VARIANTE
VARIANT
VARIANTE



002.0609.XX



C

D2000046

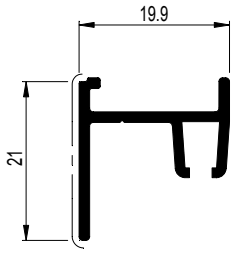
ES 45Pa

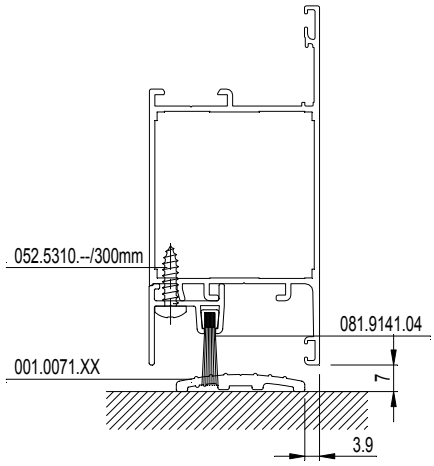
BORSTELPROFIEL
PROFILE SUPPORT JOINT-BROSSE
SUPPORTING PROFILE BRUSH
ZUSATZPROFIL BUERSTENDICHTUNG

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0030.XX	12.31	2.1	7.00	0.472	0.426	11.08	0.200	0.148	13.54
010.0049.XX	17.08	3.5	7.00	0.753	0.531	7.82	0.717	0.396	17.39

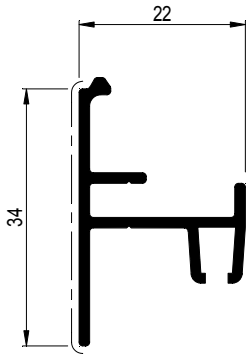
X Y Y X 0

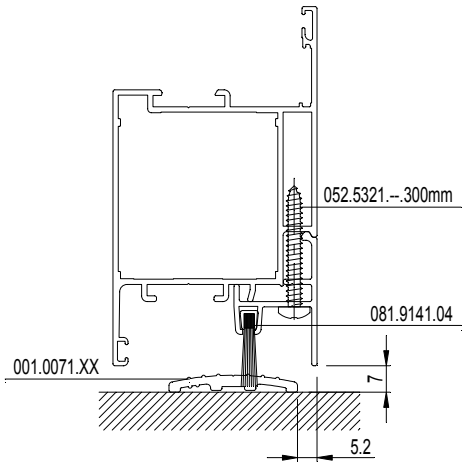
010.0030.XX





010.0049.XX





C

D2000047

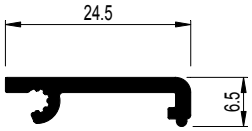
ES 45Pa

GLASSTEUN
SUPPORT CALE DE VITRAGE
GLASS SUPPORT
GLASAUFLAGEPROFIL

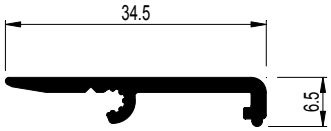
	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0005.00	7.40	-	7.00	0.017	0.037	4.64	0.379	0.293	12.96
010.0006.00	9.35	-	7.00	0.019	0.039	4.84	0.807	0.417	19.35

X
Y Y
X 0

010.0005.00



010.0006.00



C

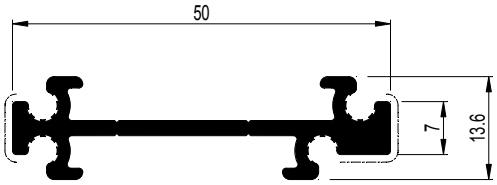
D2000052

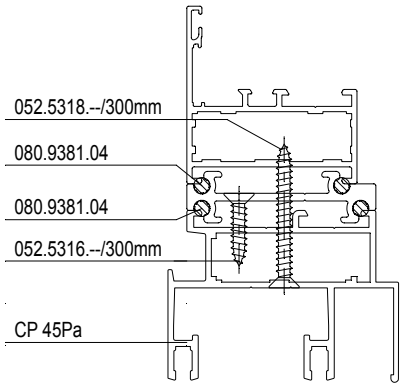
ES 45Pa

AANSLUITINGSPROFIEL
PROFILE DE RACCORDEMENT
CONNECTION PROFILE
ANSCHLUSSPROFIL

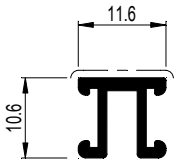
	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
010.0885.XX	19.46	2.1	7.00	5.670	2.188	24.09	0.160	0.231	6.66
017.0210.XX	7.60	1.2	6.50	0.058	0.100	5.80	0.070	0.118	4.65
019.4904.XX	3.90	0.6	6.50	0.004	0.014	2.72	0.034	0.058	4.77
030.0138.00	-	-	7.00	-	-	-	-	-	-

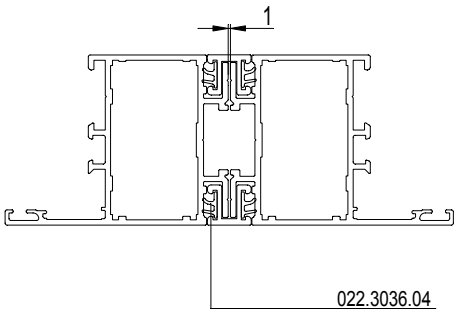
010.0885.XX



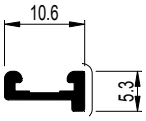


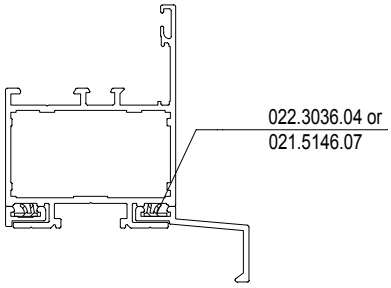
017.0210.XX





019.4904.XX





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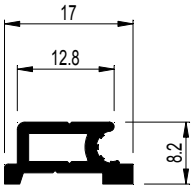
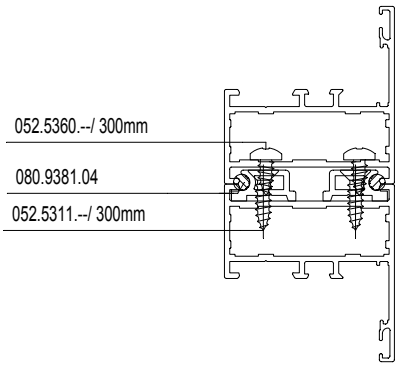




C

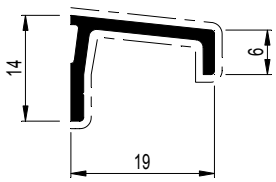
D2000053

ES 45Pa

LEKLIJST
REJET D'EAU
DRIP CAP
WETTERSCHENKEL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm	
004.3846.XX	7.39	5.9	6.00	0.074	0.077	4.48	0.257	0.224	7.52	X Y Y X 0

004.3846.XX



C

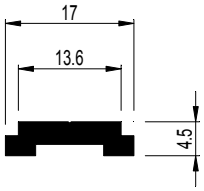
D2000118

ES 45Pa

SLUITLAT
TRINGLE
LINK BAR
SCHUBSTANGE

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm	
004.3140.17	4.60	-	6.00	-	-	-	-	-	-	X Y Y X 0

004.3140.17



BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG 02D.F.099_001 HOOFDSTUK F !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ 02D.F.099_001 CHAPITRE F !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT 02D.F.099_001 CHAPTER F !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE 02D.F.099_001 KAPITEL F !

C

D2000119

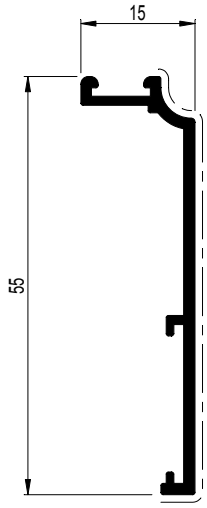
ES 45Pa

BEKLEDINGSPROFIEL
PLANCHETTE
COVER PROFILE
PANEEL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
017.0077.XX	15.99	5.8	6.50	3.720	1.214	30.66	0.171	0.140	2.87
017.0110.XX	12.27	4.3	6.50	1.034	0.491	21.07	0.165	0.143	11.55
017.0120.XX	12.03	3.8	6.50	1.128	0.550	20.51	0.152	0.132	11.48
017.0121.XX	16.84	9.1	6.50	1.169	0.555	21.04	0.582	0.393	14.82
017.0128.XX	13.00	4.9	6.50	2.940	1.020	5.48	1.480	0.520	25.17
017.0131.XX	10.12	3.8	6.50	-	-	-	-	-	-

Y
X X
0 Y

017.0077.XX



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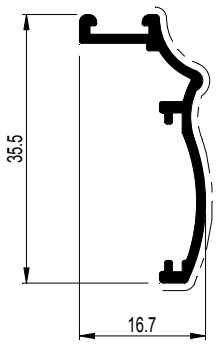

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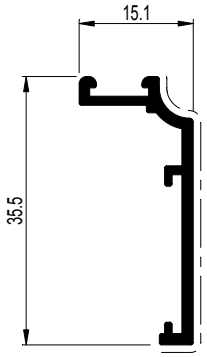
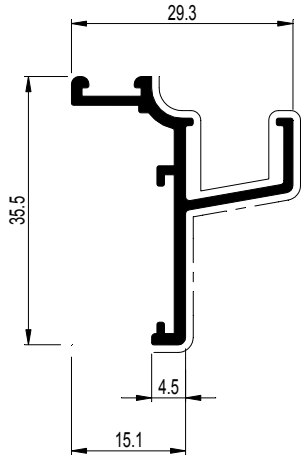


017.0121.XX



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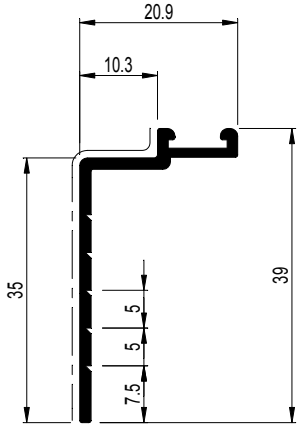
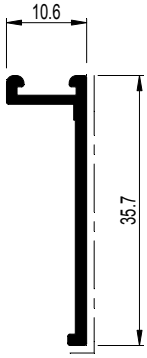


017.0131.XX



017.0121.XX	
021.0245.00	---

017.0120.XX	
021.0245.00	---

017.0110.XX	
021.0245.00	---

017.0077.XX	
021.0245.00	---

C

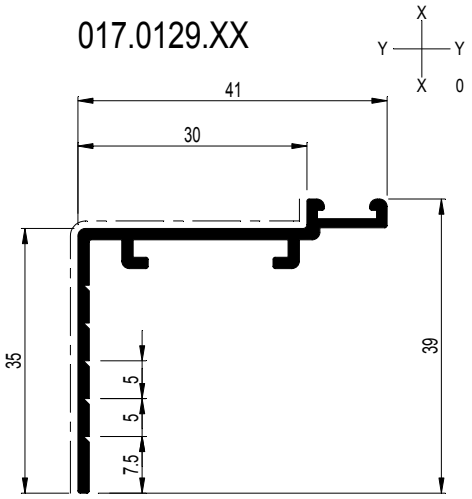
D2000112

ES 45Pa

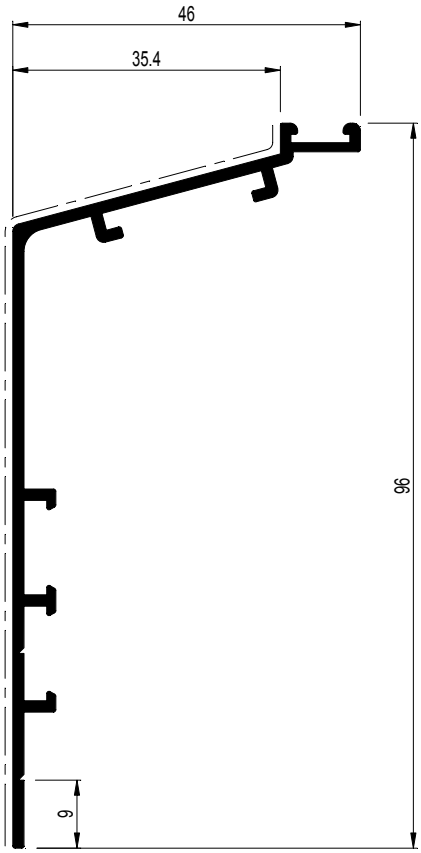
AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
017.0127.XX	32.97	12.3	6.50	20.830	3.544	58.77	4.778	1.344	35.54
017.0129.XX	19.23	6.9	6.50	2.539	0.940	13.89	1.450	0.519	27.94
017.5003.XX	35.06	15.2	6.50	28.875	4.456	64.81	21.672	3.699	58.59

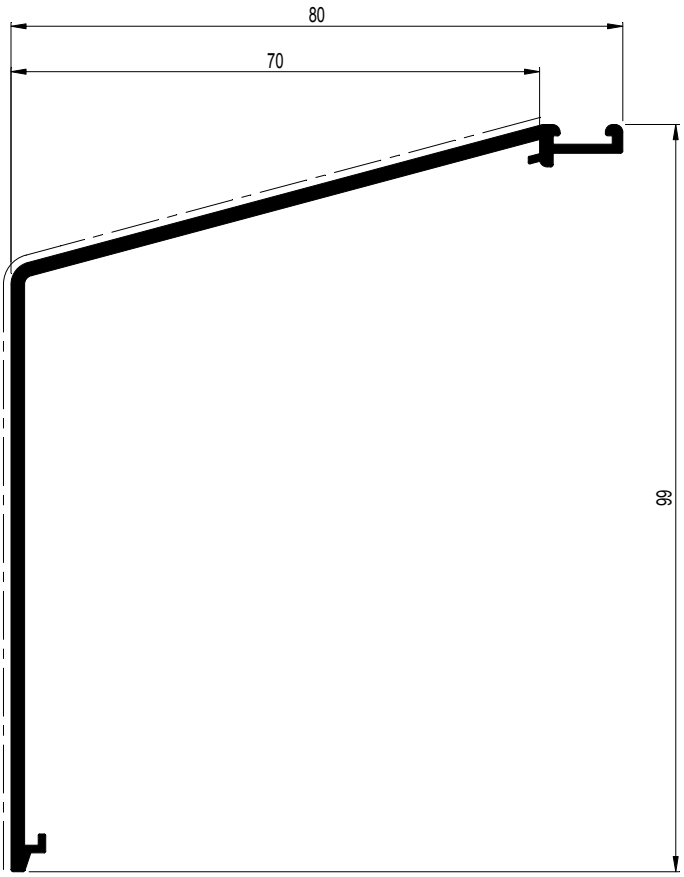
017.0129.XX



017.0127.XX



017.5003.XX



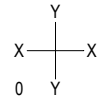
C

D0081105

ES 45Pa

AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
017.0189.XX	22.21	4.8	6.50	2.178	0.687	31.71	5.036	1.387	36.31
017.0190.XX	26.20	10.2	6.50	2.527	0.755	33.48	12.024	2.488	26.28
017.0193.XX	39.15	15.8	6.50	1.487	0.592	25.14	47.355	6.191	57.32
017.0197.XX	10.63	3.7	6.50	0.224	0.173	12.99	0.785	0.425	18.49
017.0198.XX	19.00	7.3	6.50	0.613	0.322	19.05	0.006	1.729	34.70



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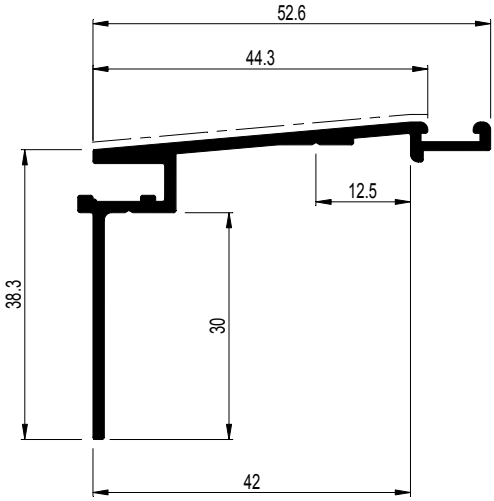

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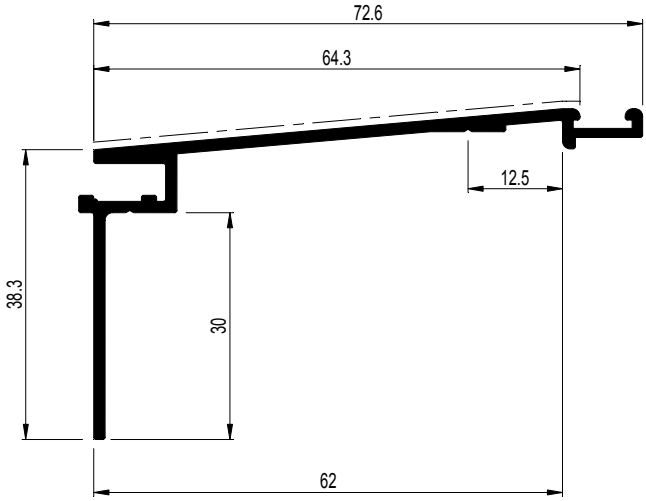
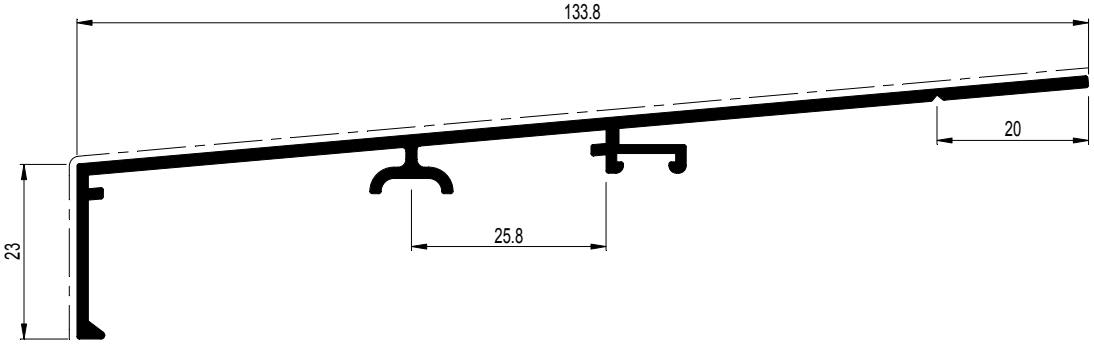
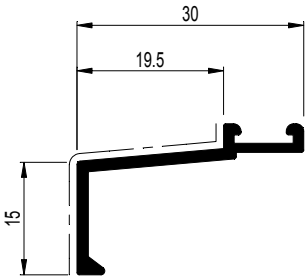


017.0193.XX



017.0197.XX



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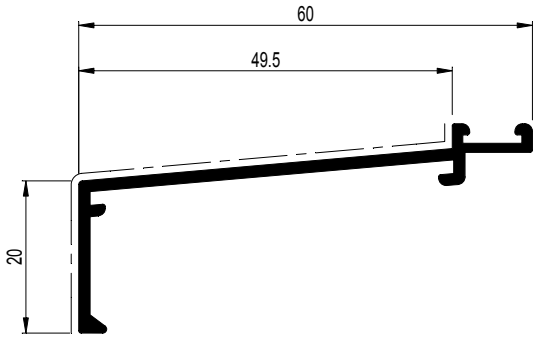


C

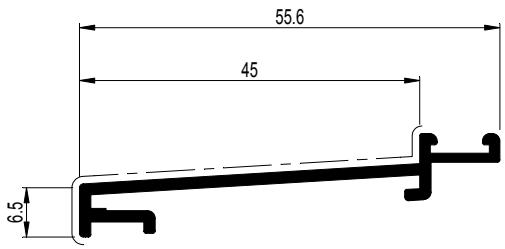
D0081106

ES 45Pa

AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
017.0199.XX	25.81	10.7	6.50	0.843	0.399	21.15	19.870	3.816	41.93
017.0205.XX	33.06	14.3	6.50	1.202	0.517	23.26	48.536	6.900	59.66
017.0233.XX	16.90	5.6	6.50	0.101	0.139	7.27	4.063	1.365	25.84
017.0234.XX	15.00	5.0	6.50	0.495	0.291	16.99	1.893	0.798	23.72
017.0235.XX	25.06	10.0	6.50	0.833	0.406	20.53	17.251	3.468	49.74

017.0233.XX



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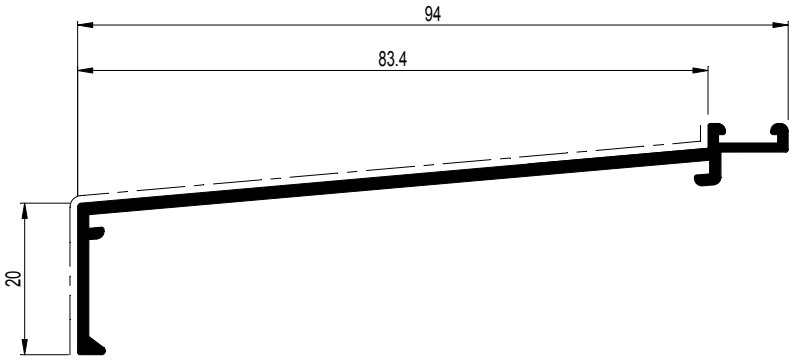
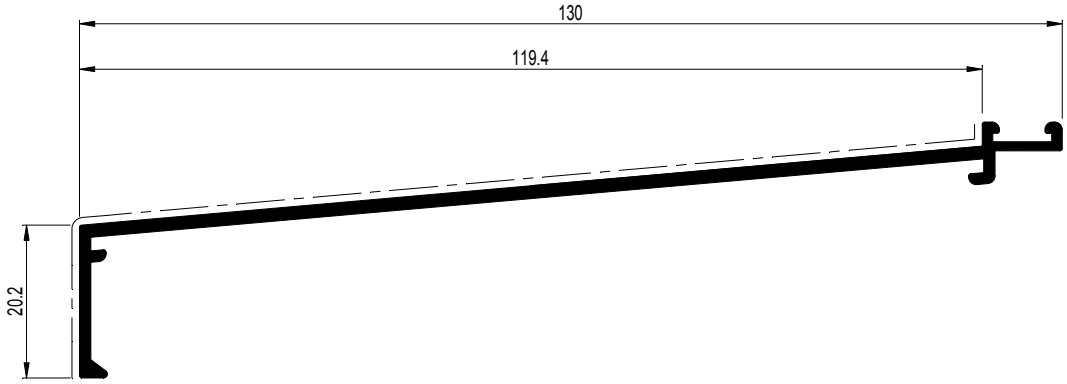
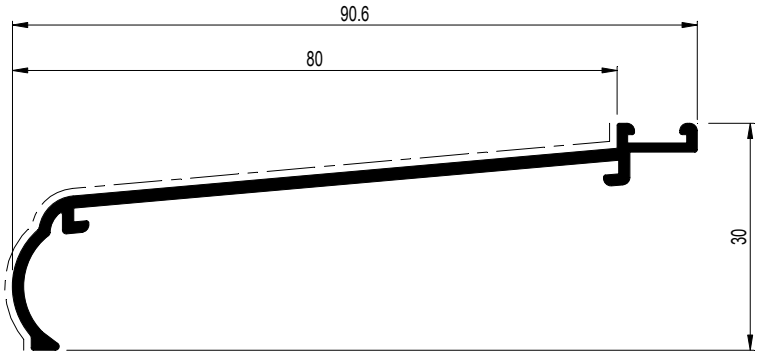


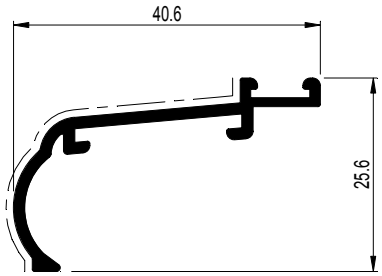
017.0205.XX



017.0235.XX



017.0234.XX



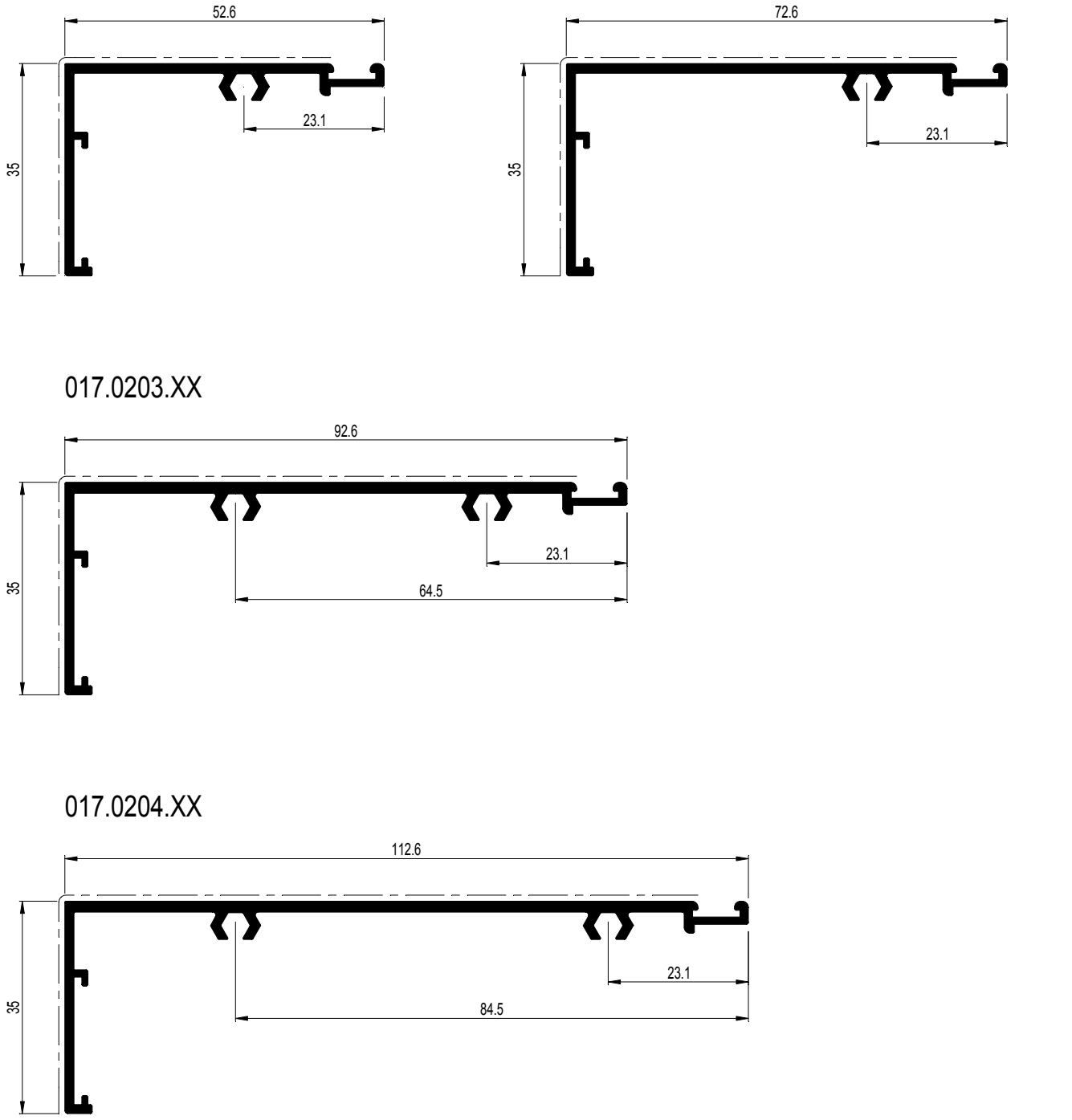
D0081107

C

ES 45Pa

AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
017.0201.XX	22.30	7.9	6.50	1.856	0.688	26.99	5.046	1.477	18.44
017.0202.XX	26.30	9.9	6.50	1.996	0.709	28.15	12.080	2.700	27.87
017.0203.XX	32.12	11.9	6.50	2.133	0.727	29.36	24.151	4.355	37.14
017.0204.XX	36.12	13.9	6.50	2.205	0.737	29.93	41.070	6.206	46.42



017.0201.XX	
021.0245.00	---

017.0202.XX	
021.0245.00	---

017.0203.XX	
021.0245.00	---

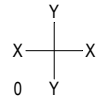
017.0204.XX	
021.0245.00	---

D0081109

ES 45Pa

AFWERKINGSPROFIEL
PROFILE DE FINITION
FINISHING PROFILE
AUSFUEHRUNGSPROFIL

	A dm²/m	P dm²/m	Lm	Ix cm⁴	Wx cm³	ax mm	Iy cm⁴	Wy cm³	ay mm
017.0211.XX	23.26	8.9	6.50	1.896	0.694	27.32	6.279	1.684	20.31
017.0212.XX	27.29	10.4	6.50	2.040	0.715	28.53	14.343	3.015	30.03
017.0213.XX	33.07	12.4	6.50	2.153	0.729	29.51	27.316	4.672	39.14
017.0214.XX	37.06	14.3	6.50	2.221	0.739	30.05	45.475	6.580	48.49
017.0216.XX	19.34	6.4	6.50	1.713	0.663	25.82	1.987	0.746	10.97



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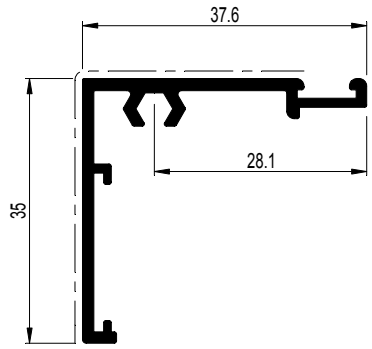
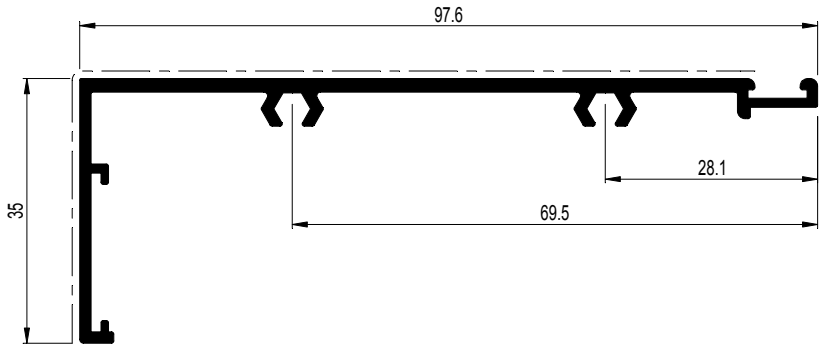
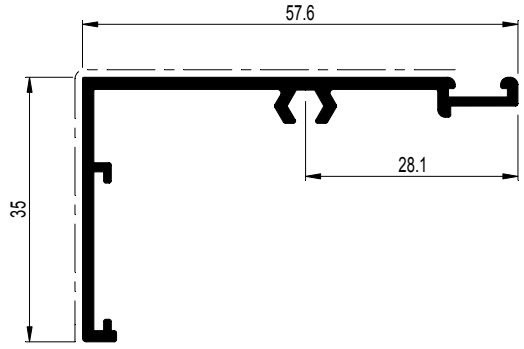


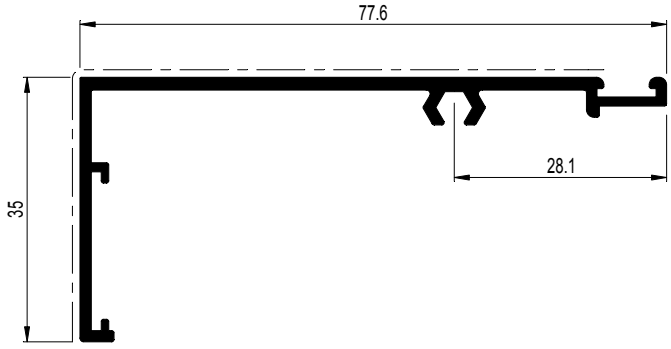
017.0213.XX



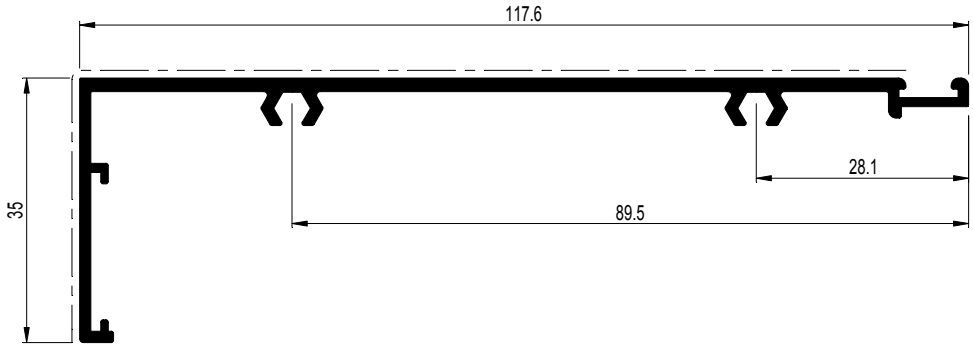
017.0211.XX



017.0212.XX



017.0214.XX



017.0216.XX	
021.0245.00	---
017.0214.XX	
021.0245.00	---
017.0213.XX	
021.0245.00	---
017.0212.XX	
021.0245.00	---
017.0211.XX	
021.0245.00	---

D0081111

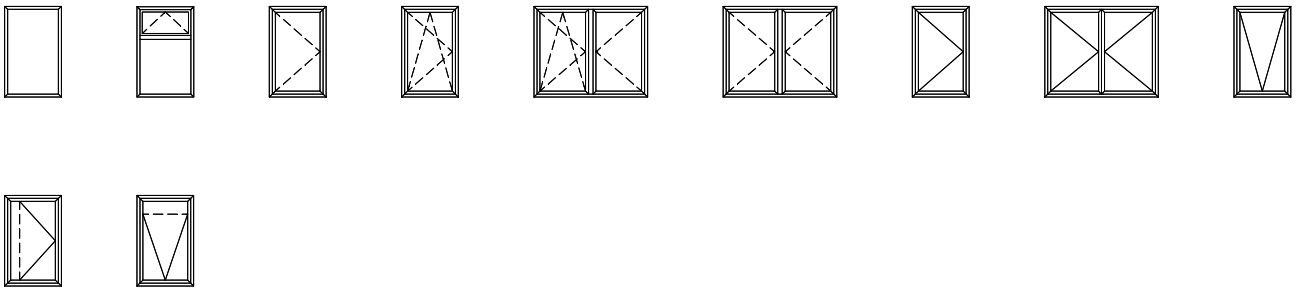
E

Reynaers Aluminium

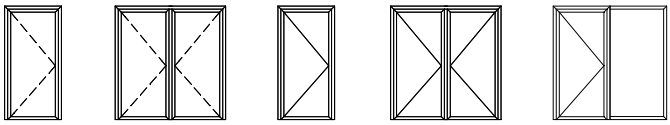
Werktekeningen
Coupes et débits
Work drawings
Werkzeichnungen

OVERZICHT RAMEN
APERCU FENETRES
OVERVIEW WINDOWS
UEBERSICHT FENSTER

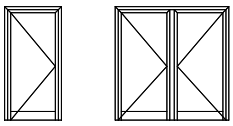
	RAMEN FENETRES	WINDOWS FENSTERS



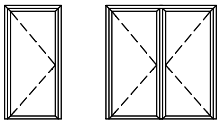
	DEUREN PORTES	DOORS TÜREN

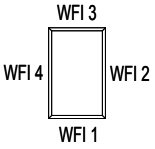


	DEUREN MET T-PROFIEL PORTES AVEC TRAVERSE	DOORS WITH TRANSOM MULLION TÜREN MIT SPROSSE



	DEUREN MET DUB. AANSLAGD. PORTES AVEC JOINY DE BUTTEE	DOORS WITH DOUBLE WEATHER ST. TÜREN MIT DOPPELANSCHLAGD.





WFI = WINDOW FIXED

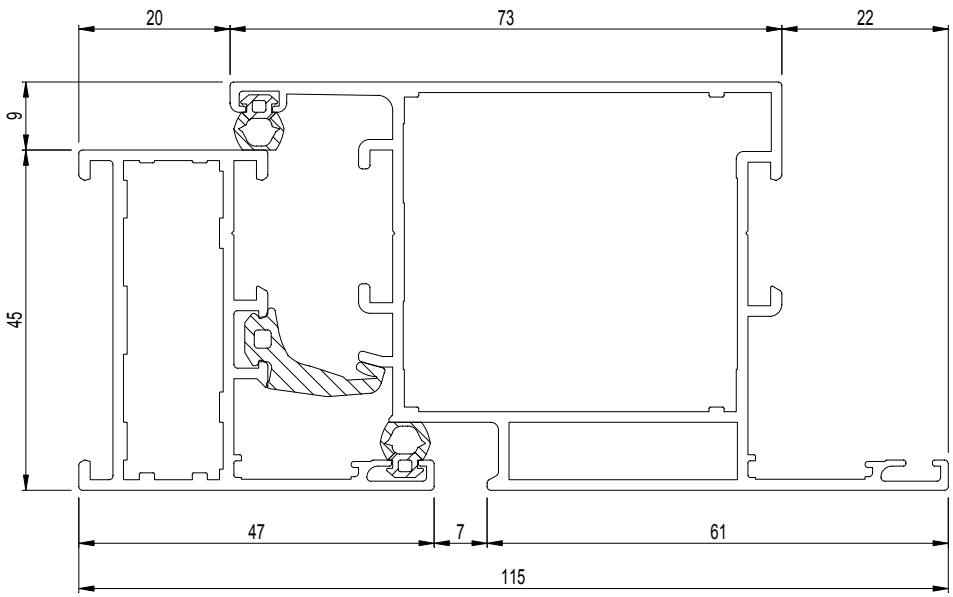
Other variants :
WFA = WINDOW FANLIGHT
WTS = WINDOW TURN AND TILT / SIDEHUNG
WDI = WINDOW DOUBLE CASEMENT INWARD OPENING
WSO = WINDOW SIDEHUNG OUTWARD OPENING > HINGES OR FRICTION STAYS
WDO = WINDOW DOUBLE CASEMENT OUTWARD OPENING
WTO = WINDOW TOPHUNG OUTWARD OPENING > HINGES OR FRICTION STAYS
DSI = DOOR SINGLE INWARD OPENING
DDI = DOOR DOUBLE INWARD OPENING
DSO = DOOR SINGLE OUTWARD OPENING
DDO = DOOR DOUBLE OUTWARD OPENING
DSOF=DOOR SINGLE OUTWARD OPENING WITH FANLIGHT

\N

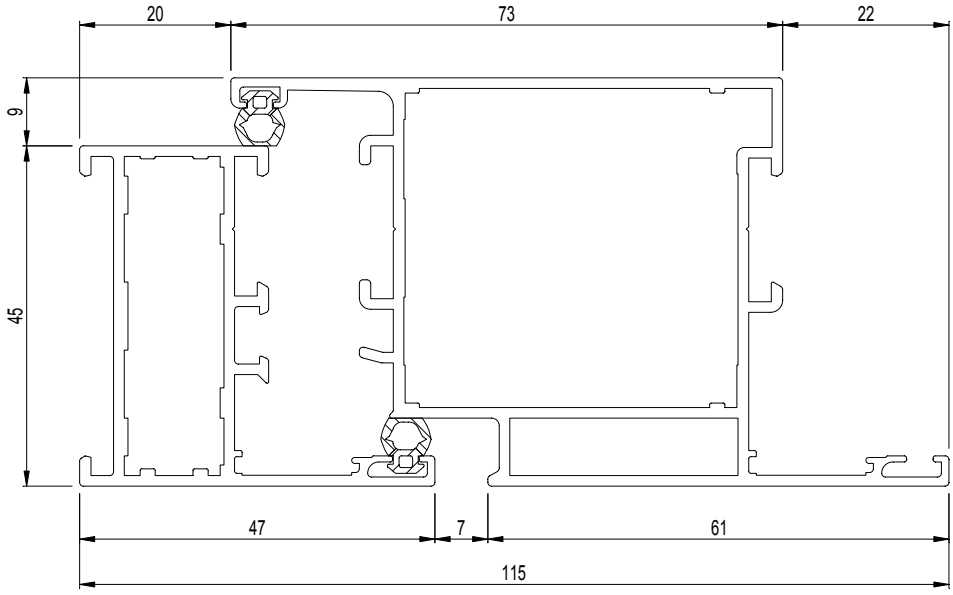
D2000124

E

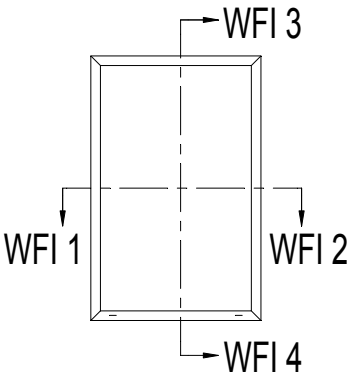
OPTIE A
OPTION A
OPTION A
OPTION A



OPTIE B
OPTION B
OPTION B
OPTION B



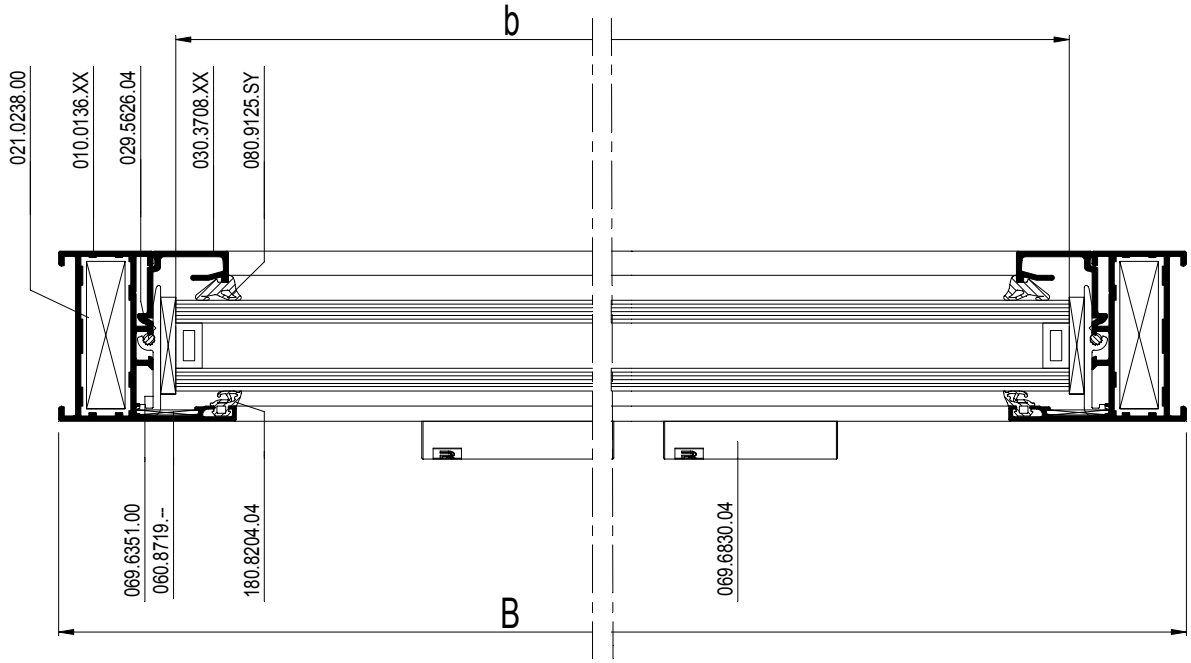
ALLE WERKTEKENINGEN ZIJN GEBASEERD OP OPTIE A
TOUS LE COUPES ET DEBITS SONT BASES SUR OPTION A
All WORKDRAWINGS ARE BASED ON OPTION A
ALLE WERKZEIHNUNGEN SIND BASIERT AUF OPTION A



			#	L_m	
010.0136.XX			2	B	02D.C....
			2	H	
030.3704.XX			2	B - 50	02D.C....
			2	H - 90	

b = B - 62
h = H - 62

WFI 1 WFI 2

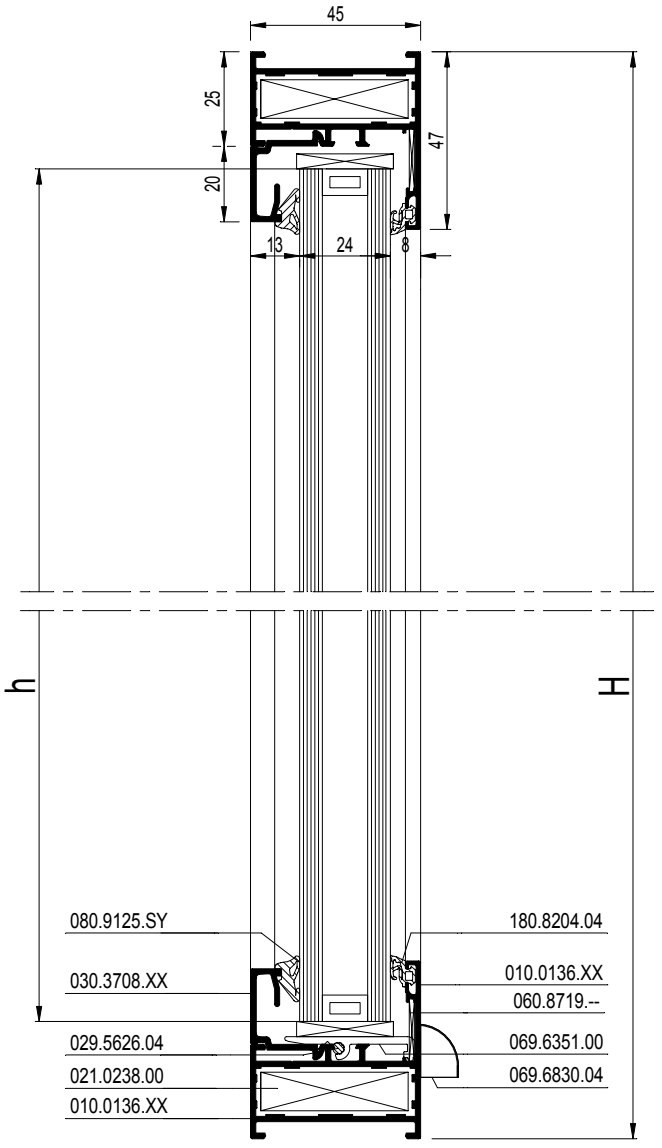


schaal - échelle
scale - Maßstab
1/2

D2000048

		#	
021.0238.00		4	02D.G....
060.8719.--		4	02D.G....
029.5626.04		4x100mm	02D.G....
069.6351.00		02D.F....	02D.G....
069.6830.04		02D.F....	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....
180.8204.04		(2xb) + (2xh)	02D.G....

WFI 3

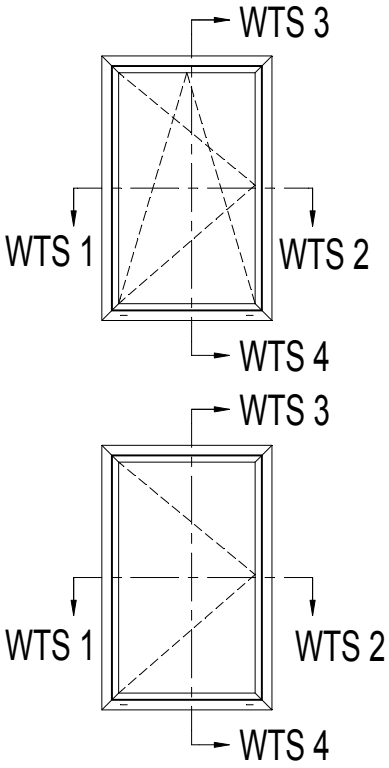


WFI 4

schaal - échelle
scale - Maßstab
1/2

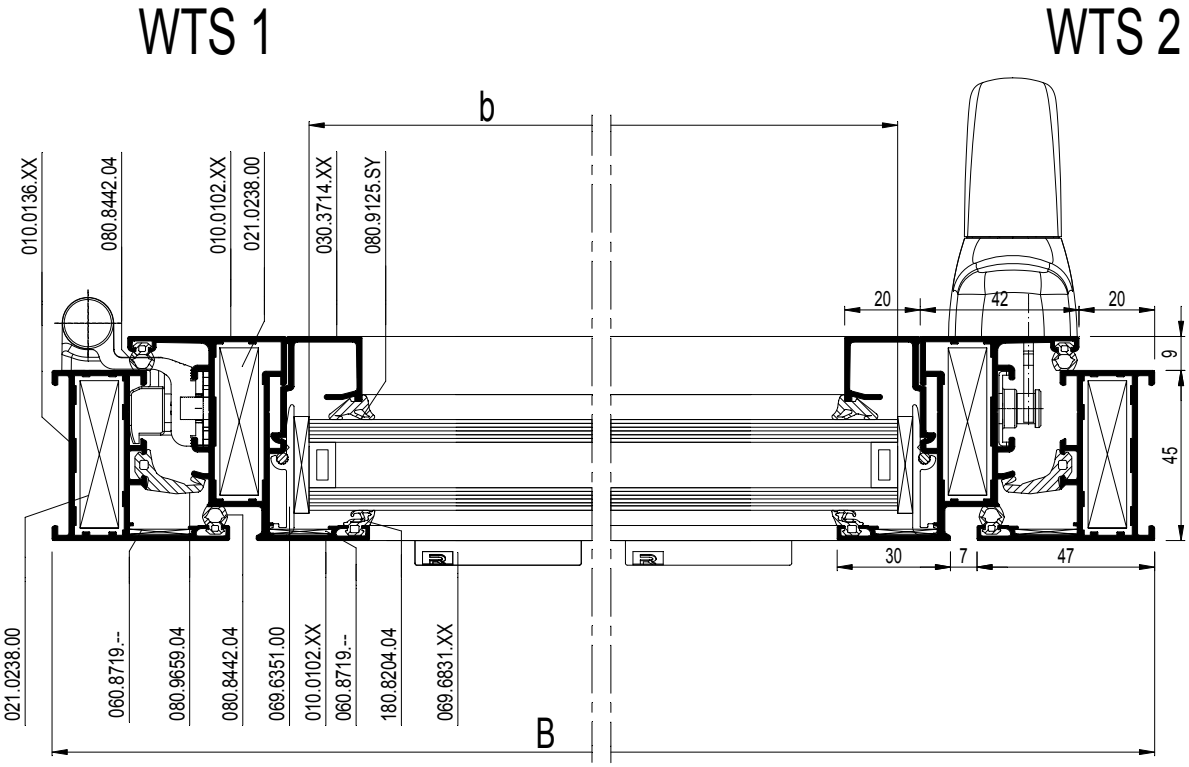
D2000048

E



			#	L_m	
010.0136.XX			2	B	02D.C....
			2	H	
010.0102.XX			2	B - 40	02D.C....
			2	H - 40	
030.3714.XX			2	B - 124	02D.C....
			2	H - 164	
004.3140.17			-	02D.F....	02D.C....

b = B - 136
h = H - 136



schaal - échelle
scale - Maßstab
1/2

D2000049

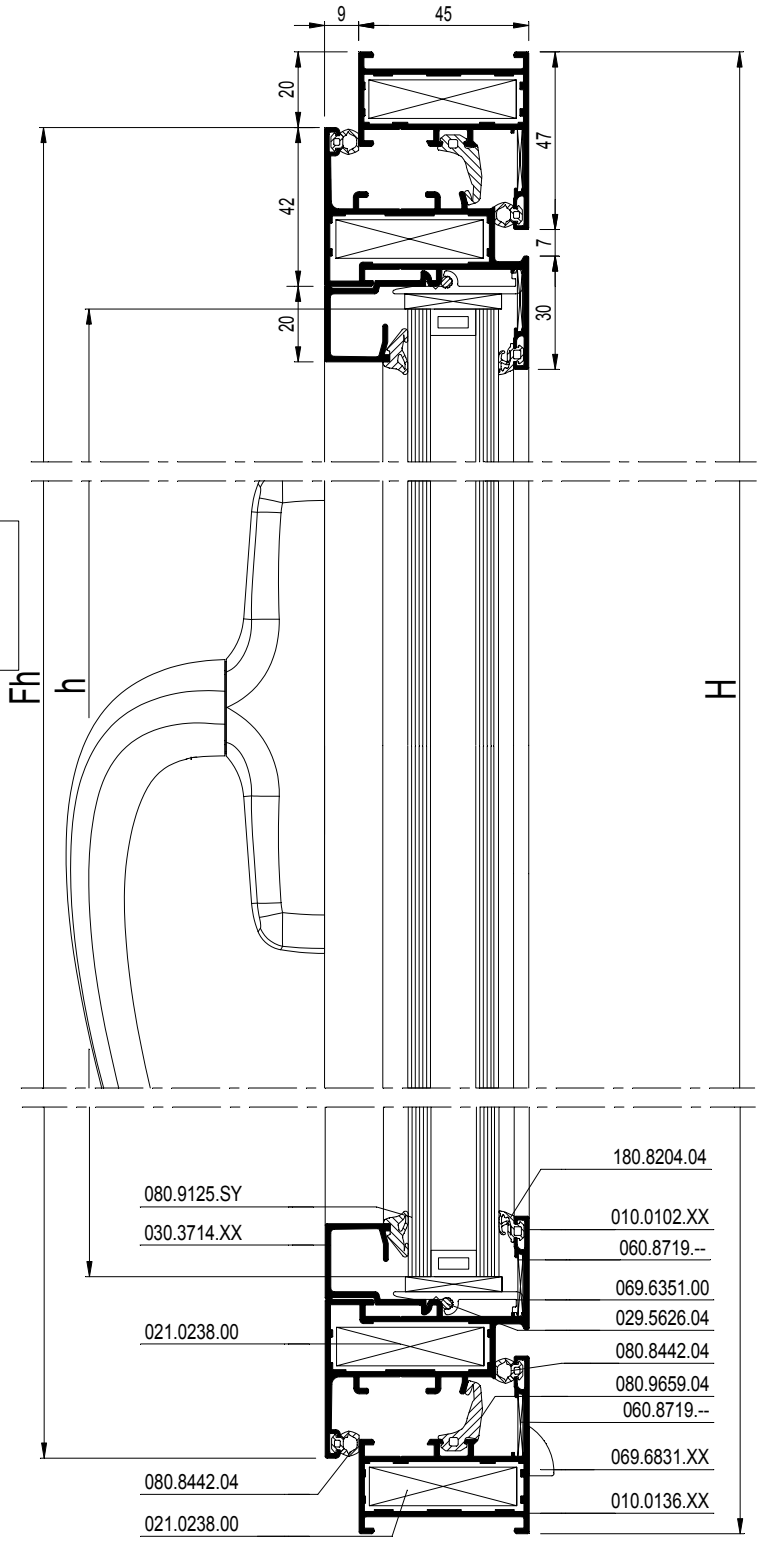
		#	☞
021.0238.00		8	02D.G....
060.8719.--		8	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		6x100mm	02D.G....
180.8204.04		(2b + 2h)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

080.8442.04		(4xB + 4xH)	02D.G....
080.9659.04		(2xB) + (2xH)	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

WTS 3



WTS 4

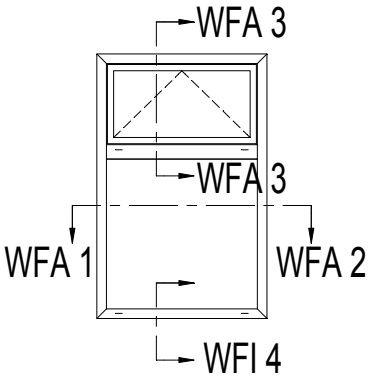
schaal - échelle
scale - Maßstab
1/2

D2000049

E

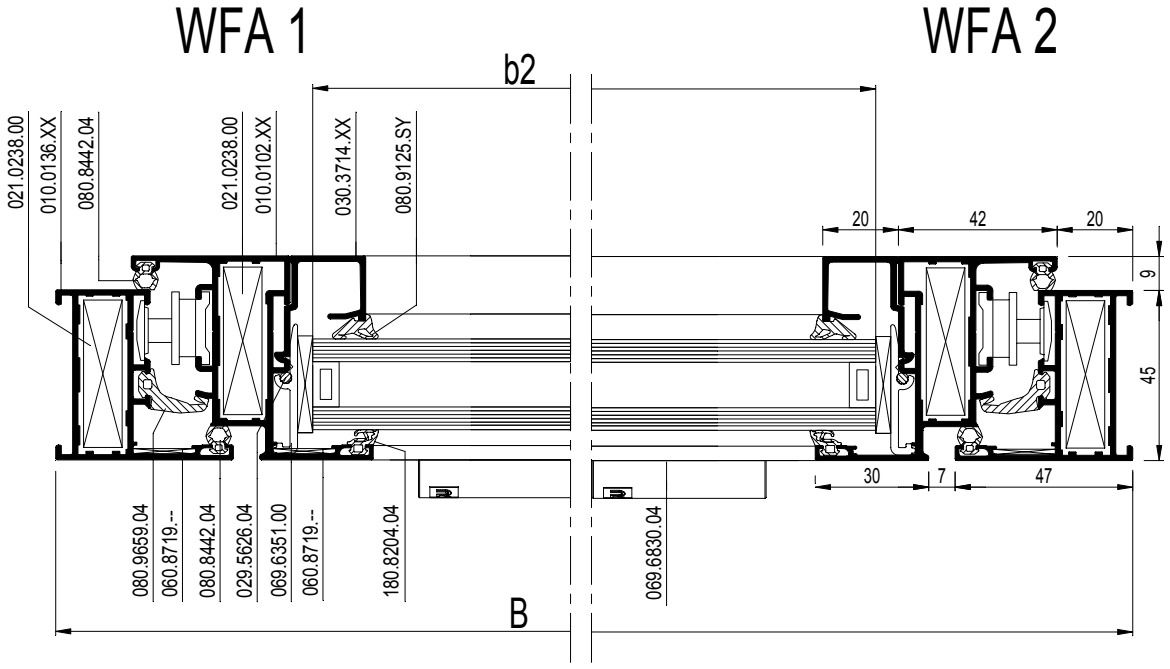
ES 45Pa

RAAM MET OPENVALLEND BOVENLICHT
FENETRE FIXE AVEC SOUFFLET
FIXED WINDOW FRAME WITH VENT
FENSTER MIT OBERLICHT



			#	Lm	
010.0136.XX			2	B	02D.C....
			2	H	
010.0102.XX			2	B - 40	02D.C....
			2	H2 - 27.5	
010.0113.XX			1	B - 50	02D.C....
030.3704.XX			2	B - 50	02D.C....
			2	H1 - 77.5	
030.3714.XX			2	B - 124	02D.C....
			2	H2 - 151.5	
004.3140.17			-	02D.F....	02D.C....

b1 = B - 62
h1 = H1 - 49.5
b2 = B - 136
h2 = H2 - 123.5



schaal - échelle
scale - Maßstab
1/2

D2000050

ES 45Pa

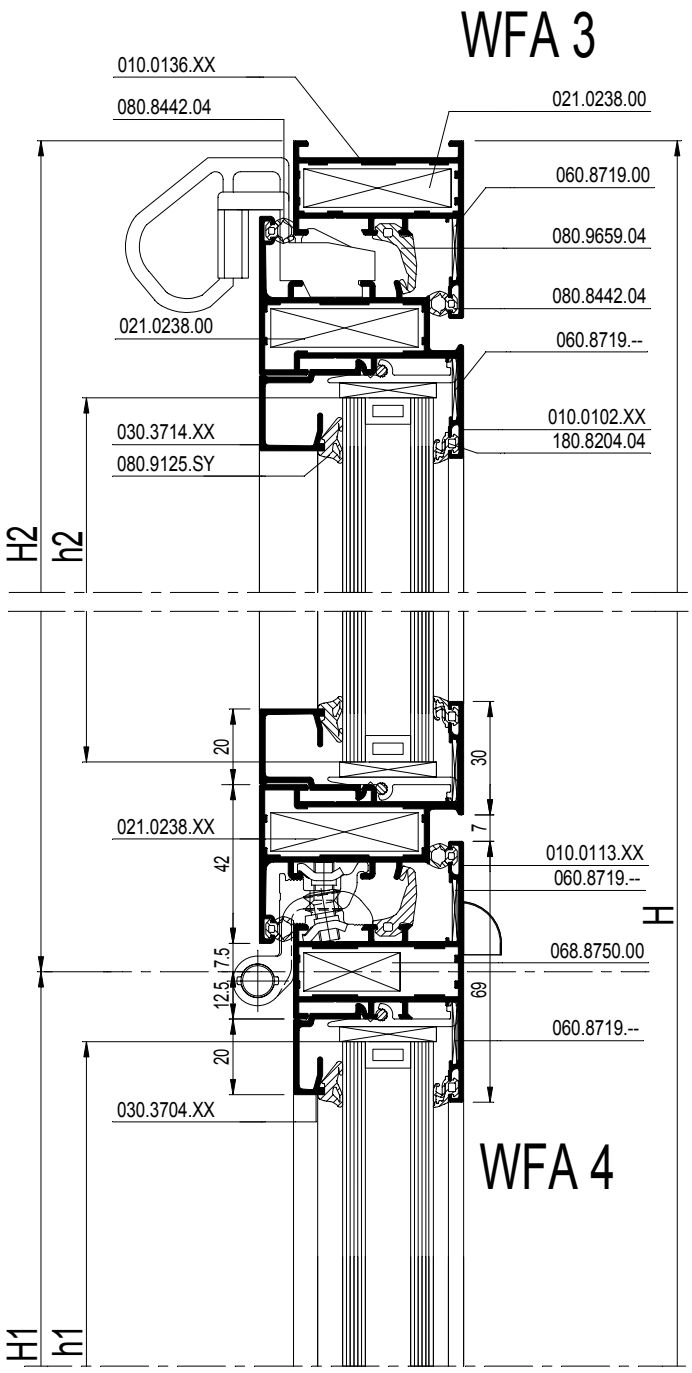
RAAM MET OPENVALLEND BOVENLICHT
FENETRE FIXE AVEC SOUFFLET
FIXED WINDOW FRAME WITH VENT
FENSTER MIT OBERLICHT

		#	☞
021.0238.00		8	02D.G....
060.8719.--		12	02D.G....
068.8750.00		2	02D.G....
069.6830.04		02D.F....	02D.G....
069.6351.00		02D.F....	02D.G....
029.5626.04		10x100mm	02D.G....
180.8204.04		(2xb1) + (2xb2)	02D.G....
		(2xh1) + (2xh2)	
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(2xh1) + (2xh2)	

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

080.8442.04		(4xB) + (4xH2)	02D.G....
080.9659.04		(2xB) + (2xH2)	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F



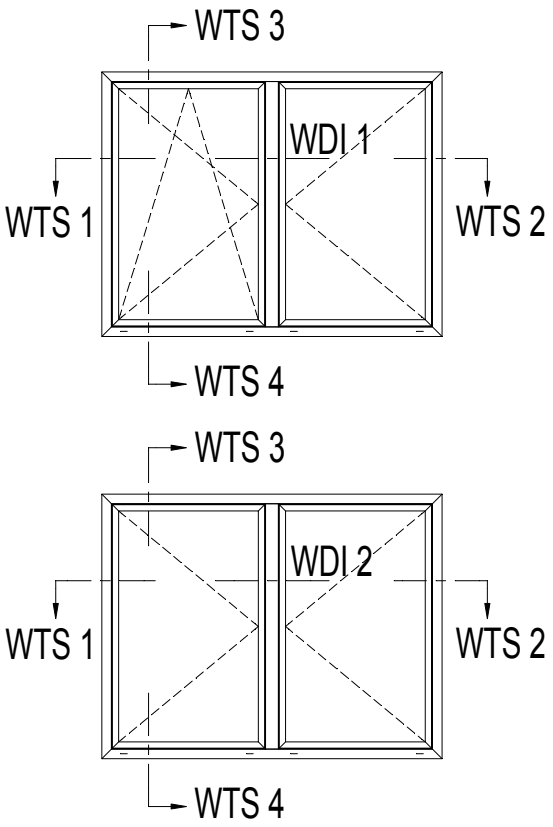
schaal - échelle
scale - Maßstab
1/2

D2000050

E

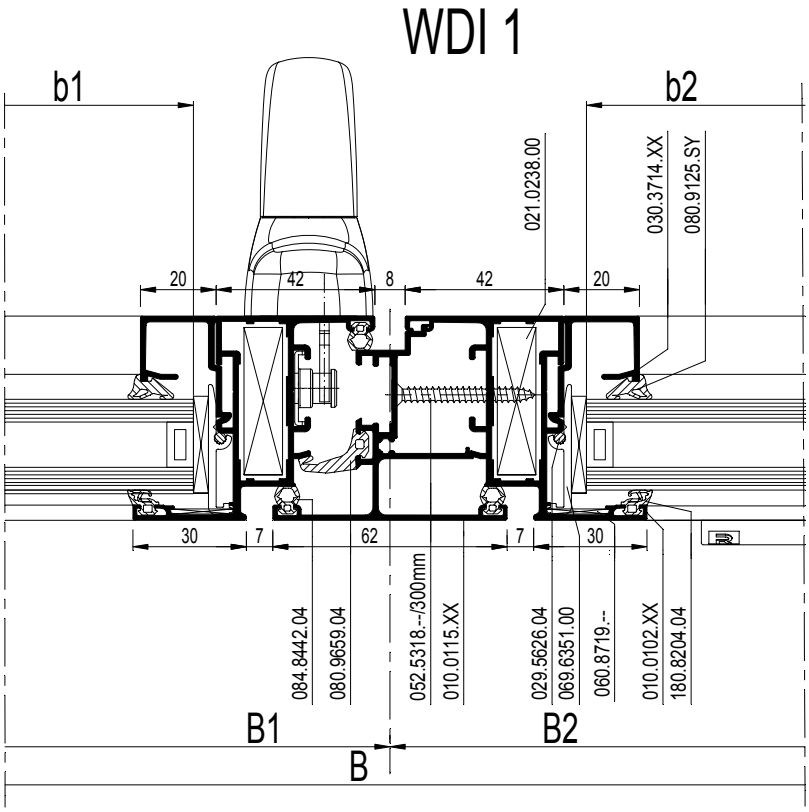
ES 45Pa

STOLP-DRAAIKIPRAAM/DRAAIRAAM
FENETRE DOUBLE OUVRANTE OSCILLO-BATTANTE/FENETRE OUVRANT A LA FFF
DOUBLE CASEMENT TURN AND TILT WINDOW/SIDE HUNG WINDOW
STULP-DREHKIPPFENSTER/DREHFENSTER



			#	Lm	
010.0136.XX			2	B	02D.C....
			2	H	
010.0102.XX			2	B1 - 24	02D.C....
			2	B2 - 24	
			4	H - 40	
010.0115.XX			1	H - 52	02D.C....
030.3714.XX			2	B1 - 108	02D.C....
			2	B2 - 108	
			4	H - 164	
004.3140.17			-	02D.F....	02D.C....

b1 = B1 - 120
h = H - 136
b2 = B2 - 120



schaal - échelle
scale - Maßstab
1/2

D2000051

E

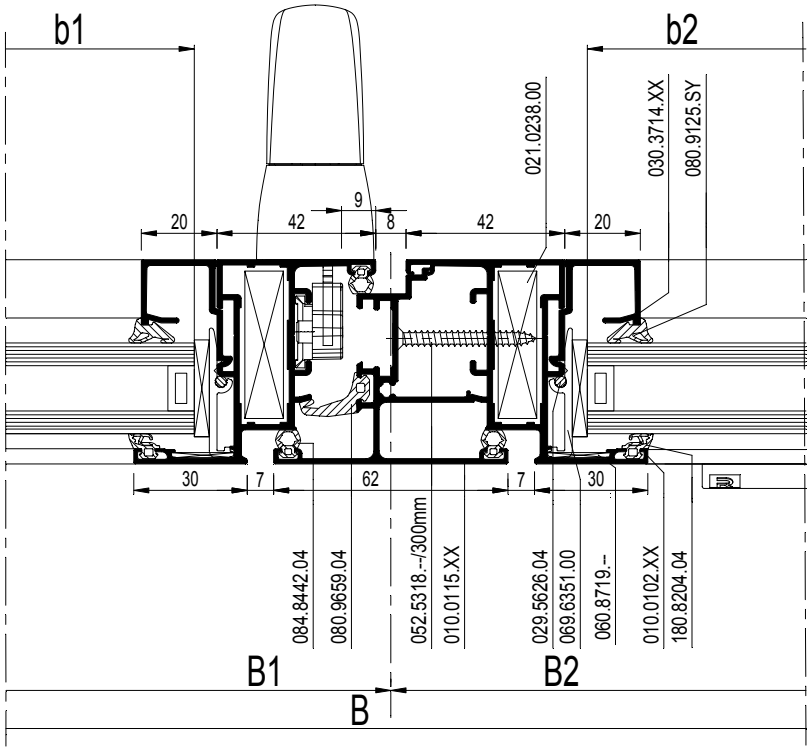
		#	☞
021.0238.00		12	02D.G....
060.8719.--		12	02D.G....
052.5318.--		1/300mm	02D.G....
069.6831.XX		02D.F....	02D.G....
069.6351.00		02D.F....	02D.G....
029.5626.04		10x100mm	02D.G....
180.8204.04		(2xb1) + (2xb2)	02D.G....
180.8204.04		(4xh)	02D.G....
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(4xh)	

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

080.8442.04		(4xB1) + (4xB2)	02D.G....
		(7xH)	
080.9659.04		(2xB) + (3xH)	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

WDI 2



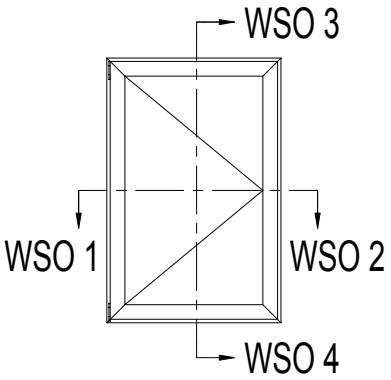
schaal - échelle
scale - Maßstab
1/2

D2000051

E

ES 45Pa

DRAAIRAAM NAAR BUITENDRAAIEND
FENETRE OUVRANT A LA FRANCAISE OUVR. VERS L'EXT.
SIDE-HUNG WINDOW OUTWARD OPENING
DREHFENSTER NACH AUSSEN OEFFNEND

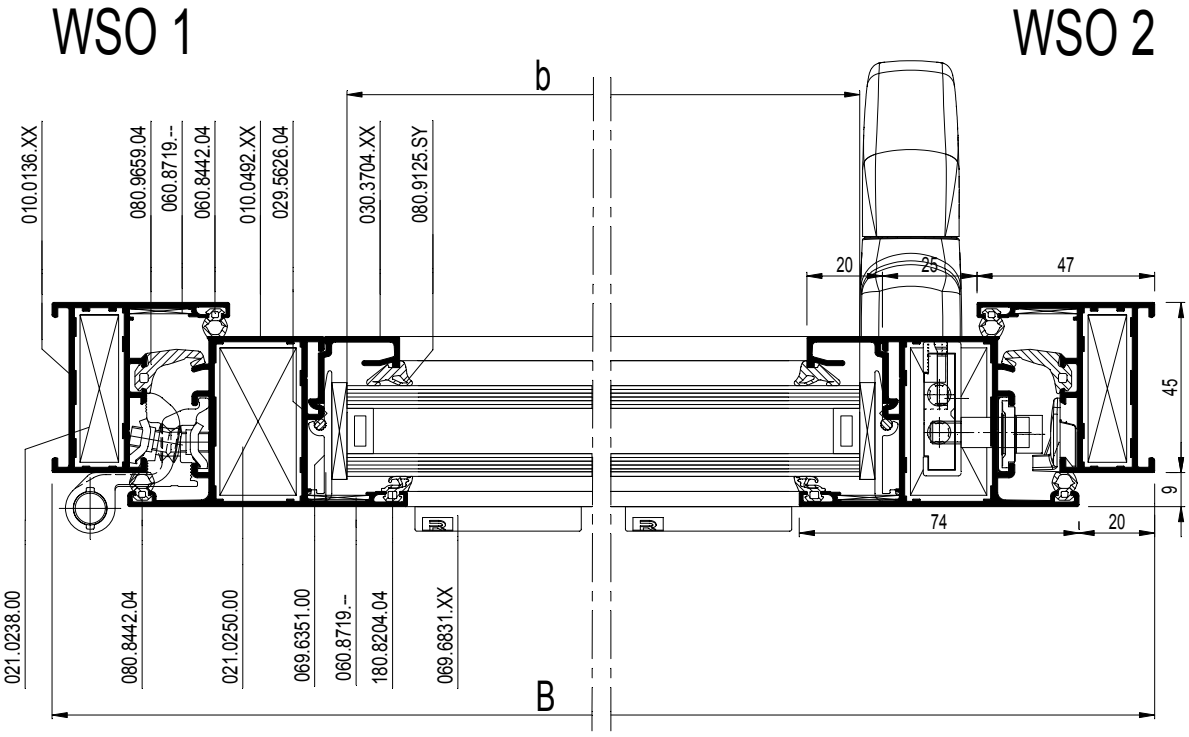


			#	Lm	
010.0136.XX			2	B	02D.C....
			2	H	
010.0492.XX			2	B - 40	02D.C....
			2	H - 40	
030.3704.XX			2	B - 144	02D.C....
			2	H - 184	
004.3140.17					

*VARIANT/VARIANTE/VARIANT/VARIANTE

004.3846.XX			1	B - 40	02D.C....

b = B - 156
h = H - 156



schaal - échelle
scale - Maßstab
1/2

D2000054

E

ES 45Pa

DRAAIRAAM NAAR BUITENDRAAIEND
FENETRE OUVRANT A LA FRANCAISE OUVR. VERS L'EXT.
SIDE-HUNG WINDOW OUTWARD OPENING
DREHFENSTER NACH AUSSEN OEFFNEND

		#	☞
021.0238.00		4	02D.G....
021.0250.00		4	02D.G....
060.8719.--		8	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
180.8204.SY		(2xb) + (2xh)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

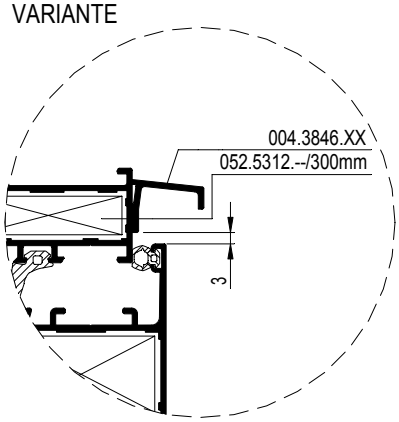
080.9659.04		(2xB) + (2xH)	02D.G....
080.8442.SY		(4xB) + (4xH)	02D.G....

*VARIANT/VARIANTE/VARIANT/VARIANTE

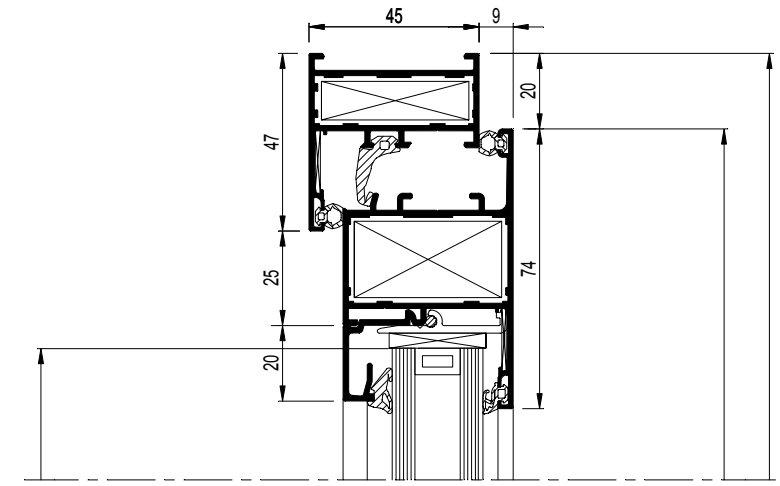
052.5312.--		1/300mm	02D.G....

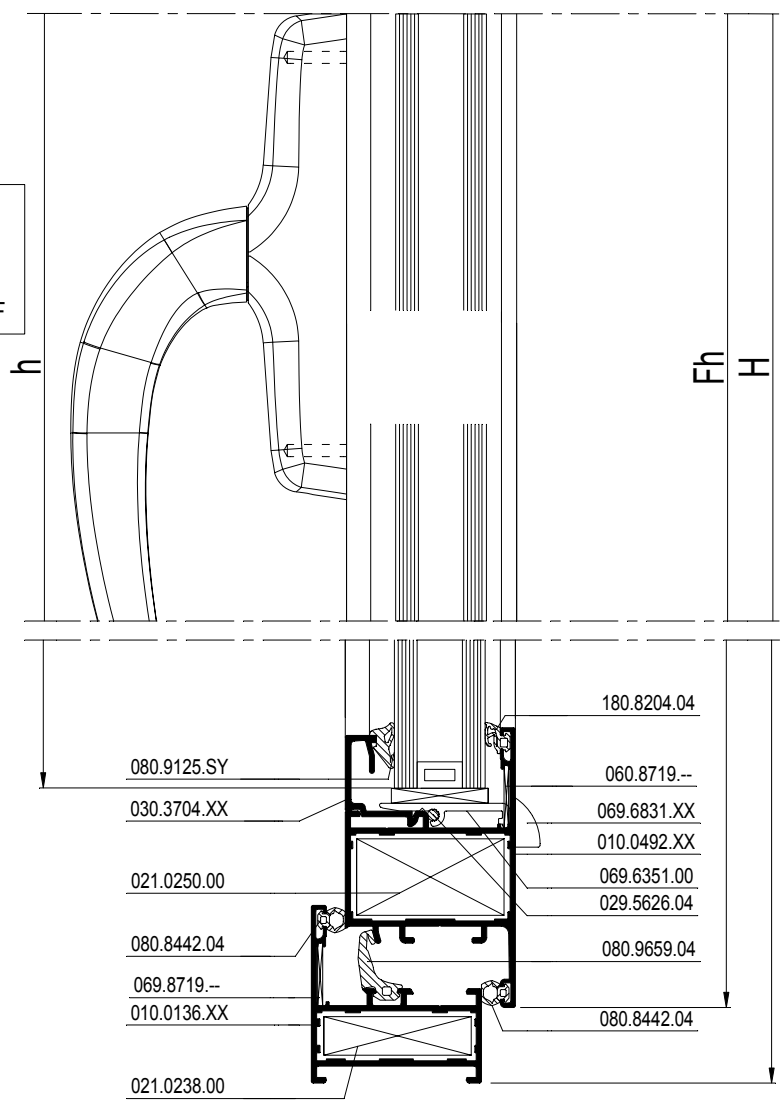
RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

* VARIANT
VARIANTE
VARIANT
VARIANTE



WSO 3





WSO 4

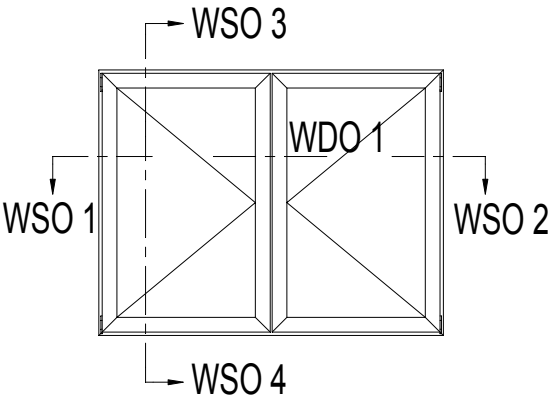
schaal - échelle
scale - Maßstab
1/2

D2000054

E

ES 45Pa

STOLPRAAM NAAR BUITENDRAAIEND
FENETRE DOUBLE OUVRANTE OUVRANT VERS L'EXT
DOUBLE CASEMENT WINDOW OUTWARD OPENING
STULPDREHFENSTER NACH AUSSEN OEFFNEND



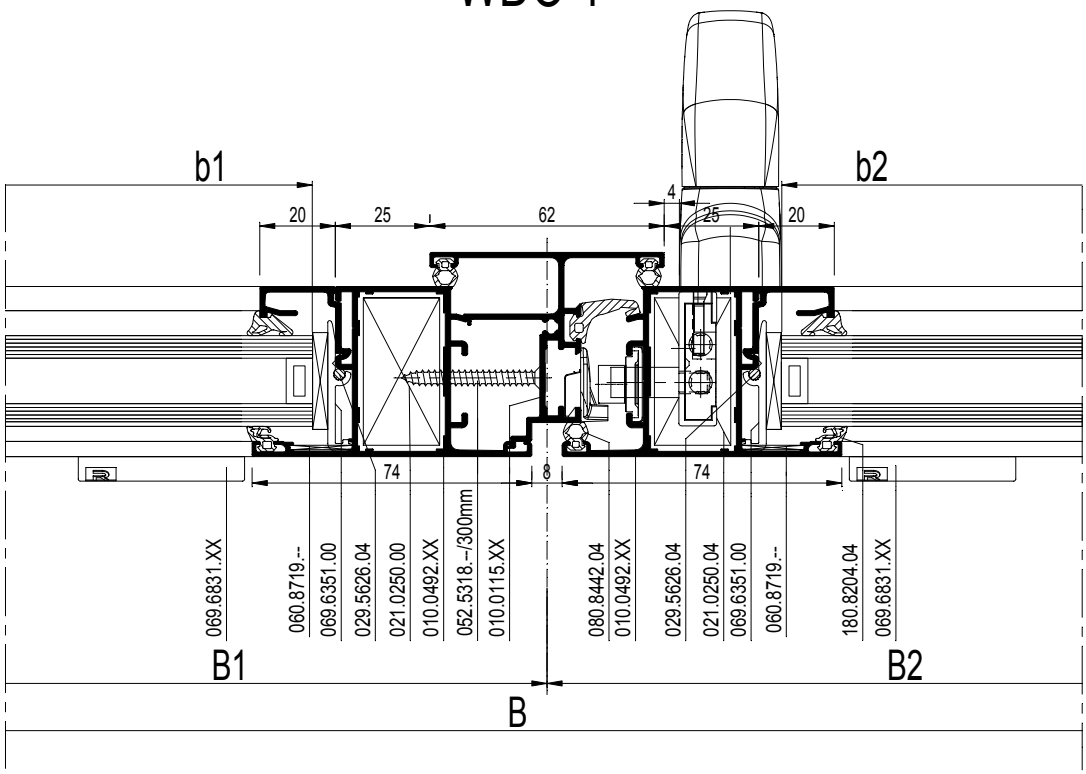
			#	L_m	
010.0136.XX			2	B	02D.C....
			2	H	
010.0492.XX			2	B1 - 24	02D.C....
			2	B2 - 24	
			4	H - 40	
010.0115.XX			1	H - 52	02D.C....
030.3704.XX			2	B1 - 128	02D.C....
			2	B2 - 128	
			4	H - 184	
004.3140.17			-	02D.F....	02D.C....

*VARIANT/VARIANTE/VARIANT/VARIANTE

004.3846.XX			1	B - 40	02D.C....

b1 = B1 - 140
h = H - 156
b2 = B2 - 140

WDO 1



schaal - échelle
scale - Maßstab
1/2

D2000055

E

ES 45Pa

STOLPRAAM NAAR BUITENDRAAIEND
FENETRE DOUBLE OUVRANTE OUVRANT VERS L'EXT
DOUBLE CASEMENT WINDOW OUTWARD OPENING
STULPDREHFENSTER NACH AUSSEN OEFFNEND

Reynaers Aluminium

		#	☞
021.0238.00		4	02D.G....
021.0250.00		8	02D.G....
060.8719.--		12	02D.G....
052.5318.--		1/300mm	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		8x100mm	02D.G....
180.8204.04		(2xb1) + (2xb2)	02D.G....
		(4xh)	
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(4xh)	

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

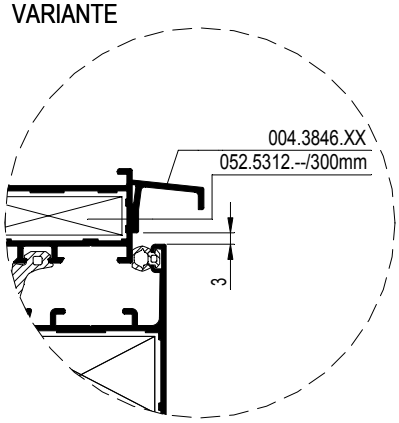
080.8442.04		(4xB1) + (4xB2)	02D.G....
		(7xH)	
080.9659.04		(2xB) + (3xH)	02D.G....

*VARIANT/VARIANTE/VARIANT/VARIANTE

052.5312.--		1/300mm	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

* VARIANT
VARIANTE
VARIANT
VARIANTE

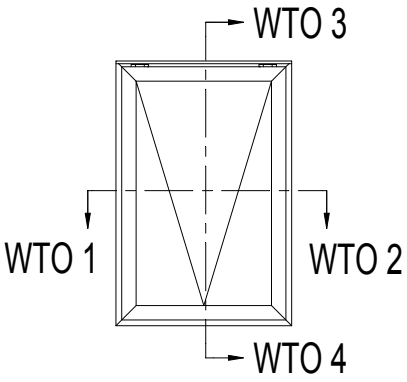


schaal - échelle
scale - Maßstab
1/2

E

ES 45Pa

UITZETRAAM NAAR BUITENDRAAIEND
FENETRE OUVRANT A SOUFFLET VERS L'EXT.
TOP-HUNG WINDOW OUTWARD OPENING
KLAPPFENSTER NACH AUSSEN OEFFNEND

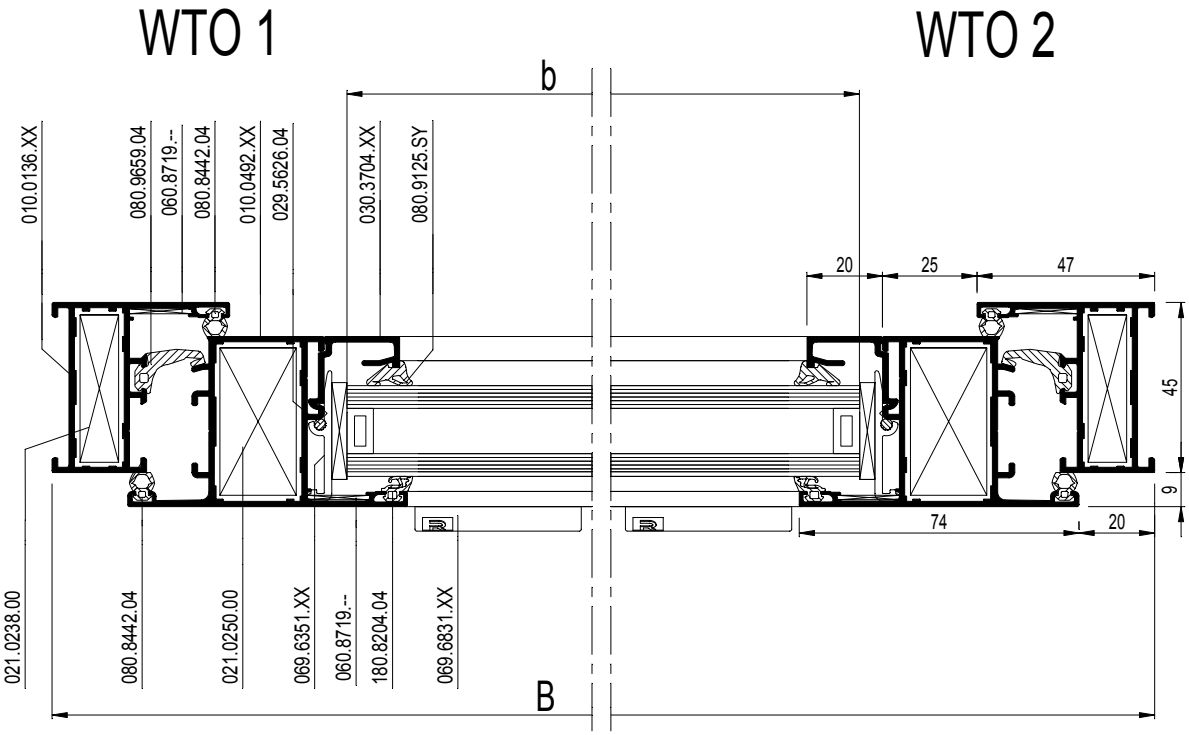


			#	L_m	
010.0136.XX			2	B	02D.C....
			2	H	
010.0492.XX			2	B - 40	02D.C....
			2	H - 40	
030.3704.XX			2	B - 144	02D.C....
			2	H - 184	
004.3140.17			-	02D.F....	02D.C....

*VARIANT/VARIANTE/VARIANT/VARIANTE

004.3846.XX			1	B - 40	02D.C....

b = B - 156
h = H - 156



schaal - échelle
scale - Maßstab
1/2

D2000056

E

		#	☞
021.0238.00		4	02D.G....
021.0250.00		4	02D.G....
060.8719.--		8	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
180.8204.04		(2xb) + (2xh)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

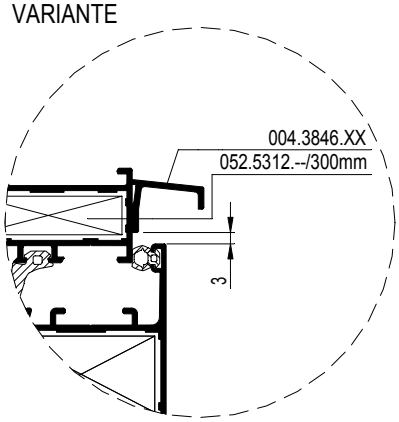
080.8442.04		(4xB) + (4xH)	02D.G....
080.9659.04		(2xB) + (2xH)	02D.G....

*VARIANT/VARIANTE/VARIANT/VARIANTE

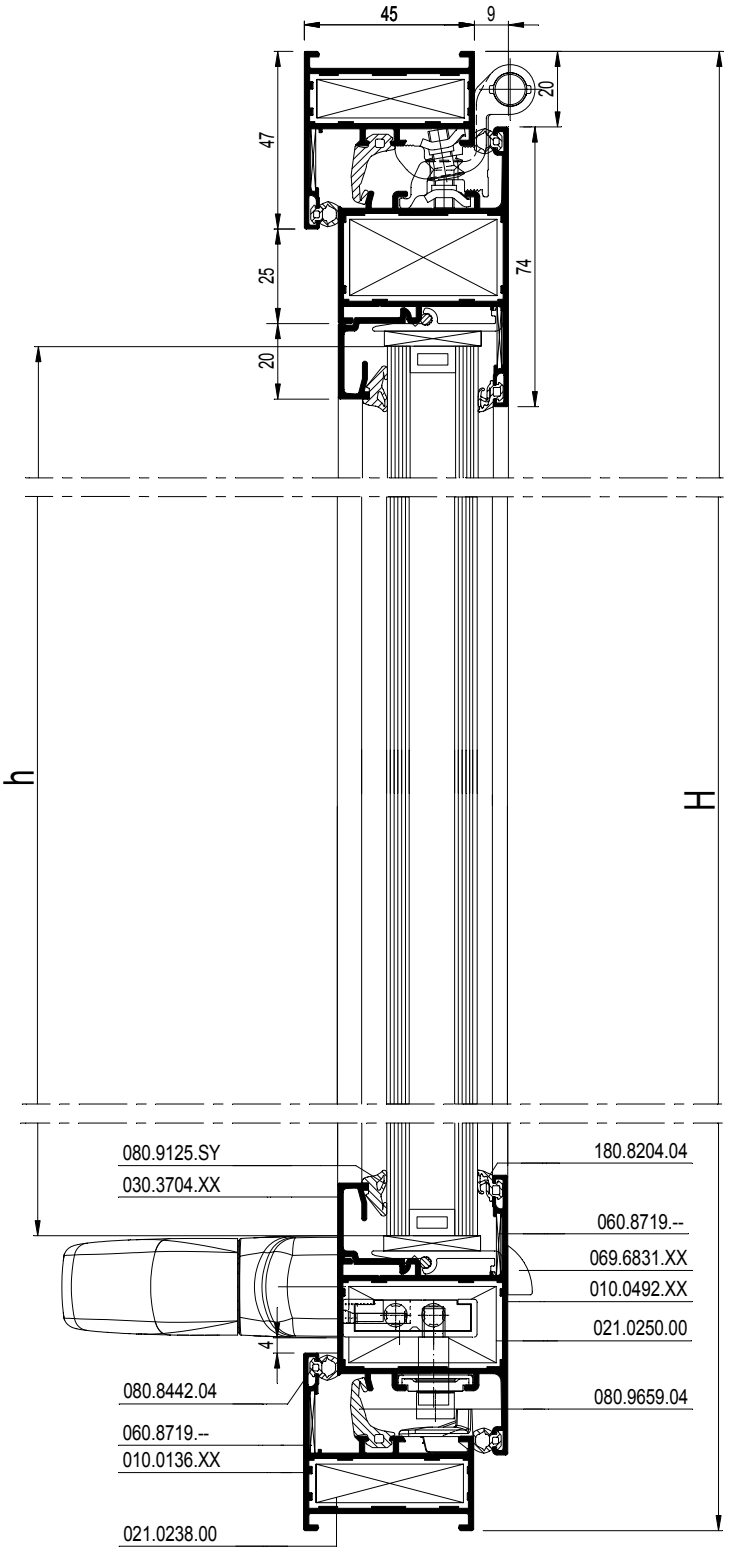
052.5312.--		1/300mm	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

* VARIANT
VARIANTE
VARIANT
VARIANTE



WTO 3

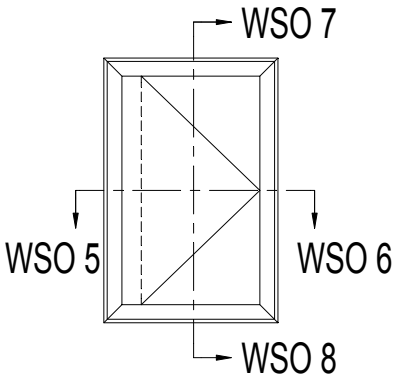


WTO 4

schaal - échelle
scale - Maßstab
1/2

D2000056

E



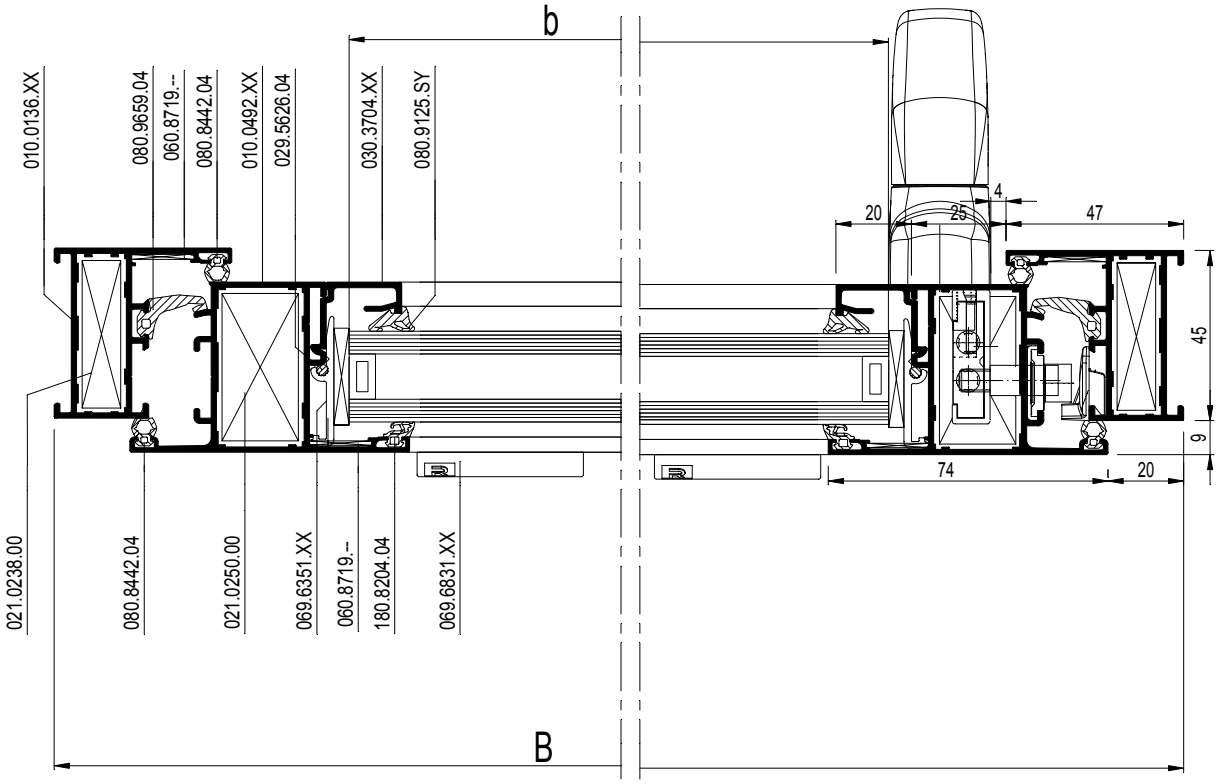
			#	L_m	
010.0136.XX			2	B	02D.C....
			2	H	
010.0492.XX			2	B - 40	02D.C....
			2	H - 40	
030.3704.XX			2	B - 144	02D.C....
			2	H - 184	
004.3140.17			-	02D.F....	02D.C....

*VARIANT/VARIANTE/VARIANT/VARIANTE

004.3846.XX			1	B - 40	02D.C....

b = B - 156
h = H - 156

WSO 5



WSO 6

schaal - échelle
scale - Maßstab
1/2

D2000057

		#	☞
021.0238.00		4	02D.G....
021.0250.00		4	02D.G....
060.8719.00		8	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		8x100mm	02D.G....
180.8204.04		(2xb) + (2xh)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

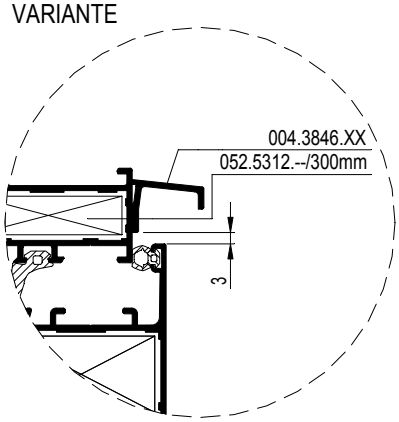
080.8442.04		(4xB) + (4xH)	02D.G....
080.9659.04		(2xB) + (2xH)	02D.G....

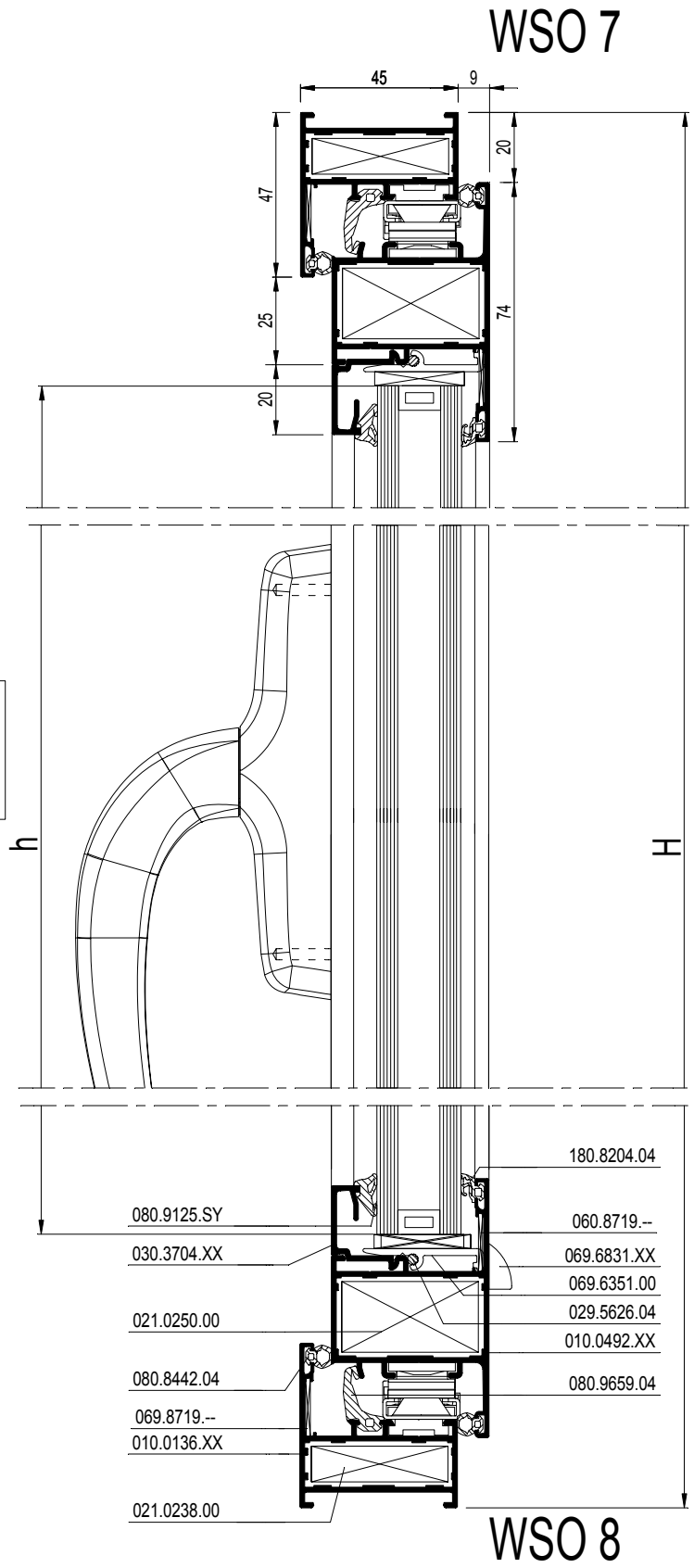
*VARIANT/VARIANTE/VARIANT/VARIANTE

052.5312.--		1/300mm	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

* VARIANT
VARIANTE
VARIANT
VARIANTE

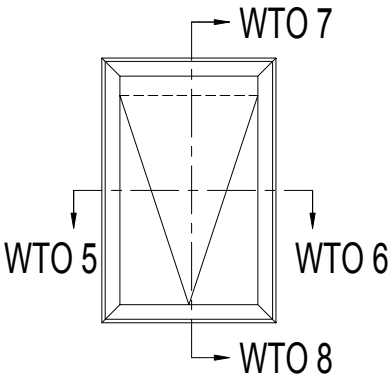




schaal - échelle
scale - Maßstab
1/2

D2000057

E

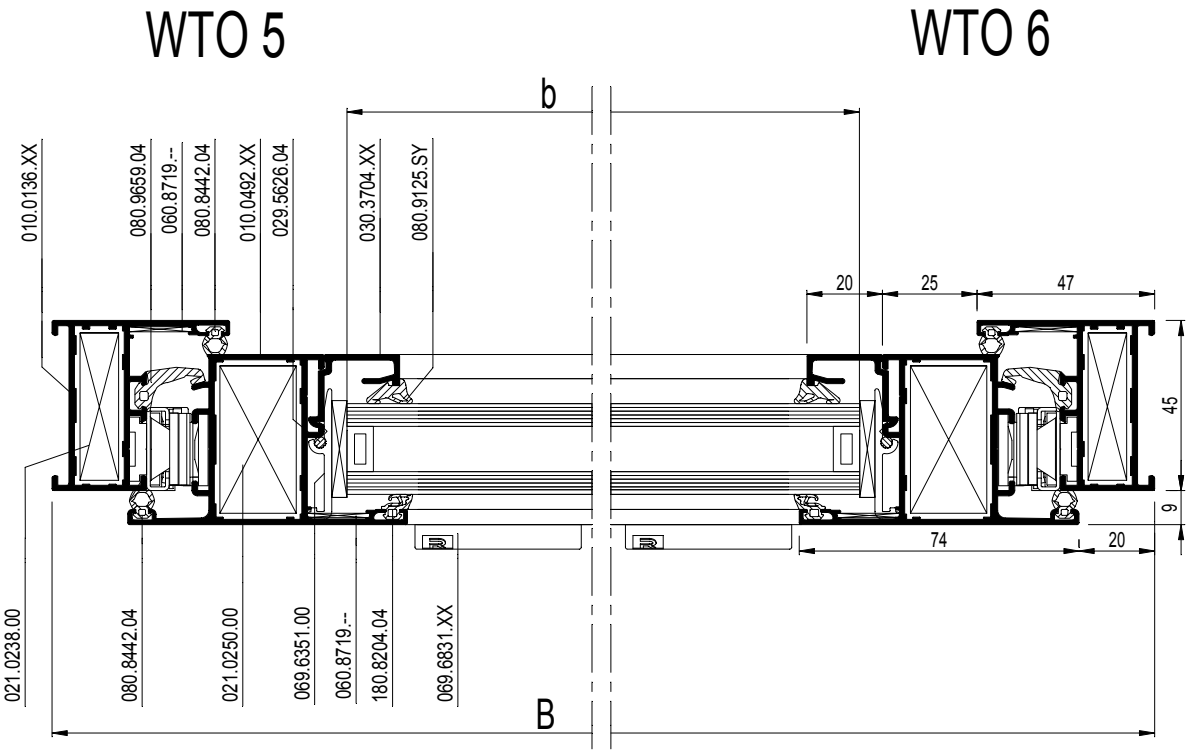


			#	L_m	
010.0136.XX			2	B	02D.C....
			2	H	
010.0492.XX			2	B - 40	02D.C....
			2	H - 40	
030.3704.XX			2	B - 144	02D.C....
			2	H - 184	
004.3140.17				02D.F....	02D.C....

*VARIANT/VARIANTE/VARIANT/VARIANTE

004.3846.XX			1	B - 40	02D.C....

b = B - 156
h = H - 156



schaal - échelle
scale - Maßstab
1/2

D2000058

		#	☞
021.0238.00		4	02D.G....
021.0250.00		4	02D.G....
060.8719.--		8	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
080.8442.04		(2xb) + (2xh)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

OPTIE A / OPTION A / OPTION A / OPTION A --> OPTION B: SEE OVERVIEW

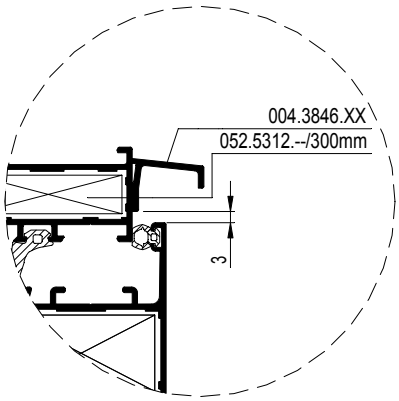
080.8442.04		(4xB) + (4xH)	02D.G....
080.9659.04		(2xB) + (2xH)	02D.G....

*VARIANT/VARIANTE/VARIANT/VARIANTE

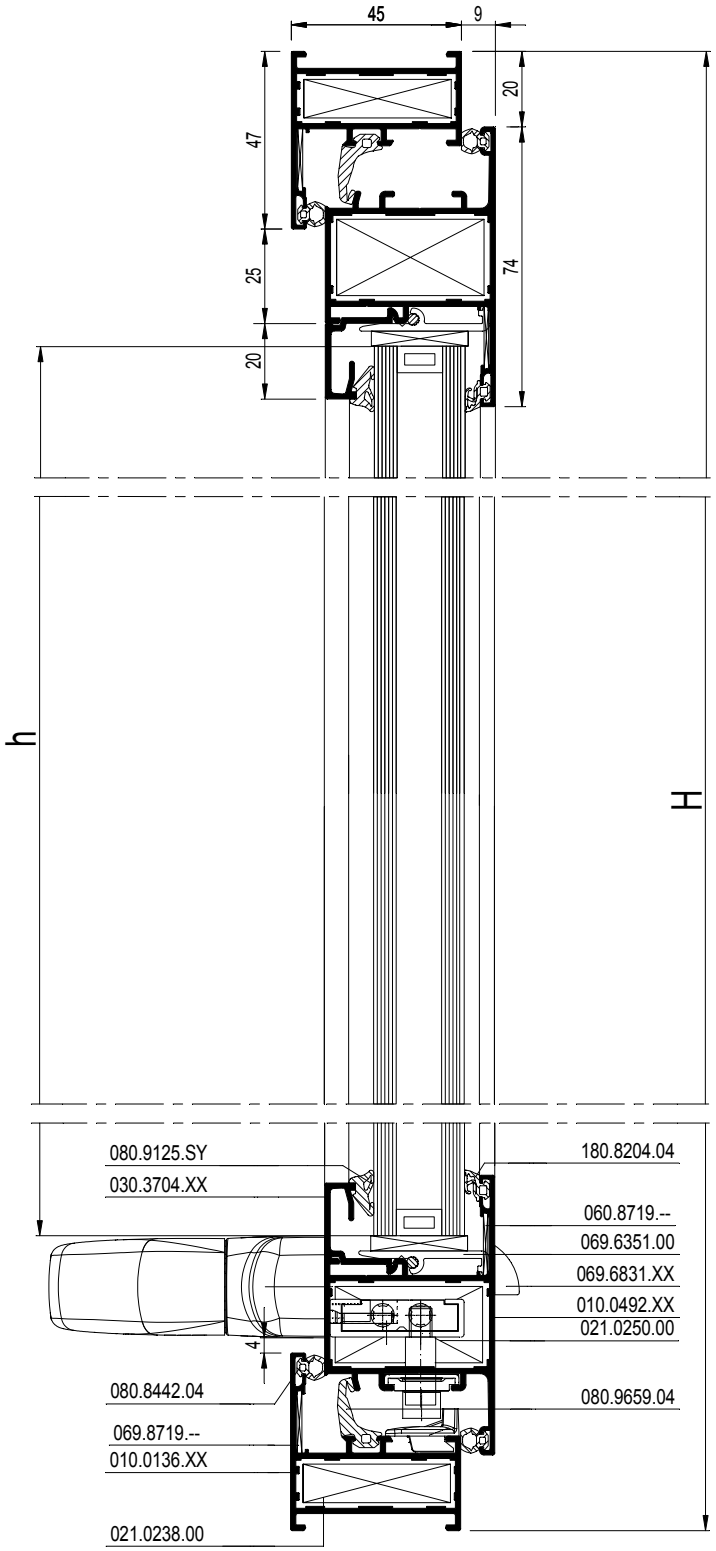
052.5312.--		1/300mm	02D.G....

RAAMBESLAG > ZIE BESTELTABELLEN HOOFDSTUK F
ACCESSOIRES FENÊTRES > VOIRE TABLEAUX
DE COMMANDE CHAPITRE F
WINDOW GEAR > SEE ORDERING TABLES CHAPTER F
FENSTERBESCHLAG > SIEHE BESTELTABELLE KAPITEL F

* VARIANT
VARIANTE
VARIANT
VARIANTE



WTO 7



WTO 8

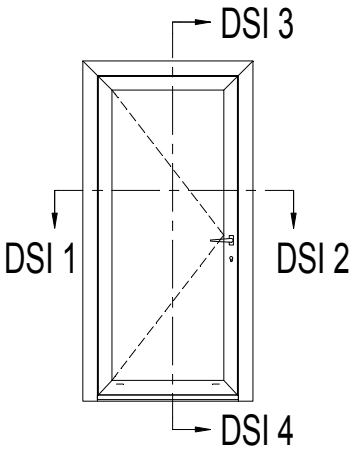
schaal - échelle
scale - Maßstab
1/2

D2000058

E

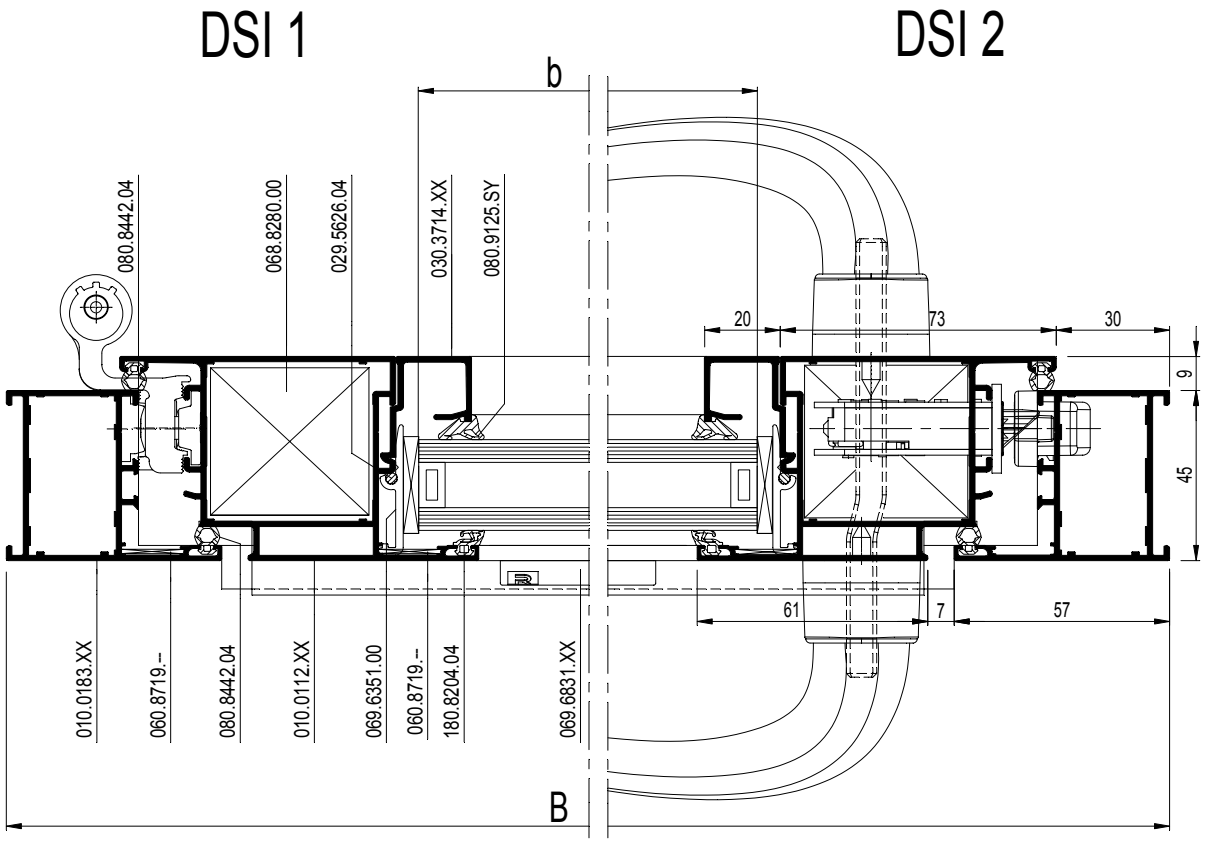
ES 45Pa

DEUR BINNENDR. MET DUBBELE AANSLAGDICHTING
PORTE DOUBLE JOINT DE BUTEE OUVR. VERS L'INT.
DOOR INWARD OPENING WITH DOUBLE WEATHER STRIP
TUER INNEN OEFFN. MIT DOPPELANSCHLAGDICHTUNG



			#	Lm	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0112.XX			2	B - 60	02D.C....
			2	H - 37	
010.0019.XX			1	B - 102	02D.C....
010.0126.XX			1	B - 70	02D.C....
030.3714.XX			2	B - 206	02D.C....
			2	H - 223	

b = B - 218
h = H - 195



schaal - échelle
scale - Maßstab
1/2

D2000059

E

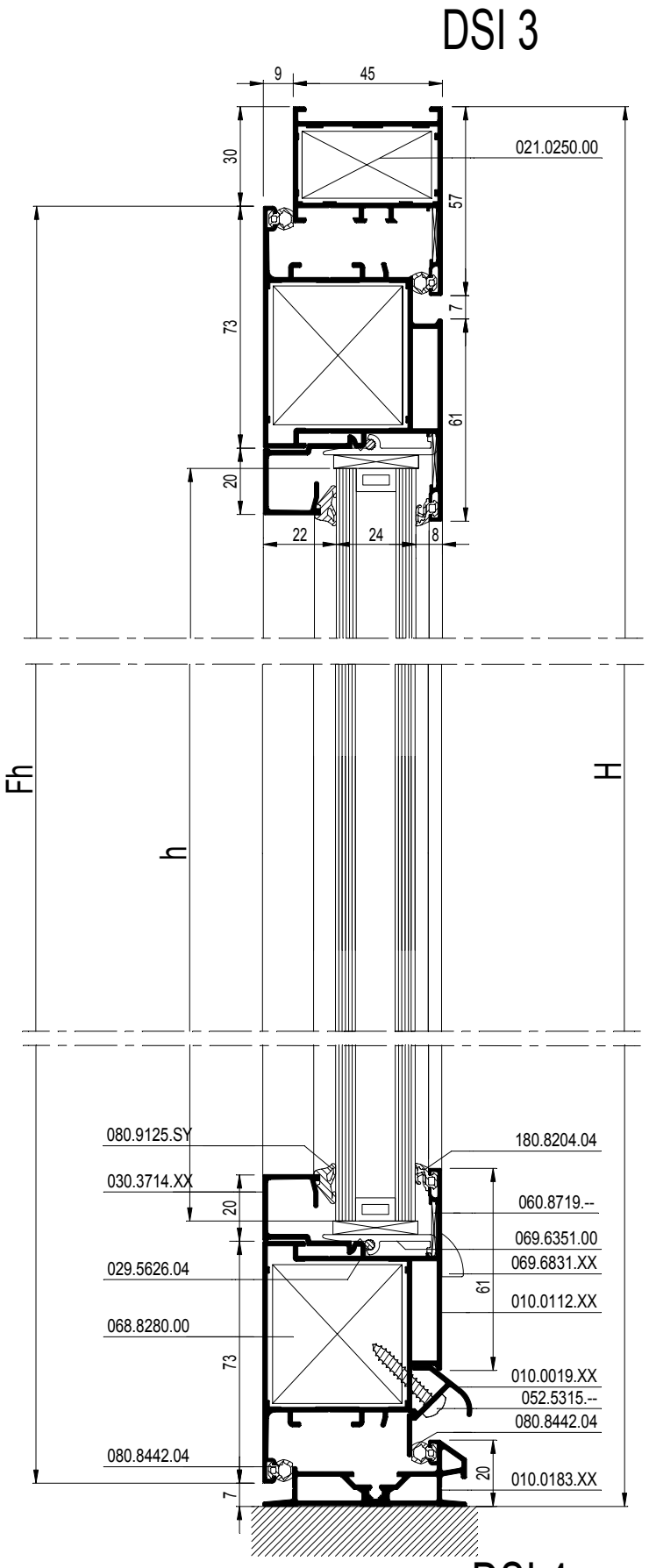
ES 45Pa

DEUR BINNENDR. MET DUBBELE AANSLAGDICHTING
PORTE AVEC DOUBLE JOINT DE BUTEE OUVR. VERS L'INT.
DOOR INWARD OPENING WITH DOUBLE WEATHER STRIP
TUER INNEN OEFFN. MIT DOPPELANSCHLAGDICHTUNG

		#	☞
021.0250.00		2	02D.G....
068.8280.00		4	02D.G....
060.8719.--		6	02D.G....
052.5314.--		2	02D.G....
052.5315.--		1/300mm	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
180.8204.04		(2b+2h)	02D.G....
080.8442.04		(4xB)+(4xH)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"



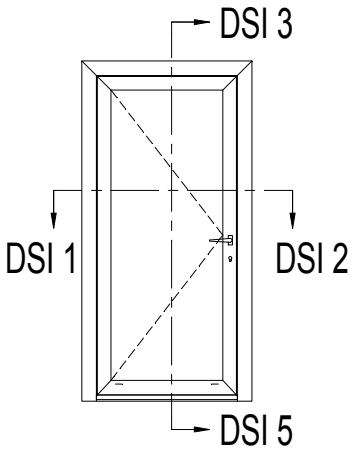
schaal - échelle
scale - Maßstab
1/2

D2000059

E

ES 45Pa

DEUR BINNENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE OUVR. VERS L'INT.
DOOR INWARD OPENING WITH BRUSH
TUER INNEN OEFFN. MIT BUERSTENDICHTUNG



			#	Lm	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0112.XX			2	B - 60	02D.C....
			2	H - 37	
010.0049.XX			1	B - 118	02D.C....
030.3714.XX			2	B - 206	02D.C....
			2	H - 223	
001.0071.XX			1	B - 70	02D.C....

b = B - 218
h = H - 195

E

schaal - échelle
scale - Maßstab
1/2

D2000060

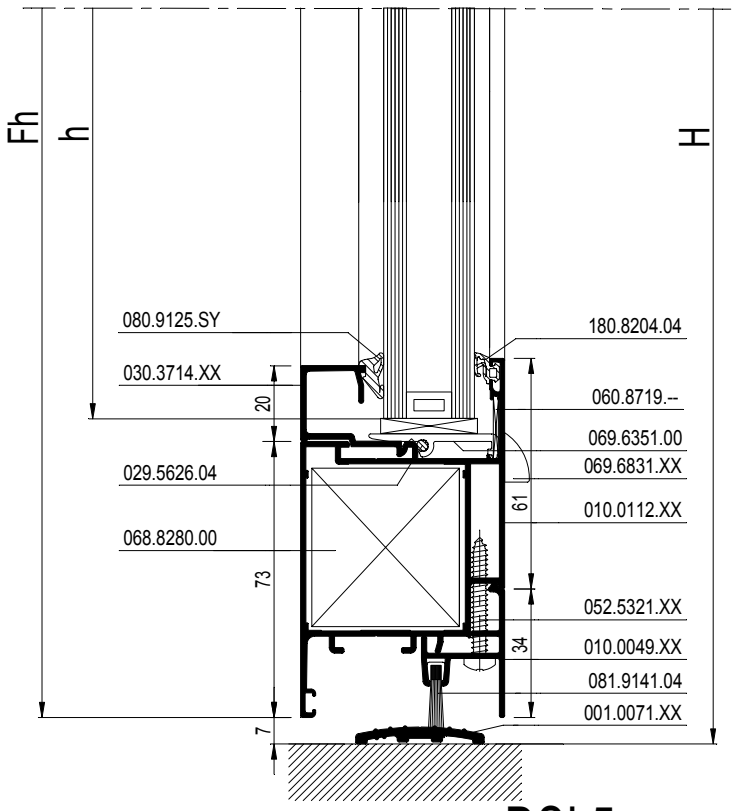
ES 45Pa

DEUR BINNENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE OUVR. VERS L'INT.
DOOR INWARD OPENING WITH BRUSH
TUER INNEN OEFFN. MIT BUERSTENDICHTUNG

		#	☞
021.0250.00		2	02D.G....
068.8280.00		4	02D.G....
060.8719.--		6	02D.G....
052.5321.--		1/300mm	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
180.8204.04		(2b+2h)	02D.G....
080.8442.04		(4xB)+(4xH)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"



DSI 5

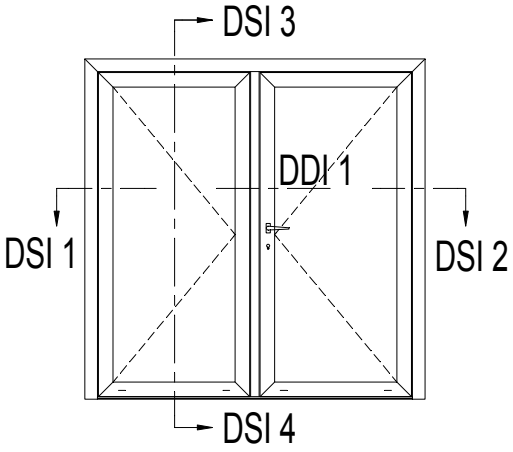
schaal - échelle
scale - Maßstab
1/2

D2000060

E

ES 45Pa

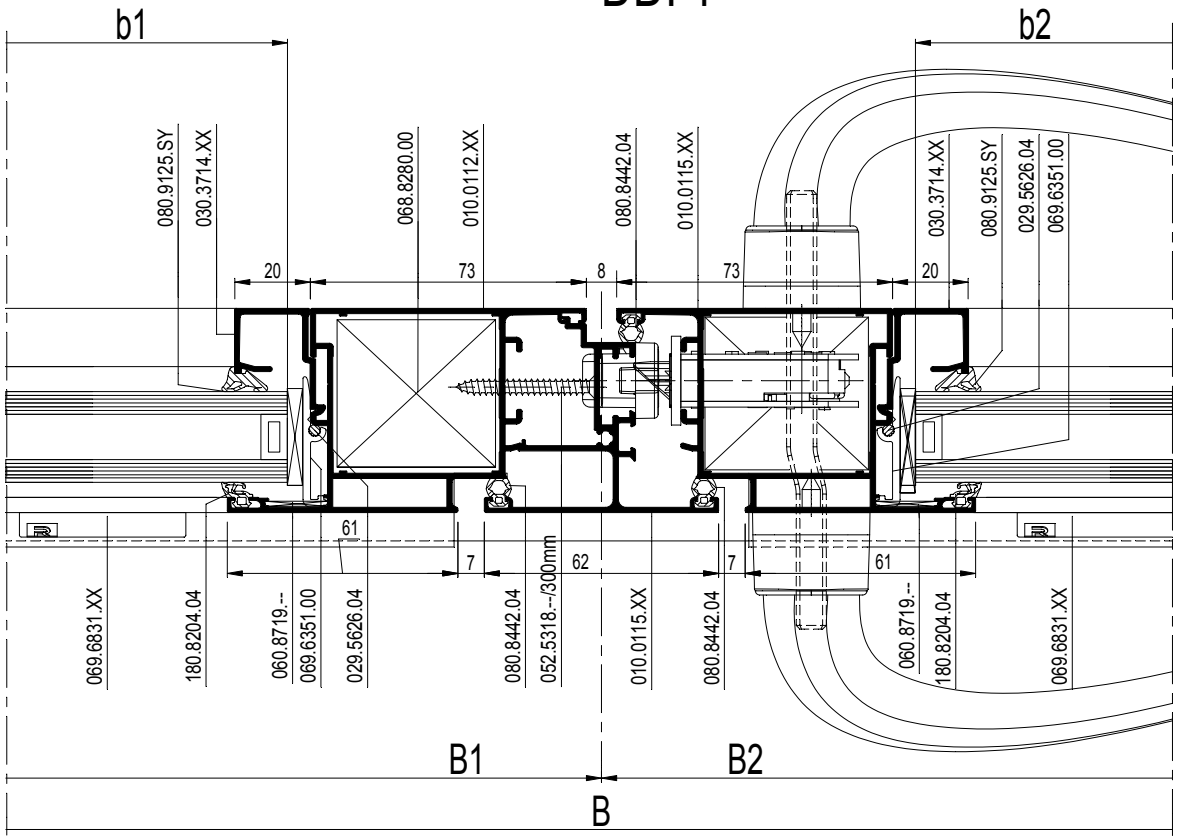
STOLPDEUR BINNENDRAAIEND MET DUBBELE AANSLAGDICHTING
PORTE DOUB. AVEC DOUB. JOINT DE BUTEE OUVR. V. L'INT.
DOUBLE CASEM. D. INW. OPENI. WITH DOUB. WEATHER STRIP
STULPFL.TUER IN. OEFFN. MIT DOPPELANSCHLAGDICHT.



			#	L_m	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0112.XX			2	B1 - 34	02D.C....
			2	B2 - 34	
			4	H - 37	
010.0115.XX			1	Fh-14	02D.C....
010.0019.XX			1	B1-76	02D.C....
			1	B2-76	
010.0126.XX			1	B - 70	02D.C....
030.3714.XX			2	B1 - 180	02D.C....
			2	B2 - 180	
			4	H - 223	

b1 = B1 - 198
h = H - 195
b2 = B2 - 198

DDI 1



schaal - échelle
scale - Maßstab
1/2

D2000061

E

ES 45Pa

STOLPDEUR BINNENDRAAIEND MET DUBBELE AANSLAGDICHTING
PORTE DOUBLE AVEC D. JOINT DE BUTEE OUVR. V. L'INT.
DOUBLE CASEM. D. INW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER IN. OEFFN. MIT DOPPELANSCHLAGDICHTUNG

Reynaers Aluminium

		#	☞
021.0250.00		2	02D.G....
068.8280.00		8	02D.G....
060.8719.--		10	02D.G....
052.5314.--		2	02D.G....
052.5315.--		1/300mm	02D.G....
052.5318.--		1/300mm	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		8x100mm	02D.G....
080.8442.04		(4xB1)+(4xB2)	02D.G....
		(7xH)	
180.8204.04		(2xb1)+(2xb2)	02D.G....
		(4xh)	
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(4xh)	

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"

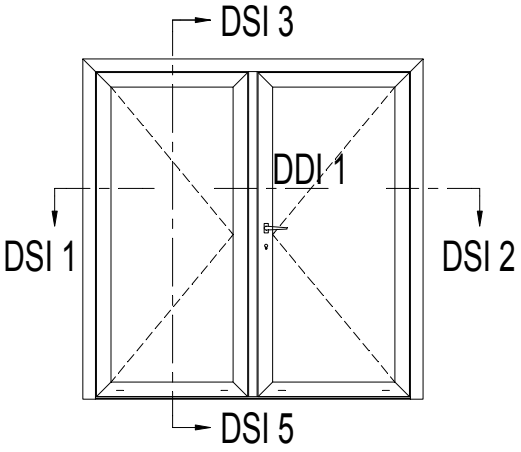
E

schaal - échelle
scale - Maßstab
1/2

D2000061

ES 45Pa

STOLPDEUR BINNENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE DOUBLE OUVR. VERS L'INT.
DOUBLE CASEMENT DOOR INWARD OPEN. WITH BRUSH
STULPFLUEGELTUER INNER OEFFN.MIT BUERSTENDICHT.



			#	Lm	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0112.XX			2	B1 - 34	02D.C....
			2	B2 - 34	
			4	H - 37	
010.0115.XX			1	Fh-7	02D.C....
010.0049.XX			1	B1 - 92	02D.C....
			1	B2 - 92	
001.0071.XX			1	B - 70	02D.C....
030.3716.XX			2	B1 - 180	02D.C....
			2	B2 - 180	
			4	H - 223	

b1 = B1 - 192
h = H - 195
b2 = B2 - 192

E

schaal - échelle
scale - Maßstab
1/2

D2000062

ES 45Pa

STOLPDEUR BINNENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE DOUBLE OUVR. VERS L'INT.
DOUBLE CASEMENT DOOR INWARD OPEN. WITH BRUSH
STULPFLUEGELTUER INNER OEFFN.MIT BUERSTENDICHT.

Reynaers Aluminium

		#	☞
021.0250.00		2	02D.G....
068.8280.00		8	02D.G....
060.8719.--		10	02D.G....
052.5318.--		1/300mm	02D.G....
052.5321.--		1/300mm	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		8x100mm	02D.G....
080.8442.04		(4xB1)+(4xB2)	02D.G....
		(7xH)	
180.8204.04		(2xb1)+(2xb2)	02D.G....
		(4xh)	
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(4xh)	

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"

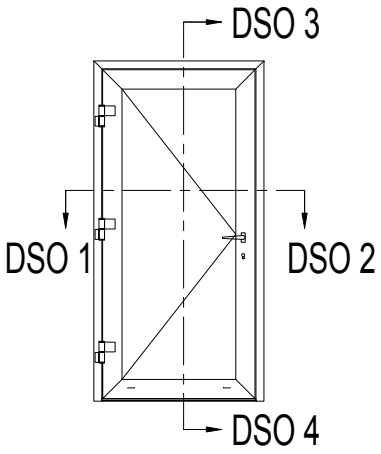
E

schaal - échelle
scale - Maßstab
1/2

D2000062

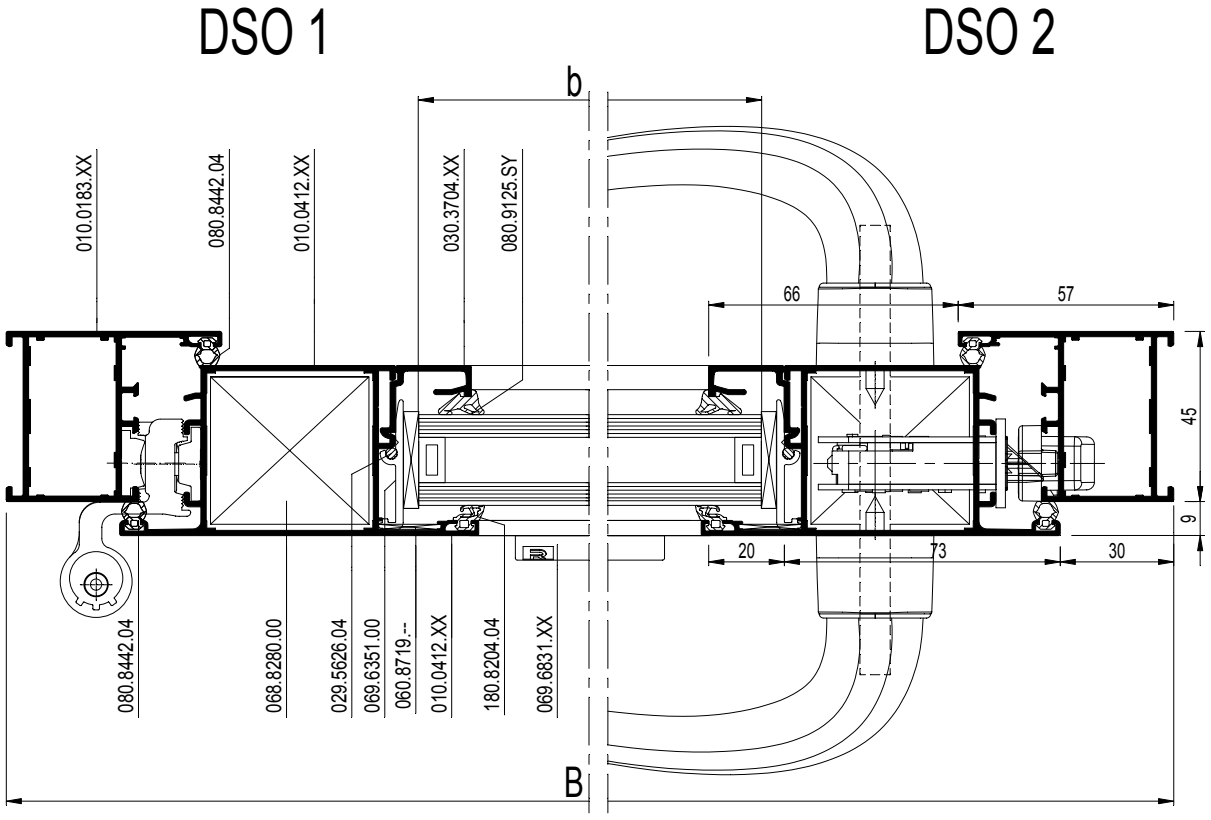
ES 45Pa

DEUR BUITENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE OUVR. VERS L'EXT.
DOOR OUTWARD OPENING WITH BRUSH
TUER NACH AUSSEN OEFFN. MIT BUERSTENDICHTUNG



			#	L_m	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0412.XX			2	B - 60	02D.C....
			2	H - 37	
010.0030.XX			1	B - 102	02D.C....
001.0071.XX			1	B - 70	02D.C....
030.3704.XX			2	B - 206	02D.C....
			2	H - 223	

b = B - 218
h = H - 195



schaal - échelle
scale - Maßstab
1/2

D2000063

E

ES 45Pa

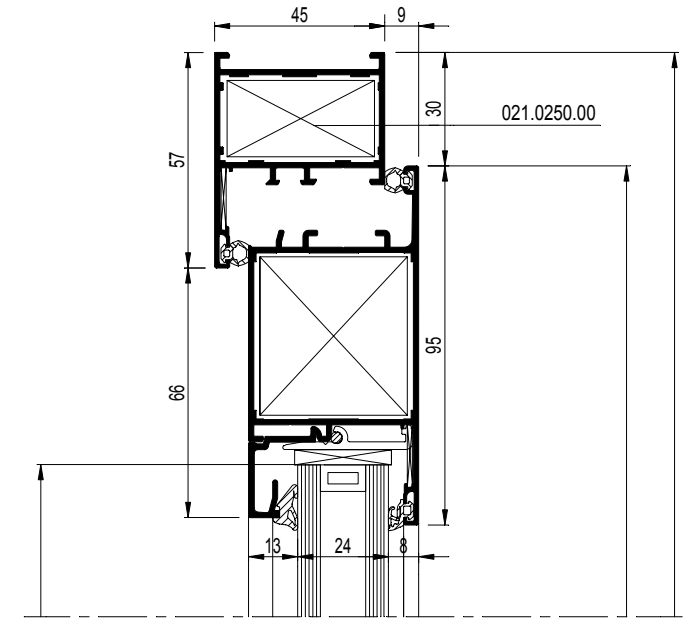
DEUR BUITENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE OUVR. VERS L'EXT.
DOOR OUTWARD OPENING WITH BRUSH
TUER NACH AUSSEN OEFFN. MIT BUERSTENDICHTUNG

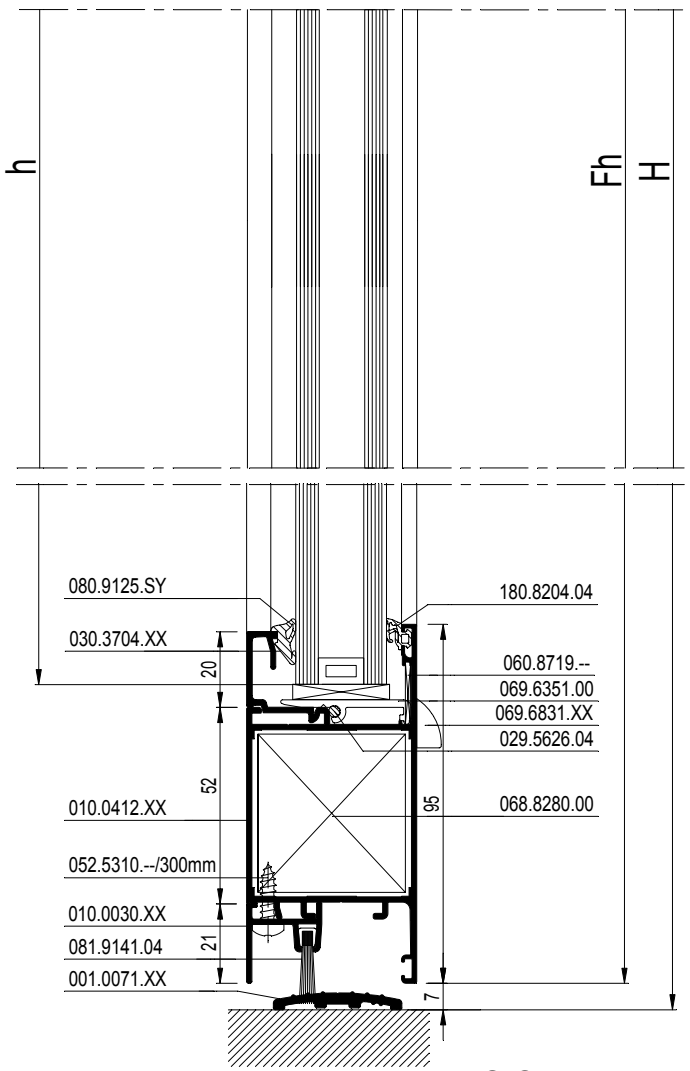
		#	☞
021.0250.00		2	02D.G....
068.8280.00		4	02D.G....
060.8719.--		6	02D.G....
052.5310.--		1/300mm	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
180.8204.04		(2b+2h)	02D.G....
080.8442.04		(2xB)+(4xH)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"

DSO 3





DSO 4

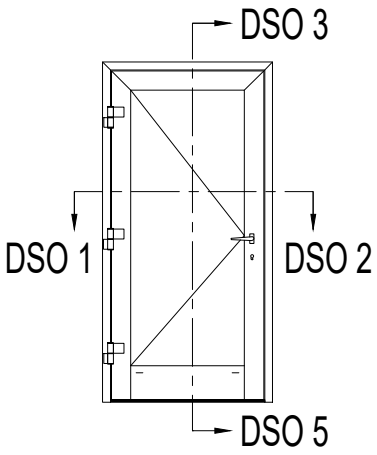
schaal - échelle
scale - Maßstab
1/2

D2000063

E

ES 45Pa

DEUR BUITENDR. MET DUBBELE AANSLAGDICHTING
PORTE DOUBLE JOINT DE BUTEE OUVR. VERS L'EXT.
DOOR OUTWARD OPENING WITH DOUBLE WEATHER STRIP
TUER NACH AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHTUNG



			#	Lm	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0412.XX			1	B - 60	02D.C....
			2	H - 37	
010.0114.XX			1	B - 206	02D.C....
002.0609.XX			1	B - 206	02D.C....
010.0126.XX			1	B - 70	02D.C....
030.3704.XX			2	B - 206	02D.C....
			2	H - 228	

b = B - 218
h = H - 200

E

schaal - échelle
scale - Maßstab
1/2

D2000064

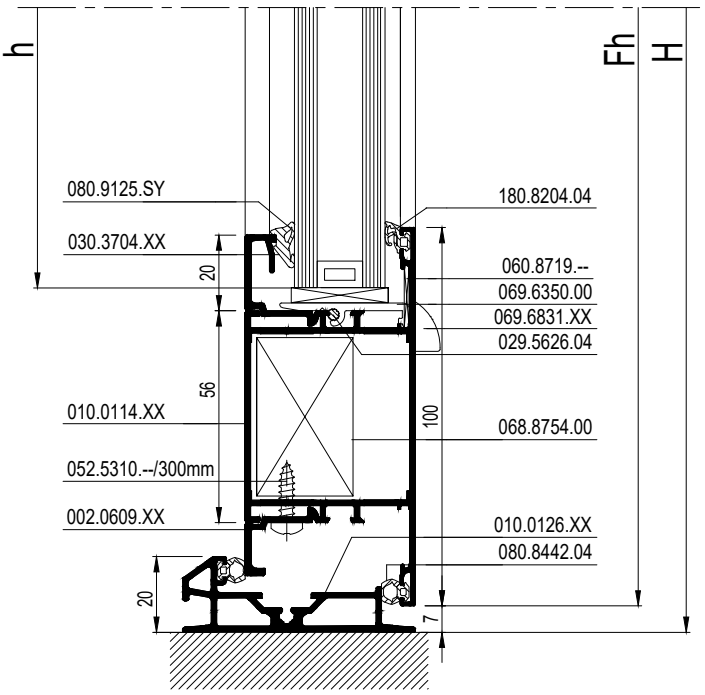
ES 45Pa

DEUR BUITENDR. MET DUBBELE AANSLAGDICHTING
PORTE DOUBLE JOINT DE BUTEE OUVR. VERS L'EXT.
DOOR OUTWARD OPENING WITH DOUBLE WEATHER STRIP
TUER NACH AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHTUNG

		#	
021.0250.00		2	02D.G....
068.8280.00		2	02D.G....
060.8719.--		6	02D.G....
068.8754.00		2	02D.G....
052.5310.--		1/300mm	02D.G....
052.5314.--		2	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
080.8442.04		(4xB)+(4xH)	02D.G....
180.8204.04		(2b+2h)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"



DSO 5

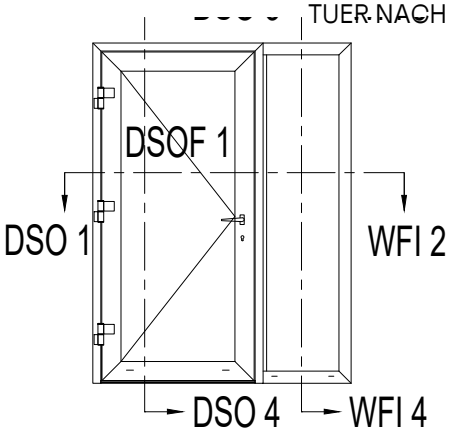
schaal - échelle
scale - Maßstab
1/2

D2000064

E

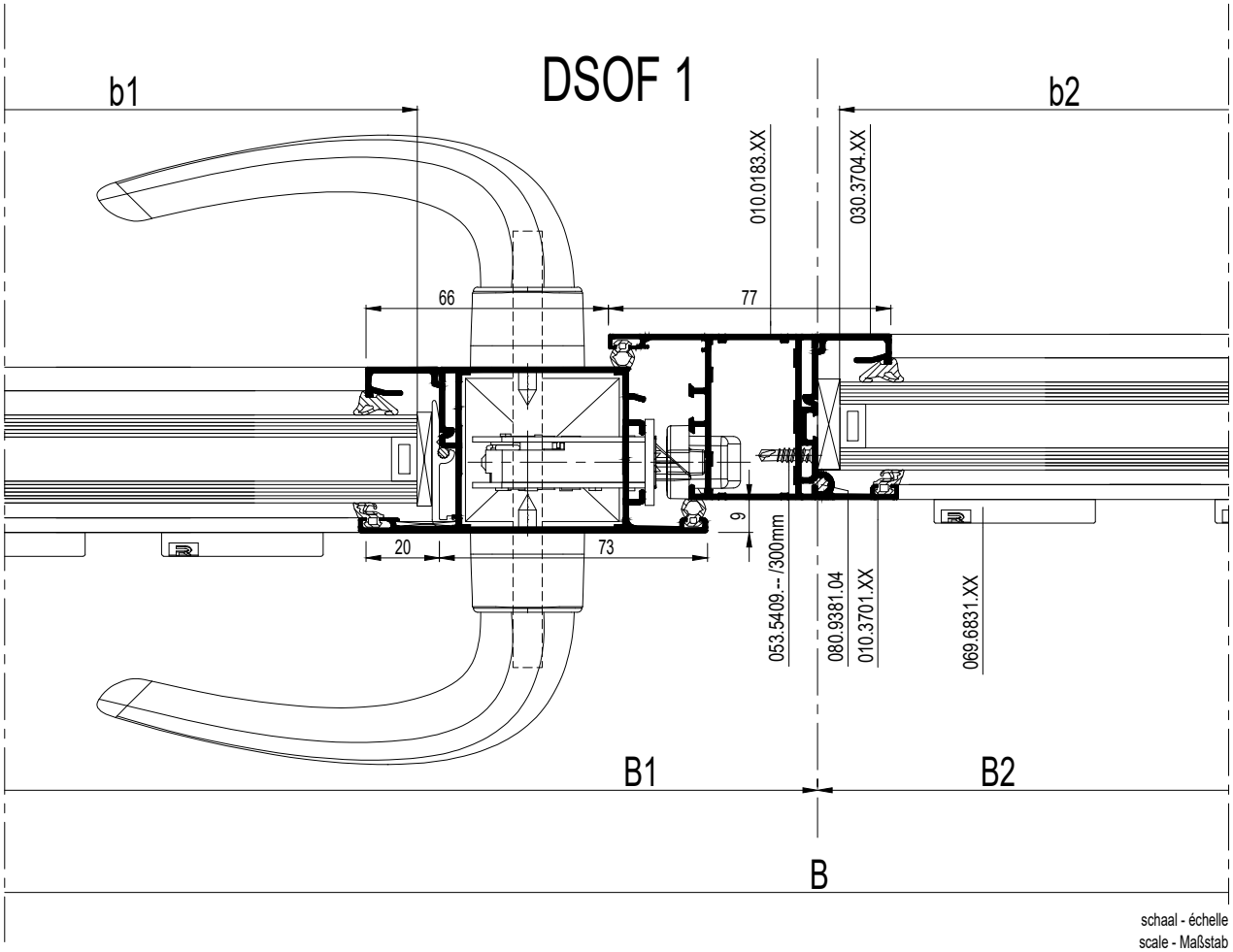
ES 45Pa

DEUR BUITENDRAAIEND MET KOPPELPROFIEL
PORTE OUVR. VERS L'EXT. AVEC PROFILE DE RACCORDEMENT
DOOR OUTWARD OPENING WITH CONNECTION PROFILE
TUER NACH AUSSEN OEFFN. MIT KUPPLUNGSPROFIL



			#	Lm	
010.0183.XX			1	B1	02D.C....
			1	H	
			1	H	
010.0183.XX			1	H	02D.C....
			1	B2 + 4.5	
			1	B2 + 4.5	
010.0412.XX			2	B - 60	02D.C....
			2	H - 37	
010.0030.XX			1	B - 102	02D.C....
001.0071.XX			1	B - 70	02D.C....
030.3704.XX			2	B1 - 206	02D.C....
			2	H - 223	
030.3704.XX			2	B2 - 35	02D.C....
			2	H - 110	
010.3701.XX			1	H - 70	02D.C....

b1 = B1 - 218
h1 = H - 195
b2 = B2 - 47
h2 = H - 82



schaal - échelle
scale - Maßstab
1/2

D0091926

E

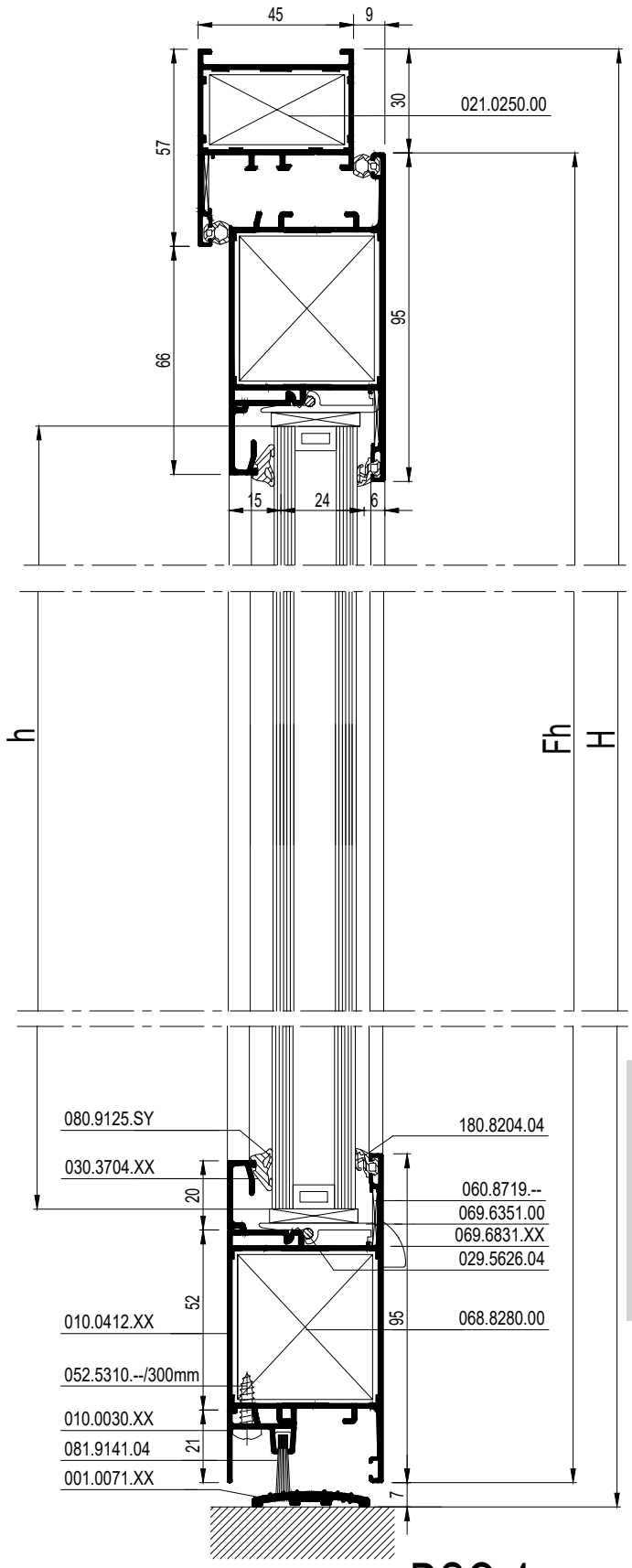
ES 45Pa

DEUR BUITENDRAAIEND MET KOPPELPROFIEL
PORTE OUVR. VERS L'EXT. AVEC PROFILE DE RACCORDEMENT
DOOR OUTWARD OPENING WITH CONNECTION PROFILE
TUER NACH AUSSEN OEFFN. MIT KUPPLUNGSPROFIL

		#	☞
021.0250.00		4	02D.G....
068.8280.00		4	02D.G....
060.8719.--		8	02D.G....
021.0242.00		2	02D.G....
052.5310.--		1/300mm	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		4x100mm	02D.G....
180.8204.04		(2xb1) + (2xh1)	02D.G....
		(2xb2) + (2xh2)	
080.8442.04		(2xB1)+(6xH)	02D.G....
080.9125.SY		(2xb) + (2xh)	02D.G....
080.9381.04		H-60mm	02D.G....
052.5409.--		1/300mm	02D.G....

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"



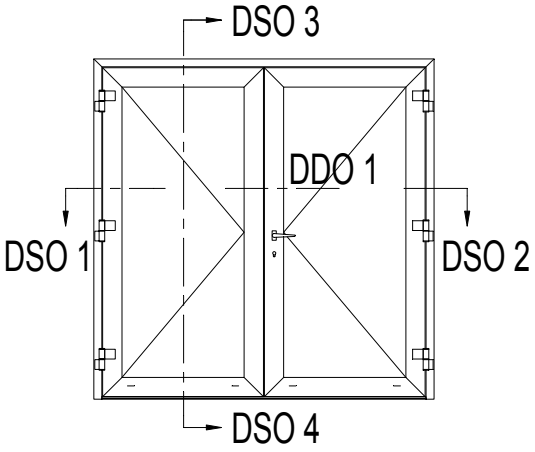
DSO 4

schaal - échelle
scale - Maßstab
1/2

E

ES 45Pa

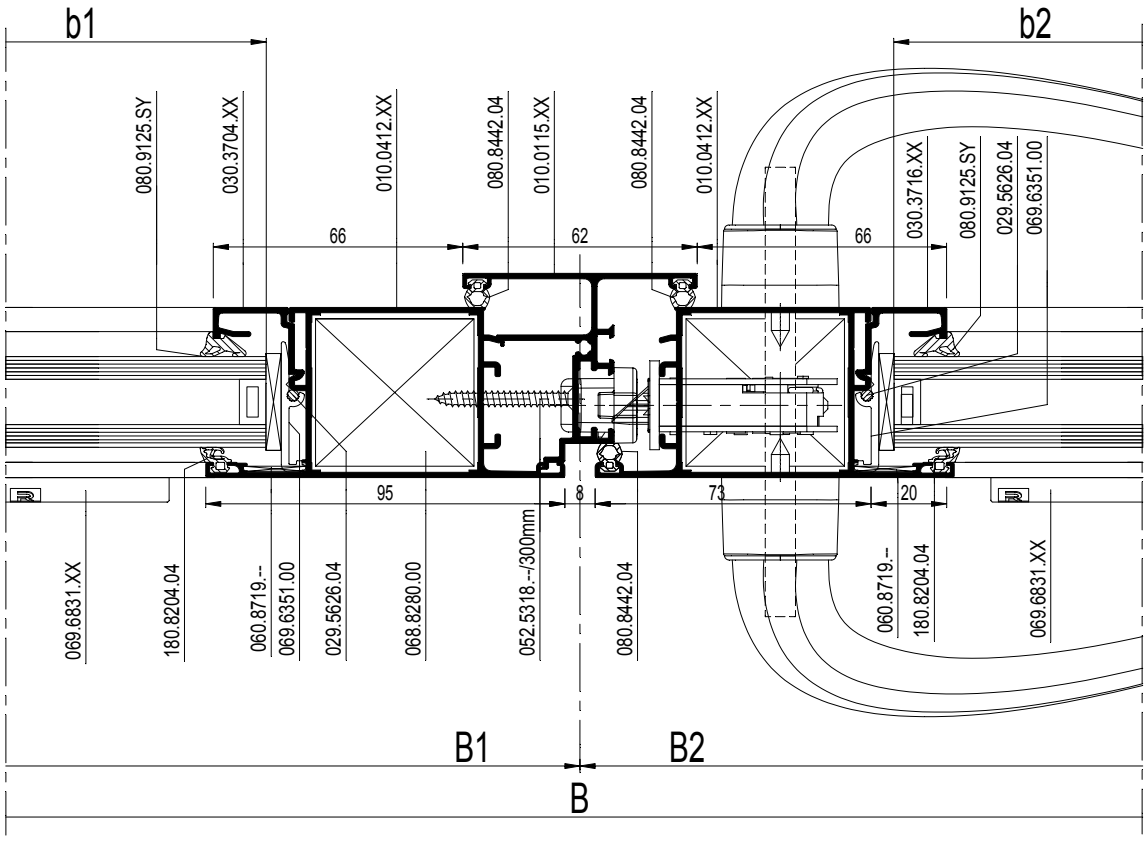
STOLPDEUR BUITENDRAAIEND 'BORSTELAFSLUITING'
PORTE DOUBLE OUVRANT VERS L'EXTERIEUR 'JOINT-BROSSE'
DOUBLE CASEMENT DOOR OUTWARD OPENING 'BRUSH'
STULPFLUEGELTUER NACH AUSS.OEFFNEND 'BUERSTENDICHTUNG'



			#	L_m	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0412.XX			2	B - 34	02D.C....
			2	H - 37	
010.0115.XX			1	Fh-7	02D.C....
010.0030.XX			1	B1 - 76	02D.C....
			1	B2 - 76	
001.0071.XX			1	B - 70	02D.C....
030.3704.XX			2	B - 180	02D.C....
			2	H - 223	

b1 = B1 - 192
h = H - 195
b2 = B2 - 192

DDO 1



schaal - échelle
scale - Maßstab
1/2

D2000065

E

ES 45Pa

STOLPDEUR BUITENDRAAIEND 'BORSTELAFSLUITING'
PORTE DOUBLE OUVRANT VERS L'EXTERIEUR 'JOINT-BROSSE'
DOUBLE CASEMENT DOOR OUTWARD OPENING 'BRUSH'
STULPFLUEGELTUER NACH AUSS.OEFFNEND 'BUERSTENDICHTUNG'

Reynaers Aluminium

		#	☞
021.0250.00		2	02D.G....
068.8280.00		8	02D.G....
060.8719.--		10	02D.G....
052.5318.--		1/300mm	02D.G....
052.5310.--		1/300mm	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		8x100mm	02D.G....
080.8442.04		(2xB1)+(2xB2)	02D.G....
		(7xH)	
180.8204.04		(2xb1)+(2xb2)	02D.G....
		(4xh)	
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(4xh)	

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"

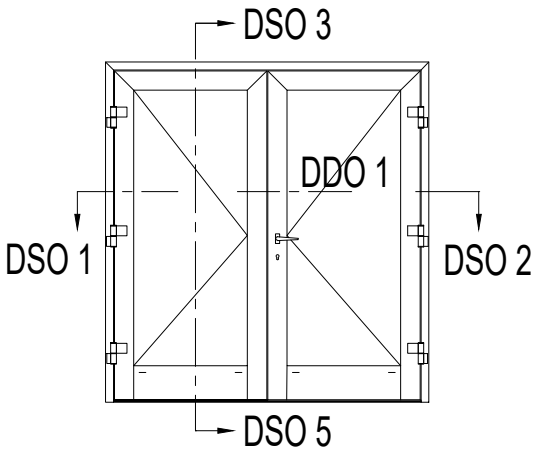
E

schaal - échelle
scale - Maßstab
1/2

D2000065

ES 45Pa

STOLPDEUR BUITENDR. MET DUBBELE AANSLAGDICHT.
PORTE DOUB. AVEC DOUB. JOINT DE BUTEE OUVR. V. L'EXT.
DOUBLE CASEM. D. OUTW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHT.



			#	Lm	
010.0183.XX			1	B	02D.C....
			1	H	
			1	H	
010.0412.XX			2	B1-34	02D.C....
			2	B2-34	
			2	H-37	
			2	H-37	
010.0114.XX			1	B1-180	02D.C....
			1	B2-180	
010.0115.XX			1	Fh-14	02D.C....
002.0609.XX			1	B1 - 180	02D.C....
			1	B2 - 180	
010.0126.XX			1	B - 70	02D.C....
030.3704.XX			2	B1 - 180	02D.C....
			2	B2 - 180	
			4	H - 228	

b1 = B1 - 192
h = H - 200
b2 = B2 - 192

E

schaal - échelle
scale - Maßstab
1/2

D2000066

ES 45Pa

STOLPDEUR BUITENDR. MET DUBBELE AANSLAGDICHT.
PORTE DOUB. AVEC DOUB. JOINT DE BUTEE OUVR. V. L'EXT.
DOUBLE CASEM. D. OUTW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHT.

		#	☞
021.0250.00		2	02D.G....
068.8280.00		4	02D.G....
060.8719.--		10	02D.G....
068.8754.00		4	02D.G....
052.5310.--		1/300mm	02D.G....
052.5314.--		2	02D.G....
052.5318.--		1/300mm	02D.G....
081.9141.04		B - 70	02D.G....
069.6351.00		02D.F....	02D.G....
069.6831.XX		02D.F....	02D.G....
029.5626.04		8x100mm	02D.G....
080.8442.04		(4xB1)+(4xB2)	02D.G....
		(7xH)	
180.8204.04		(2xb1)+(2xb2)	02D.G....
		(4xh)	
080.9125.SY		(2xb1) + (2xb2)	02D.G....
		(4xh)	

DEURBESLAG > ZIE "OVERZICHT DEUREN"
ACCESSOIRES PORTES> VOIRE "APERCU PORTES"
DOOR GEAR > SEE "OVERVIEW DOORS"
ZUBEHOR TUEREN > SIEHE "UEBERSICHT TUEREN"

DEURSCHARNIEREN> ZIE "DEURSCHARNIER 2-DELIG KLEMBAAR"
CHARNIERES PORTES> VOIRE "CHARNIERE PORTE 2-PARTIES A CLAMER"
DOOR HINGES> SEE "DOOR HINGE 2-PART CLAMPABLE"
TUERBÄNDER> SIEHE "TUERBAND 2-TEILIG KLEMMBAR"

E

schaal - échelle
scale - Maßstab
1/2

ES 45Pa

STOLPDEUR BUITENDR. MET DUBBELE AANSLAGDICHT.
PORTE DOUB. AVEC DOUB. JOINT DE BUTEE OUVR. V. L'EXT.
DOUBLE CASEM. D. OUTW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHT.

Reynaers Aluminium

E

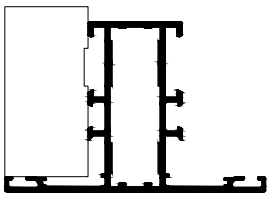
F

Reynaers Aluminium

Montagetekeningen
Fabrication et montage
Assembly drawings
Montagezeichnungen

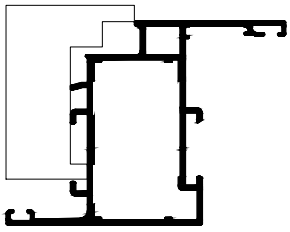
D2000067

097.0637.00



010.0113.XX
010.0114.XX
010.0120.XX
010.0813.XX

097.0383.00



010.0102.XX
010.0192.XX
010.0112.XX
010.0412.XX
010.0492.XX

BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !

INFORMAZIONI ADDIZIONALI -> CONSULTARE CAPITOLO B!

				010.0136.XX 010.0183.XX 010.0140.XX 010.0102.XX 010.0192.XX 010.0112.XX	010.0113.XX 010.0120.XX 010.0114.XX 010.0813.XX
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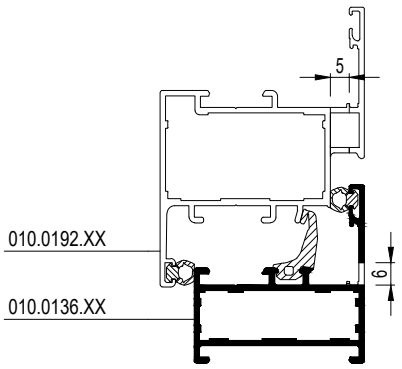
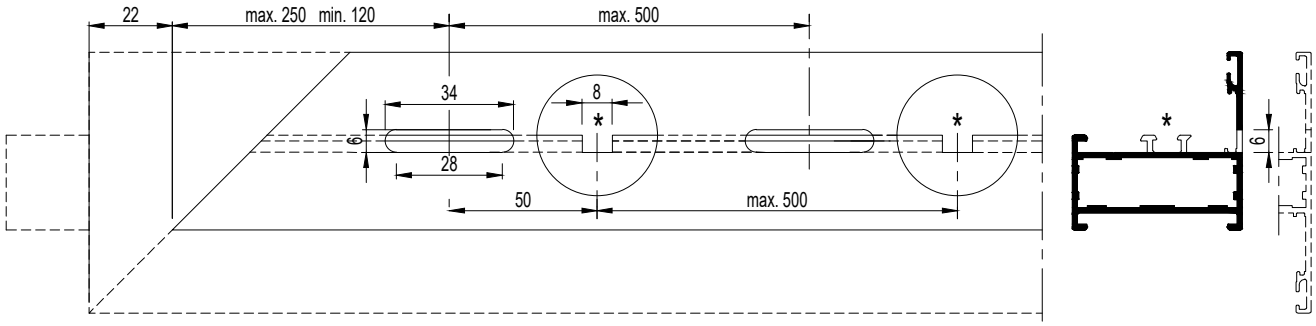
	---		---		
			097.0078.00		
			095.E000.00/095.E012.00 095.C300.00		



* enkel bij vast raam
* seulement pour fenêtre fixe
* only for fixed window
* nur bei festverglasung

095.E000.00/095.E012.00
095.C300.00



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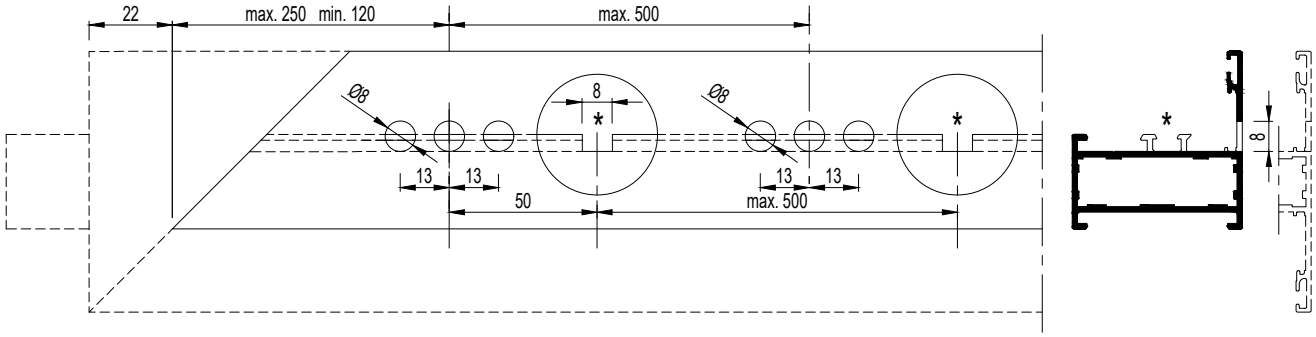

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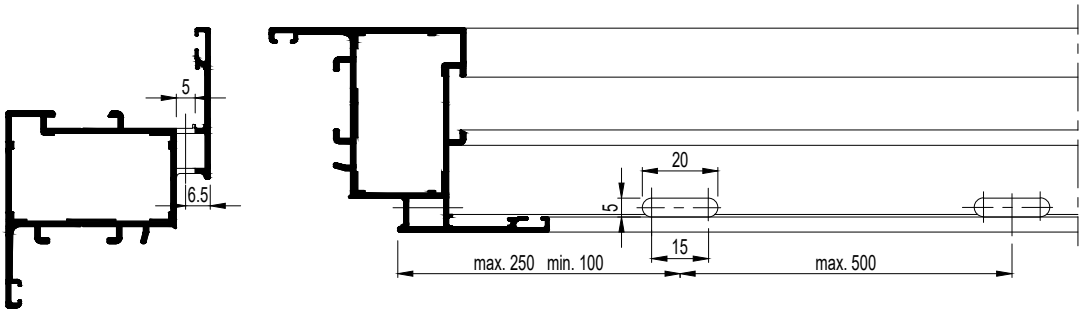

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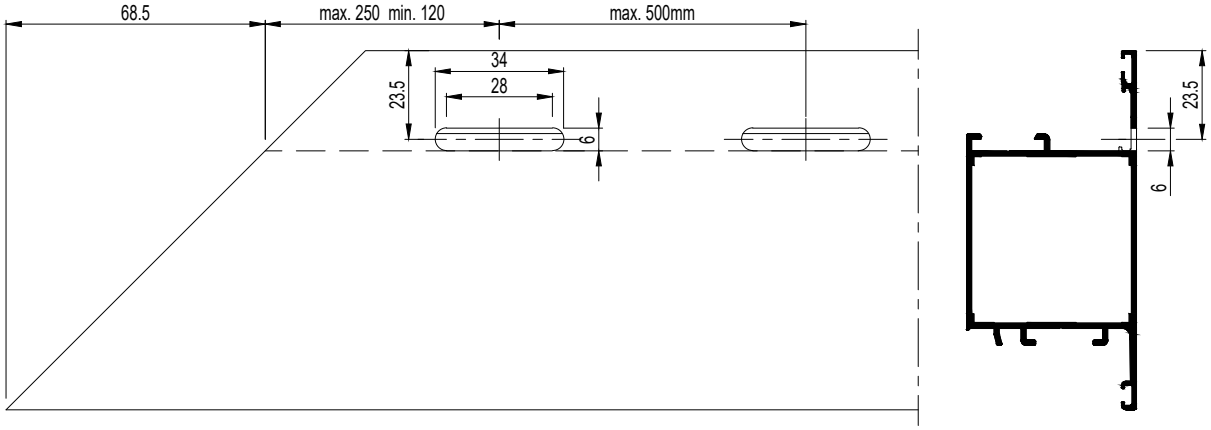

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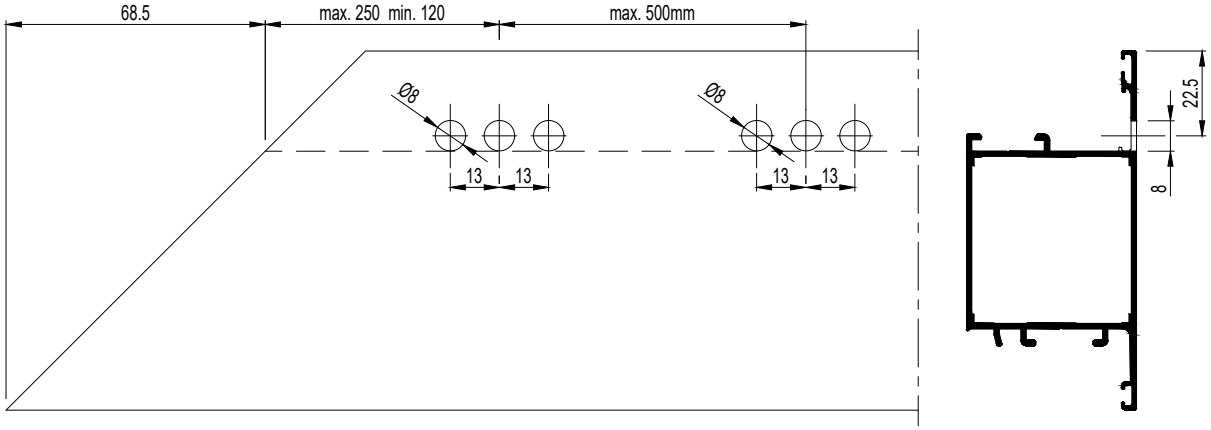

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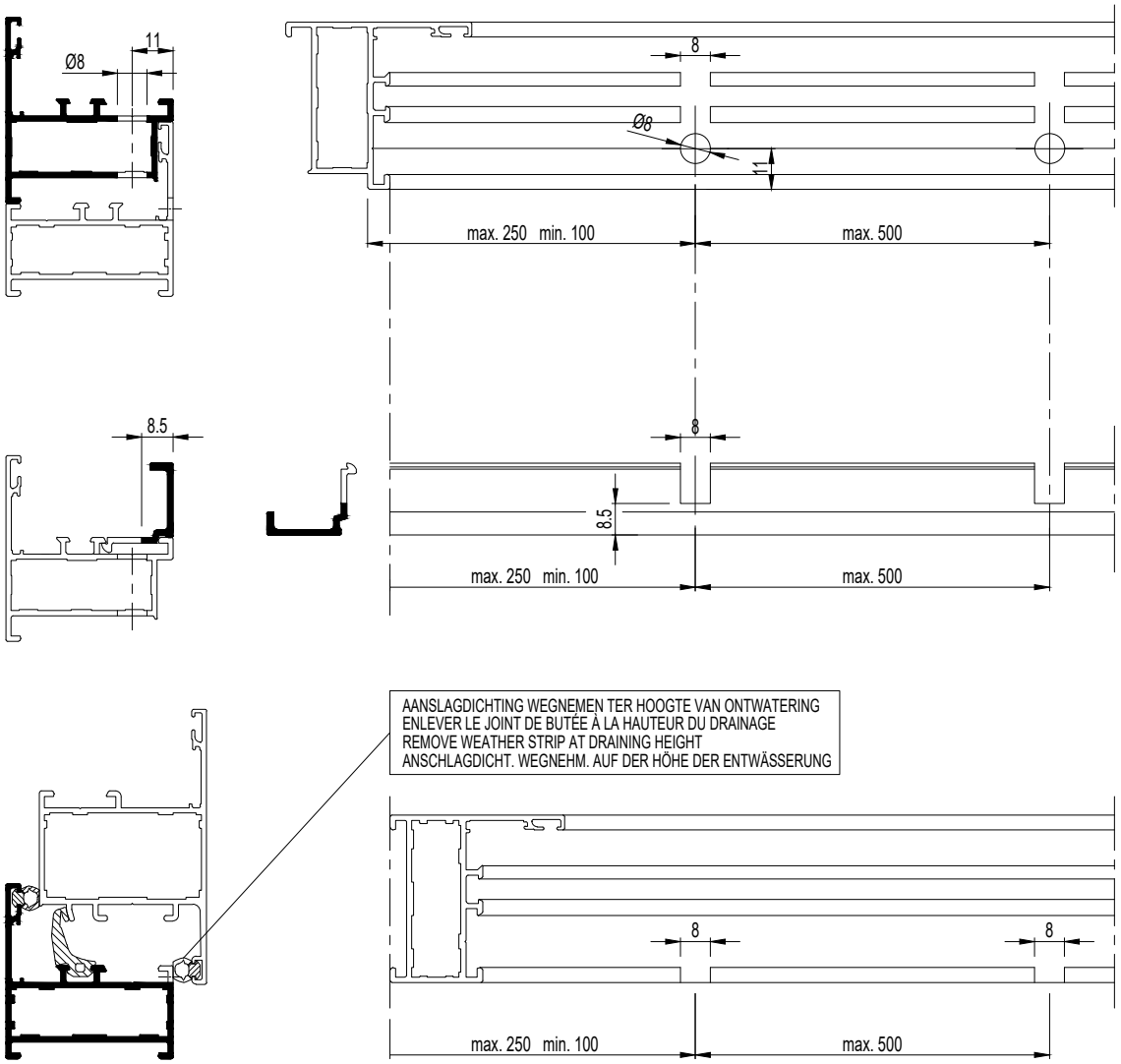

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D2000070

Ontwatering

VOLGORDE
1. Correct ponsen, boren of frezen
2. Ontbramen (Indien noodzakelijk)
3. Stof en zaagresten verwijderen
4. Ontvetten met Reynafinish 60, art. nr. 086.9210.--
5. Reynaprotector aanbrengen, art. nr. 086.9207.SY + 086.9225.--

Drainage

ORDRE
1. Poinçonnage, forage ou fraisage correct
2. Ebavurage (si nécessaire)
3. Enlèvement des poussières et des copeaux
4. Dégraissage avec Reynafinish 60, art. nr. 086.9210.--
5. Application de Reynaprotector, art. nr. 086.9207.SY + 086.9225.--

Entwässerung

REIHENFOLGE
1. Stanzen, bohren oder fräsen
2. Entgraten (falls erforderlich)
3. Staub und Sägereste entfernen
4. Entfetten mit Reynafinish 60, art. nr. 086.9210.--
5. Reynaprotector aufbringen, art. nr. 086.9207.SY + 086.9225.--

Drainage

SEQUENCE
1. Correct punching, drilling or milling
2. Deburring (if necessary)
3. Removing dust and saw-dust
4. Degreasing with Reynafinish 60, art.nr. 086.9210.--
5. Applying Reynaprotector, art. nr. 086.9207.SY + 086.9225.--

Drenaje

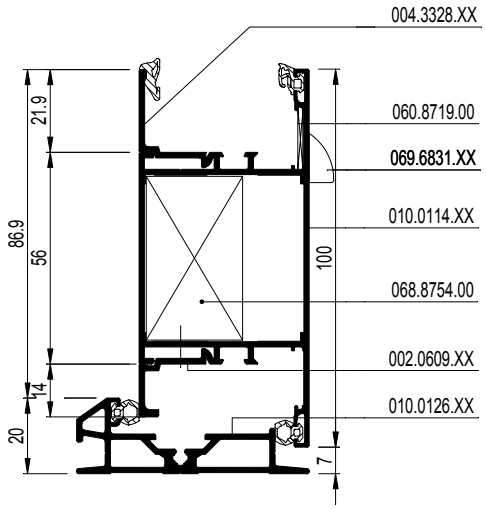
SECUENCIA
1. Correcto mecanizado, taladrado o fresado
2. Quitar la rebaba (si es necesario)
3. Quitar la suciedad y virutas del corte
4. Desengrasar con el Reynafinish 60, ref. nr. 086.9210.--
5. Aplicar Reynaprotector, ref. nr. 086.9207.SY + 086.9225.--

Drenaz

KOLEJNOSC CZYNNOSCI
1. Prawidlowe wykrawanie, wiercenie lub frezowanie
2. Usuniecie zadziorow (w razie potrzeby)
3. Usunięcie zabrudzen i opilkow
4. Odtluszczenie srodkiem Reynafinish 60 art. nr. 086.9210.--
5. Nałożenie Reynaprotector art. nr. 086.9207.SY + 086.9225.--

Drenaggio

SEQUENZA
1. Foratura, fresatura o puzonatura corretta
2. Sbavatura (se necessario)
3. Rimuovere polvere e residui del taglio
4. Sgrassare con Reynafinish 60, art. nr. 086.9210.--
5. Applicare Reynaprotector, art. nr. 086.9207.SY + 086.9225.--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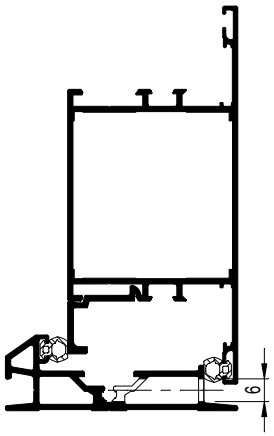
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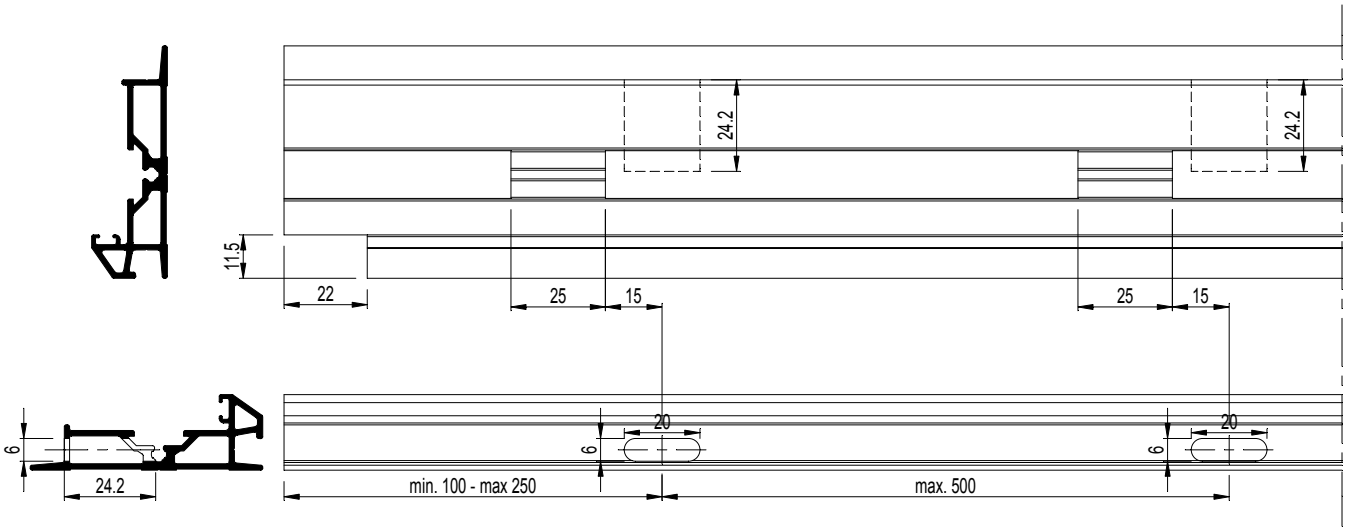
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min. 100 - max 250
max. 500

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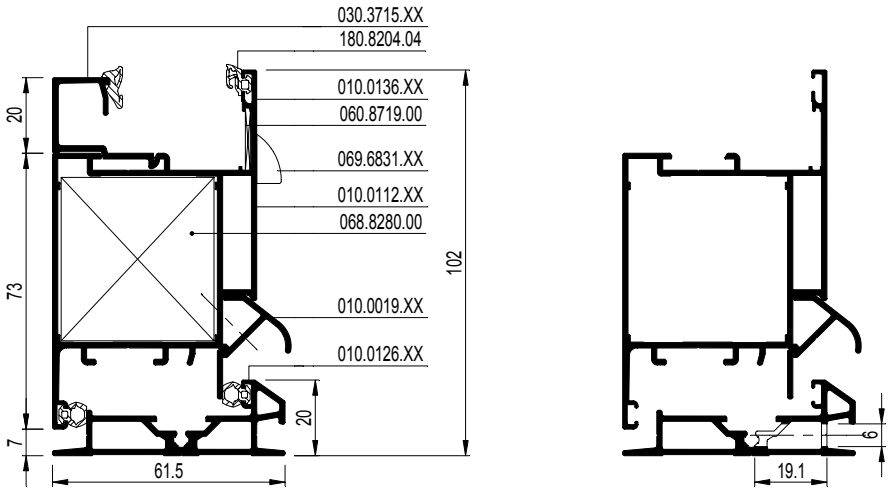
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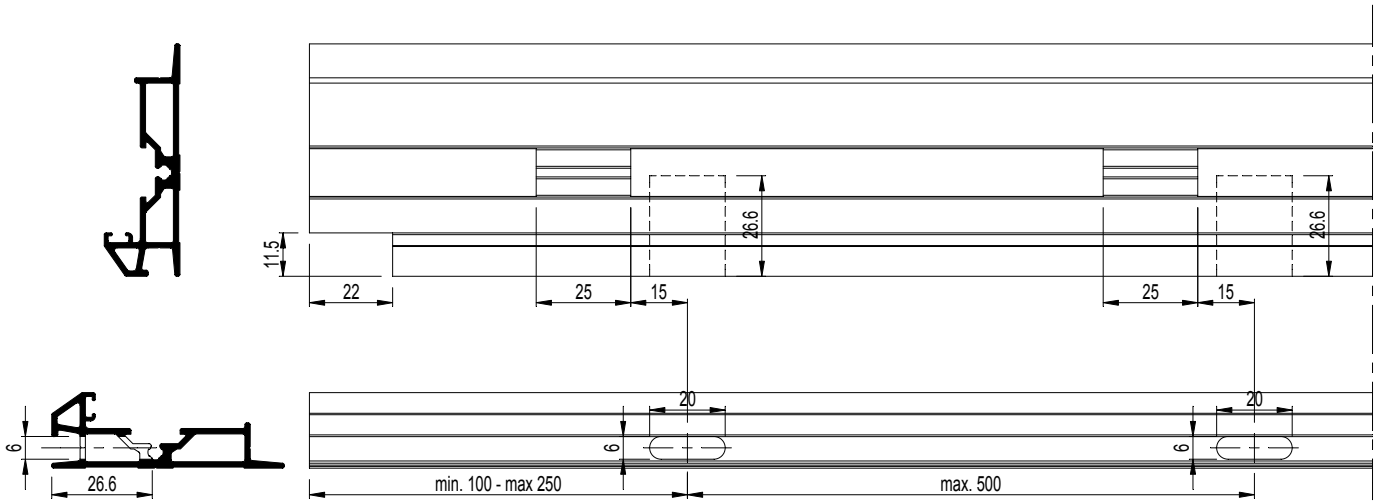
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26.6
min. 100 - max 250
max. 500

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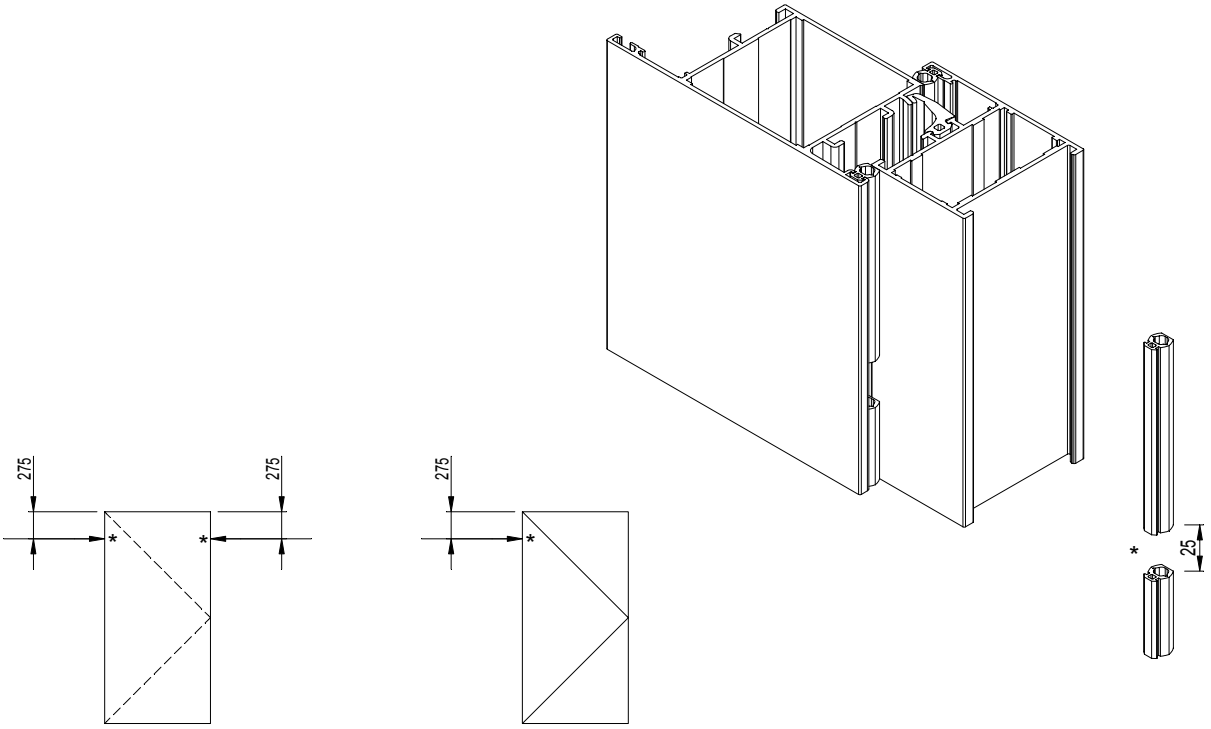
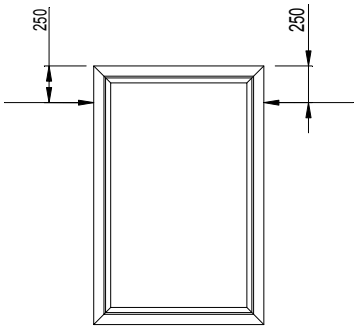
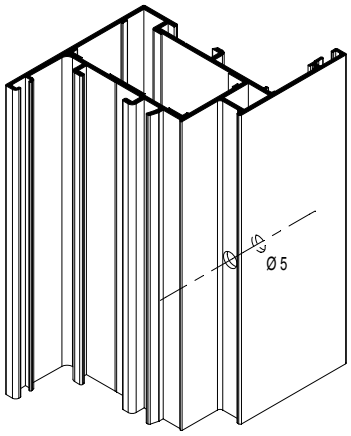
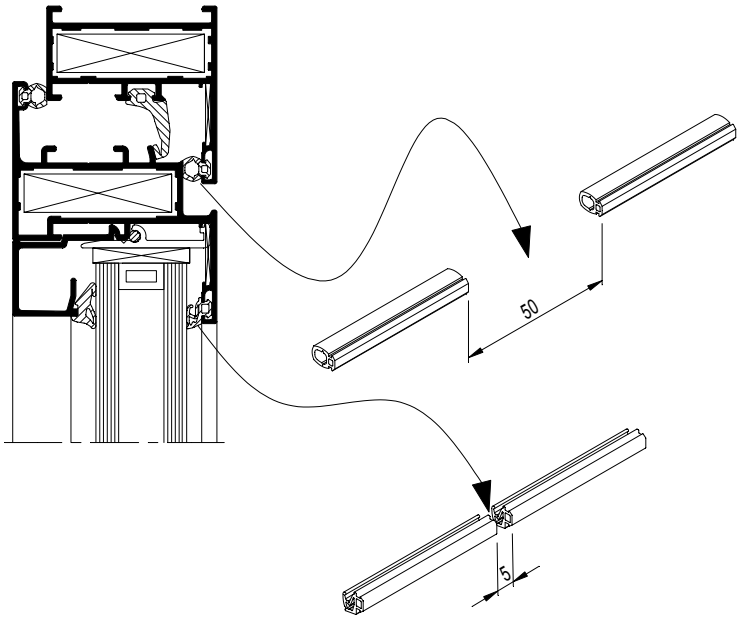
DECOMPRESSIE IN DE DEUR
DECOMPRESSION DANS LA PORTE
DECOMPRESSION IN THE DOOR
DEKOMPRESSION IN DER TUR



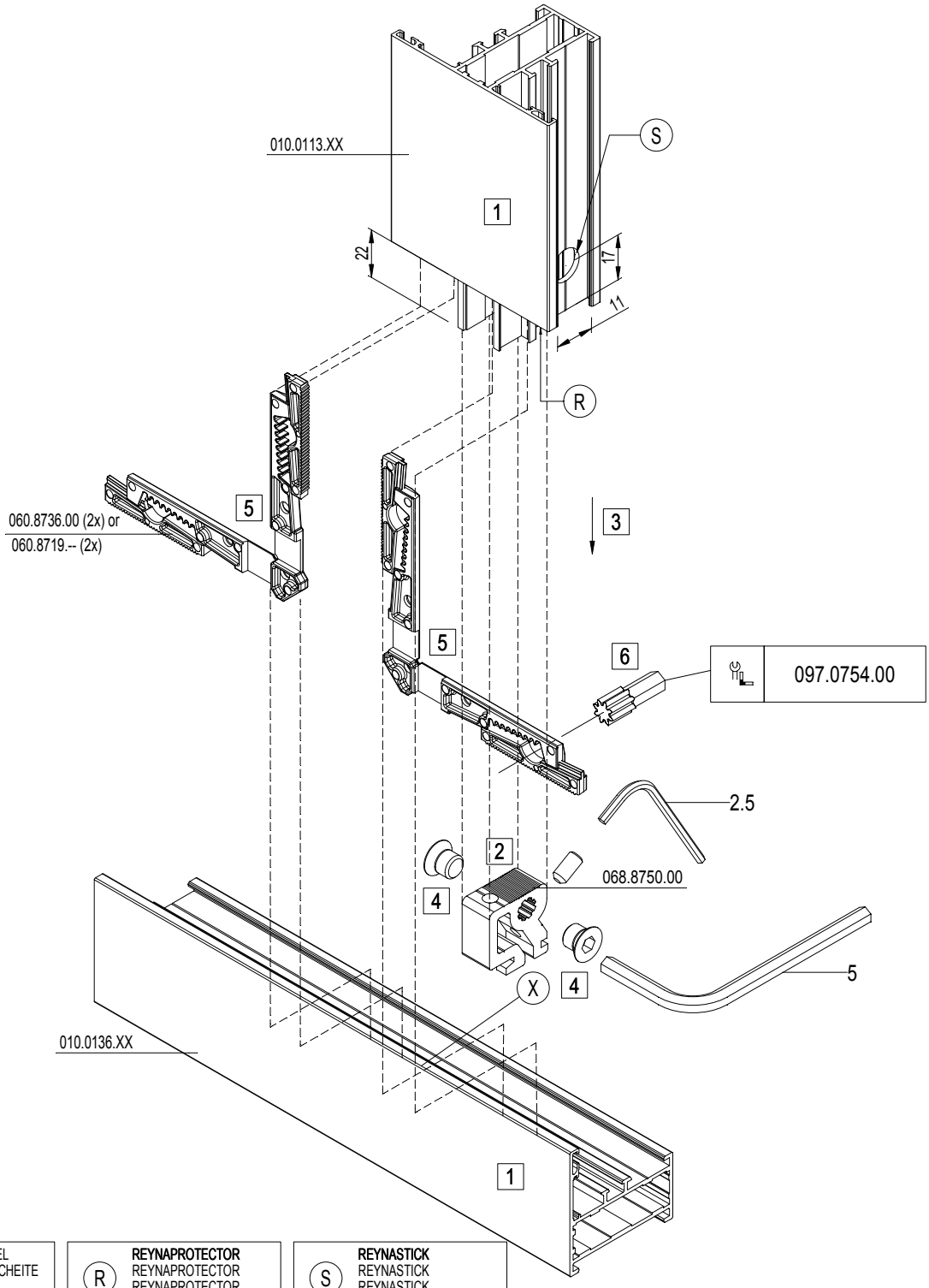
DECOMPRESSIE Ø5 IN DE VLEUGEL
DECOMPRESSION Ø5 DANS L' OUVRANT
DECOMPRESSION Ø5 IN THE VENT
DEKOMPRESSION Ø5 IM FLÜGEL







BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !



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KOLEJNOSC MONTAZU
ORDINE DI ASSEMBLAGGIO
1 2 3 .

BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !
INFORMACION ADICIONAL PREPARACIÓN/PROCESO -> CONSULTAR CAPÍTULO B
DODATKOWE INFORMACJE DOTYCZACE WYKONAWSTWA -> PATRZ ROZDZIAL B
INFORMAZIONI ADDIZIONALI -> CONSULTARE CAPITOLO B!

D2000072

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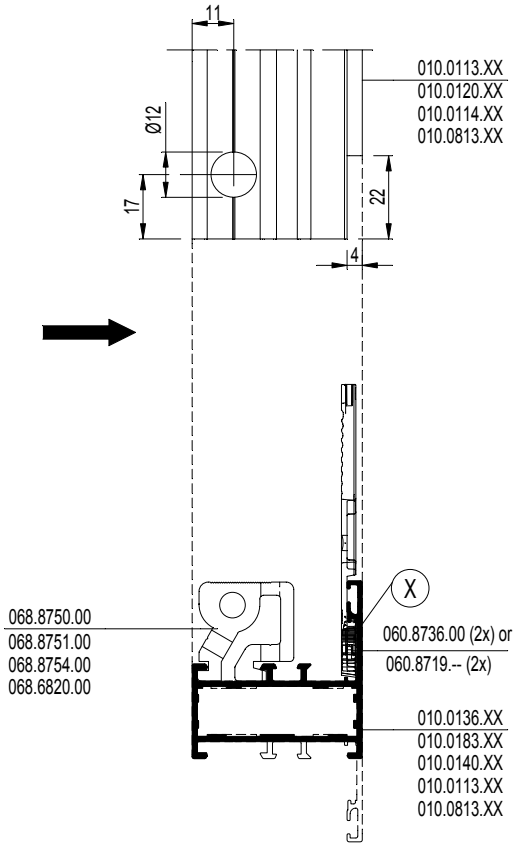
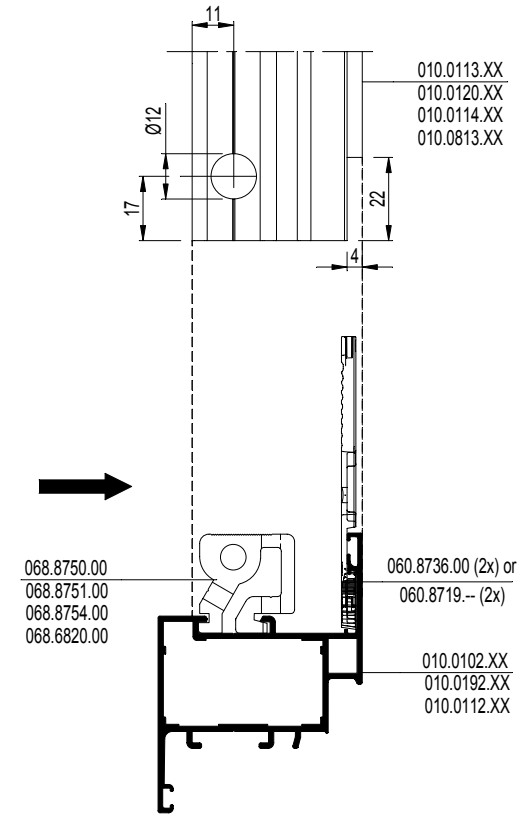
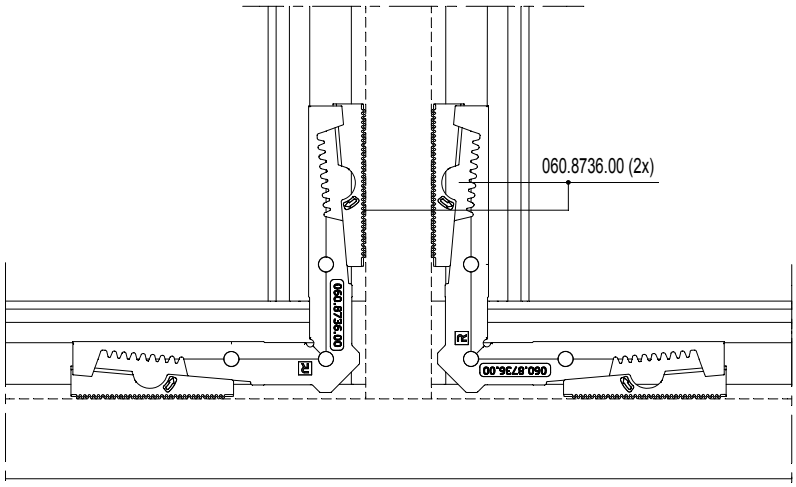
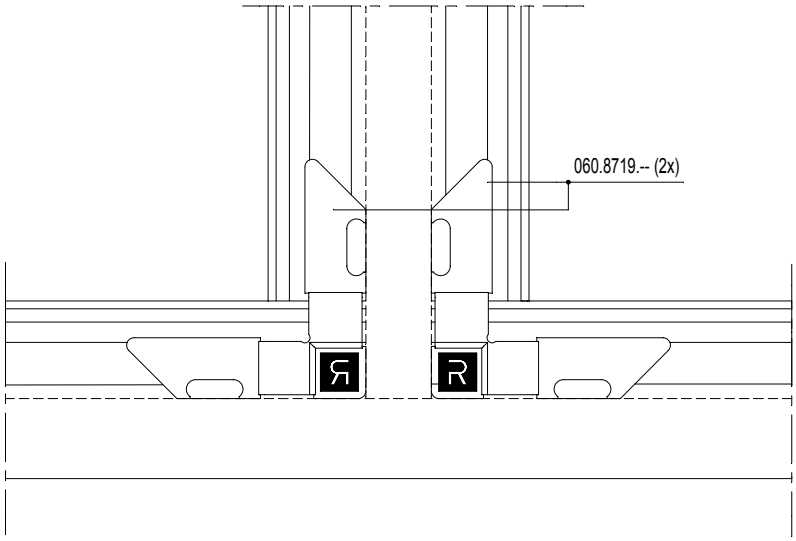
ES 45Pa

T-VERBINDING
RACCORDEMENT-T
T-CONNECTION
T-VERBINDUNG









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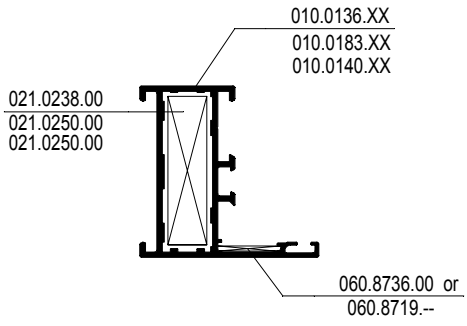
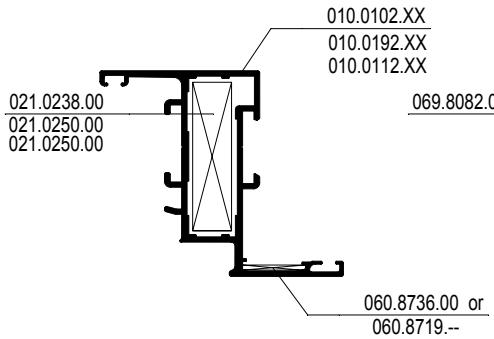
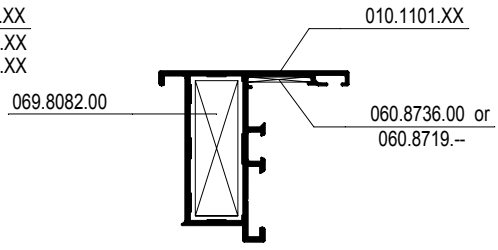
D2000072

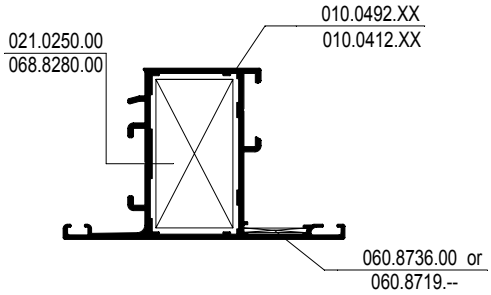
ES 45Pa

HOEKVERBINDING PERSHOEK
ASSEMBLAGE ANGULAIRE EQUERRE A SERTIR
CORNER CONNECTION CRIMP CORNER CLEAT
ECKVERBINDUNG PRESSECKWINKEL









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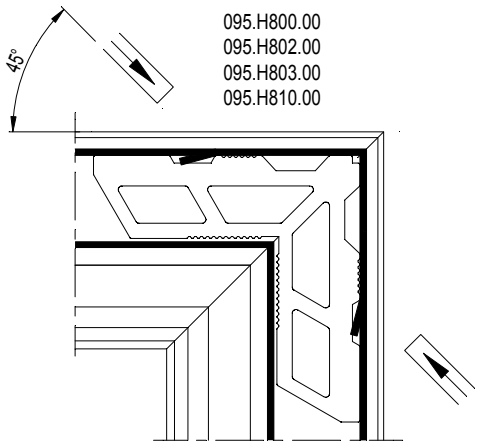
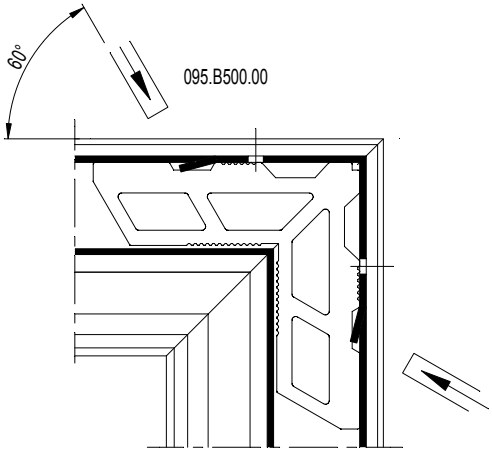
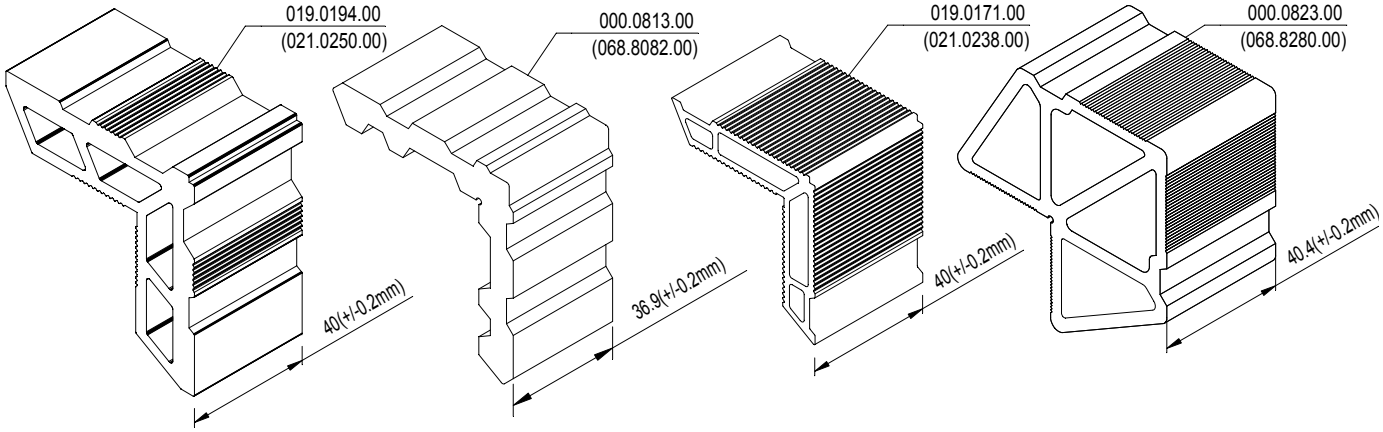






BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !

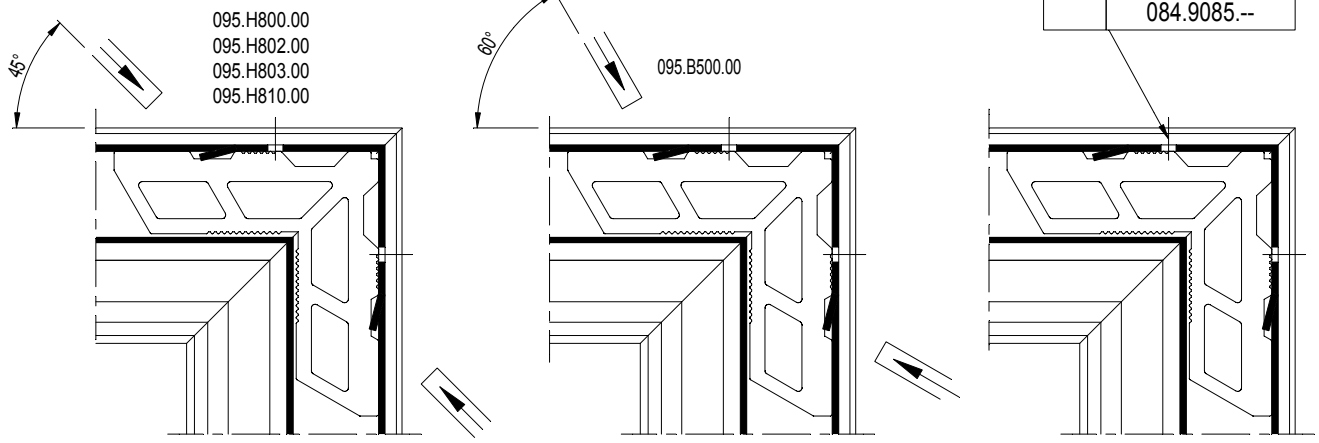
D2000073

F

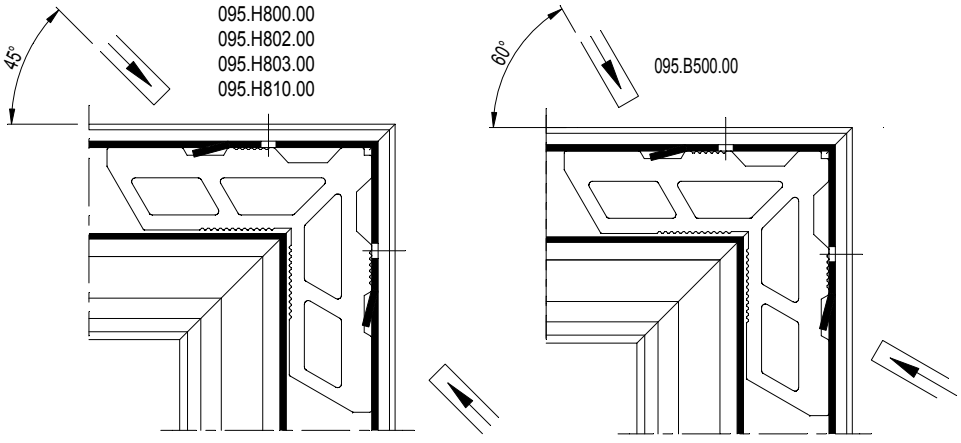
HOEKVERBINDING PERSHOEK
ASSEMBLAGE ANGULAIRE EQUERRE A SERTIR
CORNER CONNECTION CRIMP CORNER CLEAT
ECKVERBINDUNG PRESSECKWINKEL

OPTIE A : LIJMINJECTIE NA HET PERSEN
OPTION A : INJECTION DE COLLE APRES LE SERTISSAGE
OPTION A : GLUE INJECTION AFTER CRIMPING
OPTION A : KLEBEINJECTION NACH DEM PRESSEN

GLUE	084.9080.--
CRIMP	095.E300.00 084.9085.--
	095.E400.00 084.9085.--



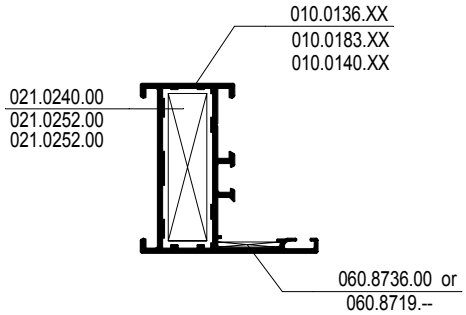
OPTIE B : LIJMINJECTIE VOOR HET PERSEN
OPTION B : INJECTION DE COLLE AVANT LE SERTISSAGE
OPTION B : GLUE INJECTION BEFORE CRIMPING
OPTION B : KLEBEINJECTION VOR DEM PRESSEN

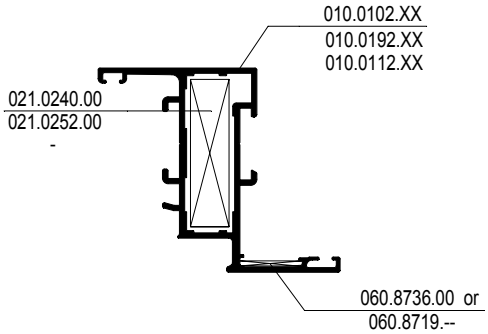


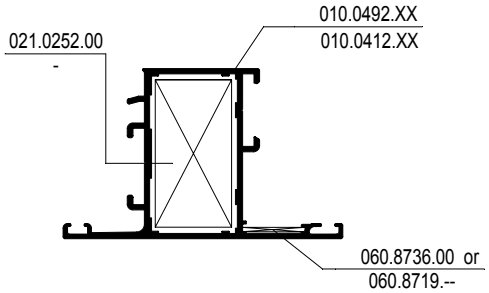
BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !

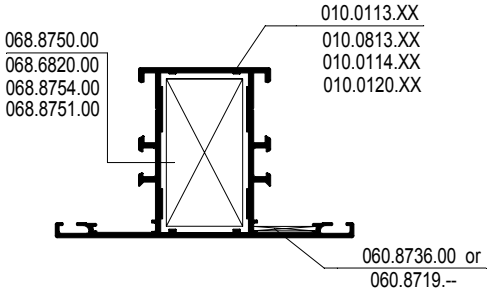
ES 45Pa

HOEKVERBINDING SCHROEFHOEK
ASSEMBLAGE ANGULAIRE EQUERRE A VISSER
CORNER CONNECTION SCREW CORNER CLEAT
ECKVERBINDUNG SCHRAUBECKWINKEL



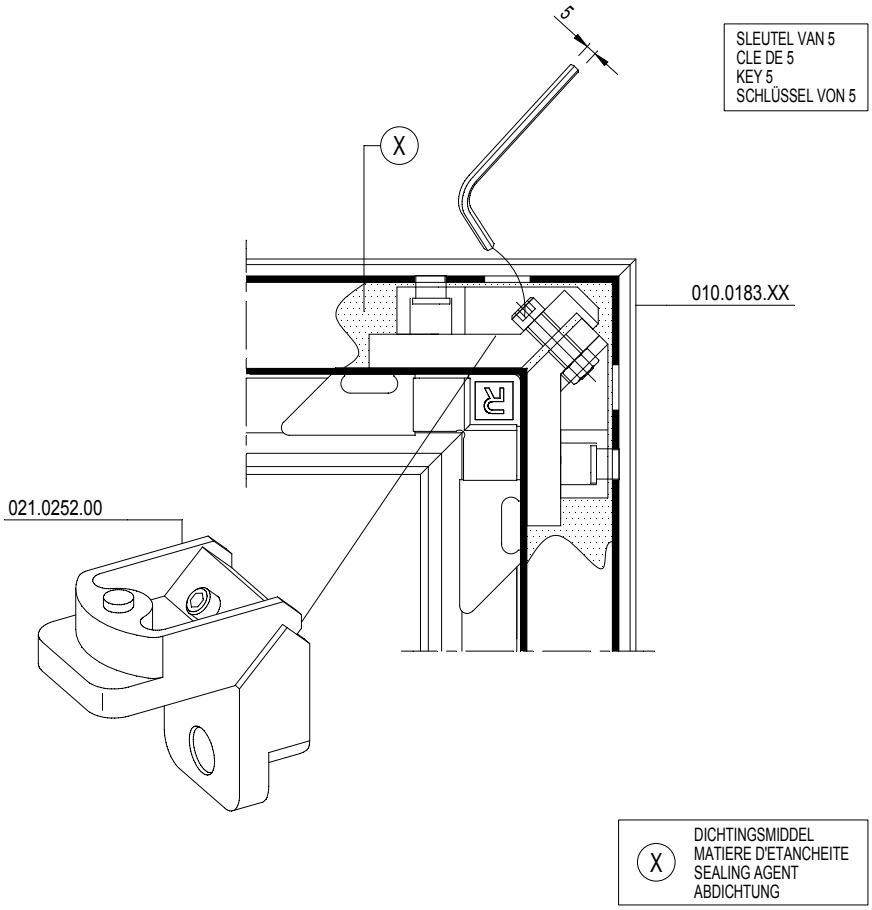






BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !

INFORMAZIONI ADDIZIONALI -> CONSULTARE CAPITOLO B!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SLEUTEL VAN 5
CLE DE 5
KEY 5
SCHLÜSSEL VON 5
X
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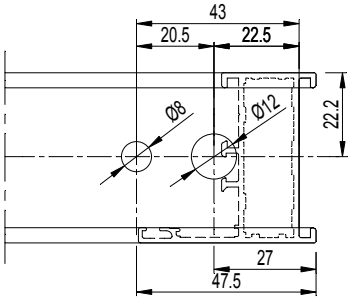
021.0252.00
X
DICHTINGSMIDDEL
MATIERE D'ETANCHEITE
SEALING AGENT
ABDICHTUNG

SCHROEFHOEK
EQUERRE A VISSER
SCREW CORNER CLEAT
SCHRAUBECKWINKEL

097.0076.00	010.0136.XX

021.0240.00



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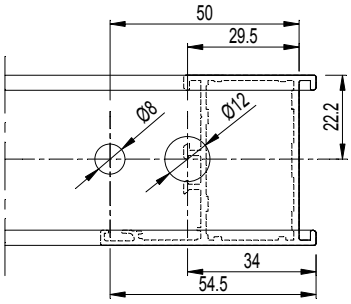

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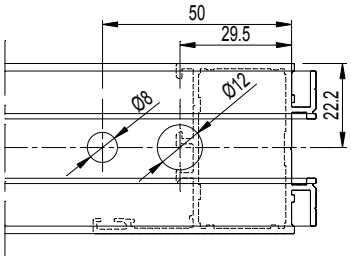
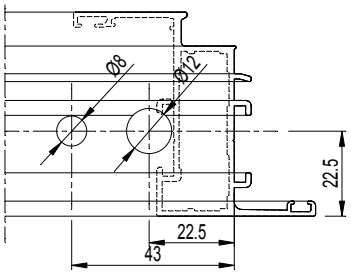


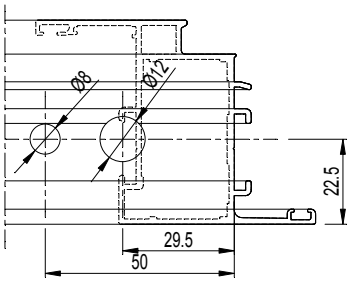
097.0080.00	010.0102.XX

021.0240.00



097.0080.00	010.0192.XX

021.0252.00



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D2000075

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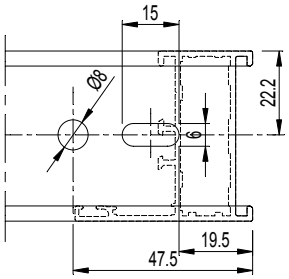
095.C300.00

010.0136.XX

021.0240.00



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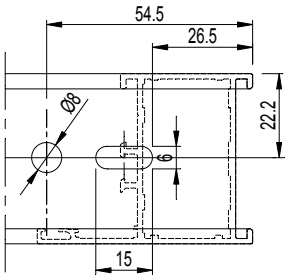
095.C300.00

010.0183.XX

021.0252.00



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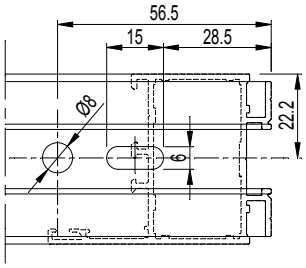
021.0252.00



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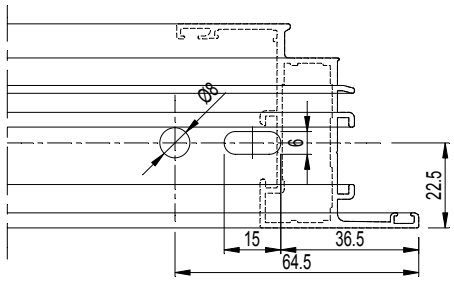

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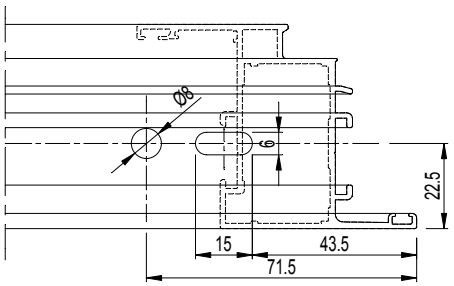

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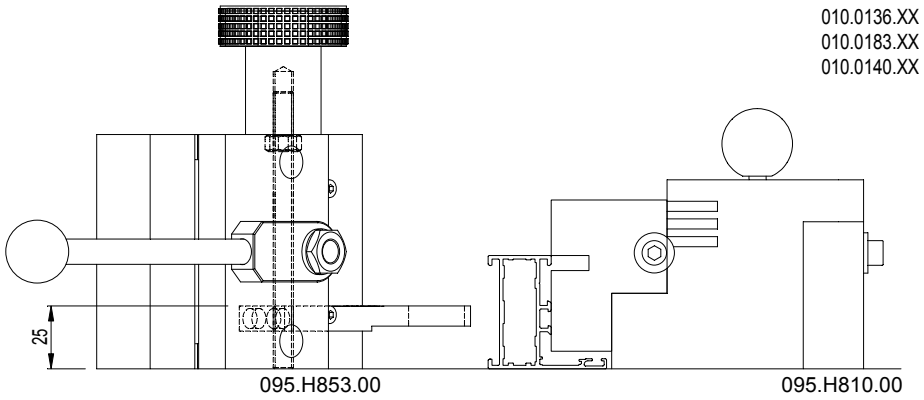

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010.0140.XX

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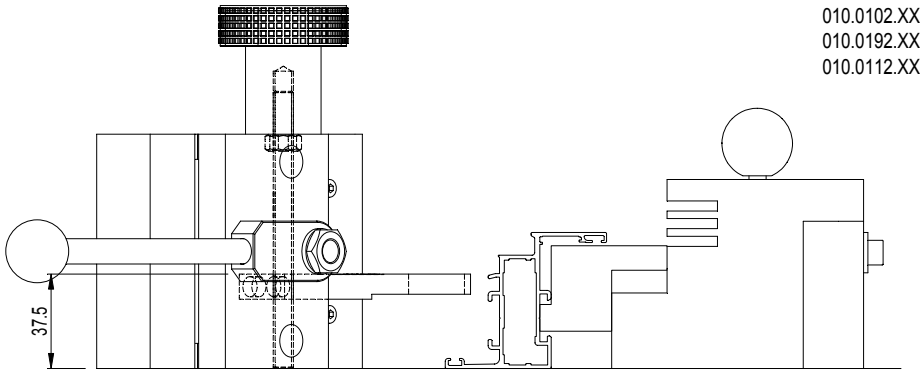
095.H810.00



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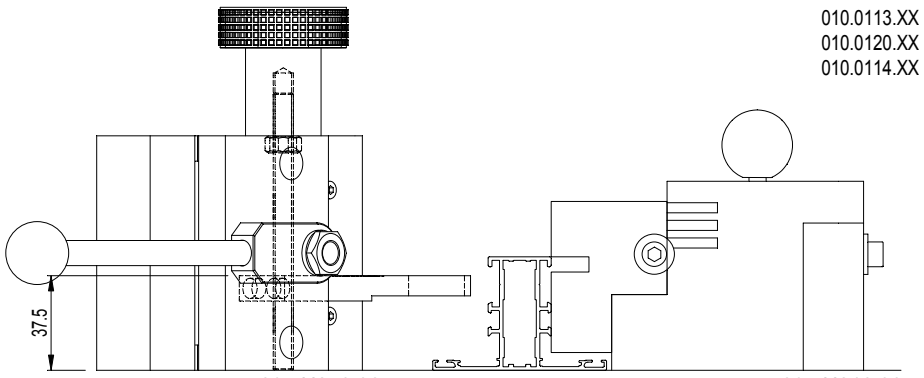


010.0113.XX
010.0120.XX
010.0114.XX

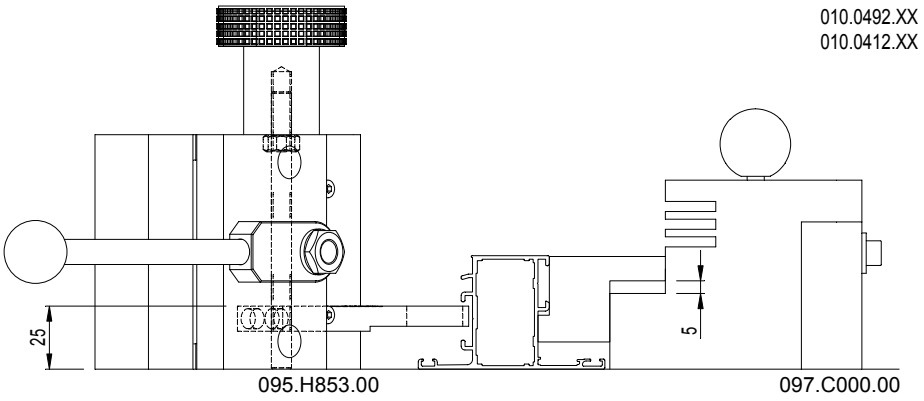
095.H853.00

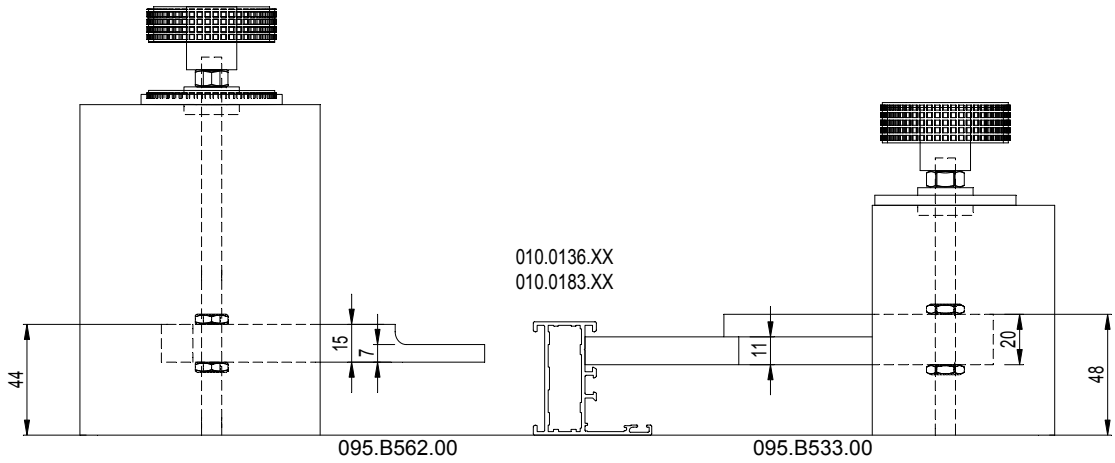
095.H810.00

F

D2000121

HOEKENPERS 095.H800.00
SERTISSEUSE 095.H800.00
CRIMPING MACHINE 095.H800.00
ECKVERBINDUNGSMASCHINE 095.H800.00

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010.0183.XX
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11
20
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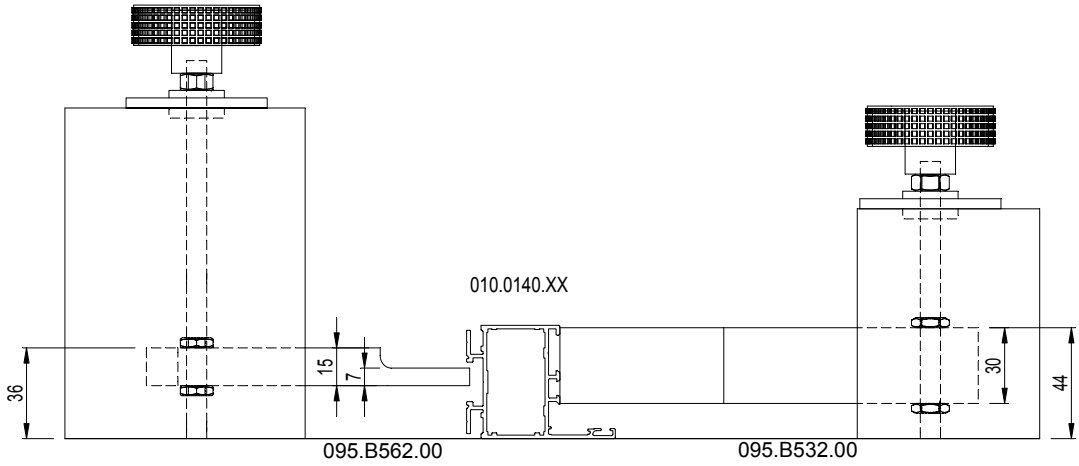
095.B533.00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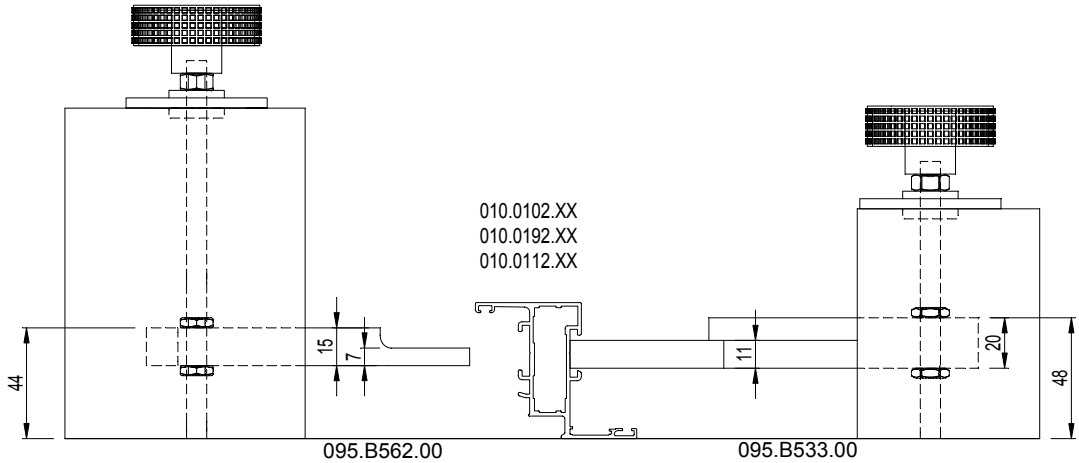
095.B532.00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010.0192.XX
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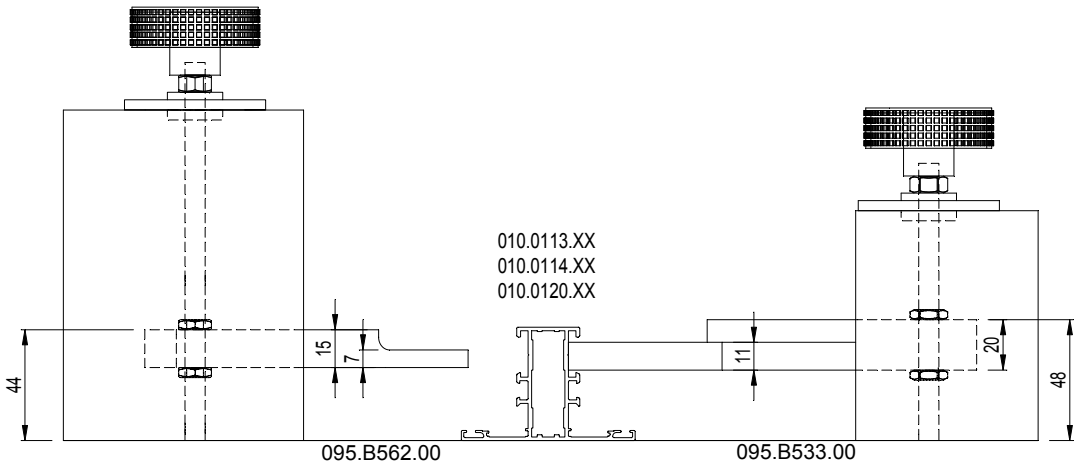
7
11
20
48
095.B562.00
095.B533.00

D2000122

F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010.0114.XX
010.0120.XX
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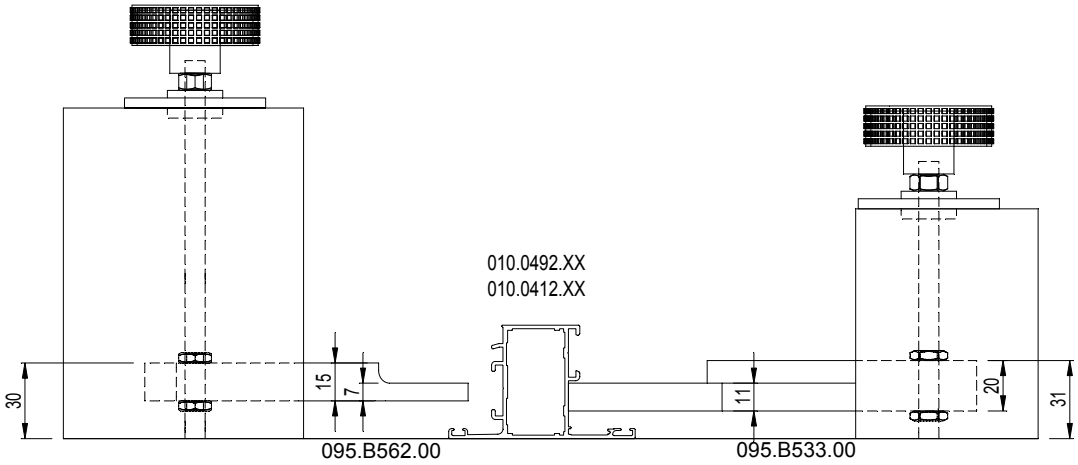
15
7
11
20
48
095.B562.00
095.B533.00


010.0492.XX
010.0412.XX
30
15
7
11
20
31
095.B562.00
095.B533.00

F

D2000122

Steunhoek 060.8736.00
MONTAGEVOLGORDE

1. Monteren steunhoek
2. Aanschroeven met bits 097.0754.00

Cale de feuillure 060.8736.00
L'ORDRE DE MONTAGE

1. Assemblage câle de feuillure
2. Vissable cles coudees bits 097.0754.00

Eckwinkel für Glasanschlag 060.8736.00
MONTAGEREIHENFOLGE

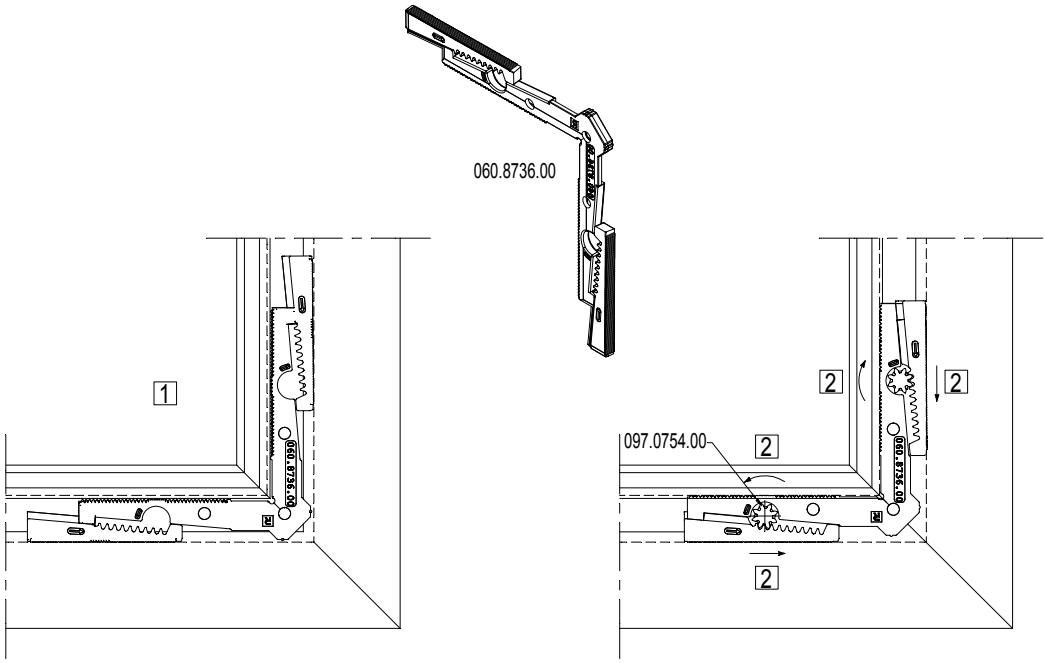
1. Montage Stützklotz
2. Anschrauben mit bits 097.0754.00

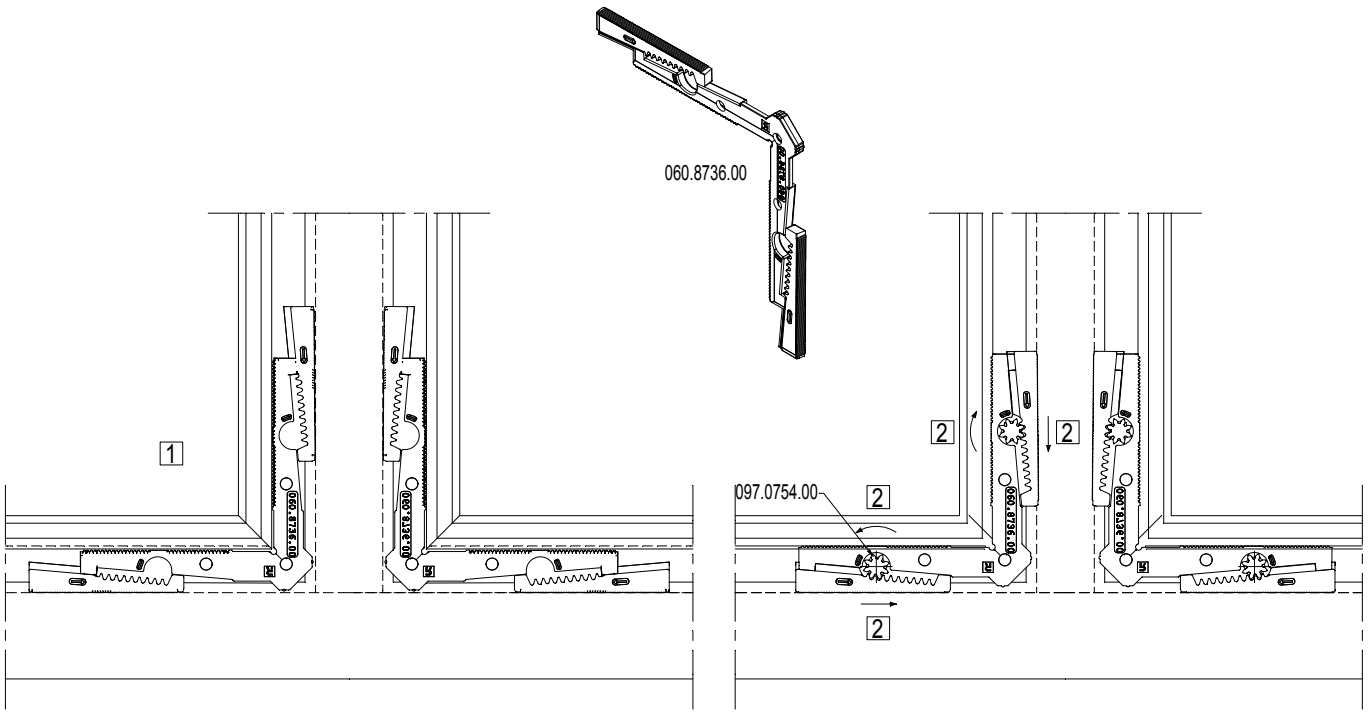
Rebate support 060.8736.00
ORDER OF ASSEMBLY

1. Assembly corner support
2. To screw with bits 097.0754.00

Squadrette 060.8736.00
ORDINE DI ASSEMBLAGGIO

1. Posizionamento squadretta 060.8736.00
2. Avitare l'eccentrico con la brocas 097.0754.00





D2000076

F

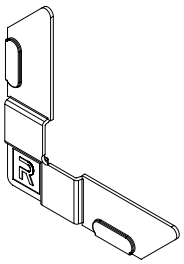
STEUNHOEK
CALE DE FEUILLURE
REBATE SUPPORT
ECKWINKEL

MONTAGEVOLGORDE
1. Montage steunhoek (verlijmbaar)
2. Persen

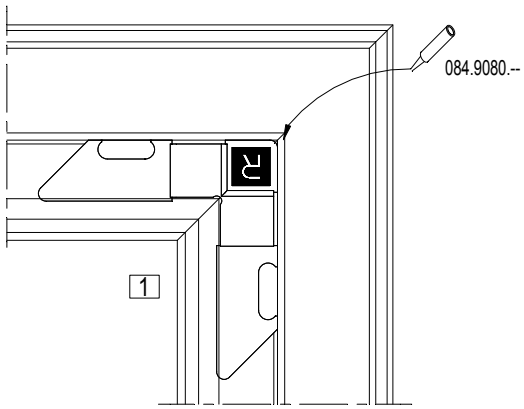
L'ORDRE DE MONTAGE
1. Assemblage câle de feuillure (collable)
2. Sertissage

ORDER OF ASSEMBLY
1. Assembly corner support (can be glued)
2. Crimping

MONTAGEREIHENFOLGE
1. Montage Glasanschlagwinkel (Klebbar)
2. Verpressen



060.8719.--

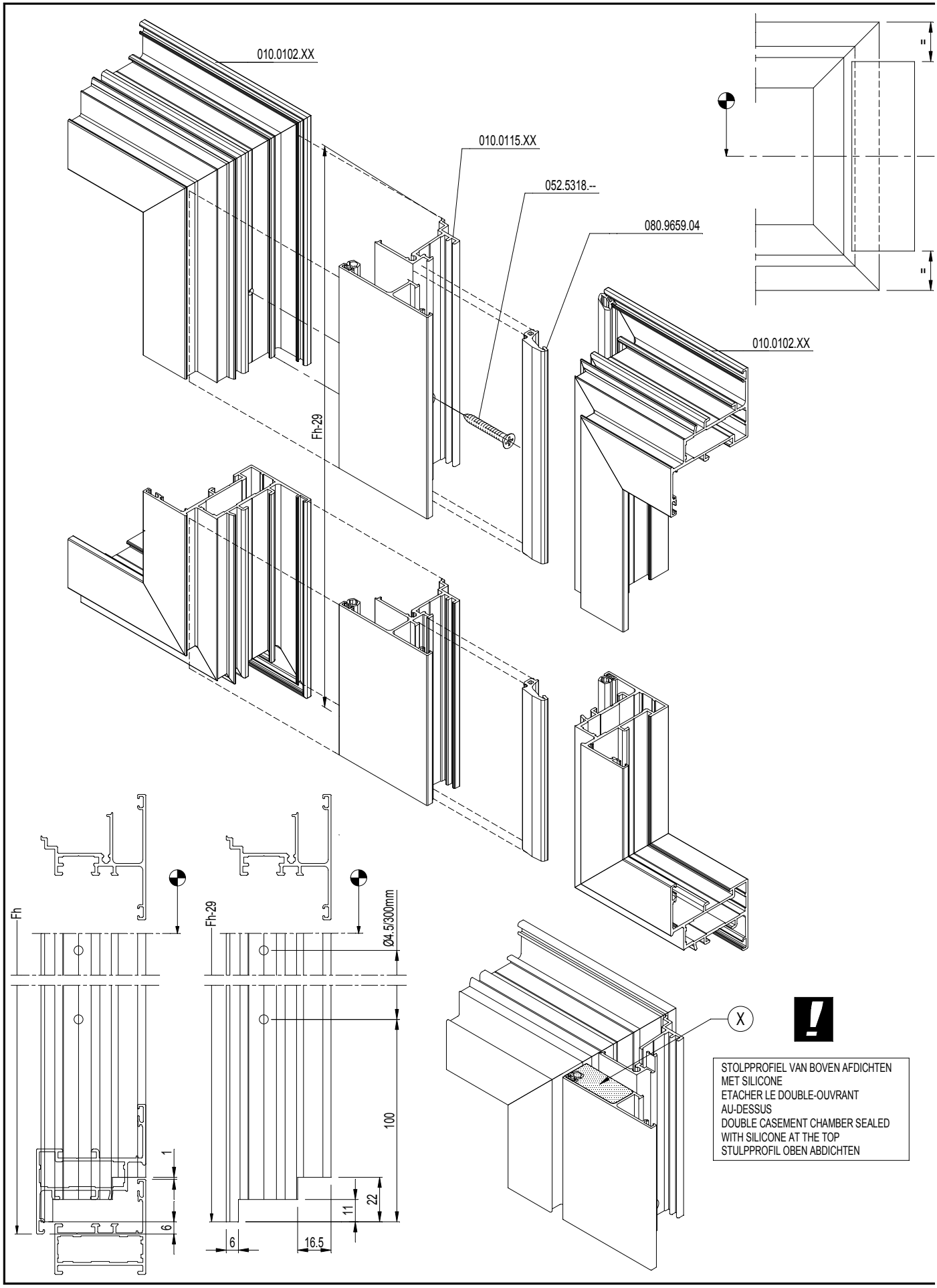


F

D2000076

ES 45Pa

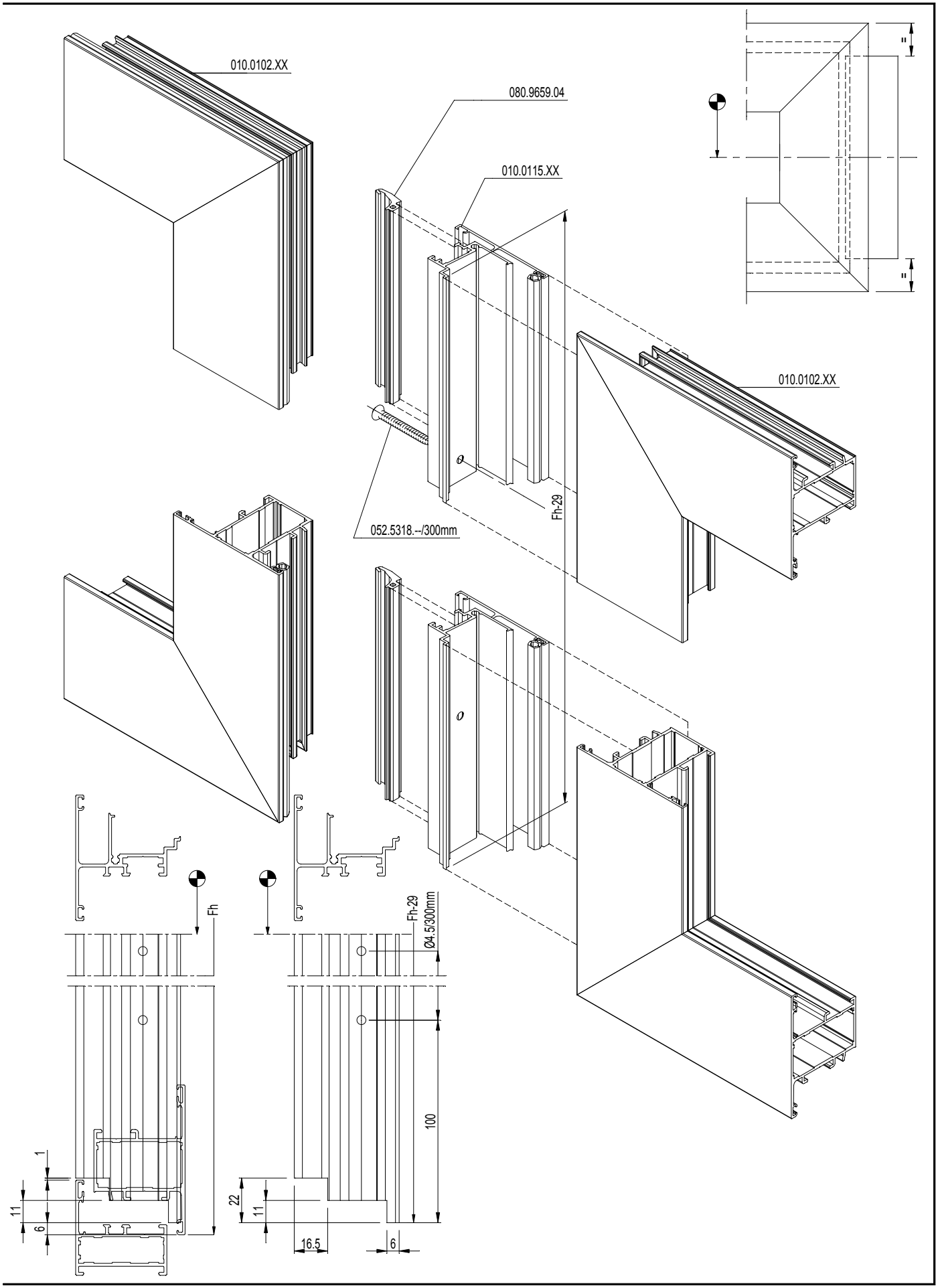
STOLPPROFIEL RAAM NAAR BINNENDRAAIEND
BATTEE CENTR. FEN. DOUBLE OUVR. OUVR. L'INT.
DOUBLE CASEMENT PROF. WINDOW INW. OPENING
STULPPROFIL FENSTER NACH INNEN OEFFNEND



F

ES 45Pa

STOLPPROFIEL RAAM NAAR BUITENDRAAIEND
BATTEE CENTR. FENETRE DOUBLE OUVR. OUVR. L'EXT.
DOUBLE CASEMENT PROF. WINDOW OUTW. OPENING
STULPPROFIL FENSTER NACH AUSSEN OEFNNEND

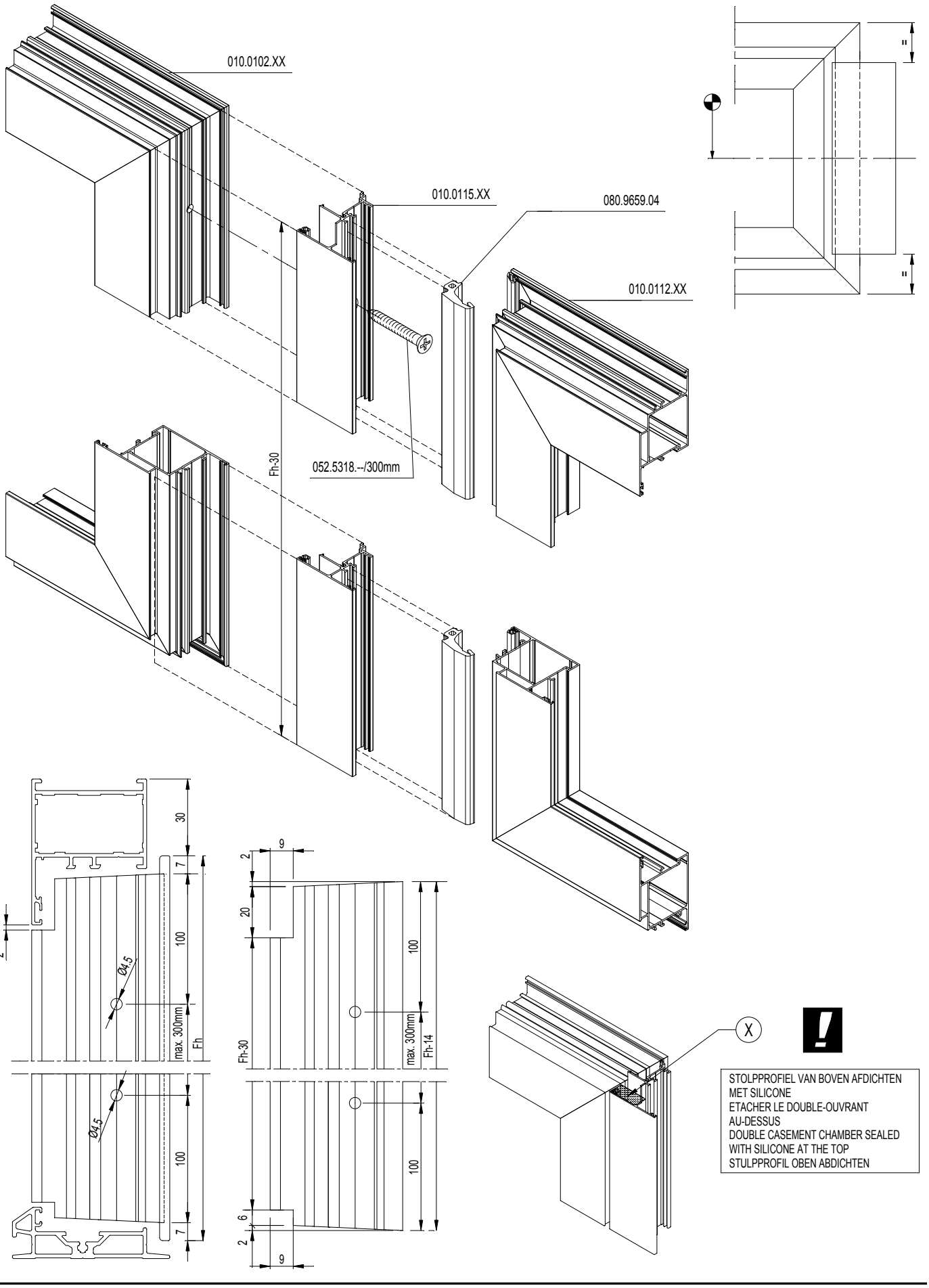


D2000077

F

ES 45Pa

STOLPPROFIEL RAAMDEUR NAAR BINNENDRAAIEND
BATTEE CENTR. PORTE-FEN. DOUBLE OUVR. OUVR. L'INT.
DOUBLE CASEMENT PROF. WINDOW-DOOR INW. OPENING
STULPPROFIL FENSTERTUER NACH INNEN OEFFNEND

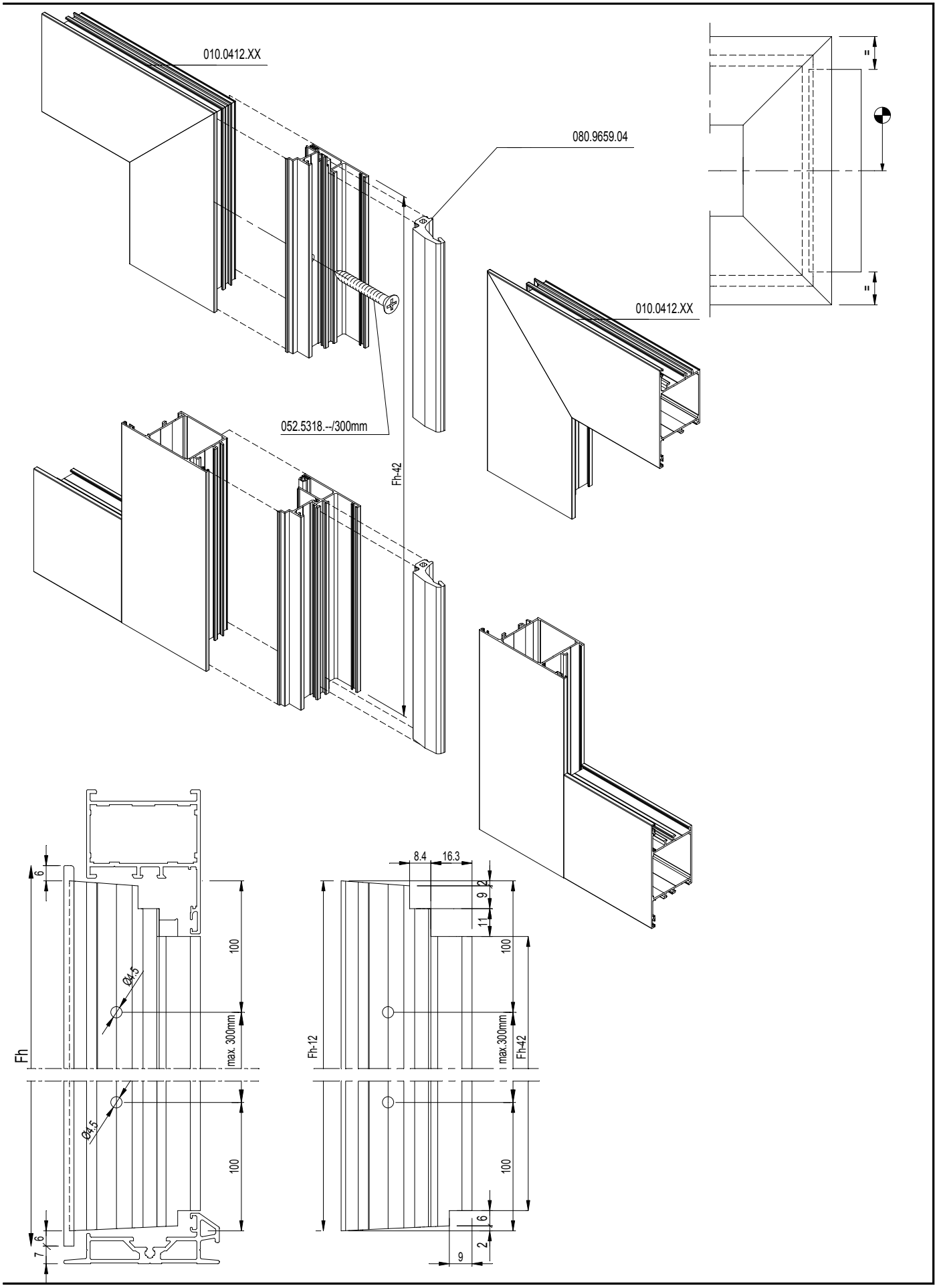


D2000153

F

ES 45Pa

STOLPPROFIEL RAAMDEUR NAAR BUITENDRAAIEND
BATTEE CENTR. PORTE-FEN. DOUBLE OUVR. OUVR. L'EXT.
DOUBLE CASEMENT PROF. WINDOW-DOOR OUTW. OPENING
STULPPROFIL FENSTERTUER NACH AUSSEN OEFFNEND

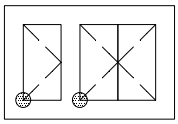


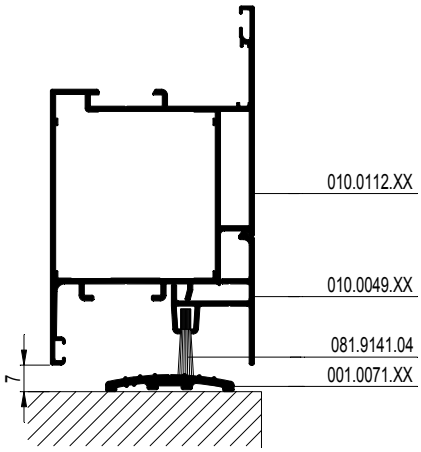
D2000153

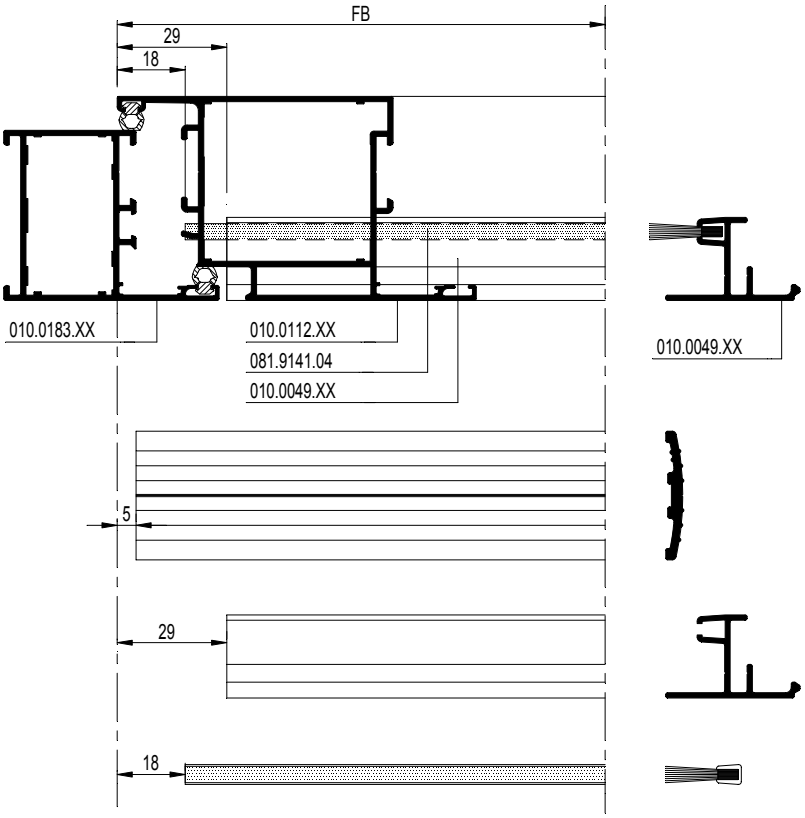
F

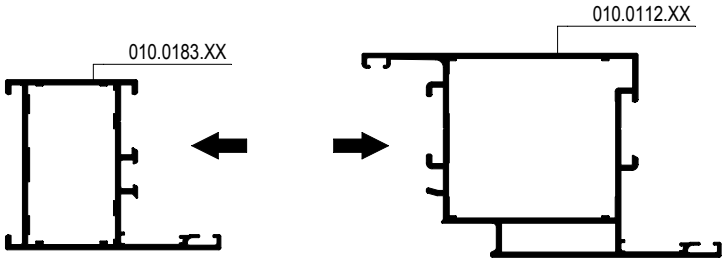
ES 45Pa

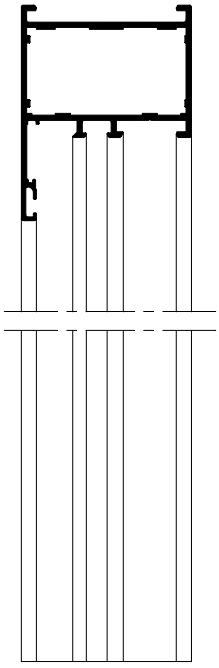
STOLPDEUR BINNENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE DOUBLE OUVR. VERS L'INT.
DOUBLE CASEMENT DOOR INWARD OPENING WITH BRUSH
STULPFLUEGELTUER IN. OEFFN. MIT BUERSTENDICHTUNG

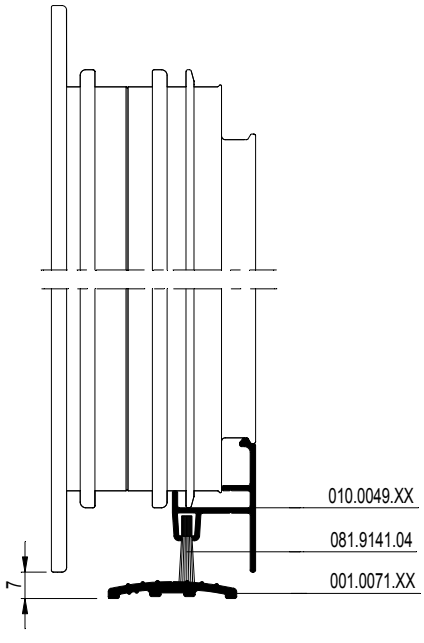










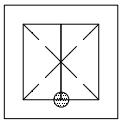


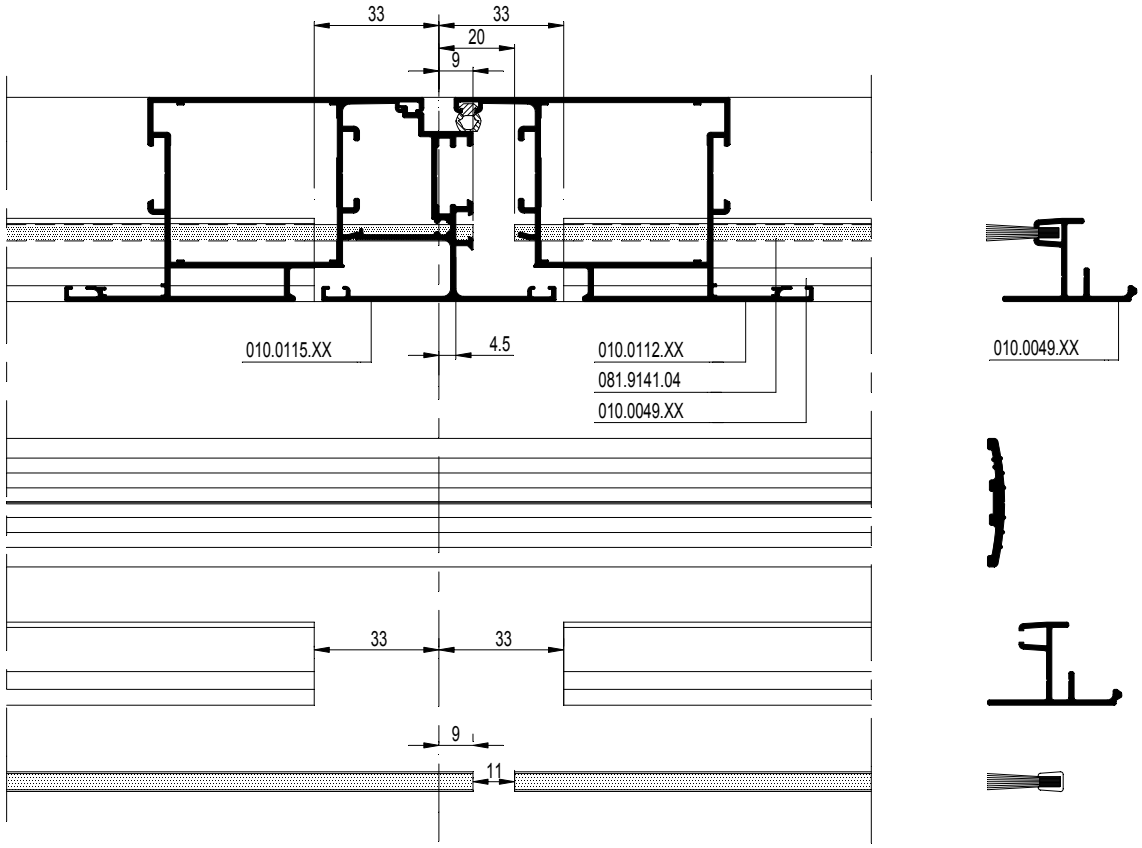
D2000082

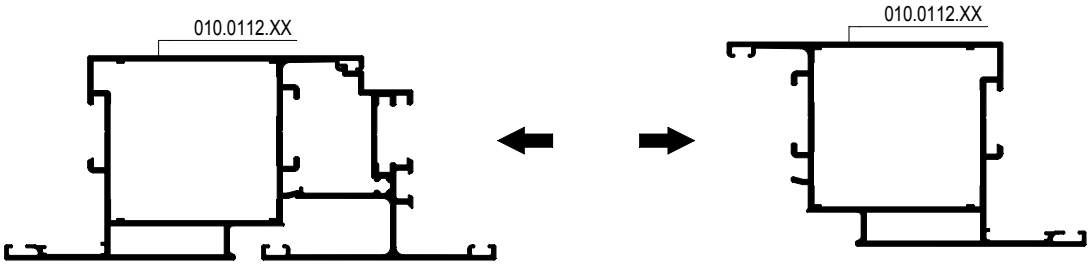
F

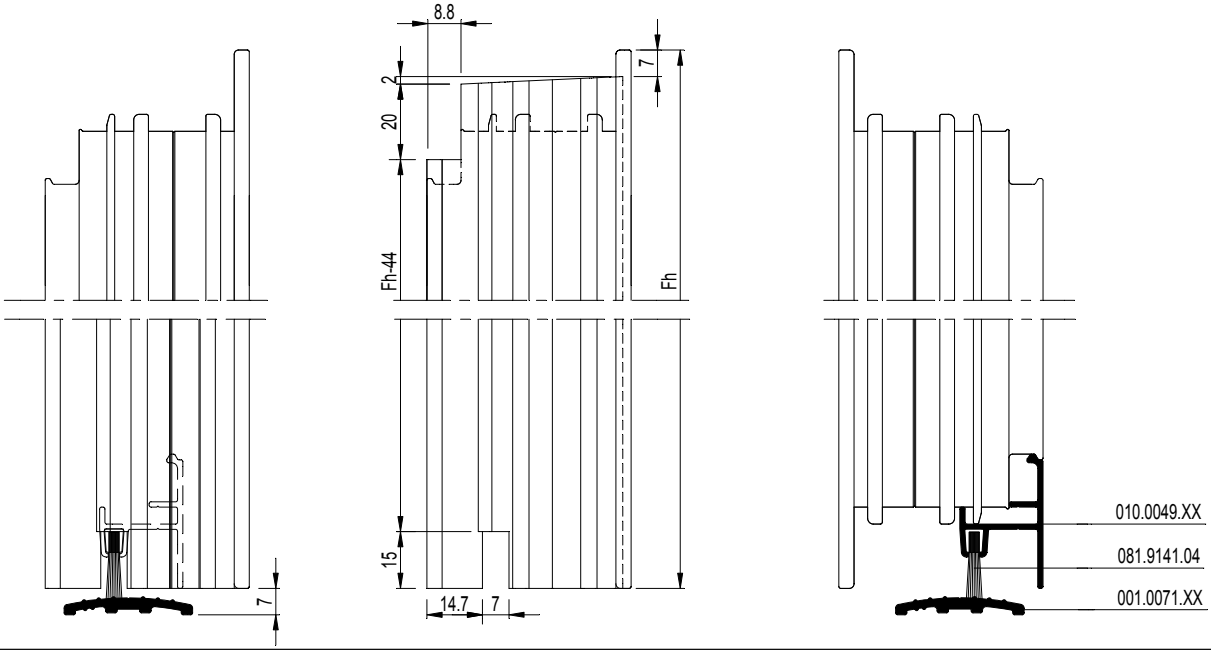
ES 45Pa

STOLPDEUR BINNENDR. MET BORSTELAFSLUITING
JOINT-BROSSE PORTE DOUBLE OUVR. VERS L'INT.
DOUBLE CASEMENT DOOR INWARD OPEN. WITH BRUSH
STULPFLUEGELTUER INNER OEFFN.MIT BUERSTENDICHT.







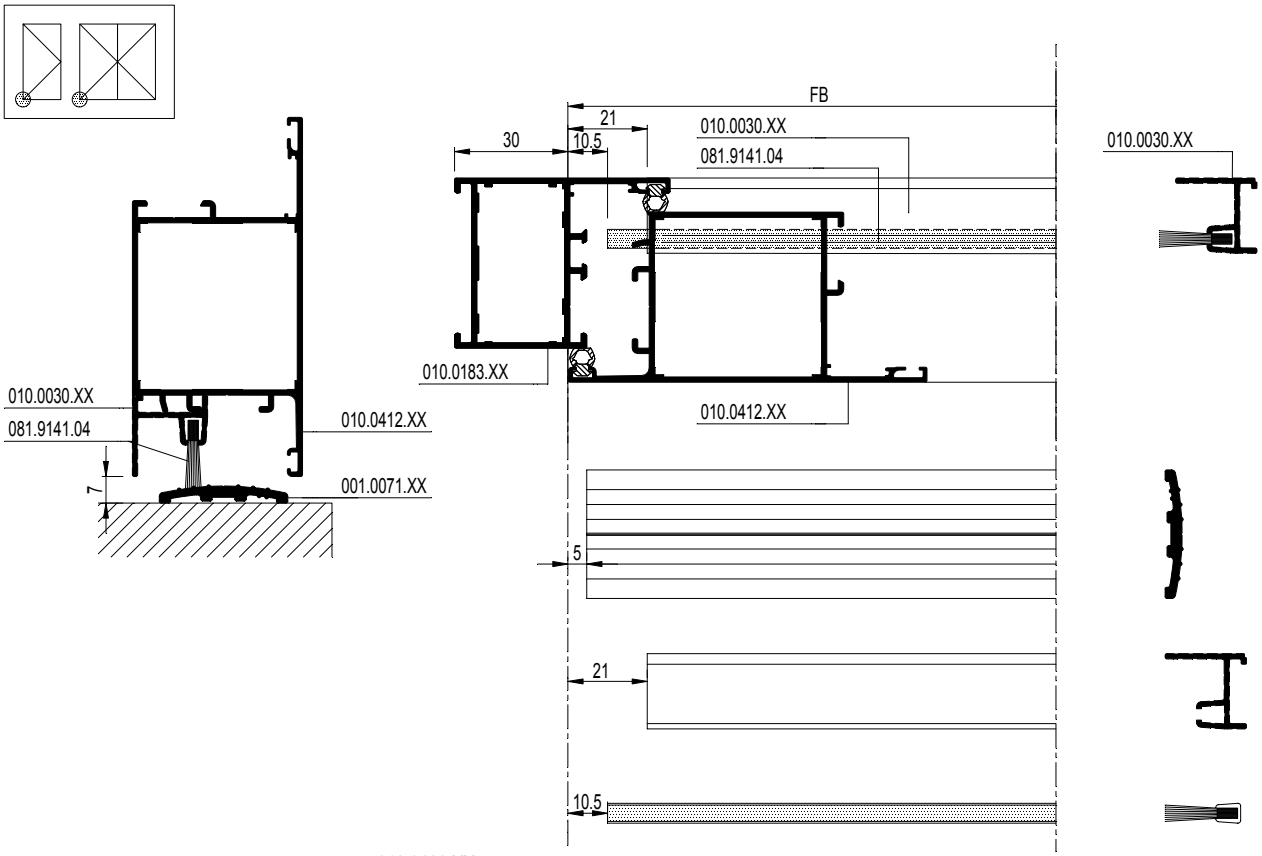


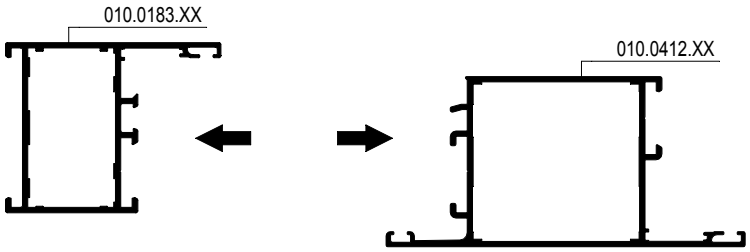
D2000082

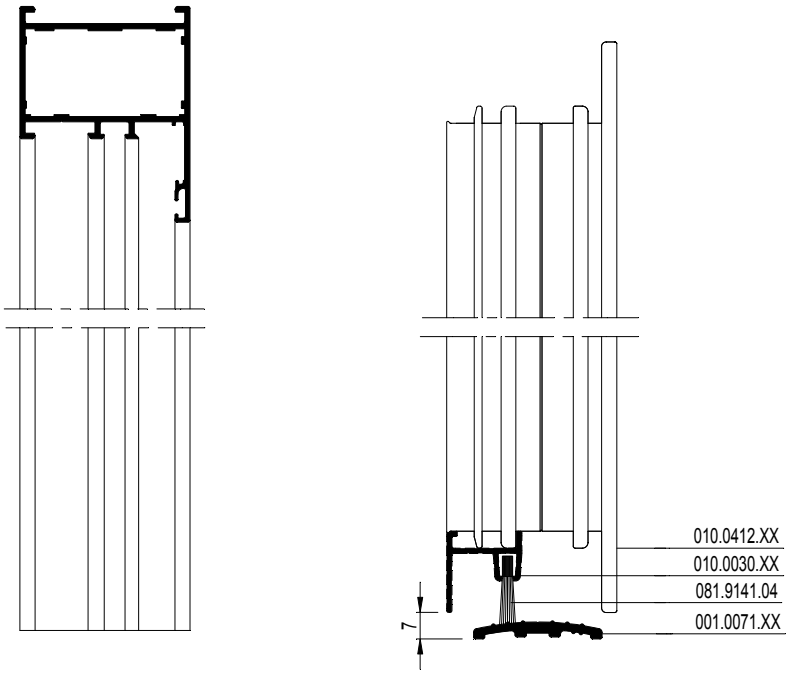
F

ES 45Pa

STOLPDEUR BUITENDRAAIEND MET BORSTELAFSLUITING
JOINT-BROSSE PORTE DOUBLE OUVRANT VERS L'EXT.
DOUBLE CASEM. DOOR OUTWARD OPENING WITH BRUSH
STULPFL.TUER AUSSEN OEFFN. MIT BUERSTENDICHTUNG





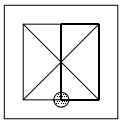


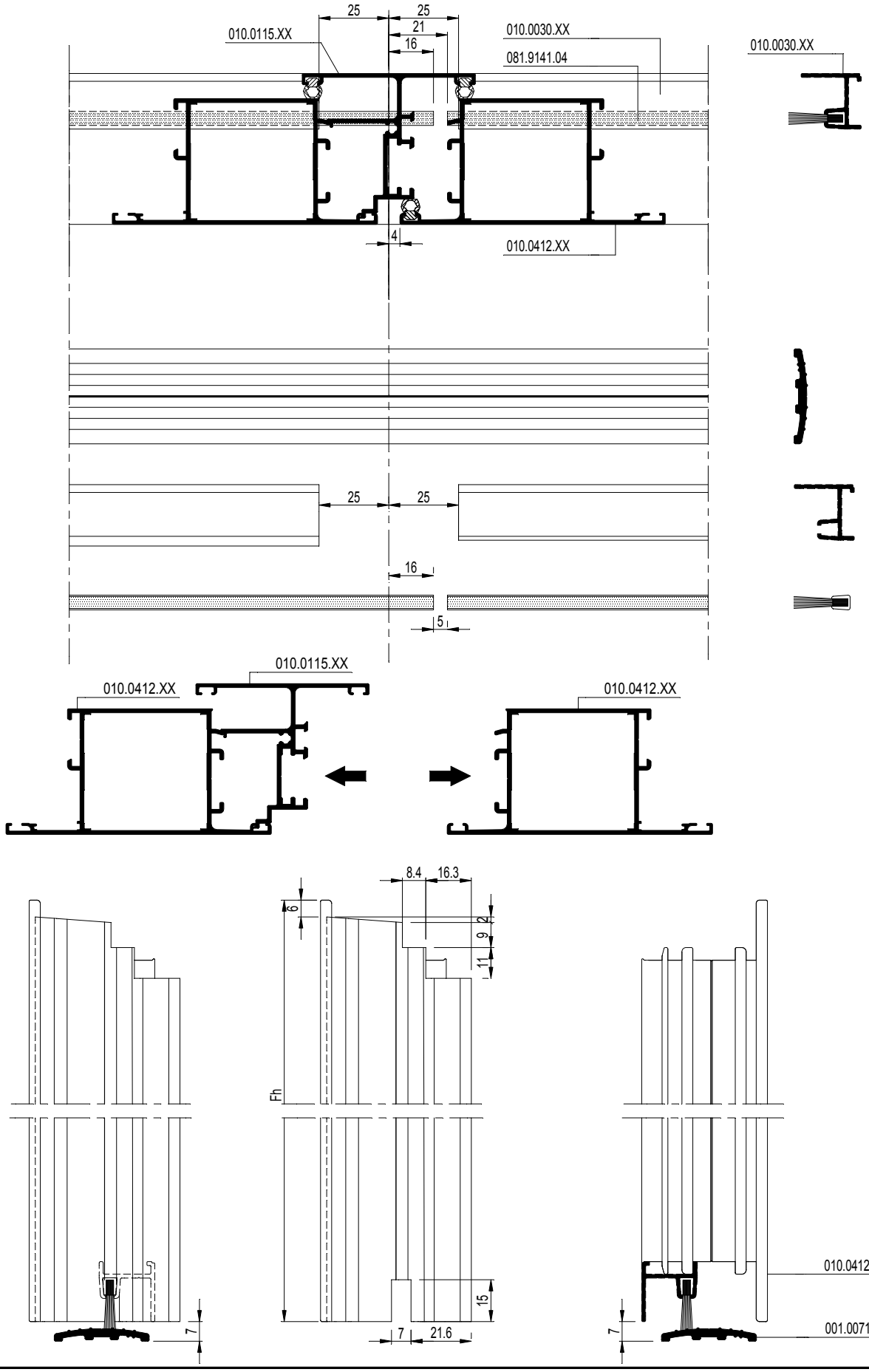
D2000083

F

ES 45Pa

STOLPDEUR BUITENDRAAIEND MET BORSTELAFSLUITING
JOINT-BROSSE PORTE DOUBLE OUVRANT VERS L'EXT.
DOUBLE CASEM. DOOR OUTWARD OPENING WITH BRUSH
STULPFL.TUER AUSSEN OEFFN. MIT BUERSTENDICHTUNG



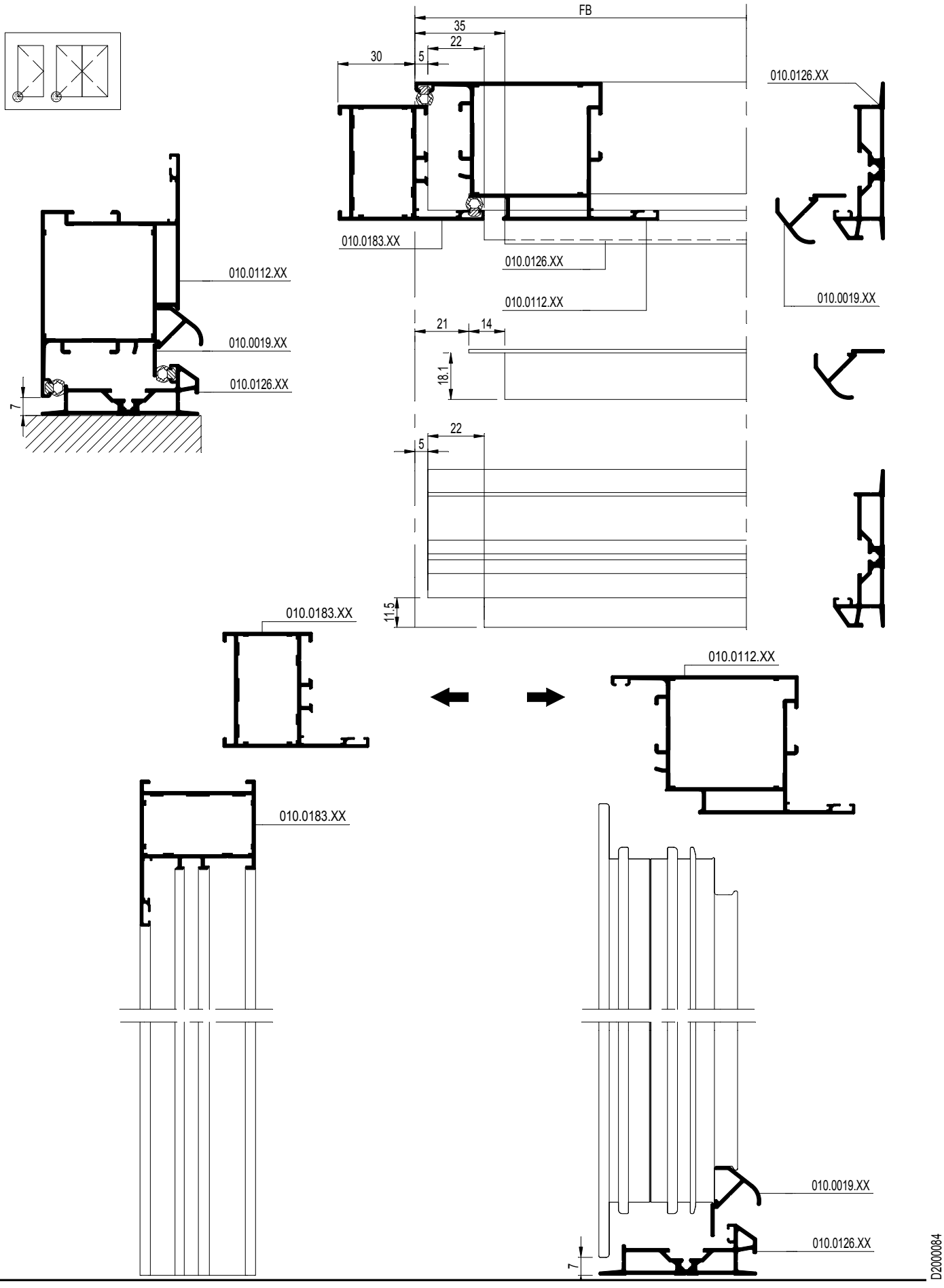


F

D2000083

ES 45Pa

STOLPDEUR BINNENDRAAIEND MET DUBBELE AANSLAGDICHTING
PORTE DOUBLE AVEC D. JOINT DE BUTEE OUVR. V. L'INT.
DOUBLE CASEM. D. INW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER IN. OEFFN. MIT DOPPELANSCHLAGDICHTUNG

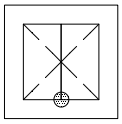


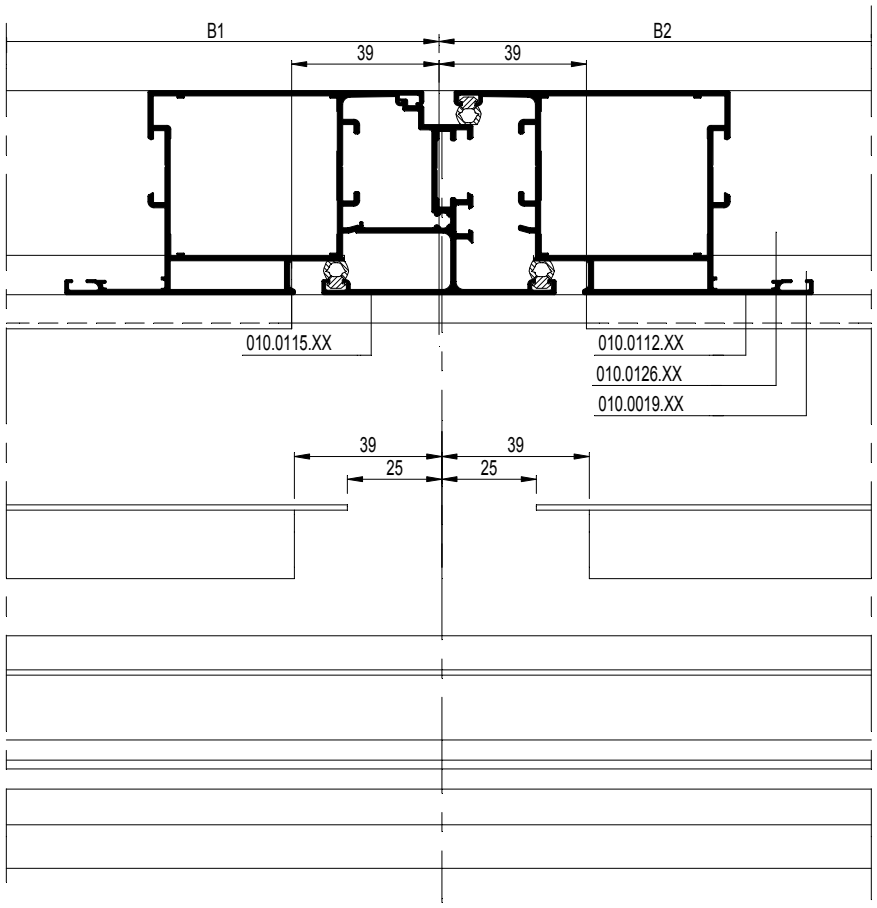
D2000084

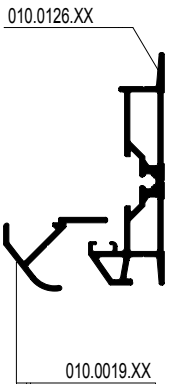
F

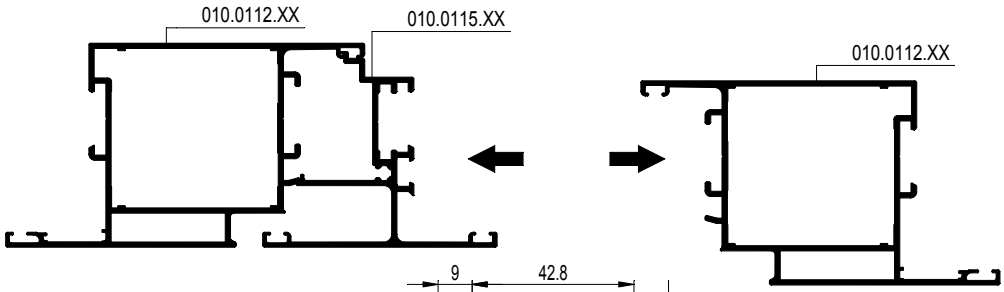
ES 45Pa

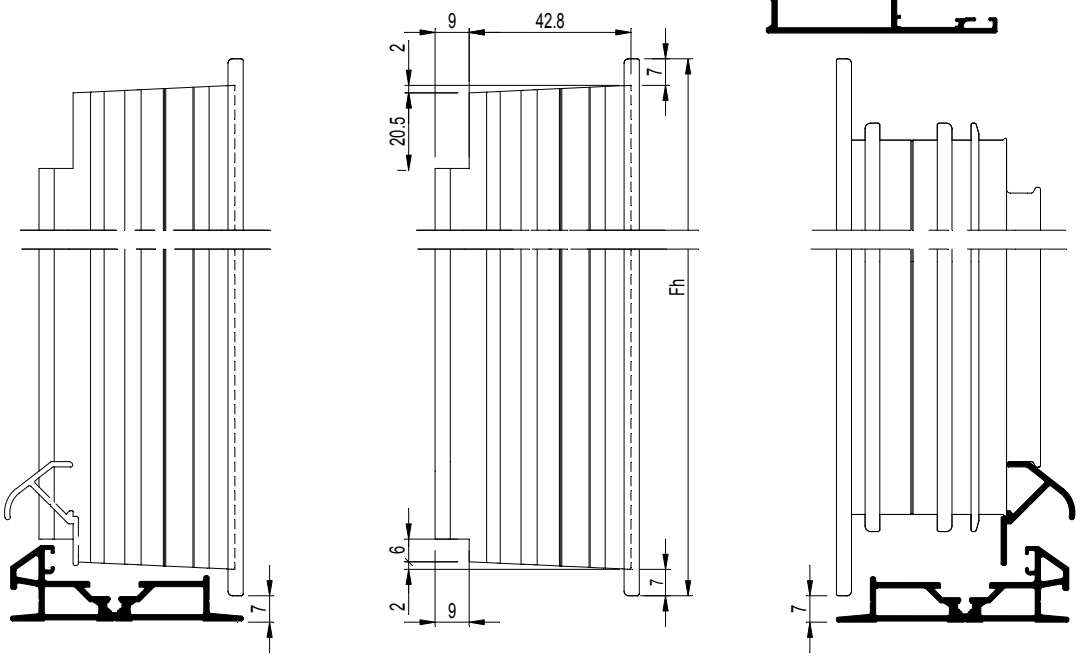
STOLPDEUR BINNENDRAAIEND MET DUBBELE AANSLAGDICHTING
PORTE DOUBLE AVEC D. JOINT DE BUTEE OUVR. V. L'INT.
DOUBLE CASEM. D. INW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER IN. OEFFN. MIT DOPPELANSCHLAGDICHTUNG











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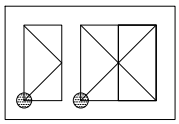
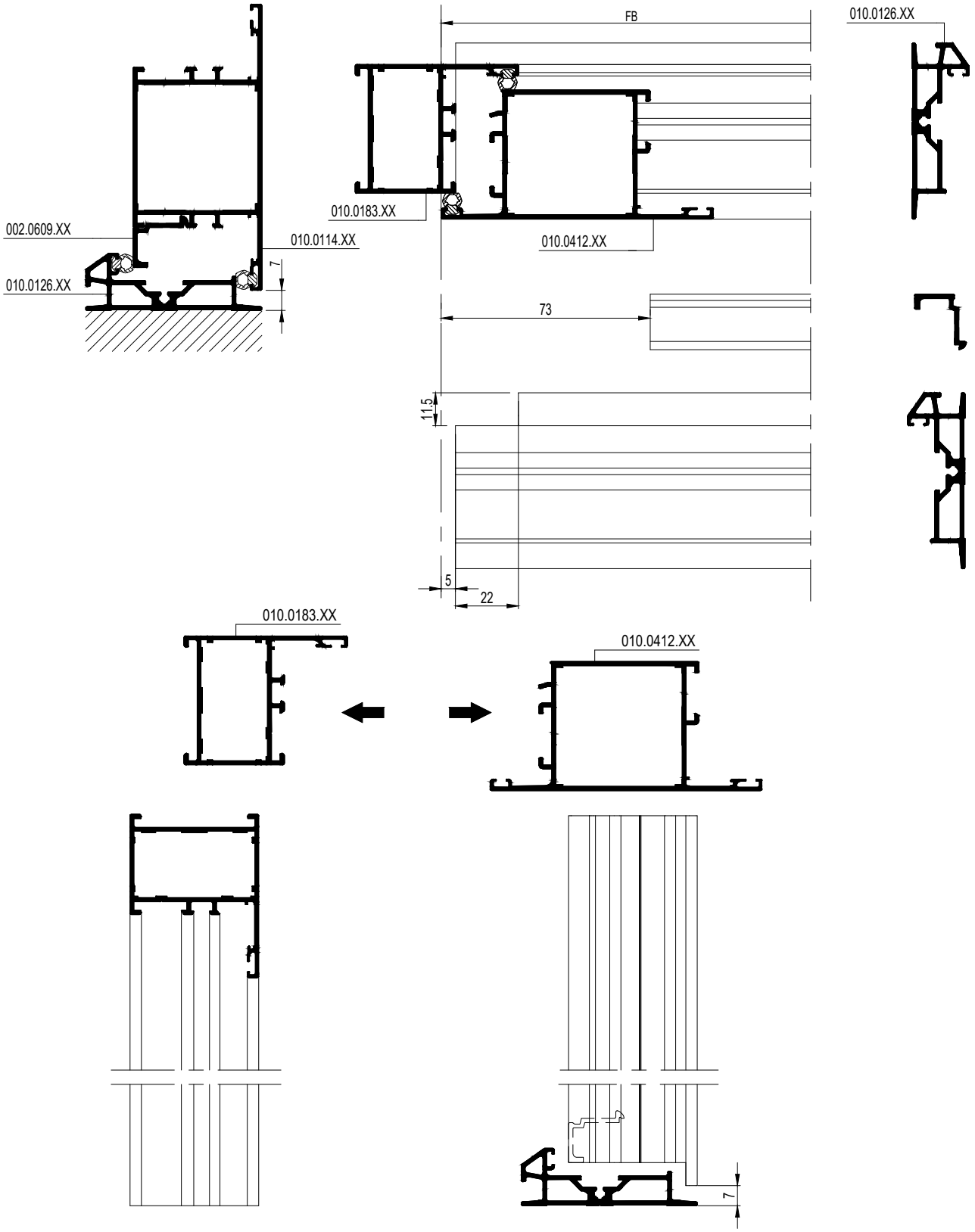
D2000084

ES 45Pa

STOLPDEUR BUITENDR. MET DUBBELE AANSLAGDICHTING
PORTE DOUB. AVEC DOUB. JOINT DE BUTEE OUVR. V. L'EXT.
DOUBLE CASEM. D. OUTW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHT.



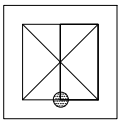


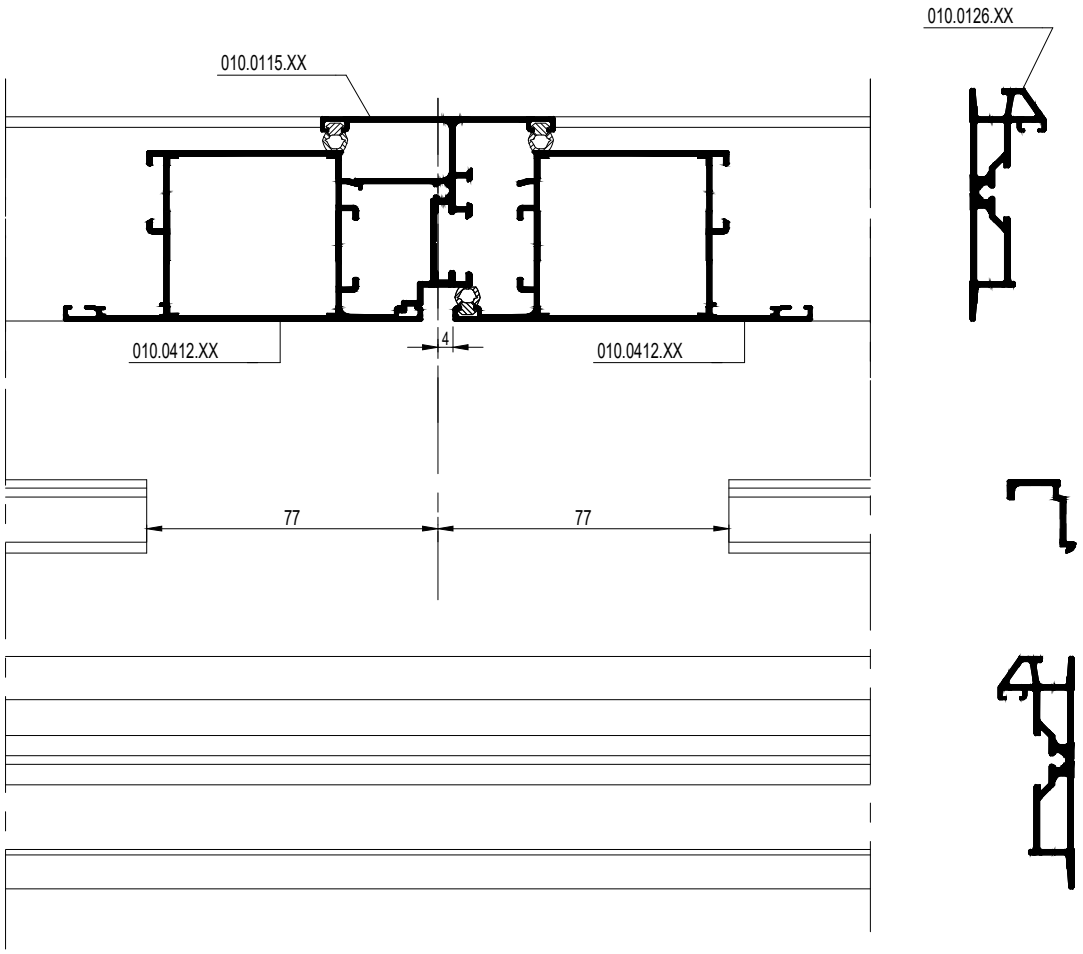
D2000085

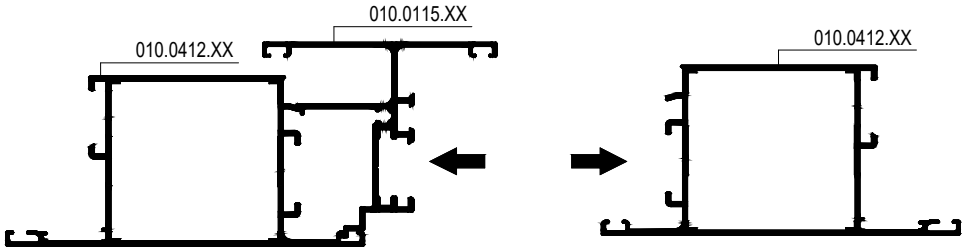
ES 45Pa

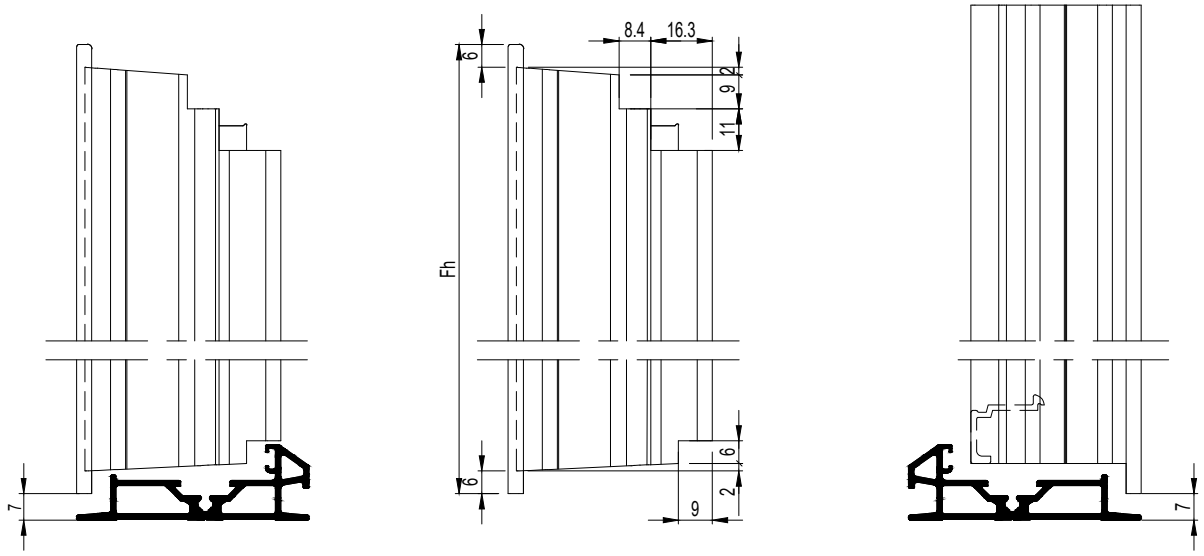
STOLPDEUR BUITENDR. MET DUBBELE AANSLAGDICHT.
PORTE DOUB. AVEC DOUB. JOINT DE BUTEE OUVR. V. L'EXT.
DOUBLE CASEM. D. OUTW. OPEN. WITH DOUB. WEATHER STRIP
STULPFL.TUER AUSSEN OEFFN. MIT DOPPELANSCHLAGDICHT.

Reynaers Aluminium









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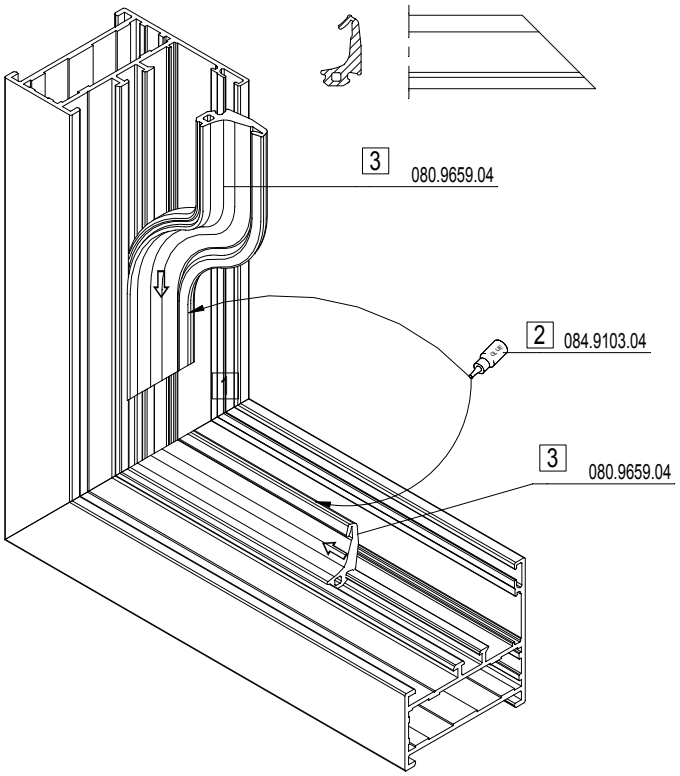
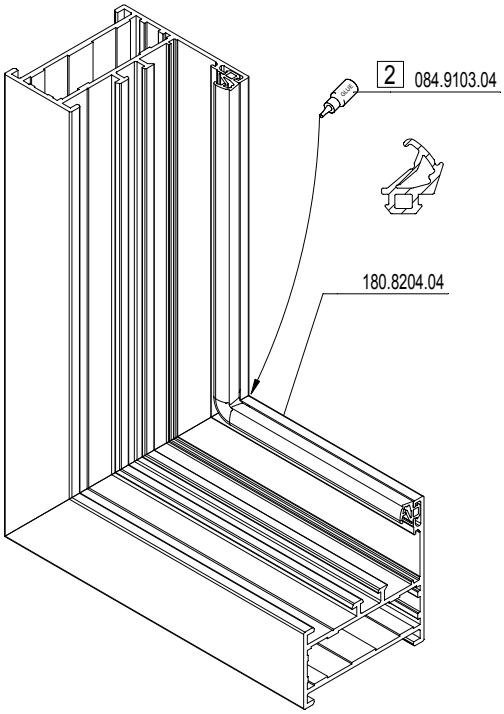
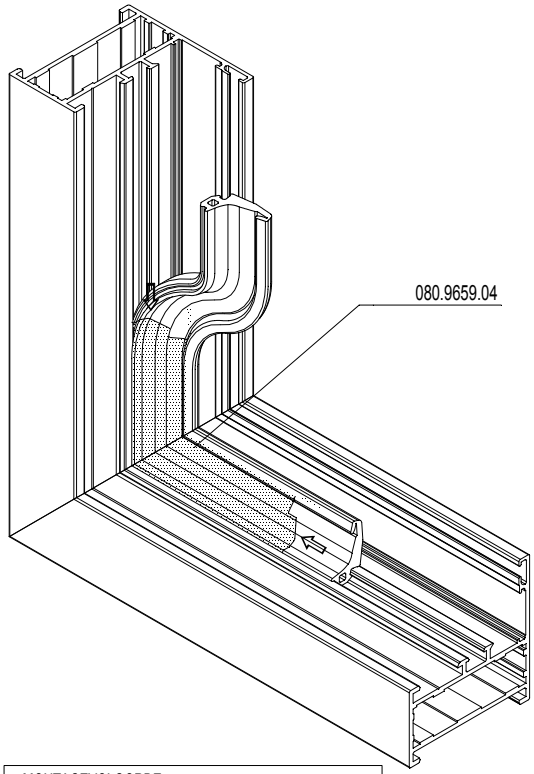
D2000085

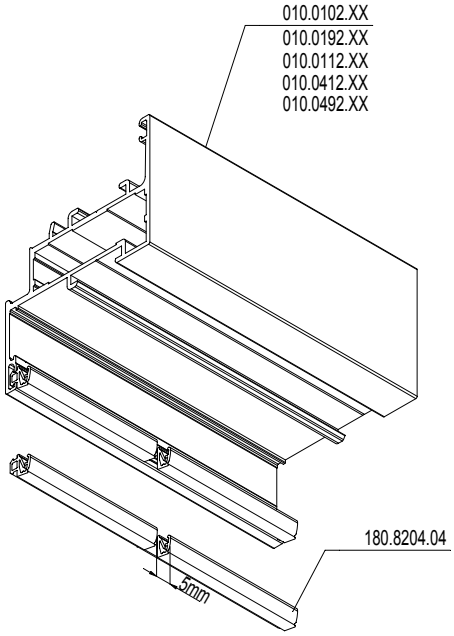
ES 45Pa

DICHTING
JOINT
GASKET
DICHTUNG









MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
ORDEN DE MONTAJE
KOLEJNOSC MONTAZU
ORDINE DI ASSEMBLAGGIO

1 2 3 .

BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
INFO COMPLEMENTAIRE PREPARATION/USINAGE -> CONSULTEZ CHAPITRE B !
ADDITIONAL INFO PREPARATION/PROCESSING -> CONSULT CHAPTER B !
ZUSAETZLICHE INFO VORBEREITUNG/VERARBEITUNG -> SIEHE KAPITEL B !
INFORMACION ADICIONAL PREPARACIÓN/PROCESO -> CONSULTAR CAPÍTULO B
DODATKOWE INFORMACJE DOTYCZACE WYKONAWSTWA -> PATRZ ROZDZIAL B
INFORMAZIONI ADDIZIONALI -> CONSULTARE CAPITOLO B!

D2000078

F

ES 45Pa

BEGLAZINGSMETHODE
METHODE DE VITRAGE
GLAZING METHOD
VERGLASUNGSWEISE

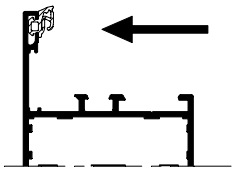
Reynaers Aluminium

1

Aanbrengen van dichting
Mise en place joint
Insert gasket
Montage Dichtung
Colocar junta
Instalacja uszczelki
Inserire guarnizione

DICHTING JUNTA
JOINT USZCZELKA
GASKET GUARNIZIONE
DICHTUNG

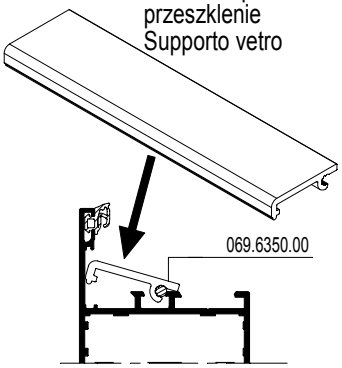
180.8204.04



2

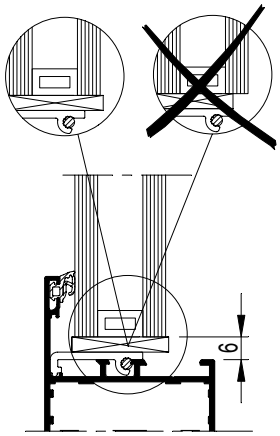
Aanbrengen glassteun
Mise en place qupport cale de vitrage
Insert glazing support
Montage Klotzbrücke
Colocar soporte vidrio
Montaz podkladki pod przeszklenie
Inserire il supporto vetro

MAX. 150 kg / Glassteun
Support cale de vitrage
Glazing support
Klotzbrücke
Soporte vidrio
Podkladki pod przeszklenie
Supporto vetro



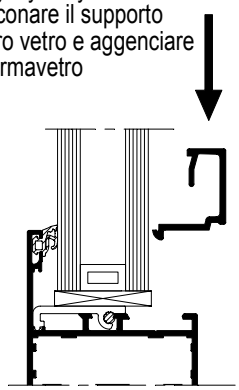
3

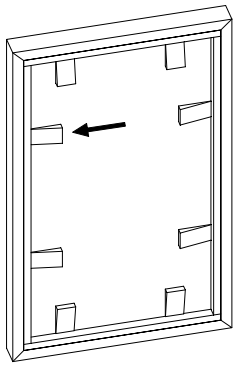
Glasplaatsing en opspieën
Pose de vitrage et des cales
Pos. of glass panels with spacers
Verklotzung der Scheiße
Colocación de los vidrios con separadores
Pozycjonowanie szyby z podkladka dystansowa
Posizionare il vetro con distanziali



4

Afdichten van glassteunen en aanbrengen van glaslatten
Etancher les supports cale de vitrage et mettre en place les parcloses
Seal off glass supports and clip in beads
Abdichtung Verglasungsklötze und Montage Glasleisten
Sellado de los calzos para vidrio y grapas junquillos
Doszczelnienie podkladki pod przeszklenie i zapiecie listew przyszybowych
Siliconare il supporto vetro vetro e aggenciare il fermavetro

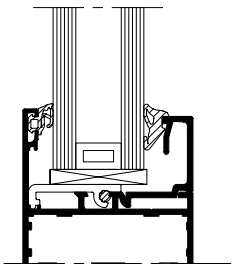


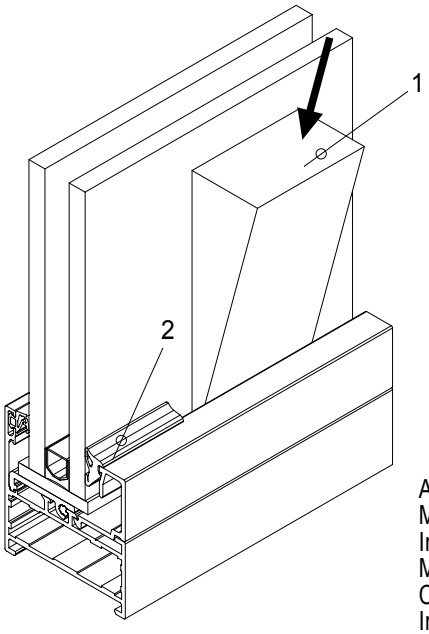


Gereedschap in hout of PVC vergemakkelijkt het plaatsen
Outillage en bois ou PVC facilite le montage
A wooden or PVC spacer can be used to insert glazing gasket
Hilfskeile aus Holz oder Kunststoff verringern die Montagezeiten
Un separador de madera o PVC puede utilizarse para colocar la junta de acristalar
W celu montazu wewnetrznej uszczelki szklacej nalezy uzywac drewnianych lub tworzywowych klinow
Un distanziale di legno o PVC può essere usato per inserire la guarnizione vetro

DICHTING
JOINT
GASKET
DICHTUNG
JUNTA
USZCZELKA
GUARNIZIONE

180.8204.04





MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
ORDEN DE MONTAJE
KOLEJNOSC MONTAZU
ORDINE DI ASSEMBLAGGIO

1 2 3 .

5

Aanbrengen van dichting
Mise en place joint
Insert gasket
Montage Dichtung
Colocar junta
Instalacja uszczelki
Inserire guarnizione

BIJKOMENDE INFO VOORBEREIDING/VERWERKING -> RAADPLEEG HOOFDSTUK B !
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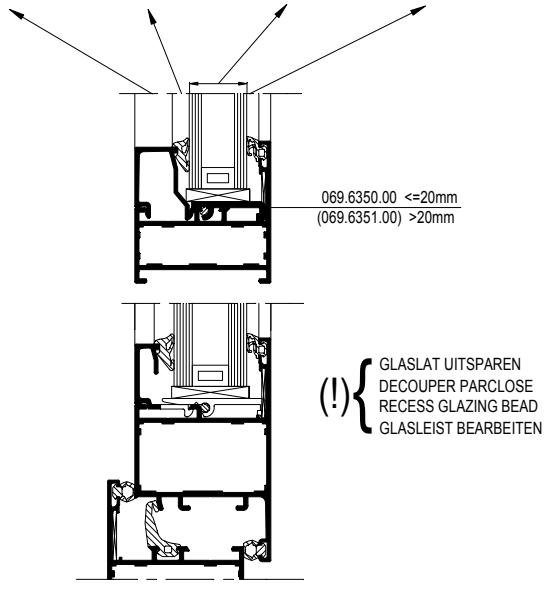
INFORMAZIONI ADDIZIONALI -> CONSULTARE CAPITOLO B!

F

D2000078

Voor vaste kader - Raamvleugel buitendraaiend
Pour dormant - Ouvrant fenêtre vers l'extérieur
For outer frame - Window vent outward opening
Für Blendrahmen - Fensterflügel nach aussen öffnend

Glaslat Parclose Glazing bead Glasleiste	Beglazingsrubber binnen Joint de vitrage intérieur Glazing gasket inside Verglasungsdichtung innen	Glasdikte Epaisseur de vitrage Glazing thickness Glasdicke	Beglazingsrubber buiten Joint de vitrage extérieur Glazing gasket outside Verglasungsdichtung außen
004.3310.XX	080.9126.SY	4	180.8204.04
004.3310.XX	080.9125.SY	5	180.8204.04
004.3310.XX	080.9124.SY	6	180.8204.04
004.3329.XX	080.9128.SY	7	180.8204.04
004.3329.XX	080.9126.SY	8	180.8204.04
004.3329.XX	080.9126.SY	9	180.8204.04
004.3329.XX	080.9125.SY	10	180.8204.04
004.3329.XX	080.9124.SY	11	180.8204.04
030.3709.XX	080.9128.SY	12	180.8204.04
030.3709.XX	080.9128.SY	13	180.8204.04
030.3709.XX	080.9126.SY	14	180.8204.04
030.3709.XX	080.9126.SY	15	180.8204.04
030.3709.XX	080.9125.SY	16	180.8204.04
030.3709.XX	080.9124.SY	17	180.8204.04
030.3707.XX	080.9125.SY	18	180.8204.04
030.3707.XX	080.9124.SY	19	180.8204.04
030.3708.XX	080.9125.SY	20	180.8204.04
030.3708.XX	080.9124.SY	21	180.8204.04
030.3706.XX	080.9125.SY	22	180.8204.04
030.3706.XX	080.9124.SY	23	180.8204.04
030.3704.XX	080.9125.SY	24	180.8204.04
030.3704.XX	080.9124.SY	25	180.8204.04
030.3705.XX	080.9125.SY	26	180.8204.04
030.3705.XX	080.9124.SY	27	180.8204.04
004.3328.XX	080.9126.SY	28	180.8204.04
004.3328.XX	080.9126.SY	29	180.8204.04
004.3328.XX	080.9125.SY	30	180.8204.04
004.3328.XX	080.9124.SY	31	180.8204.04



Raamvleugel binnendraaiend
Ouvrant fenêtre vers l'interieur
Window vent inward opening
Fensterflügel nach innen öffnend

Glaslat Parclose Glazing bead Glasleiste	Beglazingsrubber binnen Joint de vitrage intérieur Glazing gasket inside Verglasungsdichtung innen	Glasdikte Epaisseur de vitrage Glazing thickness Glasdicke	Beglazingsrubber buiten Joint de vitrage extérieur Glazing gasket outside Verglasungsdichtung außen
*004.3310.XX	080.9125.SY	4	180.8204.04
*004.3310.XX	080.9125.SY	5	180.8204.04
*004.3310.XX	080.9124.SY	6	180.8204.04
*004.3329.XX	080.9128.SY	7	180.8204.04
*004.3329.XX	080.9126.SY	8	180.8204.04
*004.3329.XX	080.9126.SY	9	180.8204.04
*004.3329.XX	080.9125.SY	10	180.8204.04
*004.3329.XX	080.9124.SY	11	180.8204.04
*030.3719.XX	080.9128.SY	12	180.8204.04
*030.3719.XX	080.9128.SY	13	180.8204.04
030.3719.XX	080.9126.SY	14	180.8204.04
030.3719.XX	080.9126.SY	15	180.8204.04
030.3719.XX	080.9125.SY	16	180.8204.04
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030.3717.XX	080.9124.SY	19	180.8204.04
030.3718.XX	080.9125.SY	20	180.8204.04
030.3718.XX	080.9124.SY	21	180.8204.04
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030.3715.XX	080.9125.SY	26	180.8204.04
030.3715.XX	080.9124.SY	27	180.8204.04
030.3197.XX	080.9124.SY	28	180.8204.04
030.3196.XX	080.9130.SY	31(!)	180.8204.04
030.3196.XX	080.9128.SY	32(!)	180.8204.04
030.3196.XX	080.9128.SY	33(!)	180.8204.04
030.3196.XX	080.9126.SY	34(!)	180.8204.04
030.3196.XX	080.9126.SY	35(!)	180.8204.04
030.3196.XX	080.9125.SY	36(!)	180.8204.04
030.3196.XX	080.9124.SY	37(!)	180.8204.04
030.3621.XX	080.9126.SY	38(!)	180.8204.04
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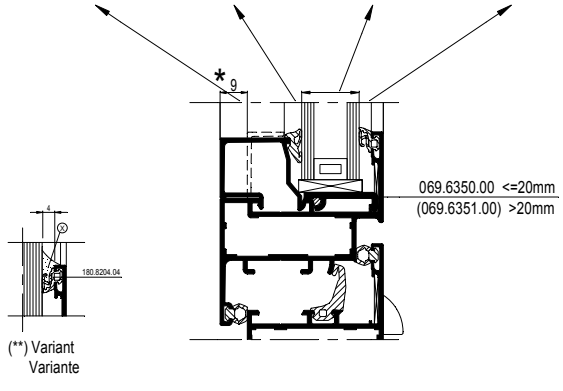
030.3621.XX	080.9124.SY	40(!)	180.8204.04



D2000120

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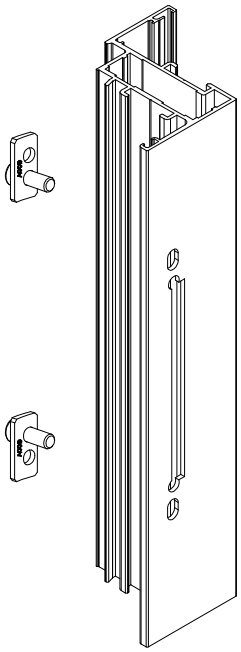
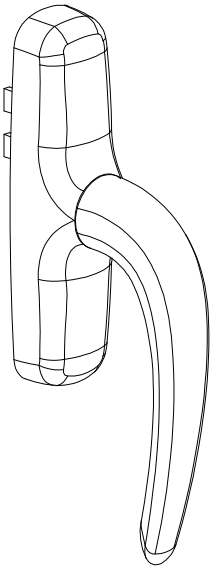
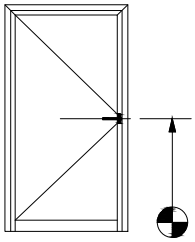
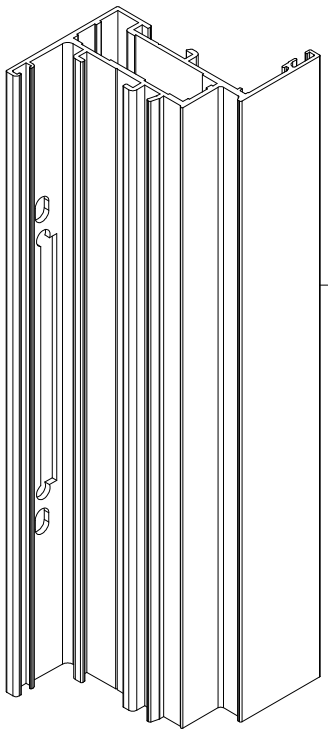
D2000120







Referentiemaat
Dimension de référence
Reference dimension
Referenzmass



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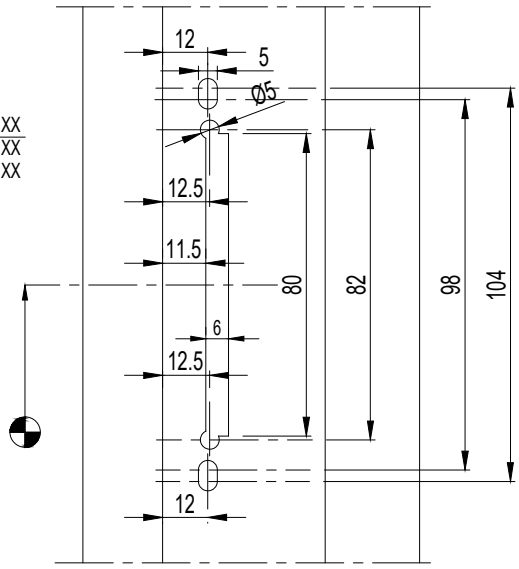

D2000081

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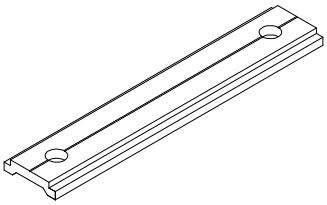
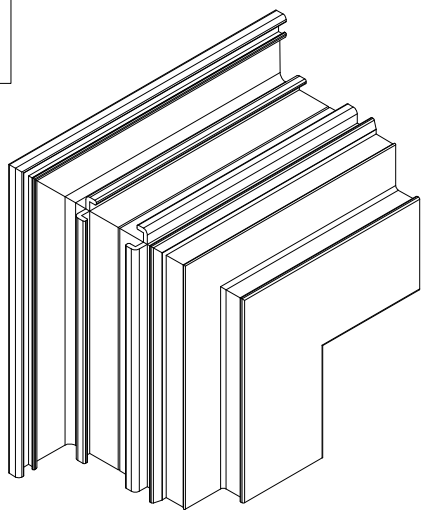
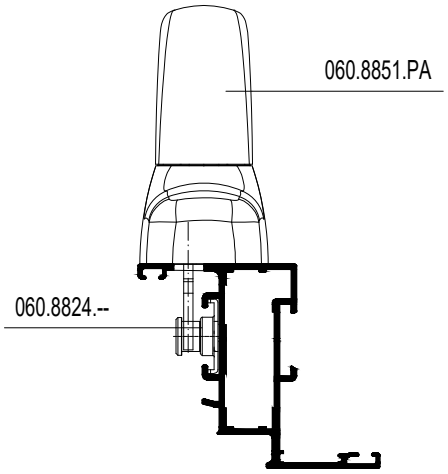
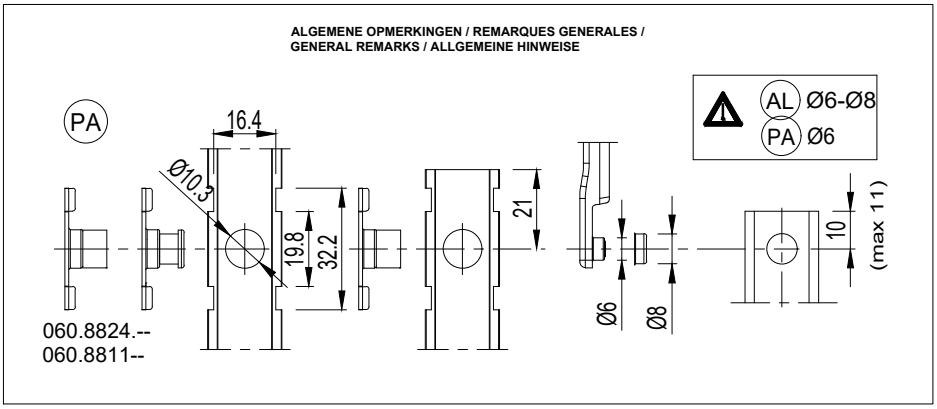
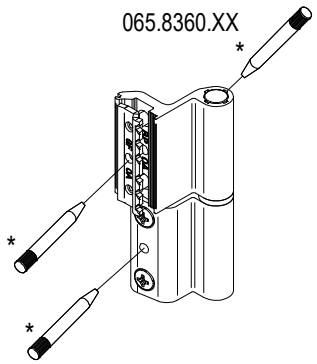




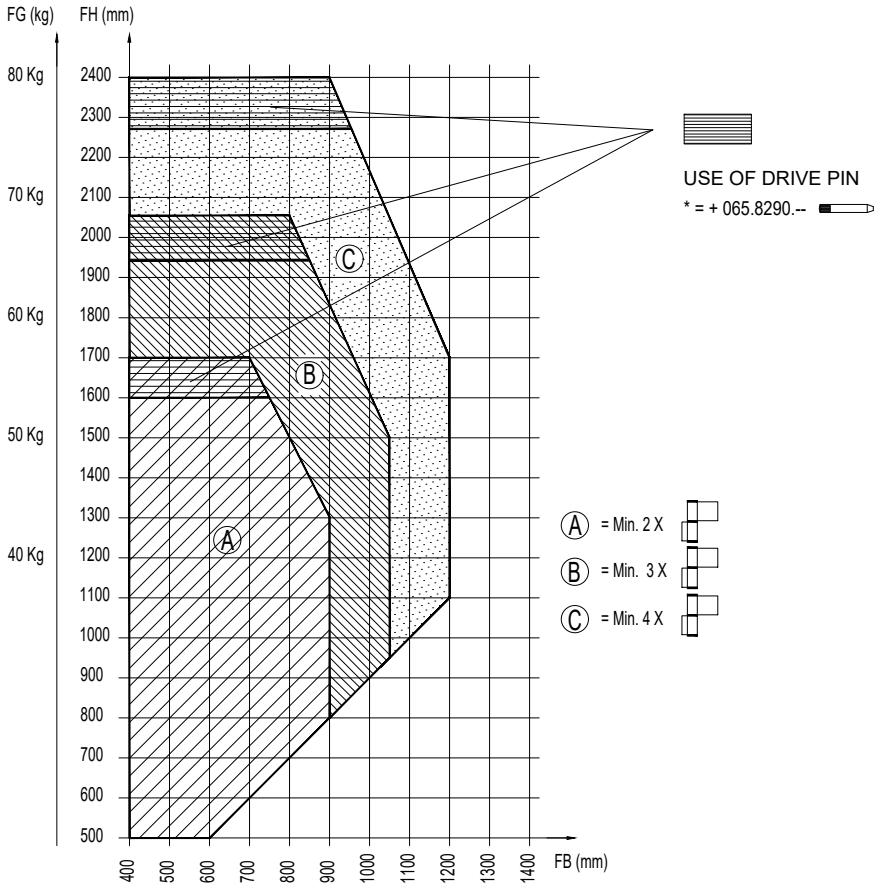


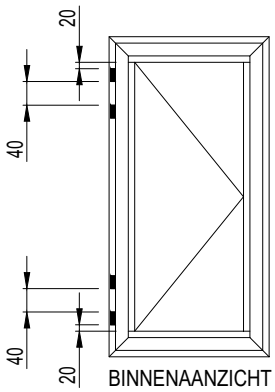
**ALGEMENE OPMERKINGEN / REMARQUES GENERALES /
GENERAL REMARKS / ALLGEMEINE HINWEISE**





NOT FOR MASTERLINE 8 & 10 / SL 38

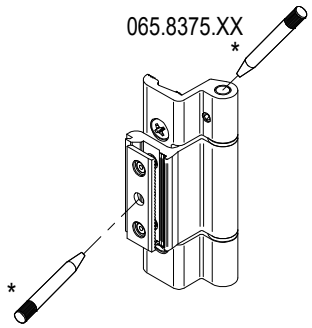




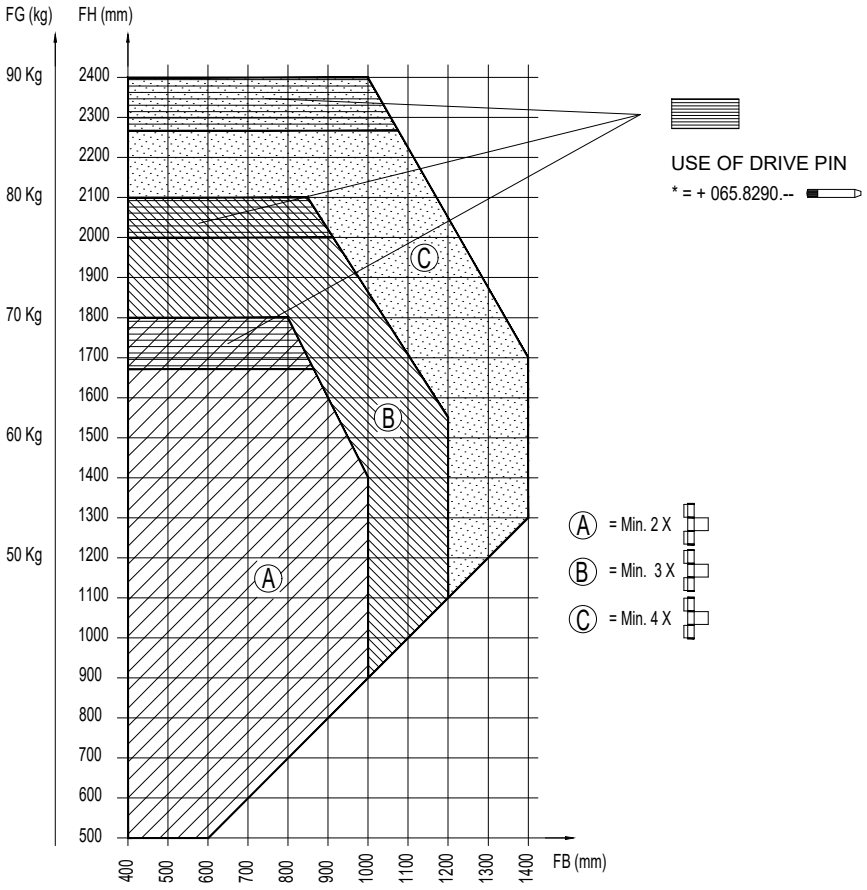
BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENANSICHT

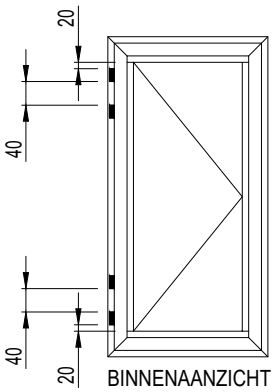
F

D2000094



NOT FOR MASTERLINE 8 & 10 / SL 38





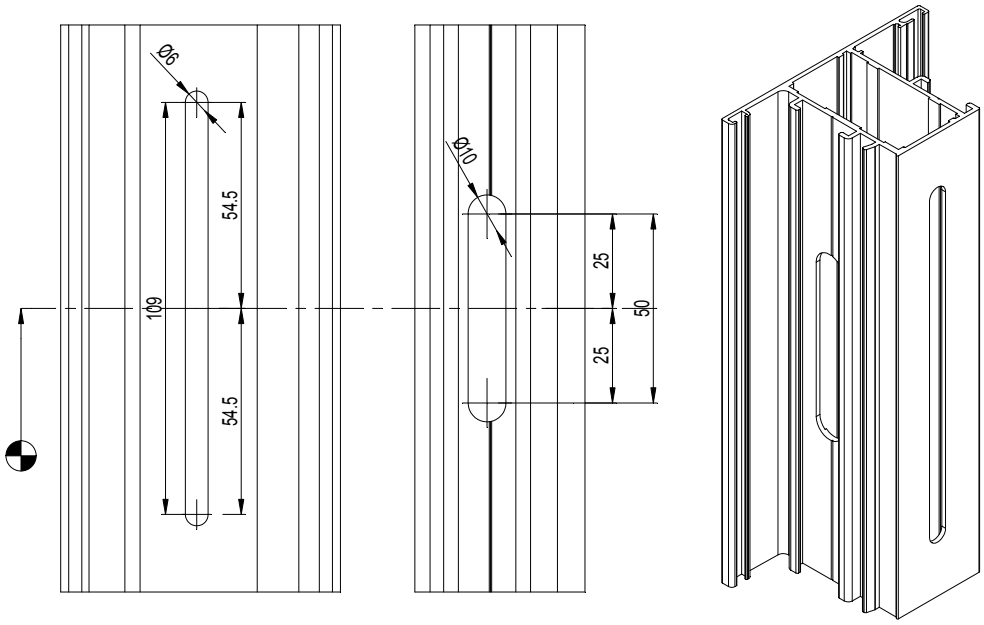
BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENANSICHT

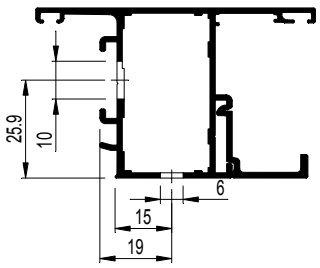
F

D2000094

ES 45Pa

UITFREZING INSTEEKSLOT FAPIM
FRAISAGE SERRUR FAPIM
MILLING INTERNAL LOCKING SYSTEM FAPIM
AUSFRAESUNG EINSTECKGETRIEBE FAPIM

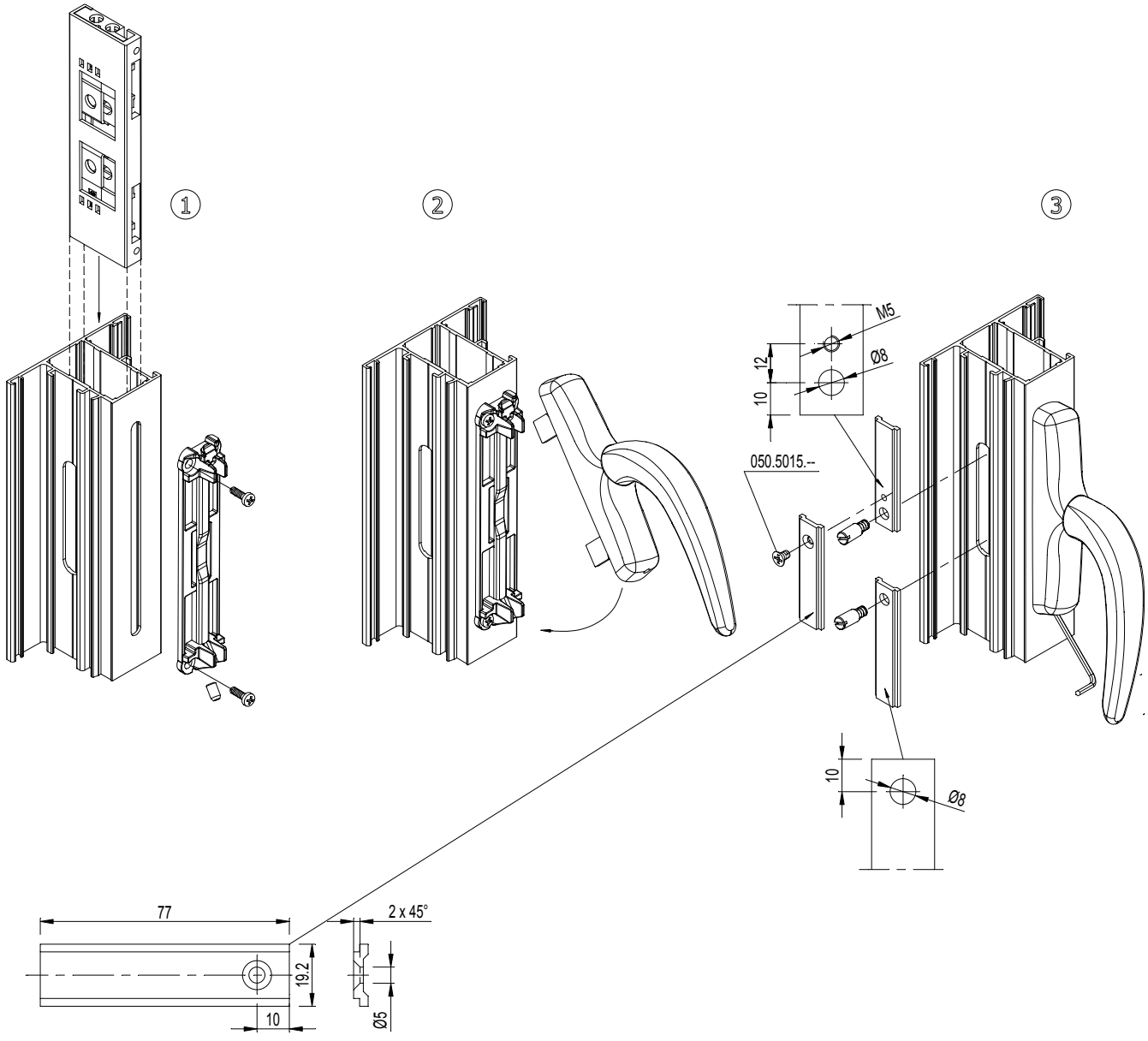




F

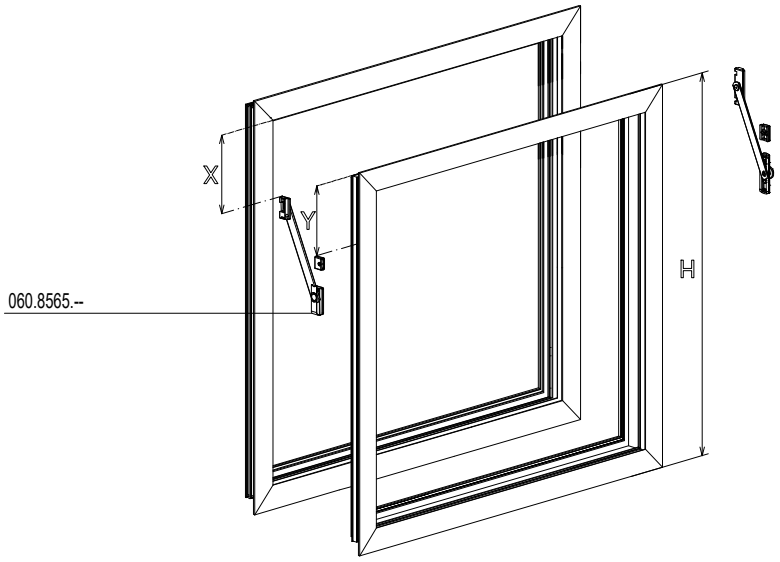
D2000088

UITFREZING INSTEEKSLOT FAPIM
FRAISAGE SERRUR FAPIM
MILLING INTERNAL LOCKING SYSTEM FAPIM
AUSFRAESUNG EINSTECKGETRIEBE FAPIM

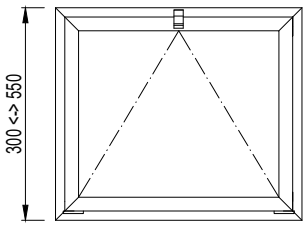


D2000088

060.8565.-- (150mm)



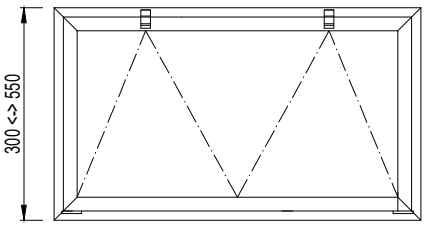
max 50 kg
in combination with spring latch
060.7054.XX



H	X	Y
300	0	100
350	45	140
450	100	195
550	150	255

FH Max. 550 mm
FB Max. 1200 mm

max 50 kg
in combination with spring latch
060.7054.XX



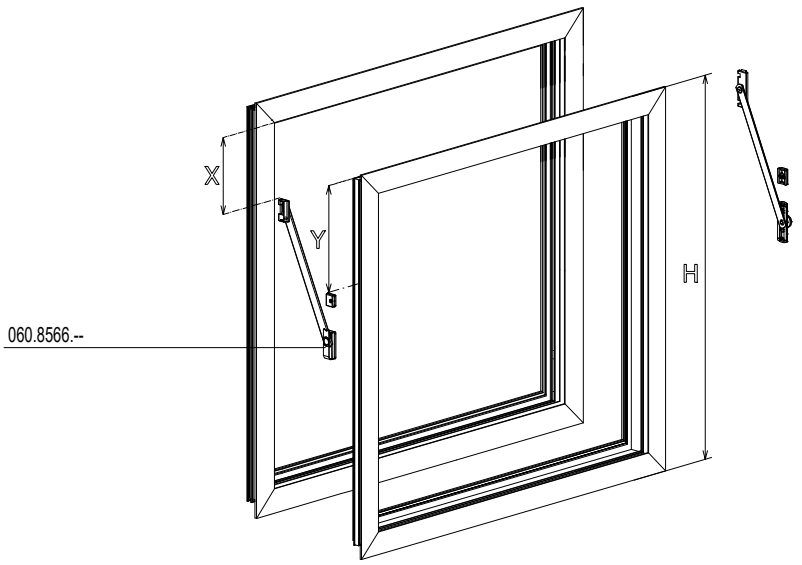
H	X	Y
300	0	100
350	45	140
450	100	195
550	150	255

FH Max. 550 mm
FB Max. 1800 mm

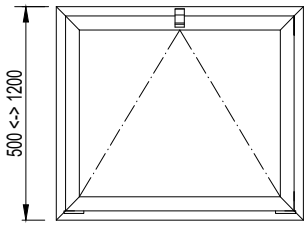
F

D0091910

060.8566.-- (220mm)



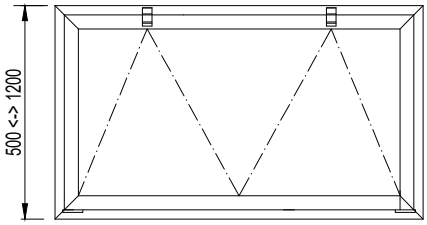
max 50 kg
in combination with spring latch
060.7054.XX



H	X	Y
500	0	170
600	60	215
800	120	285
1000	190	355
1200	275	445

FH Max. 1200 mm
FB Max. 1200 mm

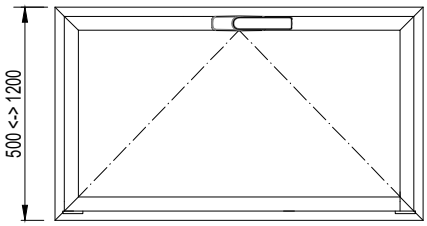
max 50 kg
in combination with spring latch
060.7054.XX



H	X	Y
500	0	170
600	60	215
800	120	285
1000	190	355
1200	275	445

FH Max. 1200 mm
FB Max. 1800 mm

max 100 kg
in combination locking points operated by a handle
see details in order tables



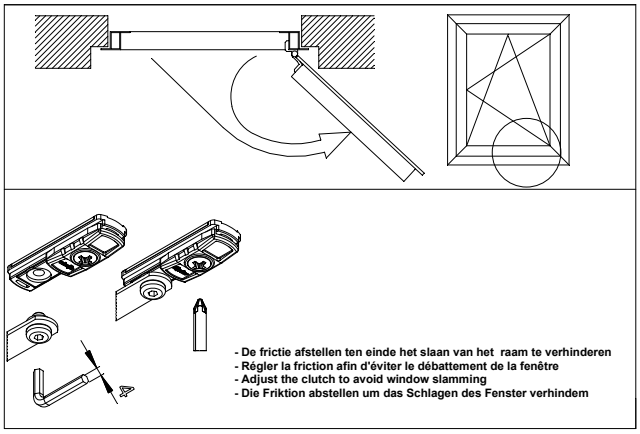
H	X	Y
500	0	170
600	60	215
800	120	285
1000	190	355
1200	275	445

FH Max. 1200 mm
FB Max. 1800 mm

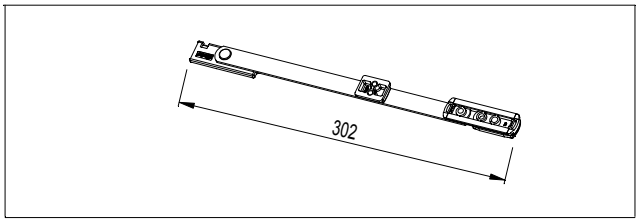
ES 45Pa

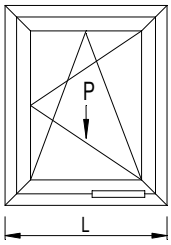
RAAMBEGRENZER FAPIM GALIPLUS 4
LIMITEUR D'OUVERTURE FAPIM GALIPLUS 4
RESTRICTOR FAPIM GALIPLUS 4
BEGRENZUNGSSCHERE FAPIM GALIPLUS 4

060.7170.--

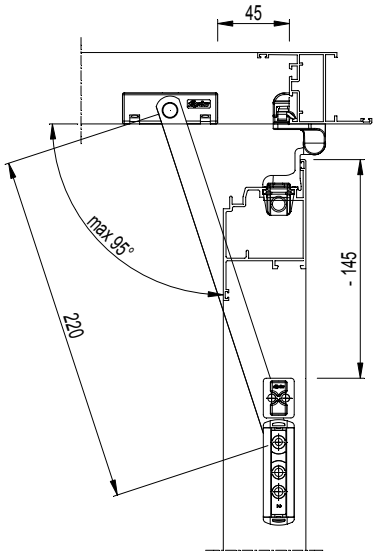


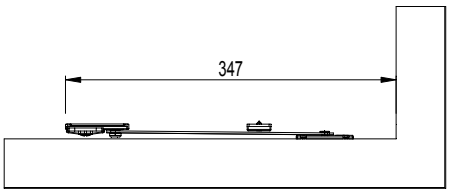
- De frictie afstellen ten einde het slaan van het raam te verhinderen
- Régler la friction afin d'éviter le débattement de la fenêtre
- Adjust the clutch to avoid window slamming
- Die Friktion abstellen um das Schlagen des Fenster verhindem

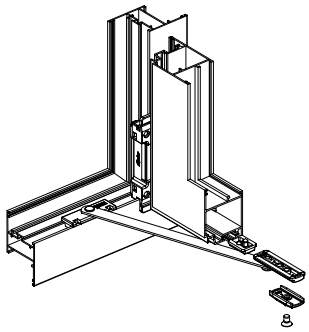


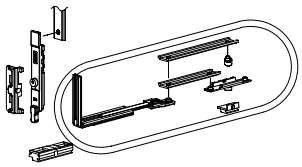


P < 50 kg 364mm ≤ L < 800mm



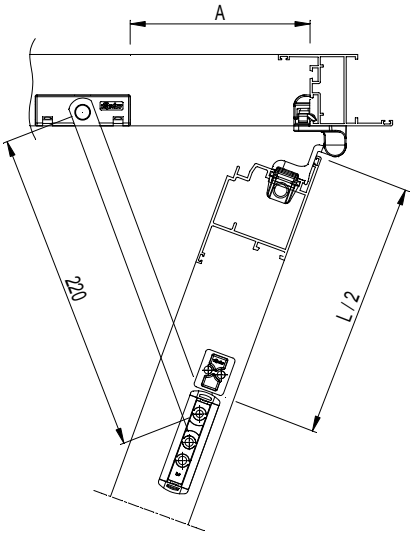


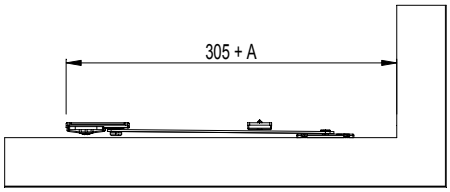


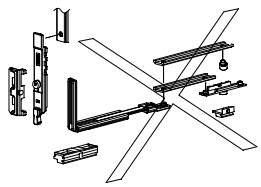


- De compatibiliteit van het sluitpunt voorzien
- Vérifier la compatibilité du point de fermeture
- Assess locking point campatibility
- Die Kompatibilität des Schlusspunkts kontrollieren

P ≥ 50 kg 500mm ≤ L < 800mm





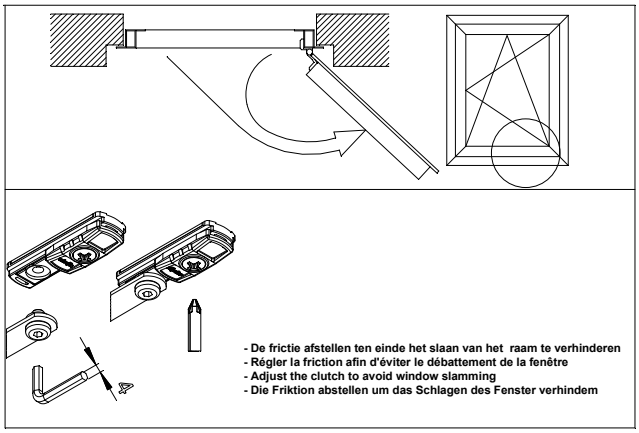


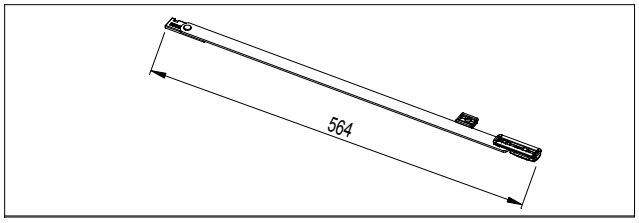
L	A
500mm ≤ L < 600mm	100
600mm ≤ L < 700mm	200
700mm ≤ L < 800mm	300

D0091909

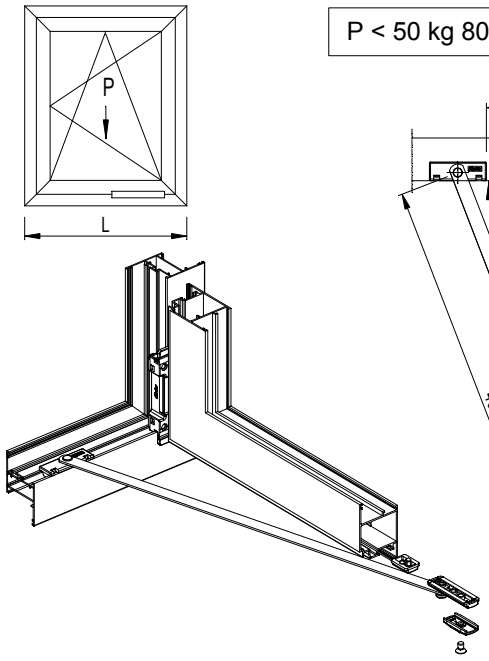
F

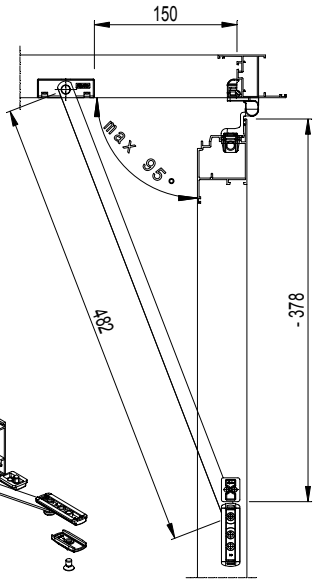
060.8810.--

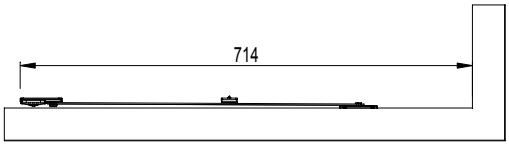


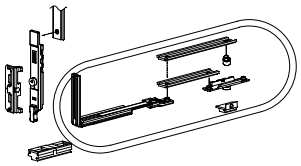


P < 50 kg 800mm ≤ L < 1700mm



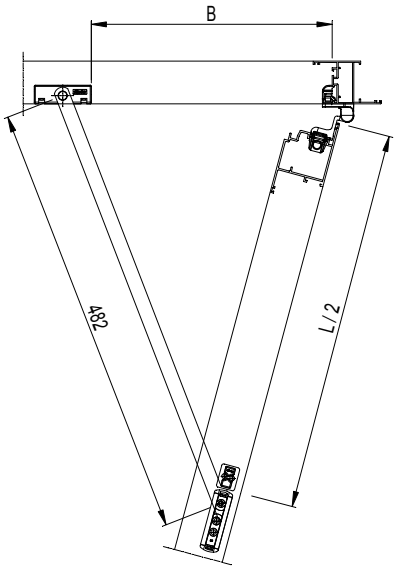


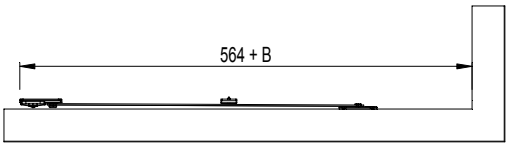


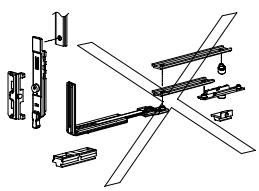


- De compatibiliteit van het sluitpunt voorzien
- Vérifier la compatibilité du point de fermeture
- Assess locking point campatibility
- Die Kompatibilität des Schlusspunkts kontrollieren

P ≥ 50 kg 800mm ≤ L < 1700mm







L	A
800mm ≤ L < 900mm	150
900mm ≤ L < 1000mm	250
1000mm ≤ L < 1100mm	350
1100mm ≤ L < 1200mm	450
1200mm ≤ L < 1400mm	550
1400mm ≤ L < 1700mm	600

F

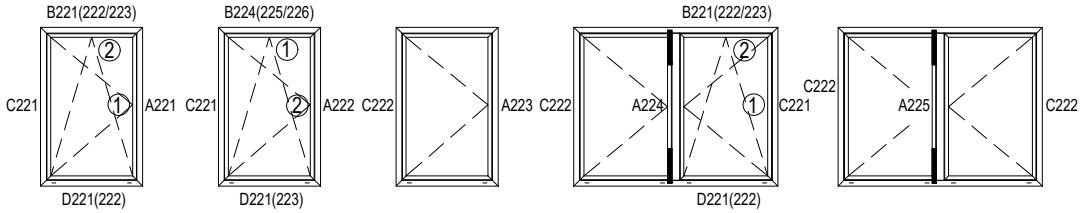
D0091909

ES 45Pa

OVERZICHT BESLAG RAMEN
APERCU ACCESSOIRES FENÊTRES
OVERVIEW ACCESSORIES WINDOWS
UEBERSICHT BESCHLAG FENSTER

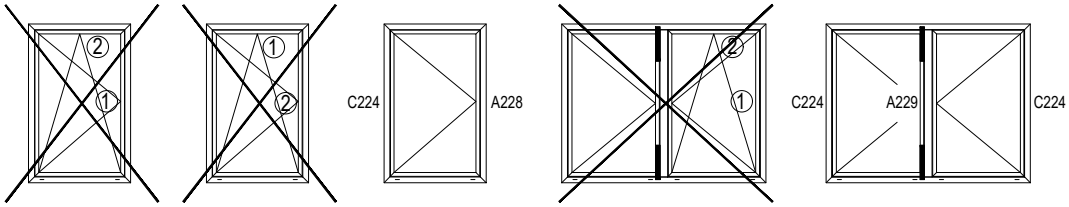
1

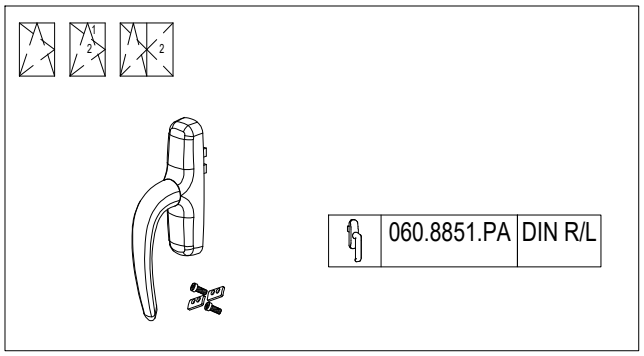
Fapim Galiplus 4 inward



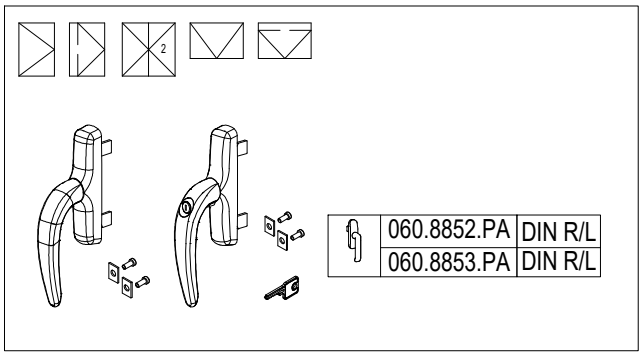
2

Fapim Galiplus 4 outward

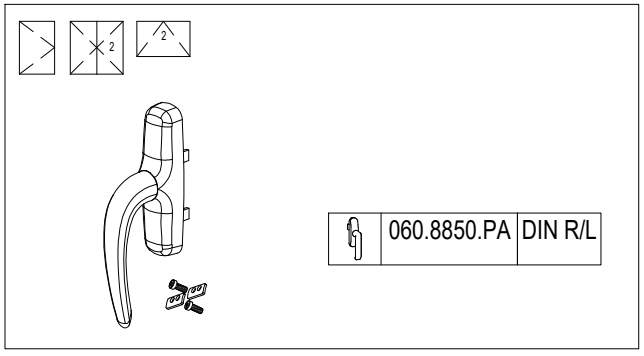




	060.8851.PA	DIN R/L



	060.8852.PA	DIN R/L
	060.8853.PA	DIN R/L



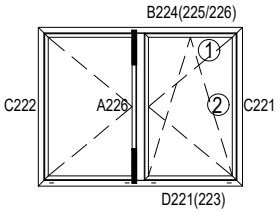
	060.8850.PA	DIN R/L

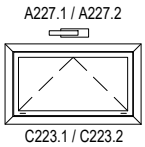
D2000080

F

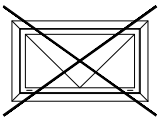
ES 45Pa

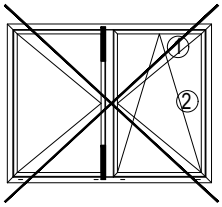
OVERZICHT BESLAG RAMEN
APERCU ACCESSOIRES FENÊTRES
OVERVIEW ACCESSORIES WINDOWS
UEBERSICHT BESCHLAG FENSTER

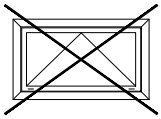


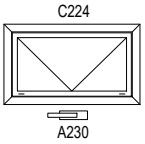


(Max 50 kg)

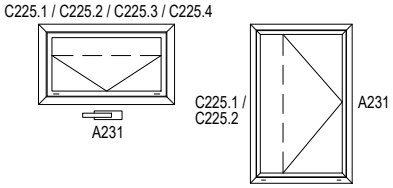








(Max 40 kg)
(Max 50 kg)
(Max 60 kg)



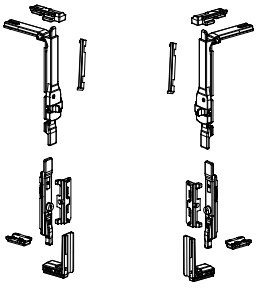
combined with GIESSE

F

D2000080

A221

DIN L DIN R



060.8819.-- 060.8809.--

060.8824.--

060.8911.-- FH>1200

060.8811.-- FH>1200

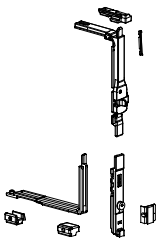
060.8911.-- FH>1800

060.8811.-- FH>1800

060.8809.-- DIN R
(ook mogelijk / aussi possible / also possible / auch möglich)
060.8819.-- DIN L
060.8824.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

A222

DIN L DIN R



060.8808.-- 060.8818.--

060.8824.--

060.8911.-- FH>1200

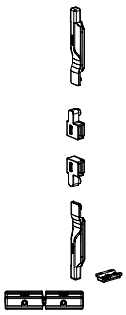
060.8811.-- FH>1200

060.8911.-- FH>1800

060.8811.-- FH>1800

060.8818.-- DIN R
(ook mogelijk / aussi possible / also possible / auch möglich)
060.8808.-- DIN L
060.8824.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

A223



060.8800.04

060.8829.04 FH>1200

060.8811.-- FH>1800

060.8911.-- FH>1800

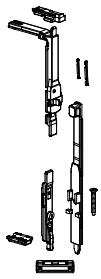
060.8811.-- FH>1800

060.8911.-- FH>1800

060.8804.04
060.8829.04 (FH>1200)
060.8811.-- (FH>1800)
060.8811.-- (FH>1800)
060.8911.-- (FH>1800)
060.8911.-- (FH>1800)

A224

DIN L DIN R



060.8822.-- 060.8812.--

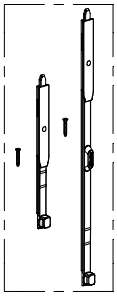
060.8824.--

060.8911.-- FH>1200

060.8811.-- FH>1200

060.8911.-- FH>1800

060.8811.-- FH>1800



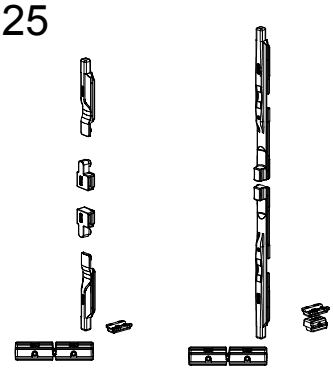
060.8813.--
060.8814.--

060.8812.-- DIN R
(ook mogelijk / aussi possible / also possible / auch möglich)
060.8822.-- DIN L
060.8824.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)
060.8813.--
060.8814.--

F

D0091918

A225



060.8800.04 060.8801.04

060.8829.04 FH>1200

060.8911.-- FH>1800

060.8811.-- FH>1800

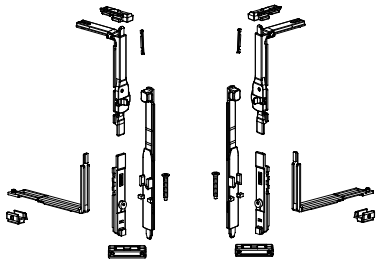
060.8911.-- FH>1800

060.8811.-- FH>1800

060.8800.04
060.8801.04
060.8929.04 (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

A226

DIN L DIN R



060.8828.-- 060.8838.--

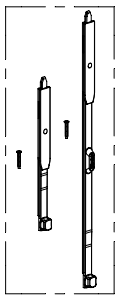
060.8824.--

060.8911.-- FH>1200

060.8811.-- FH>1200

060.8911.-- FH>1800

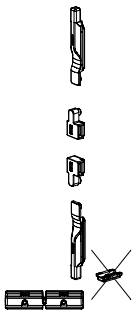
060.8811.-- FH>1800



060.8813.--
060.8814.--

060.8838.-- DIN R
(ook mogelijk / aussi possible / also possible / auch möglich)
060.8828.-- DIN L
060.8824.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)
060.8813.--
060.8814.--

A227.1



060.8800.04

060.8829.04 FH>1000

060.8811.-- FH>1800

060.8911.-- FH>1800

060.8811.-- FH>1800

060.8911.-- FH>1800

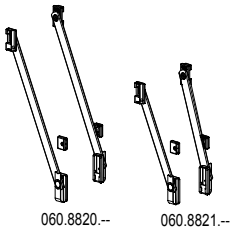
060.8804.04
060.8829.04 (FH>1000)
060.8811.-- (FH>1800)
060.8811.-- (FH>1800)
060.8911.-- (FH>1800)
060.8911.-- (FH>1800)
060.8820.-- (220 mm)
060.8821.-- (150 mm)

060.8820.-- (220 mm) 060.8821.-- (150 mm)

A227.2

060.7054.XX

060.7054.XX FB>1000



060.8820.-- (220 mm) 060.8821.-- (150 mm)

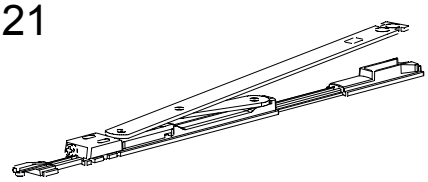
060.7054.XX
060.7054.XX (FB>1000)
060.8820.-- (220 mm)
060.8821.-- (150 mm)

F

D0091918

INHOUD FAPIM GALIPLUS 4 INWARD VERPAKKING/SET
CONTENU FAPIM GALIPLUS 4 INWARD CONDIT./SET
CONTENT FAPIM GALIPLUS 4 INWARD PACKING/SET
INHALT FAPIM GALIPLUS 4 INWARD VERPACKUNG/SET

B221

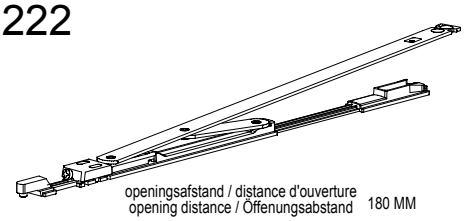


openingsafstand / distance d'ouverture
opening distance / Öffenungsabstand 180 MM

060.8905.-- (schaar / compas / friction stays / Ausstellschere) DK 450≤FB≤750

060.8905.--

B222

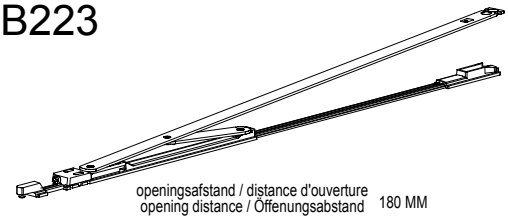


openingsafstand / distance d'ouverture
opening distance / Öffenungsabstand 180 MM

060.8906.-- (schaar / compas / friction stays / Ausstellschere) DK 562≤FB≤1400

060.8906.--

B223

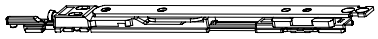


openingsafstand / distance d'ouverture
opening distance / Öffenungsabstand 180 MM

060.8907.-- (schaar / compas / friction stays / Ausstellschere) DK 816≤FB≤1700

060.8907.--

B224



openingsafstand / distance d'ouverture
opening distance / Öffenungsabstand 180 MM

060.8920.-- (schaar / compas / friction stays / Ausstellschere) KD 402≤FB≤750

060.8920.--

B225

openingsafstand / distance d'ouverture
opening distance / Öffenungsabstand 180 MM

060.8921.-- (schaar / compas / friction stays / Ausstellschere) KD 750≤FB≤1200

060.8921.--

B226

openingsafstand / distance d'ouverture
opening distance / Öffenungsabstand 180 MM

060.8922.-- (schaar / compas / friction stays / Ausstellschere) KD 1200≤FB≤1600

060.8922.--

F

D0091919

C221

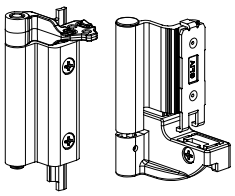
060.8911.-- FH >1800 (deel van / partie de / part of / Teil des D101)

060.8911.-- FH >1200 (deel van / partie de / part of / Teil des D101)

060.8811.-- FH >1800 (deel van / partie de / part of / Teil des D101)

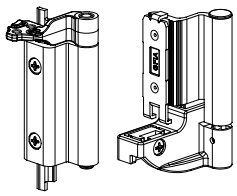
060.8811.-- FH >1200 (deel van / partie de / part of / Teil des D101)

DIN L



060.8817.XX

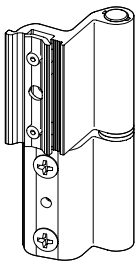
DIN R



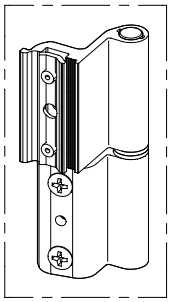
060.8807.XX

060.8807.XX DIN R
(ook mogelijk / aussi possible / also possible / auch möglich)
060.8817.XX DIN L
060.8911.-- FH >1800 (deel van / partie de / part of / Teil des D101)
060.8911.-- FH >1200 (deel van / partie de / part of / Teil des D101)
060.8811.-- FH >1800 (deel van / partie de / part of / Teil des D101)
060.8811.-- FH >1200 (deel van / partie de / part of / Teil des D101)

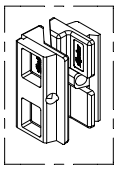
C222 (<80KG)



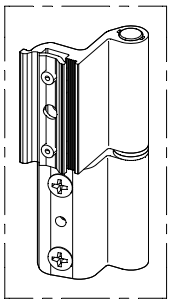
065.8460.XX



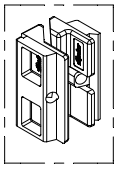
065.8460.XX FB>900 of / ou / or / order FH >1700



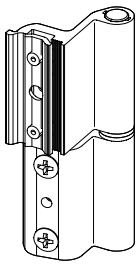
060.8803.-- (FH >1200)



065.8460.XX FB>1050 of / ou / or / order FH >2050



060.8803.-- (FH >1800)



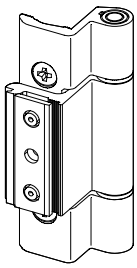
065.8460.XX

065.8460.XX
065.8460.XX FB>900 of / ou / or / order FH >1700
065.8460.XX FB>1050 of / ou / or / order FH >2050
060.8803.-- (FH >1200)
060.8803.-- (FH >1800)

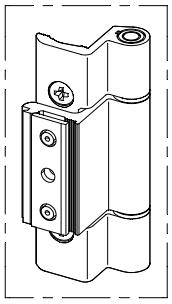
F

D0091920

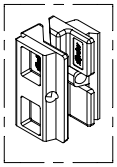
C222 (<90KG)



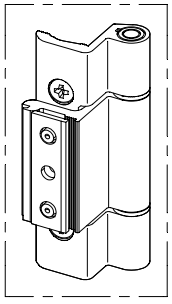
065.8475.XX



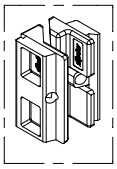
065.8475.XX FB>1000 of / ou / or / order FH >1800



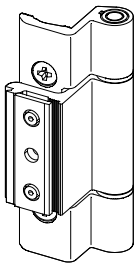
060.8803.-- (FH >1200)



065.8475.XX FB>1000 en / aussi / and / und FH>1800 of / ou / or / order FH >2100



060.8803.-- (FH >1800)



065.8475.XX

065.8475.XX
065.8475.XX FB>1000 of / ou / or / order FH >1800
065.8475.XX FB>1000 en / aussi / and / und FH>1800 of / ou / or / order FH >2100
060.8803.-- (FH >1200)
060.8803.-- (FH >1800)

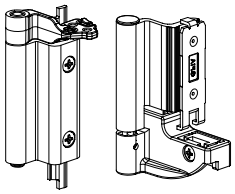
C222 (<110KG)

060.8804.--

060.8803.-- (FH>1200)

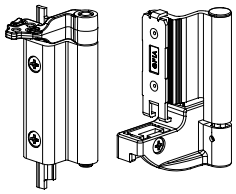
060.8803.-- (FH>1800)

DIN L



060.8817.XX

DIN R



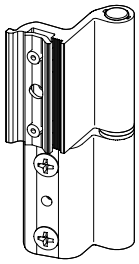
060.8807.XX

060.8807.XX DIN R
(ook mogelijk / aussi possible / also possible / auch möglich)
060.8817.XX DIN L
060.8804.--
060.8803.-- (FH>1200)
060.8803.-- (FH>1800)

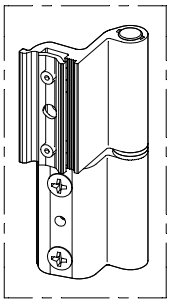
F

D0091923

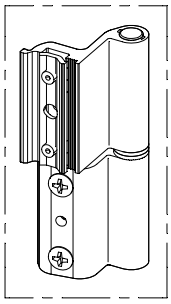
C223.1 (<80KG)



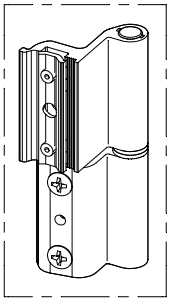
065.8460.XX



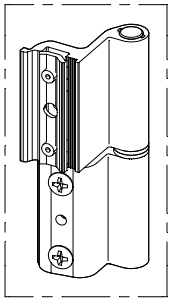
065.8460.XX FB>1000



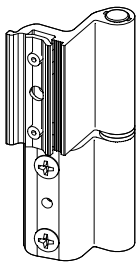
065.8460.XX FB>1800



065.8460.XX FB>1400



065.8460.XX FB>2100



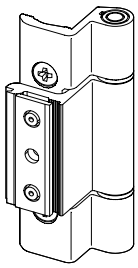
065.8460.XX

065.8460.XX
065.8460.XX FB>1000
065.8460.XX FB>1400
065.8460.XX FB>1800
065.8460.XX FB>2100

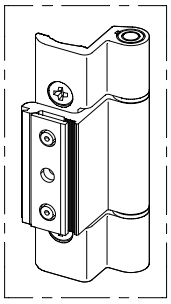
F

D0091923

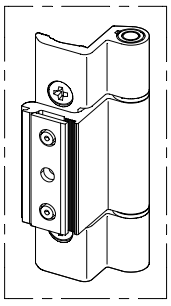
C223.1 (<90KG)



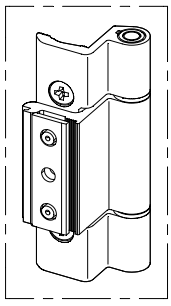
065.8475.XX



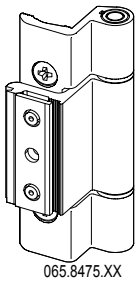
065.8475.XX FB>1200



065.8475.XX FB>1800



065.8475.XX FB>2100



065.8475.XX

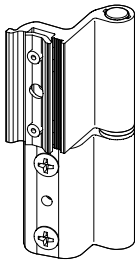
065.8475.XX
065.8475.XX FB>1200
065.8475.XX FB>1800
065.8475.XX FB> 2100

F

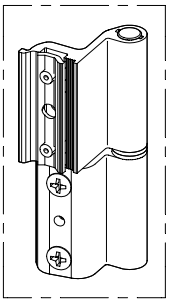
D0091924

INHOUD FAPIM GALIPLUS 4 INWARD VERPAKKING/SET
CONTENU FAPIM GALIPLUS 4 INWARD CONDIT./SET
CONTENT FAPIM GALIPLUS 4 INWARD PACKING/SET
INHALT FAPIM GALIPLUS 4 INWARD VERPACKUNG/SET

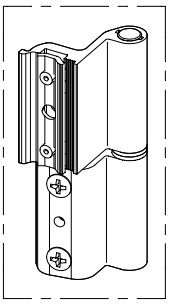
C223.2 (<80KG)



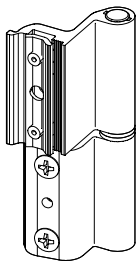
065.8460.XX



065.8460.XX FB>1000



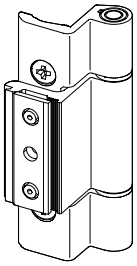
065.8460.XX FB>1400



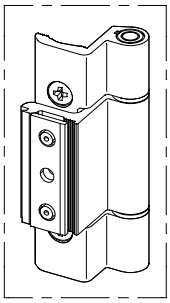
065.8460.XX

065.8460.XX
065.8460.XX FB>1000
065.8460.XX FB>1400

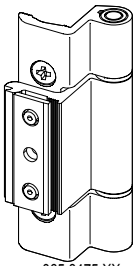
C223.2 (<90KG)



065.8475.XX



065.8475.XX FB>1200



065.8475.XX

065.8475.XX
065.8475.XX FB>1200

F

D0091924

INHOUD FAPIM GALIPLUS 4 INWARD VERPAKKING/SET
CONTENU FAPIM GALIPLUS 4 INWARD CONDIT./SET
CONTENT FAPIM GALIPLUS 4 INWARD PACKING/SET
INHALT FAPIM GALIPLUS 4 INWARD VERPACKUNG/SET

Reynaers Aluminium

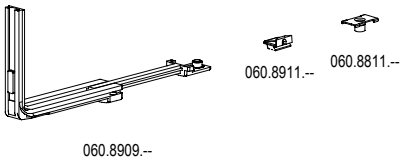
D0091925

D221

FH > 1200

060.8908.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

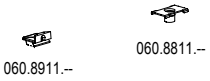
D222



FB > 1200

060.8909.--
060.8911.--
060.8811.--
060.8911.--

D223



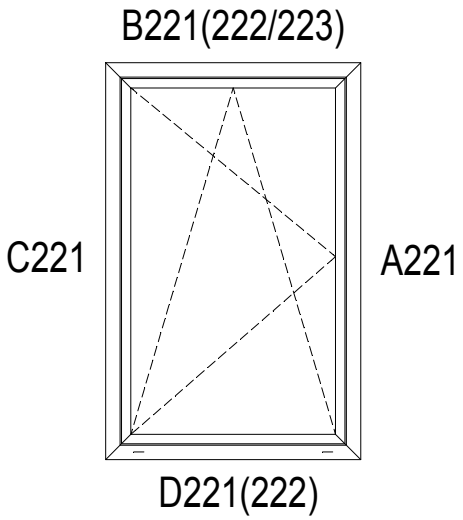
FB > 1200

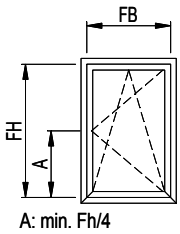
060.8911.--
060.8911.--
060.8811.--

F

D0091925

FAPIM GALIPLUS 4 INWARD





A: min. Fh/4

TUTI inward DIN R

FH \ FB	402-750		751-1200		1201-1700	
450-699	060.8851.PA	1				
	060.8809.--	1				
	060.8824.--	1				
	060.8905.--	1				
	060.8807.XX	1				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8809.--	1	060.8809.--	1	060.8809.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8907.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
					060.8909.--	1
					060.8811.--	1
					060.8911.--	2
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8809.--	1	060.8809.--	1	060.8809.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8907.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	2
	060.8811.--	2	060.8811.--	2	060.8811.--	3
	060.8911.--	2	060.8911.--	2	060.8911.--	4
1801-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8809.--	1	060.8809.--	1	060.8809.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8907.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	2
	060.8811.--	4	060.8811.--	4	060.8811.--	5
	060.8911.--	4	060.8911.--	4	060.8911.--	6

Art.	FB min	FB max	FH min	FH max	FG max
060.8905.--	402	750	450	2400	110
060.8906.--	562	1400	700	2600	110
060.8907.--	816	1700	700	2600	110

TUTI inward DIN L

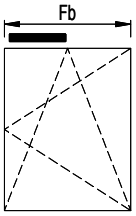
FH \ FB	402-750		751-1200		1201-1700	
450-699	060.8851.PA	1				
	060.8819.--	1				
	060.8824.--	1				
	060.8905.--	1				
	060.8817.XX	1				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8819.--	1	060.8819.--	1	060.8819.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8907.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
					060.8909.--	1
					060.8811.--	1
					060.8911.--	2
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8819.--	1	060.8819.--	1	060.8819.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8907.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	2
	060.8811.--	2	060.8811.--	2	060.8811.--	3
	060.8911.--	2	060.8911.--	2	060.8911.--	4
1801-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8819.--	1	060.8819.--	1	060.8819.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8907.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	2
	060.8811.--	4	060.8811.--	4	060.8811.--	5
	060.8911.--	4	060.8911.--	4	060.8911.--	6

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange	
060.8823.--/ 060.8825.-- : use with aluminium rods	
060.8806.-- / 060.8805.-- : industrial packing (50 in 1 bag) equivalent of 060.8906.--/060.8905	
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1700

D2000097

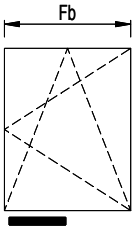
Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange



bovenkant / pos. Supérieure / top / Oben

A: MIN. 1/4Fh

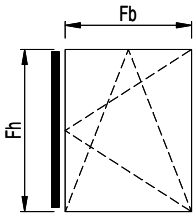
Fb		
402 - 750	PA / AL	FB - 372
751 - 1200	PA / AL	FB - 496
1201 - 1700	PA / AL	FB - 750



onderkant / pos. inférieure / bottom / Unten

A: MIN. 1/4Fh

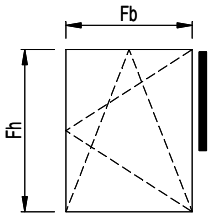
Fb		
1201 - 1700	PA	FB/2 - 154
1201 - 1700	AL	FB/2 - 170



volledige sluitzijde / coté de fermeture complete / total locking side / komplette Verschliesseite

A: MIN. 1/4Fh

Fh		
450 - 2400	PA / AL	Fh - 296



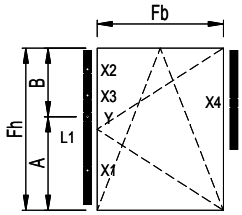
scharnierzijde / coté de charnieres / hinge side / Bandseite

A: MIN. 1/4Fh

Fh		
1201 - 1800	PA	FH/2 - 162
1801 - 2400	PA	2/3 FH - 162

Fh		
1201 - 1800	AL	FH/2 - 173
1801 - 2400	AL	2/3 FH - 173

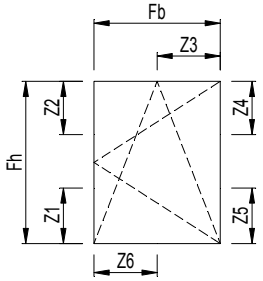
Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten



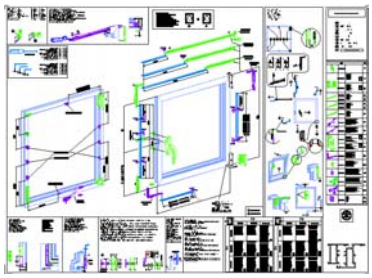
A: MIN. 1/4Fh

X / Y	Fh		
Y	450 - 2400	PA / AL	A - 126
X3	1201 - 1800	PA / AL	(A - 126) + 50
X1	1801 - 2400	PA / AL	L1 - 423
X2	1801 - 2400	PA / AL	L1 - 523
X4	1801 - 2400	PA / AL	Fh/3 - 183

kader / cadre / frame / Blendrahmen



Z		
Z1	FH ≤ 1800	A + 52
	FH ≥ 1800	551
Z2	FH ≥ 1800	659
Z3	FB ≥ 1200 (060.8906.--)	412
	FB ≥ 1200 (060.8907.--)	665
Z4	FH ≥ 1800	FH/3 - 16
Z5	FH ≤ 1800	FH/2 - 16
	FH ≥ 1800	FH/3 - 16
Z6	FB ≥ 1200	FB/2 - 16



MONTAGE TEKENINGEN KUNNEN GEDOWNLOAD WORDEN VAN https://extranet.reynaers.com: Products > Windows & Doors > Hardware
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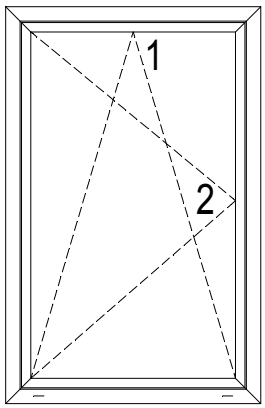
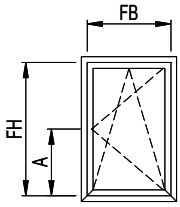
FAPIM GALIPLUS 4 INWARD

B224(225/226)



C221 A222

D221(223)



A: min. Fh/4

TITU inward DIN L

FH \ FB	402-750		751-1200		1201-1600	
500-699	060.8851.PA	1				
	060.8808.--	1				
	060.8824.--	1				
	060.8920.--	1				
	060.8817.XX	1				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8808.--	1	060.8808.--	1	060.8808.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8922.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
					060.8811.--	1
					060.8911.--	2
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8808.--	1	060.8808.--	1	060.8808.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8922.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	3
	060.8911.--	2	060.8911.--	2	060.8911.--	4
1801-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8808.--	1	060.8808.--	1	060.8808.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8922.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	5
	060.8911.--	4	060.8911.--	4	060.8911.--	6

TITU inward DIN R

FH \ FB	402-750		751-1200		1201-1600	
500-699	060.8851.PA	1				
	060.8818.--	1				
	060.8824.--	1				
	060.8920.--	1				
	060.8807.XX	1				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8818.--	1	060.8818.--	1	060.8818.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8922.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
					060.8811.--	1
					060.8911.--	2
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8818.--	1	060.8818.--	1	060.8818.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8922.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	3
	060.8911.--	2	060.8911.--	2	060.8911.--	4
1801-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8818.--	1	060.8818.--	1	060.8818.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8922.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	5
	060.8911.--	4	060.8911.--	4	060.8911.--	6

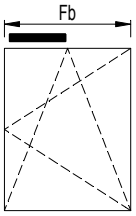
Art.	FB min	FB max	FH min	FH max	FG max
060.8920.--	402	750	500	2400	110
060.8921.--	750	1200	700	2400	110
060.8922.--	1200	1600	700	2400	110

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange	
060.8823.--/ 060.8825.-- : use with aluminium rods	
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1600

D2000098

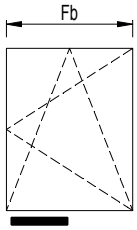
Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange



bovenkant / pos. Supérieure / top / Oben

A: MIN. 1/4Fh

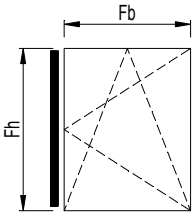
Fb		
402 - 750	PA / AL	FB - 372
751 - 1200	PA / AL	FB - 496
1201 - 1600	PA / AL	FB - 750



onderkant / pos. inférieure / bottom / Unten

A: MIN. 1/4Fh

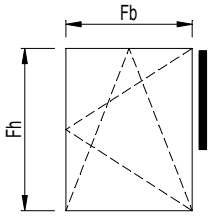
Fb		
1201 - 1600	PA	FB/2 - 154
1201 - 1600	AL	FB/2 - 170



volledige sluitzijde / coté de fermeture complete / total locking side / komplette Verschliesseite

A: MIN. 1/4Fh

Fh		
500 - 2400	PA / AL	Fh - 296



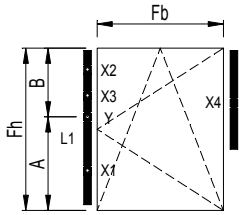
scharnierzijde / coté de charnieres / hinge side / Bandseite

A: MIN. 1/4Fh

Fh		
1201 - 1800	PA	FH/2 - 162
1801 - 2400	PA	2/3 FH - 162

Fh		
1201 - 1800	AL	FH/2 - 173
1801 - 2400	AL	2/3 FH - 173

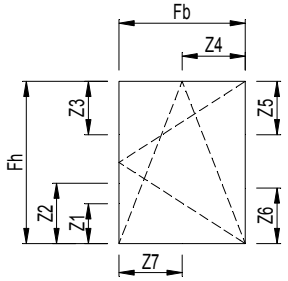
Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten



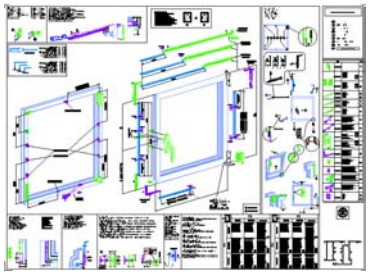
A: MIN. 1/4Fh

X / Y	Fh		
Y	500 - 2400	PA / AL	A - 126
X3	1201 - 1800	PA / AL	(A - 126) + 50
X1	1801 - 2400	PA / AL	L1 - 423
X2	1801 - 2400	PA / AL	L1 - 523
X4	1801 - 2400	PA / AL	Fh/3 - 183

kader / cadre / frame / Blendrahmen



Z		
Z1		77
Z2	FH ≤ 1800	A + 52
	FH ≥ 1800	551
Z3	FH ≥ 1800	659
Z4	FB ≥ 1200 (060.8906.--)	412
	FB ≥ 1200 (060.8907.--)	665
Z5	FH ≥ 1800	FH/3 - 16
Z6	FH ≤ 1800	FH/2 - 16
	FH ≥ 1800	FH/3 - 16
Z7	FB ≥ 1200	FB/2 - 16



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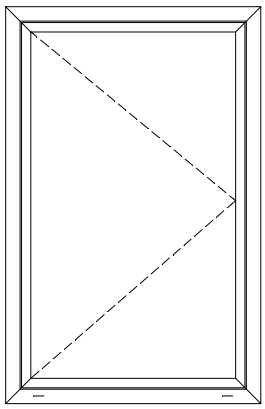
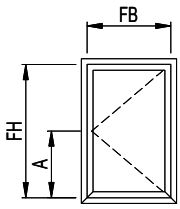
FAPIM GALIPLUS 4 INWARD

C222



A223



A: min. Fh/4

Side Hung up to 80 KG (2 part hinge) (*)

FH \ FB	400-900		901-1050		1051-1200	
500-1200	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
1201-1700	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8829.04	1/2	060.8829.04	1/2	060.8829.04	1/2
1701-1800	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8829.04	1/2	060.8829.04	1/2	060.8829.04	1/2
1801-2050	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
2051-2400	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2

Side Hung up to 90 KG (3 part hinge) (*)

FH \ FB	400-1000		1001-1200	
500-1200	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	065.8475.XX	2	065.8475.XX	2
1201-1800	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	065.8475.XX	2	065.8475.XX	3
	060.8803.--	1	060.8803.--	1
	060.8829.04	1/2	060.8829.04	1/2
1801-2100	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	065.8475.XX	3	065.8475.XX	4
	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
2101-2400	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	065.8475.XX	4	065.8475.XX	4
	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange	
pen 065.8290.-- for 065.8460.XX or 065.8475.XX	
060.8823.-- : use with aluminium rods	
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 400≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

(*) = concerning both the max window weight and dimension it is very important to refer to the capacity load diagram of the hinge used, cause this two parameters could change from case to case.

D2000099

Side Hung up to 110 KG (TUTI hinge) DIN R

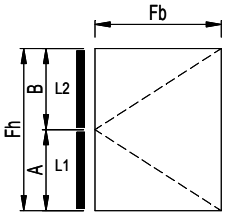
FH \ FB	400-1200	
450-1200	060.8850.PA	1
	060.8800.04	1
	060.8807.XX	1
	060.8804.--	1
1201-1800	060.8850.PA	1
	060.8800.04	1
	060.8807.XX	1
	060.8804.--	1
	060.8803.--	1
	060.8829.04	1/2
1801-2400	060.8850.PA	1
	060.8800.04	1
	060.8807.XX	1
	060.8804.--	1
	060.8803.--	2
	060.8811.--	2
	060.8911.--	2

Side Hung up to 110 KG (TUTI hinge) DIN L

FH \ FB	400-1200	
450-1200	060.8850.PA	1
	060.8800.04	1
	060.8817.XX	1
	060.8804.--	1
1201-1800	060.8850.PA	1
	060.8800.04	1
	060.8817.XX	1
	060.8804.--	1
	060.8803.--	1
	060.8829.04	1/2
1801-2400	060.8850.PA	1
	060.8800.04	1
	060.8817.XX	1
	060.8804.--	1
	060.8803.--	2
	060.8811.--	2
	060.8911.--	2

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 2 delige en 3 delige scharnieren / pour 2 partie et 3 partie charnières / for 2 part and 3 part hinges / fur 2-teilige und 3-teilige Bänder



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

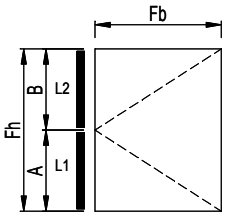
Fh		
500 - 2400	PA / AL	L2 = B - 118

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

Fh		
500 - 2400	PA / AL	L1 = A - 118

Voor DK - KD scharnieren / pour BO - OB charnières / For TUTI - TITU hinges / fur DK - KD Bänder



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

Fh		
450 - 2400	PA / AL	L2 = B - 118

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

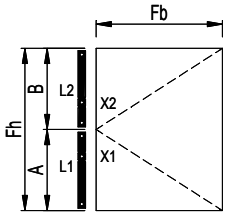
Fh		
450 - 2400	PA / AL	L1 = A - 118

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fh ≤ 1800

SLUITPUNT OP KRUKHOOGTE / POINT DE FERMETURE SUR LES HAUTEUR DU POIGNEE / LOCKING POINT AT HANDLE HEIGHT / VERSCHLUSSPUNKT AUF DRUCKERHOHE

A<>FH/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE

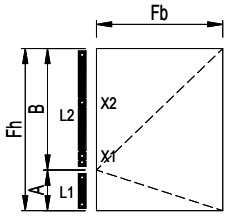


1/3Fh < A < 2/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	A - 1/3Fh - 38.1
X2	PA / AL	2/3Fh - A - 38.1

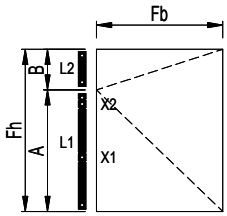
F

D2000143



A < 1/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	1/3Fh - A - 38.1
X2	PA / AL	2/3Fh - A - 38.1



A > 2/3Fh 1801 ≤ Fh ≤ 2400

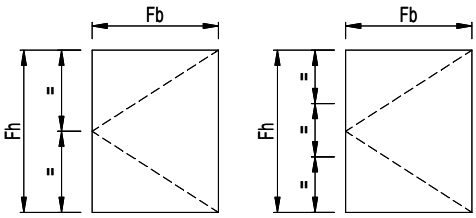
X		
X1	PA / AL	A - 1/3Fh - 38.1
X2	PA / AL	A - 2/3Fh - 38.1

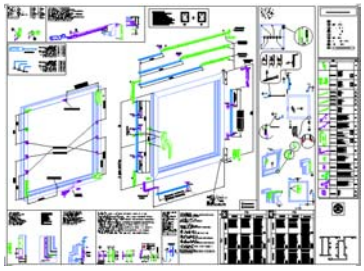
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fh	REYNAERS REF.	
1201 ≤ Fh ≤ 1800	060.8803.--	FH/2
1801 ≤ Fh ≤ 2400	060.8803.--	FH/3

kader / cadre / frame / Blendrahmen

Fh	
1201 ≤ Fh ≤ 1800	FH / 2
1801 ≤ Fh ≤ 2400	FH / 3





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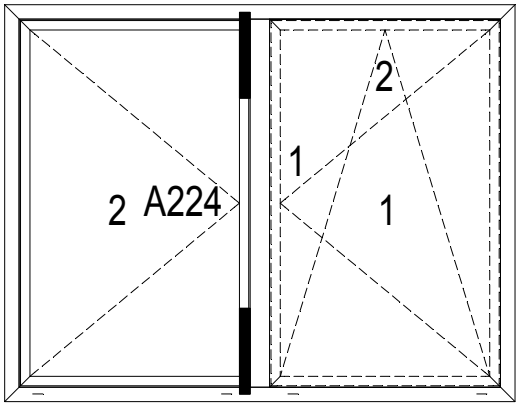
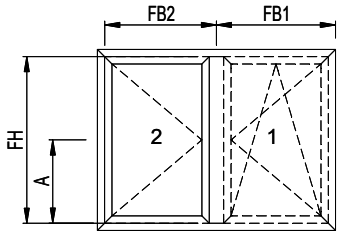
FAPIM GALIPLUS 4 INWARD

B221(222/223)



D221(222)



A: min. Fh/4

DC-TUTI inward DIN L (2 part hinge)

FH \ FB	402-750		751-900		901-1050		1051-1200	
450-699	060.8851.PA	1						
	060.8822.--	1						
	060.8824.--	1						
	060.8905.--	1						
	060.8817.XX	1						
	065.8460.XX	2						
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
1201-1700	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1701-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2050	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4
2051-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange	
060.8823.--/ 060.8825.-- : use with aluminium rods	
060.8806.-- / 060.8805.-- : industrial packing (50 in 1 bag) equivalent of 060.8906.--/060.8905	
pen 065.8290.-- for 065.8460.XX or 065.8475.XX	
Use Friction Stay 060.8907.-- : FB = 1200-1700	
optional latch small: 060.8813.-- (220mm)	
optional latch big: 060.8814.-- (400mm)	
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

F

D2000146

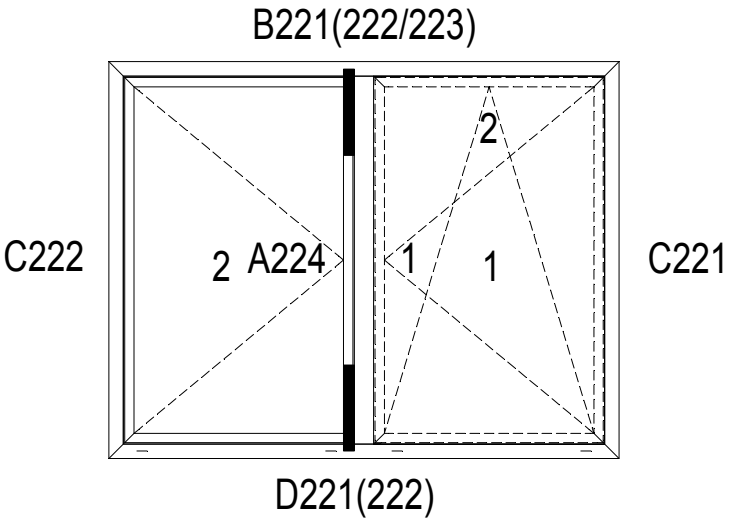
DC-TUTI inward DIN R (2 part hinge)

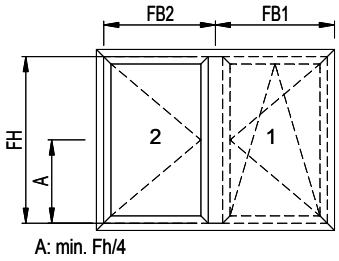
FH \ FB	402-750		751-900		901-1050		1051-1200	
450-699	060.8851.PA	1						
	060.8812.--	1						
	060.8824.--	1						
	060.8905.--	1						
	060.8807.XX	1						
	065.8460.XX	2						
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
1201-1700	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1701-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2050	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4
2051-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4

DC-TUTI inward DIN L (3 part hinge)

FH \ FB	402-750		751-1000		1001-1200	
450-699	060.8851.PA	1				
	060.8822.--	1				
	060.8824.--	1				
	060.8905.--	1				
	060.8817.XX	1				
	065.8475.XX	2				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2100	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	3	065.8475.XX	3	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4
2101-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	4	065.8475.XX	4	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4

FAPIM GALIPLUS 4 INWARD





DC-TUTI inward DIN R (3 part hinge)

FH \ FB	402-750		751-1000		1001-1200	
450-699	060.8851.PA	1				
	060.8812.--	1				
	060.8824.--	1				
	060.8905.--	1				
	060.8807.XX	1				
	065.8475.XX	2				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2100	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	3	065.8475.XX	3	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4
2101-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	4	065.8475.XX	4	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4

Art.	FB min	FB max	FH min	FH max
060.8905.--	402	750	450	2400
060.8906.--	562	1400	700	2600
060.8907.--	816	1700	700	2600

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange	
060.8823.--/ 060.8825.-- : use with aluminium rods	
060.8806.-- / 060.8805.-- : industrial packing (50 in 1 bag) equivalent of 060.8906.--/060.8905	
pen 065.8290.-- for 065.8475.XX	
Use Friction Stay 060.8907.-- : FB = 1201-1700	
optional latch small: 060.8813.-- (220mm)	
optional latch big: 060.8814.-- (400mm)	
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

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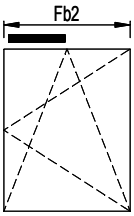
DC-TUTI up to 110KG DIN L (TUTI hinge)

FH \ FB	402-750		751-1200	
450-699	060.8851.PA	1		
	060.8822.--	1		
	060.8824.--	1		
	060.8905.--	1		
	060.8817.XX	1		
	060.8807.XX	1		
	060.8804.--	1		
700-1200	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1
	060.8807.XX	1	060.8807.XX	1
	060.8804.--	1	060.8804.--	1
1201-1800	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1
	060.8807.XX	1	060.8807.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
1801-2400	060.8851.PA	1	060.8851.PA	1
	060.8822.--	1	060.8822.--	1
	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1
	060.8817.XX	1	060.8817.XX	1
	060.8807.XX	1	060.8807.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4

DC-TUTI up to 110KG DIN R (TUTI hinge)

FH \ FB	402-750		751-1200	
450-699	060.8851.PA	1		
	060.8812.--	1		
	060.8824.--	1		
	060.8905.--	1		
	060.8807.XX	1		
	060.8817.XX	1		
	060.8804.--	1		
700-1200	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1
	060.8817.XX	1	060.8817.XX	1
	060.8804.--	1	060.8804.--	1
1201-1800	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1
	060.8817.XX	1	060.8817.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
1801-2400	060.8851.PA	1	060.8851.PA	1
	060.8812.--	1	060.8812.--	1
	060.8824.--	1	060.8824.--	1
	060.8905.--	1	060.8906.--	1
	060.8807.XX	1	060.8807.XX	1
	060.8817.XX	1	060.8817.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4

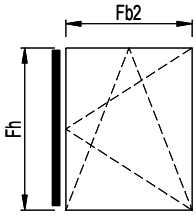
Regeltringels / tringles de réglage / adjustment rods / Regulierstange



bovenkant / pos. Supérieure / top / Oben

A: MIN. 1/4Fh

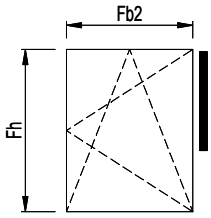
Fb		
402 - 750	PA / AL	FB - 372
751 - 1200	PA / AL	FB - 496



volledige sluitzijde / coté de fermeture complete / total locking side / komplette Verschliesseite

A: MIN. 1/4Fh

Fh		
450 - 2400	PA / AL	Fh - 296



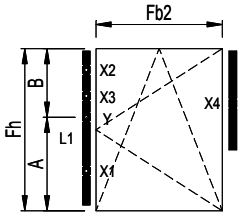
scharnierzijde / coté de charnieres / hinge side / Bandseite

A: MIN. 1/4Fh

Fh		
1201 - 1800	PA	FH/2 - 162
1801 - 2400	PA	2/3 FH - 162

Fh		
1201 - 1800	AL	FH/2 - 173
1801 - 2400	AL	2/3 FH - 173

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten



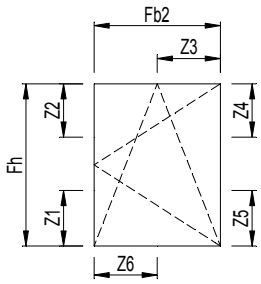
A: MIN. 1/4Fh

X / Y	Fh		
Y	450 - 2400	PA / AL	A - 126
X3	1201 - 1800	PA / AL	(A - 126) + 50
X1	1801 - 2400	PA / AL	L1 - 423
X2	1801 - 2400	PA / AL	L1 - 523
X4	1801 - 2400	PA / AL	Fh/3 - 183

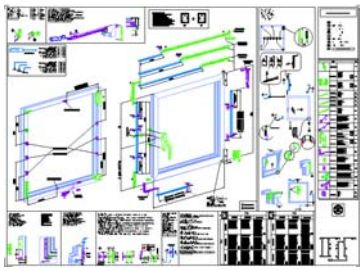
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fh	REYNAERS REF.	
1201 ≤ Fh ≤ 1800	060.8803.--	FH/2
1801 ≤ Fh ≤ 2400	060.8803.--	FH/3

kader / cadre / frame / Blendrahmen



Z		
Z1	FH ≤ 1800	A + 52
	FH ≥ 1800	551
Z2	FH ≥ 1800	659
Z3	FB ≥ 1200 (060.8906.--)	412
	FB ≥ 1200 (060.8907.--)	665
Z4	FH ≥ 1800	FH/3 - 16
Z5	FH ≤ 1800	FH/2 - 16
	FH ≥ 1800	FH/3 - 16
Z6	FB ≥ 1200	FB/2 - 16



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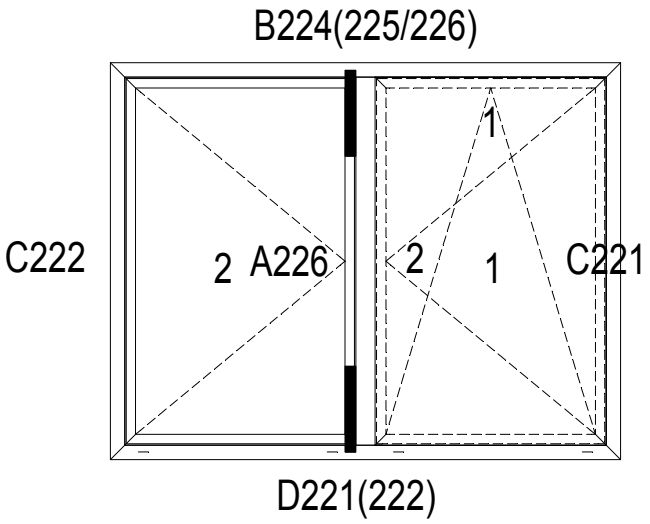
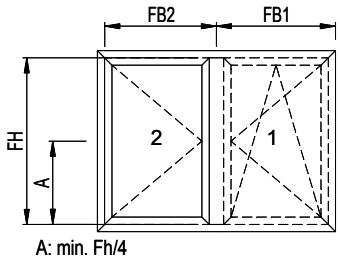
FAPIM GALIPLUS 4 INWARD





DC-TUTI inward DIN L (2 part hinge)

FH \ FB	402-750		751-900		901-1050		1051-1200	
500-699	060.8851.PA	1						
	060.8828.--	1						
	060.8824.--	1						
	060.8920.--	1						
	060.8817.XX	1						
	065.8460.XX	2						
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	
	060.8828.--	1	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	1
1201-1700	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	4
	060.8828.--	1	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1701-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2050	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4
2051-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
060.8823.--/060.8825.-- : use with aluminium rods
pen 065.8290.-- for 065.8460.XX or 065.8475.XX
Use Friction Stay 060.8922.-- : FB=1201-1600
optional latch small: 060.8813.-- (220mm)
optional latch big: 060.8814.-- (400mm)

Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

Art.	FB min	FB max	FH min	FH max
060.8920.--	402	750	500	2400
060.8921.--	750	1200	700	2400
060.8922.--	1200	1600	700	2400

D2000149

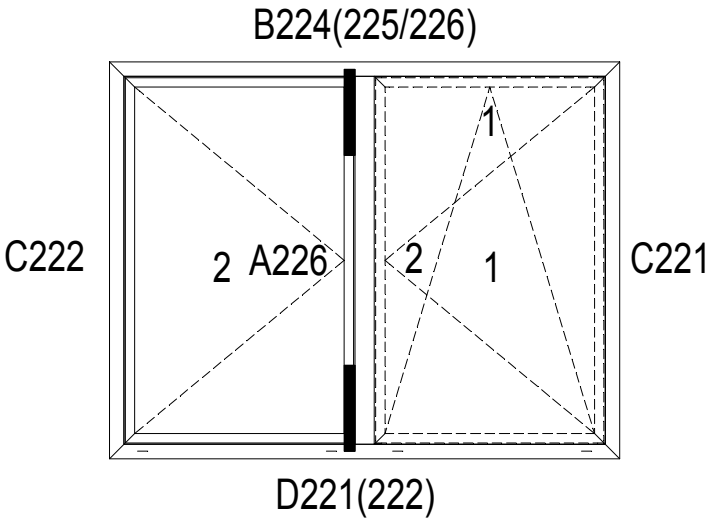
DC-TUTI inward DIN R (2 part hinge)

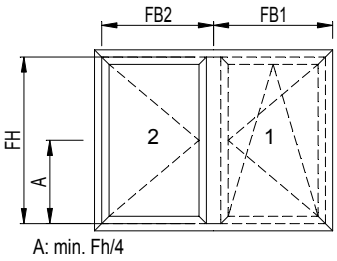
FH \ FB	402-750		751-900		901-1050		1051-1200	
500-699	060.8851.PA	1						
	060.8838.--	1						
	060.8824.--	1						
	060.8920.--	1						
	060.8807.XX	1						
	065.8460.XX	2						
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
1201-1700	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	2	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1701-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2050	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	3	065.8460.XX	3	065.8460.XX	3	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4
2051-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4	065.8460.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4	060.8911.--	4

DC-TUTI inward DIN L (3 part hinge)

FH \ FB	402-750		751-1000		1001-1200	
500-699	060.8851.PA	1				
	060.8838.--	1				
	060.8824.--	1				
	060.8920.--	1				
	060.8817.XX	1				
	065.8475.XX	2				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2100	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	3	065.8475.XX	3	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4
2101-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1	060.8817.XX	1
	065.8475.XX	4	065.8475.XX	4	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4

FAPIM GALIPLUS 4 INWARD





DC-TUTI inward DIN R (3 part hinge)

FH \ FB	402-750		751-1000		1001-1200	
500-699	060.8851.PA	1				
	060.8838.--	1				
	060.8824.--	1				
	060.8920.--	1				
	060.8807.XX	1				
	065.8475.XX	2				
700-1200	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
1201-1800	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	2	065.8475.XX	2	065.8475.XX	3
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
1801-2100	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	3	065.8475.XX	3	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4
2101-2400	060.8851.PA	1	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1	060.8807.XX	1
	065.8475.XX	4	065.8475.XX	4	065.8475.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4	060.8911.--	4

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
060.8823.--/060.8825.-- : use with aluminium rods
pen 065.8290.-- for 065.8475.XX
Use Friction Stay 060.8922.-- : FB=1201-1600
optional latch small: 060.8813.-- (220mm)
optional latch big: 060.8814.-- (400mm)

Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

Art.	FB min	FB max	FH min	FH max
060.8920.--	402	750	500	2400
060.8921.--	750	1200	700	2400
060.8922.--	1200	1600	700	2400

D2000150

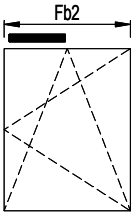
Side Hung up to 110 KG (TUTI hinge) DIN L

FH \ FB	402-750		751-1200	
500-699	060.8851.PA	1		
	060.8828.--	1		
	060.8824.--	1		
	060.8920.--	1		
	060.8817.XX	1		
	060.8807.XX	1		
	060.8804.--	1		
700-1200	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1
	060.8807.XX	1	060.8807.XX	1
	060.8804.--	1	060.8804.--	1
1201-1800	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1
	060.8807.XX	1	060.8807.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
1801-2400	060.8851.PA	1	060.8851.PA	1
	060.8828.--	1	060.8828.--	1
	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1
	060.8817.XX	1	060.8817.XX	1
	060.8807.XX	1	060.8807.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4

Side Hung up to 110 KG (TUTI hinge) DIN R

FH \ FB	402-750		751-1200	
500-699	060.8851.PA	1		
	060.8838.--	1		
	060.8824.--	1		
	060.8920.--	1		
	060.8807.XX	1		
	060.8817.XX	1		
	060.8804.--	1		
700-1200	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1
	060.8817.XX	1	060.8817.XX	1
	060.8804.--	1	060.8804.--	1
1201-1800	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1
	060.8817.XX	1	060.8817.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	1	060.8803.--	1
	060.8909.--	1	060.8909.--	1
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
1801-2400	060.8851.PA	1	060.8851.PA	1
	060.8838.--	1	060.8838.--	1
	060.8824.--	1	060.8824.--	1
	060.8920.--	1	060.8921.--	1
	060.8807.XX	1	060.8807.XX	1
	060.8817.XX	1	060.8817.XX	1
	060.8804.--	1	060.8804.--	1
	060.8803.--	2	060.8803.--	2
	060.8909.--	1	060.8909.--	1
	060.8811.--	4	060.8811.--	4
	060.8911.--	4	060.8911.--	4

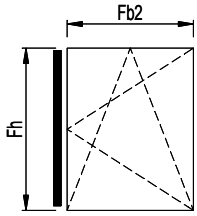
Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange



bovenkant / pos. Supérieure / top / Oben

A: MIN. 1/4Fh

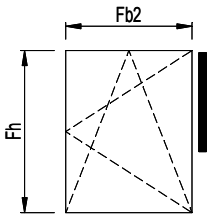
Fb		
402 - 750	PA / AL	FB - 372
751 - 1200	PA / AL	FB - 496



volledige sluitzijde / coté de fermeture complete / total locking side / komplette Verschliesseite

A: MIN. 1/4Fh

Fh		
500 - 2400	PA / AL	Fh - 296



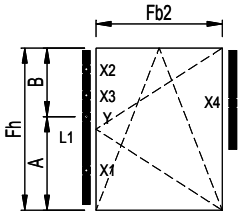
scharnierzijde / coté de scharnieres / hinge side / Bandseite

A: MIN. 1/4Fh

Fh		
1201 - 1800	PA	FH/2 - 162
1801 - 2400	PA	2/3 FH - 162

Fh		
1201 - 1800	AL	FH/2 - 173
1801 - 2400	AL	2/3 FH - 173

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten



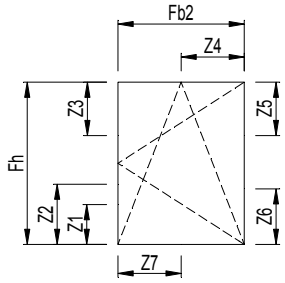
A: MIN. 1/4Fh

X / Y	Fh		
Y	500 - 2400	PA / AL	A - 126
X3	1201 - 1800	PA / AL	(A - 126) + 50
X1	1801 - 2400	PA / AL	L1 - 423
X2	1801 - 2400	PA / AL	L1 - 523
X4	1801 - 2400	PA / AL	Fh/3 - 183

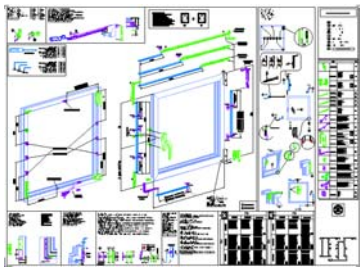
scharnierzijde / coté paumelles / hinge side / Bänderseite

Fh	REYNAERS REF.	
1201 ≤ Fh ≤ 1800	060.8803.--	FH/2
1801 ≤ Fh ≤ 2400	060.8803.--	FH/3

kader / cadre / frame / Blendrahmen



Z		
Z1		77
Z2	FH ≤ 1800	A + 52
	FH ≥ 1800	551
Z3	FH ≥ 1800	659
Z4	FB ≥ 1200 (060.8906.--)	412
	FB ≥ 1200 (060.8907.--)	665
Z5	FH ≥ 1800	FH/3 - 16
Z6	FH ≤ 1800	FH/2 - 16
	FH ≥ 1800	FH/3 - 16
Z7	FB ≥ 1200	FB/2 - 16



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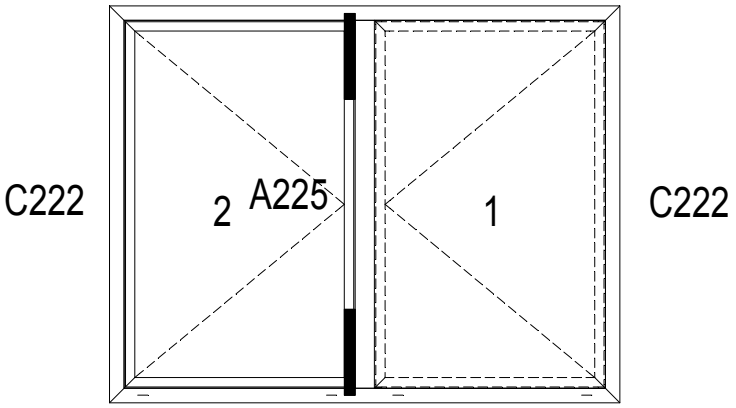
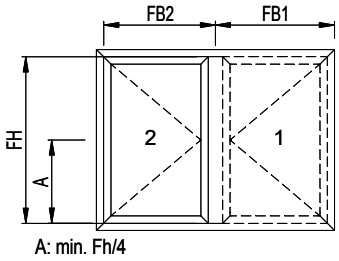
FAPIM GALIPLUS 4 INWARD





A: min. Fh/4

Side Hung up to 80 KG (2 part hinge) (*)

FH \ FB	400-900		901-1050		1051-1200	
500-1200	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	4	065.8360.XX	6	065.8360.XX	8
1201-1700	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	4	065.8360.XX	6	065.8360.XX	8
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8829.04	1/2	060.8829.04	1/2	060.8829.04	1/2
1701-1800	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	6	065.8360.XX	6	065.8360.XX	8
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8829.04	1/2	060.8829.04	1/2	060.8829.04	1/2
1801-2050	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	6	065.8360.XX	6	065.8360.XX	8
	060.8803.--	4	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
2051-2400	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	8	065.8360.XX	8	065.8360.XX	8
	060.8803.--	4	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange	
060.8823.-- : use with aluminium rods	
pen 065.8290.-- for 065.8360.XX or 065.8375.XX	
060.8826.04: Extension top rod	
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 402≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

(*) = concerning both the max window weight and dimension it is very important to refer to the capacity load diagram of the hinge used, cause this two parameters could change from case to case

D2000102

ES 45Pa

STOLP-DRAAIRAAM FAPIM GALIPLUS 4
FENETRE DOUBLE OUVRANTE A LA FRANCAISE FAPIM GALIPLUS 4
DOUBLE CASEMENT SIDE-HUNG WINDOW FAPIM GALIPLUS 4
STULP-DREHFENSTER FAPIM GALIPLUS 4

Reynaers Aluminium

Side Hung up to 90 KG (3 part hinge) (*)

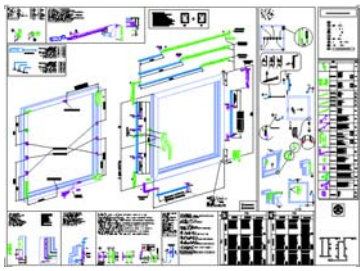
FH \ FB	400-1000		1001-1200	
500-1200	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	4	065.8375.XX	6
1201-1800	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	4	065.8375.XX	6
	060.8803.--	2	060.8803.--	2
	060.8829.04	1/2	060.8829.04	1/2
1801-2100	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	6	065.8375.XX	8
	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
2101-2400	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	8	065.8375.XX	8
	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2

Side Hung up to 110 KG (TUTI hinge) DIN L

FH \ FB	400-1200	
450-1200	060.8850.PA	1
	060.8800.04	1
	060.8801.04	1
	060.8817.XX	1
	060.8807.XX	1
	060.8804.--	2
1201-1800	060.8850.PA	1
	060.8800.04	1
	060.8801.04	1
	060.8817.XX	1
	060.8807.XX	1
	060.8804.--	2
	060.8803.--	2
	060.8829.04	1/2
1801-2400	060.8850.PA	1
	060.8800.04	1
	060.8801.04	1
	060.8817.XX	1
	060.8807.XX	1
	060.8804.--	2
	060.8803.--	4
	060.8811.--	2
	060.8911.--	2

Side Hung up to 110 KG (TUTI hinge) DIN R

FH \ FB	400-1200	
450-1200	060.8850.PA	1
	060.8800.04	1
	060.8801.04	1
	060.8807.XX	1
	060.8817.XX	1
	060.8804.--	2
1201-1800	060.8850.PA	1
	060.8800.04	1
	060.8801.04	1
	060.8807.XX	1
	060.8817.XX	1
	060.8804.--	2
	060.8803.--	2
	060.8829.04	1/2
1801-2400	060.8850.PA	1
	060.8800.04	1
	060.8801.04	1
	060.8807.XX	1
	060.8817.XX	1
	060.8804.--	2
	060.8803.--	4
	060.8811.--	2
	060.8911.--	2



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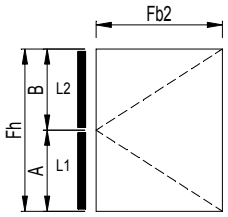
Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 2 delige en 3 delige scharnieren / pour 2 partie et 3 partie charnières / for 2 part and 3 part hinges / fur 2-teilige und 3-teilige Bänder



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

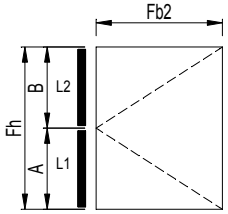
Fh		
500 - 2400	PA / AL	L2 = B - 118

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

Fh		
500 - 2400	PA / AL	L1 = A - 118

Voor DK - KD scharnieren / pour BO - OB charnières / For TUTI - TITU hinges / fur DK - KD Bänder



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

Fh		
450 - 2400	PA / AL	L2 = B - 118

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

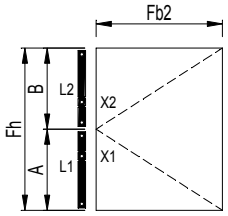
Fh		
450 - 2400	PA / AL	L1 = A - 118

sluitpunten / points de fermeture / locking points / verschlusspunkten

1201 ≤ Fh ≤ 1800

SLUITPUNT OP KRUKHOOGTE / POINT DE FERMETURE SUR LES HAUTEUR DU POIGNEE / LOCKING POINT AT HANDLE HEIGHT / VERSCHLUSSPUNKT AUF DRUCKERHOHE

A<>FH/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE

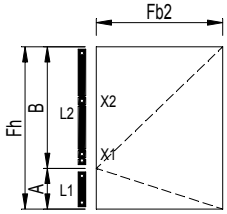


1/3Fh < A < 2/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	A - 1/3Fh - 38.1
X2	PA / AL	2/3Fh - A - 38.1

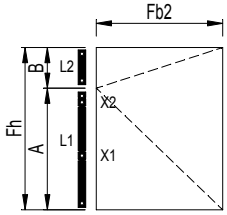
F

D2000152



A < 1/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	1/3Fh - A - 38.1
X2	PA / AL	2/3Fh - A - 38.1



A > 2/3Fh 1801 ≤ Fh ≤ 2400

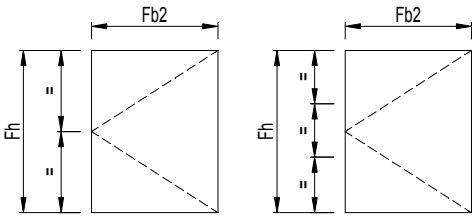
X		
X1	PA / AL	A - 1/3Fh - 38.1
X2	PA / AL	A - 2/3Fh - 38.1

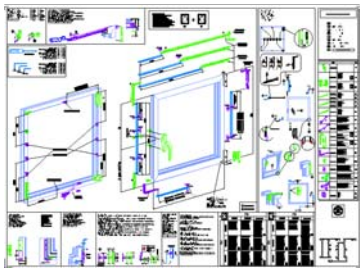
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fh	REYNAERS REF.	
1201 ≤ Fh ≤ 1800	060.8803.--	FH/2
1801 ≤ Fh ≤ 2400	060.8803.--	FH/3

kader / cadre / frame / Blendrahmen

Fh	
1201 ≤ Fh ≤ 1800	FH / 2
1801 ≤ Fh ≤ 2400	FH / 3





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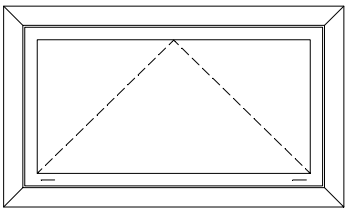
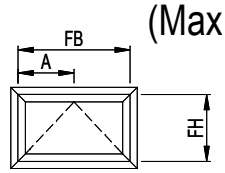
FAPIM GALIPLUS 4

A227.1/A227.2



C223.1/C223.2

(Max 50 kg)



A: min. Fh/4

Bottom Hung restrictor 150 + 2 part hinge

FH \ FB	500-1000		1001-1400		1401-1800		1801-2100		2101-2400	
300-550	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4	065.8460.XX	5	065.8460.XX	6
	060.8821.--	1	060.8821.--	1	060.8821.--	1	060.8821.--	1	060.8821.--	1
			060.8829.04	1/2	060.8829.04	1/2	060.8811.--	2	060.8811.--	2
							060.8911.--	2	060.8911.--	2

Bottom Hung restrictor 150 + 3 part hinge

FH \ FB	500-1200		1201-1800		1801-2100		2101-2400	
300-550	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8475.XX	2	065.8475.XX	3	065.8475.XX	4	065.8475.XX	5
	060.8821.--	1	060.8821.--	1	060.8821.--	1	060.8821.--	1
			060.8829.04	1/2	060.8811.--	2	060.8811.--	2
					060.8911.--	2	060.8911.--	2

Bottom Hung restrictor 220 + 2 part hinge

FH \ FB	500-1000		1001-1400		1401-1800		1801-2100		2101-2400	
500-1200	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4	065.8460.XX	5	065.8460.XX	6
	060.8820.--	1	060.8820.--	1	060.8820.--	1	060.8820.--	1	060.8820.--	1
			060.8829.04	1/2	060.8829.04	1/2	060.8811.--	2	060.8811.--	2
							060.8911.--	2	060.8911.--	2

Bottom Hung restrictor 220 + 3 part hinge

FH \ FB	500-1200		1201-1800		1801-2100		2101-2400	
500-1200	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1	060.8850.PA	1
	060.8800.04	1	060.8800.04	1	060.8800.04	1	060.8800.04	1
	065.8475.XX	2	065.8475.XX	3	065.8475.XX	4	065.8475.XX	5
	060.8820.--	1	060.8820.--	1	060.8820.--	1	060.8820.--	1
			060.8829.04	1/2	060.8811.--	2	060.8811.--	2
					060.8911.--	2	060.8911.--	2

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
NOTE : DO NOT USE WING SUPPORT IN THE BOTTOM HUNG OPENING
060.8823.-- : use with aluminium rods

NOTE = CONCERNING THE MAX WINDOW WEIGHT REFER TO THE "ALTDUE" ARMS CAPACITY LOAD

Art.	FG max
060.8820.--	50KG
060.8821.--	50KG

F

D2000104

Bottom Hung restrictor 150 + 2 part hinge + catch

FH \ FB	500-1000		1001-1400		1401-1800	
300-550	060.7054.XX	1	060.7054.XX	2	060.7054.XX	2
	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8821.--	1	060.8821.--	1	060.8821.--	1

Bottom Hung restrictor 220 + 2 part hinge + catch

FH \ FB	500-1000		1001-1400		1401-1800	
500-1200	060.7054.XX	1	060.7054.XX	2	060.7054.XX	2
	065.8460.XX	2	065.8460.XX	3	065.8460.XX	4
	060.8820.--	1	060.8820.--	1	060.8820.--	1

Bottom Hung restrictor 150 + 3 part hinge + catch

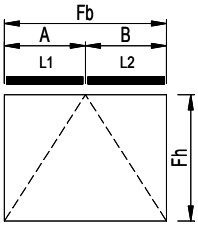
FH \ FB	500-1200		1201-1800	
300-550	060.7054.XX	1	060.7054.XX	2
	065.8475.XX	2	065.8475.XX	3
	060.8821.--	1	060.8821.--	1

Bottom Hung restrictor 220 + 3 part hinge + catch

FH \ FB	500-1200		1201-1800	
500-1200	060.7054.XX	1	060.7054.XX	2
	065.8475.XX	2	065.8475.XX	3
	060.8820.--	1	060.8820.--	1

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 2 delige en 3 delige scharnieren / pour 2 partie et 3 partie charnières / for 2 part and 3 part hinges / fur 2-teilige und 3-teilige Bänder



Bovenkant Links / En haut à gauche / Top Left / Oben Links

A: MIN. 1/4Fb

Fb		
500 - 2400	PA / AL	L1 = A - 118

Bovenkant Rechts / En haut à droite / Top Right / Oben Rechts

A: MIN. 1/4Fb

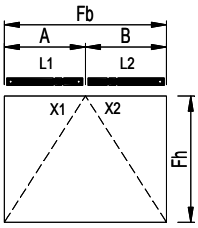
Fb		
500 - 2400	PA / AL	L2 = B - 118

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fb ≤ 1800

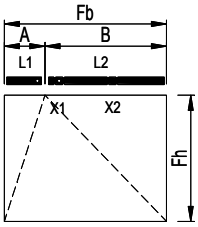
SLUITPUNT OP KRUKHOOGTE / POINT DE FERMETURE SUR LES HAUTEUR DU POIGNEE / LOCKING POINT AT HANDLE HEIGHT / VERSCHLUSSPUNKT AUF DRUCKERHOHE

A<>Fb/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE



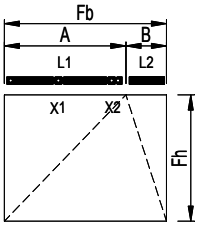
1/3Fb < A < 2/3Fb 1801 ≤ Fb ≤ 2400

X		
X1	PA / AL	A - 1/3Fb - 38.1
X2	PA / AL	2/3Fb - A - 38.1



A < 1/3Fb 1801 ≤ Fb ≤ 2400

X		
X1	PA / AL	1/3Fb - A - 38.1
X2	PA / AL	2/3Fb - A - 38.1



A > 2/3Fb 1801 ≤ Fb ≤ 2400

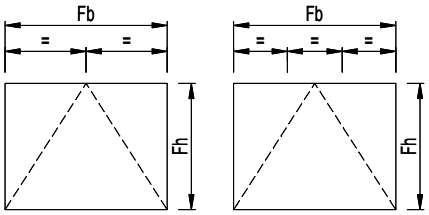
X		
X1	PA / AL	A - 1/3Fb - 38.1
X2	PA / AL	A - 2/3Fb - 38.1

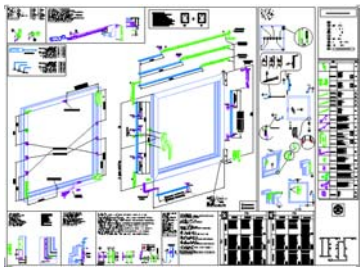
F

D2000144

kader / cadre / frame / Blendrahmen

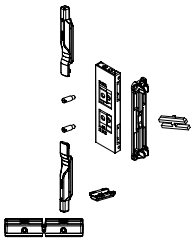
Fb	
1201 ≤ Fb ≤ 1800	FB / 2
1801 ≤ Fb ≤ 2400	FB / 3





MONTAGE TEKENINGEN KUNNEN GEDOWNLOAD WORDEN VAN https://extranet.reynaers.com: Products > Windows & Doors > Hardware
PLANS DE FABRICATION ET MONTAGE PEUVENT ÊTRE TÉLÉCHARGÉS SUR https://extranet.reynaers.com: Products > Windows & Doors > Hardware
ASSEMBLY DRAWINGS CAN BE DOWNLOADED FROM https://extranet.reynaers.com: Products > Windows & Doors > Hardware
MONTAGEZEICHNUNGEN KÖNNEN HERUNTERGELADEN WERDEN VON https://extranet.reynaers.com: Products > Windows & Doors > Hardware

A228



060.8802.--

060.8911.-- FH>1200

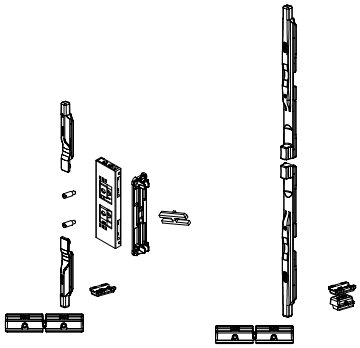
060.8811.-- FH>1200

060.8911.-- FH>1800

060.8811.-- FH>1800

060.8802.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

A229



060.8802.--

060.8801.04

060.8911.-- FH>1200

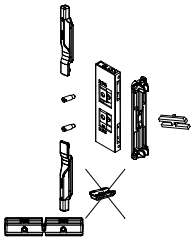
060.8811.-- FH>1200

060.8911.-- FH>1800

060.8811.-- FH>1800

060.8802.--
060.8801.04
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

A230



060.8802.--

060.8911.-- FH>1200

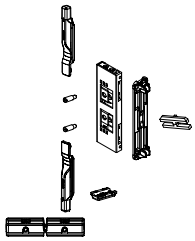
060.8811.-- FH>1200

060.8911.-- FH>1800

060.8811.-- FH>1800

060.8802.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)
060.8911.-- (FH>1800)
060.8811.-- (FH>1800)

A231



060.8802.--

060.8911.-- FH>1200

060.8811.-- FH>1200

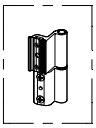
060.8802.--
060.8911.-- (FH>1200)
060.8811.-- (FH>1200)

F

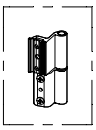
D0091922

C224 < 80kg

065.8360.XX



065.8360.XX FB>900 or / ou / or / oder FH>1700



065.8360.XX FB>1050 or / ou / or / oder FH>2050

065.8360.XX

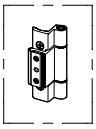
060.8803.-- FH>1200

060.8803.-- FH>1800

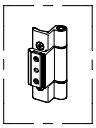
065.8360.XX
065.8360.XX (FB>900 or / ou / or / oder FH>1700)
065.8360.XX (FB>1050 or / ou / or / oder FH>2050)
060.8803.-- (FH>1200)
060.8803.-- (FH>1800)

C224 < 90kg

065.8375.XX



065.8375.XX FB>1000 or / ou / or / oder FH>1800



065.8375.XX FB>1000 en / aussi / and / und FH>1800
or / ou / or / oder FH>2100

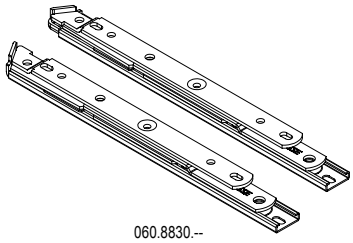
065.8375.XX

060.8803.-- FH>1200

060.8803.-- FH>1800

065.8375.XX
065.8375.XX (FB>1000 or / ou / or / oder FH>1800)
065.8375.XX (FB>1000 en / aussi / and / und FH>1800
or / ou / or / oder FH>2100)
060.8803.-- (FH>1200)
060.8803.-- (FH>1800)

C225.1

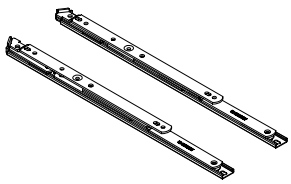


060.8830.--

060.8803.-- FH>1200

060.8830.--
060.8803.-- (FH>1200)

C225.2

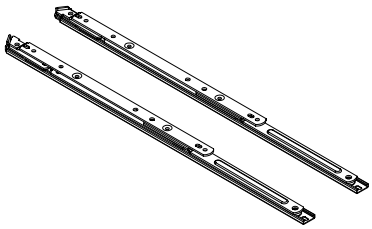


060.8831.--

060.8803.-- FH>1200

060.8831.--
060.8803.-- (FH>1200)

C225.3

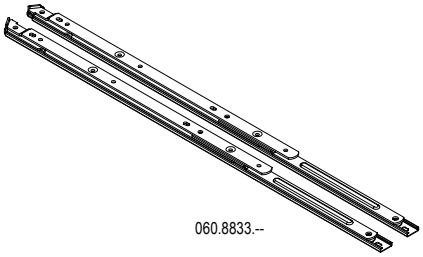


060.8832.--

060.8803.-- FH>1200

060.8832.--
060.8803.-- (FH>1200)

C225.4



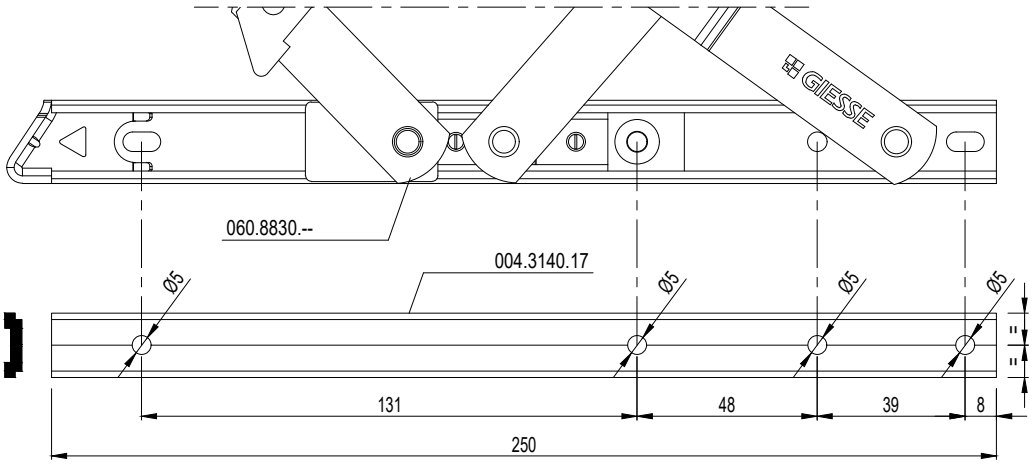
060.8833.--

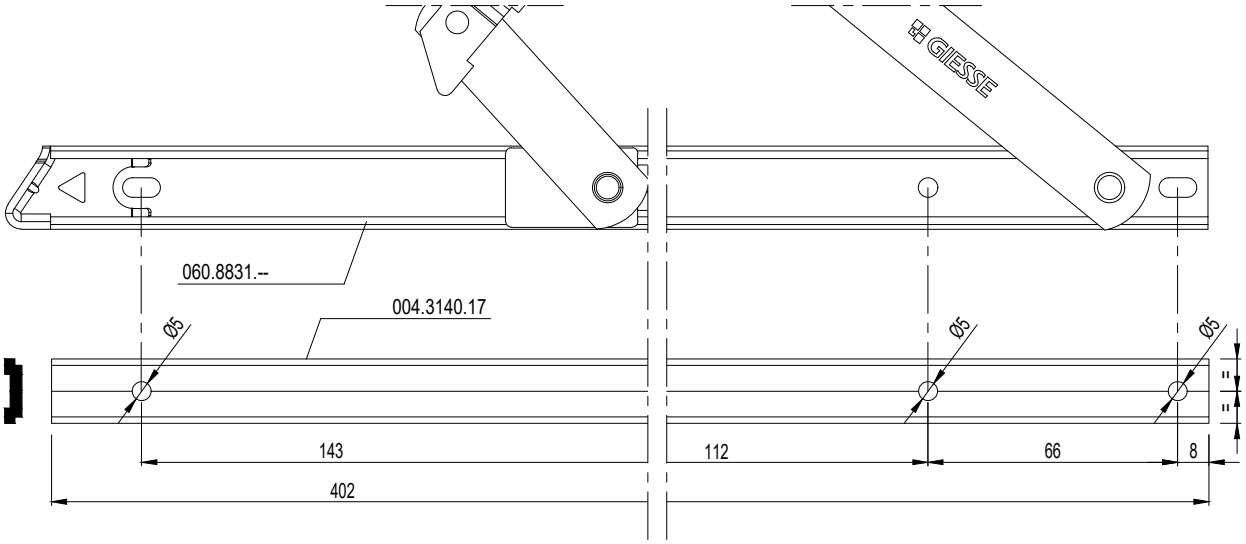
060.8803.-- FH>1200

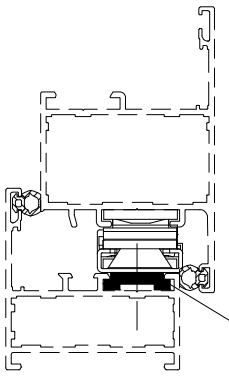
060.8833.--
060.8803.-- (FH>1200)

F

D0091922





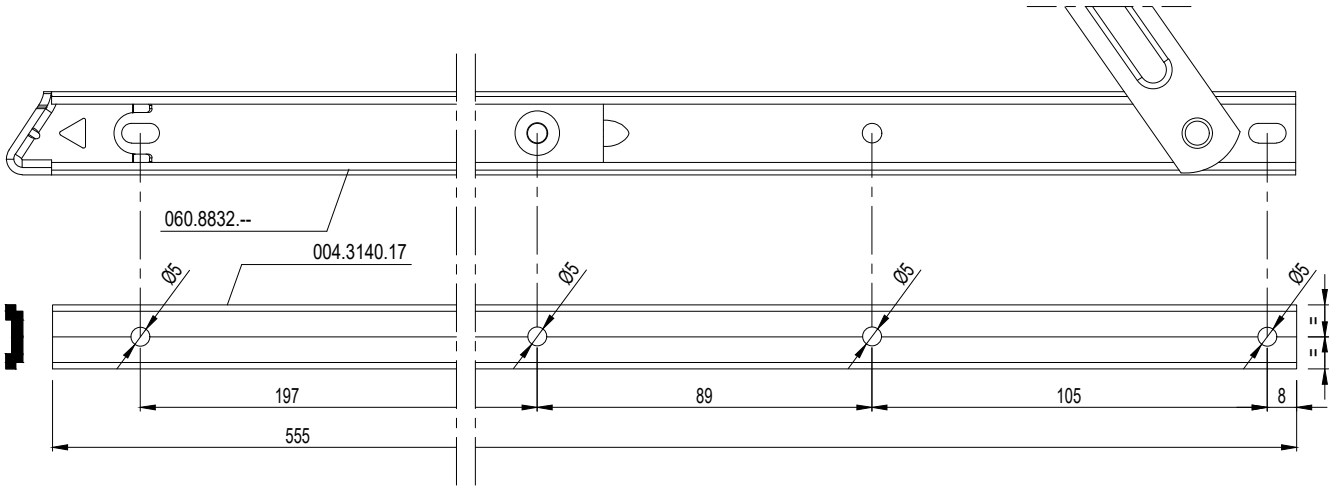


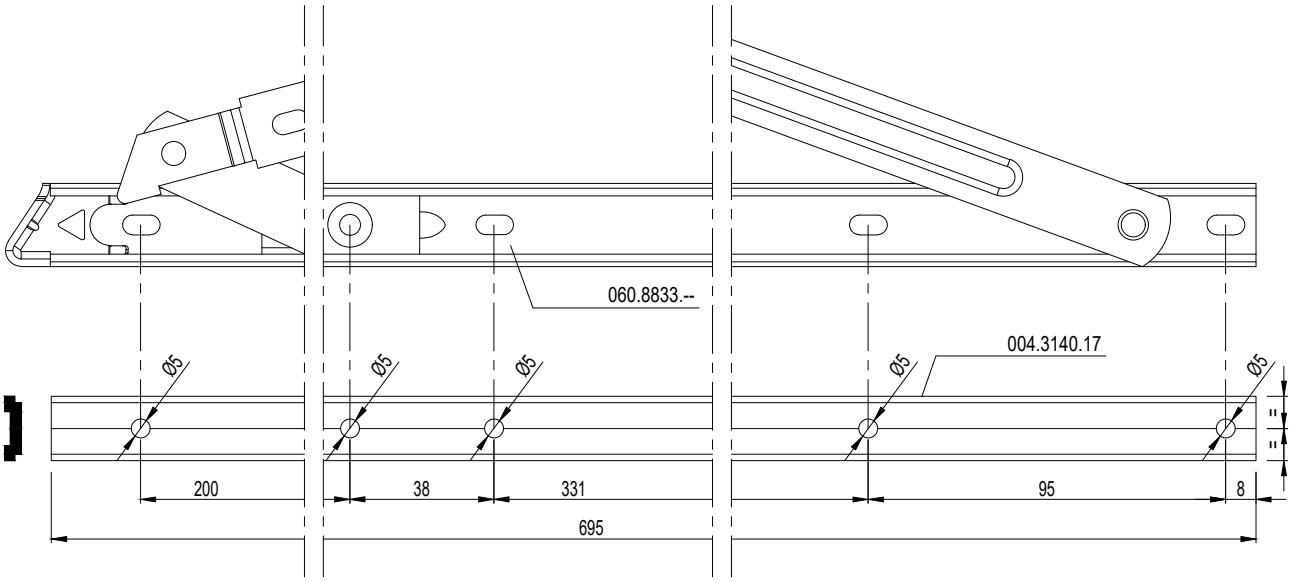
004.3140.17 - IN TE BRENGEN ALVORENS ASSEMBLAGE BUITENKADER
004.3140.17 - A INTRODUIRE AVANT L'ASSEMBLAGE DORMANT
004.3140.17 - TO BE INTRODUCED BEFORE ASSEMBLY FRAME
004.3140.17 - EINZUBRINGEN BEVOR MONTAGE FENSTER

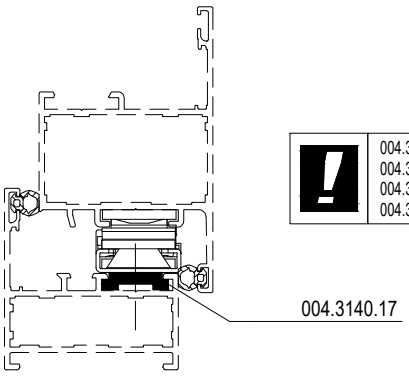
D2001126

F

INHOUD FAPIM GALIPLUS 4 OUTWARD VERPAKKING/SET
CONTENU FAPIM GALIPLUS 4 OUTWARD CONDIT./SET
CONTENT FAPIM GALIPLUS 4 OUTWARD PACKING/SET
INHALT FAPIM GALIPLUS 4 OUTWARD VERPACKUNG/SET





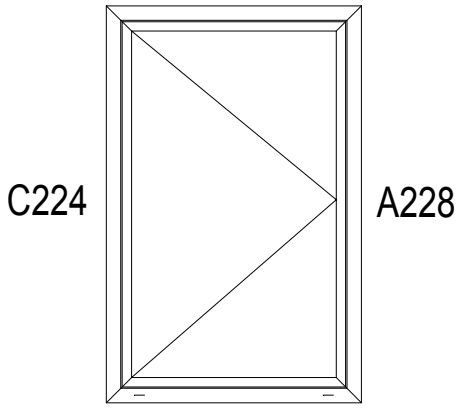


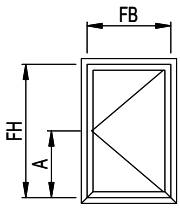
004.3140.17 - IN TE BRENGEN ALVORENS ASSEMBLAGE BUITENKADER
004.3140.17 - A INTRODUIRE AVANT L'ASSEMBLAGE DORMANT
004.3140.17 - TO BE INTRODUCED BEFORE ASSEMBLY FRAME
004.3140.17 - EINZUBRINGEN BEVOR MONTAGE FENSTER

F

D2001126

FAPIM GALIPLUS 4 OUTWARD





A: min. Fh/4

Side Hung up to 90 KG (3 part hinge) (*)

FH \ FB	400-1000		1001-1200	
500-1200	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	065.8375.XX	2	065.8375.XX	3
1201-1800	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	065.8375.XX	2	065.8375.XX	3
	060.8803.--	1	060.8803.--	1
	060.8811.--	1	060.8811.--	1
	060.8911.--	1	060.8911.--	1
1801-2100	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	065.8375.XX	3	065.8375.XX	4
	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
2101-2400	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	065.8375.XX	4	065.8375.XX	4
	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2

Side Hung up to 80 KG (2 part hinge) (*)

FH \ FB	400-900		901-1050		1051-1200	
500-1200	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8360.XX	2	065.8360.XX	3	065.8360.XX	4
1201-1700	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8360.XX	2	065.8360.XX	3	065.8360.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8811.--	1	060.8811.--	1	060.8811.--	1
	060.8911.--	1	060.8911.--	1	060.8911.--	1
1701-1800	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8360.XX	3	065.8360.XX	3	065.8360.XX	4
	060.8803.--	1	060.8803.--	1	060.8803.--	1
	060.8811.--	1	060.8811.--	1	060.8811.--	1
	060.8911.--	1	060.8911.--	1	060.8911.--	1
1801-2050	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8360.XX	3	065.8360.XX	3	065.8360.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
2051-2400	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8360.XX	4	065.8360.XX	4	065.8360.XX	4
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
pen 065.8290.-- for 065.8360.XX or 065.8375.XX
060.8823.-- : use with aluminium rods
060.8853.PA : handle with lock

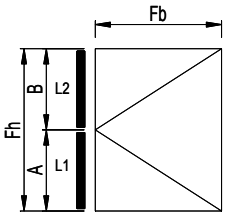
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 400≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

(*) = concerning both the max window weight and dimension it is very important to refer to the capacity load diagram of the hinge used, cause this two parameters could change from case to case

D2000106

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 2 delige en 3 delige scharnieren / pour 2 partie et 3 partie charnières / for 2 part and 3 part hinges / fur 2-teilige und 3-teilige Bänder



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

Fh		
500 - 2400	PA / AL	L2 = B - 93

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

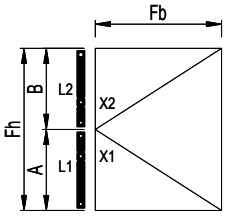
Fh		
500 - 2400	PA / AL	L1 = A - 93

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fh ≤ 1800

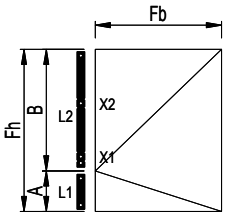
SLUITPUNT 60MM BOVEN KRUK / POINT DE FERMETURE SUR 60MM AU-DESSUS DE LA POIGNEE / LOCKING POINT AT 60MM ABOVE THE HANDLE / VERSCHLUSSPUNKT AUF 60MM UBER DEM DRUCKER

A<>FH/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE



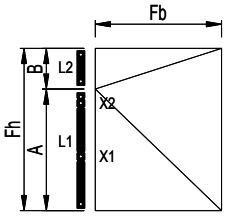
1/3Fh < A < 2/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	A - 1/3Fh - 13.1
X2	PA / AL	2/3Fh - A - 13.1



A < 1/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	1/3Fh - A - 13.1
X2	PA / AL	2/3Fh - A - 13.1



A > 2/3Fh 1801 ≤ Fh ≤ 2400

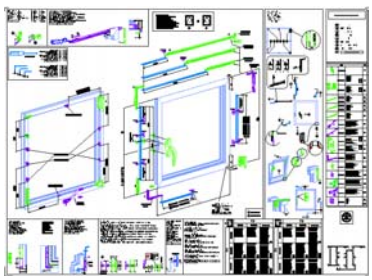
X		
X1	PA / AL	A - 1/3Fh - 13.1
X2	PA / AL	A - 2/3Fh - 13.1

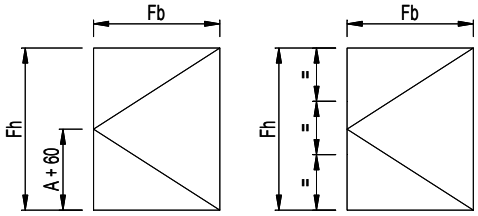
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fh	
1201 ≤ Fh ≤ 1800	FH/2
1801 ≤ Fh ≤ 2400	FH/3

kader / cadre / frame / Blendrahmen

Fh	
1201 ≤ Fh ≤ 1800	A + 60MM
1801 ≤ Fh ≤ 2400	FH / 3





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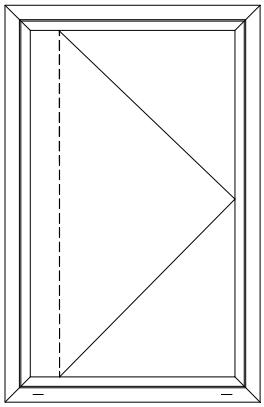
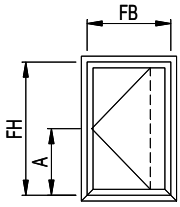
FAPIM GALIPLUS 4 OUTWARD

C225.1/
C225.2



A231



A: min. Fh/4

Voor 060.8830.-- / pour 060.8830.-- / for 060.8830.-- / fur 060.8830.--

FH \ FB	350-660	
350-1200	060.8852.PA	1
	060.8802.--	1
	060.8830.--	1
1201-1500	060.8852.PA	1
	060.8802.--	1
	060.8830.--	1
	060.8803.--	1
	060.8811.--	1
	060.8911.--	1

50°-84°
Fgmax. 35 kg

Voor 060.8831.-- / pour 060.8831.-- / for 060.8831.-- / fur 060.8831.--

FH \ FB	450-700	
450-1200	060.8852.PA	1
	060.8802.--	1
	060.8831.--	1
1201-1600	060.8852.PA	1
	060.8802.--	1
	060.8831.--	1
	060.8803.--	1
	060.8811.--	1
	060.8911.--	1

30°
Fgmax. 60 kg

FH \ FB	450-760	
450-1200	060.8852.PA	1
	060.8802.--	1
	060.8831.--	1
1201-1600	060.8852.PA	1
	060.8802.--	1
	060.8831.--	1
	060.8803.--	1
	060.8811.--	1
	060.8911.--	1

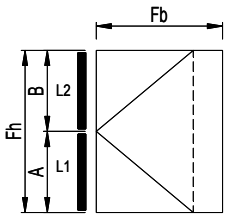
30°-50°-90°
Fgmax. 42 kg

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
USE 004.3140.17 AS SUPPORT FOR STAYS
060.8853.PA: Handle with lock
060.8823.-- : use with aluminium rods

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 060.8830.-- / pour 060.8830.-- / for 060.8830.-- / fur 060.8830.--



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

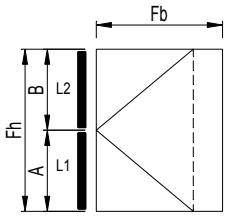
Fh		
350 - 1500	PA / AL	L2 = B - 93

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

Fh		
350 - 1500	PA / AL	L1 = A - 93

Voor 060.8831.-- / pour 060.8831.-- / for 060.8831.-- / fur 060.8831.--



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

Fh		
450 - 1600	PA / AL	L2 = B - 93

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

Fh		
450 - 1600	PA / AL	L1 = A - 93

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fh ≤ 1500 / 1201 ≤ Fh ≤ 1600

SLUITPUNT 60MM BOVEN KRUK / POINT DE FERMETURE SUR 60MM AU-DESSUS DE LA POIGNEE / LOCKING POINT AT 60MM ABOVE THE HANDLE / VERSCHLUSSPUNKT AUF 60MM UBER DEM DRUCKER

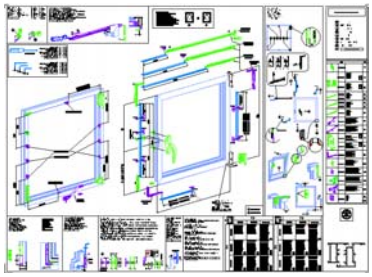
A<>FH/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE

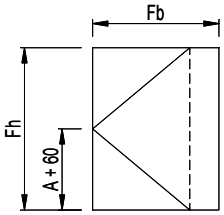
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fh	REYNAERS REF.	
1201 ≤ Fh ≤ 1500	060.8803.--	FH/2
1201 ≤ Fh ≤ 1600	060.8803.--	FH/2

kader / cadre / frame / Blendrahmen

Fh	
1201 ≤ Fh ≤ 1500	A + 60MM
1201 ≤ Fh ≤ 1600	A + 60MM





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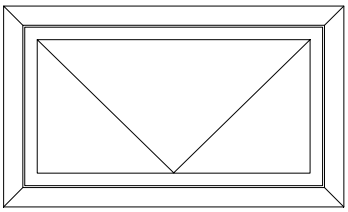
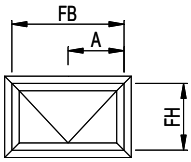
FAPIM GALIPLUS 4 OUTWARD

C224



A230



A: min. Fh/4

Top Hung + 2 part hinge

FB / FH	FG = MAX 40KG				FG = MAX 50KG					
	500-1000		1001-1400		1401-1800		1801-2100		2101-2400	
400-1200	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8360.XX	2	065.8360.XX	3	065.8360.XX	4	065.8360.XX	5	065.8360.XX	6
			060.8811.--	1	060.8811.--	1	060.8811.--	2	060.8811.--	2
			060.8911.--	1	060.8911.--	1	060.8911.--	2	060.8911.--	2

Top Hung + 3 part hinge

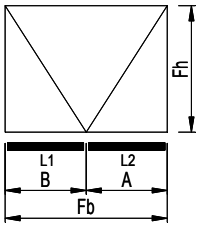
FB / FH	FG = MAX 50KG				FG = MAX 60KG			
	500-1200		1201-1800		1801-2100		2101-2400	
400-1200	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1	060.8802.--	1
	065.8375.XX	2	065.8375.XX	3	065.8375.XX	4	065.8375.XX	5
			060.8811.--	1	060.8811.--	2	060.8811.--	2
			060.8911.--	1	060.8911.--	2	060.8911.--	2

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
060.8853.PA : handle with lock
NOTE : DO NOT USE WING SUPPORT IN THE BOTTOM HUNG OPENING
060.8823.-- : use with aluminium rods

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 2 delige en 3 delige scharnieren / pour 2 partie et 3 partie charnières / for 2 part and 3 part hinges / fur 2-teilige und 3-teilige Bänder



Onderkant Links / En bas à gauche / Bottom Left / Unten Links

B: MIN. 1/4Fb

Fb		
500 - 2400	PA / AL	L1 = B - 93

Onderkant Rechts / En bas à droite / Bottom Right / Unten Rechts

B: MIN. 1/4Fb

Fb		
500 - 2400	PA / AL	L2 = A - 93

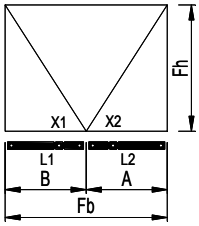
Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fb ≤ 1800

SLUITPUNT 60MM BOVEN KRUK / POINT DE FERMETURE SUR 60MM AU-DESSUS DE LA POIGNEE / LOCKING POINT AT 60MM ABOVE THE HANDLE / VERSCHLUSSPUNKT AUF 60MM UBER DEM DRUCKER

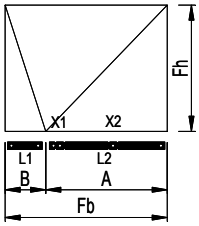
A<>FB/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE

1/3Fb < B < 2/3Fb 1801 ≤ Fb ≤ 2400



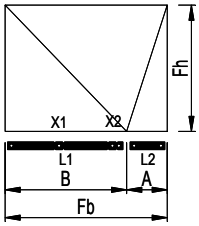
X		
X1	PA / AL	B - 1/3Fb - 13.1
X2	PA / AL	2/3Fb - B - 13.1

B < 1/3Fb 1801 ≤ Fb ≤ 2400



X		
X1	PA / AL	1/3Fb - B - 13.1
X2	PA / AL	2/3Fb - B - 13.1

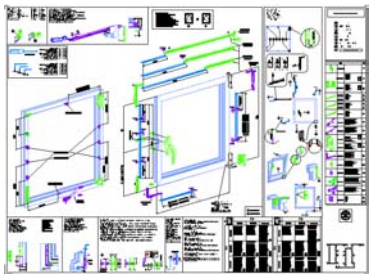
B > 2/3Fb 1801 ≤ Fb ≤ 2400

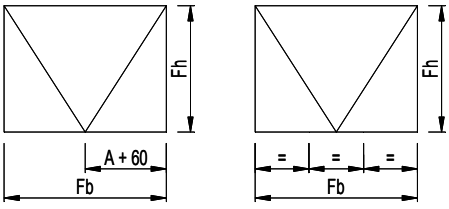


X		
X1	PA / AL	B - 1/3Fb - 13.1
X2	PA / AL	B - 2/3Fb - 13.1

kader / cadre / frame / Blendrahmen

Fb	
1201 ≤ Fb ≤ 1800	A + 60MM
1801 ≤ Fb ≤ 2400	FB / 3





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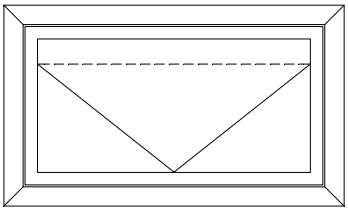
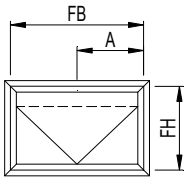
FAPIM GALIPLUS 4 OUTWARD

C225.1/C225.2/C225.3/C225.4



A231



A: min. Fh/4

Voor 060.8830.-- / pour 060.8830.-- / for 060.8830.-- / fur 060.8830.--

FH \ FB	350-1200		1201-1500	
350-650	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8830.--	1	060.8830.--	1
			060.8803.--	1
			060.8811.--	1
			060.8911.--	1

50°
Fgmax. 50 kg

Voor 060.8831.-- / pour 060.8831.-- / for 060.8831.-- / fur 060.8831.--

FH \ FB	450-1200		1201-1500	
450-800	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8831.--	1	060.8831.--	1
			060.8803.--	1
			060.8811.--	1
			060.8911.--	1

30°
Fgmax. 100 kg

50°
Fgmax. 55 kg

Voor 060.8833.-- / pour 060.8833.-- / for 060.8833.-- / fur 060.8833.--

FH \ FB	750-1200		1201-1700	
750-1200	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8833.--	1	060.8833.--	1
			060.8803.--	1
			060.8811.--	1
			060.8911.--	1

15°
Fgmax. 100 kg

Voor 060.8832.-- / pour 060.8832.-- / for 060.8832.-- / fur 060.8832.--

FH \ FB	650-1200		1201-1700	
650-1000	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8832.--	1	060.8832.--	1
			060.8803.--	1
			060.8811.--	1
			060.8911.--	1
1001-1200	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8832.--	1	060.8832.--	1
			060.8803.--	1
			060.8811.--	1
			060.8911.--	1

art nr / FB max	060.8832.--	
	A	FG
≤ 1000	45°	80
> 1000 ≤ 1200	30° with limiter	80
1200	20°	100

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
060.8823.-- : use with aluminium rods
060.8853.PA : afsluitbare kruk
USE 004.3140.17 AS SUPPORT FOR STAYS
060.8832.-- : FG 80: use of 060.8820.-- / 060.8821.--

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 060.8830.-- / pour 060.8830.-- / for 060.8830.-- / fur 060.8830.--

Onderkant Links / En bas à gauche / Bottom Left / Unten Links

B: MIN. 1/4Fb

Fb		
350 - 1500	PA / AL	L1 = B - 93

Onderkant Rechts / En bas à droite / Bottom Right / Unten Rechts

B: MIN. 1/4Fb

Fb		
350 - 1500	PA / AL	L2 = A - 93

Voor 060.8831.-- / pour 060.8831.-- / for 060.8831.-- / fur 060.8831.--

Onderkant Links / En bas à gauche / Bottom Left / Unten Links

B: MIN. 1/4Fb

Fb		
450 - 1500	PA / AL	L1 = B - 93

Onderkant Rechts / En bas à droite / Bottom Right / Unten Rechts

B: MIN. 1/4Fb

Fb		
450 - 1500	PA / AL	L2 = A - 93

F

D2000109

UITZETZAKRAAM GIESSE
FENETRE OUVRANT A L'ITALIENNE GIESSE
TOP-HUNG WINDOW WITH FRICTION STAYS GIESSE
SENKKLAPPFENSTER GIESSE

Voor 060.8832.-- / pour 060.8832.-- / for 060.8832.-- / fur 060.8832.--

Onderkant Links / En bas à gauche / Bottom Left / Unten Links

B: MIN. 1/4Fb

Fb		
650 - 1700	PA / AL	L1 = B - 93

Onderkant Rechts / En bas à droite / Bottom Right / Unten Rechts

B: MIN. 1/4Fb

Fb		
650 - 1700	PA / AL	L2 = A - 93

Voor 060.8833.-- / pour 060.8833.-- / for 060.8833.-- / fur 060.8833.--

Onderkant Links / En bas à gauche / Bottom Left / Unten Links

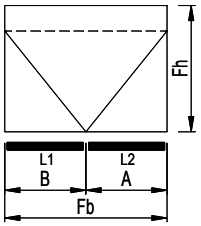
B: MIN. 1/4Fb

Fb		
750 - 1700	PA / AL	L1 = B - 93

Onderkant Rechts / En bas à droite / Bottom Right / Unten Rechts

B: MIN. 1/4Fb

Fb		
750 - 1700	PA / AL	L2 = A - 93



Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fb ≤ 1500 / 1201 ≤ Fb ≤ 1700

SLUITPUNT 60MM BOVEN KRUK / POINT DE FERMETURE SUR 60MM AU-DESSUS DE LA POIGNEE / LOCKING POINT AT 60MM ABOVE THE HANDLE / VERSCHLUSSPUNKT AUF 60MM UBER DEM DRUCKER

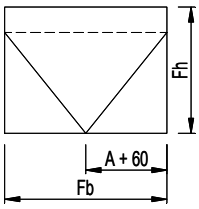
A<>FB/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE

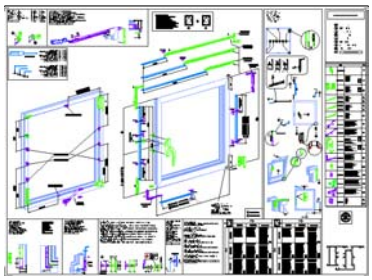
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fb	REYNAERS REF.	
1201 ≤ Fb ≤ 1500	060.8803.--	FB/2
1201 ≤ Fb ≤ 1700	060.8803.--	FB/2

kader / cadre / frame / Blendrahmen

Fb	
1201 ≤ Fb ≤ 1500	A + 60MM
1201 ≤ Fb ≤ 1700	A + 60MM





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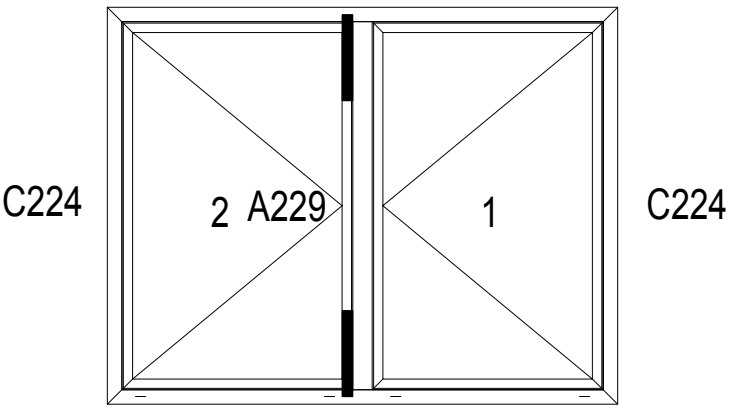
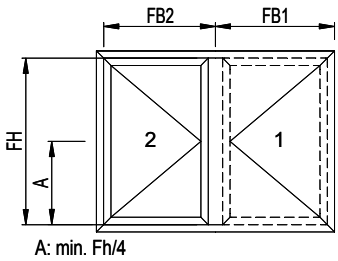
FAPIM GALIPLUS 4 OUTWARD





A: min. Fh/4

DC-Side Hung up to 80 KG (2 part hinge) (*)

FH \ FB	400-900		901-1050		1051-1200	
500-1200	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	4	065.8360.XX	6	065.8360.XX	8
1201-1700	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	1	065.8360.XX	1	065.8360.XX	1
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8811.--	1	060.8811.--	1	060.8811.--	1
	060.8911.--	1	060.8911.--	1	060.8911.--	1
1701-1800	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	6	065.8360.XX	6	065.8360.XX	8
	060.8803.--	2	060.8803.--	2	060.8803.--	2
	060.8811.--	1	060.8811.--	1	060.8811.--	1
	060.8911.--	1	060.8911.--	1	060.8911.--	1
1801-2050	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	6	065.8360.XX	6	065.8360.XX	8
	060.8803.--	4	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2
2051-2400	060.8852.PA	1	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1	060.8801.04	1
	065.8360.XX	8	065.8360.XX	8	065.8360.XX	8
	060.8803.--	4	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2	060.8911.--	2

DC-Side Hung up to 90 KG (3 part hinge) (*)

FH \ FB	400-1000		1001-1200	
500-1200	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	4	065.8375.XX	6
1201-1800	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	4	065.8375.XX	6
	060.8803.--	2	060.8803.--	2
	060.8811.--	1	060.8811.--	1
	060.8911.--	1	060.8911.--	1
1801-2100	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	6	065.8375.XX	8
	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2
2101-2400	060.8852.PA	1	060.8852.PA	1
	060.8802.--	1	060.8802.--	1
	060.8801.04	1	060.8801.04	1
	065.8375.XX	8	065.8375.XX	8
	060.8803.--	4	060.8803.--	4
	060.8811.--	2	060.8811.--	2
	060.8911.--	2	060.8911.--	2

(*) = concerning both the max window weight and dimension it is very important to refer to the capacity load diagram of the hinge used, cause this two parameters could change from case to case

ALGEMENE OPMERKINGEN / REMARQUES GENERALES / GENERAL REMARKS / ALLGEMEINE HINWEISE

+ Sluitlat / Tringle / Link Bar / Schubstange
pen 065.8290.-- for 065.8360.XX or 065.8375.XX
060.8826.04: Extension top rod
060.8823.-- : use with aluminium rods
060.8853.PA : handle with lock

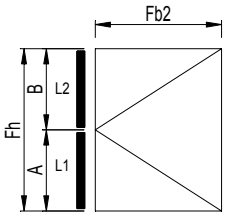
Aangeraden in openbare gebouwen Recommandé dans les bâtiments publics Recommended in public building Empfohlen in öffentlichen Gebäuden	060.7170.--: FG <50kg: 400≤FB<800
	060.7170.--: FG≥50kg: 500≤FB<800
	060.8810.--: 800≤FB<1200

F

D2000110

Regeltringels / Tringles de réglage / Adjustment rods / Regulierstange

Voor 2 delige en 3 delige scharnieren / pour 2 partie et 3 partie charnières / for 2 part and 3 part hinges / fur 2-teilige und 3-teilige Bänder



boven kruk / au-dessus cremone / above handle / oben Hebel

A: MIN. 1/4Fh

Fh		
500 - 2400	PA / AL	L2 = B - 93

onder kruk / en-dessous cremone / under handle / unter Hebel

A: MIN. 1/4Fh

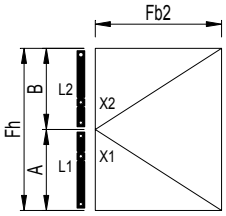
Fh		
500 - 2400	PA / AL	L1 = A - 93

Sluitpunten / Points de fermeture / Locking points / Verschlusspunkten

1201 ≤ Fh ≤ 1800

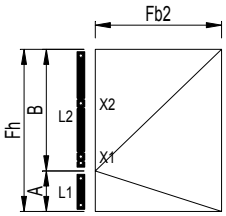
SLUITPUNT 60MM BOVEN KRUK / POINT DE FERMETURE SUR 60MM AU-DESSUS DE LA POIGNEE / LOCKING POINT AT 60MM ABOVE THE HANDLE / VERSCHLUSSPUNKT AUF 60MM UBER DEM DRUCKER

A<>FH/2 : EXTRA PUNT OP LANGERE TRINGEL / EXTRA POINT SUR LE TRINGLE PLUS LONGUE / EXTRA POINT ON THE LONGEST ROD / EXTRA PUNKT AUF DER LANGSTEN STANGE



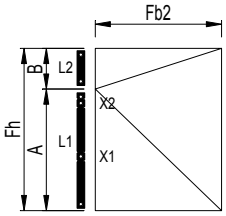
1/3Fh < A < 2/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	A - 1/3Fh - 13.1
X2	PA / AL	2/3Fh - A - 13.1



A < 1/3Fh 1801 ≤ Fh ≤ 2400

X		
X1	PA / AL	1/3Fh - A - 13.1
X2	PA / AL	2/3Fh - A - 13.1



A > 2/3Fh 1801 ≤ Fh ≤ 2400

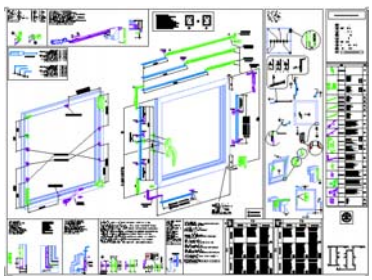
X		
X1	PA / AL	A - 1/3Fh - 13.1
X2	PA / AL	A - 2/3Fh - 13.1

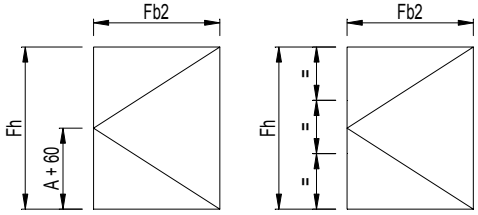
scharnierzijde / coté de charnieres / hinge side / Bandseite

Fh	REYNAERS REF.	
1201 ≤ Fh ≤ 1800	060.8803.--	FH/2
1801 ≤ Fh ≤ 2400	060.8803.--	FH/3

kader / cadre / frame / Blendrahmen

Fh	
1201 ≤ Fh ≤ 1800	A + 60MM
1801 ≤ Fh ≤ 2400	FH / 3





MONTAGE TEKENINGEN KUNNEN GEDOWNLOAD WORDEN VAN https://extranet.reynaers.com: Products > Windows & Doors > Hardware
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MONTAGEZEICHNUNGEN KÖNNEN HERUNTERGELADEN WERDEN VON https://extranet.reynaers.com: Products > Windows & Doors > Hardware

ES 45Pa

RAAM NAAR BUITENDRAAIEND MET ENGELSE KRUK
FENETRE OUVRANT VERS L'EXT. A BEQUILLE ANGL.
SIDE-HUNG WINDOW OUTWARD OPENING WITH COCKSPUR HANDLE
DREHFENSTER NACH AUSSEN OEFFNEND MIT ENGL. GRIFF

Reynaers Aluminium

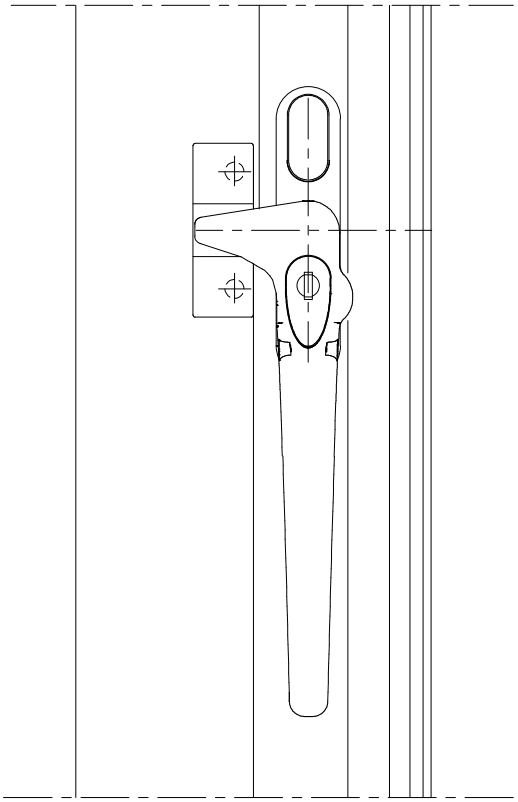
D0091883

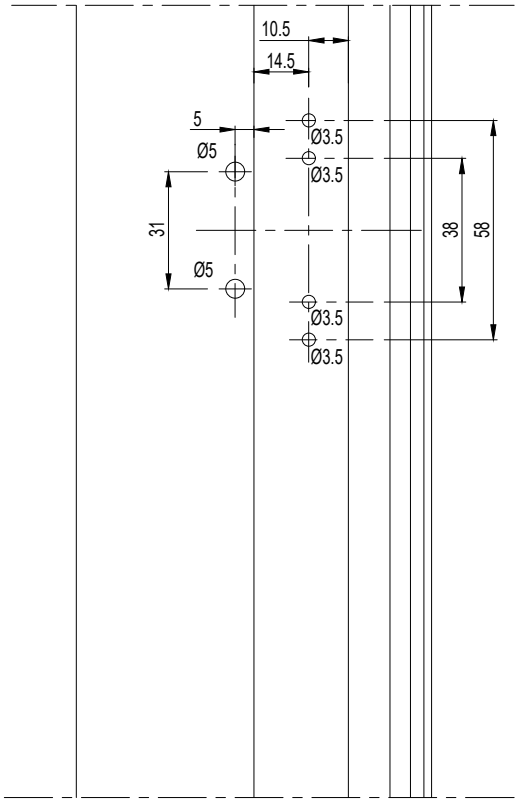
F

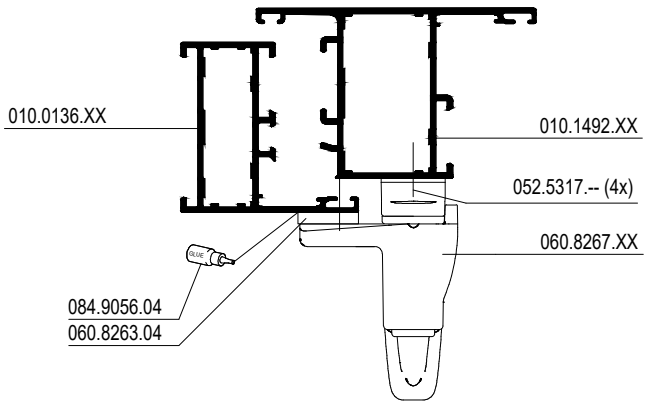
ES 45Pa

RAAM NAAR BUITENDRAAIEND MET ENGELSE KRUK
FENETRE OUVRANT VERS L'EXT. A BEQUILLE ANGL.
SIDE-HUNG WINDOW OUTWARD OPENING WITH COCKSPUR HANDLE
DREHFENSTER NACH AUSSEN OEFFNEND MIT ENGL. GRIFF

060.8266.XX
060.8267.XX





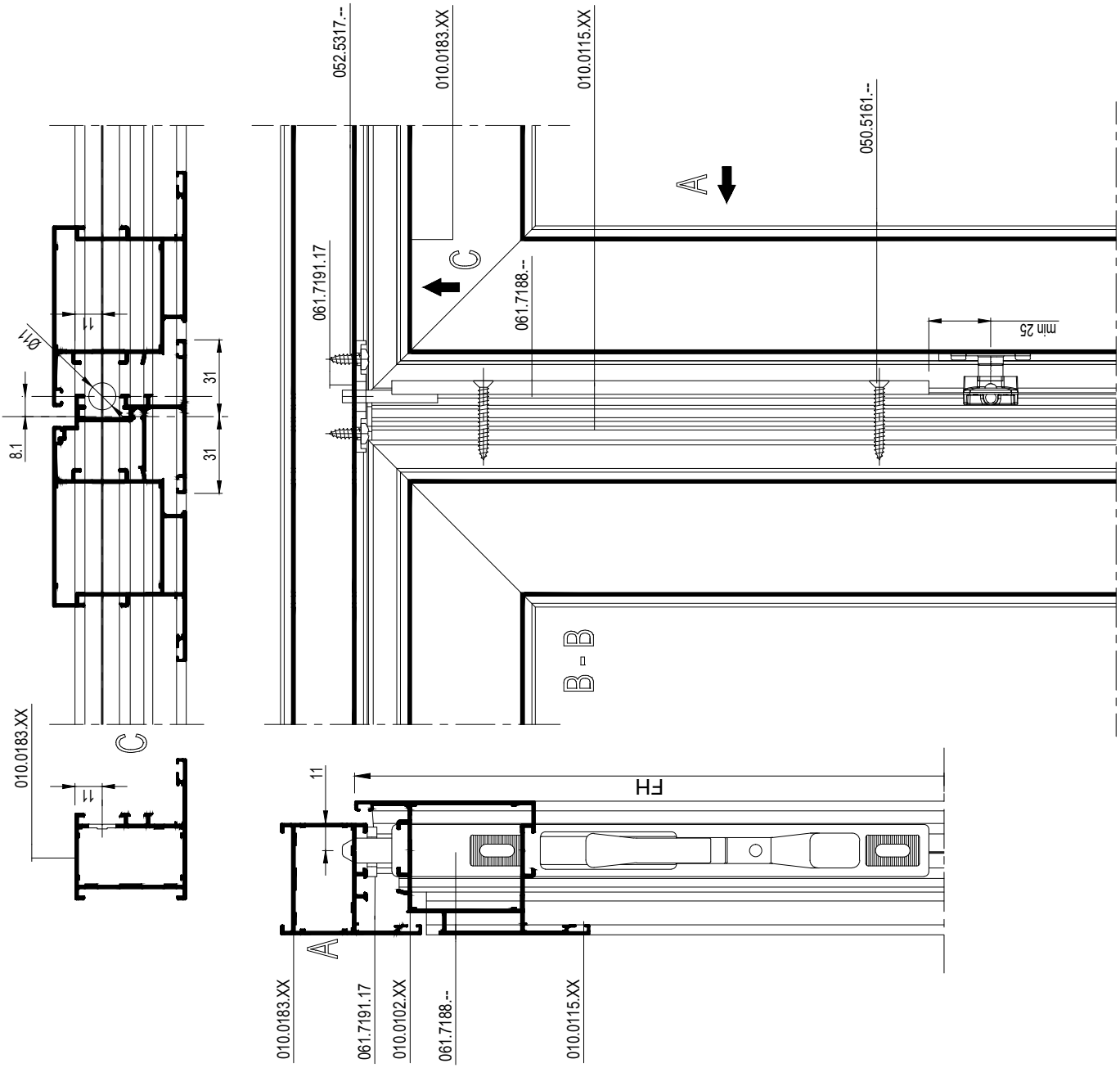


F

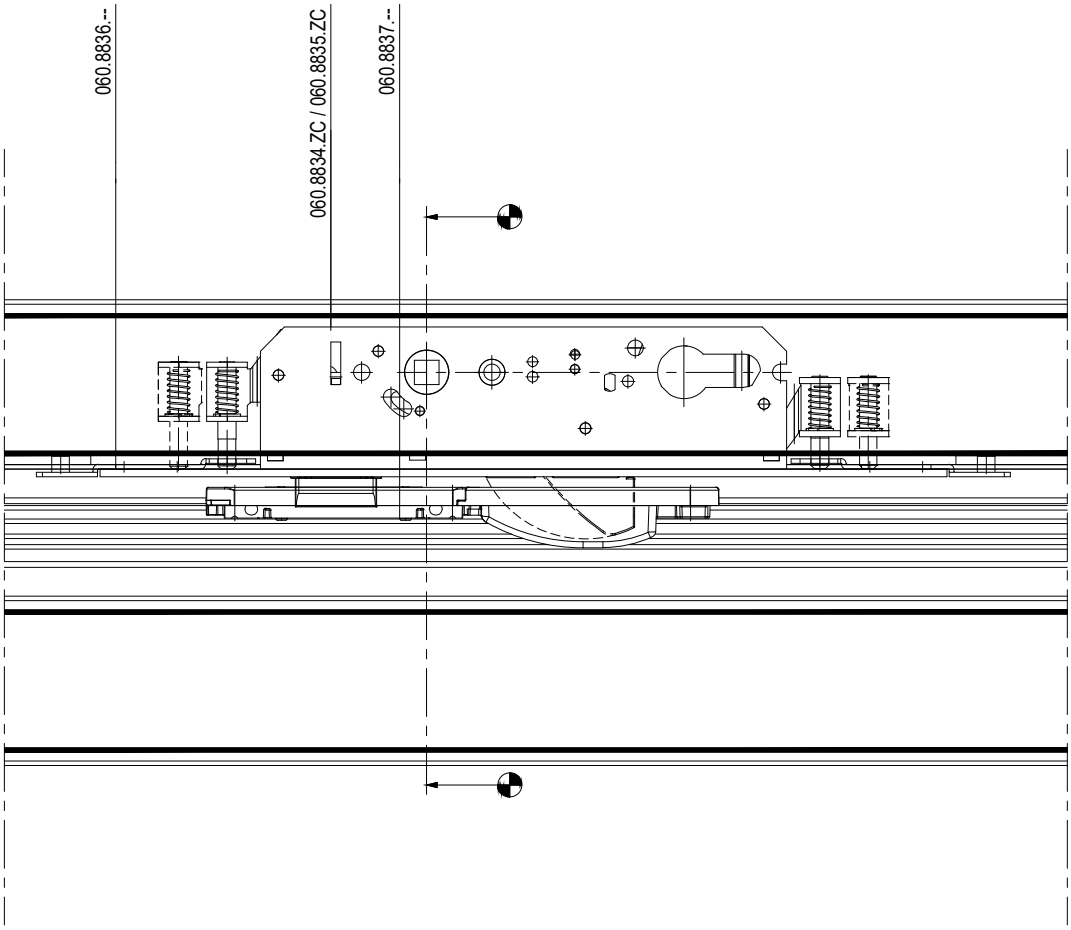
D0091883

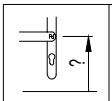
ES 45Pa

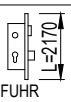
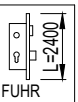
INBOUW KANTSCHUIF RAAMDEUR
ENCASTREMENT VERROU PORTE-FENETRE
EMBEDDING LOCKING BOLT WINDOW-DOOR
EINBAU KANTRIEGEL FENSTERTUER

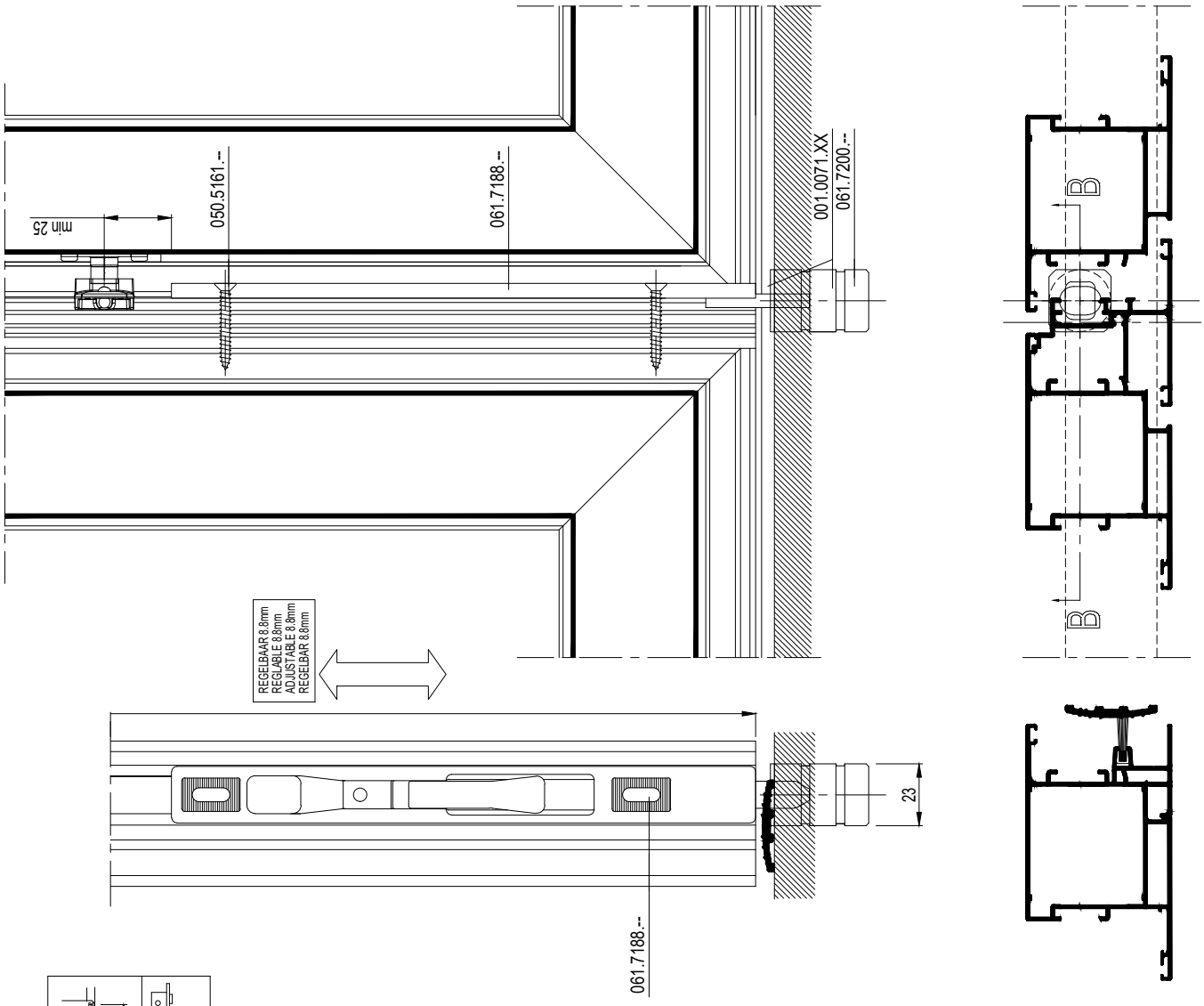


D0091885



	FUHR
061.7188.--	1140mm

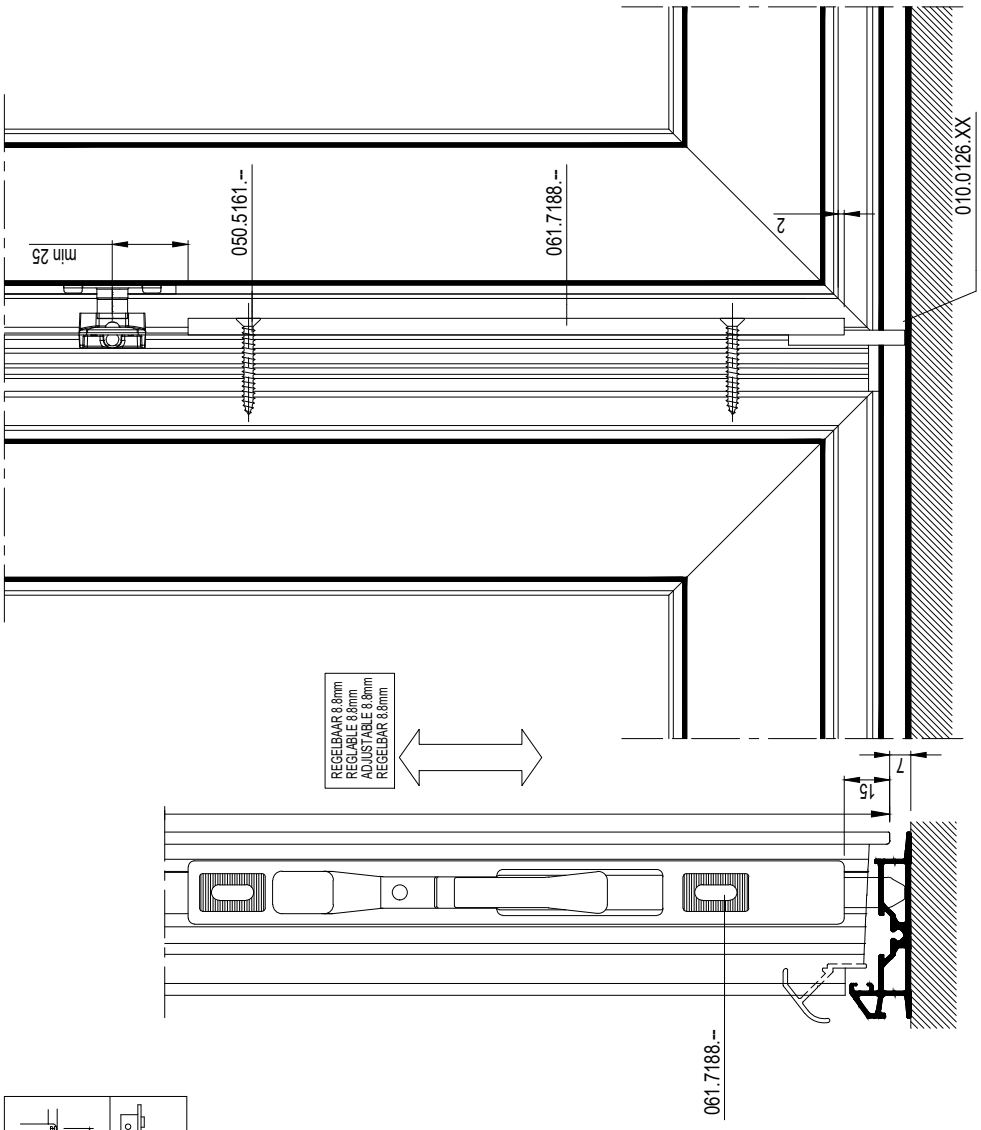
FH min.	 FUHR	 FUHR
061.7188.--	2240mm	2420mm

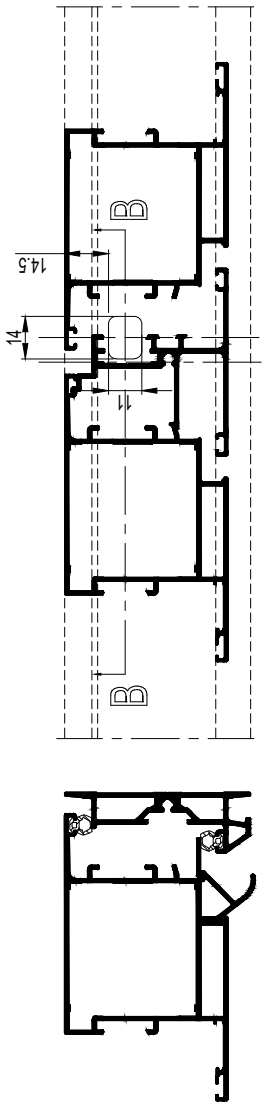


	FUHR
061.7188.--	1140mm

FH min.	FUHR L=2170	FUHR L=2400
061.7188.--	2240mm	2420mm

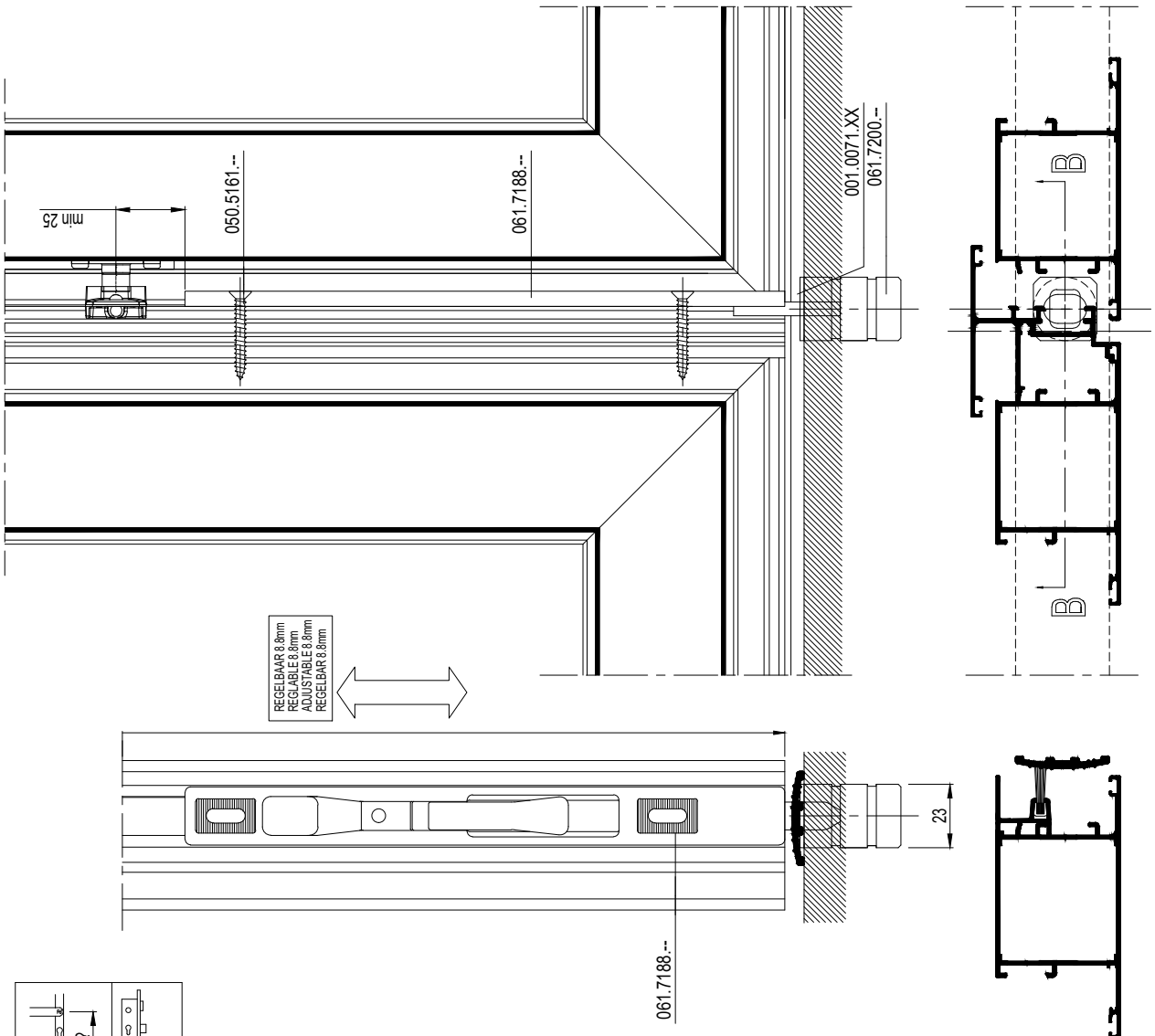
D0091886





?	FUHR
061.7188.--	1140mm

FH min.	L=2170 FUHR	L=2400 FUHR
061.7188.--	2240mm	2420mm



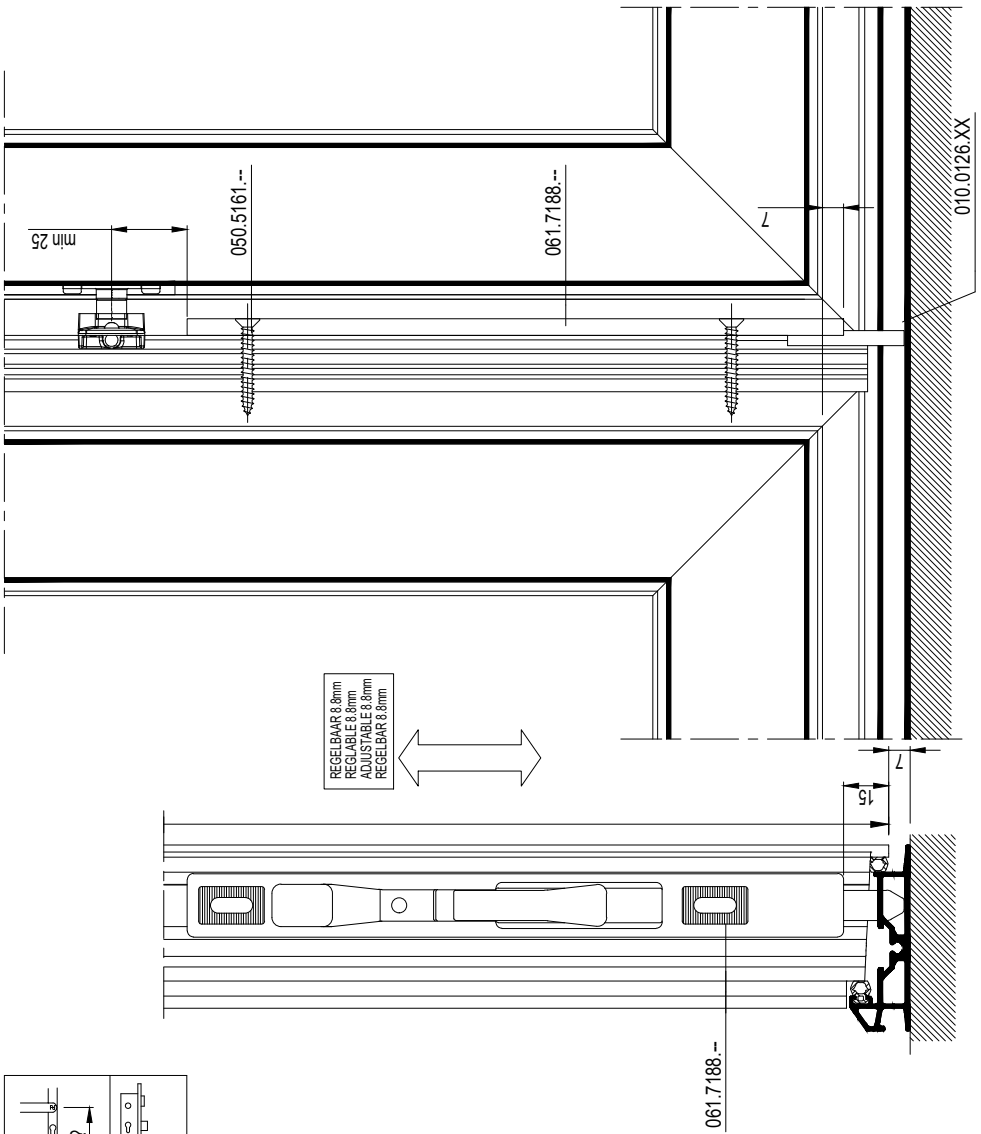
	FUHR
061.7188.--	1140mm

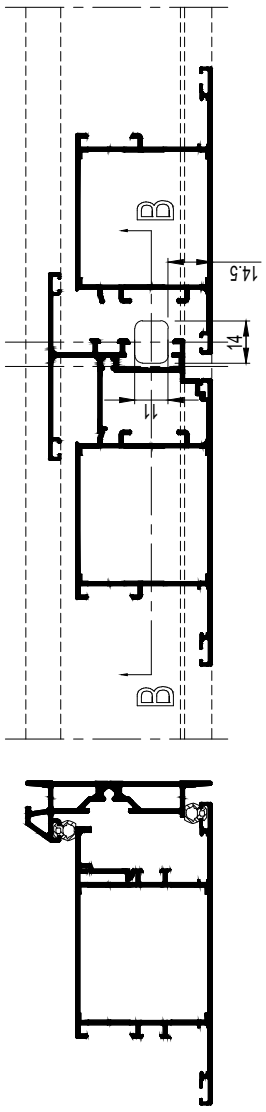
FH min.	FUHR L=2170	FUHR L=2400
061.7188.--	2240mm	2420mm

D0091887

ES 45Pa

INBOUW KANTSCHUIF RAAMDEUR
ENCASTREMENT VERROU PORTE-FENETRE
EMBEDDING LOCKING BOLT WINDOW-DOOR
EINBAU KANTRIEGEL FENSTERTUER





?	FUHR
061.7188.--	1140mm

FH min.	L=2170 FUHR	L=2400 FUHR
061.7188.--	2240mm	2420mm

D0091887

F

D2000111

								061.7188.--		061.7188.--		
1	①2		1x	060.8834.ZC	1x	060.8834.ZC	1x	060.8834.ZC	1x	060.8834.ZC
			1x	060.8837.--	1x	060.8837.--	1x	060.8837.--	1x	060.8837.--
			2x	060.8854.PA	2x	060.8854.PA	2x	060.8854.PA	2x	060.8854.PA
			1x	060.8827.PA	2x	060.8827.PA	1x	060.8827.PA	2x	060.8827.PA
			1x	060.8839.--	1x	061.7097.--	1x	060.8839.--	1x	061.7097.--
			1x	061.7035.--	1x	061.7044.--	1x	061.7035.--	1x	061.7044.--
	1②						2x	061.7188.--	2x	061.7188.--
							1x	061.7191.17	1x	061.7191.17
							1x	061.7200.--	1x	061.7200.--
X	①2		1x	060.8835.ZC	1x	060.8835.ZC	1x	060.8835.ZC	1x	060.8835.ZC
			1x	060.8837.--	1x	060.8837.--	1x	060.8837.--	1x	060.8837.--
			1x	060.8836.--	1x	060.8836.--	1x	060.8836.--	1x	060.8836.--
			Sluitpunten afhankelijk van de hoogte / Points de verrouillage selon la hauteur / Locking points depending on height / Schliesspunkte abhängig von der Höhe							
			2x	060.8854.PA	2x	060.8854.PA	2x	060.8854.PA	2x	060.8854.PA
			1x	060.8827.PA	2x	060.8827.PA	1x	060.8827.PA	2x	060.8827.PA
			1x	060.8839.--	1x	061.7097.--	1x	060.8839.--	1x	061.7097.--
			1x	061.7035.--	1x	061.7044.--	1x	061.7035.--	1x	061.7044.--
	1②						2x	061.7188.--	2x	061.7188.--
							1x	061.7191.17	1x	061.7191.17
							1x	061.7200.--	1x	061.7200.--

SCHARNIEREN -> RAADPLEEG "SCHARNIER RAAMDEUREN FAPIM" !
CHARNIERES -> CONSULTEZ "CHARNIERES PORTE-FENETRES FAPIM" !
HINGES -> CONSULT "HINGES WINDOW-DOORS FAPIM" !
BANDER -> SIEHE "BAENDER FENSTERTUEREN FAPIM" !

FUHR SLOTEN + KRUKKEN OOK MOGELIJK
FUHR FERMETURES + CREMONES AUSSI POSSIBLE
FUHR LOCKS + HANDLES POSSIBLE
FUHR SCHLOSSER + HANDHEBEL AUCH

ZIE VOLGENDE PAGINA'S
VOIRE PAGIE SUIVANTE
SEE NEXT PAGES
SIEHE NACHSTE SEITE

Slot
Serrure
Lock
Hakenschloss

Slotpaden
Gâches
Receivers
Schliessbleche

1 Eénpuntsluiting met dagschieter
Fermeture à 1 point à pêne
1-Point lock with latch
Einfachverriegelung mit Falle

①2 Primaire vleugel
Première vantail
First vent
Gangfleugel

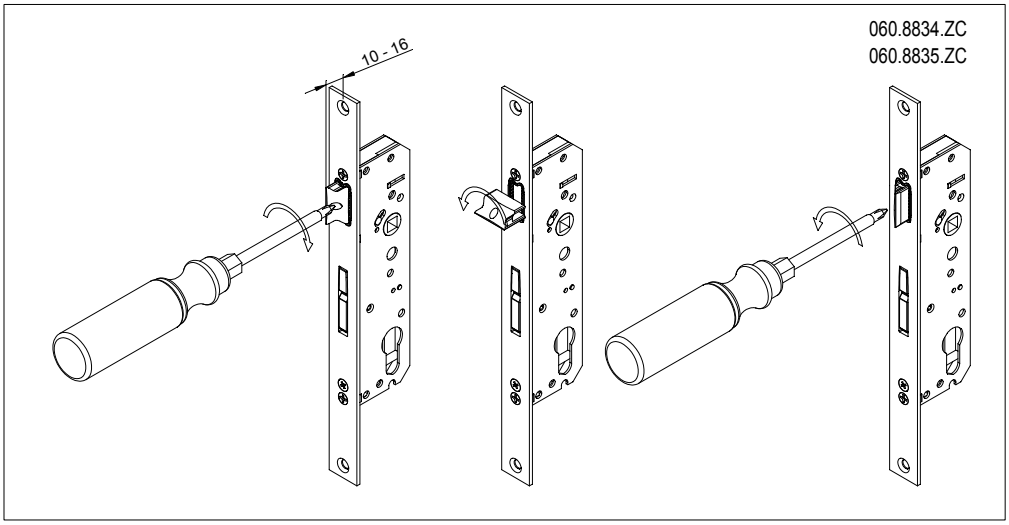
X Meerpuntssluiting
Fermeture à multi points
Mulitpoint Lock
Multifachverriegelung

1② Secundaire vleugel
Deuxieme vantail
Second vent
Standfleugel

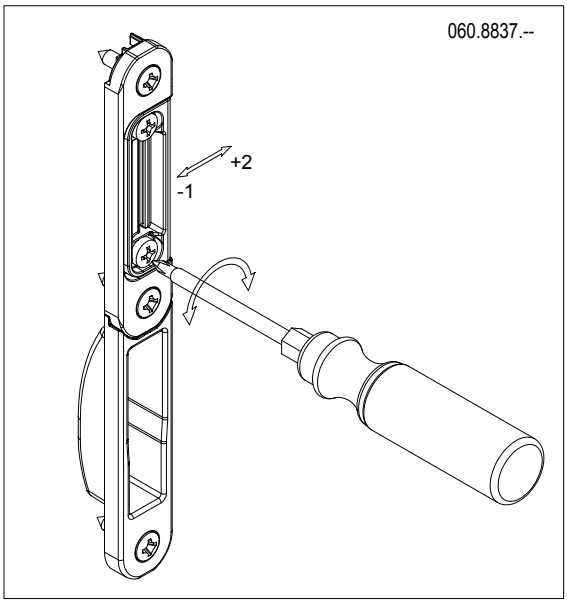
F

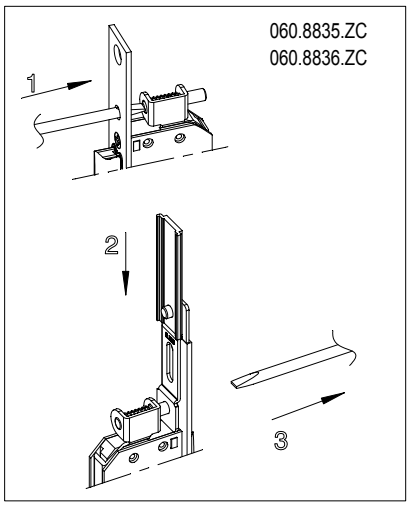
D2000111

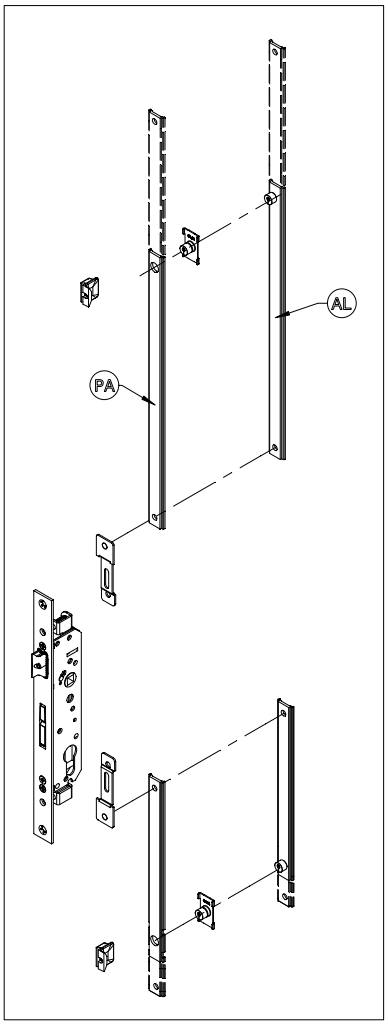
OPTIES DAGSCHIETER DIN L > DIN R
OPTIONS SERRURE A PENE DEMI-TOUR DIN L > DIN R
CATCH-LOCK OPTIONS DIN L > DIN R
FALLE OPTIONS DIN L > DIN R



AANPASSINGEN AAN SLOTPADEN
GACHE MODEFICATIONS
RECIEVER MODIFICATIONS
SCHLIESSBLECH ANPASSUNG




060.8835.ZC
060.8836.ZC
1
2
3

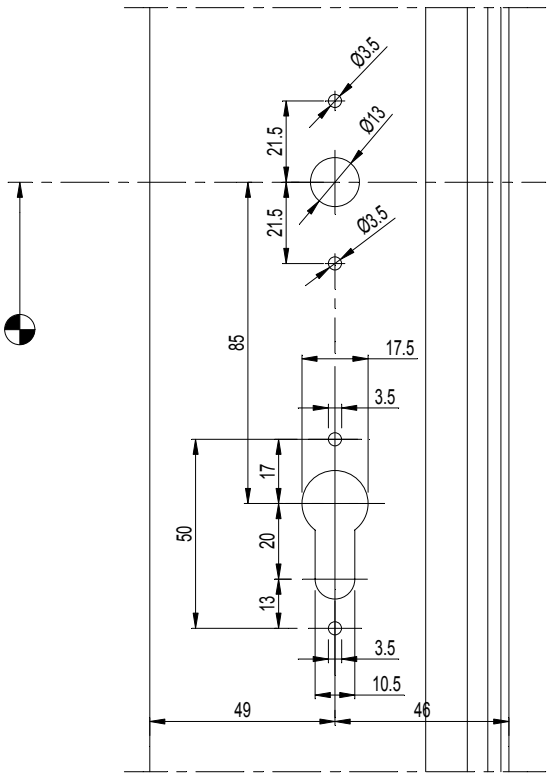

AL
PA

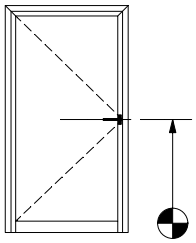
ES 45Pa

UITFREZING DEURKRUKKEN FAPIM
FRAISAGE BEQUILLES FAPIM
MILLING DOOR HANDLES FAPIM
AUSFRAESUNG TUERDRUECKER FAPIM

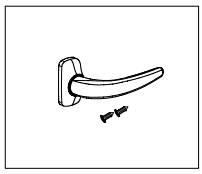
Reynaers Aluminium

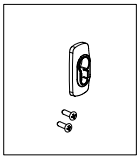
A - A





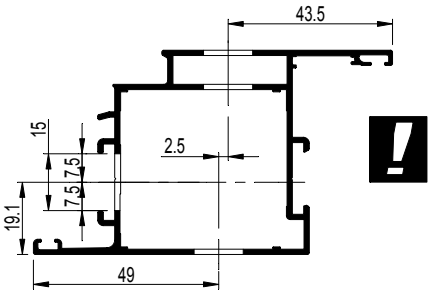
Referentiemaat
Dimension de référence
Reference dimension
Referenzmass



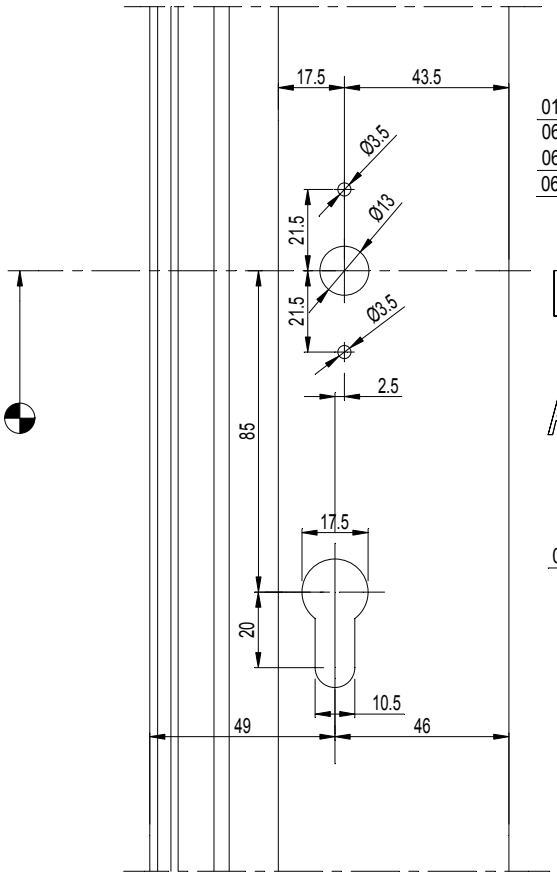


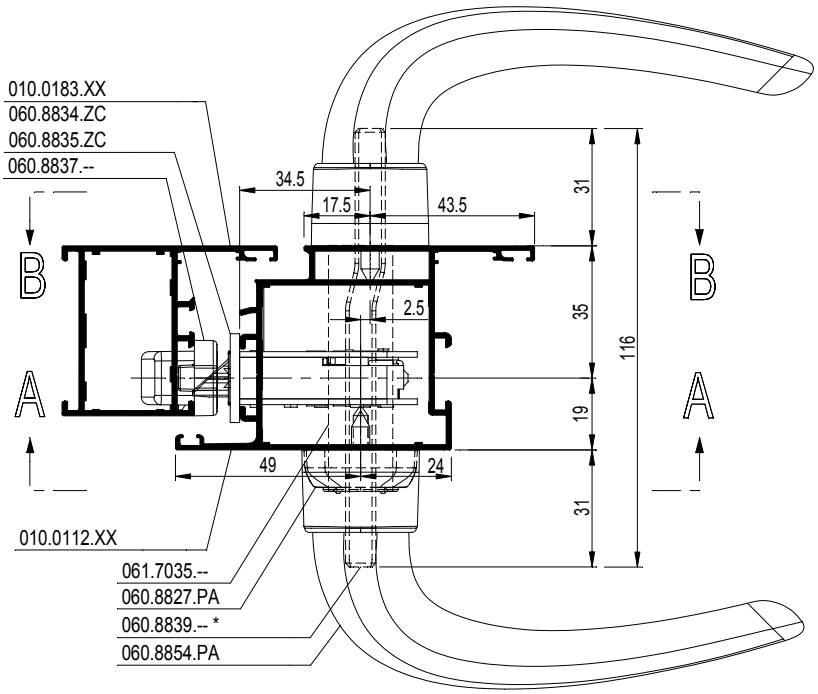
DEURKRUK BEQUILLE DOOR HANDLE TUERDRUECKER	
060.8854.PA	2 x handle
060.8827.PA	1 x cylinder cover
060.8839.-- *	1 x offset spindle
061.7035.--	1 x cylinder

* cut off the offset spindle from 150 to 116mm



B - B

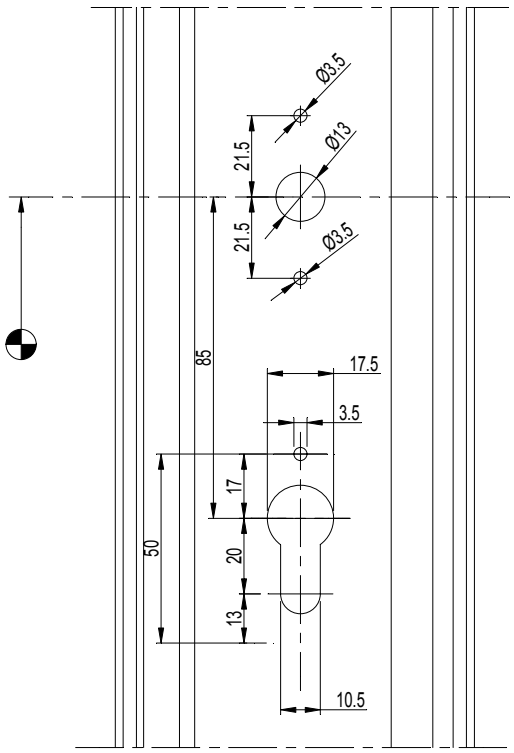


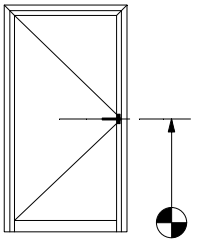


D2000090

F

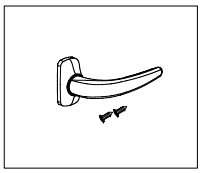
A - A

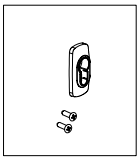


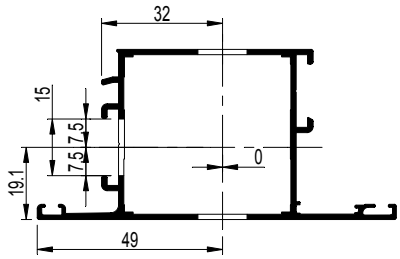


Referentiemaat
Dimension de référence
Reference dimension
Referenzmass

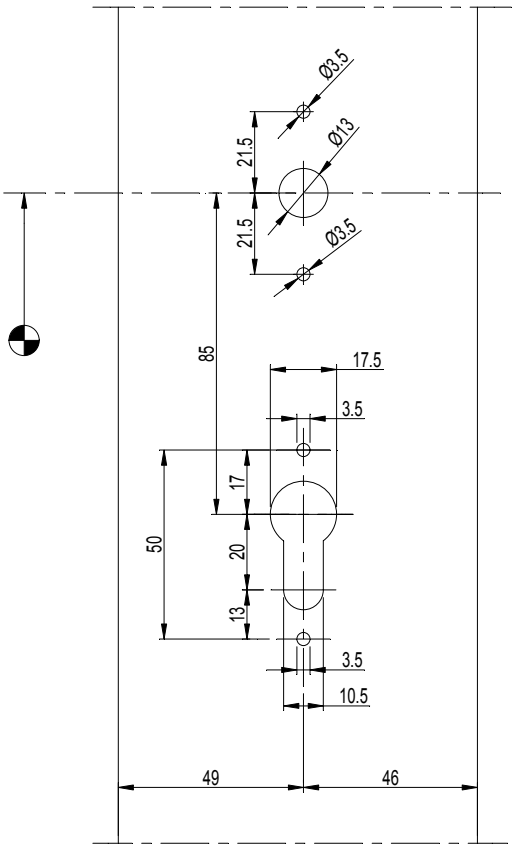
DEURKRUK BEQUILLE DOOR HANDLE TUERDRUECKER	
060.8854.PA	2 x handle
060.8827.PA	1 x cylinder cover
061.7097.--	1 x offset spindle
061.7044.--	1 x cylinder

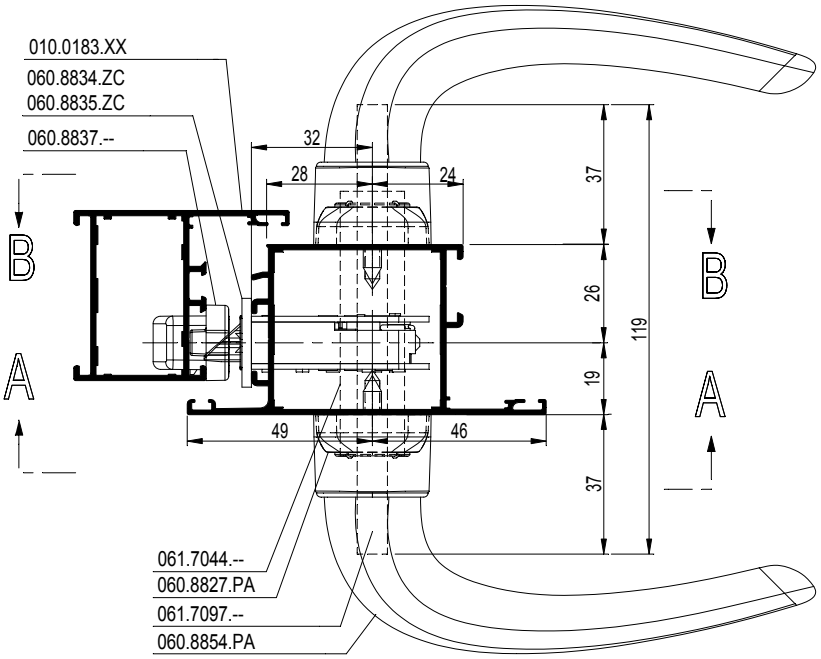






B - B





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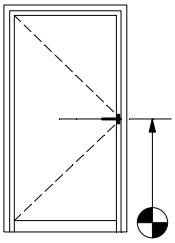
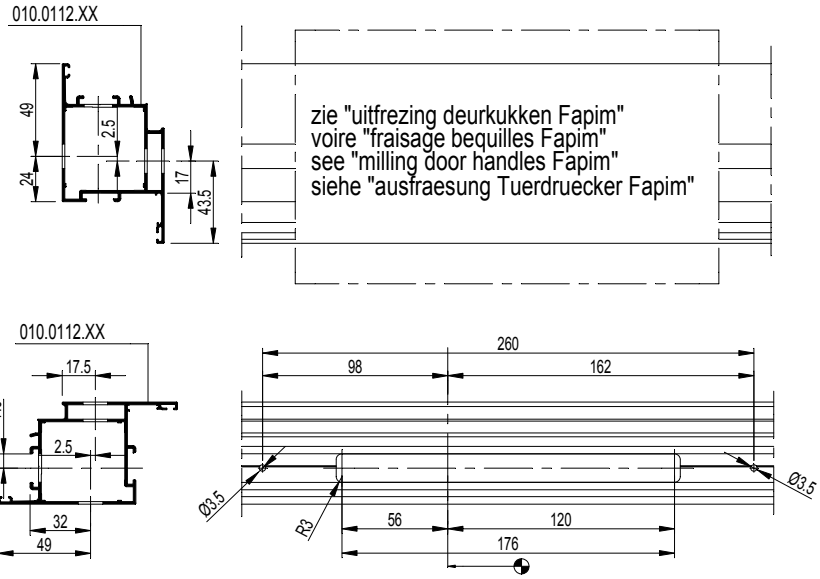
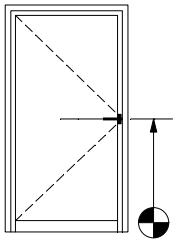
D2000090



Referentiemaat
Dimension de référence
Reference dimension
Referenzmass

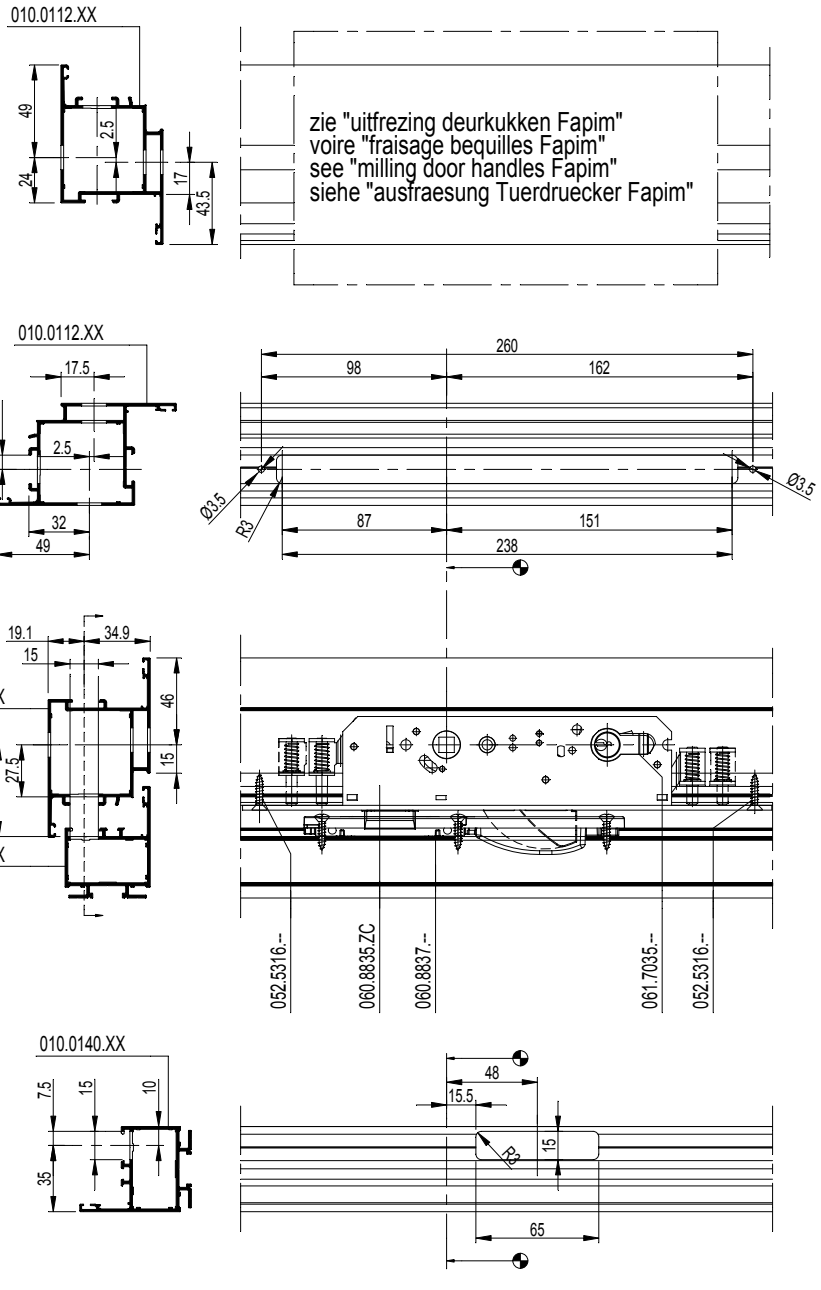
1	060.8834.ZC(DIN R or L)
	en - et - and - und
	060.8837.--(DIN R or L)

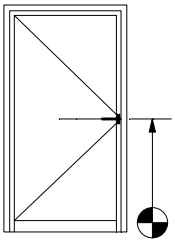




Referentiemaat
Dimension de référence
Reference dimension
Referenzmass

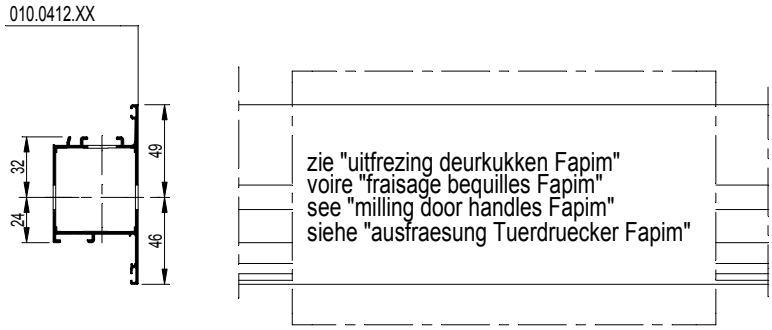
	060.8835.ZC(DIN R or L)
	en - et - and - und
	060.8837.--(DIN R or L) 060.8836.--

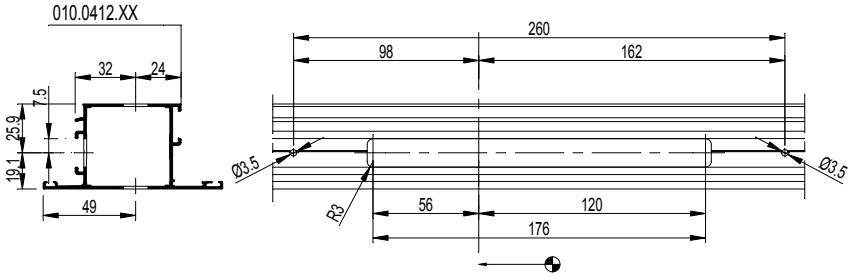


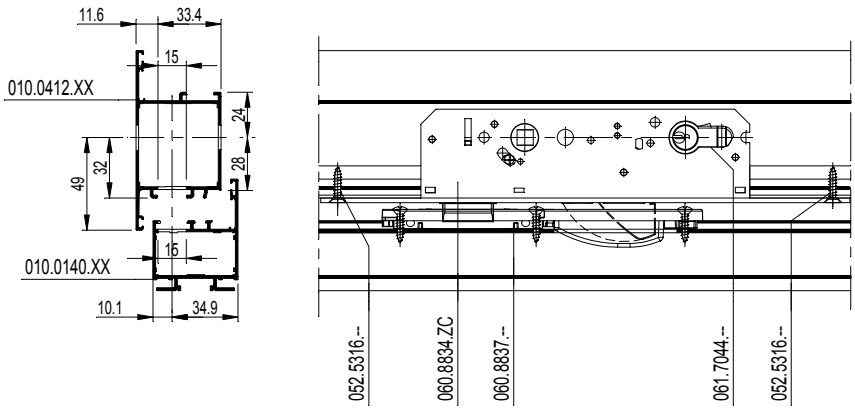


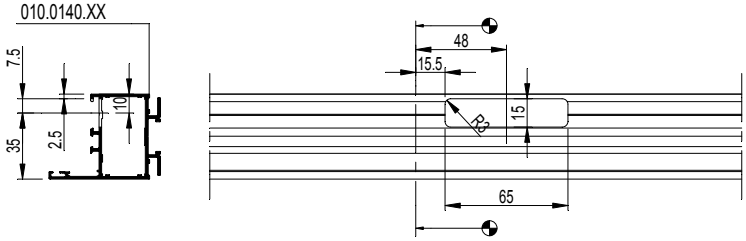
Referentiemaat
Dimension de référence
Reference dimension
Referenzmass

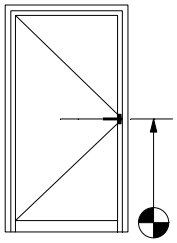
1	060.8834.ZC(DIN L or R)
	en - et - and - und
	060.8837.--(DIN L or R)





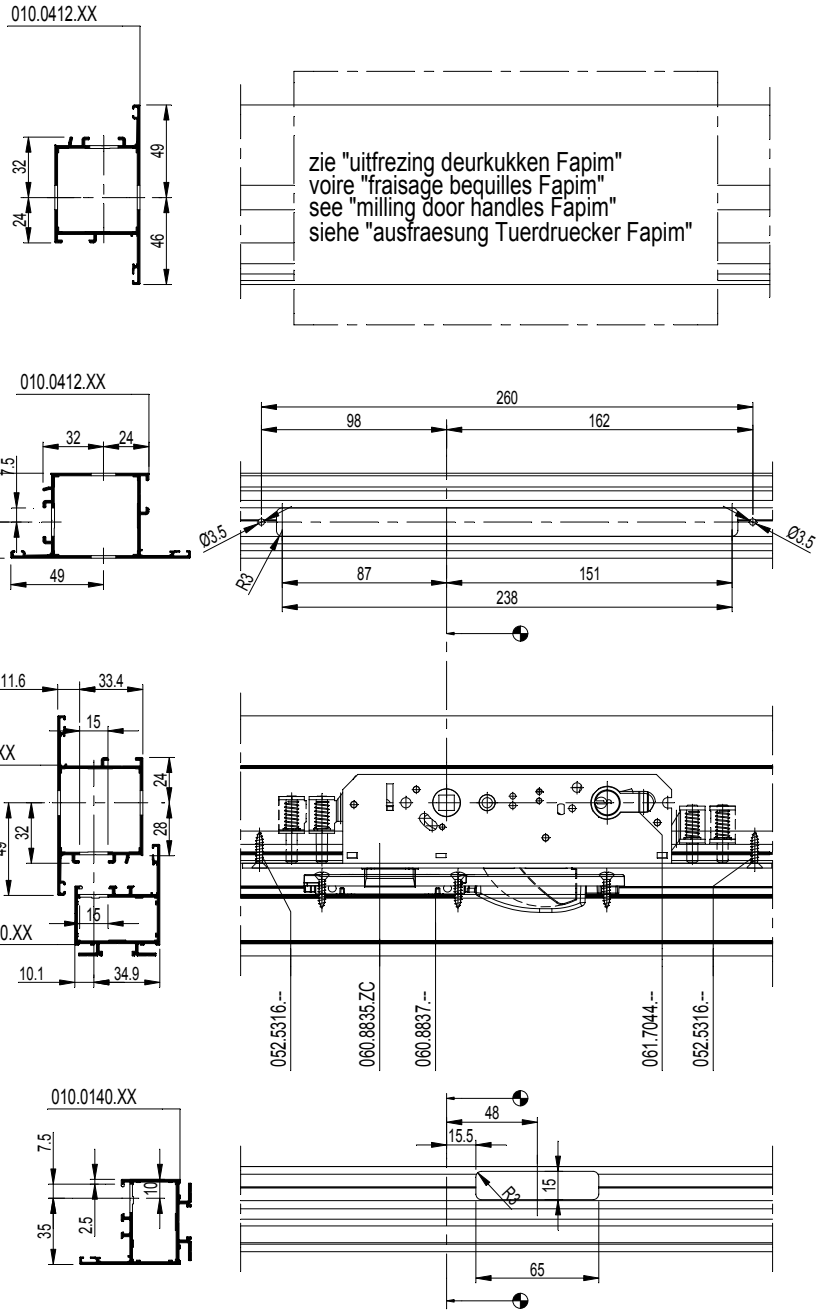






Referentiemaat
Dimension de référence
Reference dimension
Referenzmass

	060.8835.ZC(DIN L or R)
	en - et - and - und
	060.8837.--(DIN L or R) 060.8836.--



ES 45Pa

BESLISSINGSMATRIX SLOT- RAAMDEUR PZ
MATRICE DE DECISION SERRURE - PORTE-FENETRE PZ
DECISION MATRIX LOCK - WINDOW-DOOR PZ
ENTSCHEIDUNGSMATRIX SCHLOSS - FENSTERTUER PZ

1st VENT

PZ	SERIES		X		XX / X	VLEUGEL HOOGTE / HAUTEUR OUVRANT / VENT HEIGHT / FLUEGEL HOEHE	ART.REF. XXX.XXXX.ZC	TYPE	L / R
	ES 45Pa		1	1		FH < 2000	061.8525.ZC	803	DIN L / R
			3	3	35 / 8	2000 < FH < 2375	061.8503.ZC	855GL	DIN L / R
			3	3		2200 < FH < 2575	061.8513.ZC	855GL	DIN L / R
	ES 45Pa	A	3	3	35 / 8	2000 < FH < 2375	061.8531.ZC	833	DIN L / R
						2200 < FH < 2575	061.8532.ZC	833	DIN L / R

ZIE MAX AFM. PROFIEL SYSTEMEN
VOIR DIM. MAX. DES PROFILES YSTEMES
SEE MAX. PROFILE SYSTEM DIMENSIONS
SIEHE MAXIMALE PROFIL SYSTEM ABM.

ES 45Pa: GEEN T-VERBINDING AAN SLOTKAST
ES 45Pa: NE PAS UN JONCTION-T A LE COFFRE DE SERRURE
ES 45Pa: NO T-BRACKET AT THE LOCK CASE
ES 45Pa: KEIN T-VERBINDER AM SCHLOSSKASTEN

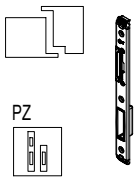
F

D3005171

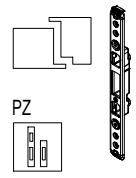
L		STANDAARD	AP	AP	AP	AP	AP	RC2 - ~~RC3~~ FP	FP	FP	FP	SP	PD	PD	BP
			SKG	SKG	SKG	RC2	RC3	EN EI1 30	EN EI2 30	EN EI1 60	EN EI2 60		EN 179	EN 1125	EN
317	L1	√	-	-	-	-	-	-	-	-	-	-	-	-	-
2170	L1 - L3	√	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	L1 - L3	√	-	-	-	-	-	-	-	-	-	-	-	-	-
2170	L1 - L3	√	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	L1 - L3	√	-	-	-	-	-	-	-	-	-	-	-	-	-

BESLISSINGSMATRIX SLOTPAD
MATRICE DE DECISION GACHE
DECISION MATRIX RECEIVER
ENTSCHEIDUNGSMATRIX SCHLIESSBLECH

1st VENT

 PZ	SERIE
	ES 45Pa
061.8525.ZC	061.8155.-- (DIN L) / 061.8156.-- (DIN R)
061.8503.ZC	061.8155.-- (DIN L) / 061.8156.-- (DIN R)
061.8513.ZC	061.8155.-- (DIN L) / 061.8156.-- (DIN R)
061.8531.ZC	061.8155.-- (DIN L) / 061.8156.-- (DIN R)
061.8532.ZC	061.8155.-- (DIN L) / 061.8156.-- (DIN R)

1st VENT

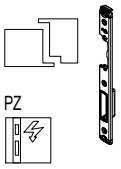
 PZ	SERIE
	ES 45Pa
061.8525.ZC	-
061.8503.ZC	061.8181.-- (2x)
061.8513.ZC	061.8181.-- (2x)
061.8531.ZC	061.8777.-- (2x) + 061.8778.04 (1x)
061.8532.ZC	061.8777.-- (2x) + 061.8778.04 (1x)

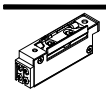
D3005172

		AP	AP	AP	AP	AP	RC2 - ~~RC3~~ FP	FP	FP	FP	SP	PD	PD	BP
					RC2	RC3	EN EI1 30	EN EI2 30	EN EI1 60	EN EI2 60		EN 179	EN 1125	EN
U	R2	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R2	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R2	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R2	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R2	-	-	-	-	-	-	-	-	-	-	-	-	-

		AP	AP	AP	AP	AP	RC2 - ~~RC3~~ FP	FP	FP	FP	SP	PD	PD	BP
					RC2	RC3	EN EI1 30	EN EI2 30	EN EI1 60	EN EI2 60		EN 179	EN 1125	EN
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R5	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R5	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R4	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R4	-	-	-	-	-	-	-	-	-	-	-	-	-

1st VENT

 PZ	SERIE
	ES 45Pa
061.8525.ZC	061.8195.-- (DIN L) / 061.8196.-- (DIN R) + E - STRIKE
061.8503.ZC	061.8195.-- (DIN L) / 061.8196.-- (DIN R) + E - STRIKE
061.8513.ZC	061.8195.-- (DIN L) / 061.8196.-- (DIN R) + E - STRIKE
061.8531.ZC	-
061.8532.ZC	-



DOOR OPENER ELECTRIC (ARBEIDSSTROOM / COURANT DE TRAVAIL / FAIL SECURE / ARBEITSSTROM)		
	DOOR OPENER WINDOW DOOR (12 - 48V AC/DC)	061.6210.-- (1x)
	DOOR OPENER WITH MONITORING CONTACT WINDOW DOOR (12 - 48V AC/DC)	061.6212.-- (1x)
DOOR OPENER ELECTRIC (RUSTSTROOM / COURANT PERMANENT / FAIL SAFE / RUHESTROM)		
	DOOR OPENER WINDOW DOOR (12 - 24V DC)	061.6211.-- (1x)
	DOOR OPENER WITH MONITORING CONTACT WINDOW DOOR (12 - 24V DC)	061.6213.-- (1x)
SYNTHETIC PLUG		061.8312.04

ES 45Pa

BESLISSINGSMATRIX SLOTPAD ELEKTRISCH - RAAMDEUR PZ
MATRICE DE DECISION GACHE ELECTRIQUE - FENETRE-PORTE PZ
DECISION MATRIX RECEIVER ELEKTRISCHES - WINDOW-DOOR PZ
ENTSCHEIDUNGSMATRIX SCHLIESSBLECH ELECTRIC - FENSTERTUER PZ

		AP	AP	AP	AP	AP	RC2 - ~~RC3~~ FP	FP	FP	FP	SP	PD	PD	BP
		SKG	SKG	SKG	RC2	RC3	EN EI1 30	EN EI2 30	EN EI1 60	EN EI2 60		EN 179	EN 1125	EN
U	R3 - (R15 - R16)	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R3 - (R15 - R16)	-	-	-	-	-	-	-	-	-	-	-	-	-
U	R3 - (R15 - R16)	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

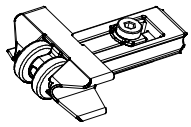
NIET MET AUTOMATISCHE DEURSYSTEMEN
NE PAS AVEC SYSTEMES AUTOMATIQUE
NOT WITH AUTOMATIC DOORSYSTEMS
NICHT MIT AUTOMATISCHE TURSYSTEME

GEEN REYNAERS PRODUCT - NIET ONDERSTEUND
PAS UN PRODUIT DE REYNAERS - NON SUPPORTE
NO REYNAERS PRODUCT - NOT SUPPORTED
KEIN REYNAERS PRODUKT - NICHT UNTERSTUTZT

VEREIST TESTEN!!
NECESSITE DES TEST!!
REQUIRES TESTING!!
ERFORDERT TESTS!!

F

1st VENT

PZ +		
061.8525.ZC	061.7786.-- (1x)	061.8164.04 (1x)
061.8503.ZC	061.7786.-- (1x)	061.8164.04 (1x)
061.8513.ZC	061.7786.-- (1x)	061.8164.04 (1x)
061.8531.ZC	-	-
061.8532.ZC	-	-

D3005174

						RC2 - ~~RC3~~							
	AP	AP	AP	AP	AP	EN EI1 30 FP	EN EI2 30 FP	EN EI1 60 FP	EN EI2 60 FP	SP	EN 179 PD	EN 1125 PD	EN BP
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

F

D3005174

UITFREZING SLOT 2000 < FH < 2200 - L1 L3 R2 R3 R4 R5
FRAISAGE FERMETURE 2000 < FH < 2200 - L1 L3 R2 R3 R4 R5
MILLING LOCK 2000 < FH < 2200 - L1 L3 R2 R3 R4 R5
AUSFRAESUNG SCHLOSS 2000 < FH < 2200 - L1 L3 R2 R3 R4 R5

Reynaers Aluminium

A3R

UITFREZING SLOT FH > 2200 - (L1 L3 R2 R3 R4 R5)
FRAISAGE FERMETURE FH > 2200 - (L1 L3 R2 R3 R4 R5)
MILLING LOCK FH > 2200 - (L1 L3 R2 R3 R4 R5)
AUSFRAESUNG SCHLOSS FH > 2200 - (L1 L3 R2 R3 R4 R5)

Reynaers Aluminium

A3R

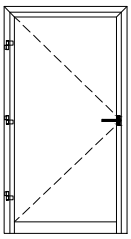
E-OPENER : UITFREZING BEDRADING - R15
GACHE ELEC. : FRAISAGE CABLAGE - R15
E-OPENER : MILLING WIRING - R15
E-OEFFNER : AUSFRAESUNG VERDRAHTUNG - R15

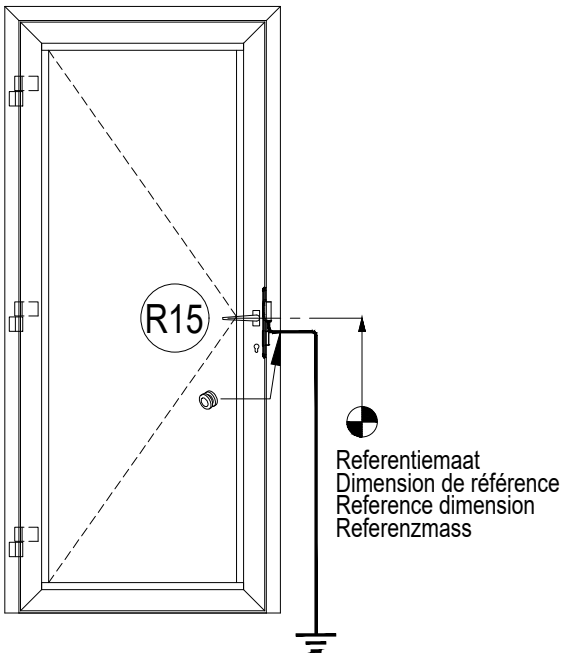
Reynaers Aluminium

D3005185

ES 45Pa

E-OPENER : UITFREZING BEDRADING - R15
GACHE ELEC. : FRAISAGE CABLAGE - R15
E-OPENER : MILLING WIRING - R15
E-OEFFNER : AUSFRAESUNG VERDRAHTUNG - R15

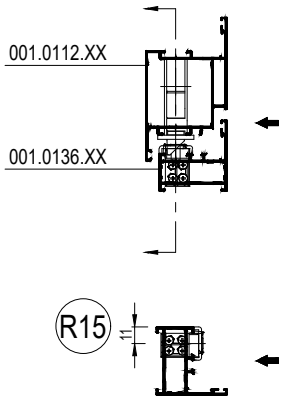


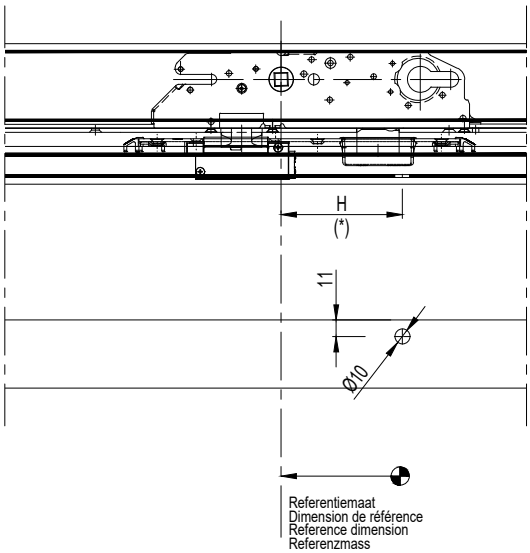


R15

(*) AFHANKELIJK VAN ELEKTRISCHE VERBINDING
EN FONCTION DE CONNEXION ELECTRIQUE
DEPENDING ON ELECTRICAL CONNECTION
ABHANGIG VON ELEKTRISCHE VERBINDUNG

ES 45Pa



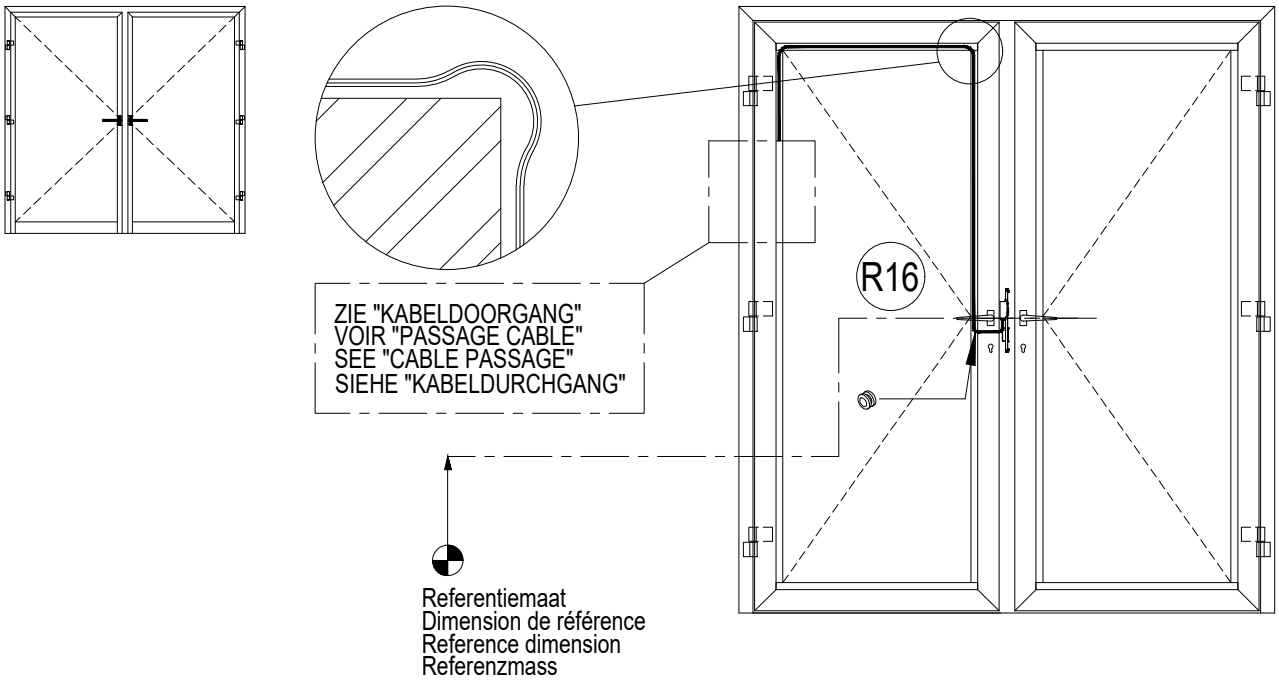


F

D3005185

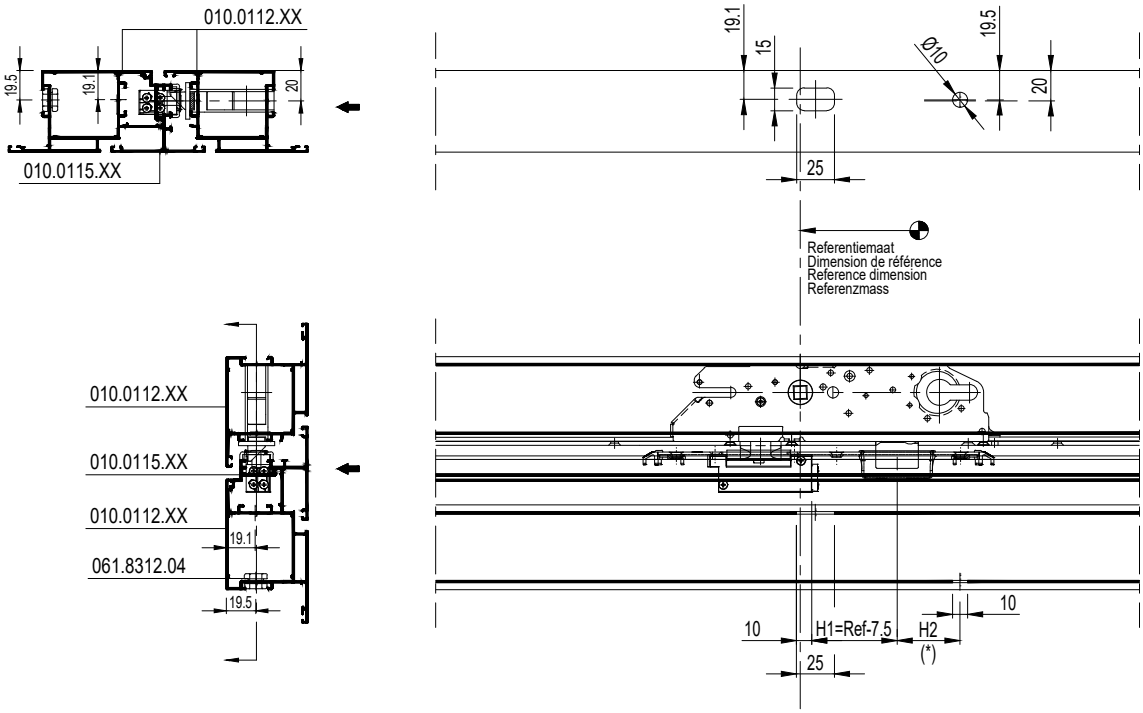
ES 45Pa

E-OPENER : UITFREZING BEDRADING - R16
GACHE ELEC. : FRAISAGE CABLAGE - R16
E-OPENER : MILLING WIRING - R16
E-OEFFNER : AUSFRAESUNG VERDRAHTUNG - R16



(*) AFHANKELIJK VAN ELEKTRISCHE VERBINDING
EN FONCTION DE CONNEXION ELECTRIQUE
DEPENDING ON ELECTRICAL CONNECTION
ABHANGIG VON ELEKTRISCHE VERBINDUNG

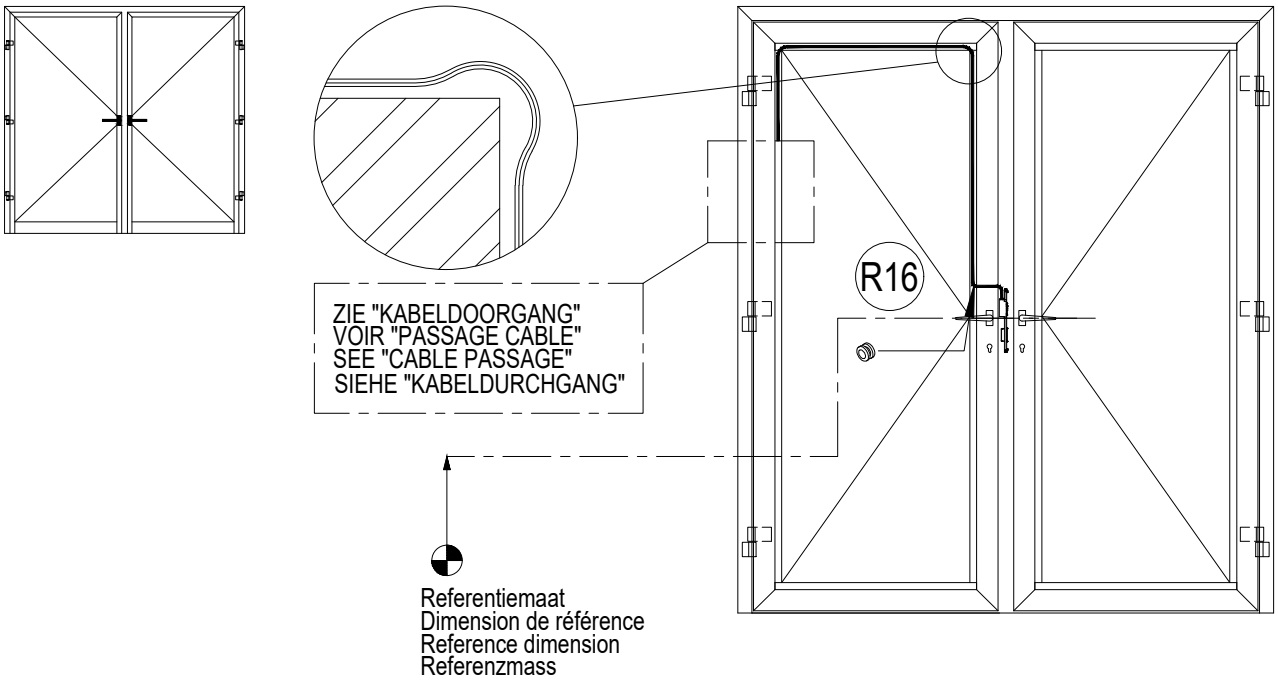
ES 45Pa R16



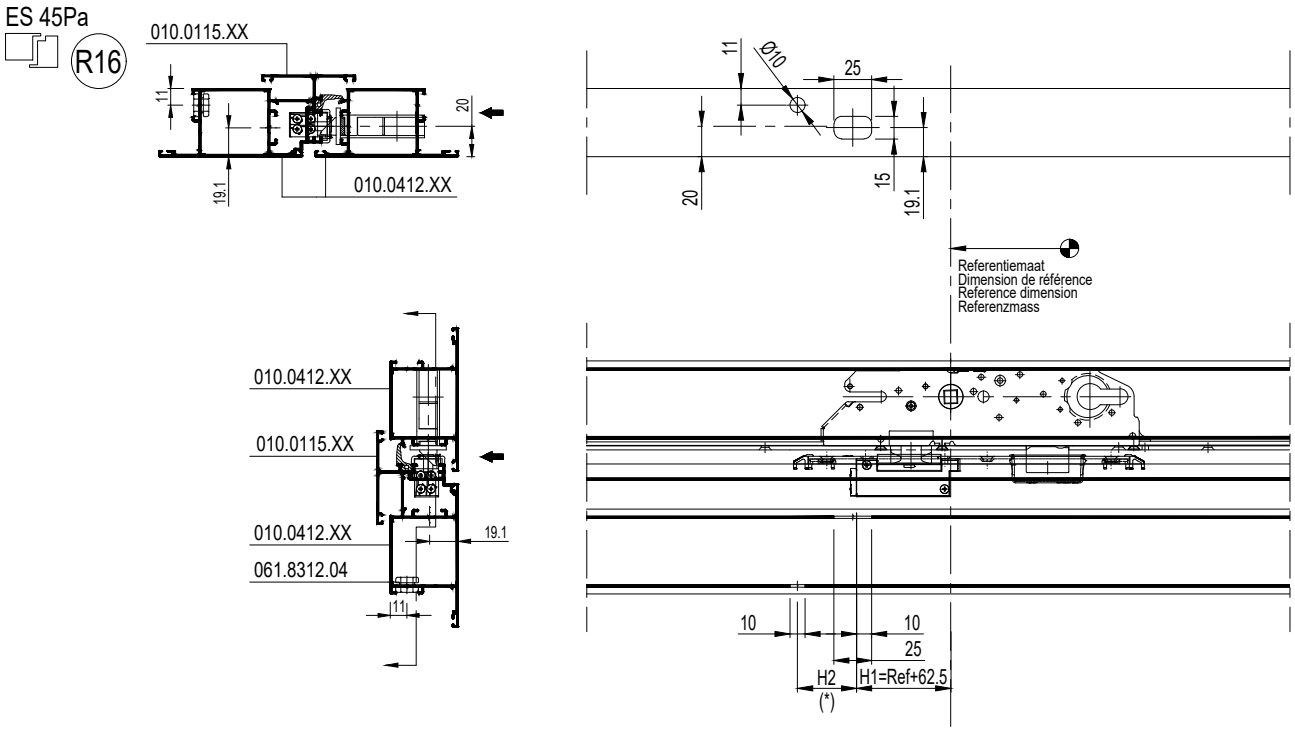
D3005188

ES 45Pa

E-OPENER : UITFREZING BEDRADING - R16
GACHE ELEC. : FRAISAGE CABLAGE - R16
E-OPENER : MILLING WIRING - R16
E-OEFFNER : AUSFRAESUNG VERDRAHTUNG - R16



(*) AFHANKELIJK VAN ELEKTRISCHE VERBINDING
EN FONCTION DE CONNEXION ELECTRIQUE
DEPENDING ON ELECTRICAL CONNECTION
ABHANGIG VON ELEKTRISCHE VERBINDUNG

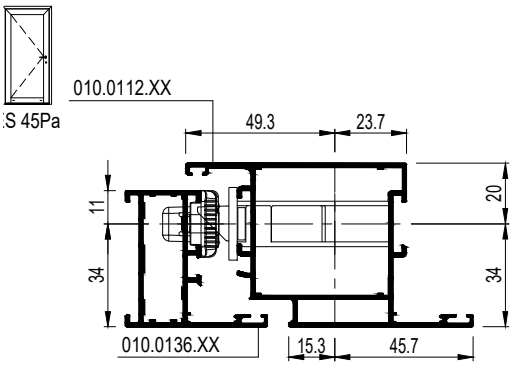


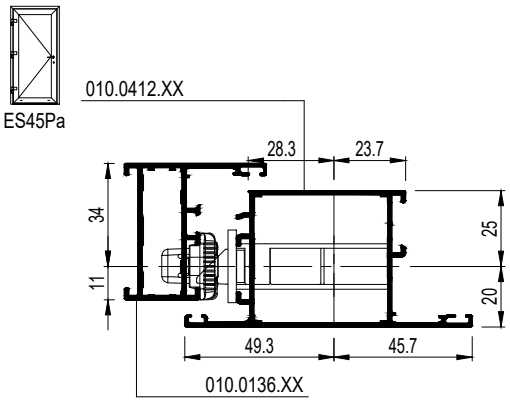
F

D3005188

ES 45Pa

UITFREZING SLOT FUHR : DIMENSIES
FRAISAGE FERMETURE FUHR : DISTANCES
MILLING LOCK FUHR : DIMENSIONS
AUSFRAESUNG SCHLOSS FUHR : ABMESSUNGEN

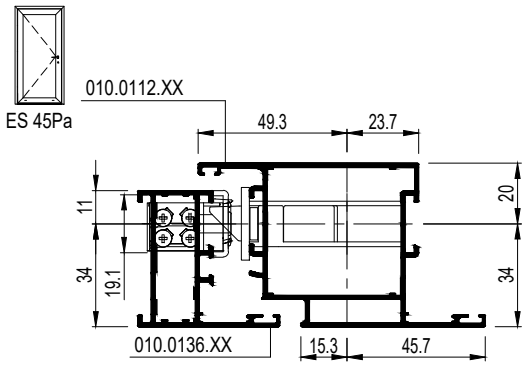


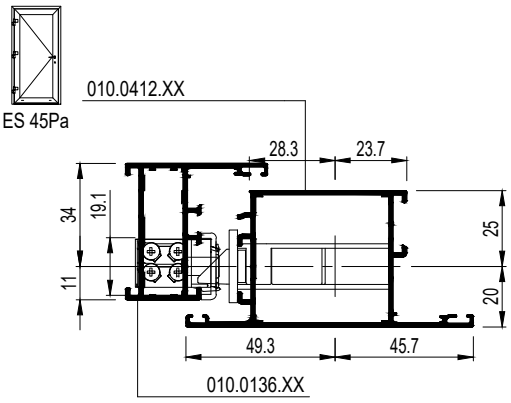


F

ES 45Pa

E-OPENER DIMENSIES
GACHE ELEC. DISTANCES
E-OPENER DIMENSIONS
E-OEFFNER ABMESSUNGEN



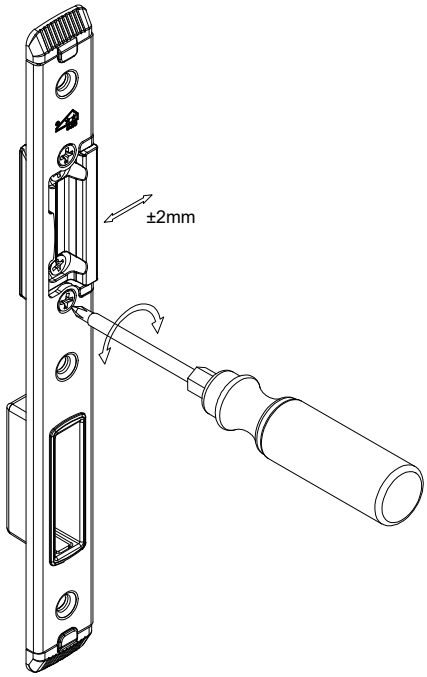


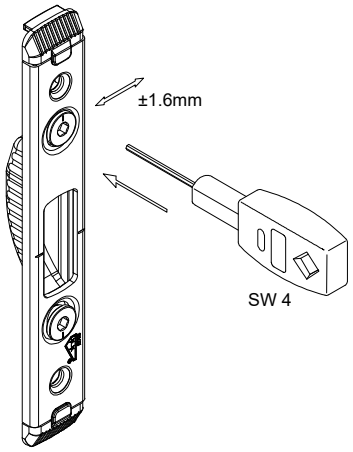
F

ES 45Pa

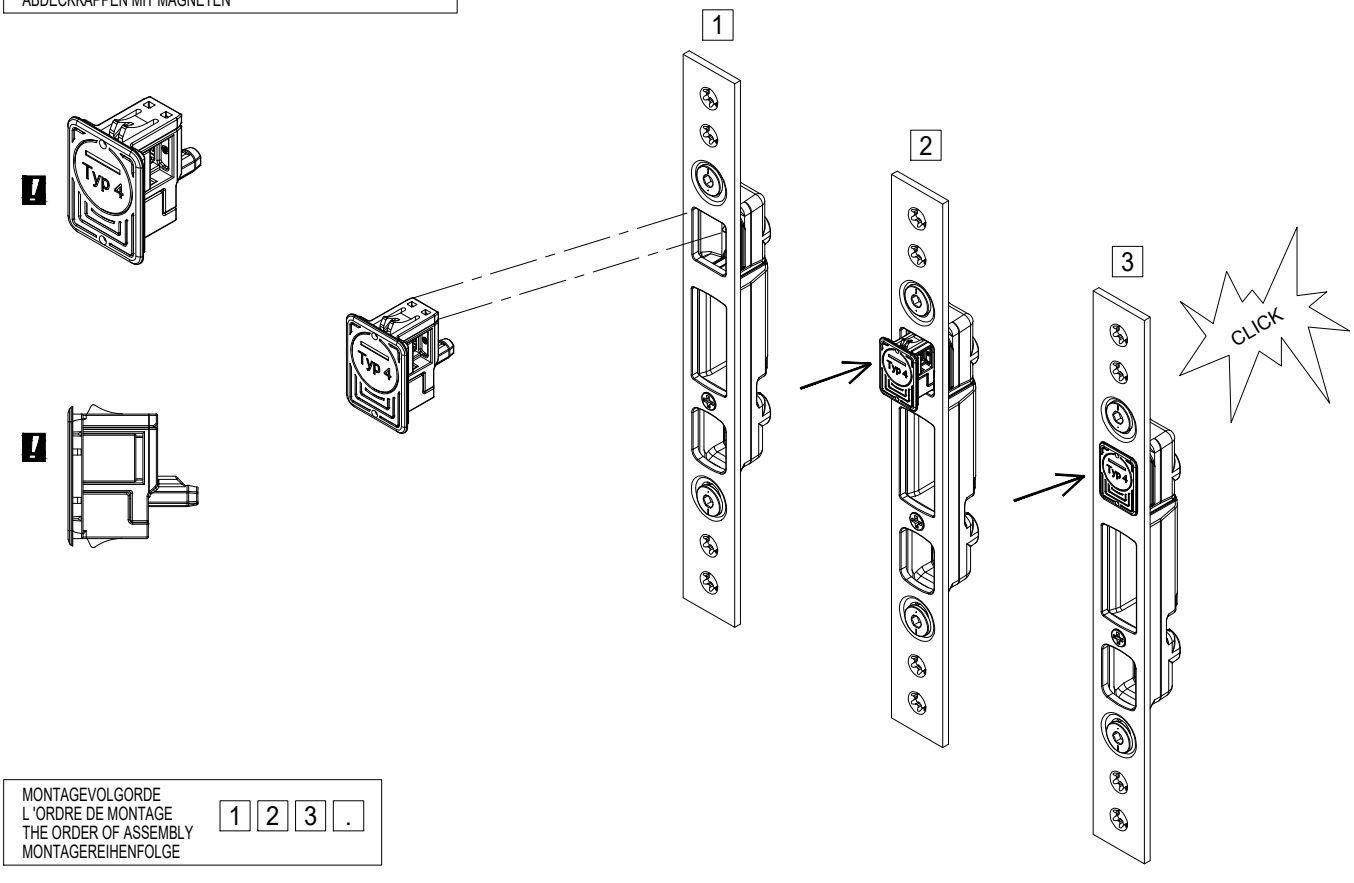
REGELING
REGLAGE
ADJUSTMENT
RIEGELLUNG

AANPASSINGEN AAN SLOTPADEN
GACHE MODEFICATIONS
RECEIVER MODIFICATIONS
SCHLIESSBLECH ANPASSUNG





AFDEKKAPPEN MET MAGNETEN
CAPUCHONS AVEC AIMANTS
COVERS WITH MAGNETS
ABDECKKAPPEN MIT MAGNETEN
061.8778.04



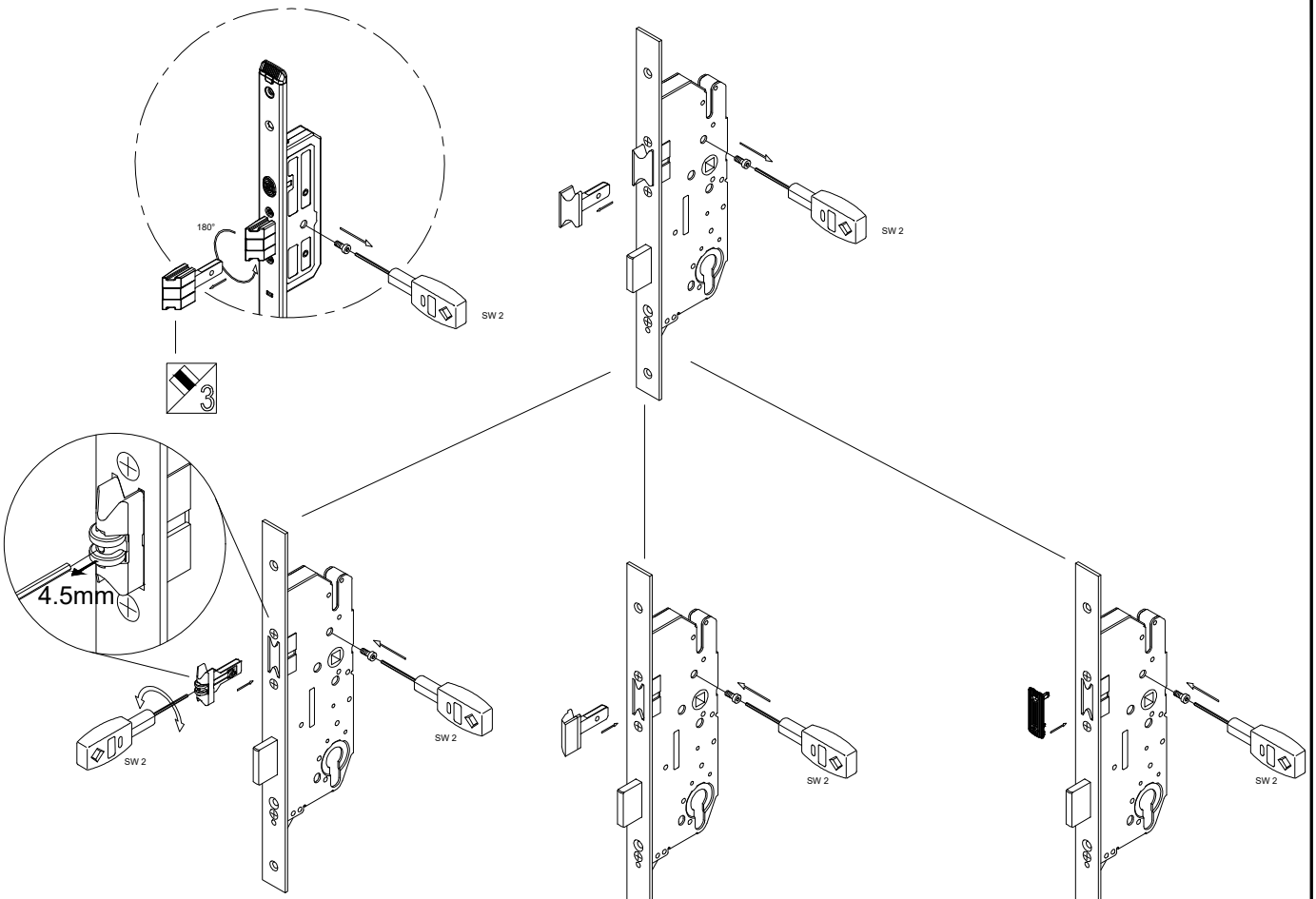
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

D3005193

F

OPTIES DAGSCHIETER
OPTIONS SERRURE A PENE DEMI-TOUR
CATCH-LOCK OPTIONS
FALLE OPTIONS

OPTION 1 : ROLL LATCH	855GL / 803
OPTION 2 : LATCH DIN L -> DIN R	855GL / 803 / 833
OPTION 3 : COVER PLATE	855GL / 803

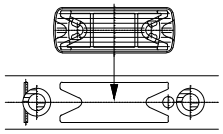


OPTION 1 : ROLL LATCH

NIET VOOR PANIEKDEUR
NE PAS POUR PORTE DE PANIQUE
NOT FOR PANIC DOOR
NICHT FUR PANIKTUER

OPTION 2 : LATCH DIN L > DIN R

OPTION 3 : COVER PLATE



NIET VOOR PANIEKDEUR
NE PAS POUR PORTE DE PANIQUE
NOT FOR PANIC DOOR
NICHT FUR PANIKTUER

OPTION 1 : ROLL LATCH	
RAAMDEUR ES 45Pa PORTE FENETRE ES 45Pa WINDOW DOOR ES 45Pa FENSTER TUER ES 45Pa	061.7786.--

F

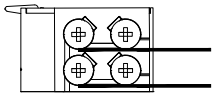
D3005193

ELEKTRISCHE AANSLUITING
FIXATION ELECTRIQUE
ELEKTRIC CONNECTION
ELEKTRISCHES ANSCHLUSS

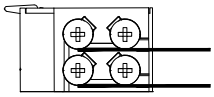
CURRENT 12-48V AC/DC	REYNAERS REF.
	061.6210.--
	061.6212.--(*)

CURRENT 12-24V DC	REYNAERS REF.
	061.6211.--
	061.6213.--(*)

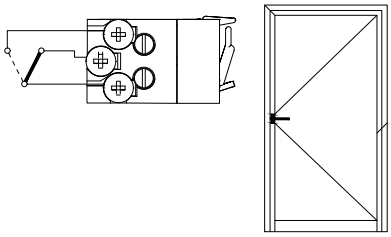
(*) SIGNAL CONTACT	REYNAERS REF.
	061.6212.--
	061.6213.--

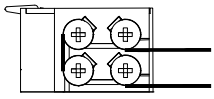


VOLT AC/DC	AMP.	
10.2-13.8 12-24	0.2 0.2-0.4	∞ < 1min

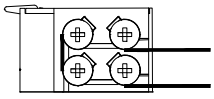


VOLT AC/DC	AMP.	
10.2-13.8	0.2	∞

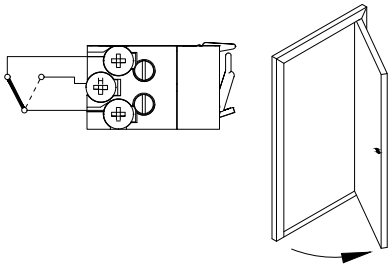




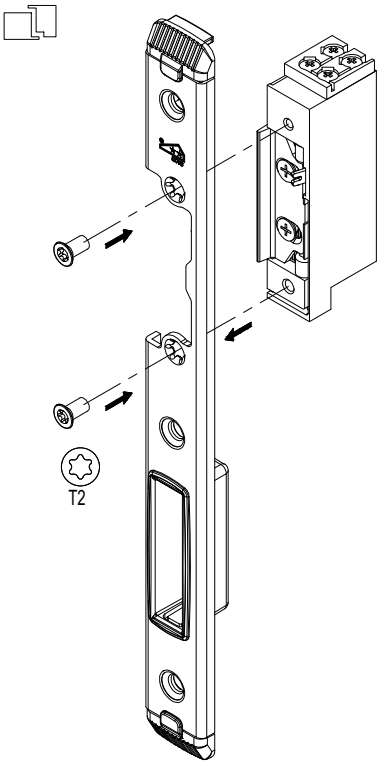
VOLT AC/DC	AMP.	
20.4-27.6 24-48	0.1 0.1-0.2	∞ < 1min



VOLT AC/DC	AMP.	
20.4-27.6	0.1	∞



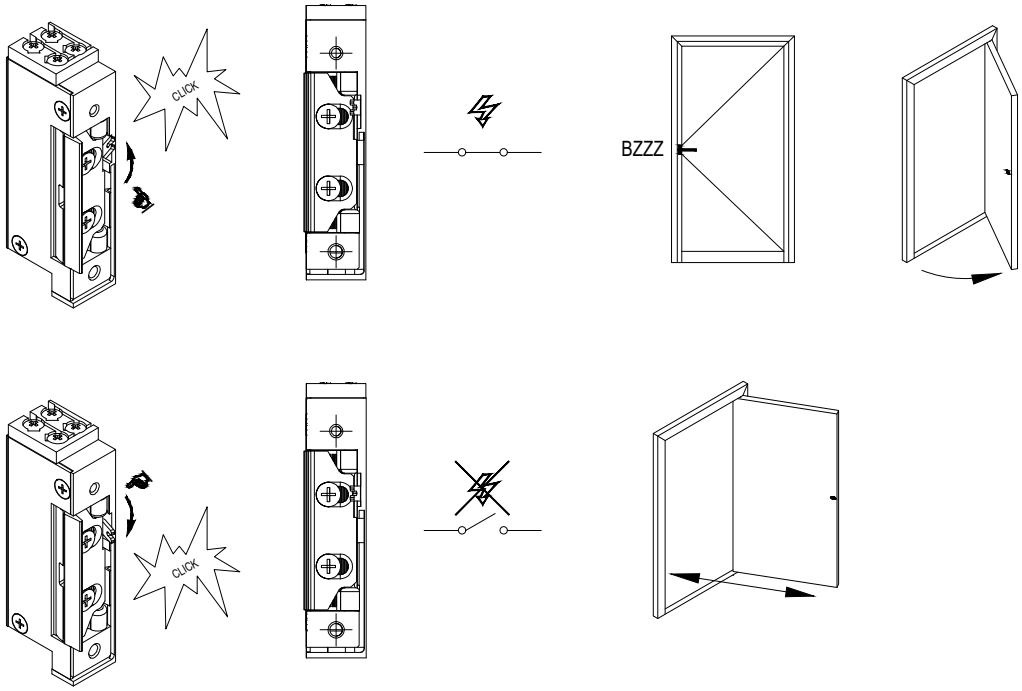
MONTAGE E-OPENER
ASSEMBLAGE GACHE ELECTRIQUE
ASSEMBLY E-OPENER
MONTAGE E-OEFFNER



D3005194

F

MECHANISCHE VERGRENDELING
VEROUILLAGE MECANIQUE
MECHANICAL INTERLOCKING
MECHANISCHE VERRIEGELUNG



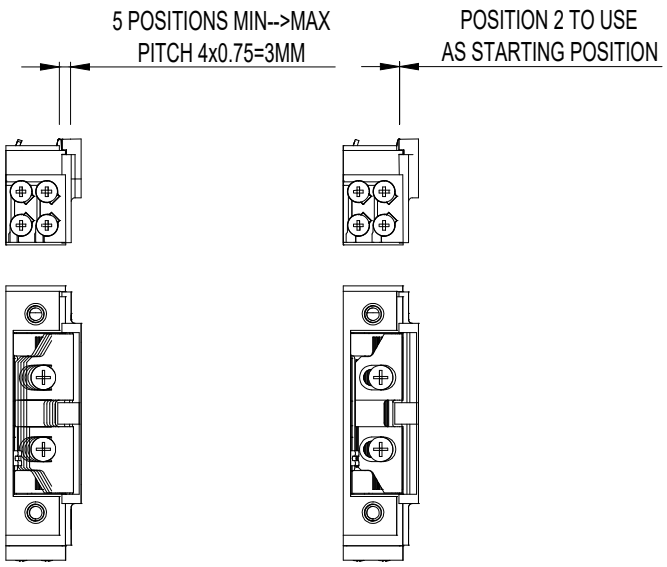
F

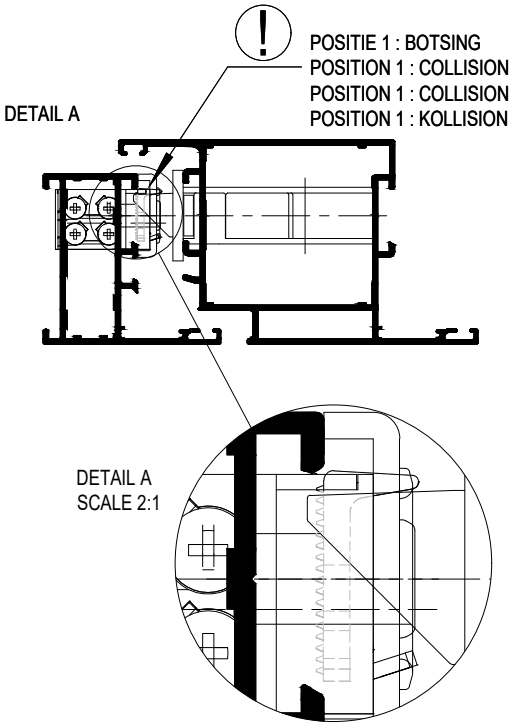
D3005194

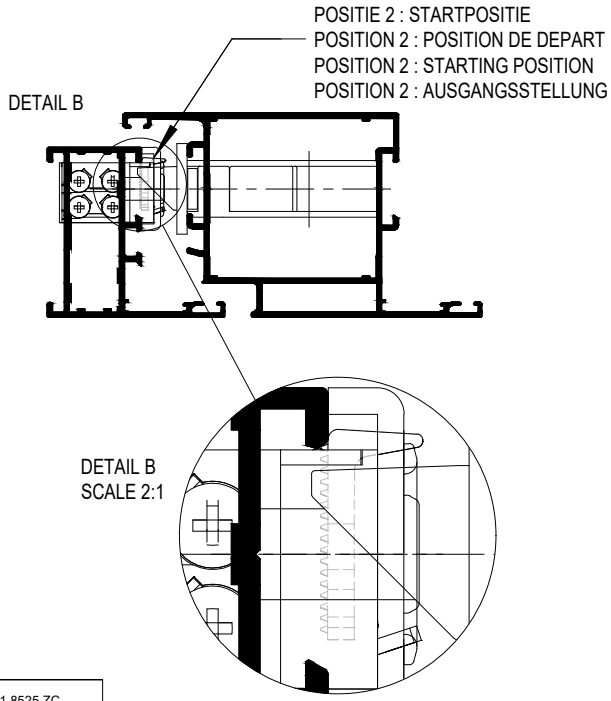
E-OPENER : BEDRADING + INSTELLING
GACHE ELEC. : CABLAGE + AJUSTMENT
E-OPENER : WIRING + ADJUSTMENT
E-OEFFNER : VERDRAHTUNG + VERRIEGELUNG

D3005195

DAGSCHIETER E-OPENER : INSTELLING
PENE GACHE ELECTRIQUE : AJUSTEMENT
LATCH E-OPENER : ADJUSTMENT
FALLE E-OEFFNER : VERRIEGELUNG







RAAMDEUR/PORTE FENETRE/WINDOW DOOR/FENSTER TUER		
SYSTEEM SYSTEME SYSTEM SYSTEM	ES 45Pa	010.0183.XX
		010.0140.XX
		010.0114.XX
		010.0120.XX

061.8525.ZC
061.8503.ZC
061.8513.ZC

F

D3005195

TOUCH DEURKRUKKEN - BESLISSINGSMATRIX
TOUCH BEQUILLES - MATRICE DE DECISION
TOUCH DOOR HANDLES - DECISION MATRIX
TOUCH TUERDRUECKERS - ENTSCHEIDUNGSMATRIX

Reynaers Aluminium

BEVESTIGINGSSET + VIERKANTSTIFT SET DE FIXATION + TIGE FIXATION SET + SPINDLE BEFESTIGUNGSSATZ + DRUCKERSTIFT			#
		ES 45Pa	
		061.7096.--	1
		050.5082.--	3
		061.7096.-- SAW 9MM OFF	1
		050.5004.--	3
		061.7096.-- SAW 3MM OFF	1
		050.5082.--	3
		061.7095.--	1
		050.5004.--	3
		061.7094.--	1
		050.5082.--	3
		061.7094.--	1
		050.5004.--	3
		061.7094.--	1
		050.5011.-- 057.5711.--	3
		061.7094.--	1
		050.5011.-- 057.5711.--	3

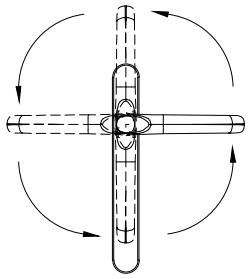
BEVESTIGINGSSET + VIERKANTSTIFT SET DE FIXATION + TIGE FIXATION SET + SPINDLE BEFESTIGUNGSSATZ + DRUCKERSTIFT			#
		ES 45Pa	
		061.7096.--	1
		050.5011.-- 057.5711.--	2
		052.5316.--	2
		061.7096.-- SAW 9MM OFF	1
		050.5011.-- 057.5711.--	2
		052.5316.--	2
		061.7096.-- SAW 3MM OFF	1
		050.5011.-- 057.5711.--	2
		052.5316.--	2
		061.7095.--	1
		050.5011.-- 057.5711.--	2
		052.5316.--	2
		061.7094.--	1
		050.5011.-- 057.5711.--	2
		052.5316.--	2
		061.7094.--	1
		050.5011.-- 057.5711.--	2
		052.5316.--	2

F

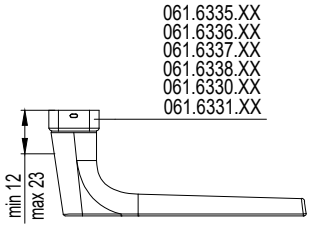
D3005209

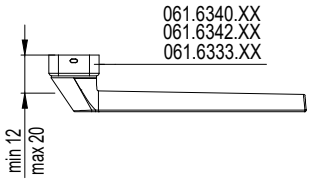
POSITIE
POSITION
POSITION
POSITION

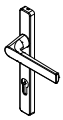
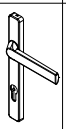
360°: 4x90°



STIFT DIEPTE
TIGE PROFONDEUR
SPINDLE DEPTH
POSITION TIEFE





	BINNEN INTERIEUR INDOOR INNEN		BUITEN EXTERIEUR OUTDOOR AUSSEN	
	DIN L	DIN R	DIN L	DIN R
	061.6335.XX 061.6337.XX	061.6335.XX 061.6337.XX	061.6336.XX 061.6338.XX	061.6336.XX 061.6338.XX
			061.6340.XX 061.6342.XX	061.6340.XX 061.6342.XX
			061.6344.XX 061.6346.XX	061.6344.XX 061.6346.XX

	BINNEN INTERIEUR INDOOR INNEN		BUITEN EXTERIEUR OUTDOOR AUSSEN		CYLINDERPLAAT ECUSSON CYLINDER COVER PZ-ROZETTE
	DIN L	DIN R	DIN L	DIN R	
	061.6330.XX	061.6330.XX	061.6331.XX	061.6331.XX	061.6334.XX
			061.6333.XX	061.6333.XX	

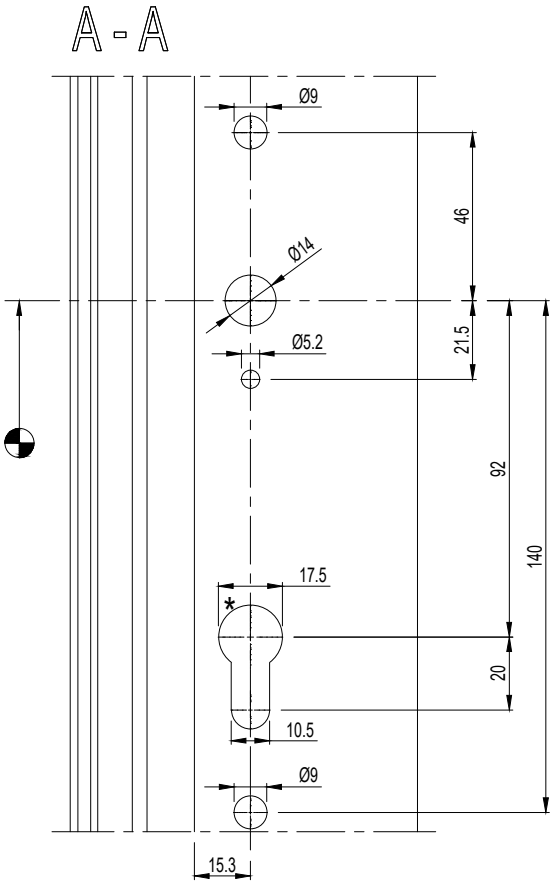
F

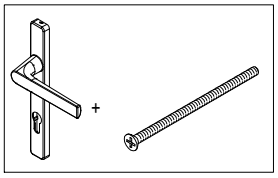
D30052O9

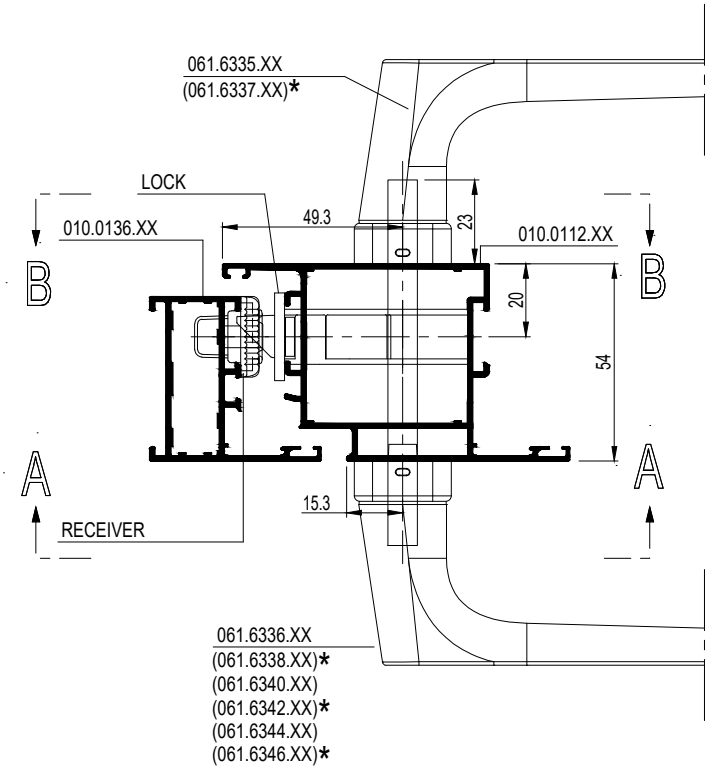
ES 45Pa

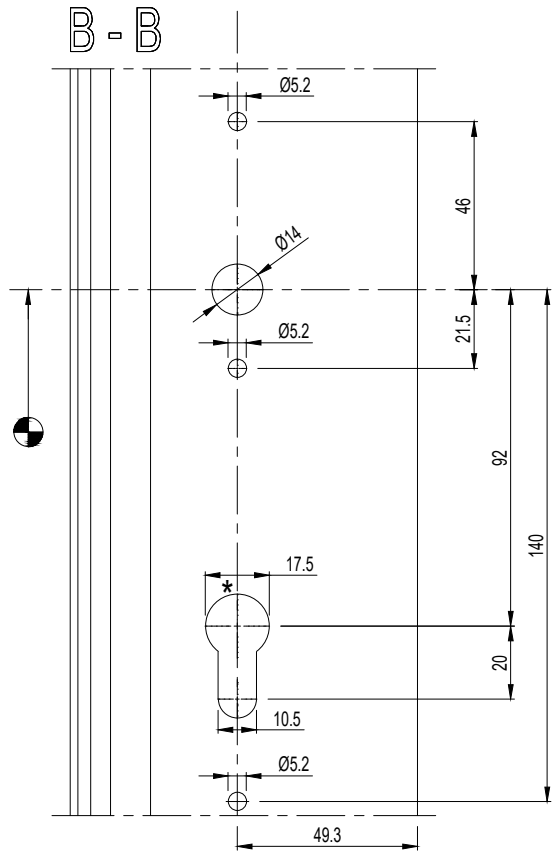
TOUCH DEURKRUKKEN - FREZING
TOUCH BEQUILLES - FRAISAGE
TOUCH DOOR HANDLES - MILLING
TOUCH TUERDRUECKERS - FRAESUNG

Reynaers Aluminium





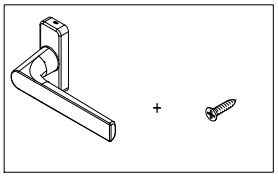


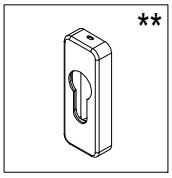


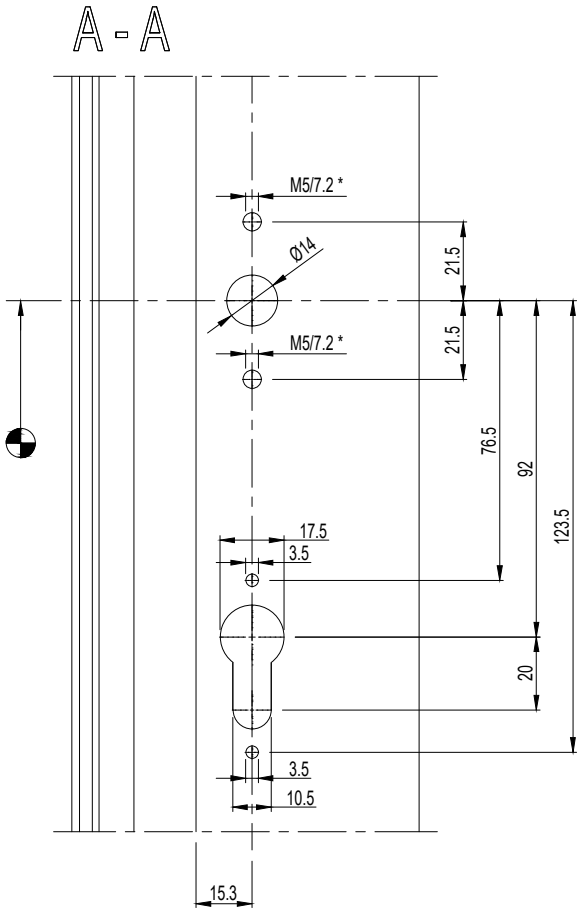
*ZONDER CILINDER
*SANS CYLINDRE
*WITHOUT CILINDER
*OHNE ZYLINDER

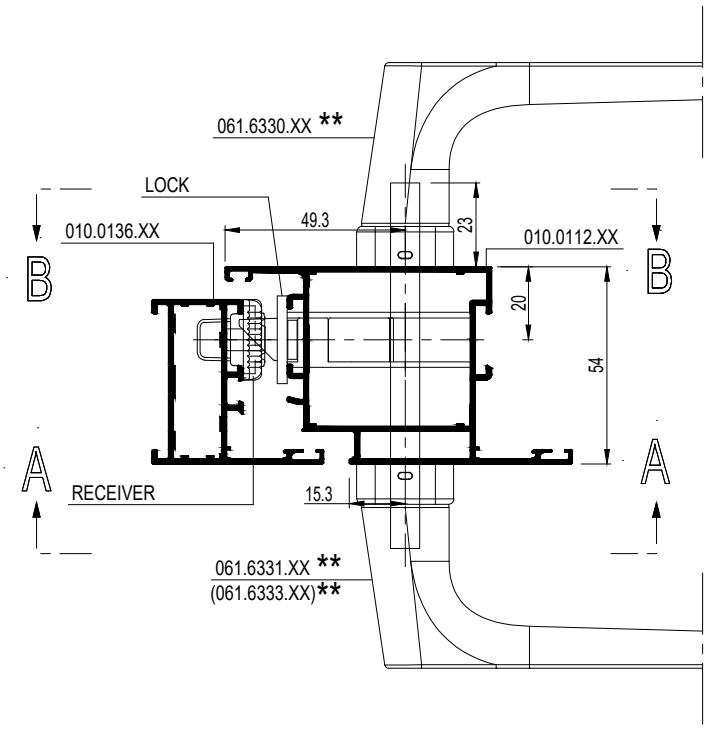
D3005215

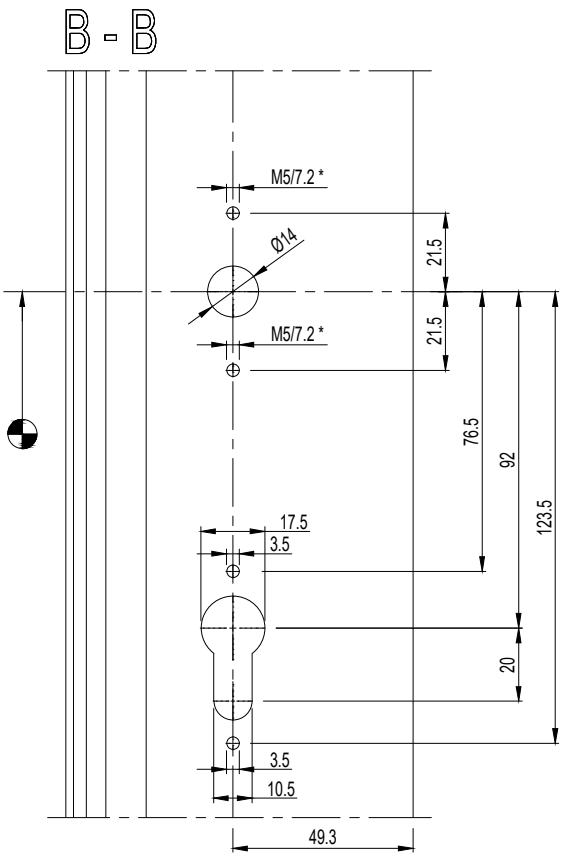
F



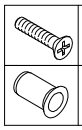








(*) optie Blindklinkmoer = Ø7.2
(*) option Ecrou Noye = Ø7.2
(*) option Blind rivet nut = Ø7.2
(*) Option Einnietmutter = Ø7.2
ref. : 057.5711.--



	050.5011.--
	057.5711.--

** OPTIONEEL
** OPTIONAL
** OPTION
** OPTIONAL

F

D3005215

ES 45Pa

HORIZON DEURKRUKKEN - BESLISSINGSMATRIX
HORIZON BEQUILLES - MATRICE DE DECISION
HORIZON DOOR HANDLES - DECISION MATRIX
HORIZON TUERDRUECKERS - ENTSCHEIDUNGSMATRIX

Reynaers Aluminium

BEVESTIGINGSSET + VIERKANTSTIFT
SET DE FIXATION + TIGE
FIXATION SET + SPINDLE
BEFESTIGUNGSSATZ + DRUCKERSTIFT

#	ES 45Pa
1	061.7093.--
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7092.--
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7092.-- SAW 5MM OFF
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7096.--
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7092.-- SAW 2MM OFF
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7096.--
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7095.-- SAW 5MM OFF
2	050.5011.-- 057.5711.--
2	052.5316.--
1	061.7095.-- SAW 5MM OFF
2	050.5011.-- 057.5711.--
2	052.5316.--

BEVESTIGINGSSET + VIERKANTSTIFT
SET DE FIXATION + TIGE
FIXATION SET + SPINDLE
BEFESTIGUNGSSATZ + DRUCKERSTIFT

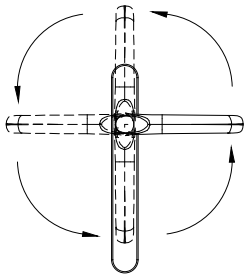
#	ES 45Pa
1	061.7093.--
3	050.5082.--
1	061.7092.--
3	050.5004.--
1	061.7092.-- SAW 5MM OFF
3	050.5082.--
1	061.7096.--
3	050.5004.--
1	061.7095.-- SAW 5MM OFF
3	050.5082.--
1	061.7095.-- SAW 5MM OFF
3	050.5004.--
1	061.7092.-- SAW 2MM OFF
3	050.5082.--
1	061.7096.--
3	050.5004.--
1	061.7095.-- SAW 5MM OFF
3	050.5011.-- 057.5711.--
1	061.7095.-- SAW 5MM OFF
3	050.5011.-- 057.5711.--

F

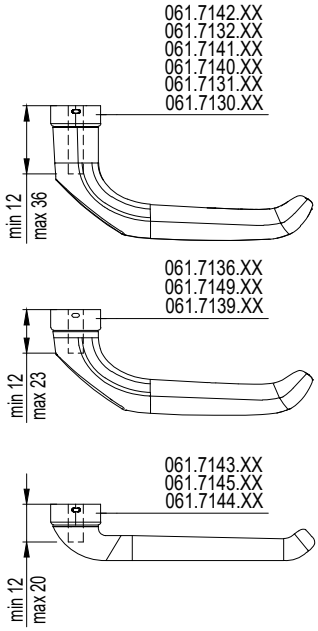
D3005196

POSITIE
POSITION
POSITION
POSITION

360°: 4x90°



STIFT DIEPTE
TIGE PROFONDEUR
SPINDLE DEPTH
POSITION TIEFE



	BINNEN INTERIEUR INDOOR INNEN		BUITEN EXTERIEUR OUTDOOR AUSSEN	
	DIN L	DIN R	DIN L	DIN R
	061.7130.XX 061.7131.XX	061.7130.XX 061.7131.XX	061.7140.XX 061.7141.XX	061.7140.XX 061.7141.XX
			061.7144.XX 061.7145.XX	061.7144.XX 061.7145.XX
			061.7139.XX 061.7149.XX	061.7139.XX 061.7149.XX

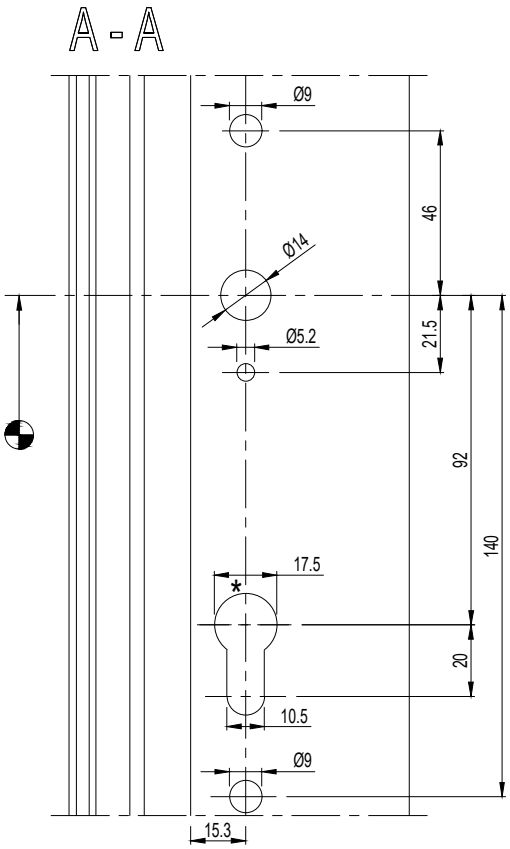
	BINNEN INTERIEUR INDOOR INNEN		BUITEN EXTERIEUR OUTDOOR AUSSEN		CYLINDERPLAAT ECUSSON CYLINDER COVER PZ-ROZETTE
	DIN L	DIN R	DIN L	DIN R	
	061.7132.XX	061.7132.XX	061.7142.XX	061.7142.XX	061.6992.XX
			061.7143.XX	061.7143.XX	
			061.7136.XX	061.7136.XX	

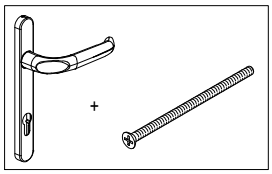
F

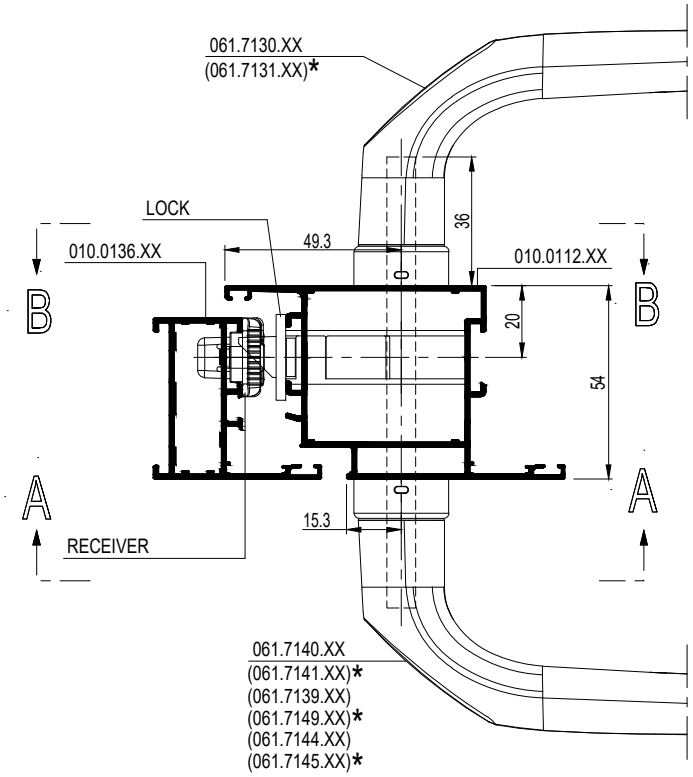
D3005196

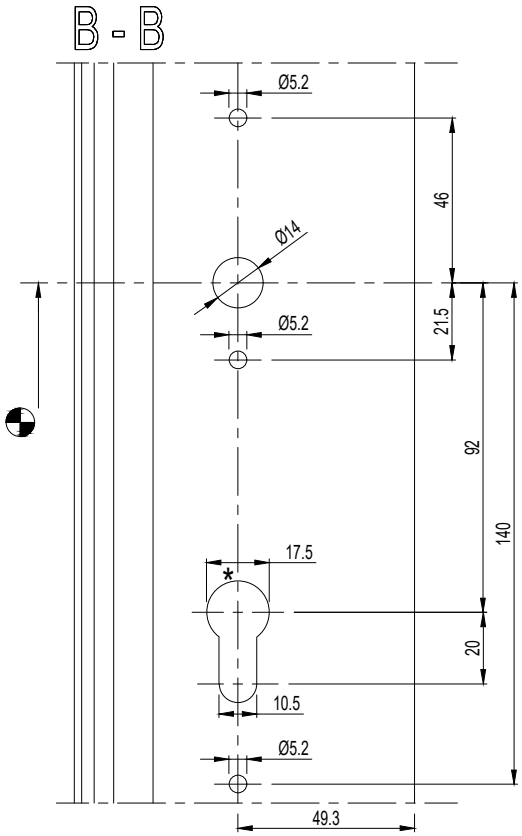
ES 45Pa

HORIZON DEURKRUKKEN - FREZING
HORIZON BEQUILLES - FRAISAGE
HORIZON DOOR HANDLES - MILLING
HORIZON TUERDRUECKERS - FRAESUNG





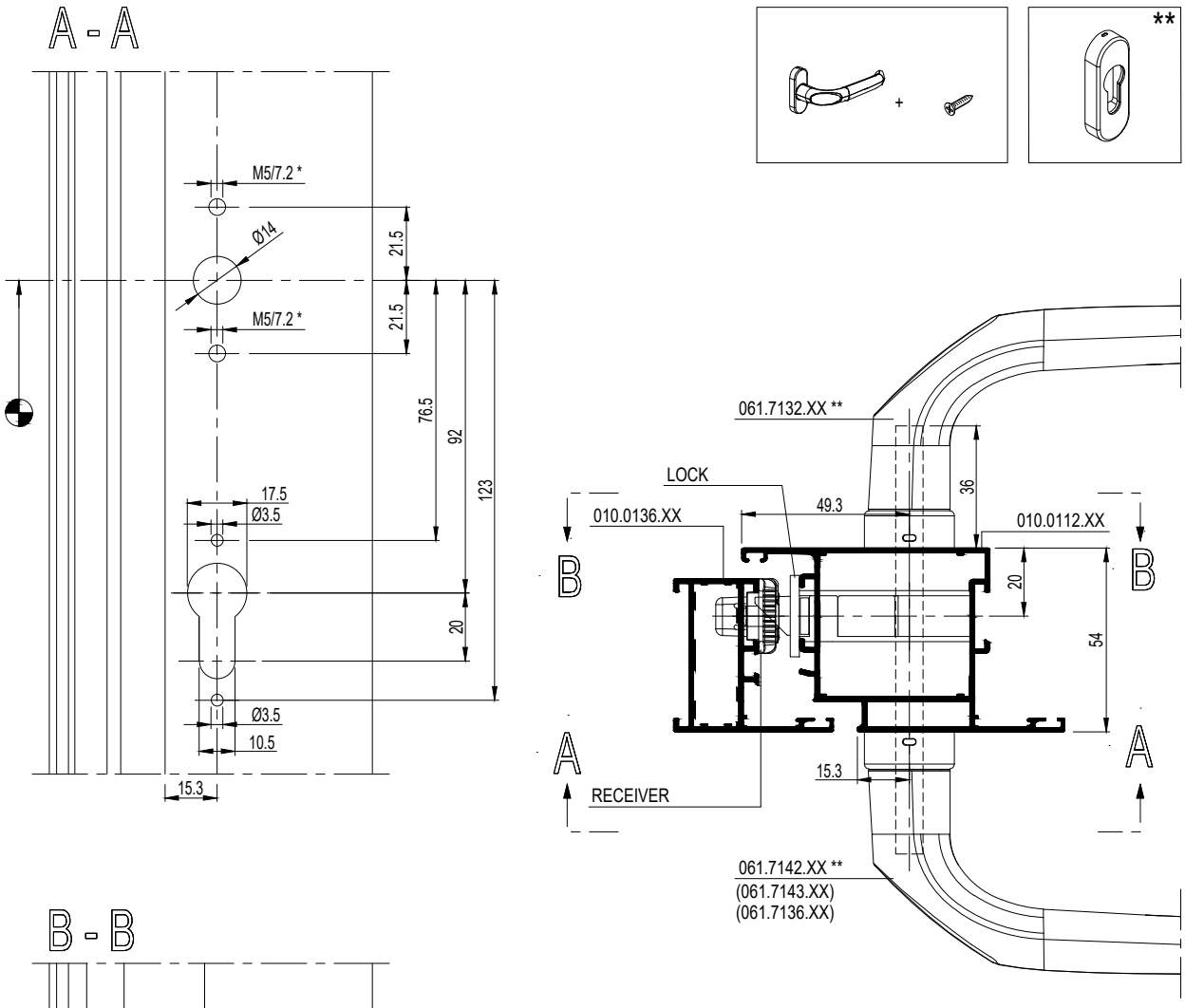


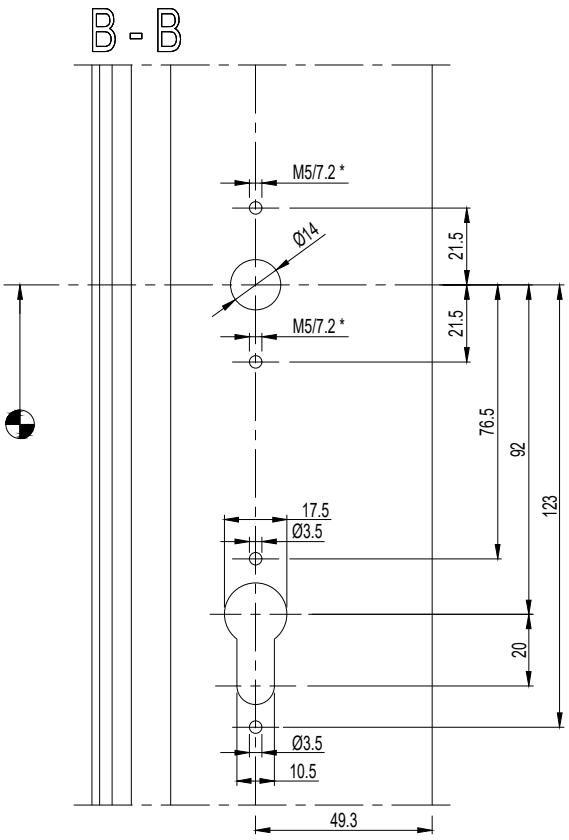


*ZONDER CILINDER
*SANS CYLINDRE
*WITHOUT CILINDER
*OHNE ZYLINDER

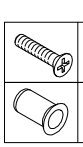
D3005198

F





(*) optie Blindklinkmoer = Ø7.2
(*) option Ecrou Noye = Ø7.2
(*) option Blind rivet nut = Ø7.2
(*) Option Einnietmutter = Ø7.2
ref. : 057.5711.--



** OPTIONEEL
** OPTIONAL
** OPTION
** OPTIONAL

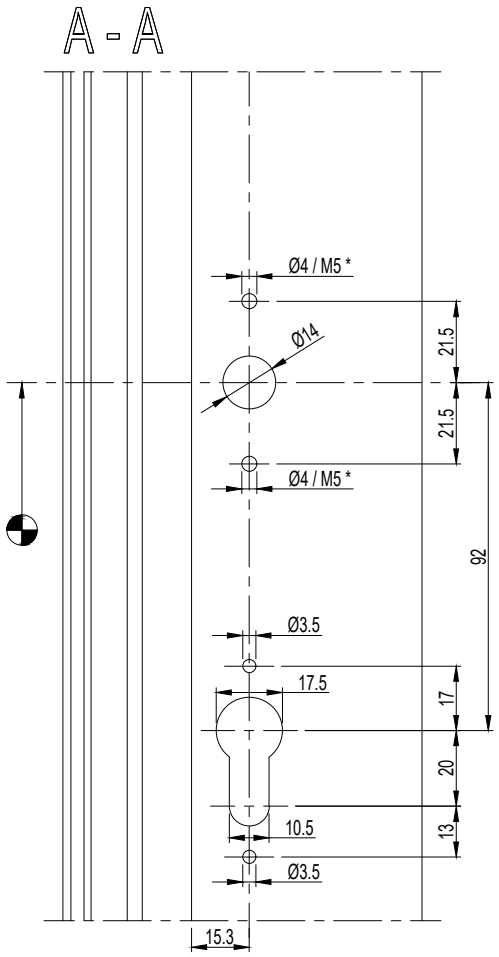
F

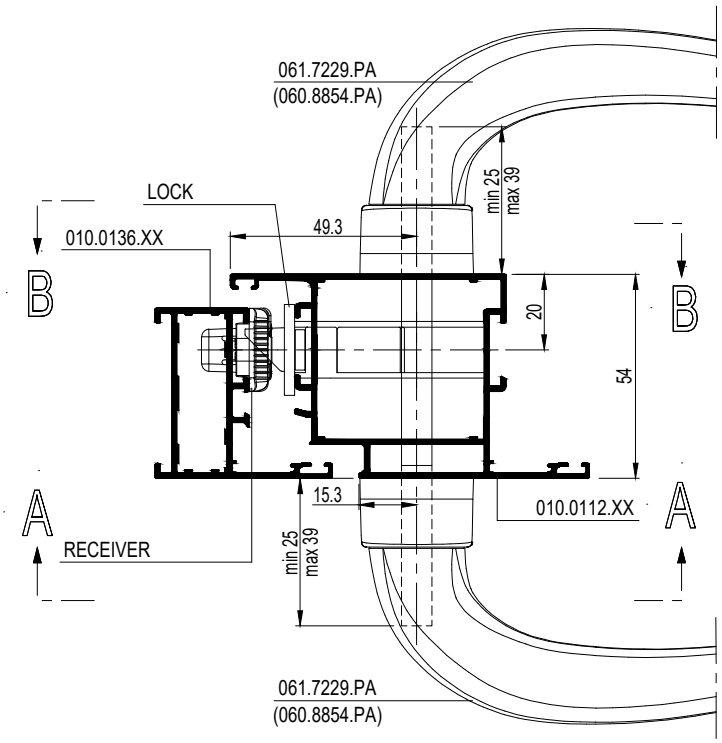
D3005198

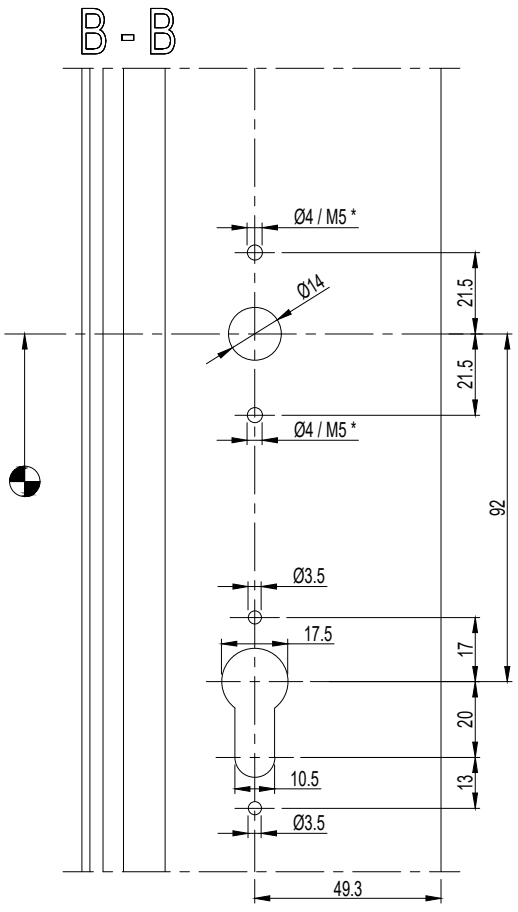
ORCHID DEURKRUKKEN - BESLISSINGSMATRIX
ORCHID BEQUILLES - MATRICE DE DECISION
ORCHID DOOR HANDLES - DECISION MATRIX
ORCHID TUERDRUECKER - ENTSCHEIDUNGSMATRIX

	VIERKANTSTIFT TIGE SPINDLE DRUCKERSTIFT		ES 45Pa	#
			061.7089.--	1
			052.5316.--	2
			061.7093.-- SAW 3MM OFF	1
			052.5316.--	2
			061.7095.-- SAW 3MM OFF	1
			052.5316.--	2
			061.7095.-- SAW 3MM OFF	1
			052.5316.--	2

	BINNEN INTERIEUR INDOOR INNEN		BUITEN EXTERIEUR OUTDOOR AUSSEN		CYLINDERPLAAT ECUSSON CYLINDER COVER PZ-ROZETTE
	DIN L	DIN R	DIN L	DIN R	
	061.7229.PA	061.7229.PA	061.7229.PA	061.7229.PA	061.6976.PA 060.8827.PA
	060.8854.PA	060.8854.PA	060.8854.PA	060.8854.PA	







(*) andere methode: metrische schroef
(*) autre procédé: vis métrique
(*) other method: metric screw
(*) Andere methode: metrische Schraube
050.5162.--

F

D3005241

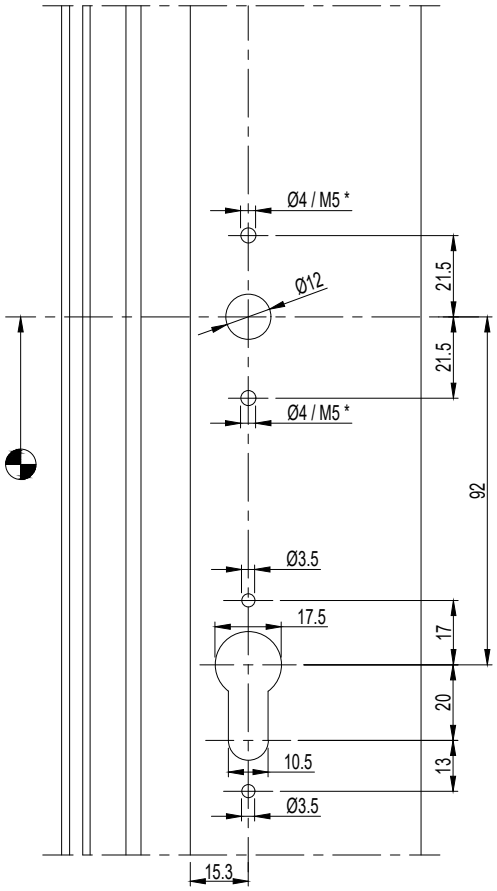
ES 45Pa

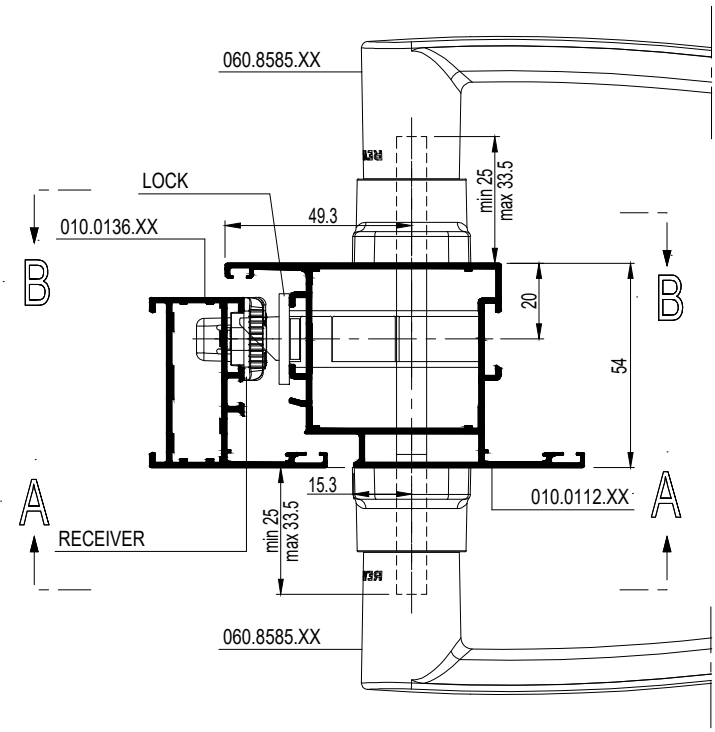
OLIMPO HERA DEURKRUKKEN - BESLISSINGSMATRIX
OLIMPO HERA BEQUILLES - MATRICE DE DECISION
OLIMPO HERA DOOR HANDLES - DECISION MATRIX
OLIMPO HERA TUERDRUECKER - ENTSCHEIDUNGSMATRIX

	VIERKANTSTIFT TIGE SPINDLE DRUCKERSTIFT		ES 45Pa	#
			061.7093.-- SAW 5MM OFF	1
			052.5316.--	2
			061.7092.-- SAW 3MM OFF	1
			052.5316.--	2
			061.7095.-- SAW 8MM OFF	1
			052.5316.--	2
			061.7095.-- SAW 8MM OFF	1
			052.5316.--	2

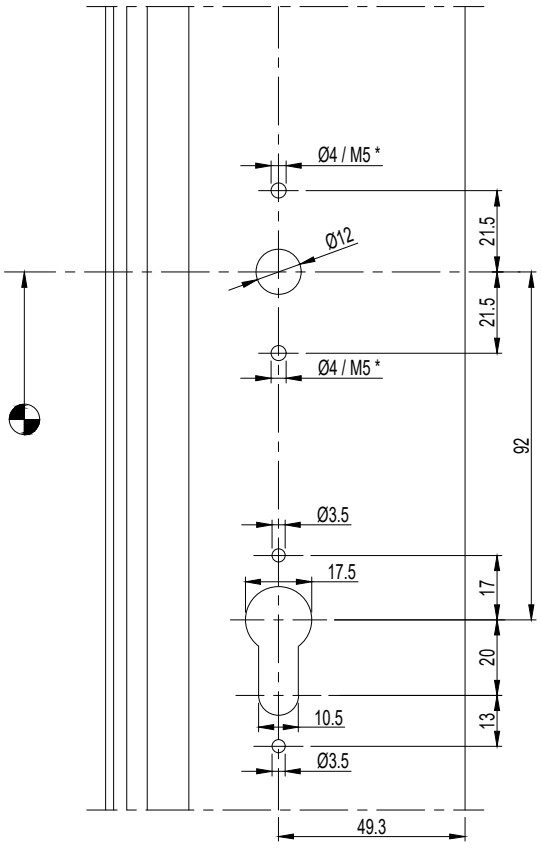
	BINNEN INTERIEUR INDOOR INNEN		BUITEN EXTERIEUR OUTDOOR AUSSEN		CYLINDERPLAAT ECUSSON CYLINDER COVER PZ-ROZETTE
	DIN L	DIN R	DIN L	DIN R	
	060.8585.XX	060.8585.XX	060.8585.XX	060.8585.XX	060.8827.PA

A - A





B - B



(*) andere methode: metrische schroef
(*) autre procédé: vis métrique
(*) other method: metric screw
(*) Andere methode: metrische Schraube
050.5162.--

F

D3005197

CILINDERS WORDEN GELEVERD MET DRIE SLEUTELS EN SCHROEF.
LES CYLINDRES SONT LIVRES AVEC TROIS CLES ET VIS.
CYLINDERS ARE DELIVERED WITH THREE KEYS AND SCREWS.
ZYLINDER SIND MIT DREI SCHLUSSEL UND SCHRAUBE GELIEFERT.

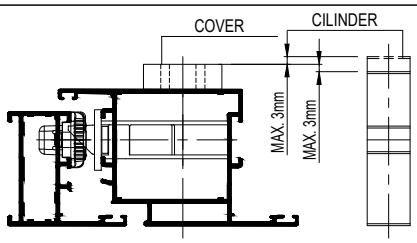
CILINDERS SMEREN MET WD 40 (SLEUTEL INSMEREN) ELKE 6 MAAND.
GRAISSER LES CYLINDRES AVEC WD 40 (GRAISSER CLE) CHAQUE 6 MOIS.
GREASE CYLINDERS WITH WD 40 (GREASE KEY) EVERY 6 MONTHS.
ZYLINDER SCHMIEREN MIT WD 40 (SCHLUSSEL SCHMIEREN) JEDE 6 MONATE.

SLEUTELPLAN OP AANVRAAG.
PLAN DE CLE SUR DEMANDE.
KEY PLAN ON REQUEST.
SCHLUSSELPLAN AUF ANFRAGE.

GELIJKSLUITEND ("KEYED ALIKE") = 1 SLEUTEL VOOR MEERDERE CILINDERS.
ENTROUVRANT ("KEYED ALIKE") = 1 CLE POUR PLUSIEURS CYLINDRES.
KEYED ALIKE = 1 KEY FOR MULTIPLE CYLINDERS.
GLEICHSCHLIESSEND ("KEYED ALIKE") = 1 SCHLUSSEL FUR MEHRERE ZYLINDER.

PZ	KABA
IN RANGE	NOT IN RANGE

STANDAARD DEURKRUK
BEQUILLE STANDARD
STANDARD DOOR HANDLE
STANDARD TUERDRUECKER

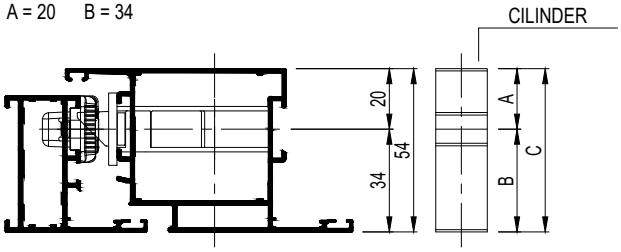


SYSTEEM / SYSTEME / SYSTEM / SYSTEM		X	Z	W
ES 45 Pa		20	34	54
		20	25	45

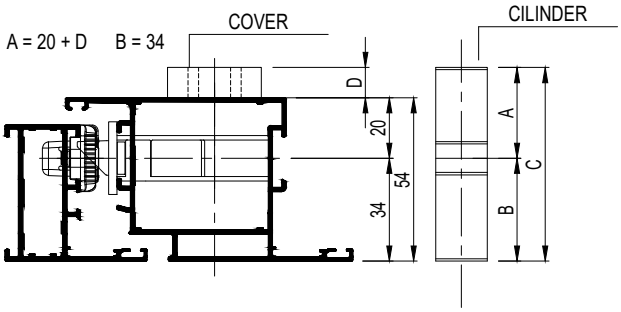
F

D3005262

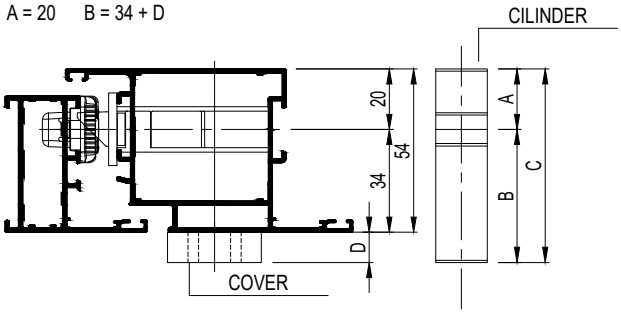
OPTION 1: A = 20 B = 34



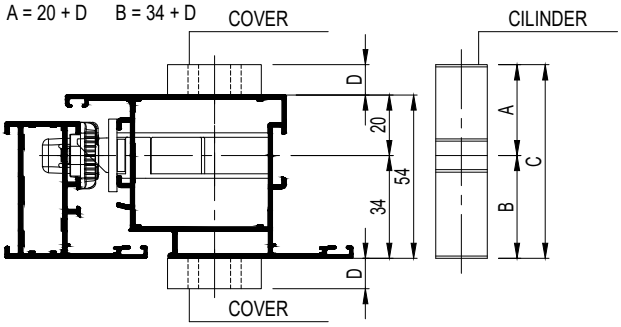
OPTION 2: A = 20 + D B = 34



OPTION 3: A = 20 B = 34 + D



OPTION 4: A = 20 + D B = 34 + D

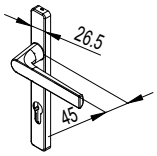
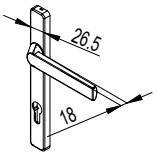
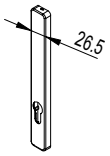
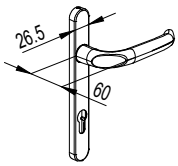
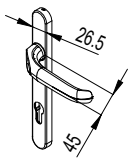
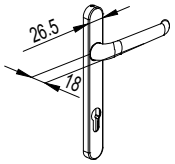


F

D3005262

BESLISSINGSMATRIX ARTIKELS
MATRICE DE DECISION ARTICLES
DECISION MATRIX ARTICLES
ENTSCHEIDUNGSMATRIX ARTIKEL

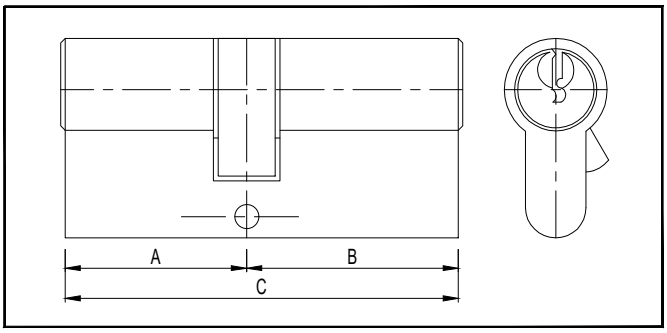
D3005274

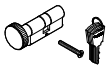
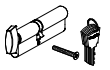
	HANDLE TYPE	HANDLE REF	D (THICKNESS)
TOUCH		061.6335.XX	11
		061.6336.XX	11
		061.6340.XX	11
		061.6344.XX	11
		061.6334.XX	11
HORIZON		061.7130.XX	11
		061.7140.XX	11
		061.7139.XX	11
		061.7144.XX	11
		061.6992.XX	11
ORCHID		061.6976.PA	10
		060.8827.PA	10

CONTROLEER DE MAX. CILINDERDIEPTE
VERIFIER LA PROFONDEUR MAX. DE CYLINDRE
CHECK THE MAX. CYLINDER DEPTH
PRUFEN SIE DAS MAX. ZYLINDER TIEFE (*)

F

D3005274



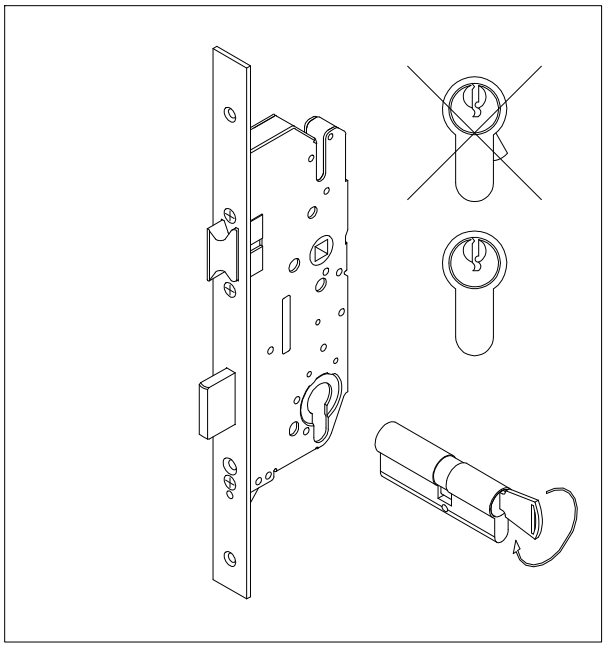
	CILINDER REF	A	B	C (TOTAL)	INFO
	061.7046.--	30	30	60	
	061.9870.--	35	10	45	HALF CYLINDER
	061.9881.--	35	45	80	
	161.7020.PA	30	10	40	HALF CYLINDER
	161.7027.PA	35	10	45	HALF CYLINDER
	161.7033.PA	40	10	50	HALF CYLINDER
	061.7055.--	30	10	40	HALF CYLINDER
	061.7042.--	30	30	60	
	061.7035.--	30	35	65	
	061.7044.--	30	40	70	
	061.7039.--	30	45	75	
	061.7056.--	35	10	45	HALF CYLINDER
	061.7043.--	35	35	70	
	061.7047.--	35	45	80	
	061.7058.--	45	10	55	HALF CYLINDER
	062.7197.--	35	10	45	HALF CYLINDER + KEYED ALIKE

BINNENKRUK POIGNEE-INTERIEURE INSIDE-HANDLE INNENGRIFF	
BUITENKRUK POIGNEE-EXTERIEURE OUTSIDE-HANDLE AUSSENGRIF	

D3005276

MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

1



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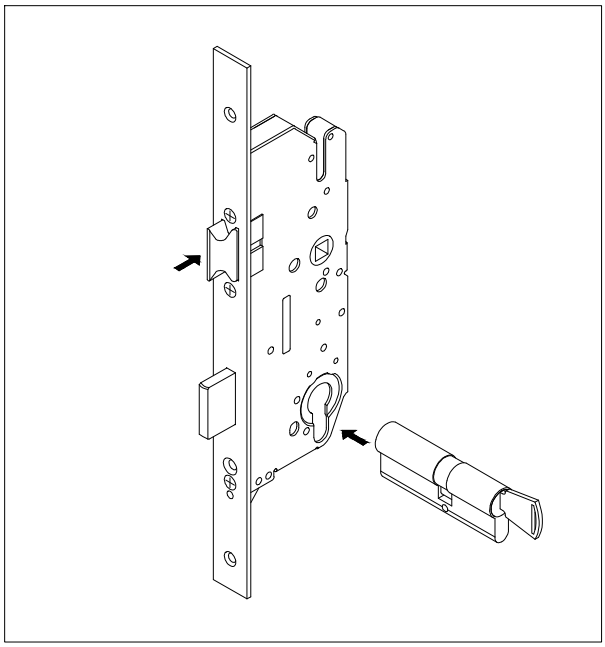

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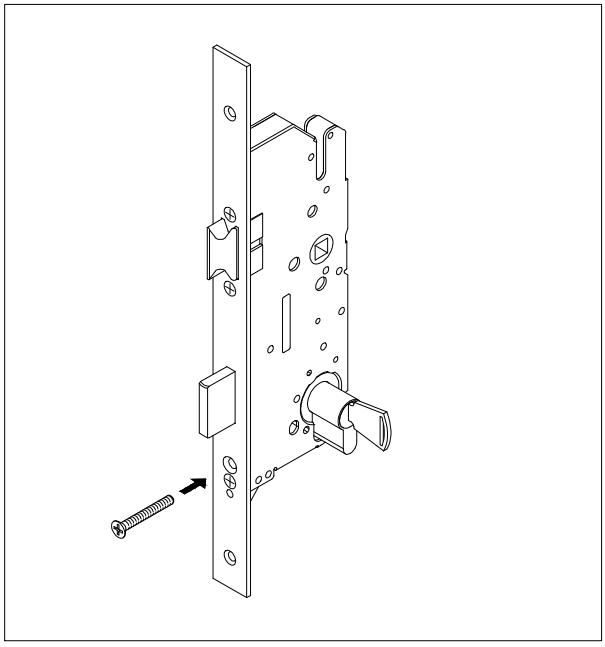

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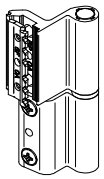
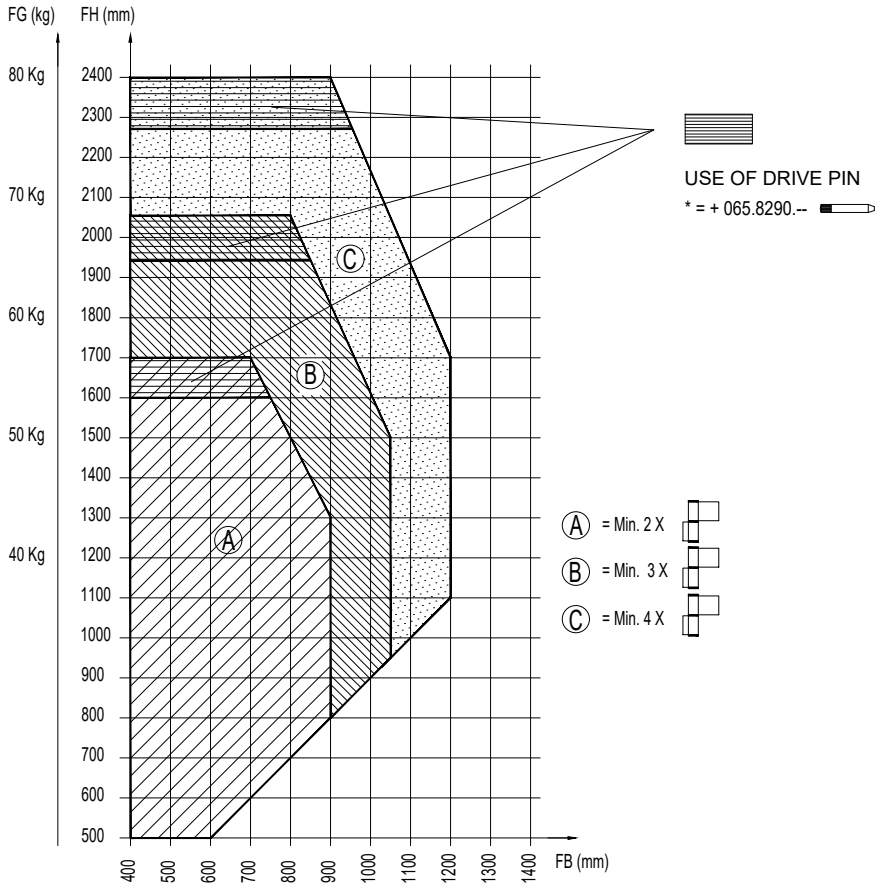
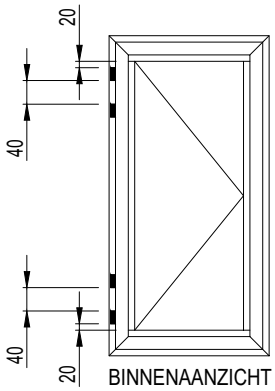




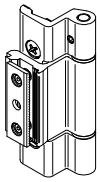


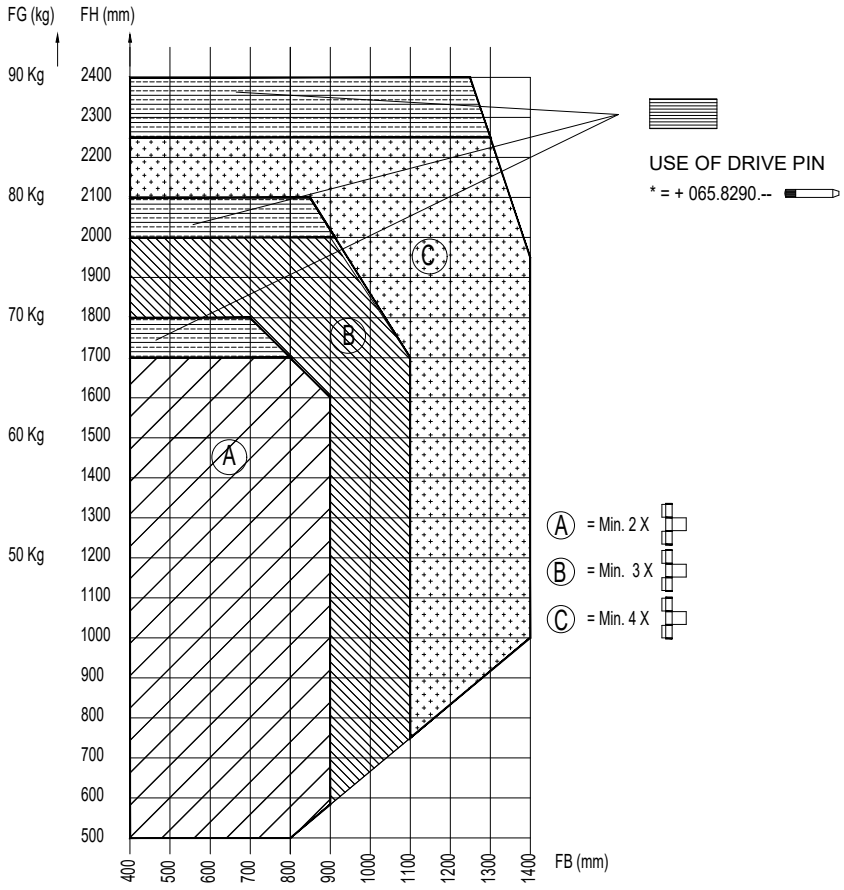
BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENANSICHT

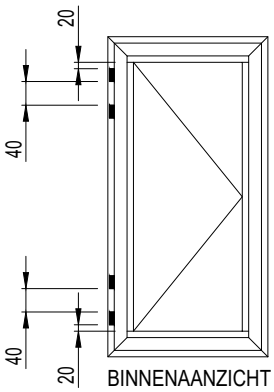
F

D3005281

065.8475.XX







BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENANSICHT

F

D3005281

PRIVATE PLAATSEN
LIEUX PRIVATS
PRIVATE APPLICATION
PRIVATANWENDUNG

BESLISSINGSMATRIX MAX. TOELAATBARE AFMETINGEN: 065.6511.XX
MATRICE DE DECISION DIMENSIONS MAX. ADMISSIBLE: 065.6511.XX
DECISION MATRIX MAX. ADMISSIBLE SIZES: 065.6511.XX
ENTSCHEIDUNGSMATRIX MAX. ZULAESSIGE ABMESSUNGEN: 065.6511.XX

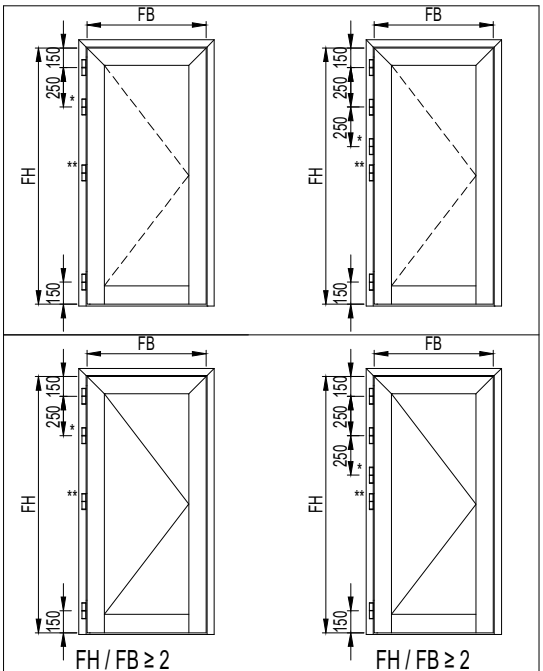
	SYSTEEM SYSTEME SYSTEM SYSTEM		FG Max. (kg)	FH ≤ 2200	FH ≥ 2200	
	ES 45Pa		80	2	3	A
			92	3	4	B
			70	3	4	C
			80	4	5	D
		+ (!)	60	3	4	E
		+ (!)	69	4	5	F

PRIVATE PLAATSEN
LIEUX PRIVATS
PRIVATE APPLICATION
PRIVATANWENDUNG

PUBLIEKE PLAATSEN
LIEUX PUBLICS
PUBLIC APPLICATION
OFFENLICHE ANWENDUNG

BESLISSINGSMATRIX MAX. TOELAATBARE AFMETINGEN: 065.6511.XX
MATRICE DE DECISION DIMENSIONS MAX. ADMISSIBLE: 065.6511.XX
DECISION MATRIX MAX. ADMISSIBLE SIZES: 065.6511.XX
ENTSCHEIDUNGSMATRIX MAX. ZULAESSIGE ABMESSUNGEN: 065.6511.XX

	SYSTEEM SYSTEME SYSTEM SYSTEM		FG Max. (kg)	FH ≤ 2200	FH ≥ 2200	
	ES 45Pa		70	2	3	G
			80	3	4	H
			60	3	4	I
			69	4	5	J
		+ (!)	55	3	4	K
		+ (!)	63	4	5	L



*	DOOR CLOSER -> ADD HINGE
**	FH>2200 -> ADD CENTER HINGE

$\frac{FH}{FB} \geq 2$ ➡ $\frac{FH}{FB} = 1.9$ → Fg max - 10%
$\frac{FH}{FB} = 1.8$ → Fg max - 20%
= ...

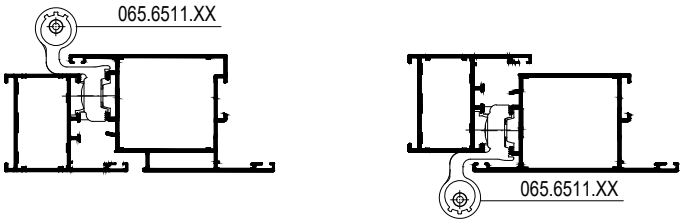
Private plaatsen - Lieux privats - Private application - Privatanwendung	max. 80 kg	Ⓐ	max. 80 kg + 15%	Ⓑ
Private plaatsen met deursluiter - Lieux privates avec fermeture de porte - Private application with door closer - privatanwendung mit Türschliesser	max. 70 kg	Ⓒ	max. 70 kg + 15%	Ⓓ
Private plaatsen met deursluiter + rem- Lieux privates avec fermeture de porte + frein - Private application with door closer + break- privatanwendung mit Türschliesser + Bremse	max. 60 kg	Ⓔ	max. 60 kg + 15%	Ⓕ
Publieke plaatsen - Lieux publics - Public application - Öffentliche Anwendung	max. 70 kg	Ⓖ	max. 70 kg + 15%	Ⓗ
Publieke plaatsen met deursluiter - Lieux publics avec fermeture de porte - Public application with door closer - Öffentliche Anwendung mit Türschliesser	max. 60 kg	Ⓘ	max. 60 kg + 15%	Ⓙ
Private plaatsen met deursluiter + rem- Lieux privates avec fermeture de porte + frein - Private application with door closer + break- privatanwendung mit Türschliesser + Bremse	max. 55 kg	Ⓚ	max. 55 kg + 15%	Ⓛ

BIJKOMENDE INFO -> RAADPLEEG "MAX. TOELAATBARE AFMETINGEN" !
INFO COMPLEMENTAIRE -> CONSULTEZ "DIMENSIONS MAX. ADMISSIBLE" !
ADDITIONAL INFO -> CONSULT "MAX.ADMISSIBLE SIZES" !
ZUSAETZLICHE INFO -> SIEHE "MAX. ZULAESSIGE ABMESSUNGEN" !

FAPIM - BESLISSINGSMATRIX ARTIKELS
FAPIM - MATRICE DE DECISION ARTICLES
FAPIM - DECISION MATRIX ARTICLES
FAPIM - ENTSCHEIDUNGSMATRIX ARTIKEL

Reynaers Aluminium

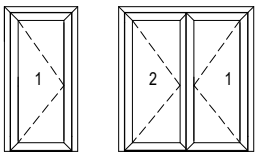
D3005287



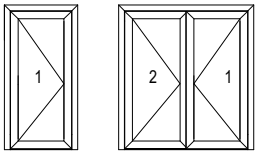
FAPIM					
SYSTEEM SYSTEME SYSTEM SYSTEM		RAAMDEUR PORTE FENETRE WINDOW DOOR FENSTER TUER	DEURSCHARNIER 2-DELIG CHARNIERE PORTE 2-PARTIES DOOR HINGE 2-PART TUERBAND 2-TEILIG	DEURSCHARNIER 3-DELIG CHARNIERE PORTE 2-PARTIES DOOR HINGE 3-PART TUERBAND 3-TEILIG	PSYCHOLOGISCHE VERGRENDELING BLOCAGE PSYCHOLOGIQUE PSYCHOLOGICAL SAFETY LOCK PSYCHOLOGISCHE BLOCKIERUNG
ES 45Pa		010.0136.XX 010.0112.XX	065.6511.XX	--	061.8725.00 (2x/hinge)
		010.0183.XX 010.0112.XX	065.6511.XX	--	061.8725.00 (2x/hinge)
		010.0136.XX 010.0492.XX	065.6511.XX	--	061.8725.00 (2x/hinge)
		010.0183.XX 010.0492.XX	065.6511.XX	--	061.8725.00 (2x/hinge)

ES 45Pa

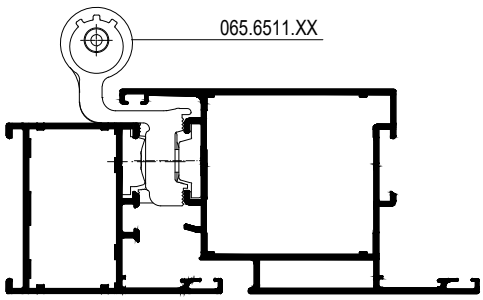
FAPIM - MONTAGE SCHARNIEREN
FAPIM - ASSEMBLAGE CHARNIERES
FAPIM - ASSEMBLY HINGES
FAPIM - MONTAGE BAENDER

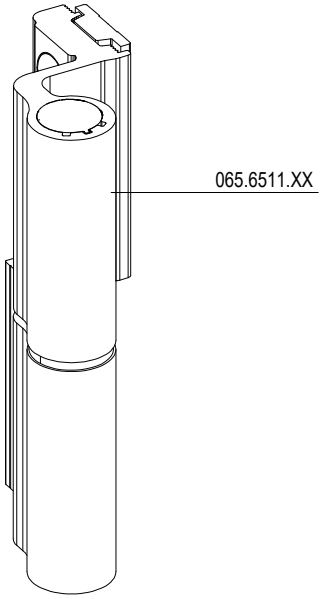


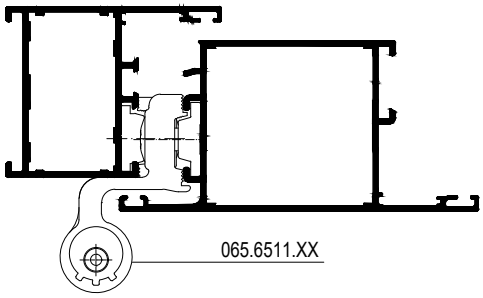
ES 45Pa



ES 45Pa







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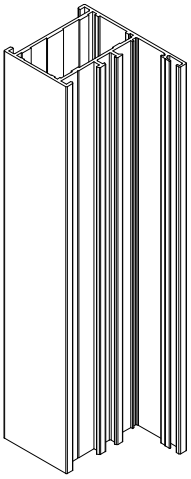

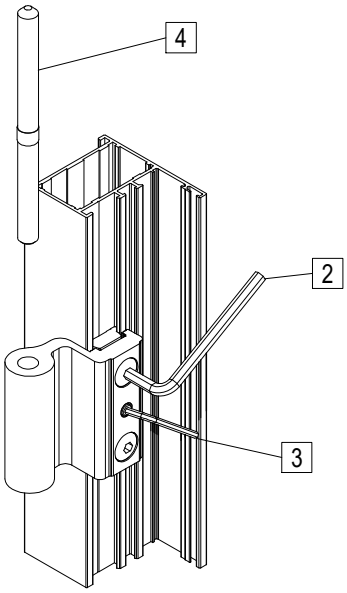

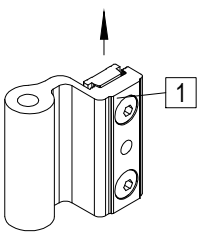

D3005288

F

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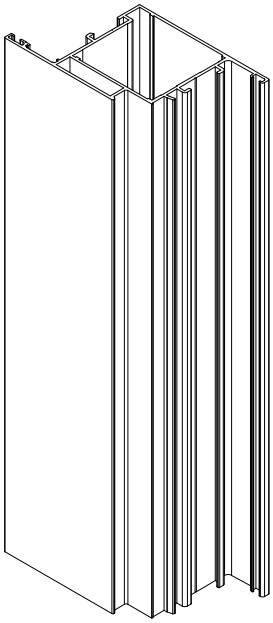

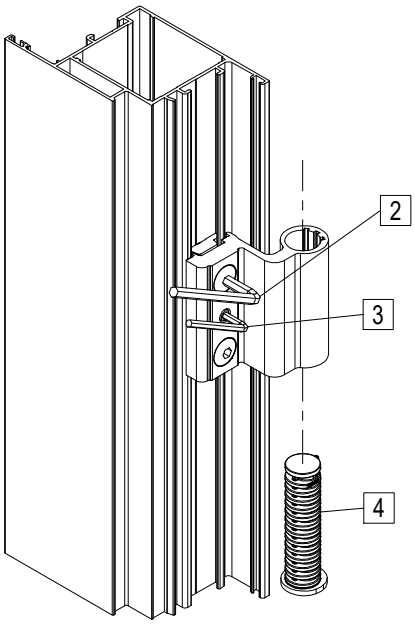

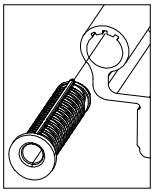

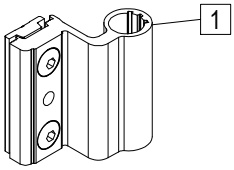

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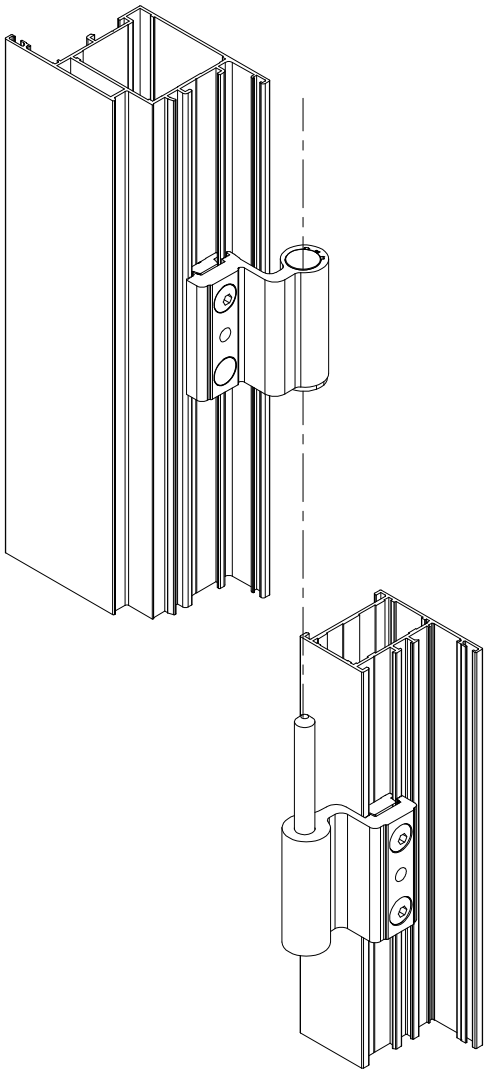


SMERING: 25000/CYCLUS OF 1/JAAR - KLÜBER POLYLUB WH2
LUBRIFIEZ: 25000/CYCLE OU 1/AN - KLÜBER POLYLUB WH2
LUBRICATE: 25000/CYCLE OR 1/YEAR - KLÜBER POLYLUB WH2
SCHMIEREN: 25000/ZYKLUS ODER 1/JAHR - KLÜBER POLYLUB WH2

MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

F

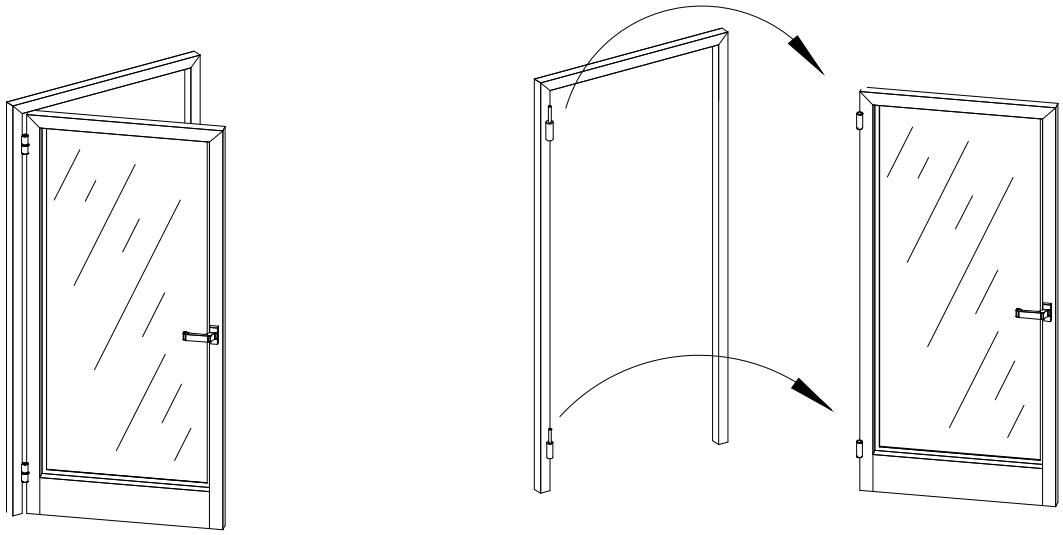
D3005288

FAPIM - REGELEN SCHARNIEREN
FAPIM - AJUSTÉE CHARNIERES
FAPIM - ADJUST HINGES
FAPIM - EINSTELLEN BAENDER

D3005298

HORIZONTAAL REGELING
REGLAGE HORIZONTAL
HORIZONTAL ADJUSTMENT
HORIZONTAL VERSTELLUNG

1



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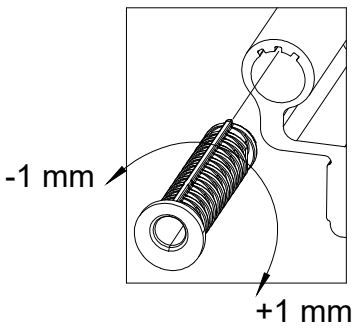
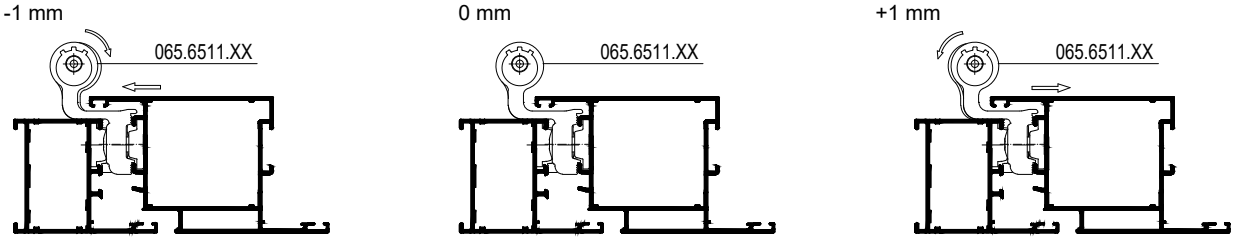
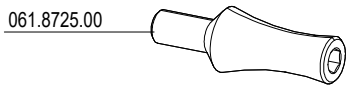


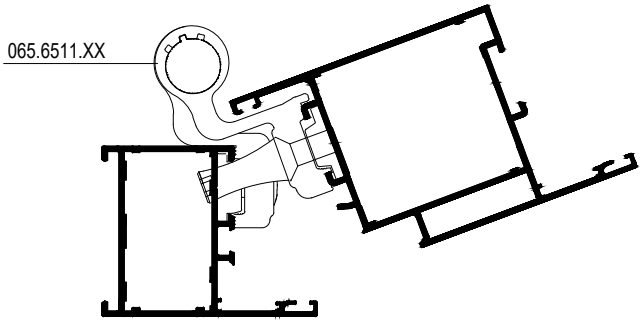


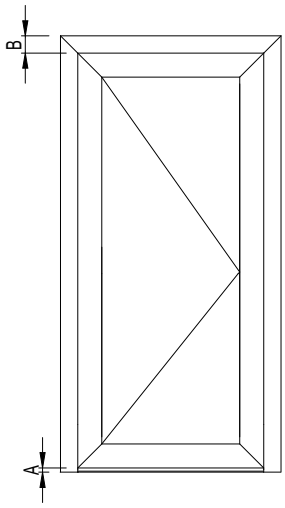
F

D3005298

	GEEN INBRAAKWERENDE KLASSE (EN, NEN) AUCUNE CLASSE DE PROTECTION ANTI-VOL (EN, NEN) NO BURGLAR-PROTECTION CLASS (EN, NEN) KEINE EINBRUCHHEMMENDE KLASSE (EN, NEN)
	PSYCHOLOGISCHE VERGRENDELING BLOCAGE PSYCHOLOGIQUE PSYCHOLOGICAL SAFETY LOCK PSYCHOLOGISCHE BLOCKIERUNG
	061.8725.00(min. 2x/hinge)

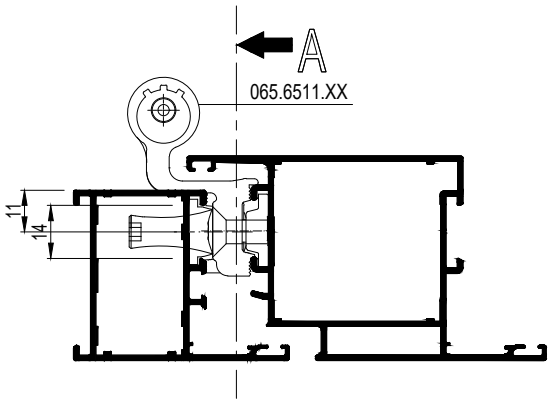


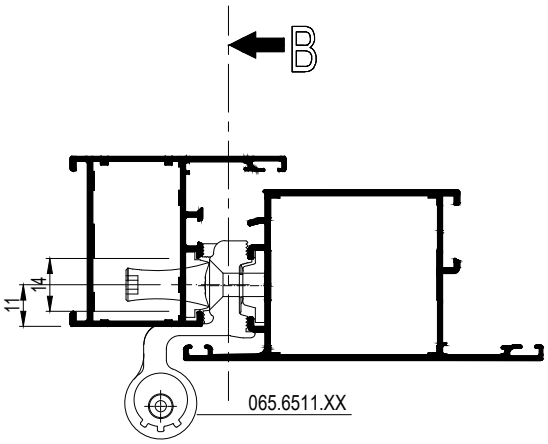


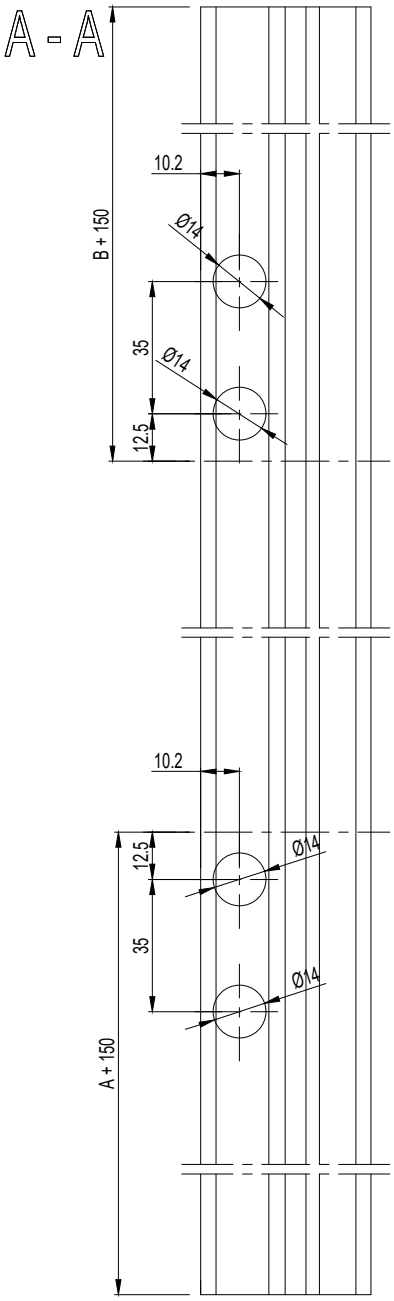


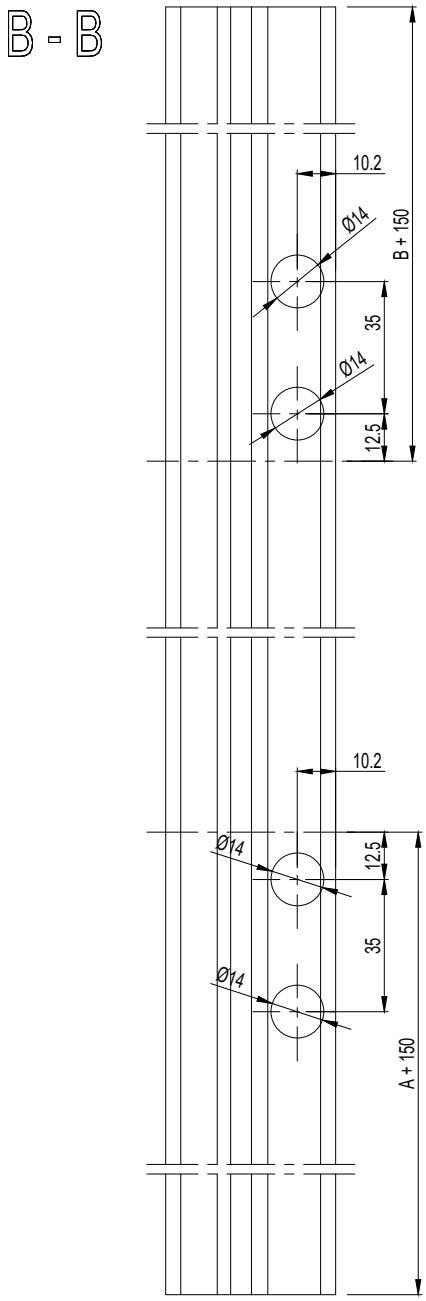
D3005299

F


A
065.6511.XX
11
14


B
14
11
065.6511.XX


A - A
10.2
Ø14
B + 150
35
Ø14
12.5
10.2
12.5
Ø14
35
Ø14
A + 150

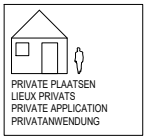

B - B
10.2
Ø14
B + 150
35
Ø14
12.5
10.2
Ø14
12.5
35
Ø14
A + 150

F

D30052299

ES 45Pa

FAPIM - BESLISSINGSMATRIX MAX. AFMETINGEN
FAPIM - MATRICE DE DECISION DIMENSIONS MAX.
FAPIM - DECISION MATRIX MAX. SIZES
FAPIM - ENTSCHEIDUNGSMATRIX MAX. ABMESSUNGEN



PRIVATE PLAATSEN
LIEUX PRIVATS
PRIVATE APPLICATION
PRIVATANWENDUNG

BESLISSINGSMATRIX MAX. TOELAATBARE AFMETINGEN: 065.6524.XX
MATRICE DE DECISION DIMENSIONS MAX. ADMISSIBLE: 065.6524.XX
DECISION MATRIX MAX. ADMISSIBLE SIZES: 065.6524.XX
ENTSCHEIDUNGSMATRIX MAX. ZULAESSIGE ABMESSUNGEN: 065.6524.XX

	SYSTEEM SYSTEME SYSTEM SYSTEM		FG Max. (kg)	FH ≤ 2200	FH ≥ 2200	
	ES 45Pa		100	2	3	A
			120	3	4	B
			100	-	-	-
			120	3	4	B

PRIVATE PLAATSEN
LIEUX PRIVATS
PRIVATE APPLICATION
PRIVATANWENDUNG

PUBLIEKE PLAATSEN
LIEUX PUBLICS
PUBLIC APPLICATION
OFFENLICHE ANWENDUNG

BESLISSINGSMATRIX MAX. TOELAATBARE AFMETINGEN: 065.6524.XX
MATRICE DE DECISION DIMENSIONS MAX. ADMISSIBLE: 065.6524.XX
DECISION MATRIX MAX. ADMISSIBLE SIZES: 065.6524.XX
ENTSCHEIDUNGSMATRIX MAX. ZULAESSIGE ABMESSUNGEN: 065.6524.XX

	SYSTEEM SYSTEME SYSTEM SYSTEM		FG Max. (kg)	FH ≤ 2200	FH ≥ 2200	
	ES 45Pa		100	-	-	-
			120	3	4	B
			100	-	-	-
			120	3	4	B

F

** FH>2200 -> ADD CENTER HINGE

BIJKOMENDE INFO -> RAADPLEEG "MAX. TOELAATBARE AFMETINGEN" !
INFO COMPLEMENTAIRE -> CONSULTEZ "DIMENSIONS MAX. ADMISSIBLE" !
ADDITIONAL INFO -> CONSULT "MAX.ADMISSIBLE SIZES" !
ZUSAETZLICHE INFO -> SIEHE "MAX. ZULAESSIGE ABMESSUNGEN" !

D3005303

ES 45Pa

FAPIM - BESLISSINGSMATRIX MAX. AFMETINGEN
FAPIM - MATRICE DE DECISION DIMENSIONS MAX.
FAPIM - DECISION MATRIX MAX. SIZES
FAPIM - ENTSCHEIDUNGSMATRIX MAX. ABMESSUNGEN

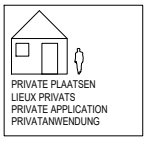
Reynaers Aluminium

F

D3005303

ES 45Pa

FAPIM - BESLISSINGSMATRIX MAX. AFMETINGEN
FAPIM - MATRICE DE DECISION DIMENSIONS MAX.
FAPIM - DECISION MATRIX MAX. SIZES
FAPIM - ENTSCHEIDUNGSMATRIX MAX. ABMESSUNGEN



PRIVATE PLAATSEN
LIEUX PRIVATS
PRIVATE APPLICATION
PRIVATANWENDUNG

BESLISSINGSMATRIX MAX. TOELAATBARE AFMETINGEN: 065.6547.XX
MATRICE DE DECISION DIMENSIONS MAX. ADMISSIBLE: 065.6547.XX
DECISION MATRIX MAX. ADMISSIBLE SIZES: 065.6547.XX
ENTSCHEIDUNGSMATRIX MAX. ZULAESSIGE ABMESSUNGEN: 065.6547.XX

SYSTEEM SYSTEME SYSTEM SYSTEM		FG Max. (kg)	FH ≤ 2200	FH ≥ 2200	
ES 45Pa		120	2	3	C
		140	3	4	D
		120	-	-	-
		120	3	4	D

PRIVATE PLAATSEN
LIEUX PRIVATS
PRIVATE APPLICATION
PRIVATANWENDUNG

PUBLIEKE PLAATSEN
LIEUX PUBLICS
PUBLIC APPLICATION
OFFENLICHE ANWENDUNG

BESLISSINGSMATRIX MAX. TOELAATBARE AFMETINGEN: 065.6547.XX
MATRICE DE DECISION DIMENSIONS MAX. ADMISSIBLE: 065.6547.XX
DECISION MATRIX MAX. ADMISSIBLE SIZES: 065.6547.XX
ENTSCHEIDUNGSMATRIX MAX. ZULAESSIGE ABMESSUNGEN: 065.6547.XX

SYSTEEM SYSTEME SYSTEM SYSTEM		FG Max. (kg)	FH ≤ 2200	FH ≥ 2200	
ES 45Pa		120	-	-	-
		140	3	4	D
		120	-	-	-
		140	3	4	D

** FH>2200 -> ADD CENTER HINGE

BIJKOMENDE INFO -> RAADPLEEG "MAX. TOELAATBARE AFMETINGEN" !
INFO COMPLEMENTAIRE -> CONSULTEZ "DIMENSIONS MAX. ADMISSIBLE" !
ADDITIONAL INFO -> CONSULT "MAX.ADMISSIBLE SIZES" !
ZUSAETZLICHE INFO -> SIEHE "MAX. ZULAESSIGE ABMESSUNGEN" !

F

FAPIM - BESLISSINGSMATRIX MAX. AFMETINGEN
FAPIM - MATRICE DE DECISION DIMENSIONS MAX.
FAPIM - DECISION MATRIX MAX. SIZES
FAPIM - ENTSCHEIDUNGSMATRIX MAX. ABMESSUNGEN

C

FG Max. (kg)	FB (mm)														
FH / FB	500-700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
1800	120	120	115	110	105	100	95	90	85	80	75	75	70	70	65
1900	120	120	120	120	110	105	100	95	90	85	85	80	75	75	70
2000	120	120	120	120	120	115	105	100	95	95	90	85	80	80	75
2100	120	120	120	120	120	120	115	110	105	100	95	90	85	85	80
2200	120	120	120	120	120	120	120	115	110	105	100	95	95	90	85
2300	120	120	120	120	120	120	120	120	115	110	105	100	100	95	90
2400	120	120	120	120	120	120	120	120	120	115	110	110	105	100	95
2500	120	120	120	120	120	120	120	120	120	120	120	115	110	105	100
2600	120	120	120	120	120	120	120	120	120	120	120	120	115	110	105
2700	120	120	120	120	120	120	120	120	120	120	120	120	120	115	110
2800	120	120	120	120	120	120	120	120	120	120	120	120	120	120	115
2900	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
3000	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120

FH (mm)

D

FG Max. (kg)	FB (mm)														
FH / FB	500-700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
1800	140	140	140	130	120	115	110	105	100	95	90	85	85	80	80
1900	140	140	140	140	130	125	120	110	105	100	100	95	90	85	85
2000	140	140	140	140	140	135	125	120	115	110	105	100	95	95	90
2100	140	140	140	140	140	140	135	130	120	115	110	105	105	100	95
2200	140	140	140	140	140	140	140	135	130	125	120	115	110	105	100
2300	140	140	140	140	140	140	140	140	135	130	125	120	115	110	105
2400	140	140	140	140	140	140	140	140	140	140	130	125	120	115	115
2500	140	140	140	140	140	140	140	140	140	140	140	135	130	125	120
2600	140	140	140	140	140	140	140	140	140	140	140	140	135	130	125
2700	140	140	140	140	140	140	140	140	140	140	140	140	140	135	130
2800	140	140	140	140	140	140	140	140	140	140	140	140	140	140	135
2900	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
3000	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140

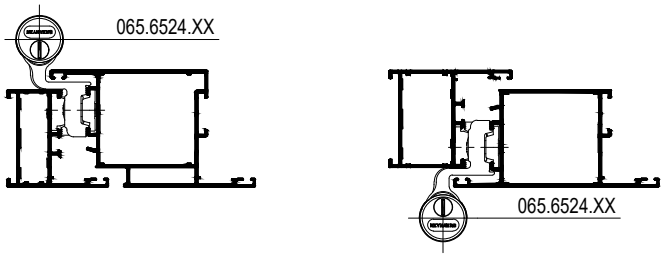
FH (mm)

F

FAPIM - BESLISSINGSMATRIX ARTIKELS
FAPIM - MATRICE DE DECISION ARTICLES
FAPIM - DECISION MATRIX ARTICLES
FAPIM - ENTSCHEIDUNGSMATRIX ARTIKEL

Reynaers Aluminium

D3005305

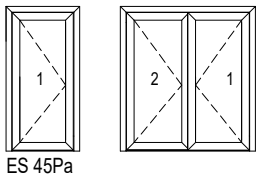


FAPIM

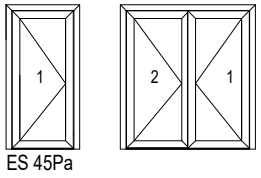
SYSTEEM SYSTEME SYSTEM SYSTEM		RAAMDEUR PORTE FENETRE WINDOW DOOR FENSTER TUER	DEURSCHARNIER 2-DELIG CHARNIERE PORTE 2-PARTIES DOOR HINGE 2-PART TUERBAND 2-TEILIG	DEURSCHARNIER 3-DELIG CHARNIERE PORTE 2-PARTIES DOOR HINGE 3-PART TUERBAND 3-TEILIG	PSYCHOLOGISCHE VERGRENDELING BLOCAGE PSYCHOLOGIQUE PSYCHOLOGICAL SAFETY LOCK PSYCHOLOGISCHE BLOCKIERUNG
ES 45Pa		010.0136.XX 010.0112.XX	065.6524.XX	**065.6547.XX**	061.8725.00 (2x/hinge)
		010.0183.XX 010.0112.XX	065.6524.XX	065.6547.XX	061.8725.00 (2x/hinge)
		010.0136.XX 010.0492.XX	065.6524.XX	065.6547.XX	061.8725.00 (2x/hinge)
		010.0183.XX 010.0492.XX	065.6524.XX	065.6547.XX	061.8725.00 (2x/hinge)

ES 45Pa

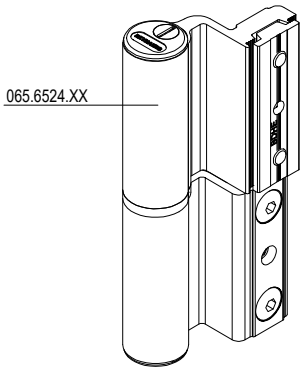
FAPIM - MONTAGE SCHARNIEREN
FAPIM - ASSEMBLAGE CHARNIERES
FAPIM - ASSEMBLY HINGES
FAPIM - MONTAGE BAENDER

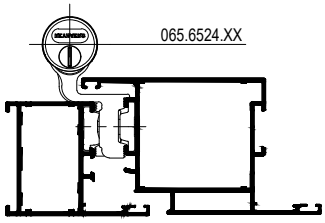


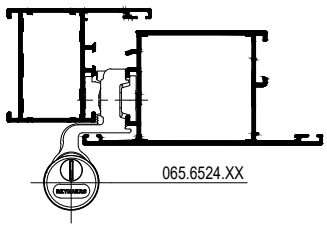
ES 45Pa

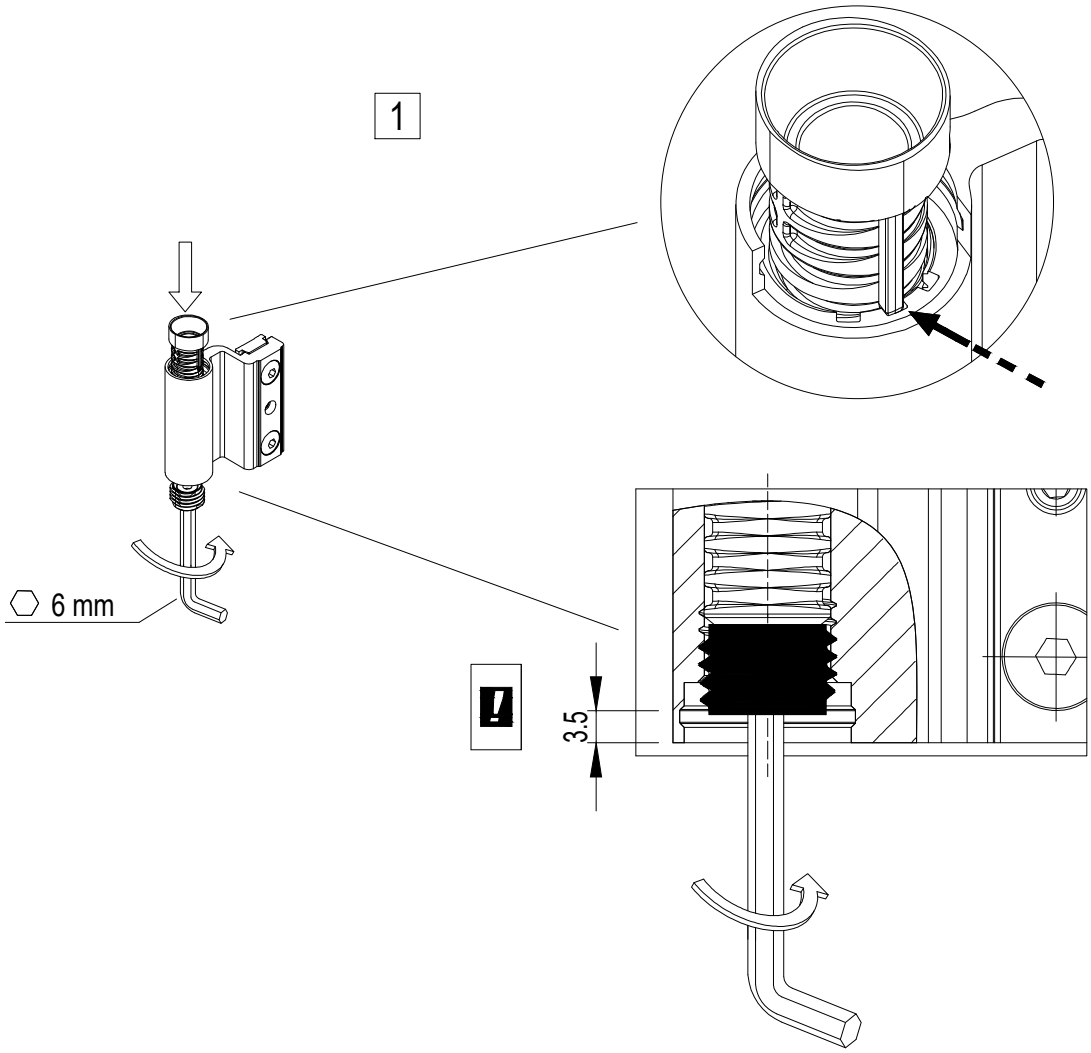


ES 45Pa









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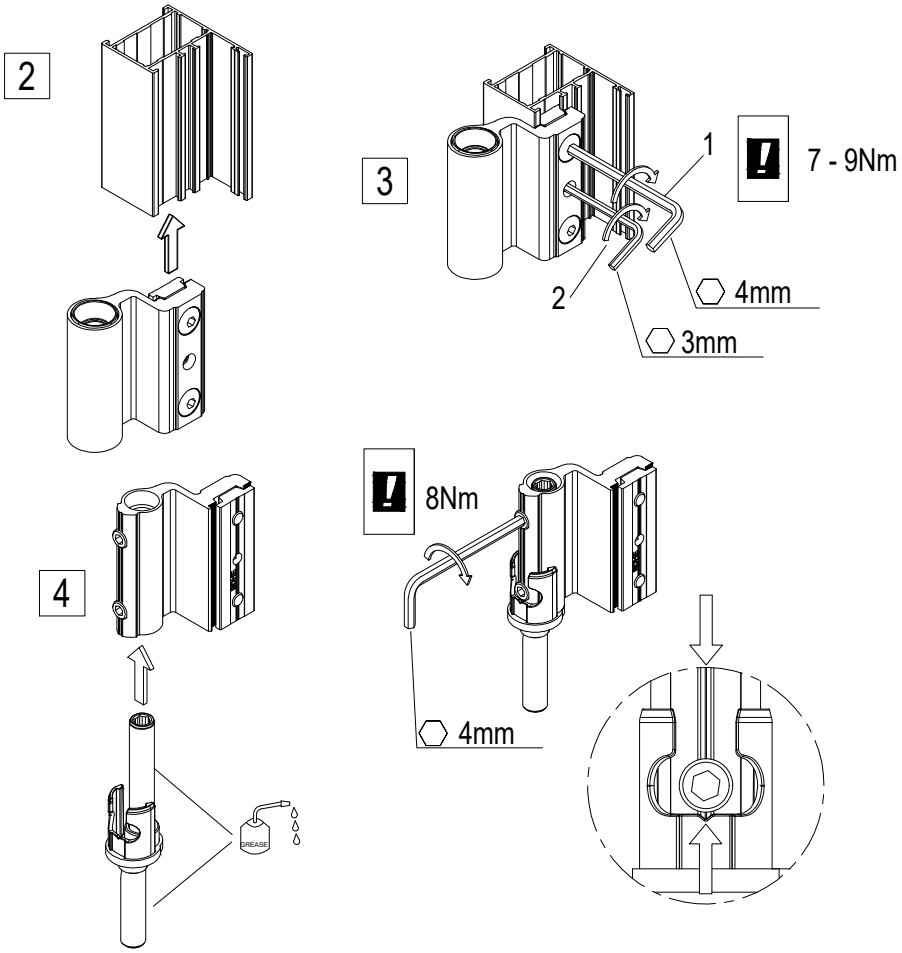
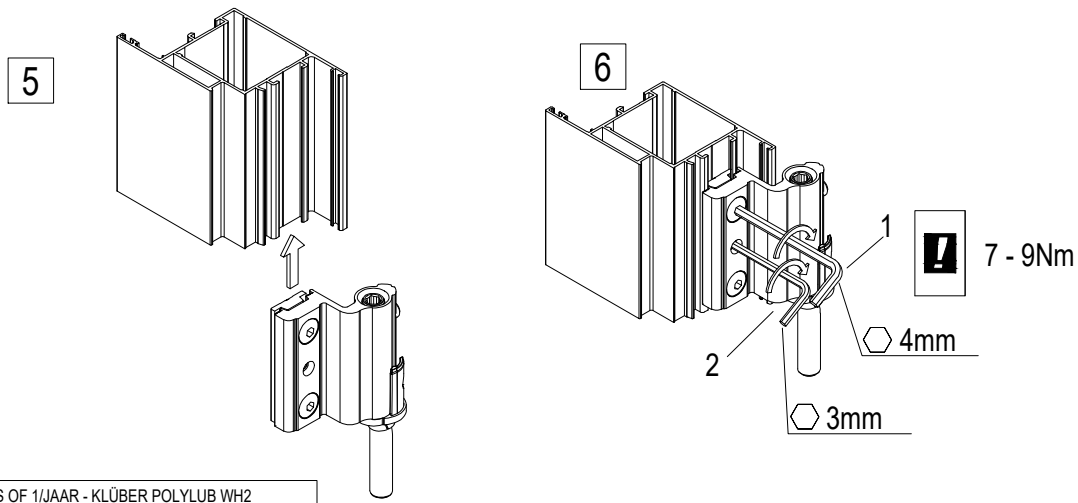
D3005306





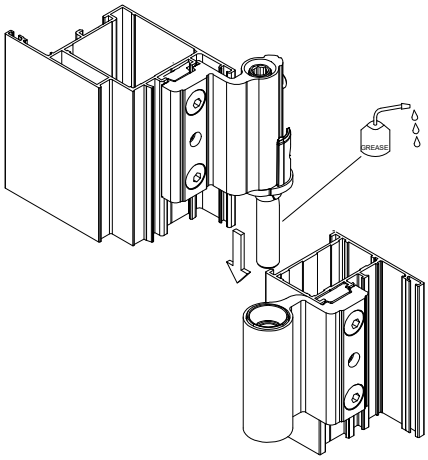
SMERING: 25000/CYCLUS OF 1/JAAR - KLÜBER POLYLUB WH2
LUBRIFIEZ: 25000/CYCLE OU 1/AN - KLÜBER POLYLUB WH2
LUBRICATE: 25000/CYCLE OR 1/YEAR - KLÜBER POLYLUB WH2
SCHMIEREN: 25000/ZYKLUS ODER 1/JAHR - KLÜBER POLYLUB WH2

MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

F

D3005306

7



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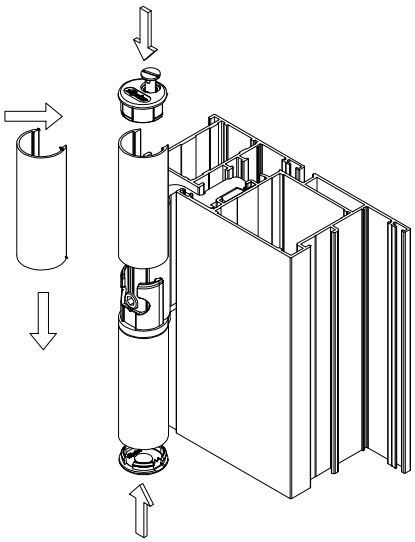

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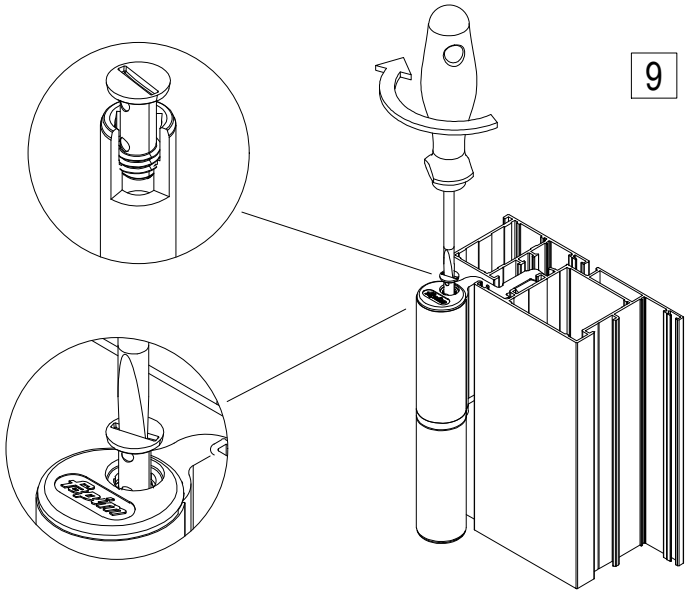


	SMERING: 25000/CYCLUS OF 1/JAAR - KLÜBER POLYLUB WH2 LUBRIFIEZ: 25000/CYCLE OU 1/AN - KLÜBER POLYLUB WH2 LUBRICATE: 25000/CYCLE OR 1/YEAR - KLÜBER POLYLUB WH2 SCHMIEREN: 25000/ZYKLUS ODER 1/JAHR - KLÜBER POLYLUB WH2

MONTAGEVOLGORDE L 'ORDRE DE MONTAGE THE ORDER OF ASSEMBLY MONTAGEREIHENFOLGE	1 2 3 .

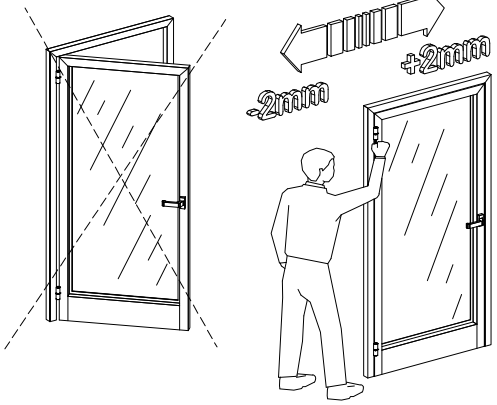
D3005311

ES 45Pa

FAPIM - REGELEN SCHARNIEREN
FAPIM - AJUSTÉE CHARNIERES
FAPIM - ADJUST HINGES
FAPIM - EINSTELLEN BAENDER

HORIZONTAAL REGELING
REGLAGE HORIZONTAL
HORIZONTAL ADJUSTMENT
HORIZONTAL VERSTELLUNG

1



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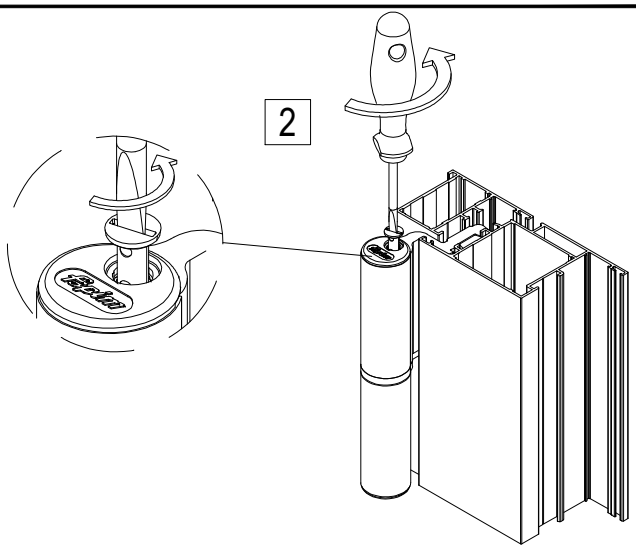

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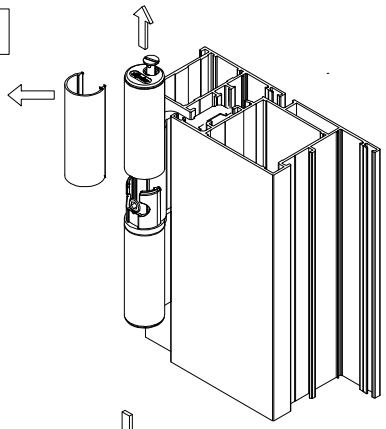

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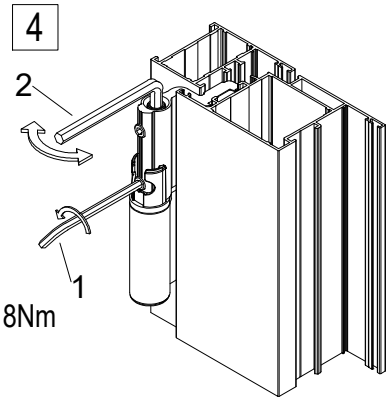
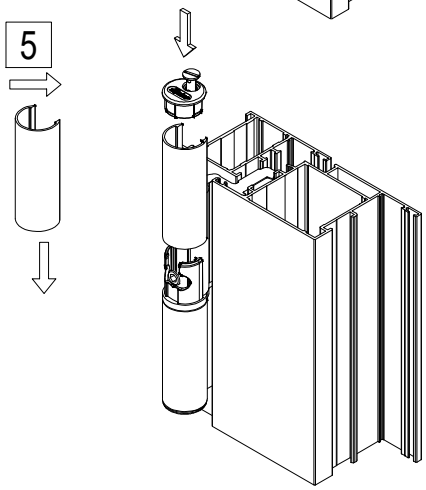


6 - 8Nm

5



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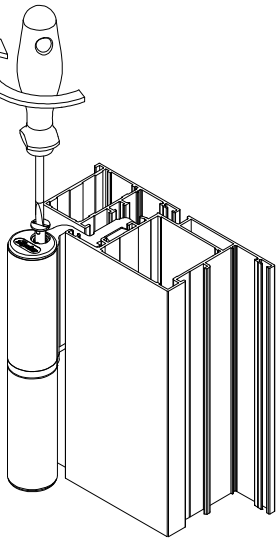
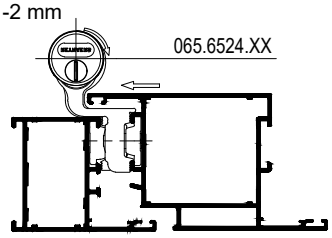
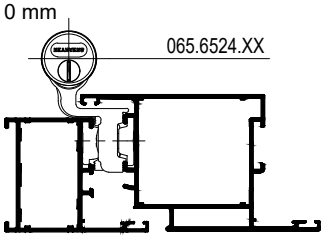


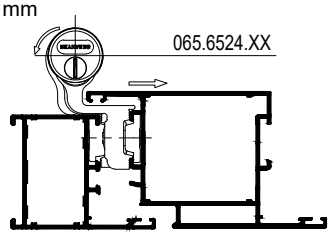
-2 mm



0 mm



+2 mm



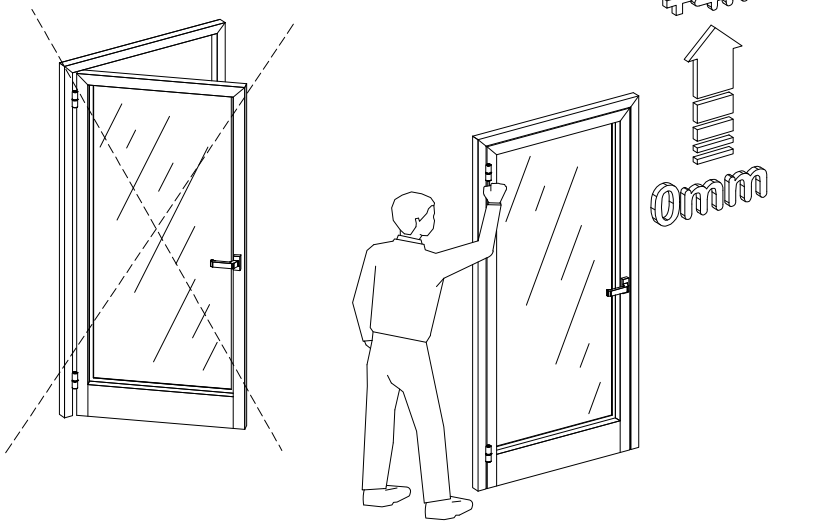
MONTAGEVOLGORDE
L'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

F

D3005311

VERTIKAAL REGELING
REGLAGE VERTICAL
VERTICAL ADJUSTMENT
VERTIKAL VERSTELLUNG

1



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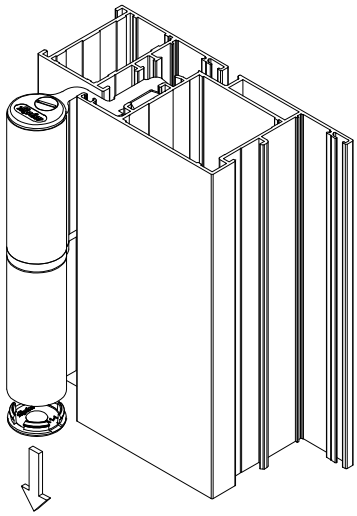

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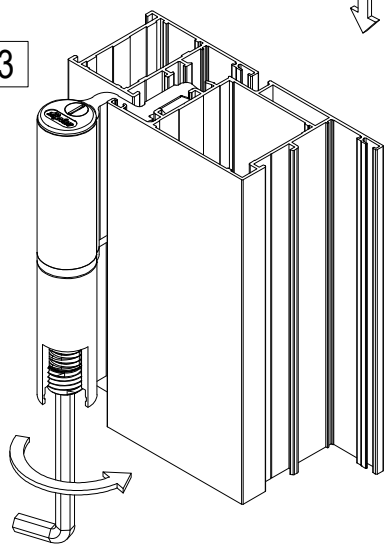

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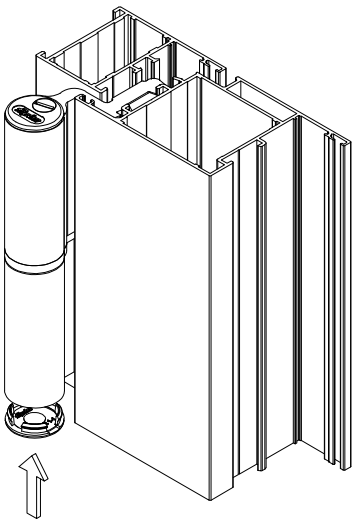
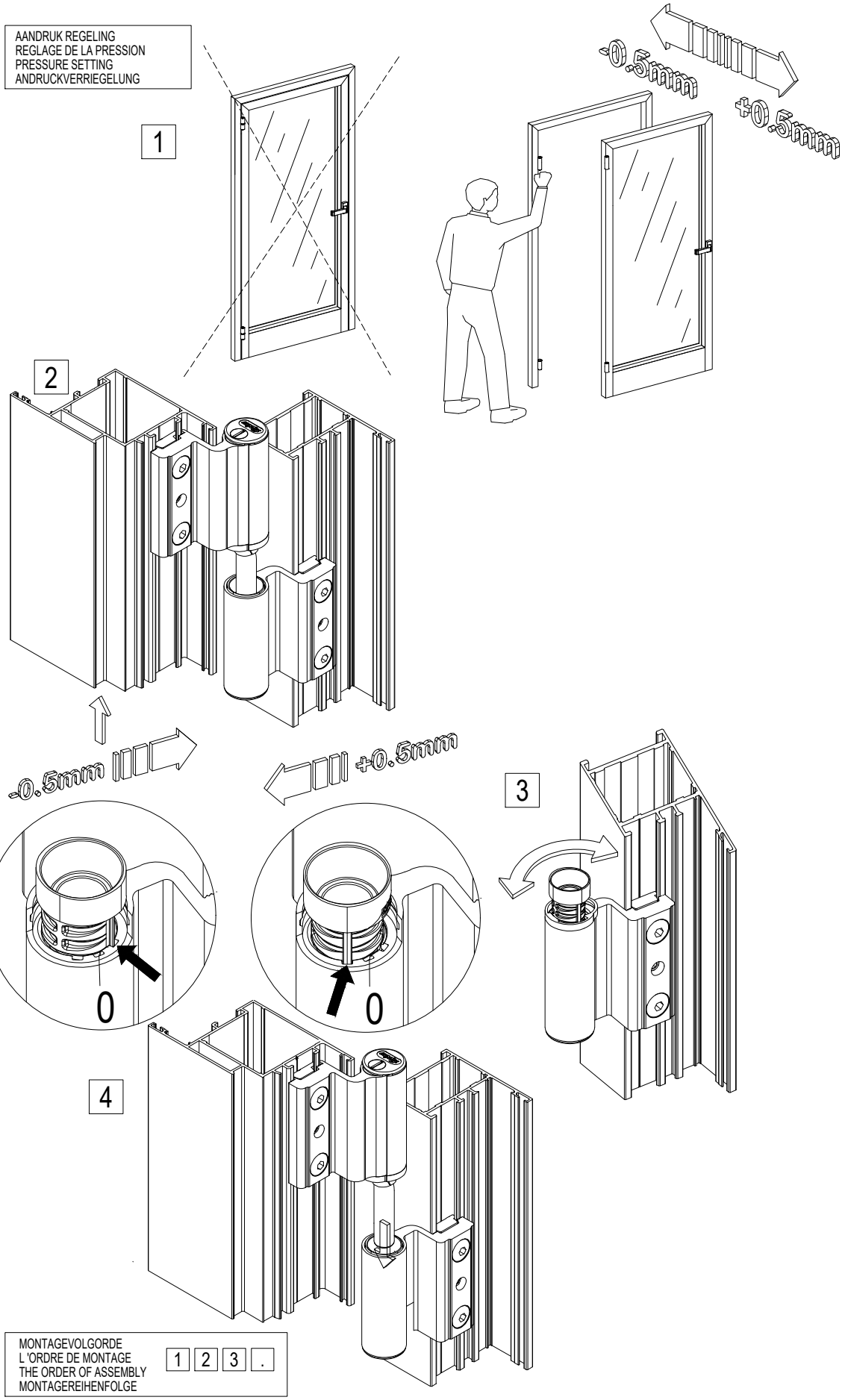


MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

D3005314

F

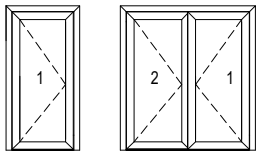

AANDRUK REGELING
REGLAGE DE LA PRESSION
PRESSURE SETTING
ANDRUCKVERRIEGELUNG
1
-0.5mm
+0.5mm
2
-0.5mm
+0.5mm
3
0
0
4
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

D3005314

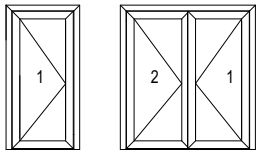
F

ES 45Pa

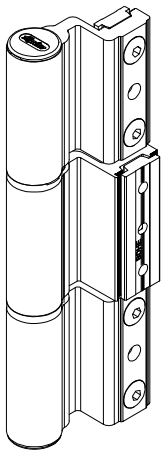
FAPIM - MONTAGE SCHARNIEREN
FAPIM - ASSEMBLAGE CHARNIERES
FAPIM - ASSEMBLY HINGES
FAPIM - MONTAGE BAENDER

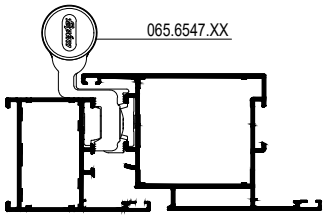


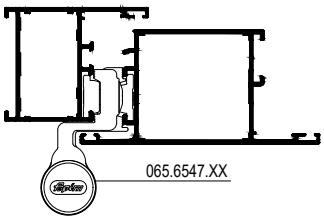
ES 45Pa

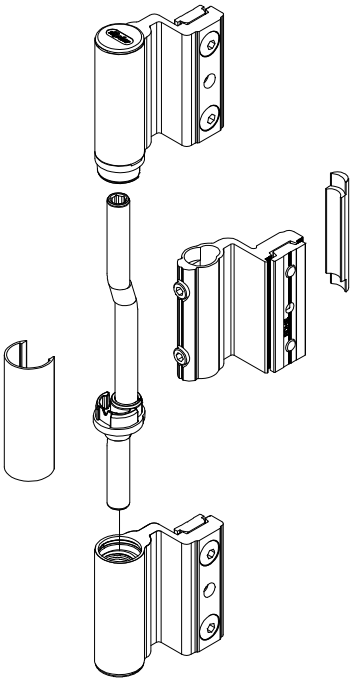


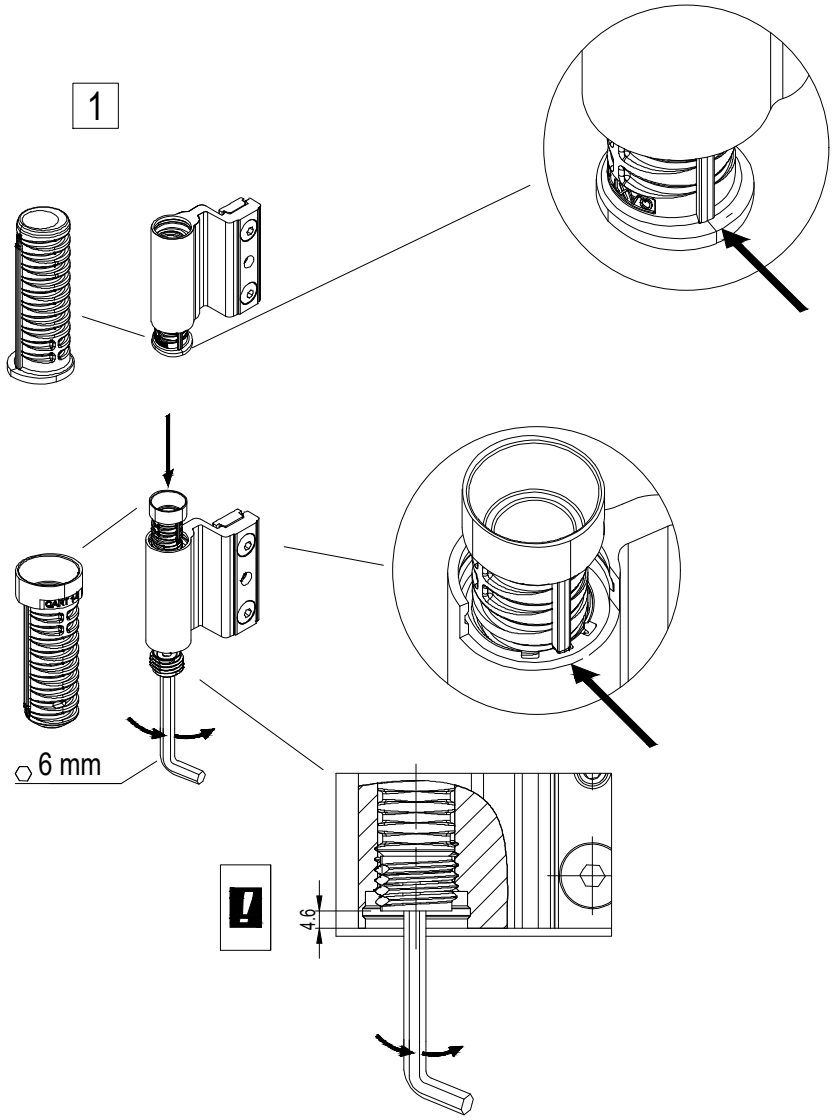
ES 45Pa







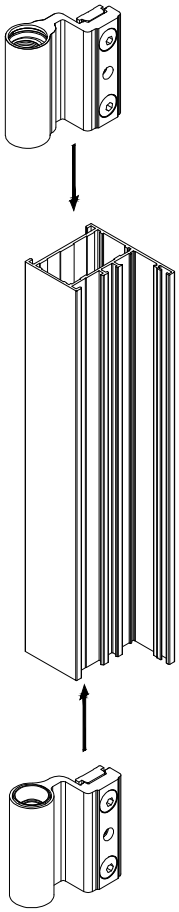




MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

F

2



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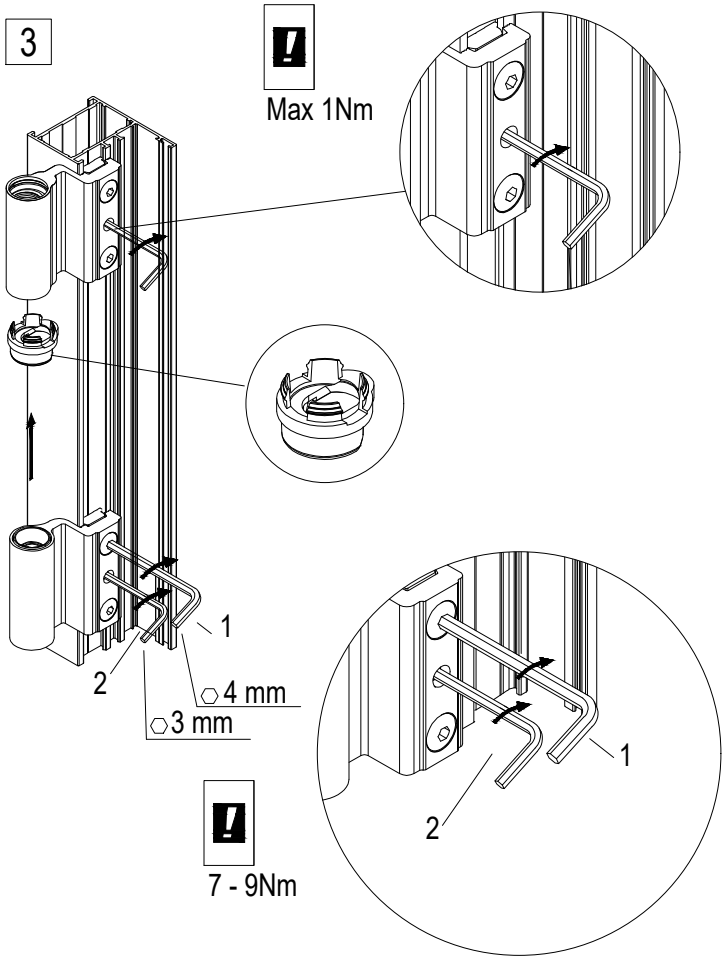

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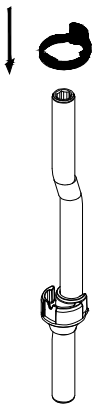

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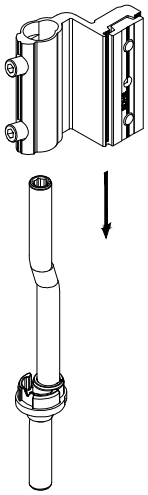

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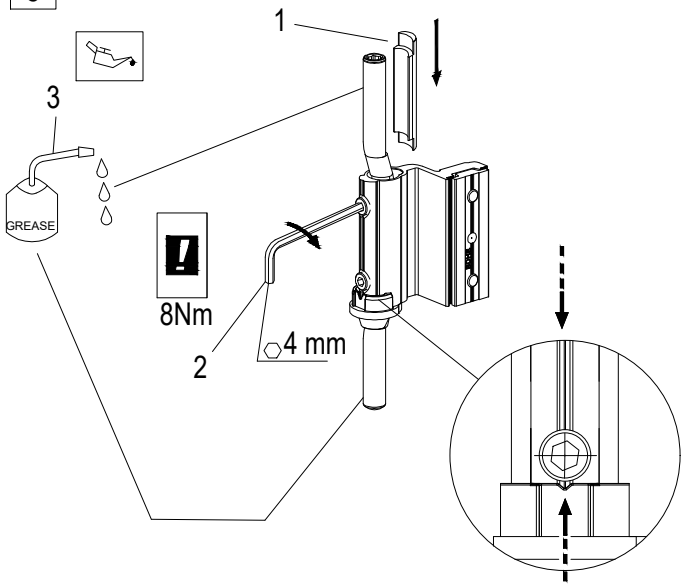


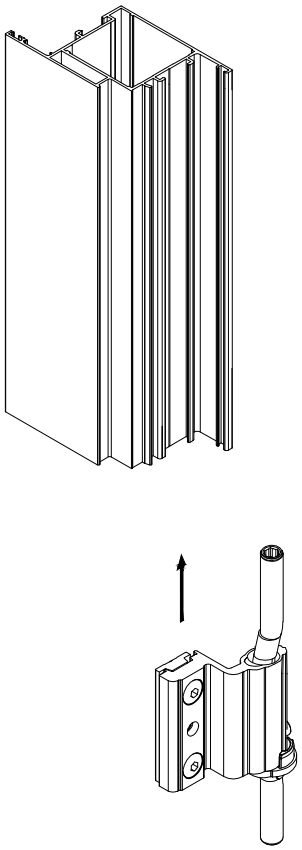
SMERING: 25000/CYCLUS OF 1/JAAR - KLÜBER POLYLUB WH2
LUBRIFIEZ: 25000/CYCLE OU 1/AN - KLÜBER POLYLUB WH2
LUBRICATE: 25000/CYCLE OR 1/YEAR - KLÜBER POLYLUB WH2
SCHMIEREN: 25000/ZYKLUS ODER 1/JAHR - KLÜBER POLYLUB WH2

MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

F

7



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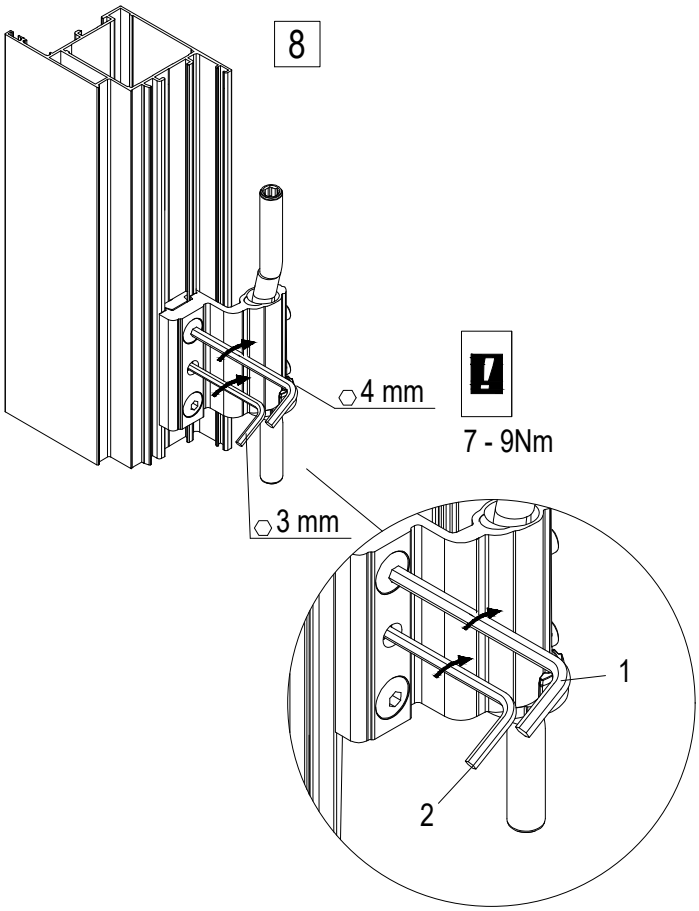

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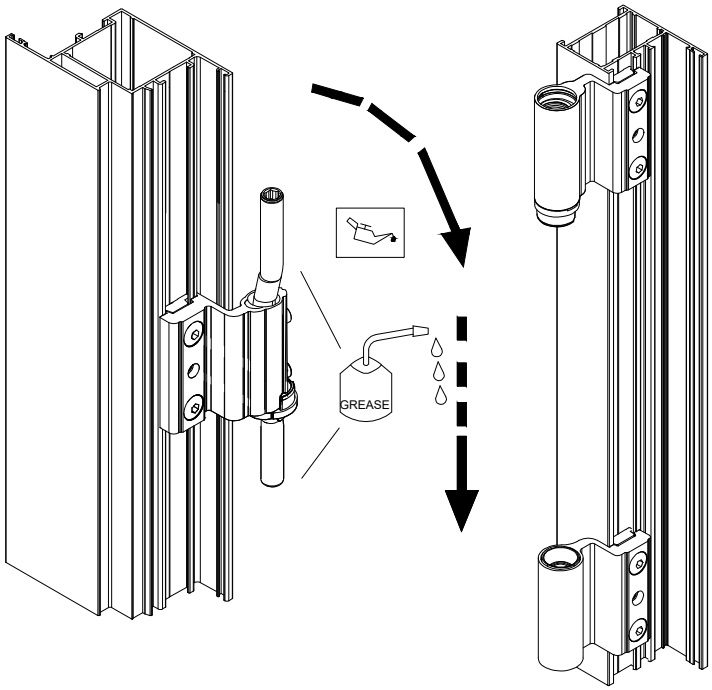

SMERING: 25000/CYCLUS OF 1/JAAR - KLÜBER POLYLUB WH2
LUBRIFIEZ: 25000/CYCLE OU 1/AN - KLÜBER POLYLUB WH2
LUBRICATE: 25000/CYCLE OR 1/YEAR - KLÜBER POLYLUB WH2
SCHMIEREN: 25000/ZYKLUS ODER 1/JAHR - KLÜBER POLYLUB WH2

MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

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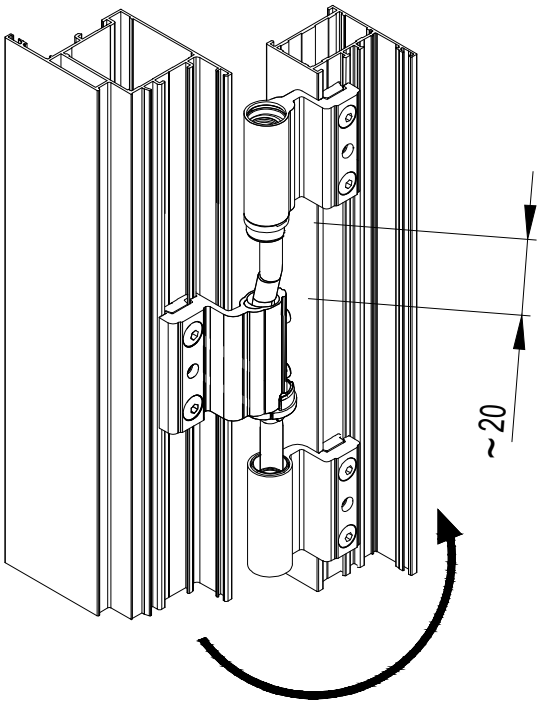
10



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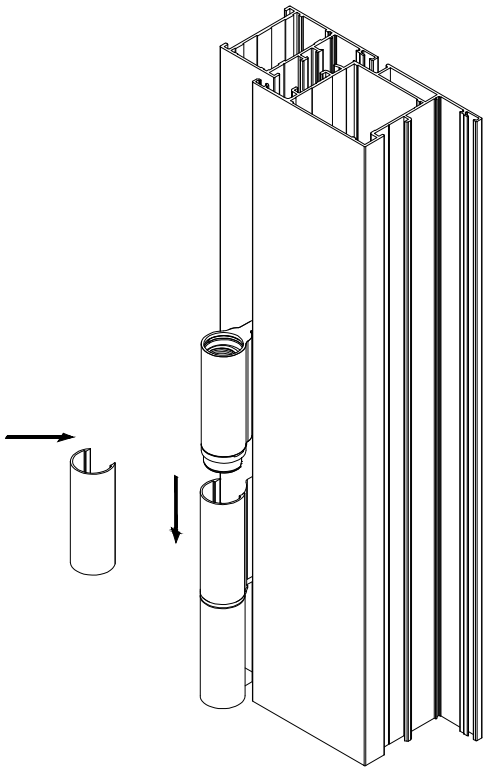

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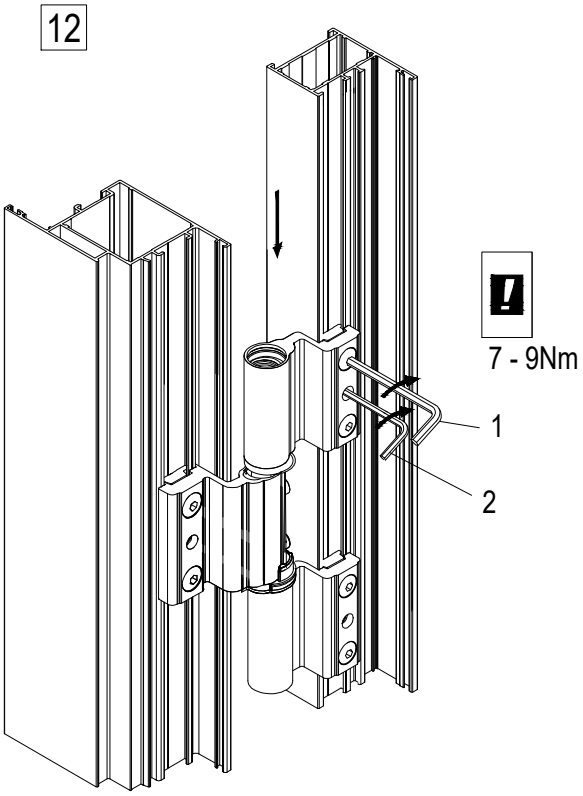

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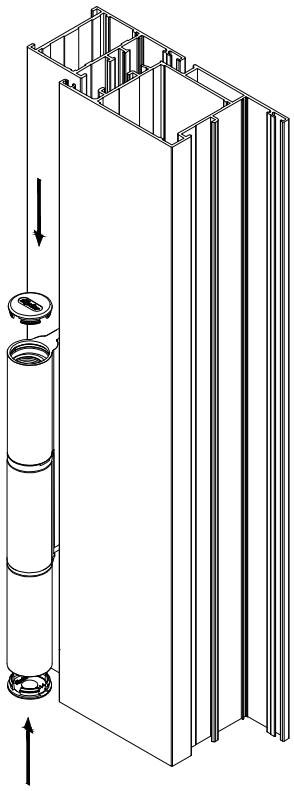

MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

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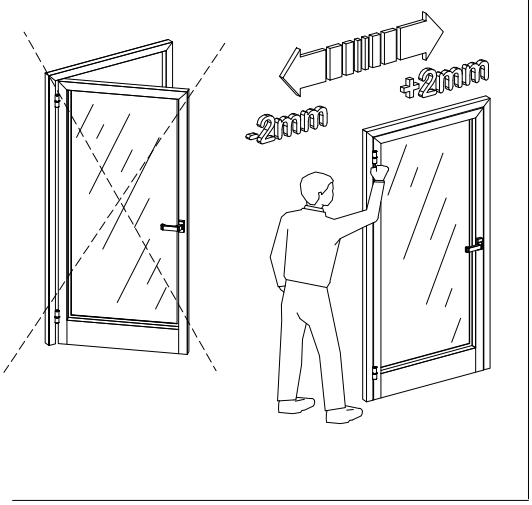
HORIZONTAAL REGELING
REGLAGE HORIZONTAL
HORIZONTAL ADJUSTMENT
HORIZONTAL VERSTELLUNG



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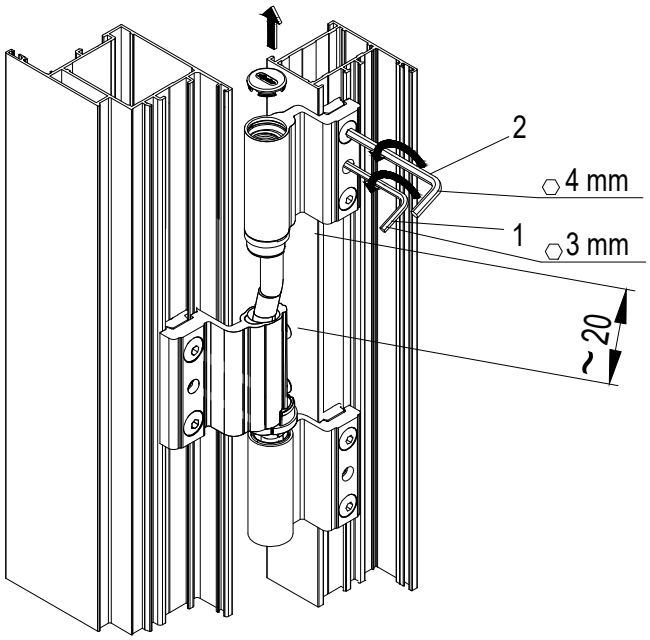

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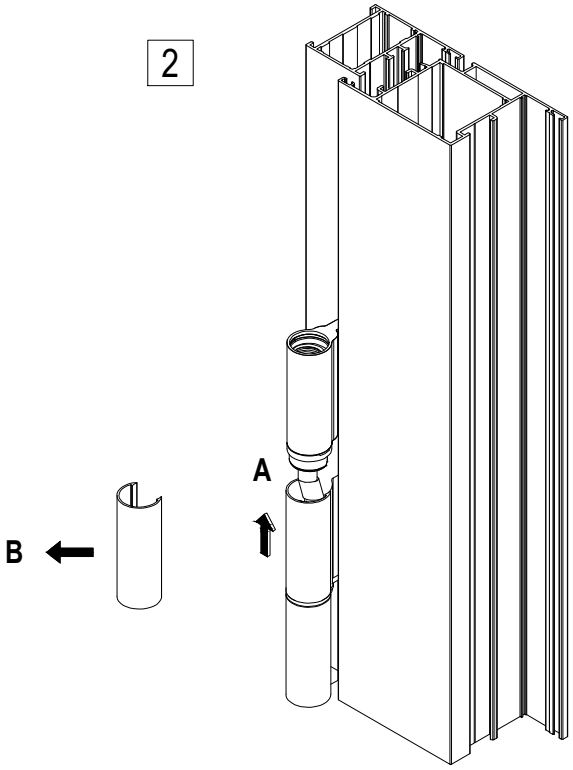
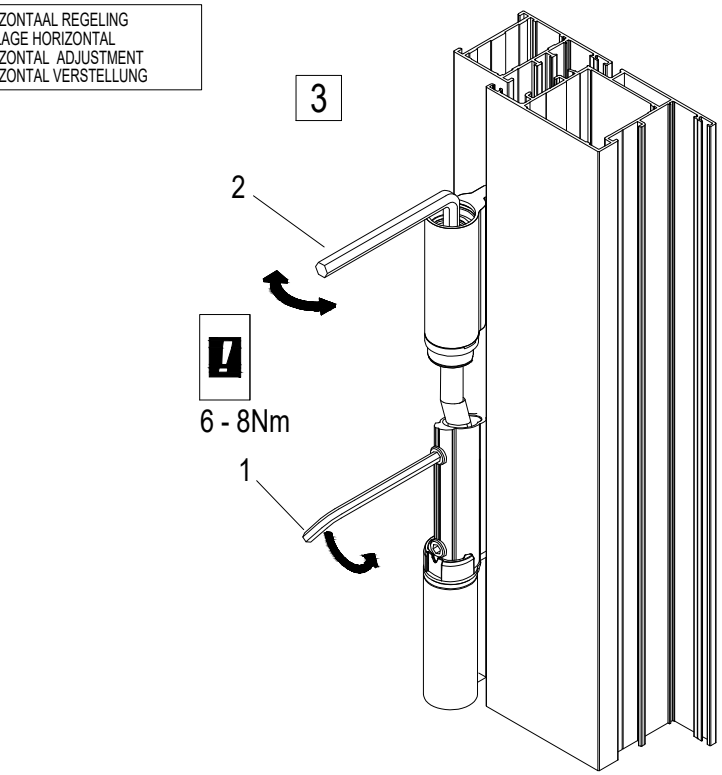


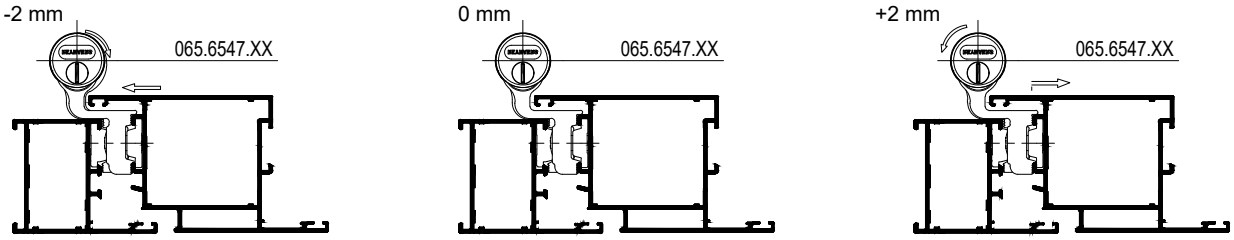
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

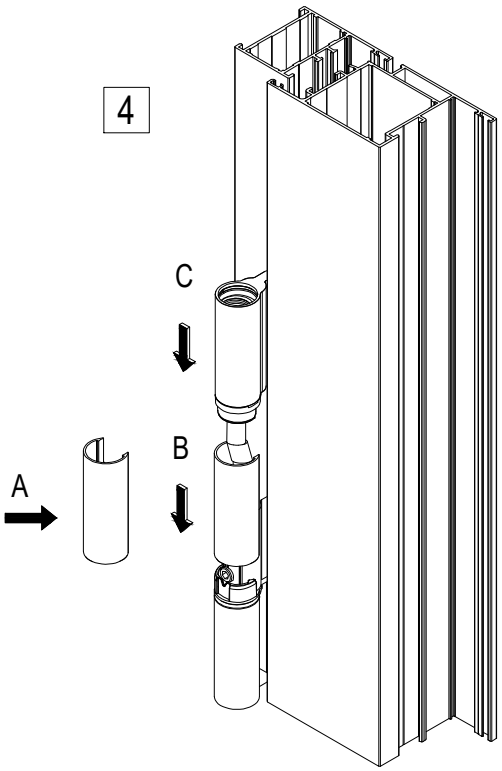
1 2 3 .

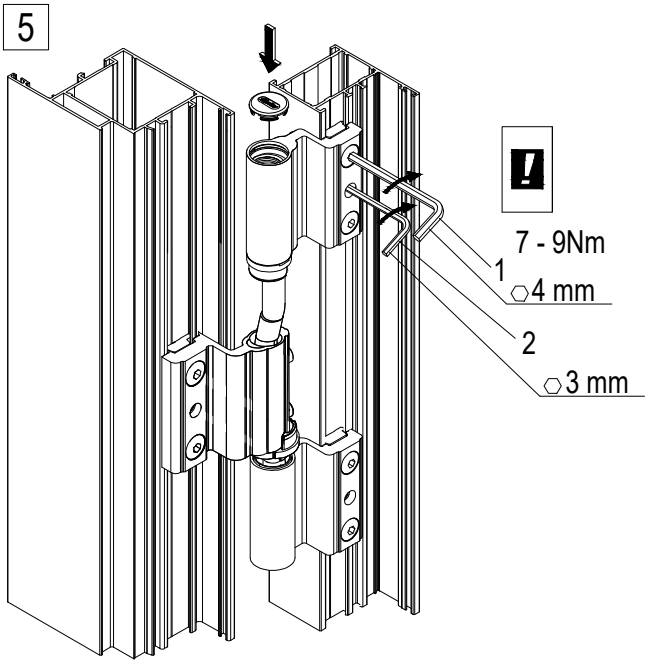
F

HORIZONTAAL REGELING
REGLAGE HORIZONTAL
HORIZONTAL ADJUSTMENT
HORIZONTAL VERSTELLUNG









MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

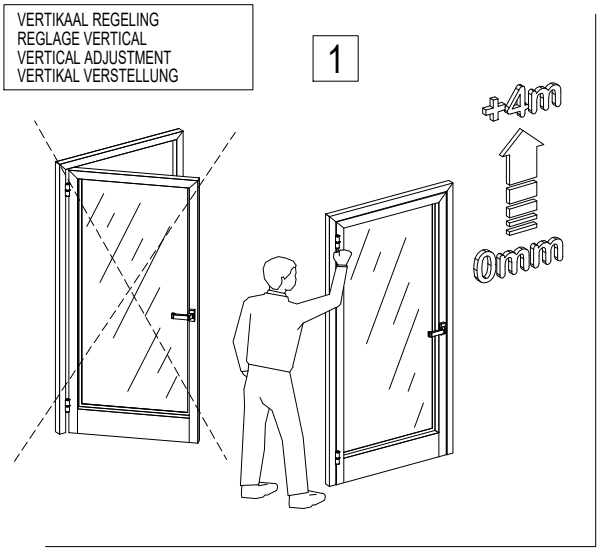
1 2 3 .

F

FAPIM - REGELEN SCHARNIEREN
FAPIM - AJUSTÉE CHARNIERES
FAPIM - ADJUST HINGES
FAPIM - EINSTELLEN BAENDER

VERTIKAAL REGELING
REGLAGE VERTICAL
VERTICAL ADJUSTMENT
VERTIKAL VERSTELLUNG

1



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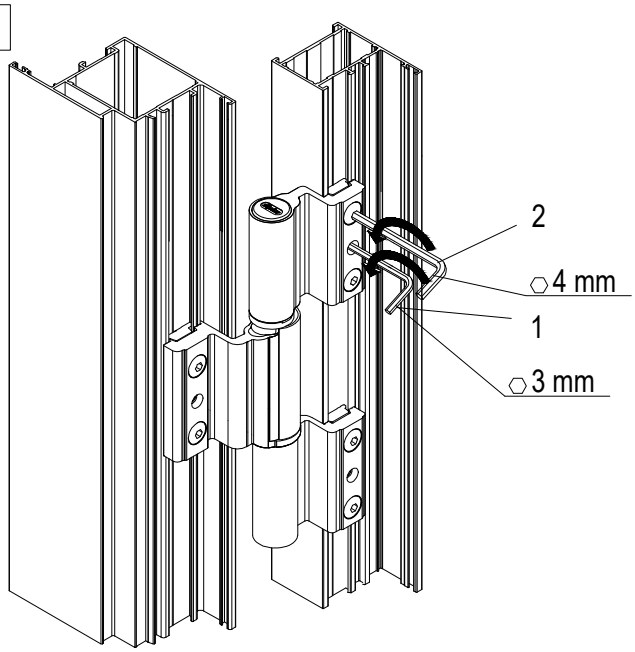

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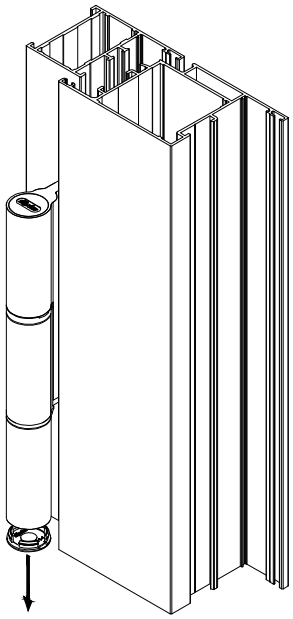

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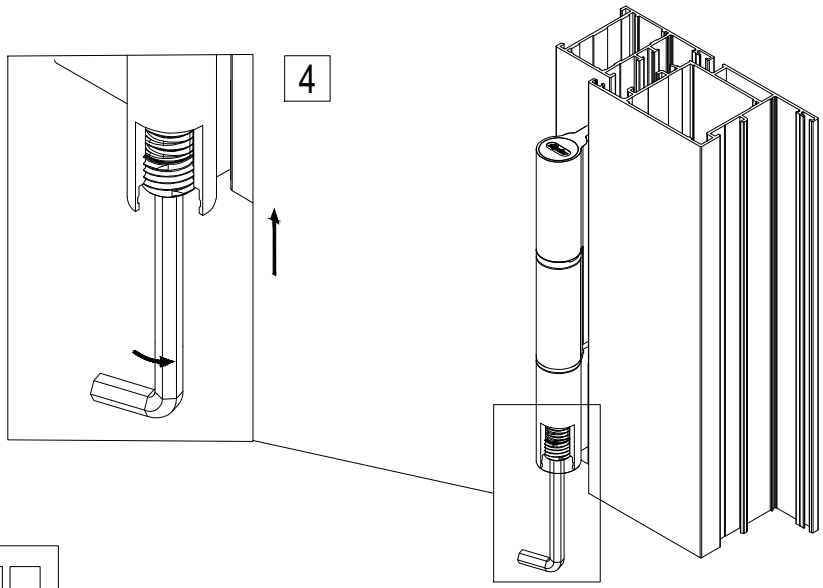


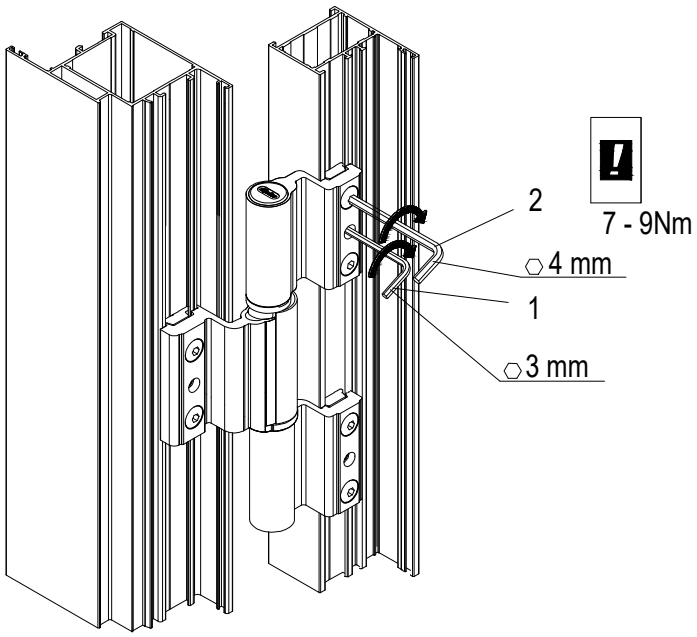
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

F

VERTIKAAL REGELING
REGLAGE VERTICAL
VERTICAL ADJUSTMENT
VERTIKAL VERSTELLUNG

5



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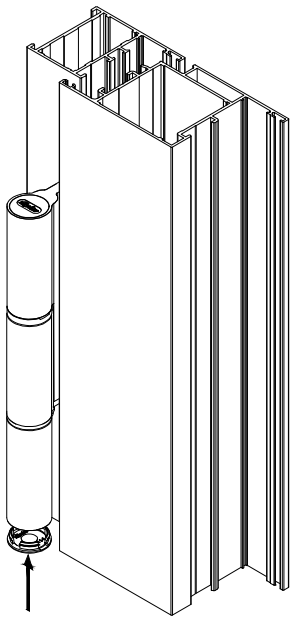
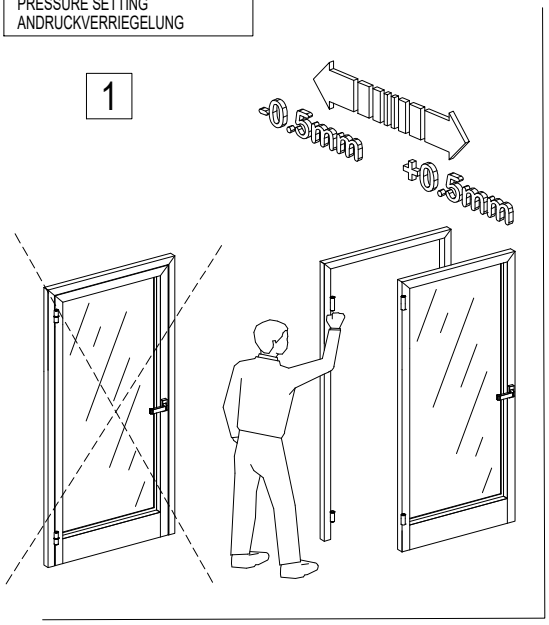


MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

F

AANDRUK REGELING
REGLAGE DE LA PRESSION
PRESSURE SETTING
ANDRUCKVERRIEGELUNG

1



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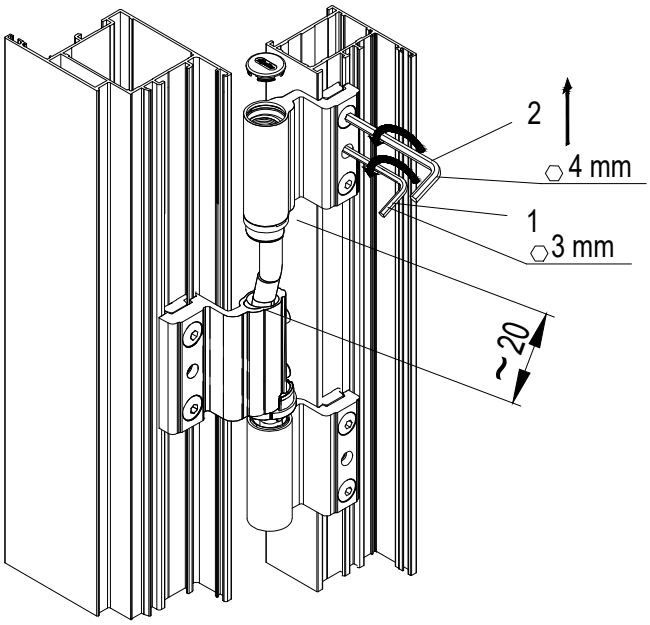

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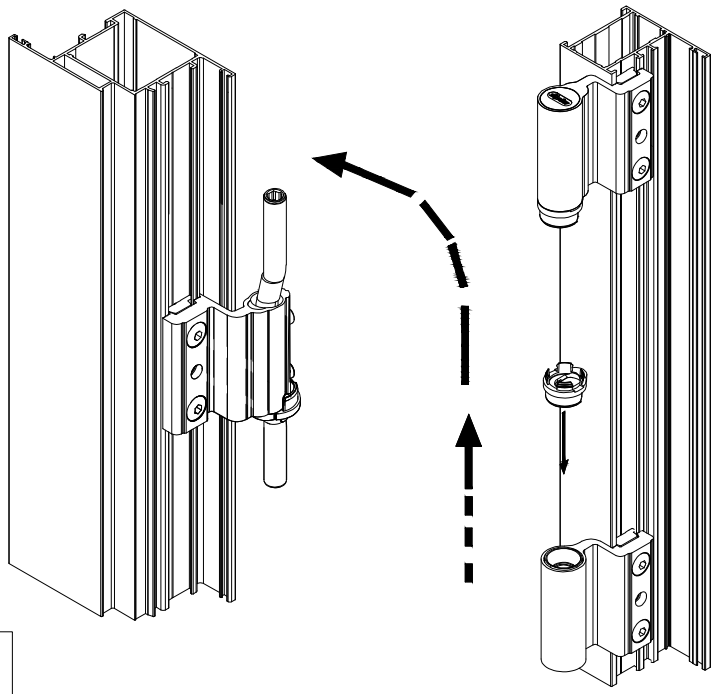


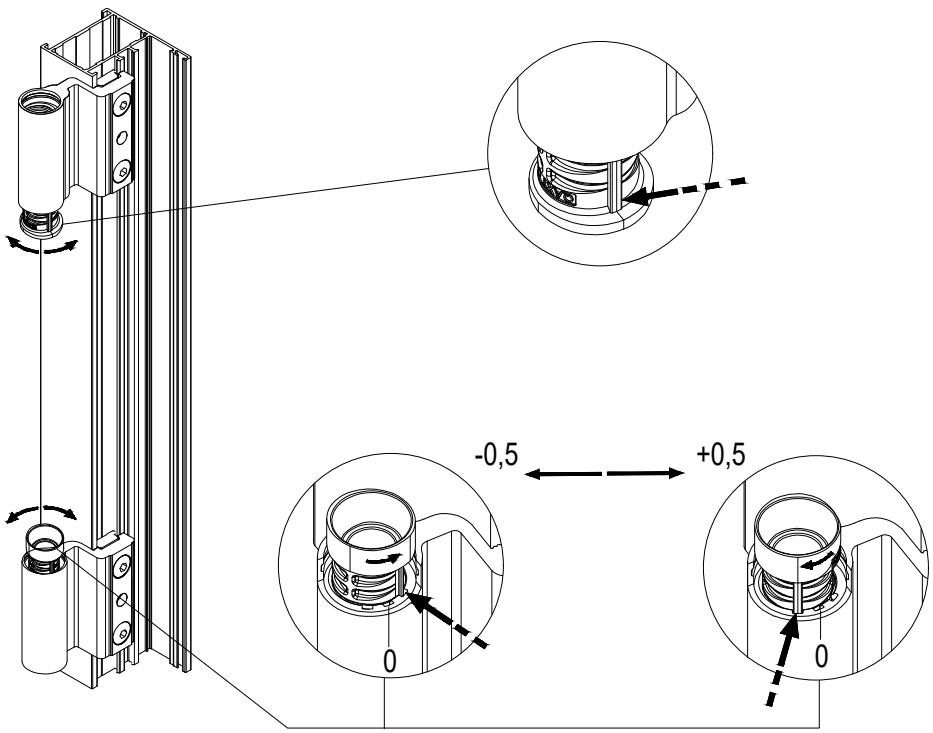
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

F

AANDRUK REGELING
REGLAGE DE LA PRESSION
PRESSURE SETTING
ANDRUCKVERRIEGELUNG

4



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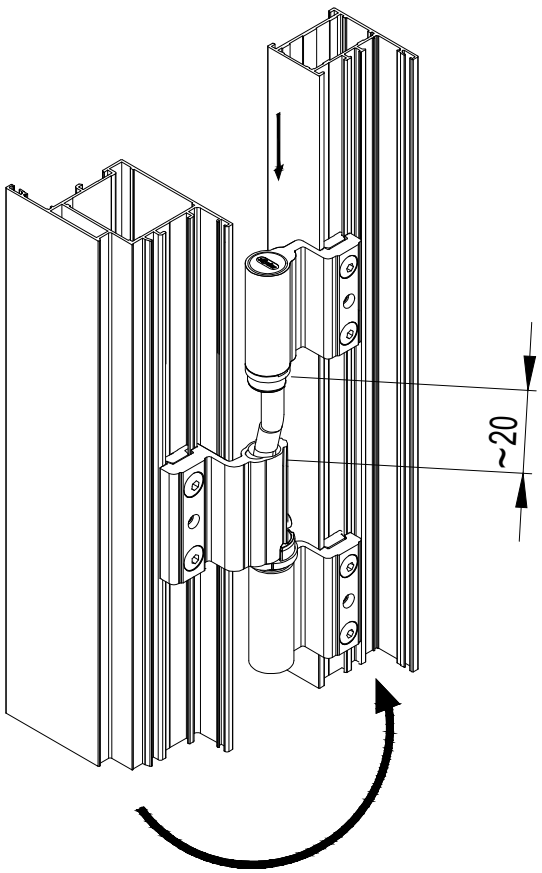


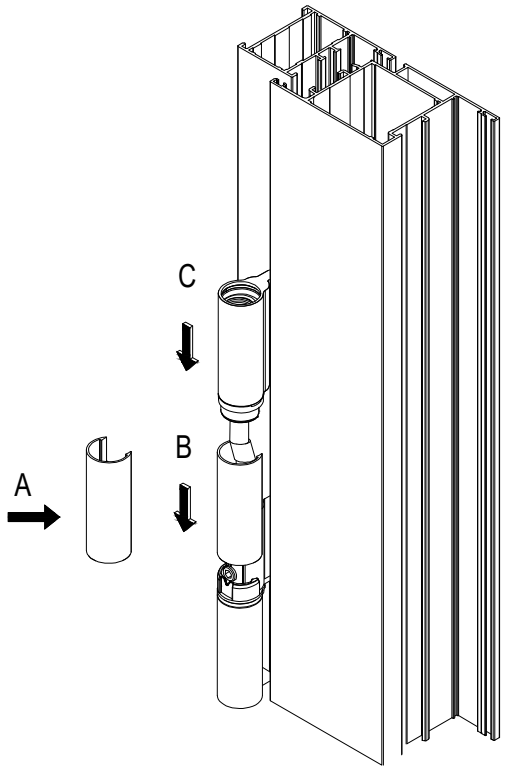
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

F

AANDRUK REGELING
REGLAGE DE LA PRESSION
PRESSURE SETTING
ANDRUCKVERRIEGELUNG

6



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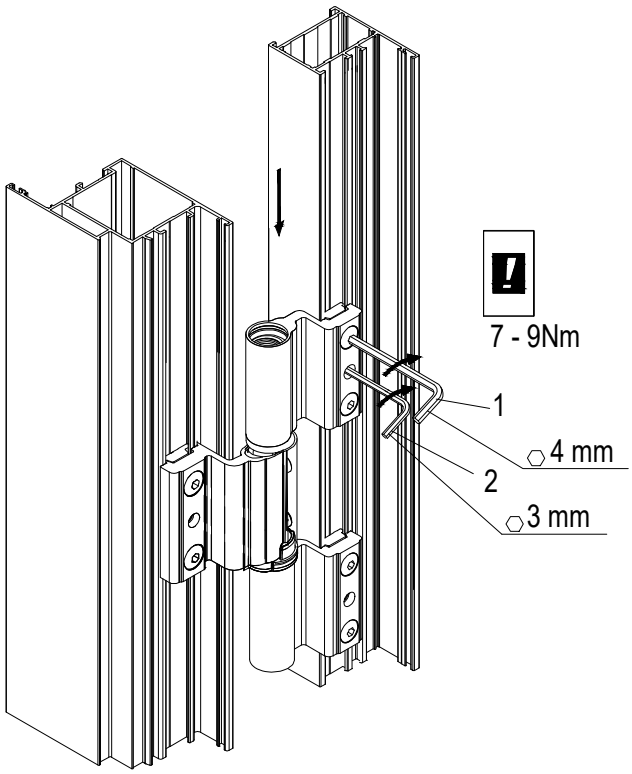
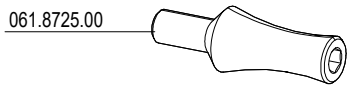


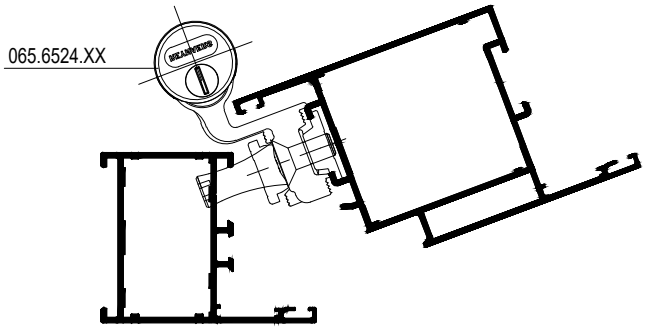
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

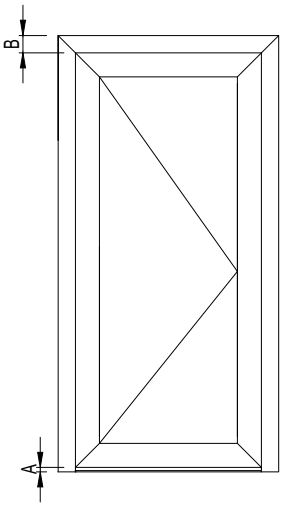
schaal - échelle
scale - Maßstab
1/2

F

	GEEN INBRAAKWERENDE KLASSE (EN, NEN) AUCUNE CLASSE DE PROTECTION ANTI-VOL (EN, NEN) NO BURGLAR-PROTECTION CLASS (EN, NEN) KEINE EINBRUCHHEMMENDE KLASSE (EN, NEN)
	PSYCHOLOGISCHE VERGRENDELING BLOCAGE PSYCHOLOGIQUE PSYCHOLOGICAL SAFETY LOCK PSYCHOLOGISCHE BLOCKIERUNG
	061.8725.00(min. 2x/hinge)

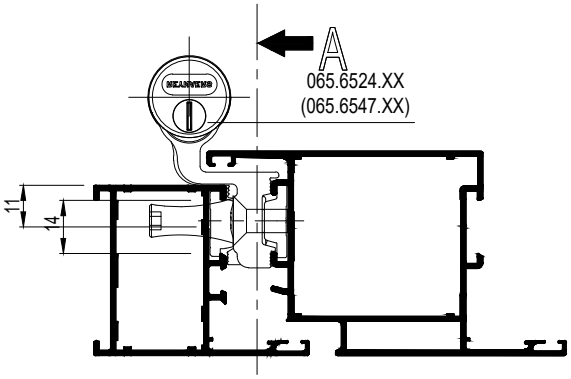






D3005327

F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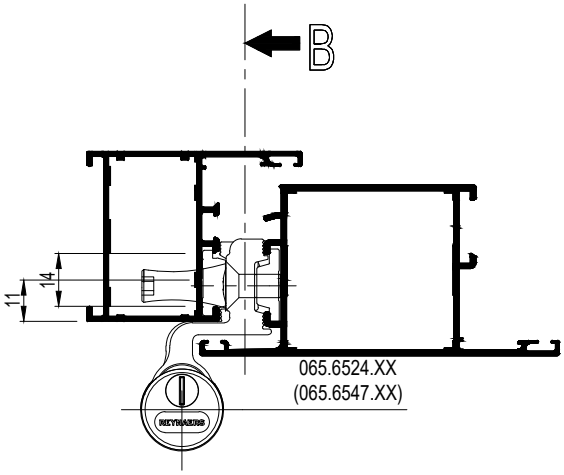
065.6524.XX
(065.6547.XX)
11
14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11
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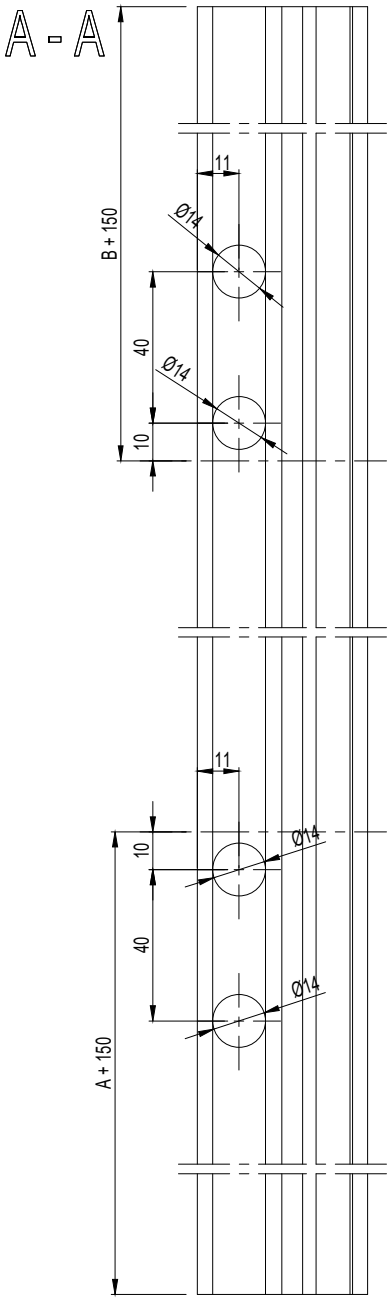
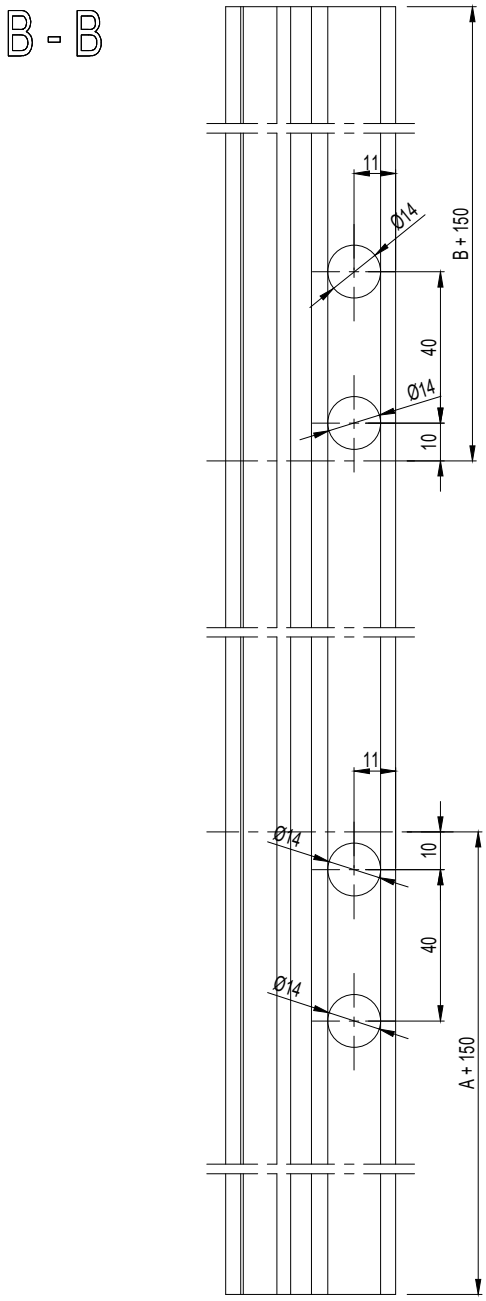
(065.6547.XX)


A - A
B + 150
11
Ø14
40
Ø14
10
11
10
Ø14
40
Ø14
A + 150


B - B
11
Ø14
B + 150
40
Ø14
10
11
Ø14
10
40
Ø14
A + 150

F

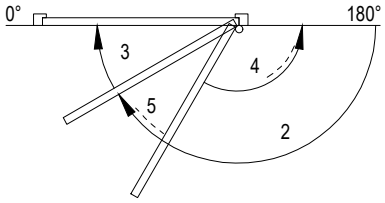
D3005327

Door Type	max. FB (power size) *	min./max. hinge distance	Closing Power	Door Side	DIN L/R	Closer Type	Assembly	Closer Type	Articles	Mounting Plate
	max. FB 1250mm (max power 5)		2-4-5		DIN L/R		110	TS 2000V	065.7440.14	065.7587.14
									065.7451.14	-
									065.7450.14	-
	max. FB 1400mm (max power 6)		1-6		DIN L/R			TS 4000	065.7441.14	065.7582.14
									065.7451.14	-
									065.7450.14	-
	max. FB 1100mm (max power 4)		1-4		DIN L/R		110	TS 3000 V	065.7442.14	065.7588.14
									065.7452.14	-
	max. FB 1400mm (max power 6)		2-6		DIN L/R			TS 5000	065.7443.14	065.7582.14
									065.7452.14	-
	max. FB 1100mm (max power 4)		1-4		DIN L/R		44	TS 3000 V L	065.7442.14	065.7588.14
									065.7453.14	-
	max. FB 1400mm (max power 6)		2-6		DIN L/R			TS 5000 L	065.7444.14	065.7582.14
									065.7453.14	-

*) ZIE MAX AFMETINGEN SYSTEEM
VOIR DIMENSIONS MAX. SYSTEME
SEE MAX. DIMENSIONS SYSTEM
SIEHE MAX. ABM. SYSTEM

F

Adjustment							
Door Closers	1	2	3	4	5	6	7
TS 2000 V	YES	YES				180°	70°-150°
TS 4000 (1-6)	YES	YES		YES		180°	70°-150°
TS 3000 V	YES	YES	YES			180°	80°-130°
TS 5000	YES	YES	YES	YES		180°	80°-130°
TS 5000 L	YES	YES	YES	YES		180°	80°-130°



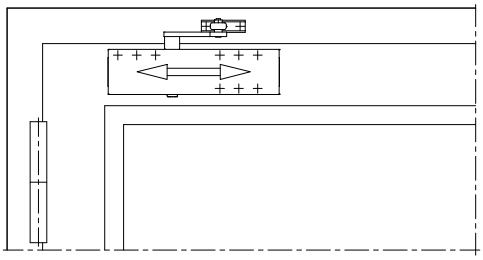
Closer Power Size	Max. FB (mm)	Max. FG (kg)
1	750	20 *
2	850	40 *
3	950	60 *
4	1100	80 *
5	1250	100 *
6	1400	120 *
7	1600	160 *

1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
3. Eindslag - Action d'une clenche - Latching action - Endschlag
4. Openingsdemping - Antisiphon - Back check - Öffnungsdämpfung
5. Sluitvertraging - Action de fermeture retardée - Delayed closing action - Schliessverzögerung
6. Openingshoek - Angle d'ouverture - Opening angle - Öffnungswinkel
7. Vastzethoek - Angle de fixation - Fixing angle - Befestigungswinkel

*)

REFERENTIEGEWICHTEN
POIDS DE REFERENCE
REFERENCE WEIGHTS
REFERENZGEWICHTE

TS 2000	Instellen sluitkracht bij montage Réglez la force de fermeture lors de l'assemblage Set closing force when mounting Set Schließkraft bei der Montage



F

NIET SCHARNIERZIJDE : BESLISSINGSMATRIX
CONTRE COTE DE CHARNIERES : MATRICE DE DECISION
NON HINGE SIDE : DECISION MATRIX
GEGEN BANDSEITE : ENTSCHEIDUNGSMATRIX

Door Type	max. FB (power size) *	min./max. hinge distance	Closing Power	Door Side	DIN L/R	Closer Type	Assembly	Closer Type	Articles	Mounting Plate
	max. FB 1250mm (max power 5)		2 - 4 - 5		DIN L/R		110	TS 2000 V	065.7440.14	065.7587.14
									065.7451.14	-
									065.7450.14	-
	max. FB 1400mm (max power 6)		1 - 6		DIN L/R			TS 4000	065.7441.14	065.7582.14
									065.7451.14	-
									065.7450.14	-
	max. FB 1100mm (max power 4)		1 - 4		DIN L/R		90	TS 3000 V L	065.7442.14	-
									065.7453.14	-
	max. FB 1400mm (max power 6)		2 - 6		DIN L/R			TS 5000 L	065.7444.14	065.7582.14
									065.7453.14	-
	max. FB 1100mm (max power 4)		1 - 4		DIN L/R		110	TS 3000 V	065.7442.14	065.7588.14
									065.7452.14	-
	max. FB 1400mm (max power 6)		2 - 6		DIN L/R			TS 5000	065.7443.14	065.7582.14
									065.7452.14	-

*) ZIE MAX AFMETINGEN SYSTEEM
VOIR DIMENSIONS MAX. SYSTEME
SEE MAX. DIMENSIONS SYSTEM
SIEHE MAX. ABM. SYSTEM

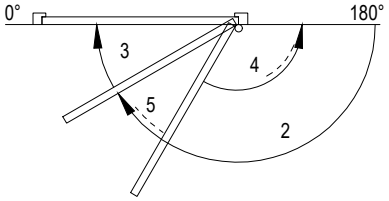
***) BEPERKTE OPENINGSHOEK BIJ DEURBLADMONTAGE AAN NIET- SCHARNIERZIJDE
ANGLE D'OUVERTURE LIMITÉE AVEC MONTAGE DU FERME-PORTE CÔTÉ OPPOSÉ AUX PAUMELLES
LIMITED OPENING ANGLE WITH MOUNTING ON DOOR LEAF ON THE NON- HINGE SIDE
OEFFNUNGSWINKEL BEGRENZT MIT TUERBLATTMONTAGE AN BANDGEGENSEITE

F

ES 45Pa

NIET SCHARNIERZIJDE : BESLISSINGSMATRIX
CONTRE COTE DE CHARNIERES : MATRICE DE DECISION
NON HINGE SIDE : DECISION MATRIX
GEGEN BANDSEITE : ENTSCHEIDUNGSMATRIX

Adjustment							
Door Closers	1	2	3	4	5	6	7
TS 2000 V	YES	YES				180°	70°-150°
TS 4000 (1-6)	YES	YES		YES		180°	70°-150°
TS 3000 V	YES	YES	YES			180°	80°-130°
TS 5000	YES	YES	YES	YES		180°	80°-130°
TS 5000 L	YES	YES	YES	YES		180°	80°-130°

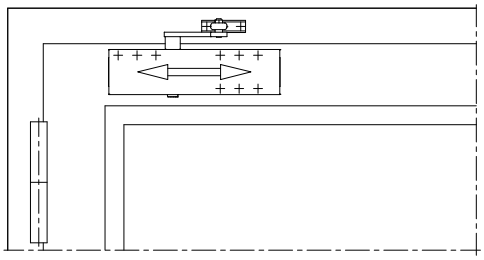


Closer Power Size	Max. FB (mm)	Max. FG (kg)
1	750	20 *
2	850	40 *
3	950	60 *
4	1100	80 *
5	1250	100 *
6	1400	120 *
7	1600	160 *

1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
3. Eindslag - Action d'une clenche - Latching action - Endschlag
4. Openingsdemping - Antisiphon - Back check - Öffnungsdämpfung
5. Sluitvertraging - Action de fermeture retardée - Delayed closing action - Schliessverzögerung
6. Openingshoek - Angle d'ouverture - Opening angle - Öffnungswinkel
7. Vastzethoek - Angle de fixation - Fixing angle - Befestigungswinkel

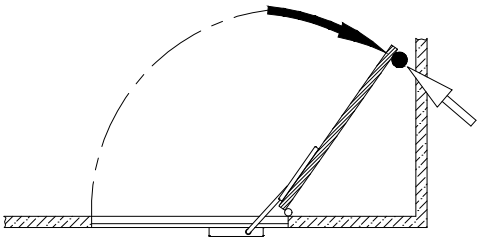
*) REFERENTIEGEWICHTEN
POIDS DE REFERENCE
REFERENCE WEIGHTS
REFERENZGEWICHTE

TS 2000	Instellen sluitkracht bij montage Réglez la force de fermeture lors de l'assemblage Set closing force when mounting Set Schließkraft bei der Montage

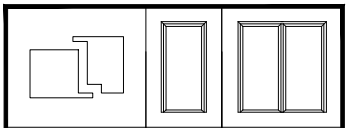


Niet scharnierzijde - Contre cote de charnieres - Non hinge side - Gegen Bandseite

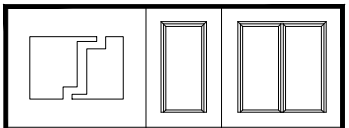
Z	Afhankelijk van de deur detail Selon détail de la porte Depending on door detail Abhängig von Tür-Detail



Openingshoek - Angle d'ouverture - Opening angle - Öffnungswinkel

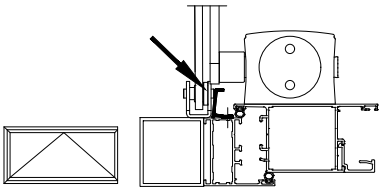


ES 45Pa	130°	127°



ES 45Pa	134°	132°

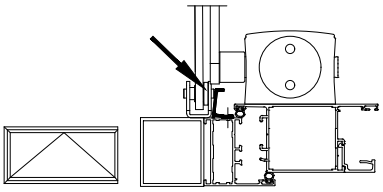
F



Door Closers		Position	ES 45Pa	Mounting Plate	FP/SP
TS 2000 V	065.7440.14		YES	065.7587.14	-
	065.7451.14			-	-
	065.7450.14			-	-
TS 2000 V	065.7440.14		YES	065.7587.14	-
	065.7451.14			-	-
	065.7450.14			-	-

Door Closers		Position	ES 45Pa	Mounting Plate
TS 2000 V	065.7440.14		YES only with 010.0136.XX / 010.0813.XX 010.0113.XX 010.0114.XX	065.7587.14
	065.7451.14			-
	065.7450.14			-
TS 2000 V	065.7440.14		YES only with 010.0120.XX 010.0114.XX (direct mounting also possible with 010.0136.XX)	065.7587.14
	065.7451.14			-
	065.7450.14			-

F



Door Closers		Position	ES 45Pa	Mounting Plate	FP/SP
TS 4000 V	065.7441.14		YES	065.7582.14	-
	065.7451.14			-	-
	065.7450.14			-	-
TS 4000 V	065.7441.14		YES	065.7582.14	-
	065.7451.14			-	-
	065.7450.14			-	-

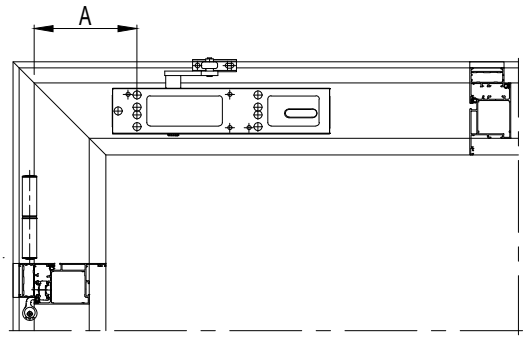
Door Closers		Position	ES 45Pa	Mounting Plate
TS 4000 V	065.7441.14		YES only with 010.0136.XX / 010.0813.XX 010.0113.XX 010.0114.XX	065.7582.14
	065.7451.14			-
	065.7450.14			-
TS 4000 V	065.7441.14		YES only with 010.0120.XX 010.0114.XX (direct mounting also possible with 010.0136.XX)	065.7582.14
	065.7451.14			-
	065.7450.14			-

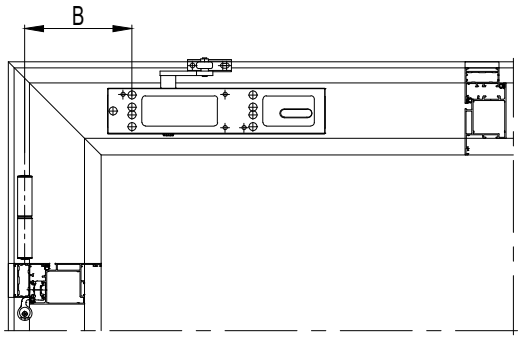
F

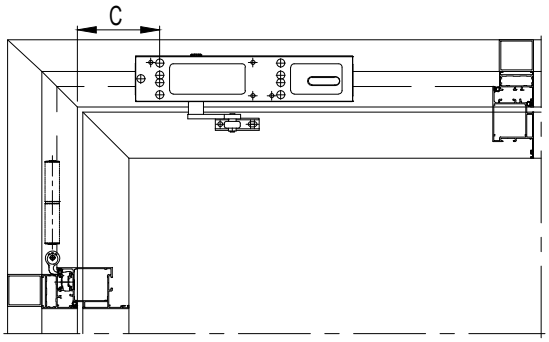
TS 2000 / TS 4000 : AFSTAND SCHARNIERAS
TS 2000 / TS 4000 : DISTANCE AXE PAUMELLE
TS 2000 / TS 4000 : DISTANCE HINGE PIN
TS 2000 / TS 4000 : ABSTAND ECKLAGERBOLZE

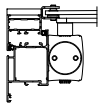
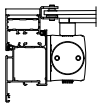
ES 45Pa

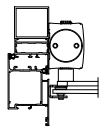
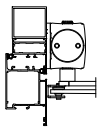
TS 2000 / TS 4000 : AFSTAND SCHARNIERAS
TS 2000 / TS 4000 : DISTANCE AXE PAUMELLE
TS 2000 / TS 4000 : DISTANCE HINGE PIN
TS 2000 / TS 4000 : ABSTAND ECKLAGERBOLZE



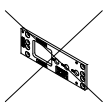


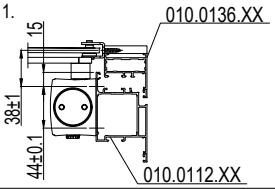


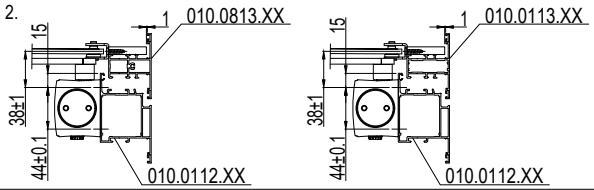
		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-5
065.6511.XX		A=B-6
065.8460.XX / 065.8475.XX		A=B-9

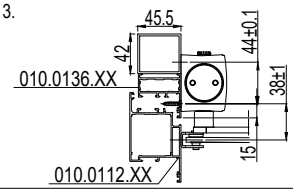
		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-34-5 / C=B-27-5
065.6511.XX		A=B-34-6 / C=B-27-6
065.8460.XX / 065.8475.XX		A=B-34-9 / C=B-27-9

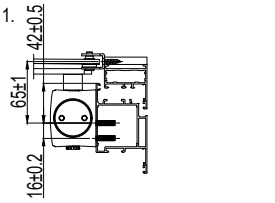
1. M08.5008.XX (cut 5mm length off) of - ou - or - oder M08.5015.XX (cut 5mm length off)
2. M08.4008.XX of - ou - or - oder M08.5008.XX (cut 9mm length off) of - ou - or - oder M08.5015.XX (cut 9mm length off)
3. A4.5422.XX

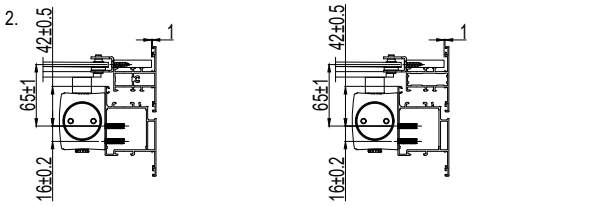












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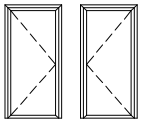
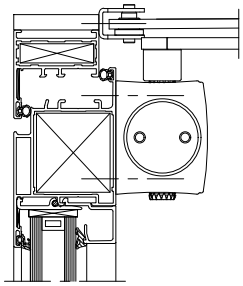
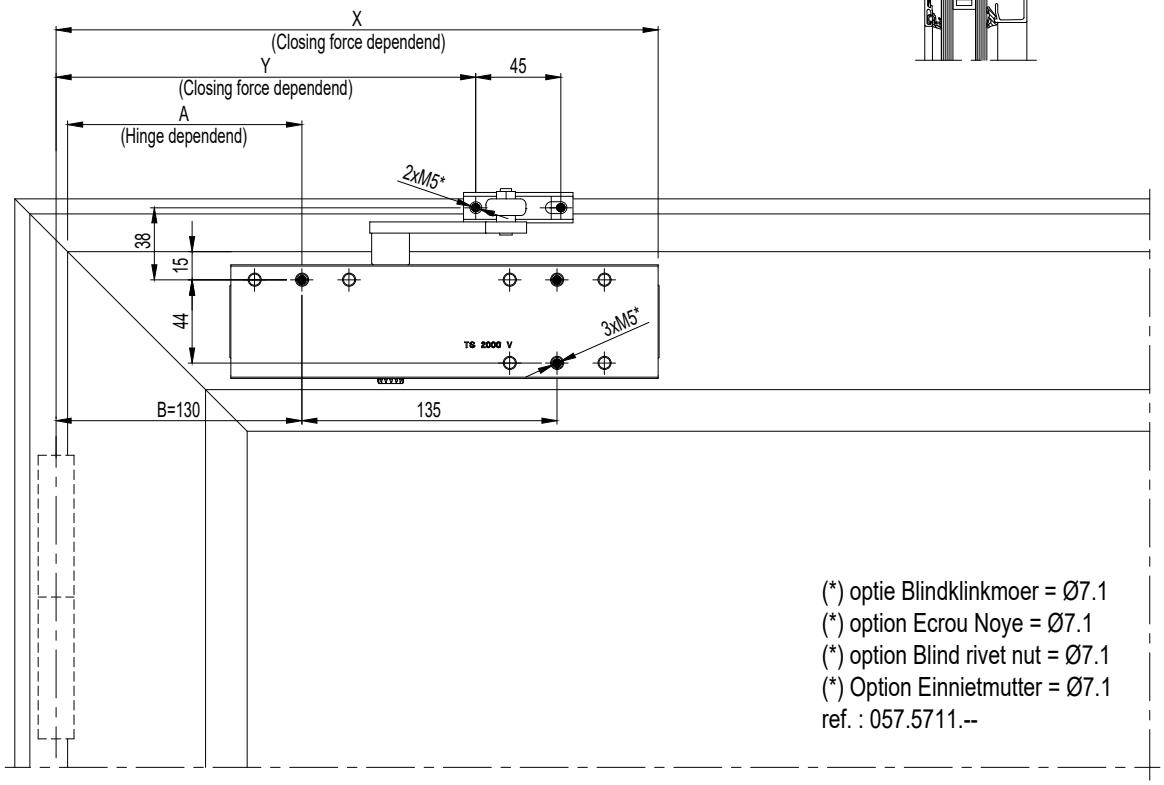


	057.5711.--	6x
	050.5082.--	3x

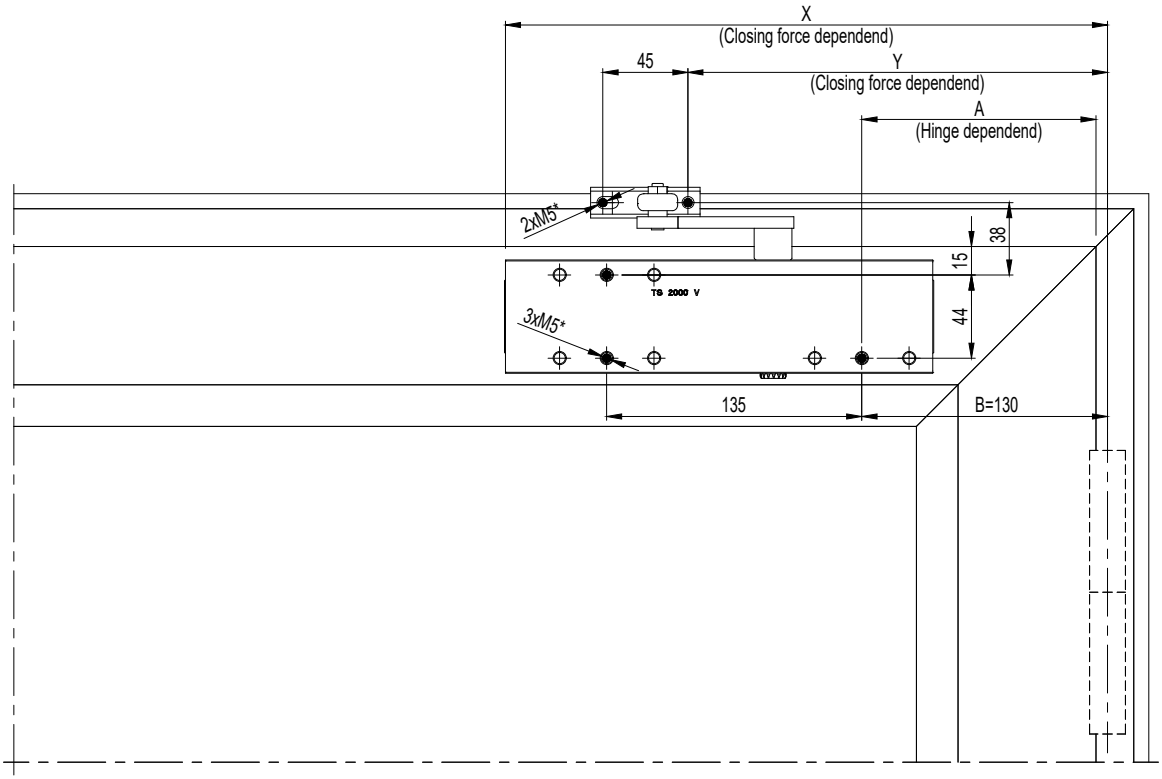
BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER

Force	X	Y
2	294	197
4	319	222
5	344	247





(*) optie Blindklinkmoer = Ø7.1
(*) option Ecrou Noye = Ø7.1
(*) option Blind rivet nut = Ø7.1
(*) Option Einnietmutter = Ø7.1
ref. : 057.5711.--



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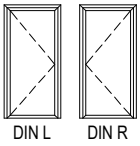

	057.5711.--	6x
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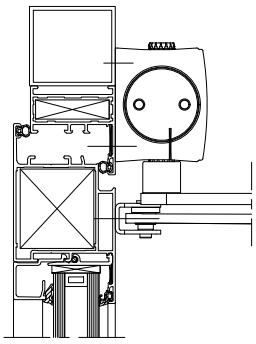

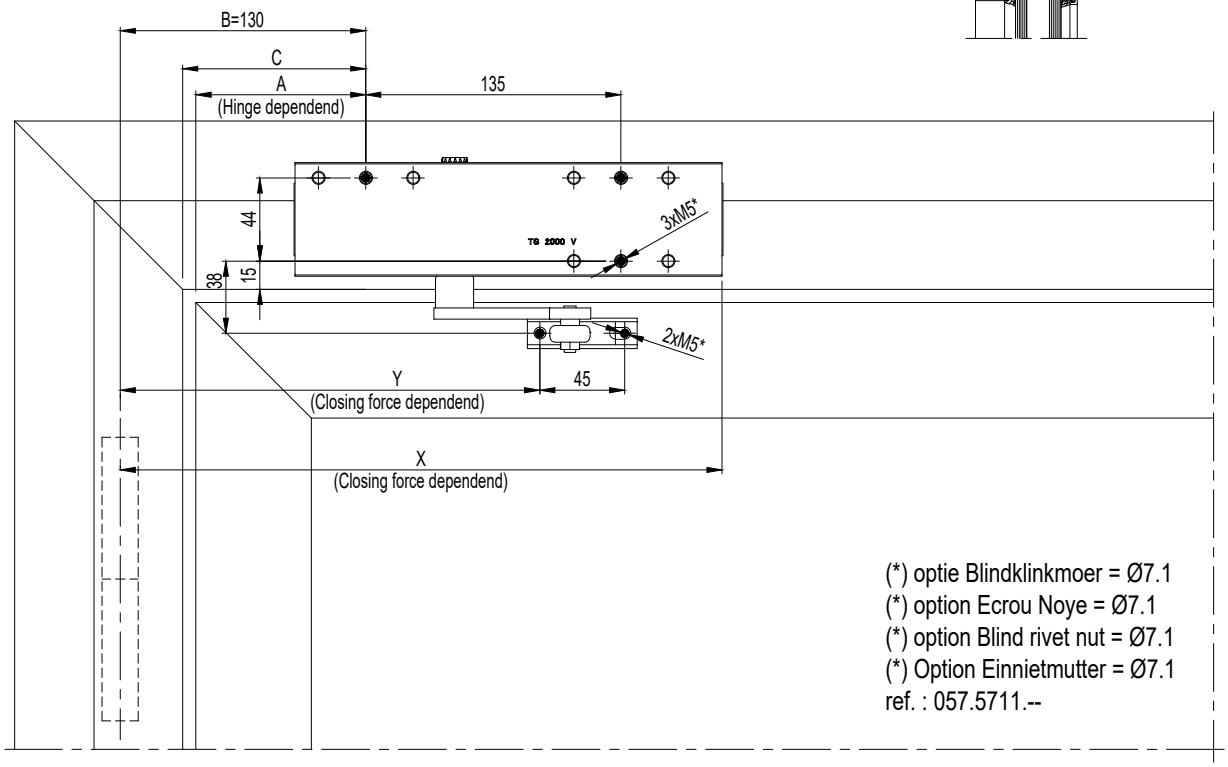

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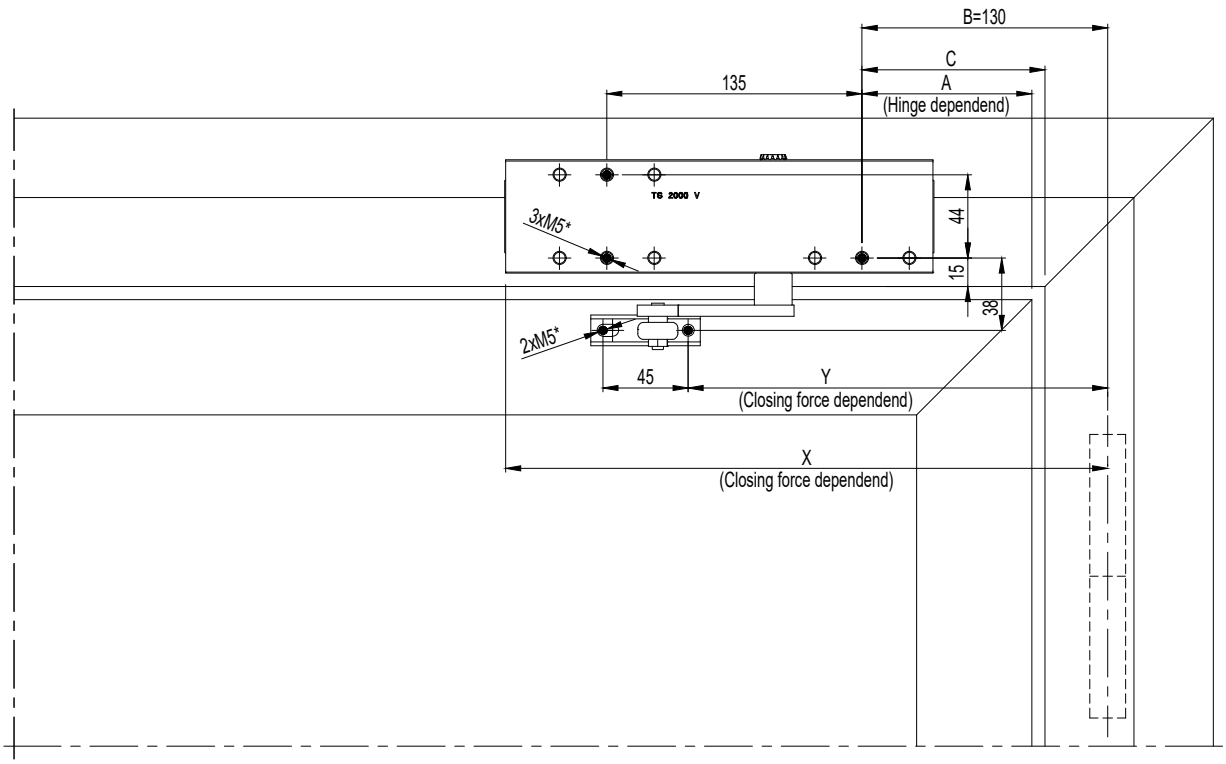

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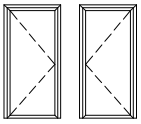

	057.5711.--	6x
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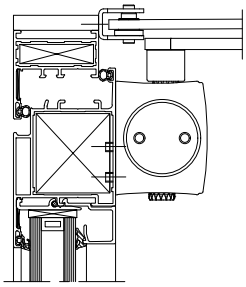

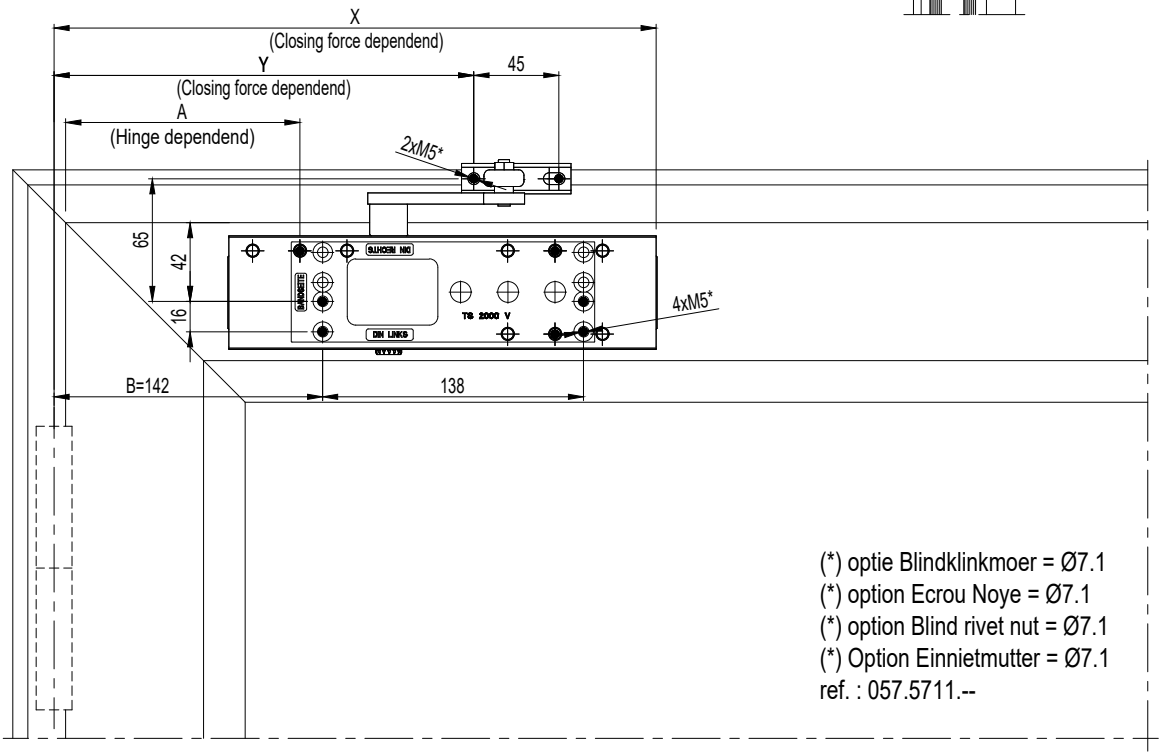

(*) optie Blindklinkmoer = Ø7.1
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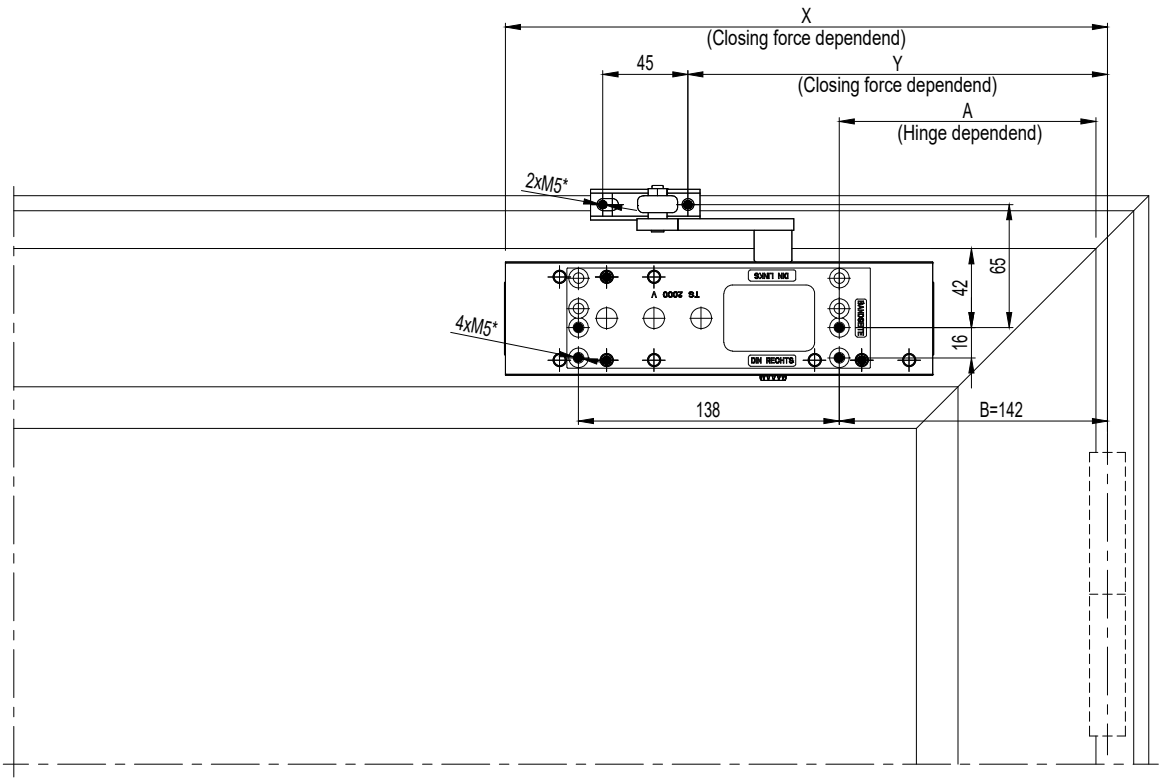

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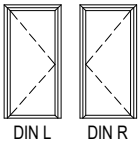

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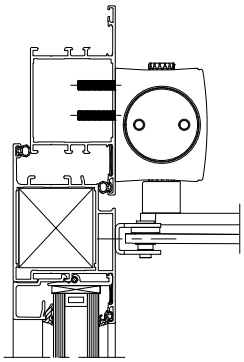

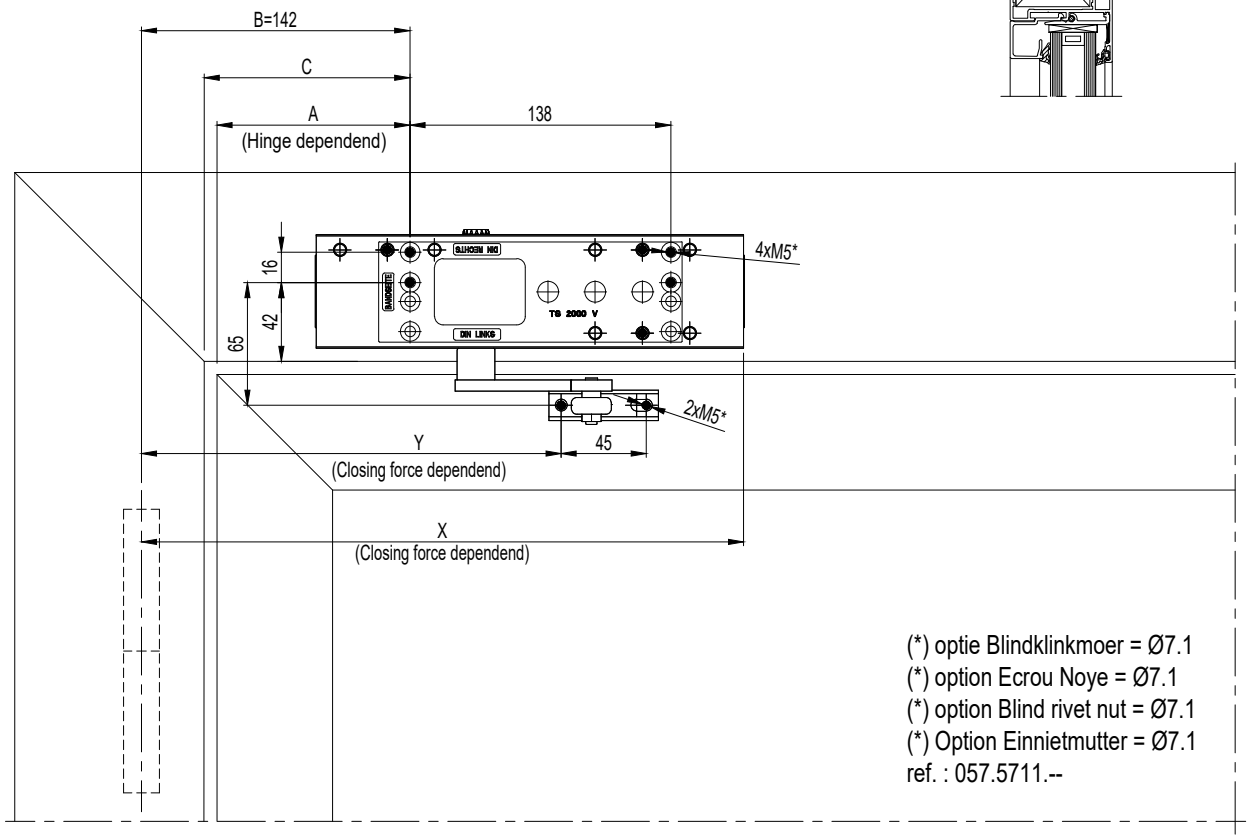

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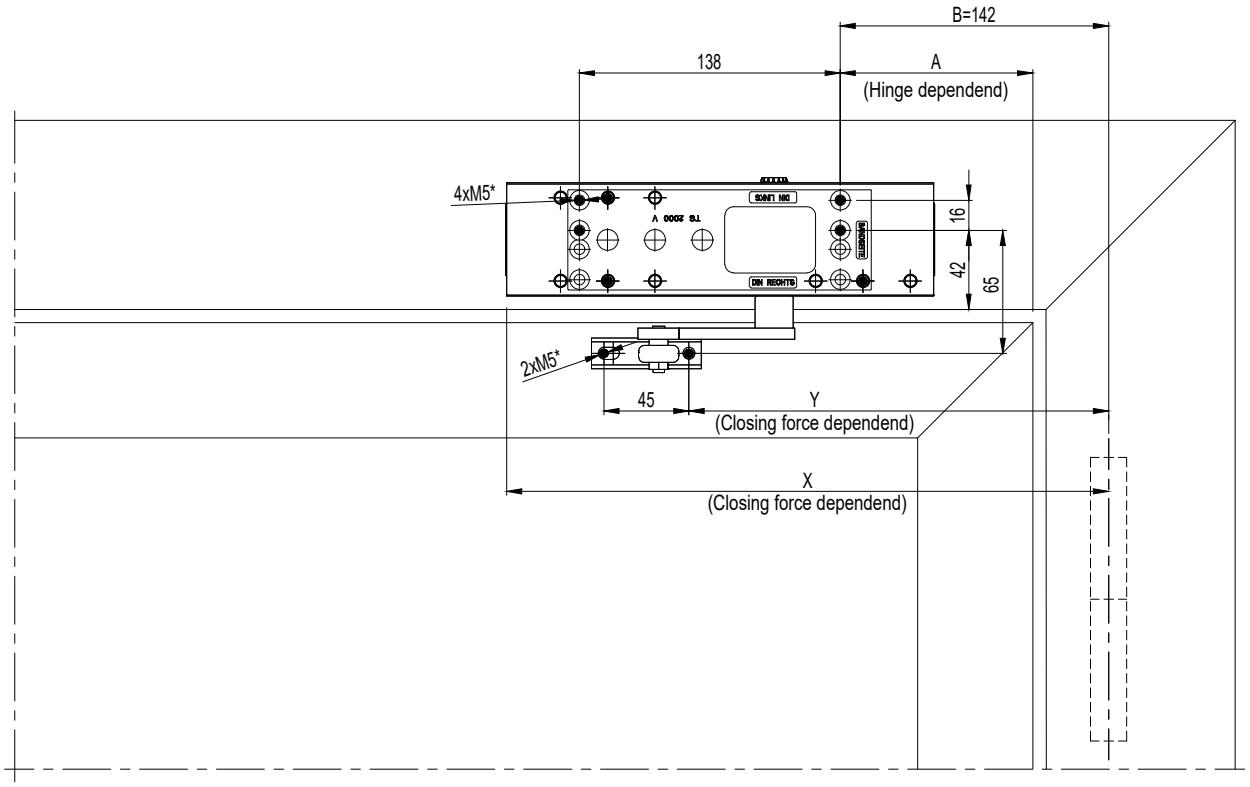
(*) option Blind rivet nut = Ø7.1
(*) Option Einnietmutter = Ø7.1
ref. : 057.5711.--



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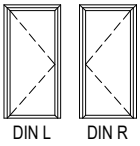
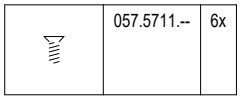
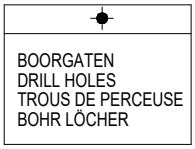
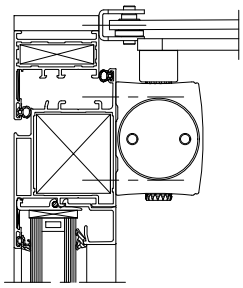
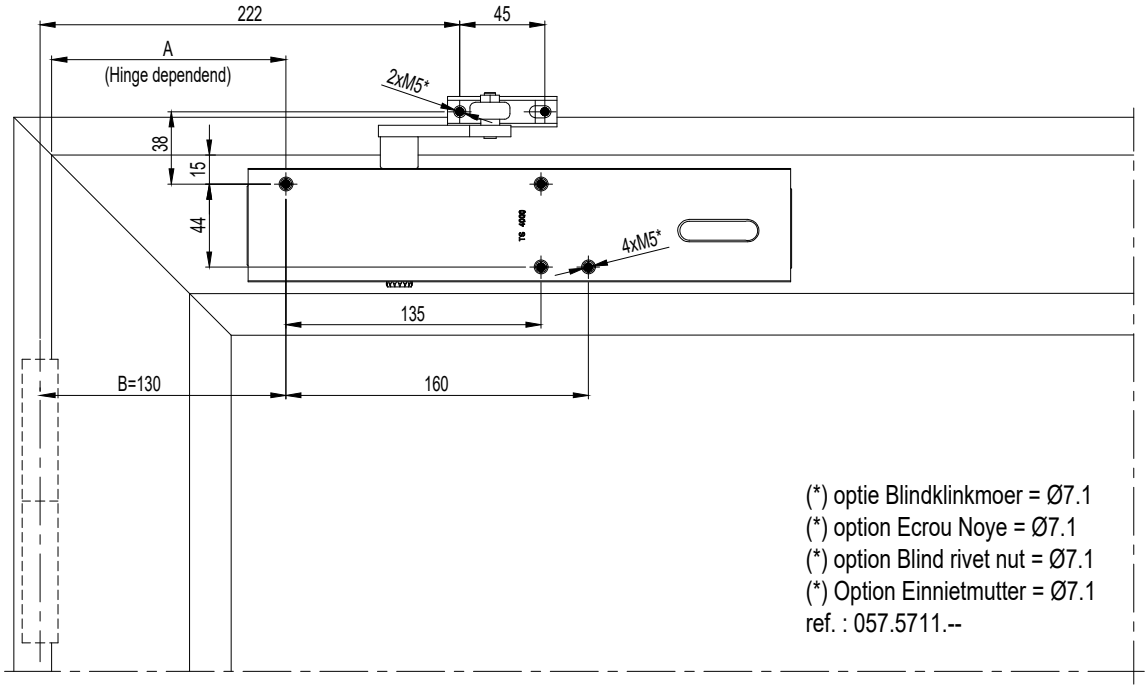


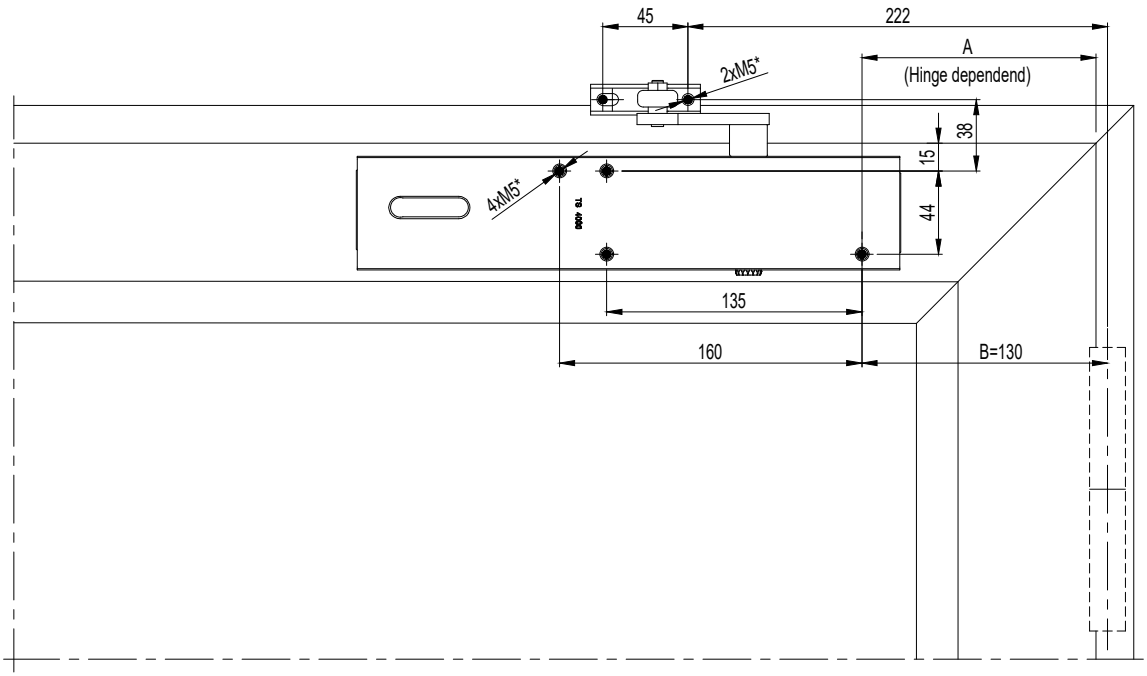








(*) optie Blindklinkmoer = Ø7.1
(*) option Ecrou Noye = Ø7.1
(*) option Blind rivet nut = Ø7.1
(*) Option Einnietmutter = Ø7.1
ref. : 057.5711.--



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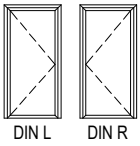
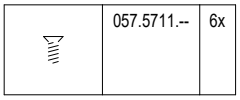
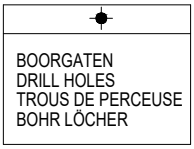
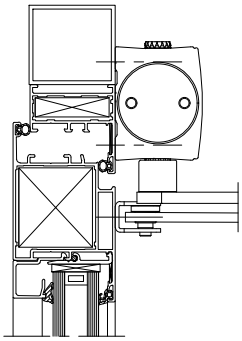
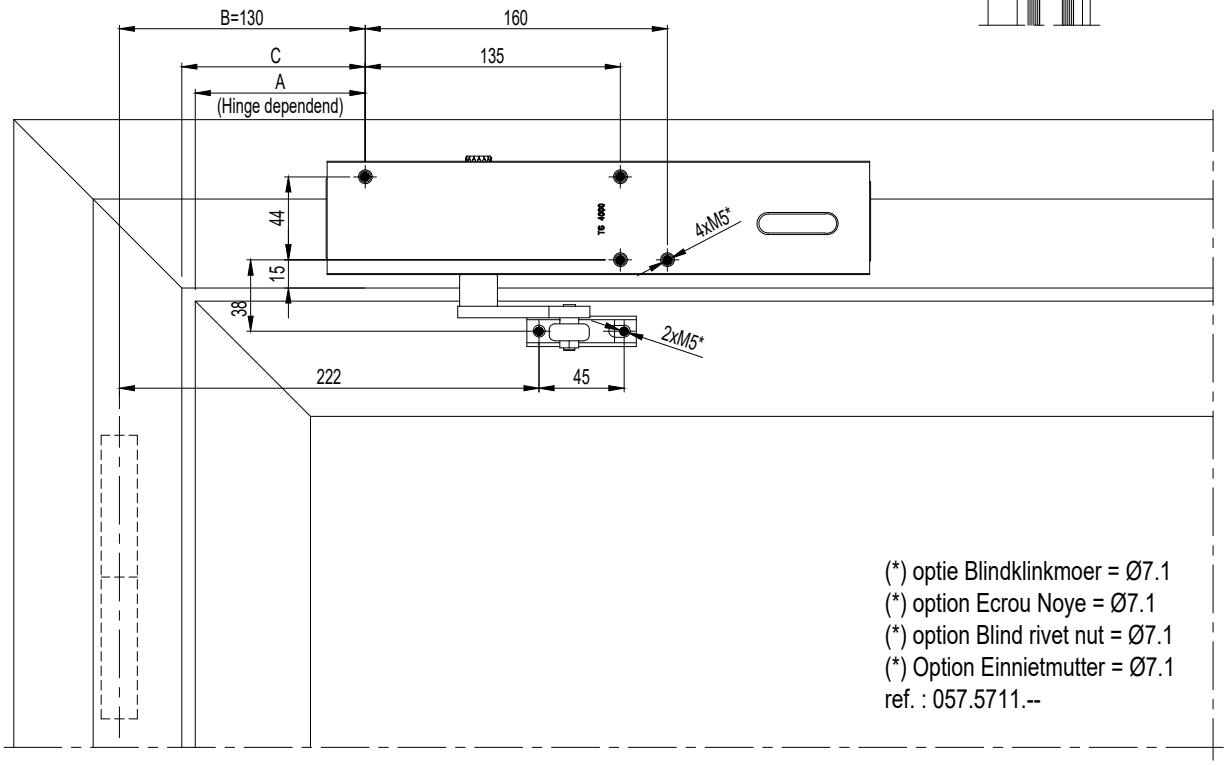
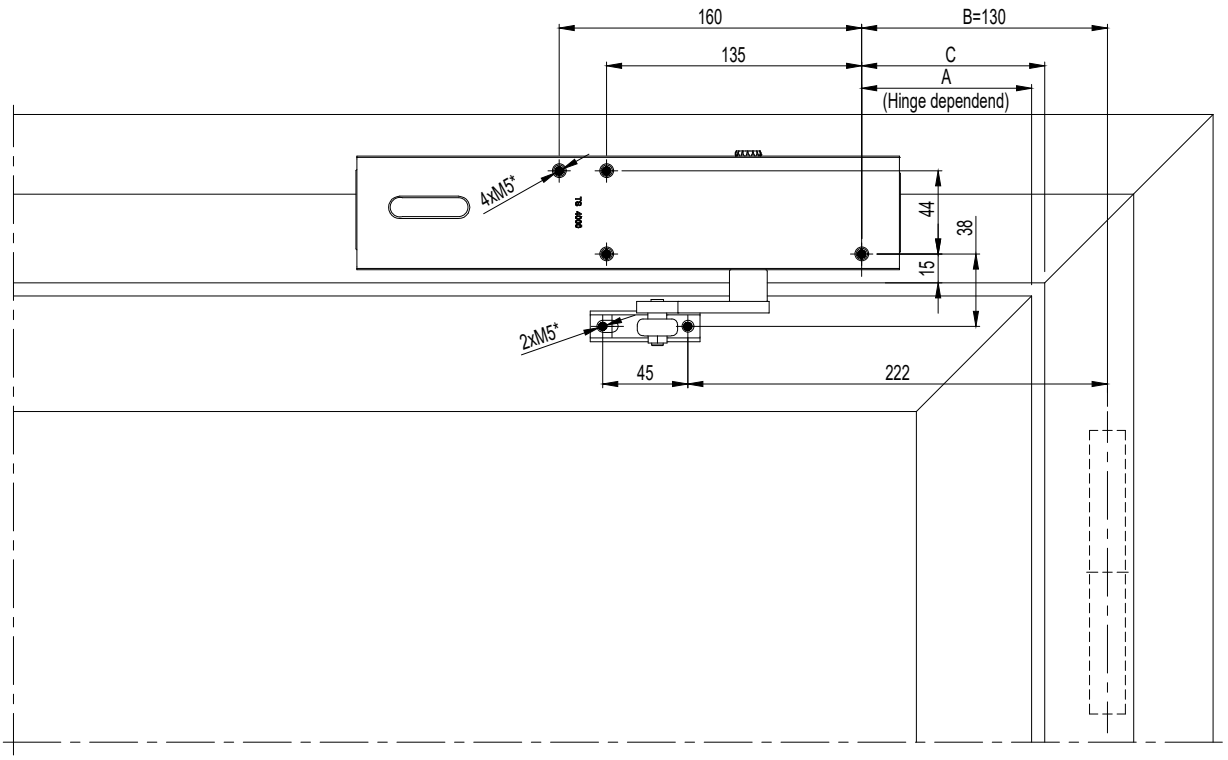

DIN L
DIN R


057.5711.--
6x

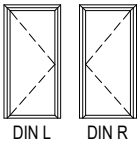

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER




B=130
160
C
135
A
(Hinge dependend)
44
15
38
4xM5*
2xM5*
222
45
(*) optie Blindklinkmoer = Ø7.1
(*) option Ecrou Noye = Ø7.1
(*) option Blind rivet nut = Ø7.1
(*) Option Einnietmutter = Ø7.1
ref. : 057.5711.--

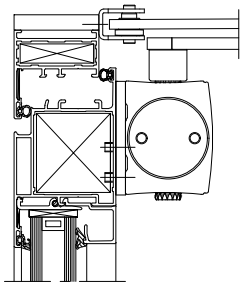

160
B=130
135
C
A
(Hinge dependend)
4xM5*
44
38
15
2xM5*
45
222

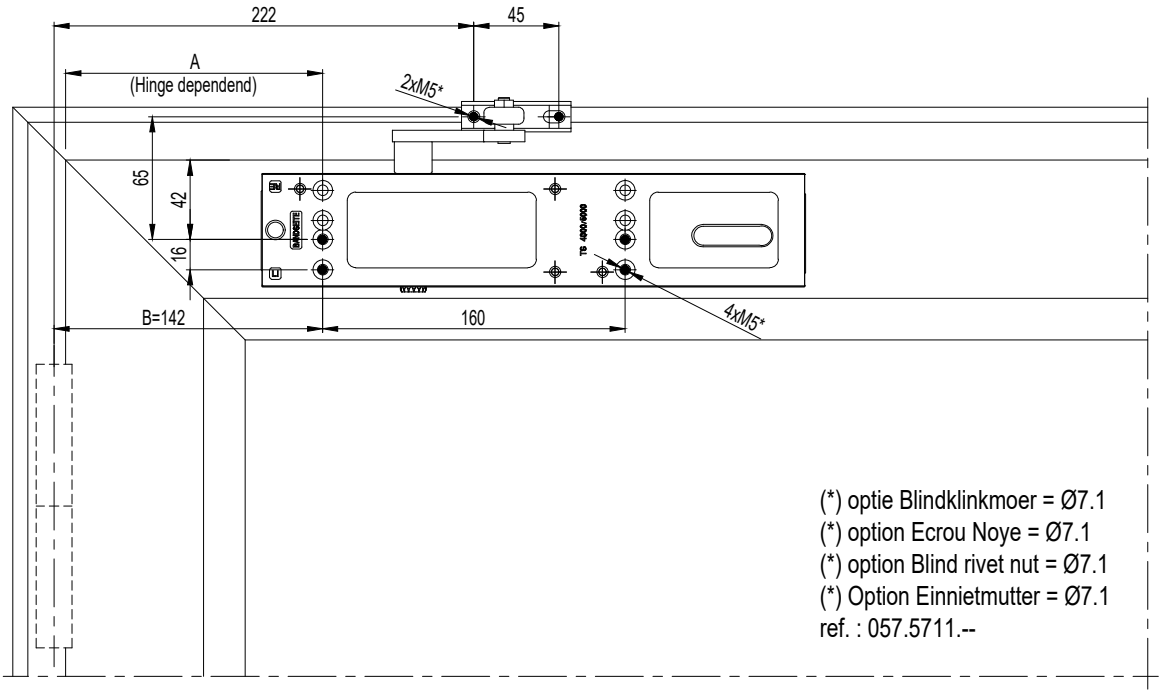
F



	057.5711.--	6x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER





(*) optie Blindklinkmoer = Ø7.1
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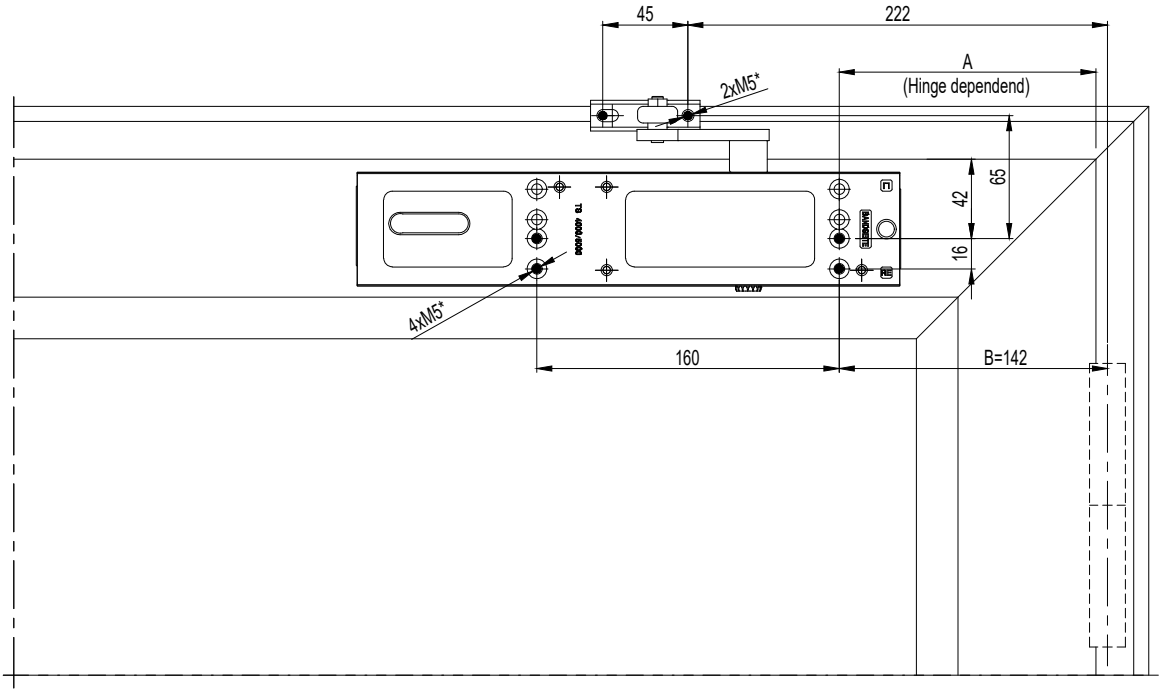
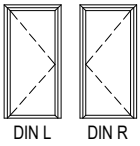
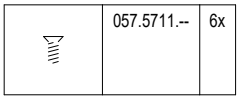
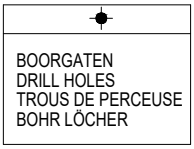
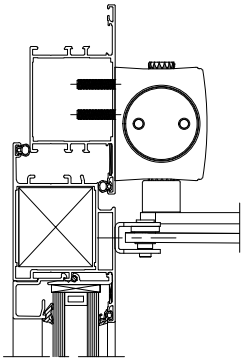
ref. : 057.5711.--

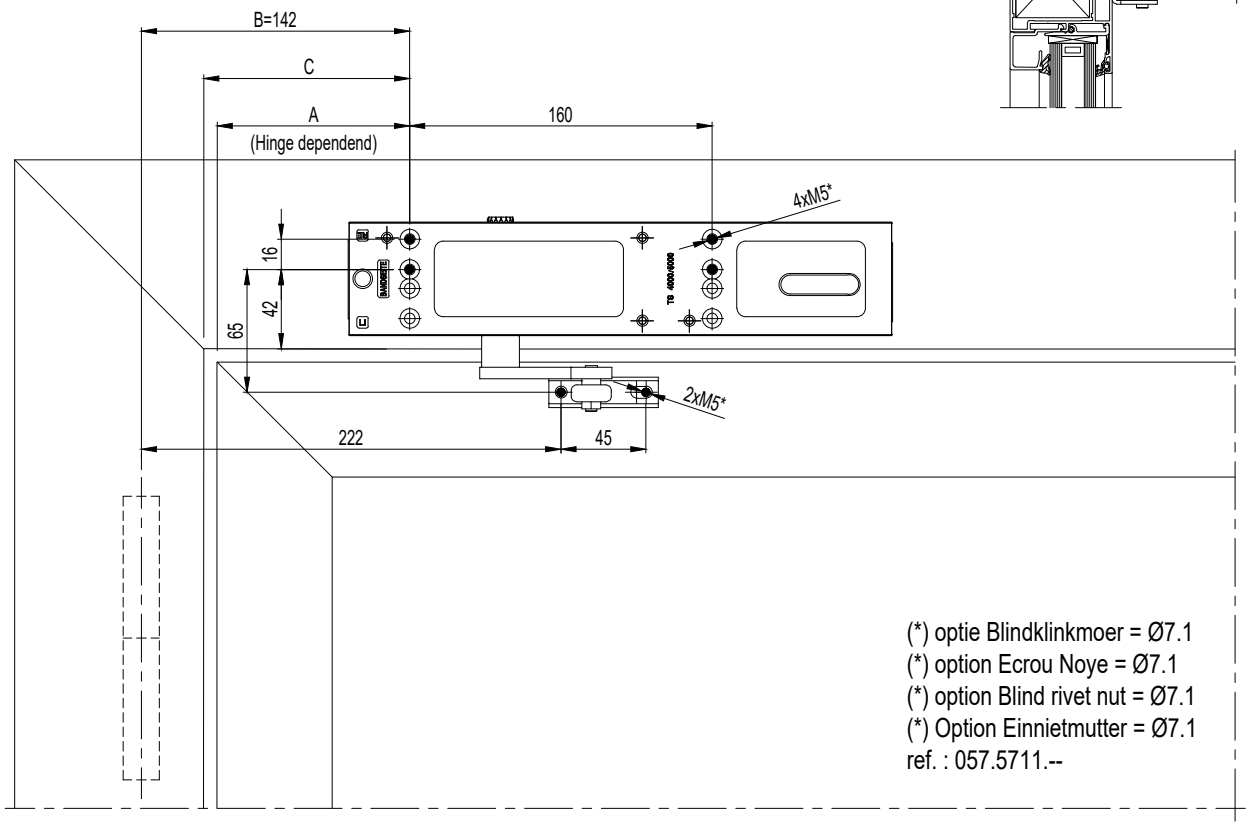












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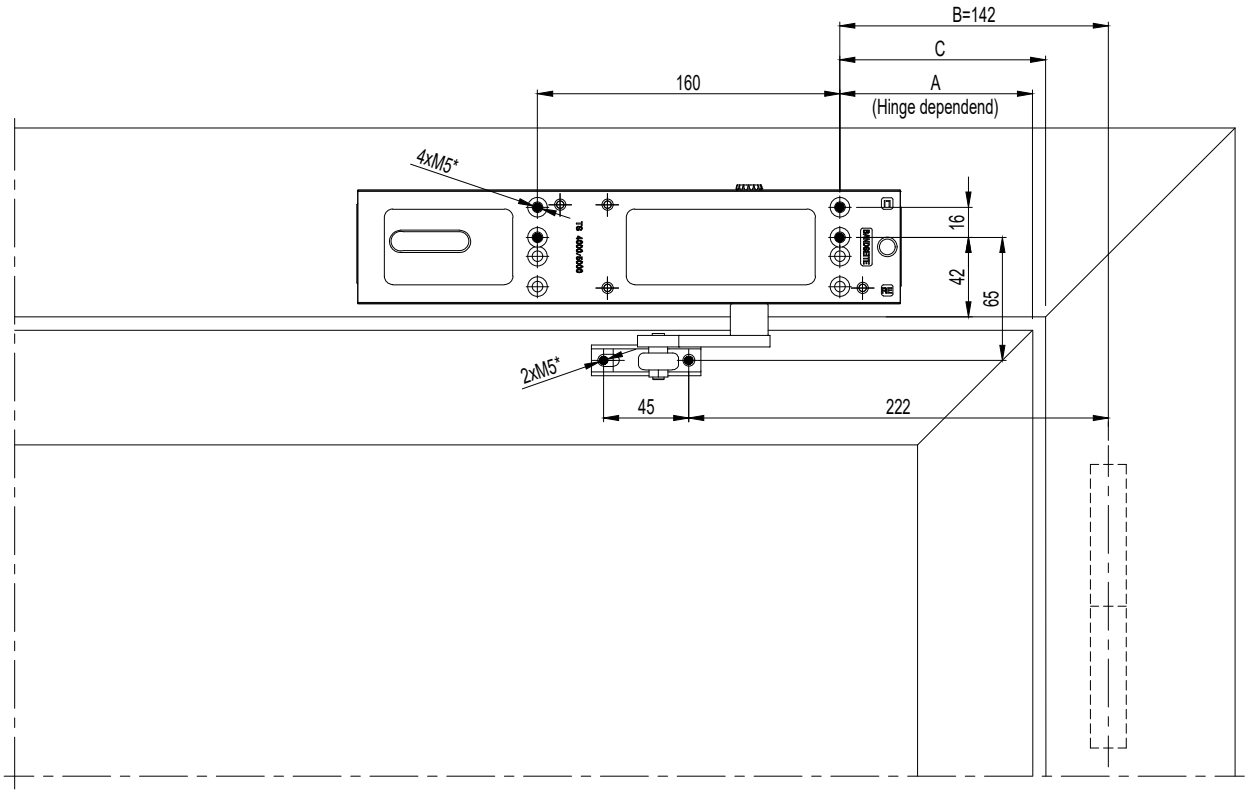


F

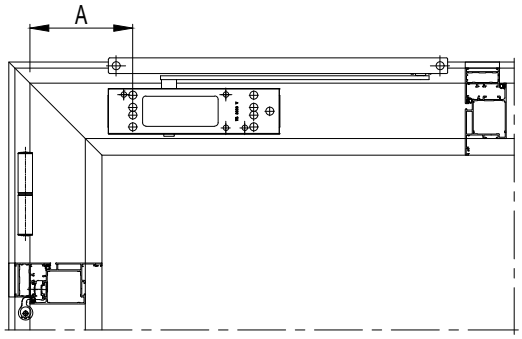
OPGEPAST MET LEKLIJST
ATTENTION RESET D'EAU
WARNING WITH DRIP CAP
WARNUNG MIT WETTERSCHENKEL

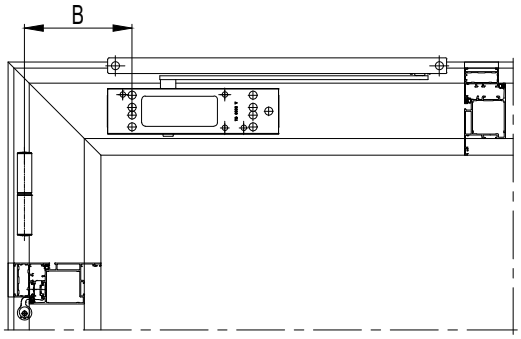
	Door Closers	Position	ES 45Pa	Mounting Plate
TS 3000 V	065.7442.14		YES only with 010.0136.XX 010.0813.XX 010.0113.XX 010.0114.XX	065.7588.14
	065.7452.14			-
TS 3000 VL	065.7442.14		YES only with 010.0136.XX 010.0813.XX 010.0113.XX (direct mounting also possible with 010.0114.XX) (mounting plate also possible with 010.0120.XX)	065.7588.14
	065.7453.14			-
TS 3000 VL	065.7442.14		NO	-
	065.7453.14			-
TS 3000 V	065.7442.14		YES only with 010.0120.XX 010.0114.XX (direct mounting also possible with 010.0136.XX)	065.7588.14
	065.7452.14			-

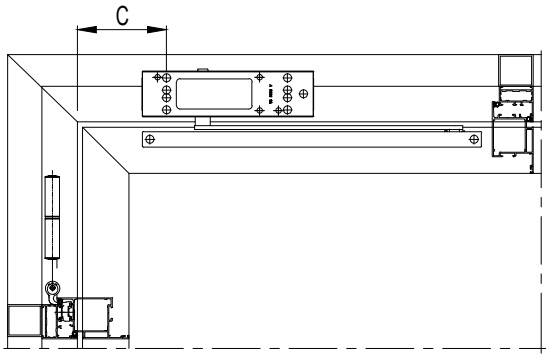
	Door Closers	Position	ES 45Pa	Mounting Plate	FP/SP
TS 3000 V	065.7442.14		YES	065.7588.14	-
	065.7452.14			-	-
TS 3000 VL	065.7442.14		YES	065.7588.14	-
	065.7453.14			-	-
TS 3000 VL	065.7442.14		NO	-	-
	065.7453.14			-	-
TS 3000 V	065.7442.14		YES	065.7588.14	-
	065.7452.14			-	-

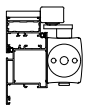
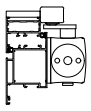
*) KIES JUISTE KADER OF WERKEN MET KOPPELPROFIEL
CHOISIR UN CADRE APPROPRIE OU TRAVAILLER AVEC PROFILE DE RACCORDEMENT
CHOOSE CORRECT FRAME OR WORK WITH CONNECTION PROFILE
WÄHLEN GEEIGNETE RAHMEN ODER ARBEITEN MIT KOPPLUNGSPROFIL

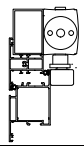
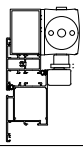
F

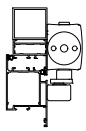
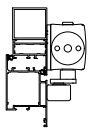


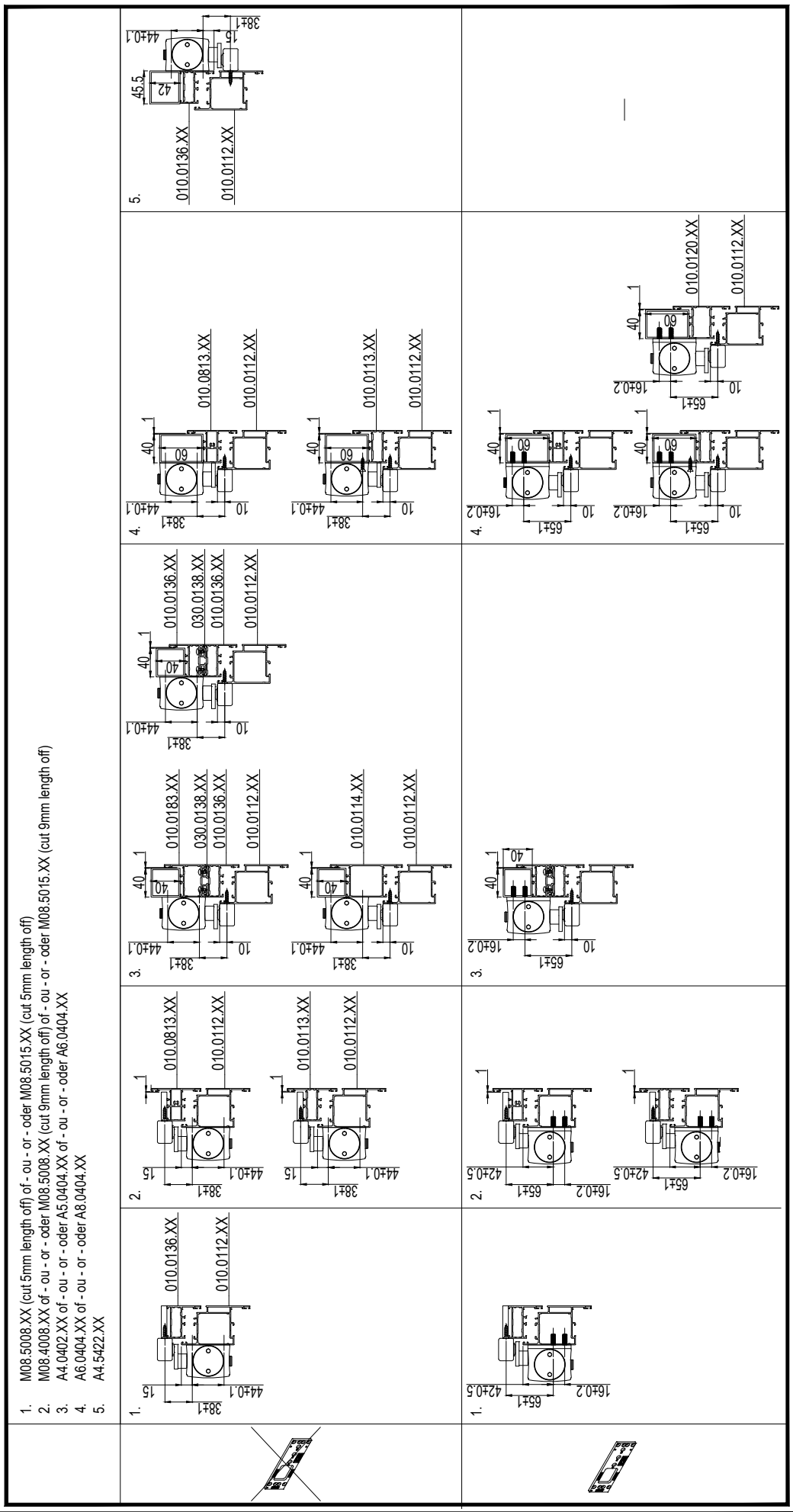


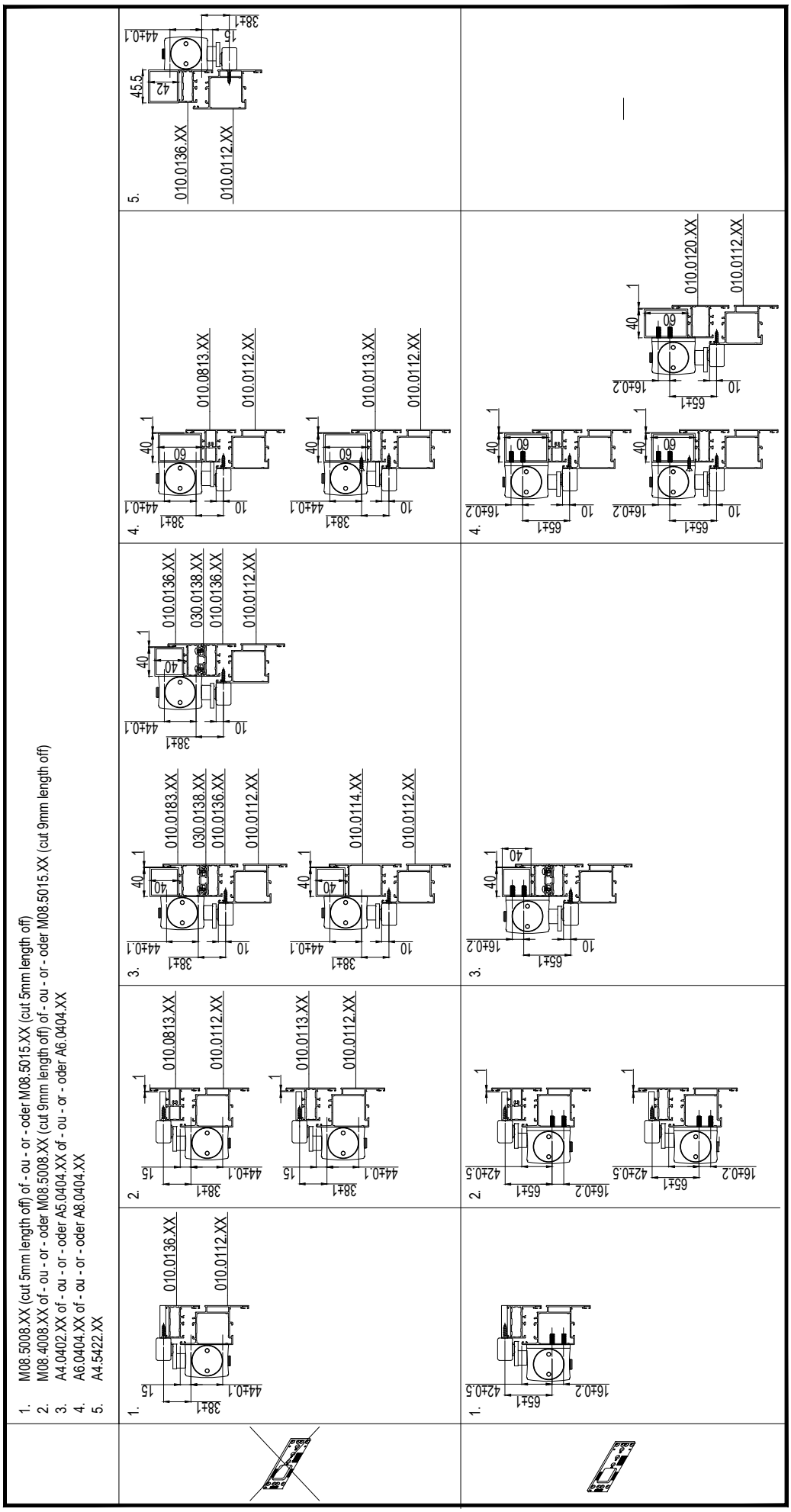


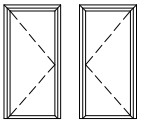
		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-5
065.6511.XX		A=B-6
065.8460.XX / 065.8475.XX		A=B-9

		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-5
065.6511.XX		A=B-6
065.8460.XX / 065.8475.XX		A=B-9

		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-34-5 / C=B-27-5
065.6511.XX		A=B-34-6 / C=B-27-6
065.8460.XX / 065.8475.XX		A=B-34-9 / C=B-27-9

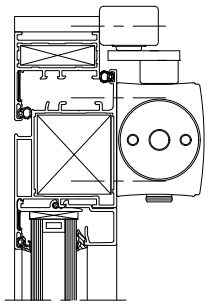

1. M08.5008.XX (cut 5mm length off) of - ou - or - oder M08.5015.XX (cut 5mm length off)
2. M08.4008.XX of - ou - or - oder M08.5008.XX (cut 9mm length off) of - ou - or - oder M08.5015.XX (cut 9mm length off)
3. A4.0402.XX of - ou - or - oder A5.0404.XX of - ou - or - oder A6.0404.XX
4. A6.0404.XX of - ou - or - oder A8.0404.XX
5. A4.5422.XX

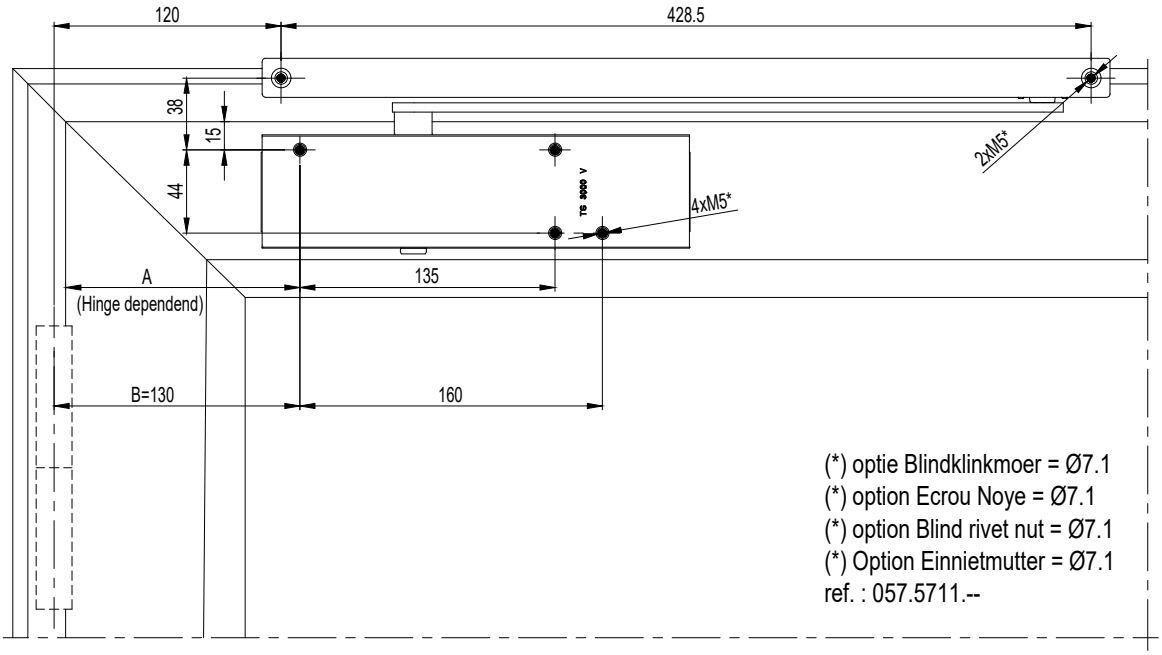

1. M08.5008.XX (cut 5mm length off) of - ou - or - oder M08.5015.XX (cut 5mm length off)
2. M08.4008.XX of - ou - or - oder M08.5008.XX (cut 9mm length off) of - ou - or - oder M08.5015.XX (cut 9mm length off)
3. A4.0402.XX of - ou - or - oder A5.0404.XX of - ou - or - oder A6.0404.XX
4. A6.0404.XX of - ou - or - oder A8.0404.XX
5. A4.5422.XX
010.0136.XX
010.0112.XX
010.0813.XX
010.0113.XX
010.0120.XX
030.0138.XX
010.0183.XX
010.0114.XX



	057.5711.--	6x
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER





(*) optie Blindklinkmoer = Ø7.1
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(*) option Blind rivet nut = Ø7.1
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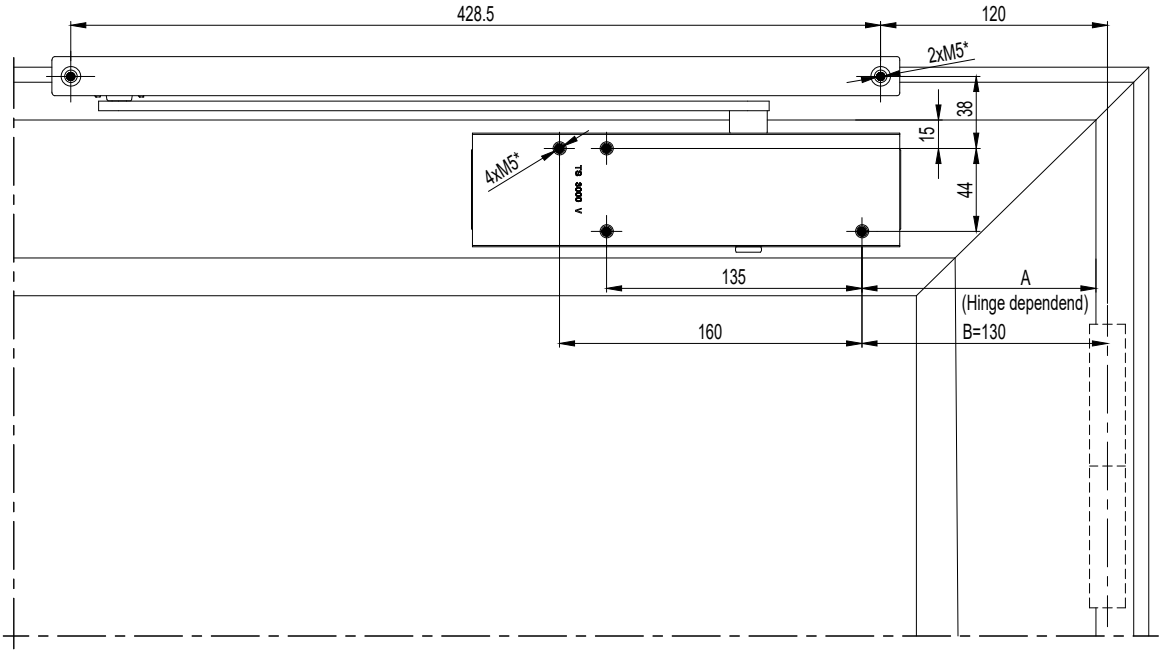
ref. : 057.5711.--



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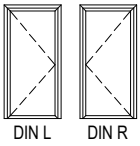

	057.5711.--	6x
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
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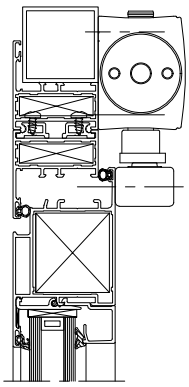
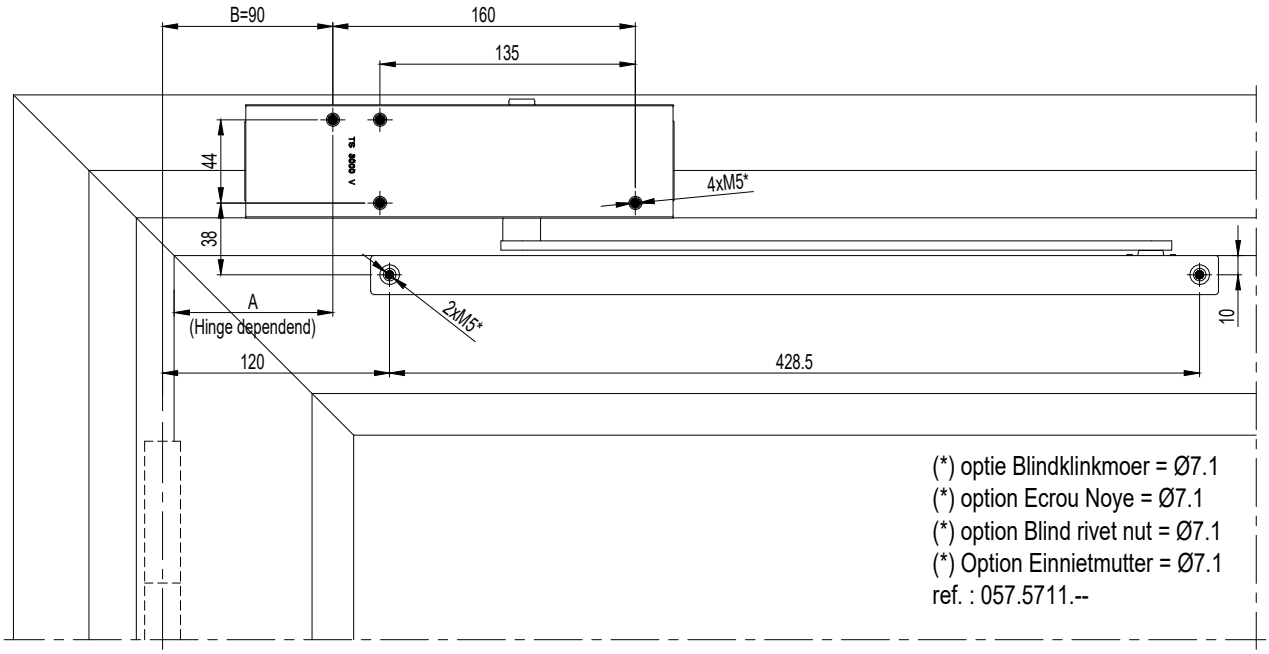


Kies correcte kaderprofiel
Choisir le correct profil de frame
Choose correct frame profile
Wähle korrekt Blendrahmen



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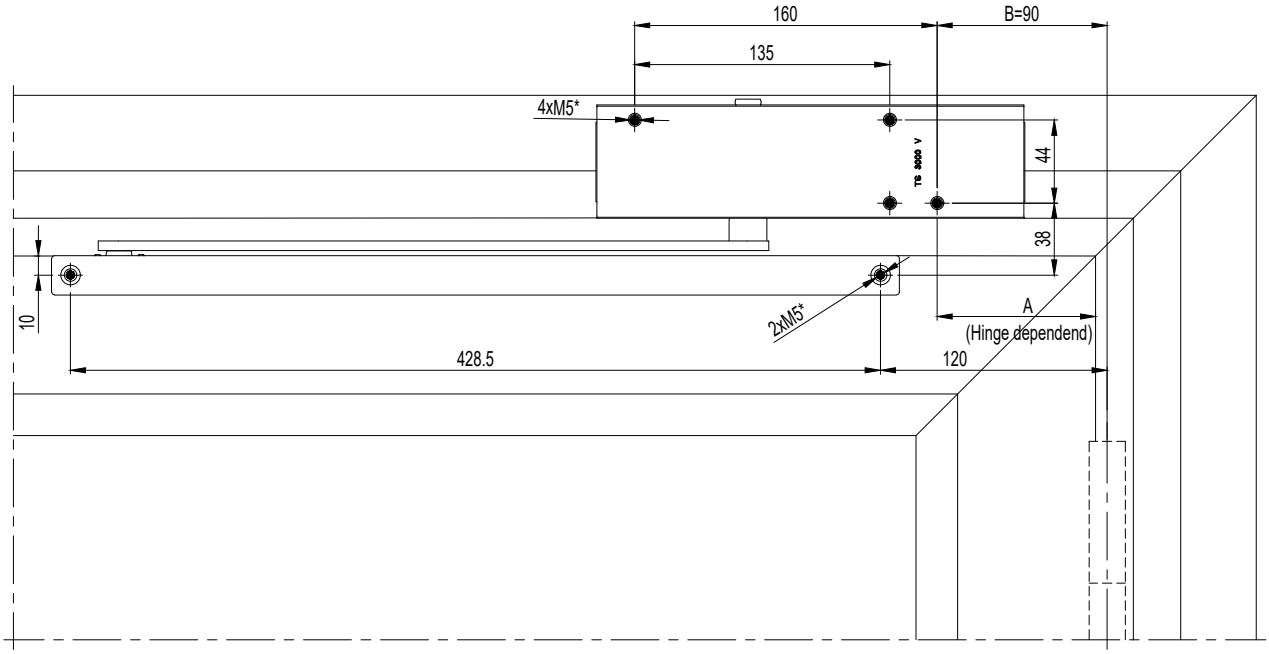

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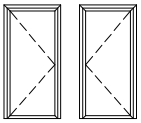

	057.5711.--	6x
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
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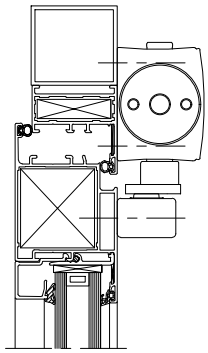

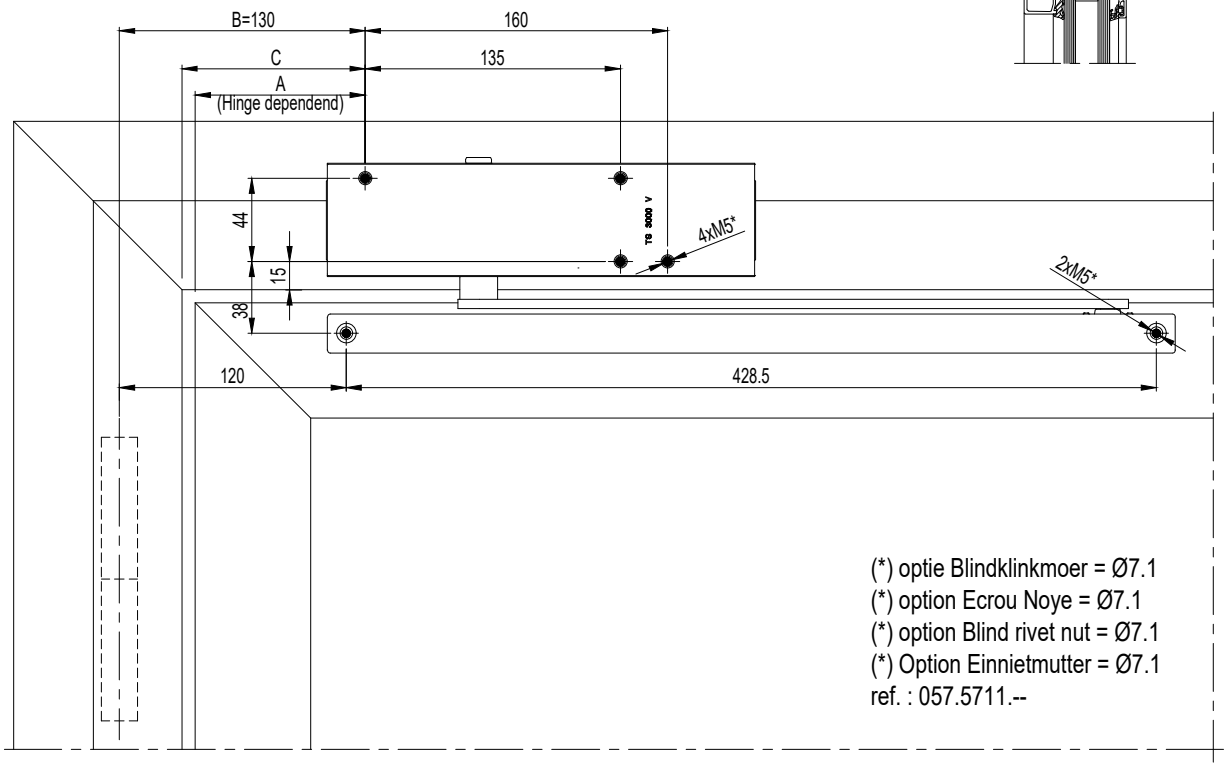

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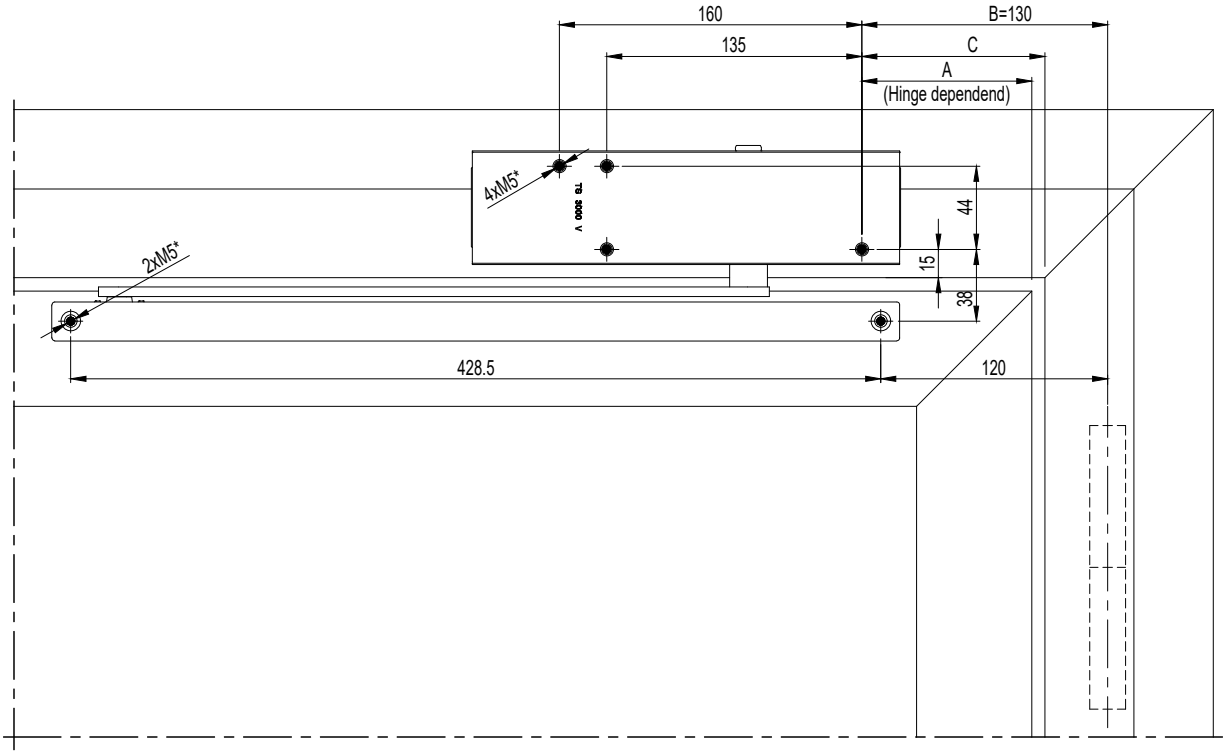

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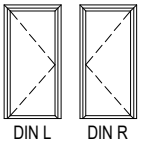
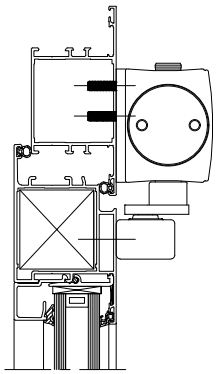
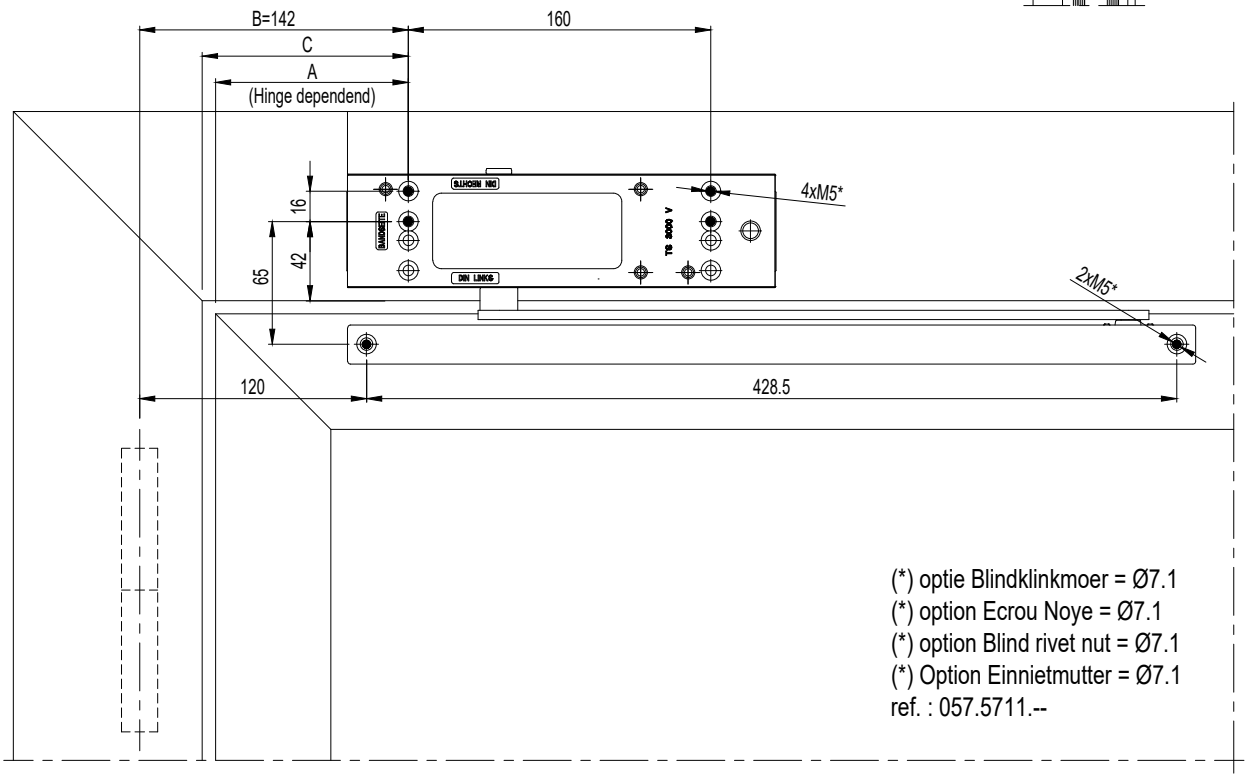


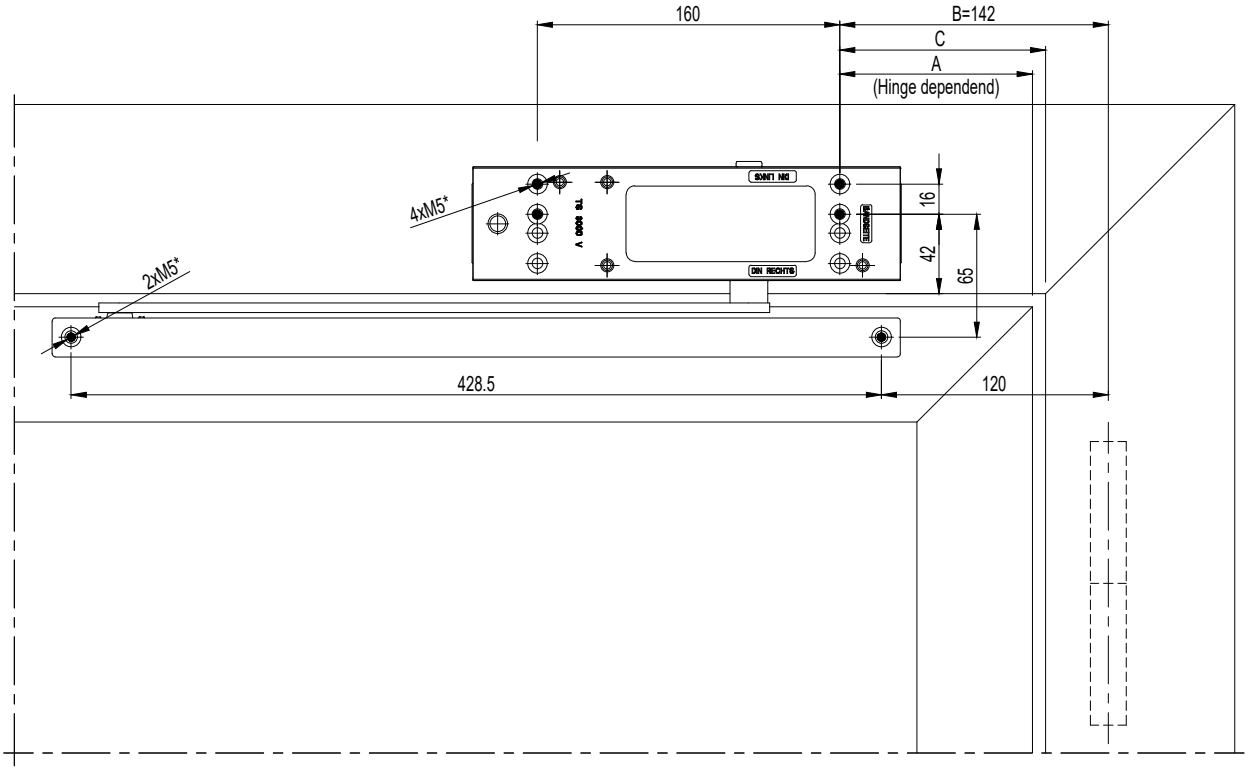
	057.5711.--	6x
	050.5081.--	2x

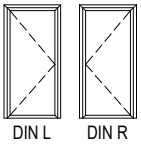
BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER





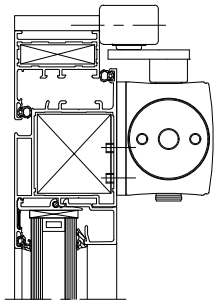
(*) optie Blindklinkmoer = Ø7.1
(*) option Ecrou Noye = Ø7.1
(*) option Blind rivet nut = Ø7.1
(*) Option Einnietmutter = Ø7.1
ref. : 057.5711.--

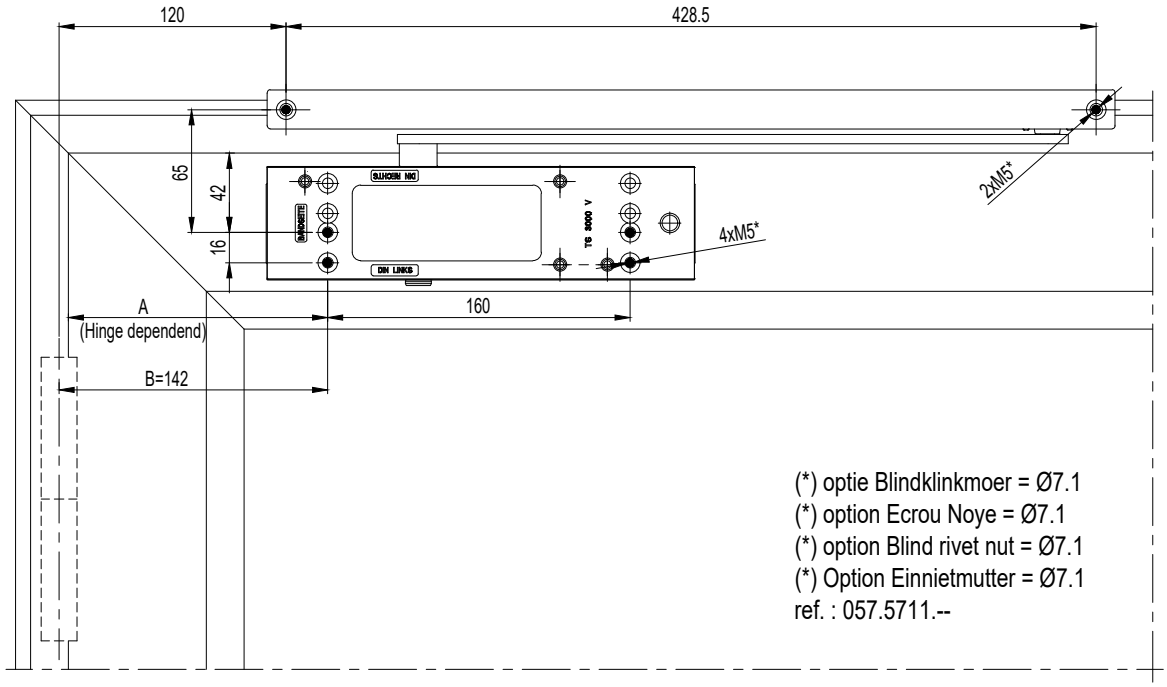




	057.5711.--	6x
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER





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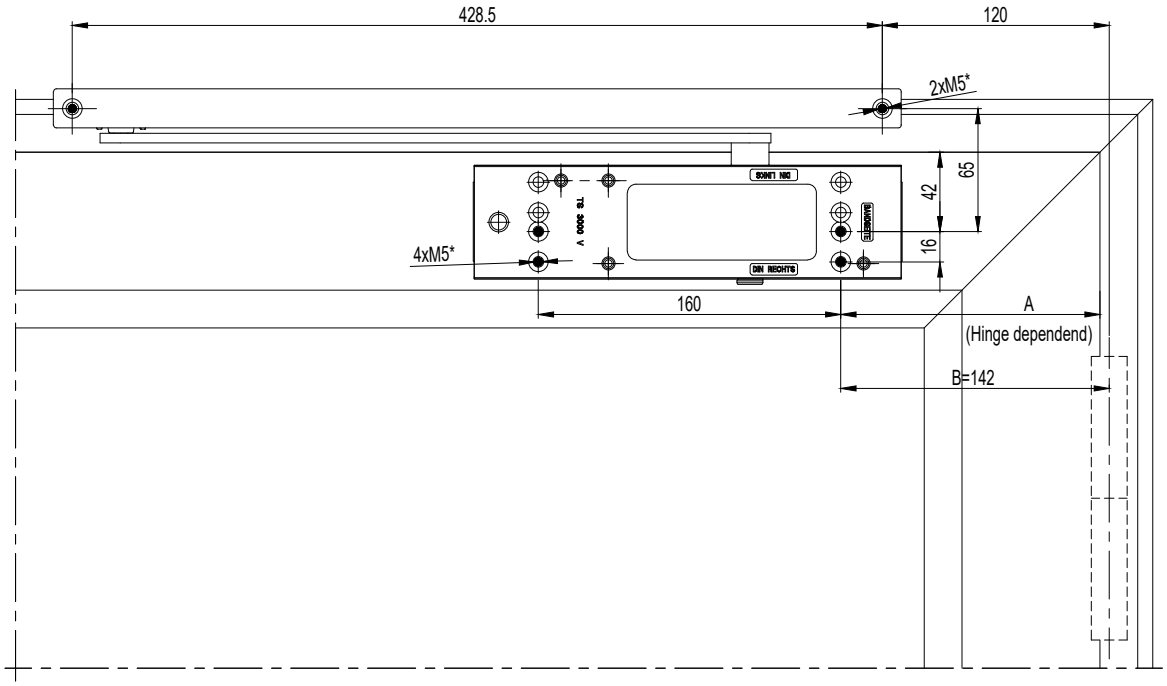

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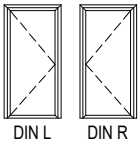
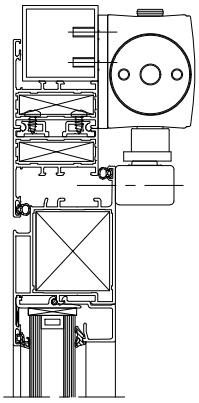
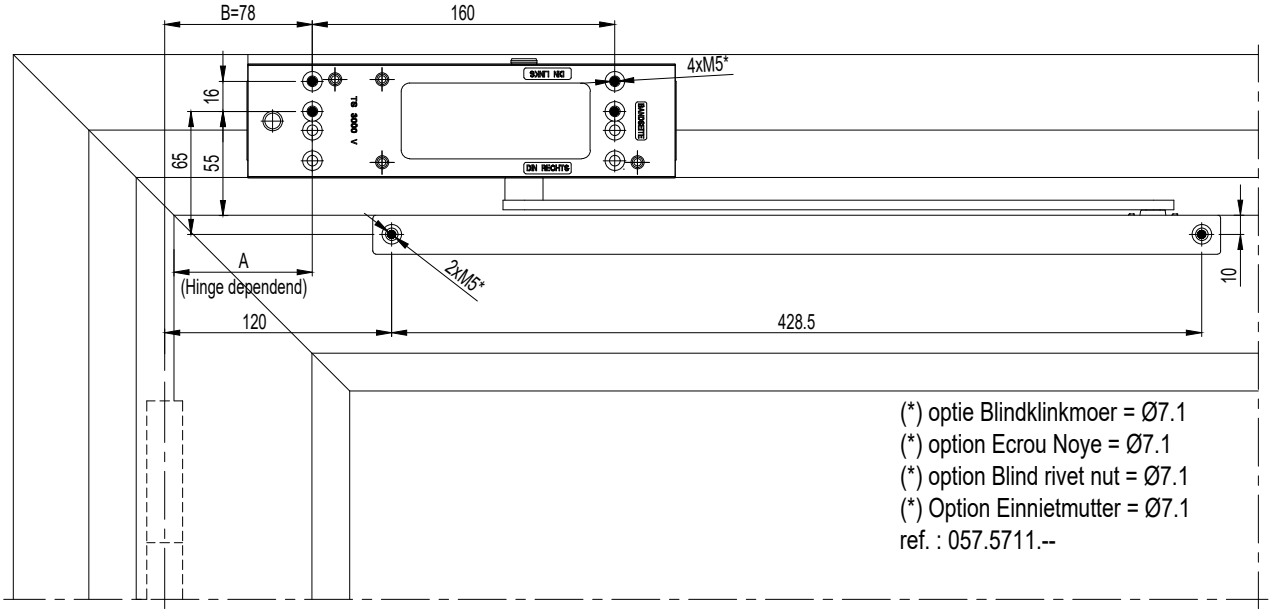


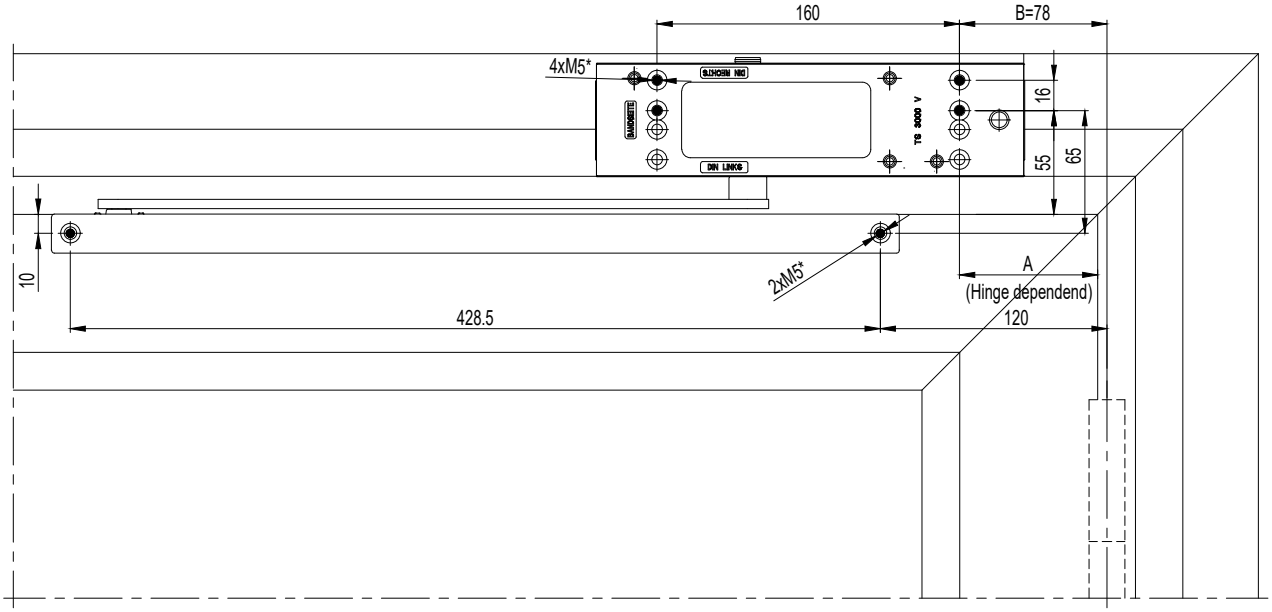
	057.5711.--	6x
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER



Kies correcte kaderprofiel
Choisir le correct profil de frame
Choose correct frame profile
Wähle korrekt Blendrahmen





ES 45Pa

TS 5000 : CONFIGURATIEMATRIX
TS 5000 : MATRICE DE CONFIGURATION
TS 5000 : CONFIGURATION MATRIX
TS 5000 : KONFIGURATIONSMATRIX

OPGEPAST MET LEKLIJST
ATTENTION RESET D'EAU
WARNING WITH DRIP CAP
WARNUNG MIT WETTERSCHENKEL

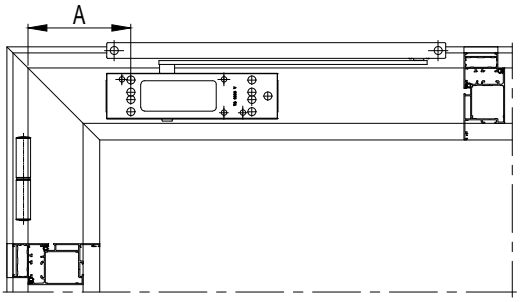
	Door Closers	Position	ES 45Pa	Mounting Plate
TS 5000	065.7443.14		YES only with 010.0136.XX 010.0813.XX 010.0113.XX 010.0114.XX	065.7588.14
	065.7452.14			-
TS 5000 L	065.7444.14		YES only with 010.0136.XX 010.0813.XX 010.0113.XX (direct mounting also possible with 010.0114.XX) (mounting plate also possible with 010.0120.XX)	065.7588.14
	065.7453.14			-
TS 5000 L	065.7444.14		NO	-
	065.7453.14			-
TS 5000	065.7443.14		YES only with 010.0120.XX 010.0114.XX (direct mounting also possible with 010.0136.XX)	065.7588.14
	065.7452.14			-

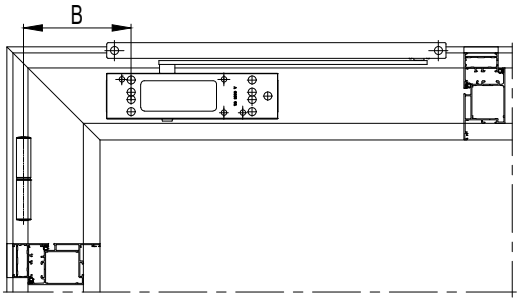
	Door Closers	Position	ES 45Pa	Mounting Plate	FP/SP
TS 5000	065.7443.14		YES	065.7582.14	-
	065.7452.14			-	-
TS 5000 L	065.7444.14		YES	065.7582.14	-
	065.7453.14			-	-
TS 5000 L	065.7444.14		NO	-	-
	065.7453.14			-	-
TS 5000	065.7443.14		YES	065.7582.14	-
	065.7452.14			-	-

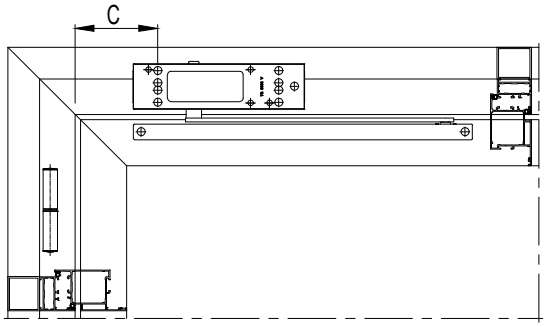
*)

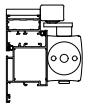
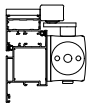
KIES JUISTE KADER OF WERKEN MET KOPPELPROFIEL
CHOISIR UN CADRE APPROPRIE OU TRAVAILLER AVEC PROFILE DE RACCORDEMENT
CHOOSE CORRECT FRAME OR WORK WITH CONNECTION PROFILE
WÄHLEN GEEIGNETE RAHMEN ODER ARBEITEN MIT KOPPLUNGSPROFIL

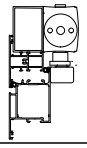
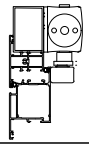
F

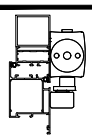
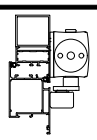


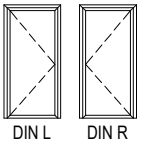




		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-5
065.6511.XX		A=B-6
065.8460.XX / 065.8475.XX		A=B-9

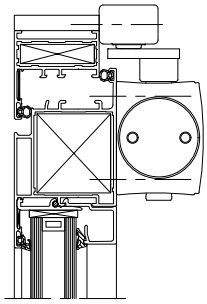
		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-5
065.6511.XX		A=B-6
065.8460.XX / 065.8475.XX		A=B-9

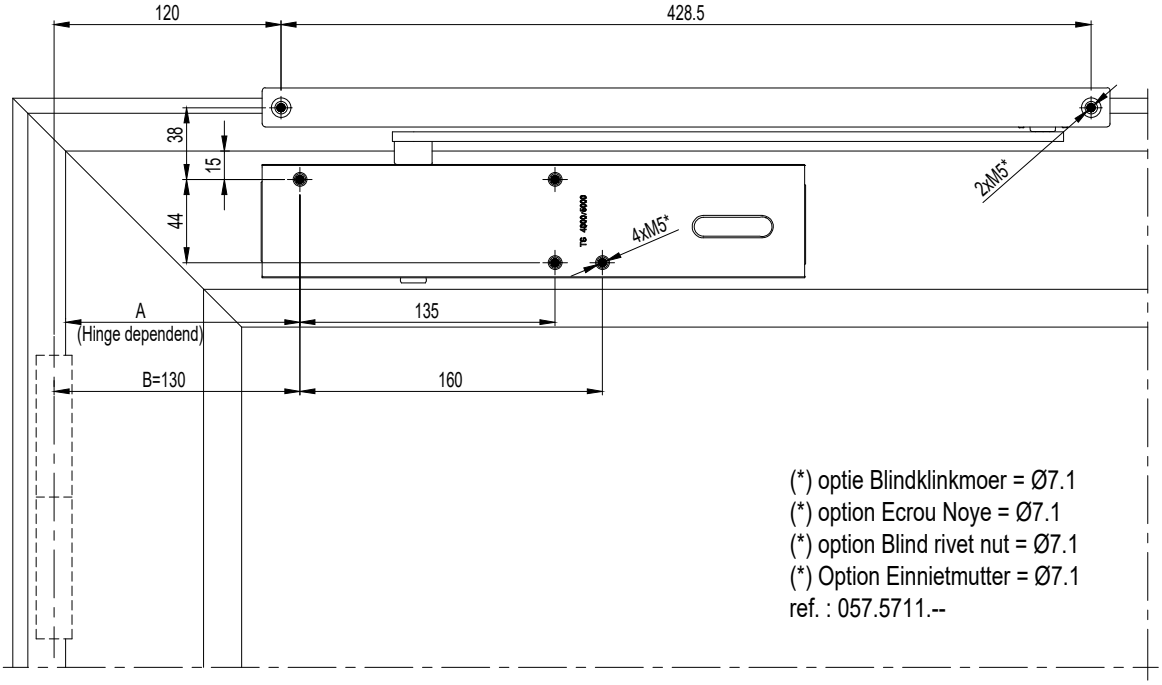
		ES 45Pa
065.6524.XX / 065.6547.XX		A=B-34-5 / C=B-27-5
065.6511.XX		A=B-34-6 / C=B-27-6
065.8460.XX / 065.8475.XX		A=B-34-9 / C=B-27-9



	057.5711.--	6x
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER





(*) optie Blindklinkmoer = Ø7.1
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(*) option Blind rivet nut = Ø7.1
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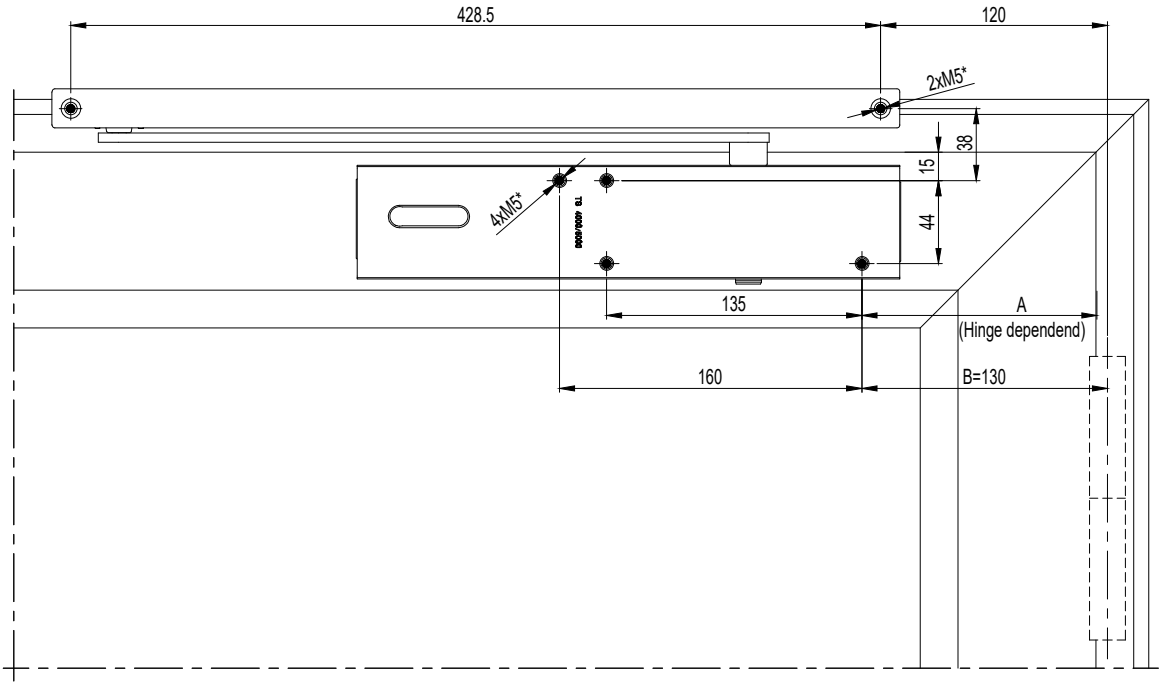

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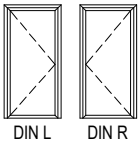

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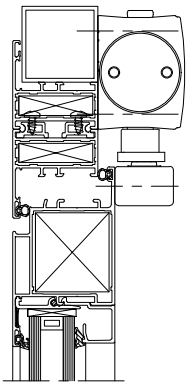
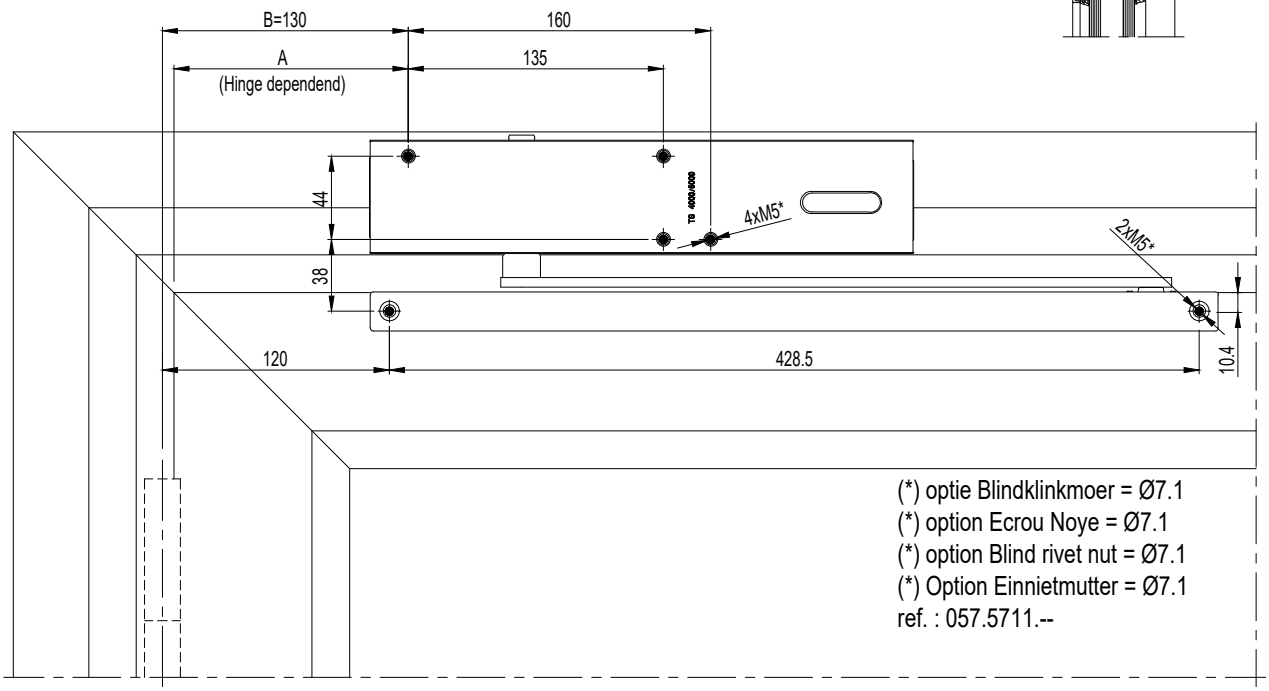
	050.5081.--	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER



Kies correcte kaderprofiel
Choisir le correct profil de frame
Choose correct frame profile
Wähle korrekt Blendrahmen



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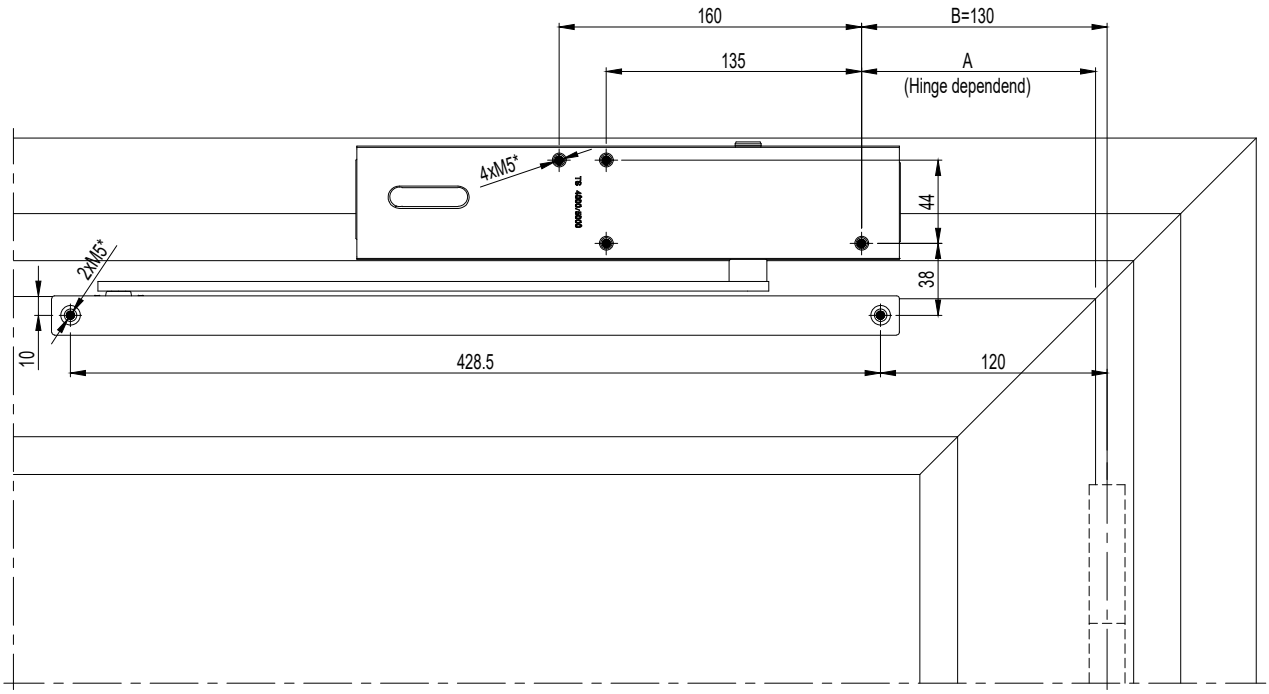

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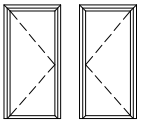

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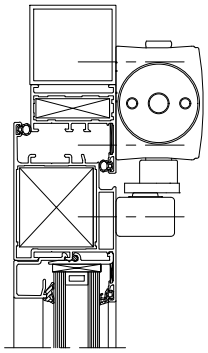
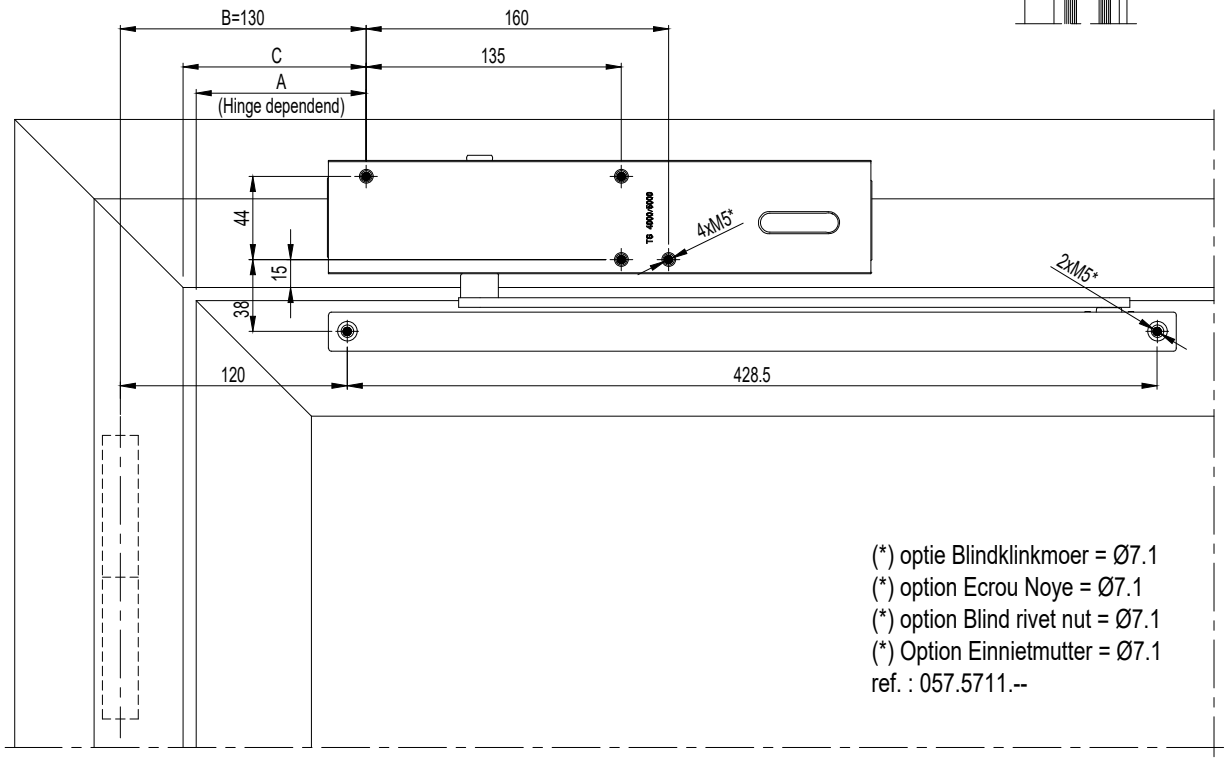
BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER

OPENINGSDEMPING NIET EFFECTIEF
FREINAGE À L'OUVERTURE NE PAS EFFICACE
BACK CHECK NOT EFFECTIVE
ÖFFNUNGSDÄMPFUNG UNWIRKSAM





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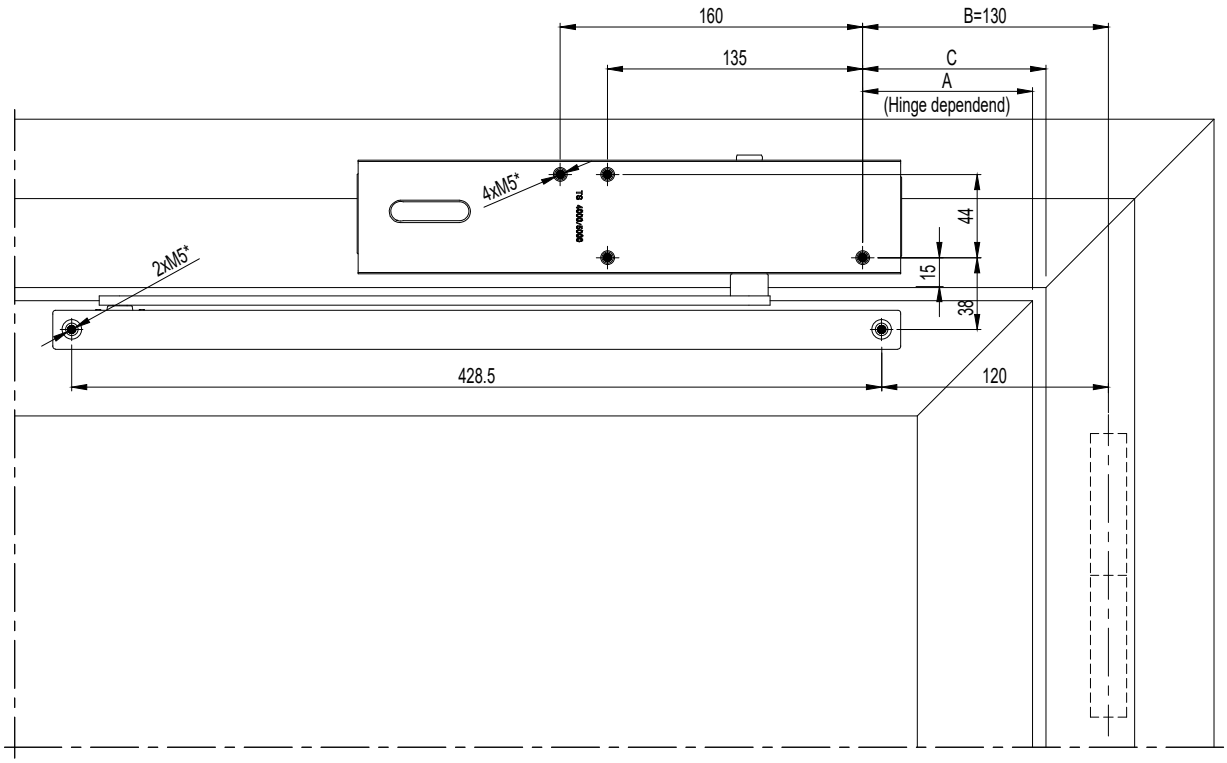

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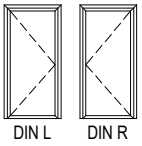

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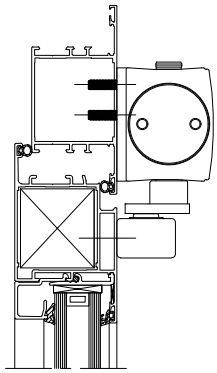
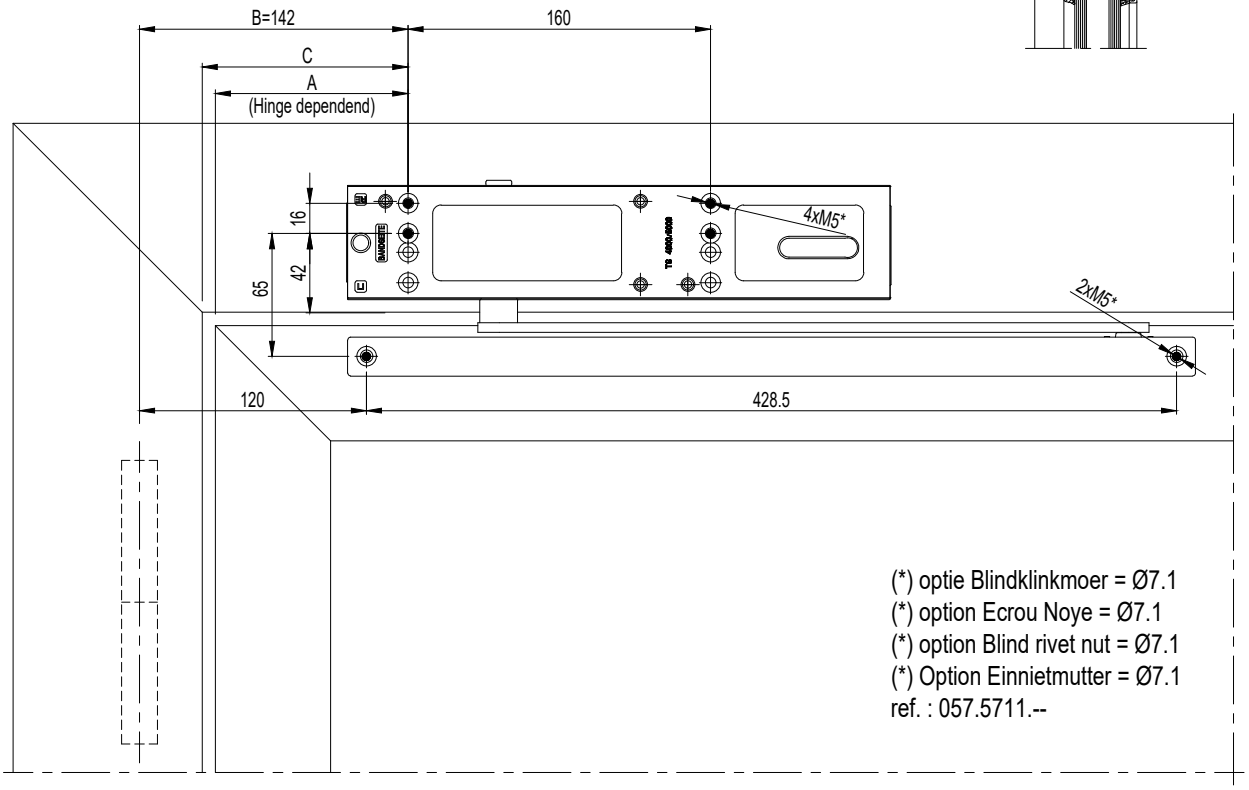
BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER

OPENINGSDEMPING NIET EFFECTIEF
FREINAGE À L'OUVERTURE NE PAS EFFICACE
BACK CHECK NOT EFFECTIVE
ÖFFNUNGSDÄMPFUNG UNWIRKSAM





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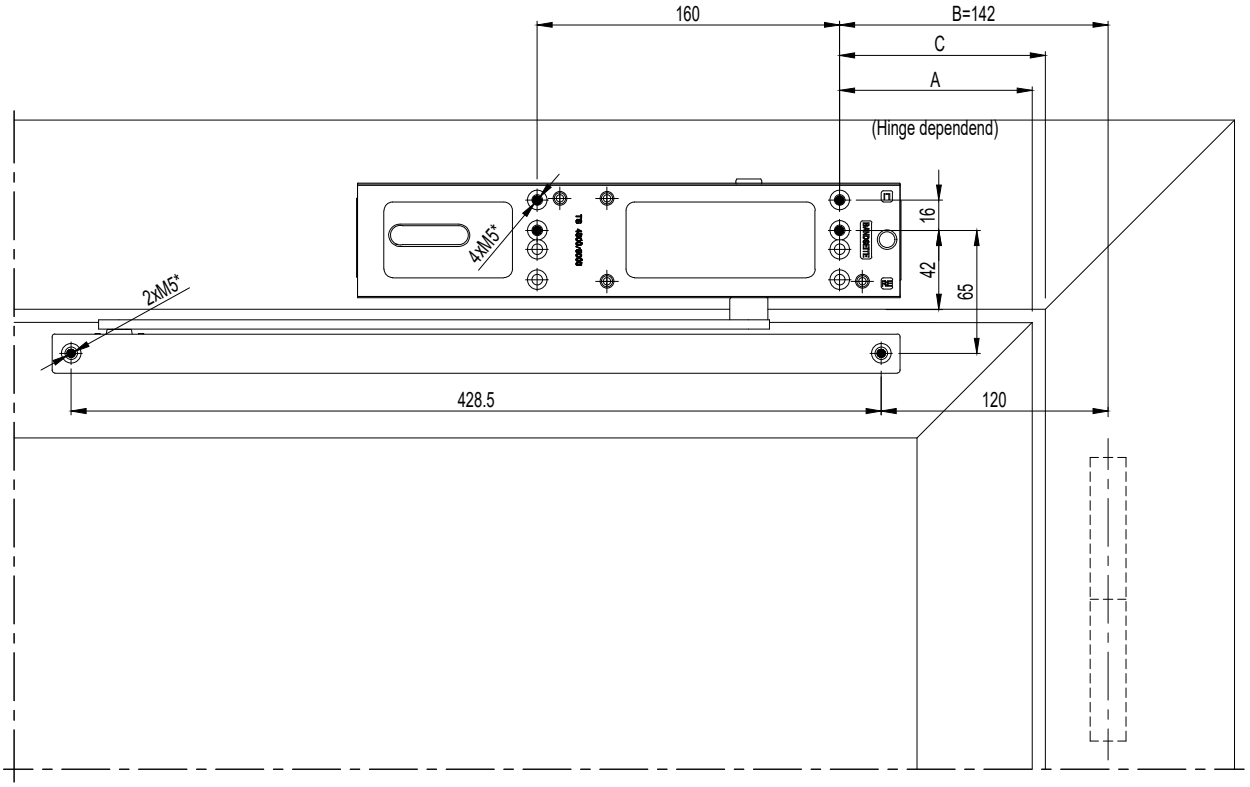

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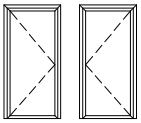

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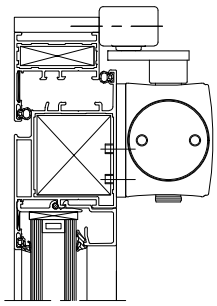

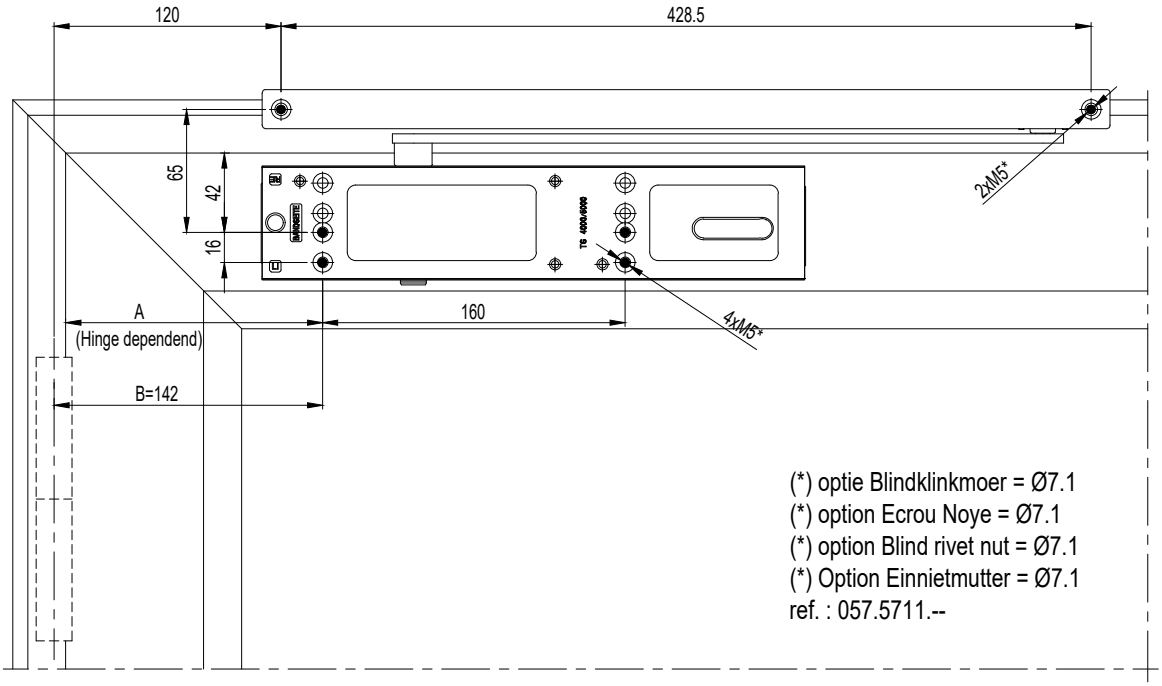

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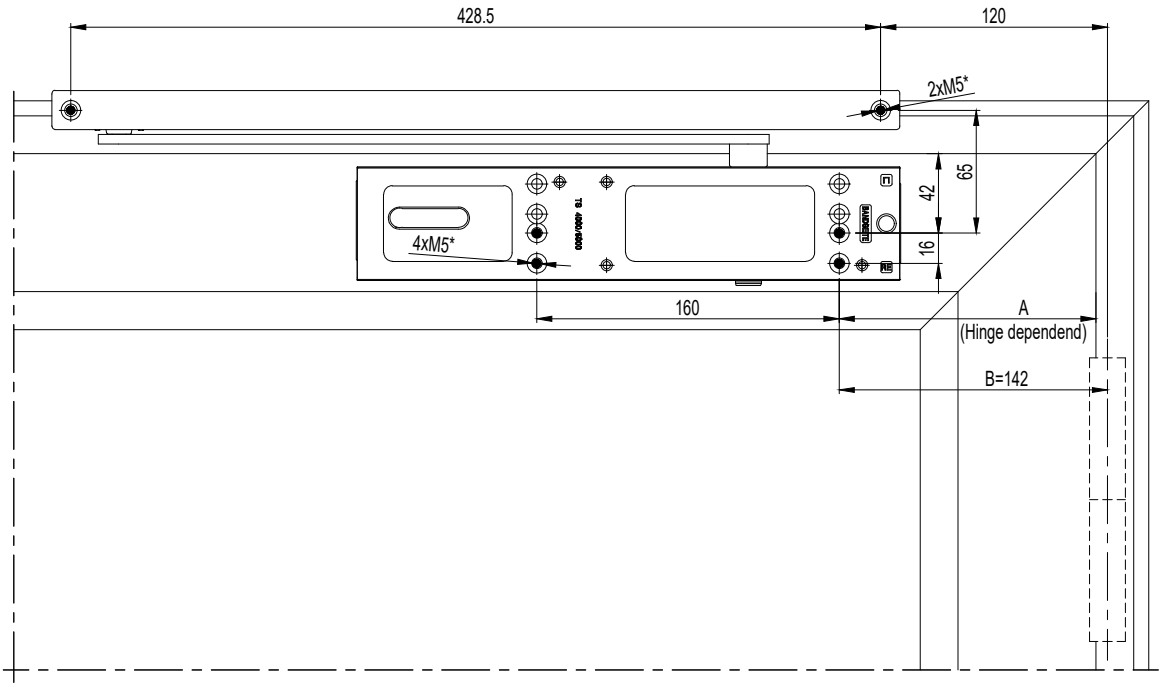

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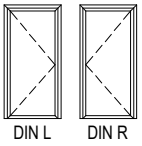

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BOORGATEN
DRILL HOLES
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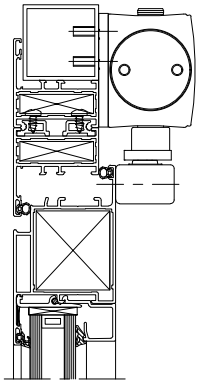

Kies correcte kaderprofiel
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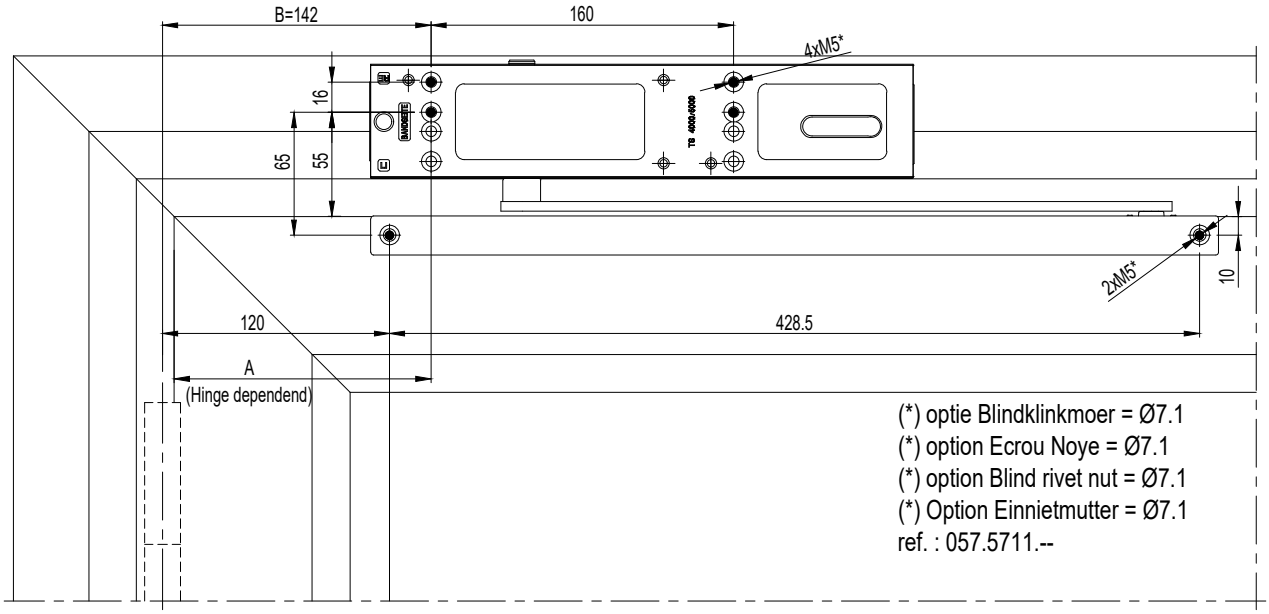
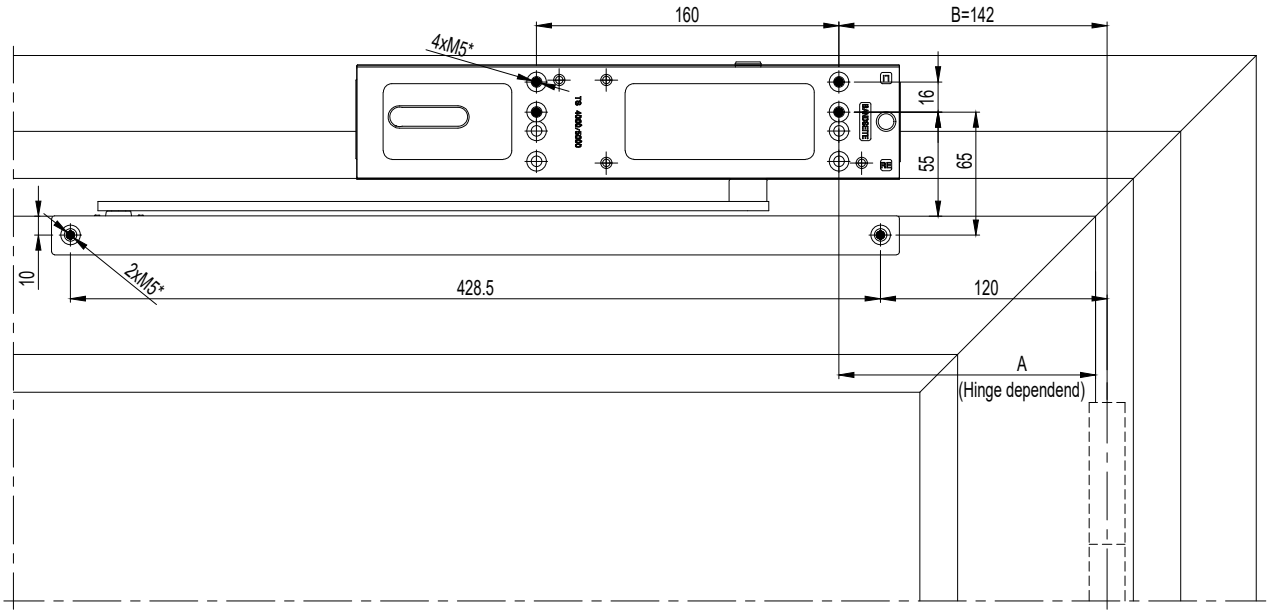
Choose correct frame profile
Wähle korrekt Blendrahmen

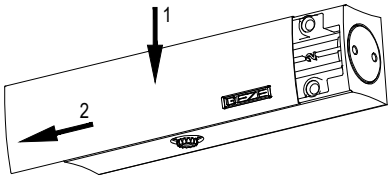


(*) optie Blindklinkmoer = Ø7.1
(*) option Ecrou Noye = Ø7.1
(*) option Blind rivet nut = Ø7.1
(*) Option Einnietmutter = Ø7.1
ref. : 057.5711.--

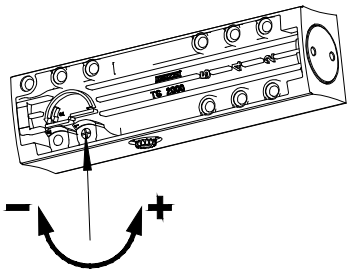


F

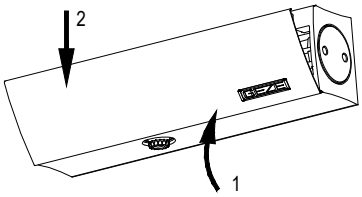
AFDEKPLAAT VERWIJDEREN
ENLEVER LE TÔLE DE RECOUVREMENT
REMOVE COVER PLATE
SCHIEBER ENTFERNEN



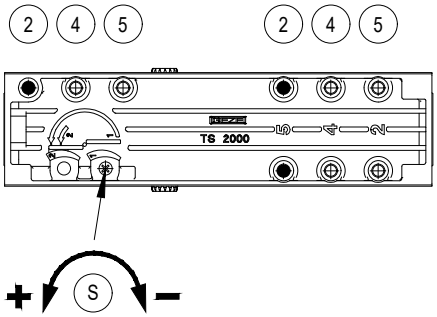
INSTELLEN
AJUSTER
ADJUST
EINSTELLEN



AFDEKPLAAT INKLIKKEN
CLIP LE TÔLE DE RECOUVREMENT
CLIP ON COVER PLATE
SCHIEDER AUFKLIPSEN



TS 2000 V

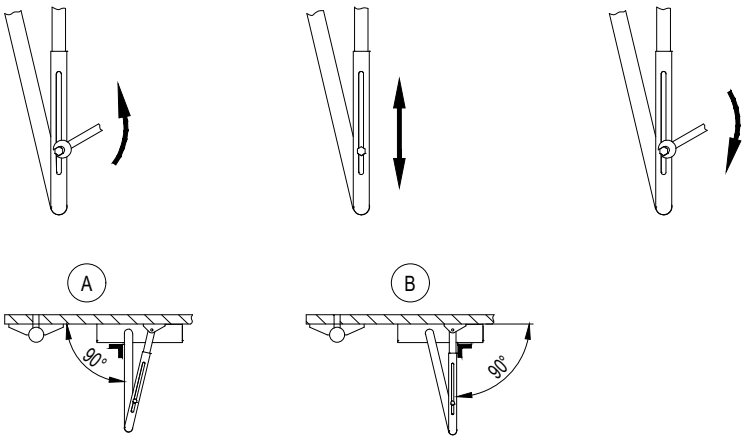


Setting force		Door width (mm)
2	Force 2	750 - 850
4	Force 4	850 - 1100
5	Force 5	1100 - 1250

2 4 5
Instelling sluitkracht door verzetten montage
Réglage de la force de fermeture par décalage de la ferme-porte
Closer size setting via staggered mounting
Einstellung Türschliesser grosse über versetzte Montage

S
Sluitsnelheid
Vitesse de fermeture
Closing speed
Schliessgeschwindigkeit

Instelling eindslag - Réglage de verrouillage - Adjustment latching - Einstellung Verriegeln

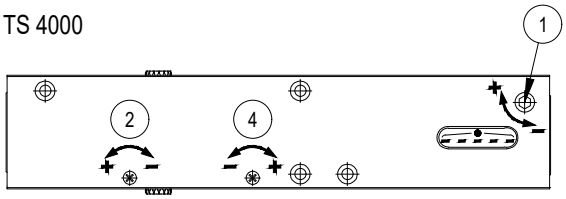


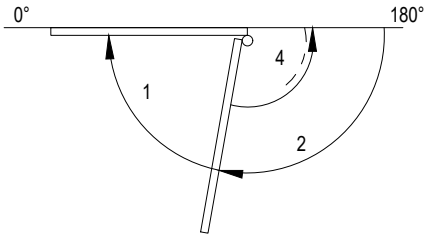
Met eindslag
Avec de verrouillage
With latching
Mit Verriegeln

Zonder eindslag
Sans de verrouillage
Without latching
Ohne Verriegeln

F

TS 4000

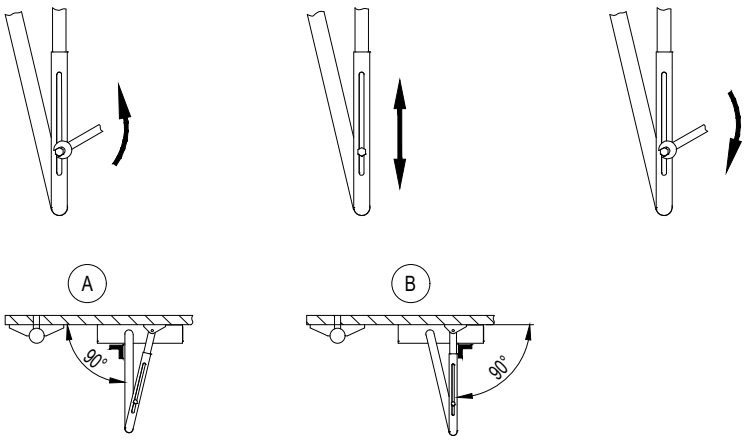




1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
4. Openingsdemping - Antisiphon - Back check - Öffnungsdämpfung

Setting force	Door width (mm)
1	< 750
2	750 - 850
3	850 - 950
4	950 - 1100
5	1100 - 1250
6	1250 - 1400

Instelling eindslag - Réglage de verrouillage - Adjustment latching - Einstellung Verriegeln

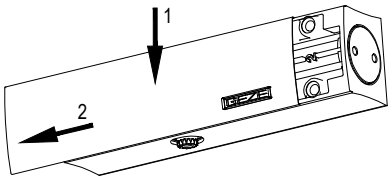


Met eindslag
Avec de verrouillage
With latching
Mit Verriegeln

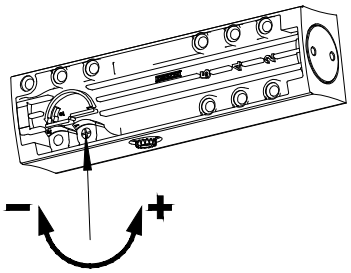
Zonder eindslag
Sans de verrouillage
Without latching
Ohne Verriegeln

F

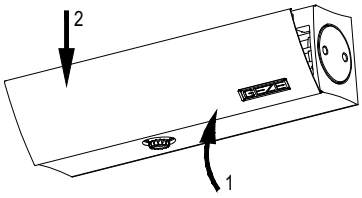
AFDEKPLAAT VERWIJDEREN
ENLEVER LE TÔLE DE RECOUVREMENT
REMOVE COVER PLATE
SCHIEBER ENTFERNEN



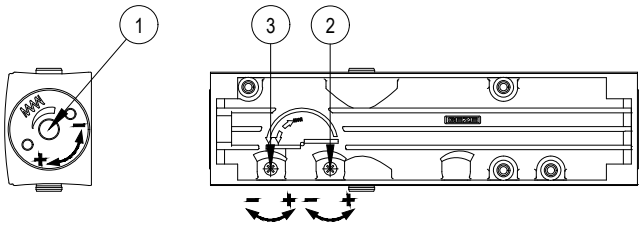
INSTELLEN
AJUSTER
ADJUST
EINSTELLEN



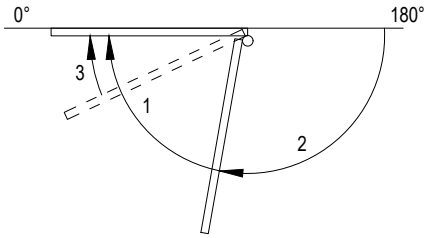
AFDEKPLAAT INKLIKKEN
CLIP LE TÔLE DE RECOUVREMENT
CLIP ON COVER PLATE
SCHIEDER AUFKLIPSEN



TS 3000 V

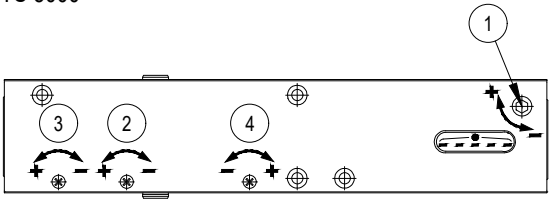


1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
3. Eindslag - Action d'une clenche - Latching action - Endschlag



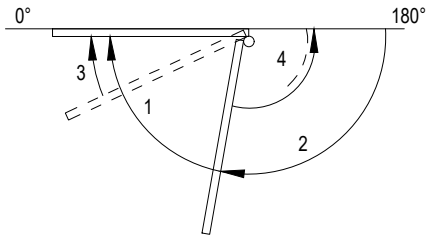
TS 3000 V	
Setting force	Door width (mm)
Buffer -	< 750
2,5 turns	750 - 850
5 turns	850 - 950
Buffer +	950 - 1100

TS 5000

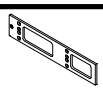


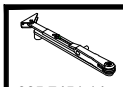
1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
3. Eindslag - Action d'une clenche - Latching action - Endschlag
4. Openingsdemping - Antisiphon - Back check - Öffnungsdämpfung

Setting force	Door width (mm)
2	< 850
3	850 - 950
4	950 - 1100
5	1100 - 1250
6	1250 - 1400

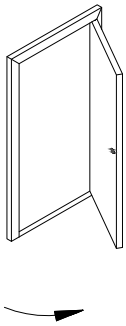


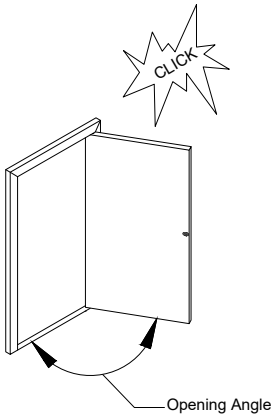
F

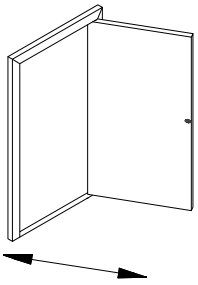
 Mounting Plate	Closer Type	Used With
065.7582.14	TS 4000 / TS 5000 / TS 5000 L	065.7441.14 / 065.7443.14 / 065.7444.14
065.7587.14	TS 2000 V	065.7440.14
065.7588.14	TS 3000	065.7442.14

 065.7451.14	Opening Angle
TS 2000	70° - 150°
TS 4000	70° - 150°

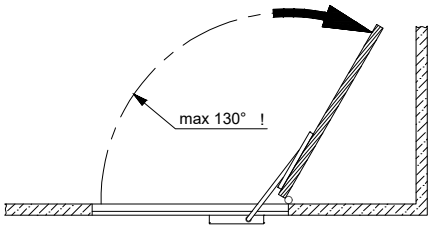
Accessories	Closer Type	Used With
065.7480.--	TS 3000 (L) / TS 5000 (L)	065.7452.14 / 065.7453.14 065.7470.14 / 065.7471.14



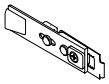




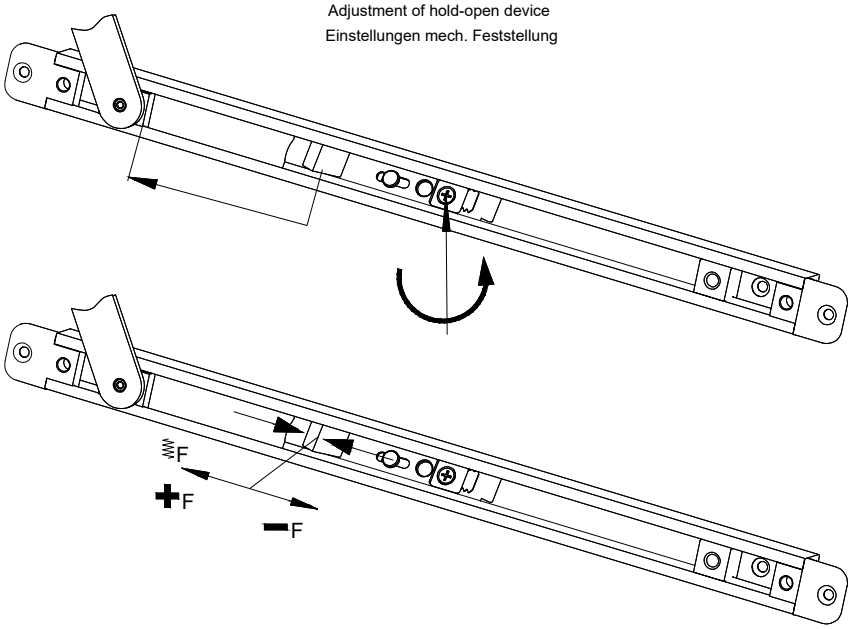
Deur staat vast
La porte maintenu ouvert
Door held open
Tür offen gehalten

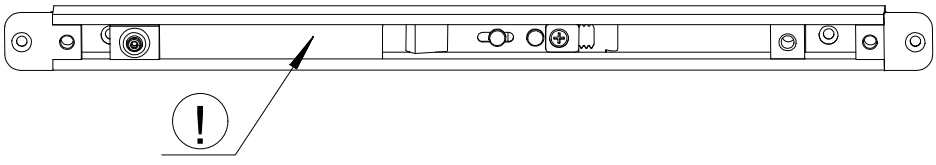


F

 065.7480.--	Opening Angle
TS 3000 (L)	80° - 130°
TS 5000	80° - 130°
TS 5000 L	80° - 130°

Instellingen van de mechanische vastzetting
Réglages de l'arrêt mécanique
Adjustment of hold-open device
Einstellungen mech. Feststellung





UR AN DER BANDESEITE MONTIEREN
MONTER SEULEMENT SUR LE COTE DE LA CHARNIERE
ONLY MOUNT ON THE HINGE SIDE
NUR AN DER BANDESEITE MONTIEREN

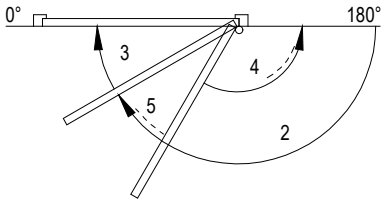
F

Door Type	max. FB (power size) *	min./max. hinge distance	Closing Power	max. FG (kg)	min. profile width	Door Side	DIN L/R	Closer Type	Closer Type	Articles
	1100 mm (max power 4)		2-4	130	40		DIN L/R	Boxer 2-4		065.7445.14
										065.7456.14

*) ZIE MAX AFMETINGEN SYSTEEM
VOIR DIMENSIONS MAX. SYSTEME
SEE MAX. DIMENSIONS SYSTEM
SIEHE MAX. ABM. SYSTEM

F

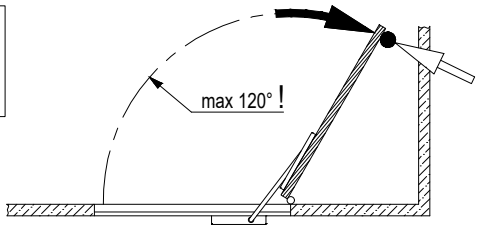
Adjustment							
Boxer	1	2	3	4	5	6	7
Boxer	YES	YES	YES	YES		120°	80°-120°



1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
3. Eindslag - Action d'une clenche - Latching action - Endschlag
4. Openingsdemping - Antisiphon - Back check - Öffnungsdämpfung
5. Sluitvertraging - Action de fermeture retardée - Delayed closing action - Schliessverzögerung
6. Openingshoek - Angle d'ouverture - Opening angle - Öffnungswinkel
7. Vastzethoek - Angle de fixation - Fixing angle - Befestigungswinkel

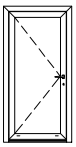
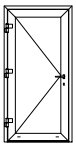
Closer Power Size	Max. FB (mm)
1	750
2	850
3	950
4	1100
5	1250
6	1400
7	1600

Z	Vastzet positie is passeerbaar Position de blocage est passable The hold-open point can be overridden Feststellpunkt überfahrbar

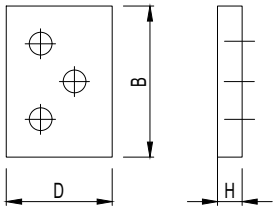


F

Boxer		Position	ES 45Pa
Boxer 2-4	065.7445.14		YES
	065.7456.14		

ES 45Pa			Profiles	Parts
Boxer 2-4			010.0136.XX 010.0183.XX 010.0134.XX 010.0140.XX 010.0813.XX 010.0113.XX 010.0120.XX 010.0114.XX	M0.4004.XX (30x15x4)
			010.0183.XX 010.0140.XX 010.0120.XX 010.0114.XX	C0.1515.XX (15x15x(10.5)/(31.5))
			010.0112.XX	M0.4004.XX (30x28x2.5)
			010.0136.XX 010.0183.XX 010.0134.XX 010.0140.XX 010.0813.XX 010.0113.XX 010.0120.XX 010.0114.XX	M0.4004.XX (30x15.5x4)
			010.0183.XX 010.0140.XX 010.0120.XX 010.0114.XX	C0.1515.XX (15x15x(10.5)/(31.5))
			010.0412.XX	M0.4004.XX (30x28x2.5)

BxDxH



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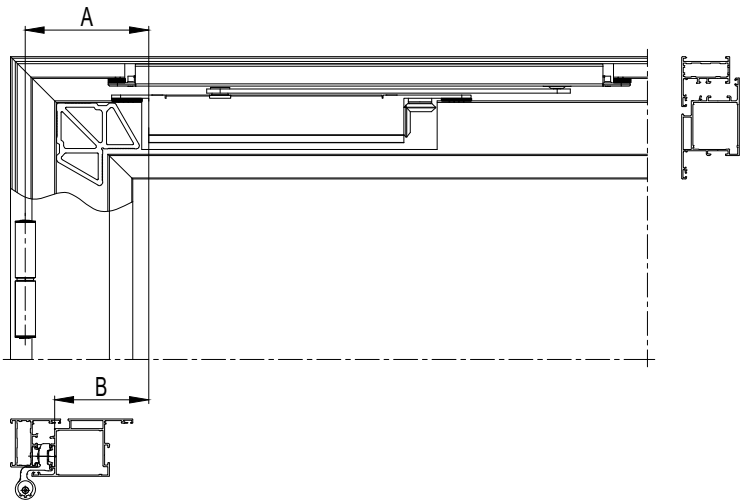
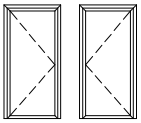
BOXER : AFSTAND SCHARNIERAS
BOXER : DISTANCE AXE PAUMELLE
BOXER : DISTANCE HINGE PIN
BOXER : ABSTAND ECKLAGERBOLZE

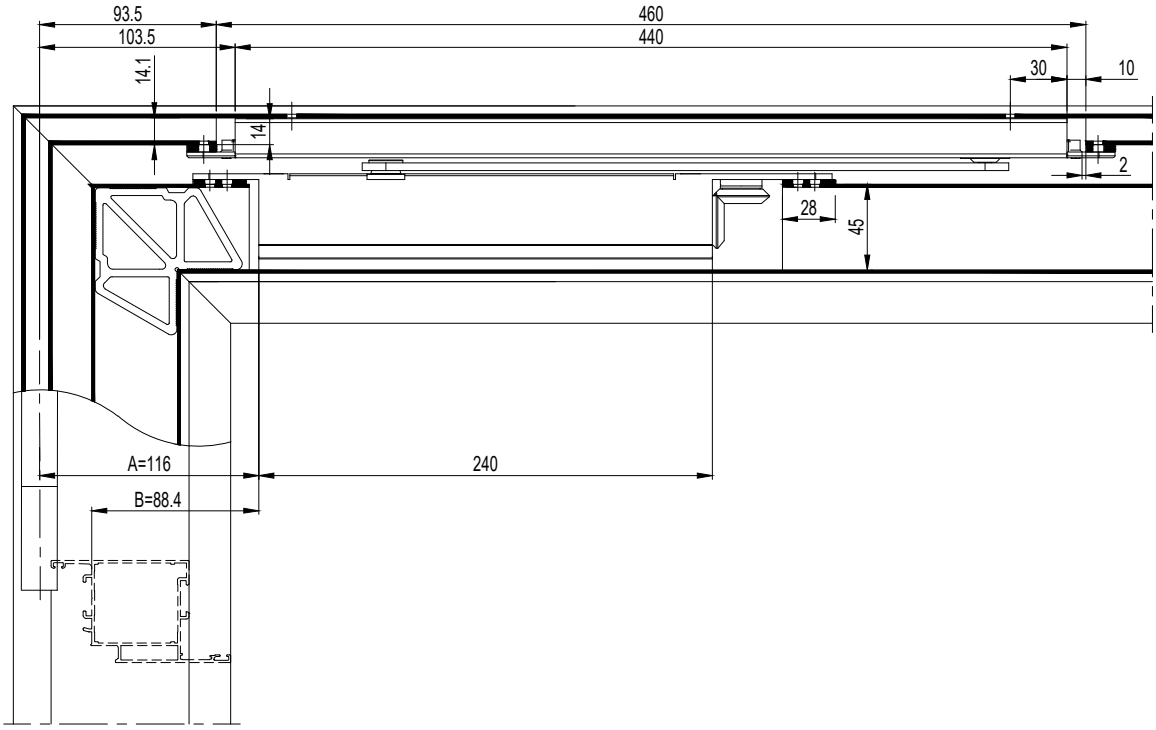


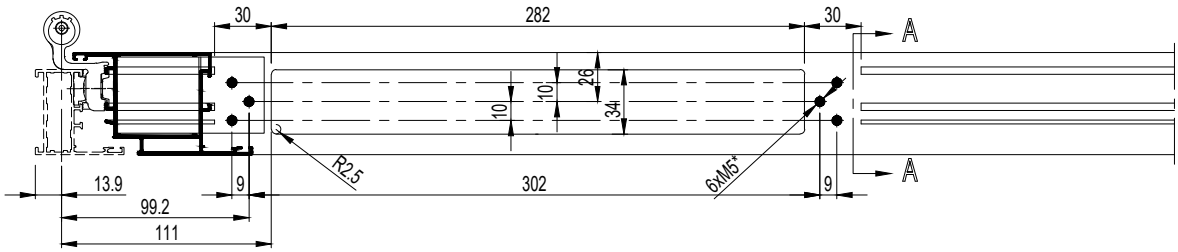
		ES 45Pa
065.6524.XX / 065.6547.XX		A=B+26.5
065.6511.XX		A=B+27.5
065.8460.XX / 065.8475.XX		A=B+30.5

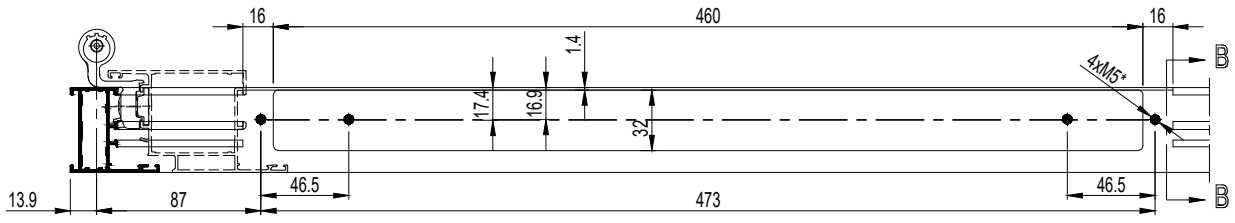


065.7456.14		
010.0136.XX 010.0134.XX 010.0813.XX 010.0113.XX	050.5161.-- of - ou - or - oder 052.5332.--	2x 2x
010.0183.XX 010.0140.XX 010.0120.XX	050.5162.-- of - ou - or - oder 052.5331.--	2x 2x
010.0114.XX	050.5081.-- of - ou - or - oder 052.5335.--	2x 2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER







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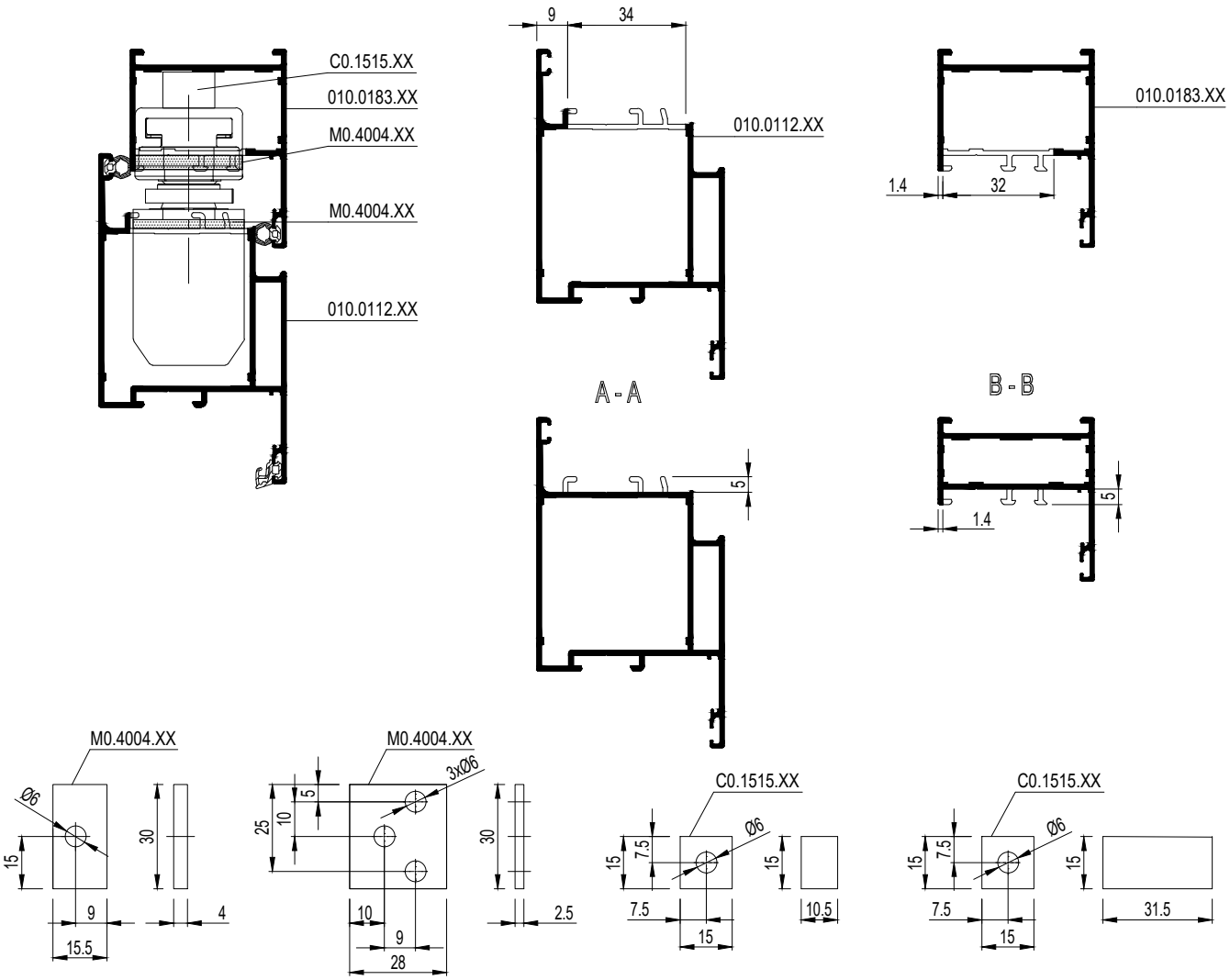
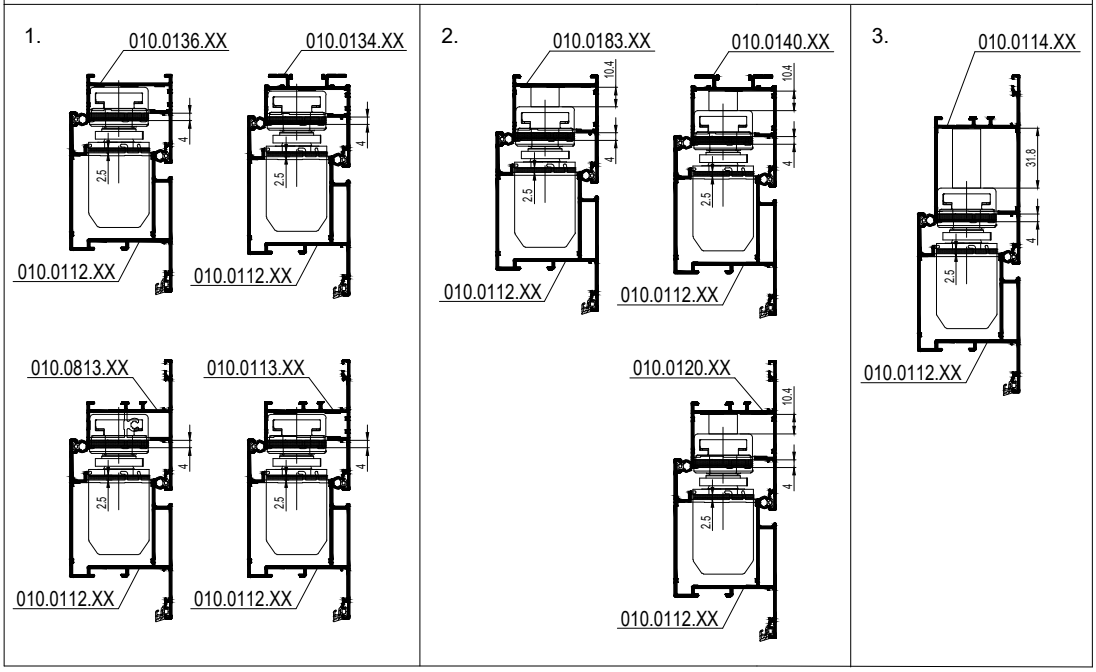
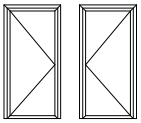


065.7445.14	1. M0.4004.XX (30x15.5x4), (30x28x2.5) 2. M0.4004.XX (30x15.5x4), (30x28x2.5) / C0.1515.XX (15x15x10.5) 3. M0.4004.XX (30x15x5.4), (30x28x2.5) / C0.1515.XX (15x15x31.5)

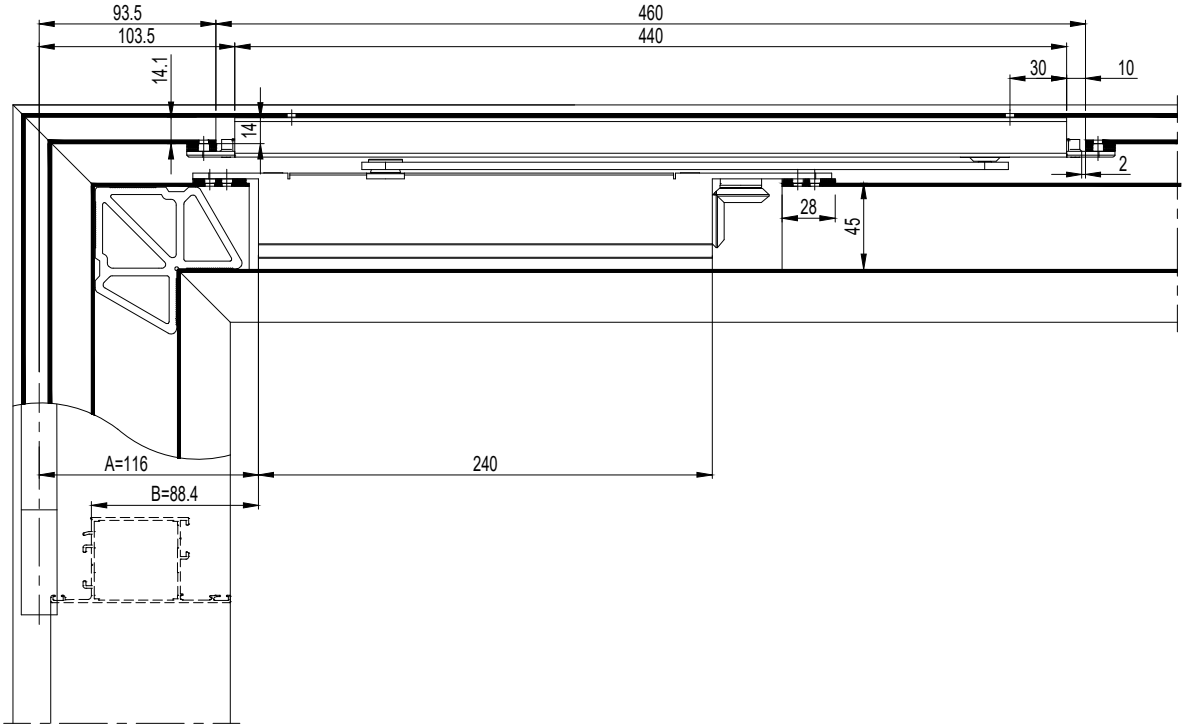


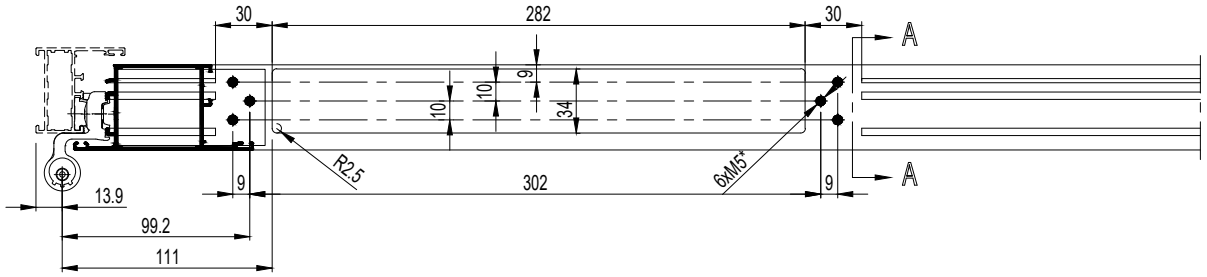
F

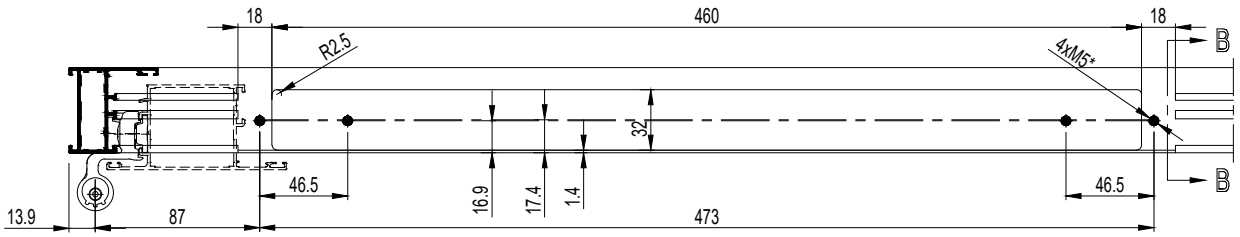


065.7456.14		
010.0136.XX 010.0134.XX 010.0813.XX 010.0113.XX	050.5161.-- of - ou - or - oder 052.5332.--	2x 2x
010.0183.XX 010.0140.XX 010.0120.XX	050.5162.-- of - ou - or - oder 052.5331.--	2x 2x
010.0114.XX	050.5081.-- of - ou - or - oder	2x

BOORGATEN
DRILL HOLES
TROUS DE PERCEUSE
BOHR LÖCHER







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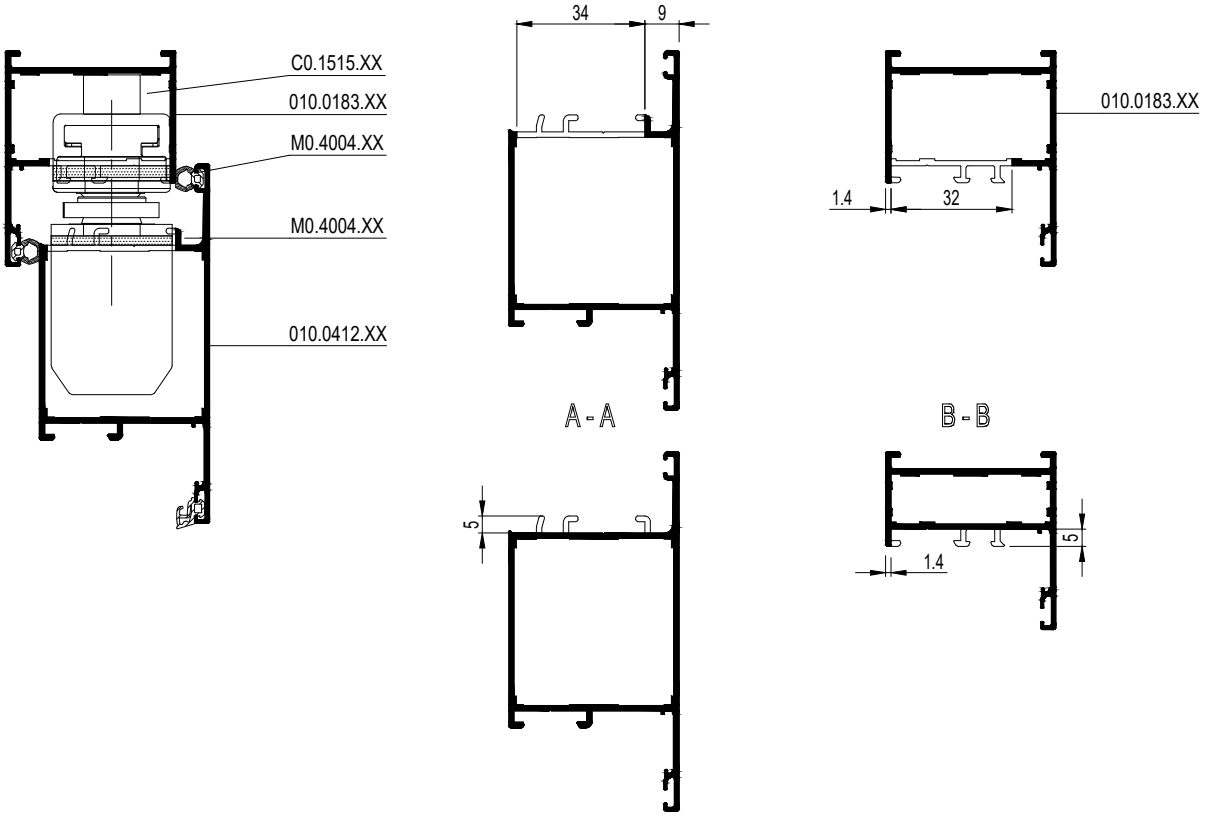
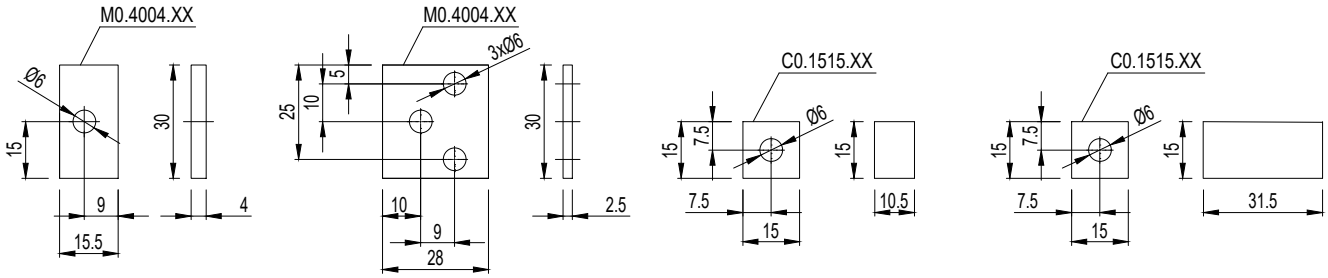
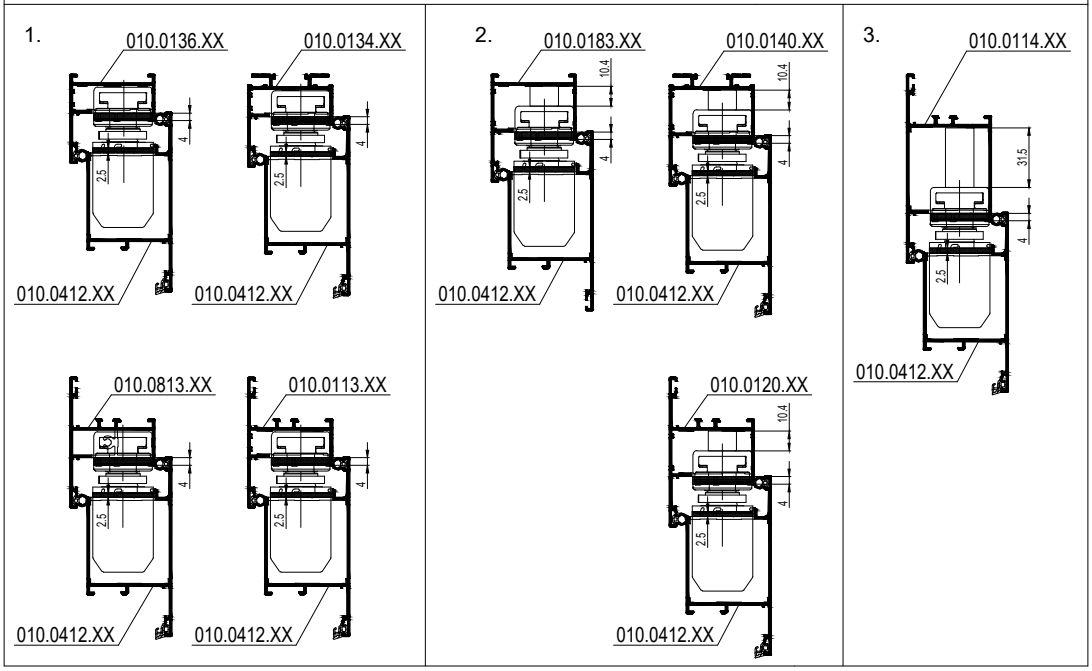


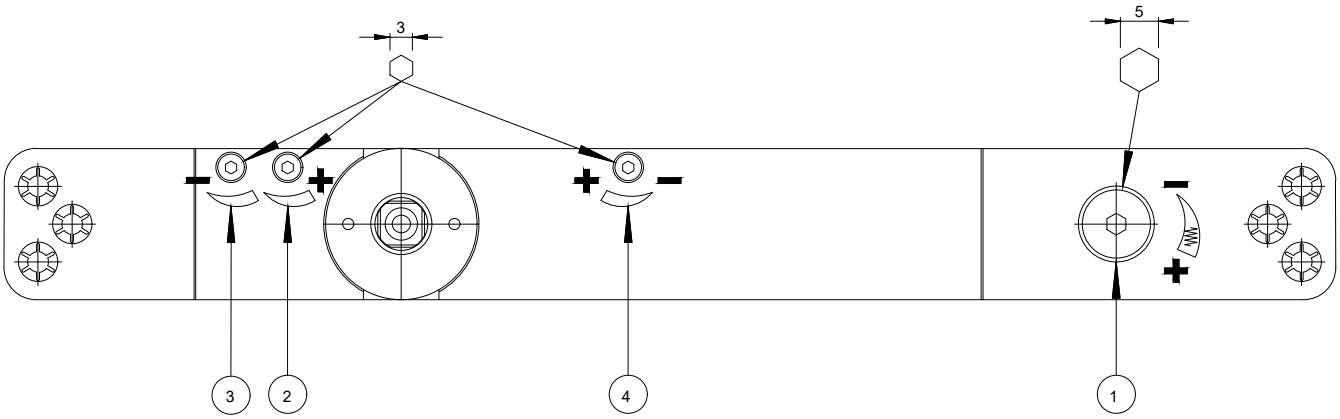


065.7456.14	1. M0.4004.XX (30x15.5x4), (30x28x2.5) 2. M0.4004.XX (30x15.5x4), (30x28x2.5) / C0.1515.XX (15x15x10.5) 3. M0.4004.XX (30x15x5.4), (30x28x2.5) / C0.1515.XX (15x15x31.5)

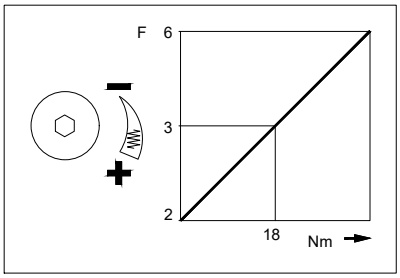


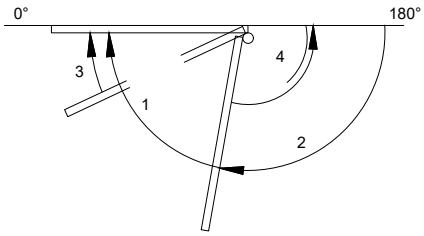
F

BOXER : INSTALLATIE PRINCIPE FIREPROOF
BOXER : PRINCIPE D' INSTALLATION FIREPROOF
BOXER : INSTALLATION PRINCIPLE FIREPROOF
BOXER : INSTALLATIONSPRINZIP FIREPROOF



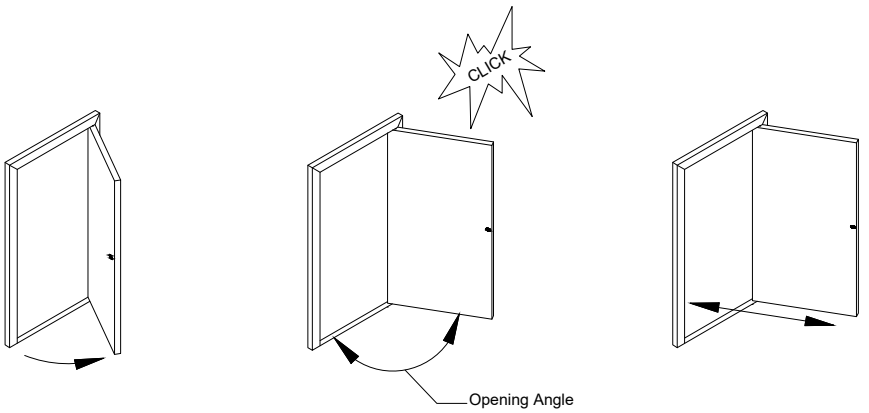
1. Sluitkracht - Force de fermeture - Closing force - Schliesskraft
2. Sluitsnelheid - Vitesse de fermeture - Closing speed - Schliessgeschwindigkeit
3. Eindslag - Action d'une clenche - Latching action - Endschlag
4. Openingsdemping - Antisiphon - Back check - Öffnungsdämpfung



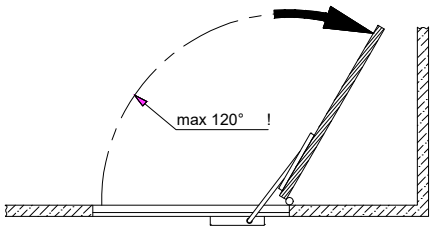


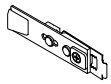
F

Accessories	Closer Type	Used With
065.7480.--	Boxer 20.7 mm rail	065.7456.14
065.7483.01	Boxer 20.7 mm rail	065.7456.14

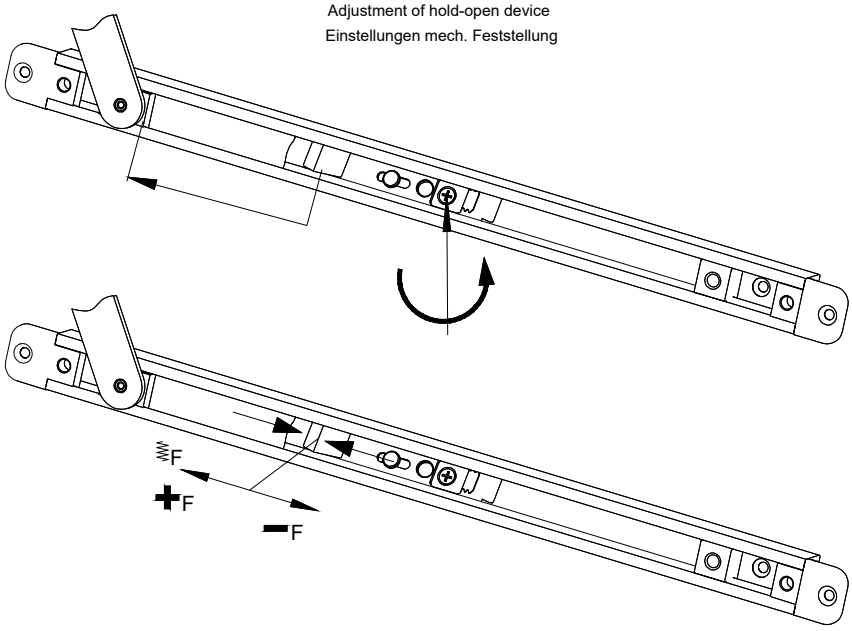


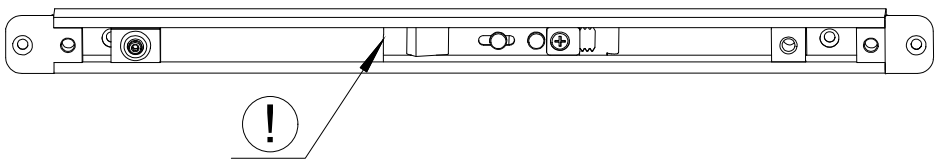
Deur staat vast
La porte maintenu ouvert
Door held open
Tür offen gehalten



 065.7480.--	Opening Angle
BOXER	80° - 120°

Instellingen van de mechanische vastzetting
Réglages de l'arrêt mécanique
Adjustment of hold-open device
Einstellungen mech. Feststellung





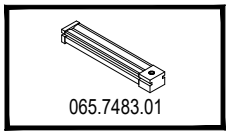
!	ENKEL AAN SCHARNIERZIJDE MONTEREN MONTER SEULEMENT SUR LE COTE DE LA CHARNIERE ONLY MOUNT ON THE HINGE SIDE NUR AN DER BANDESEITE

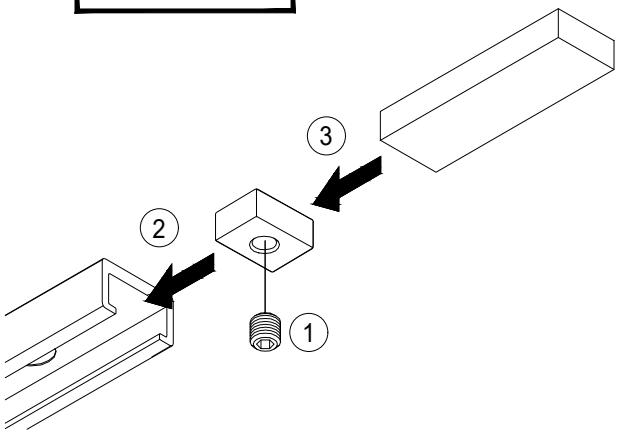
F

ES 45Pa

INSTELLING
AJUSTMENT
ADJUSTMENT
VERRIEGELUNG

1





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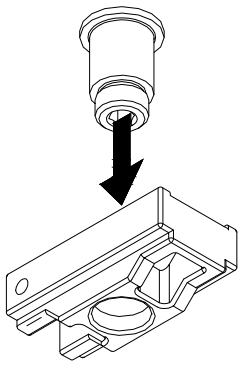

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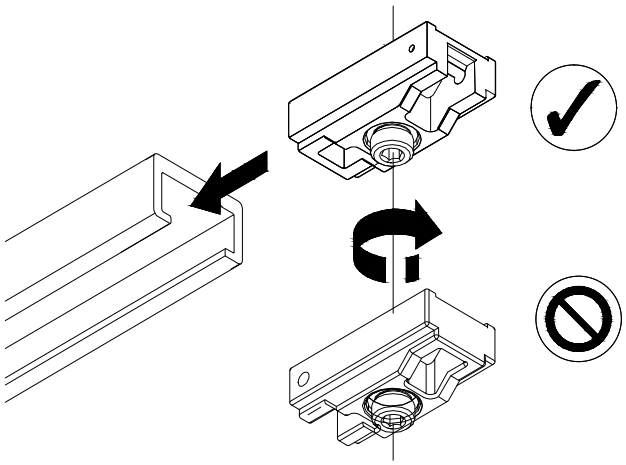

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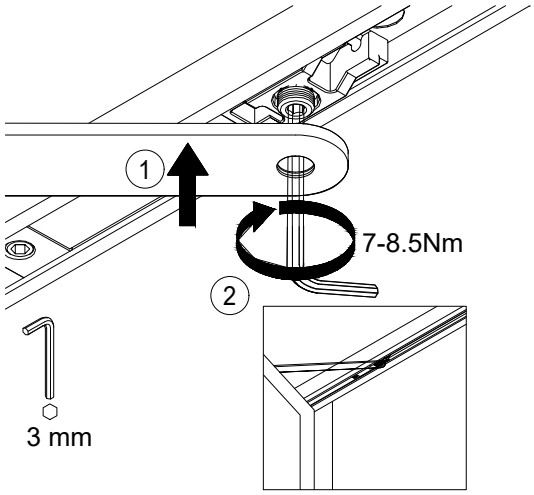

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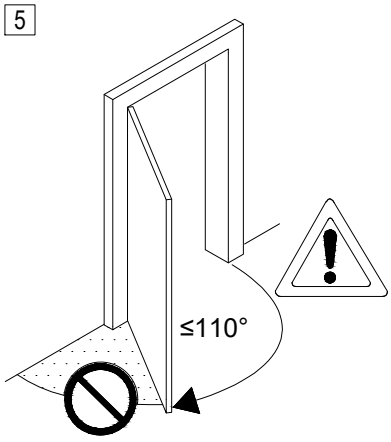
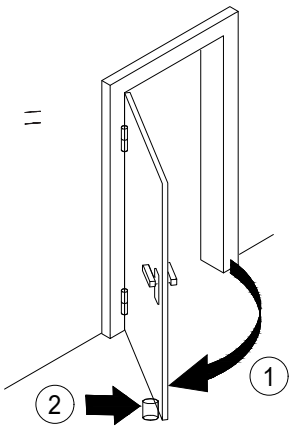
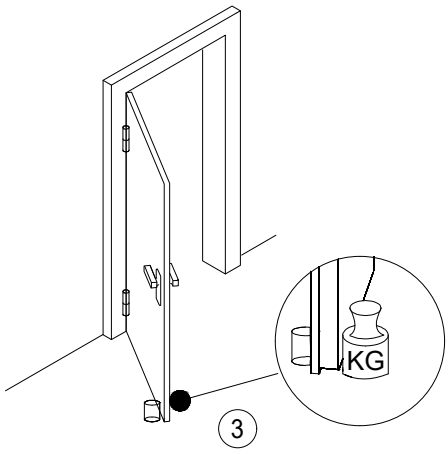


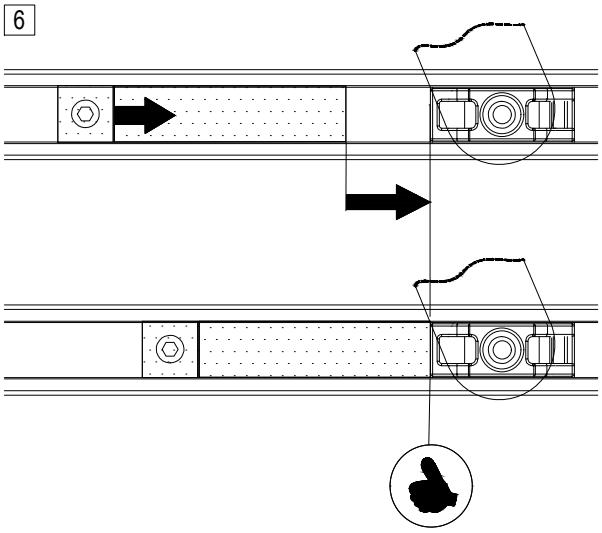




MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE
1 2 3 .

F

6



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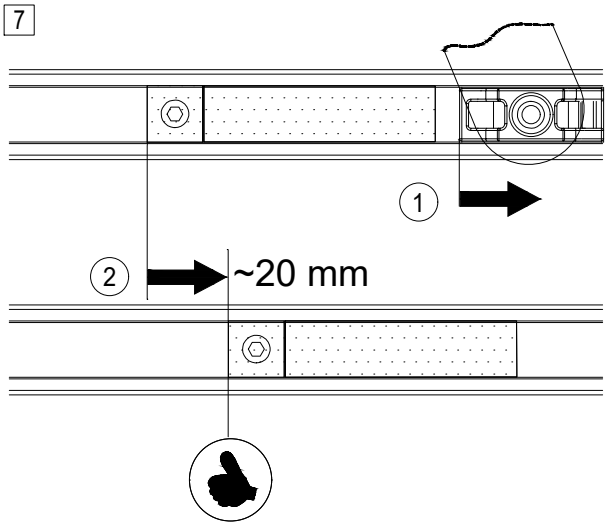

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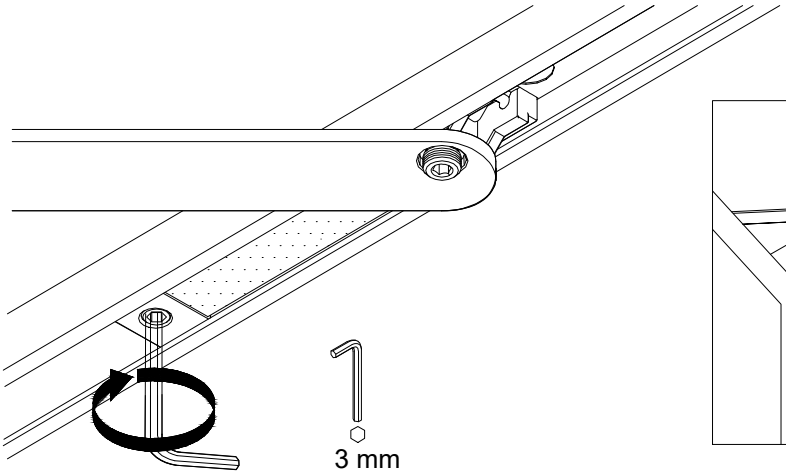
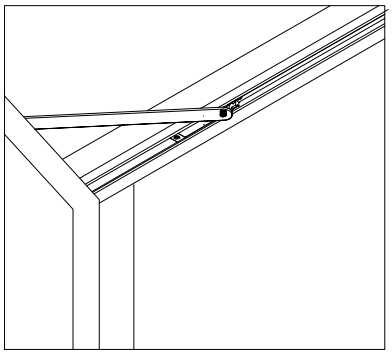




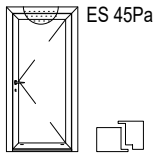
MONTAGEVOLGORDE
L 'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

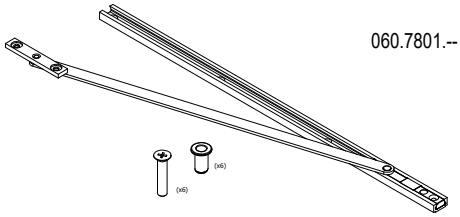
1 2 3 .

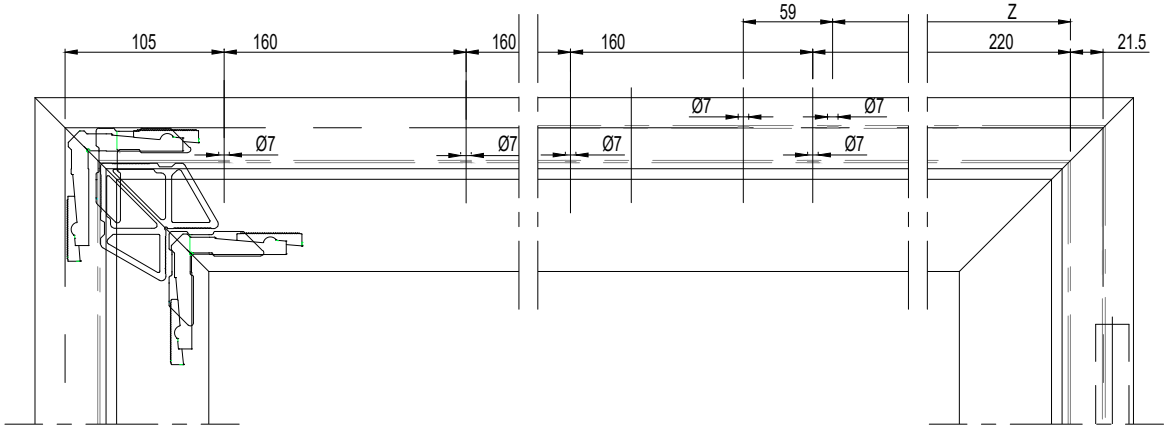
F

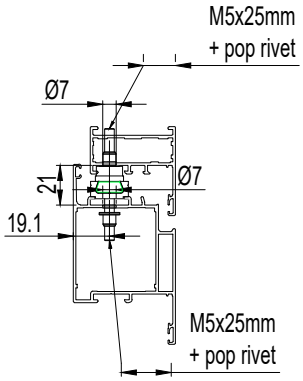
ES 45Pa

DEURBEGRENZER OPDEKDEUREN
LIMITEUR DE FENETRE PORTE
DOORRESTRICTOR REBATED DOORS
TUEROEFFNUNGSBEGRENZER FENSTERTUER

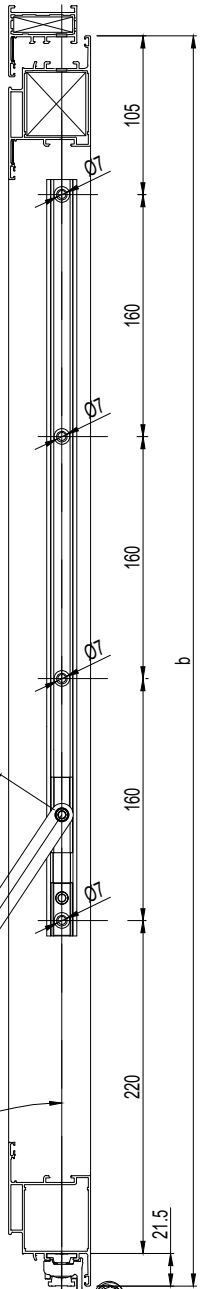


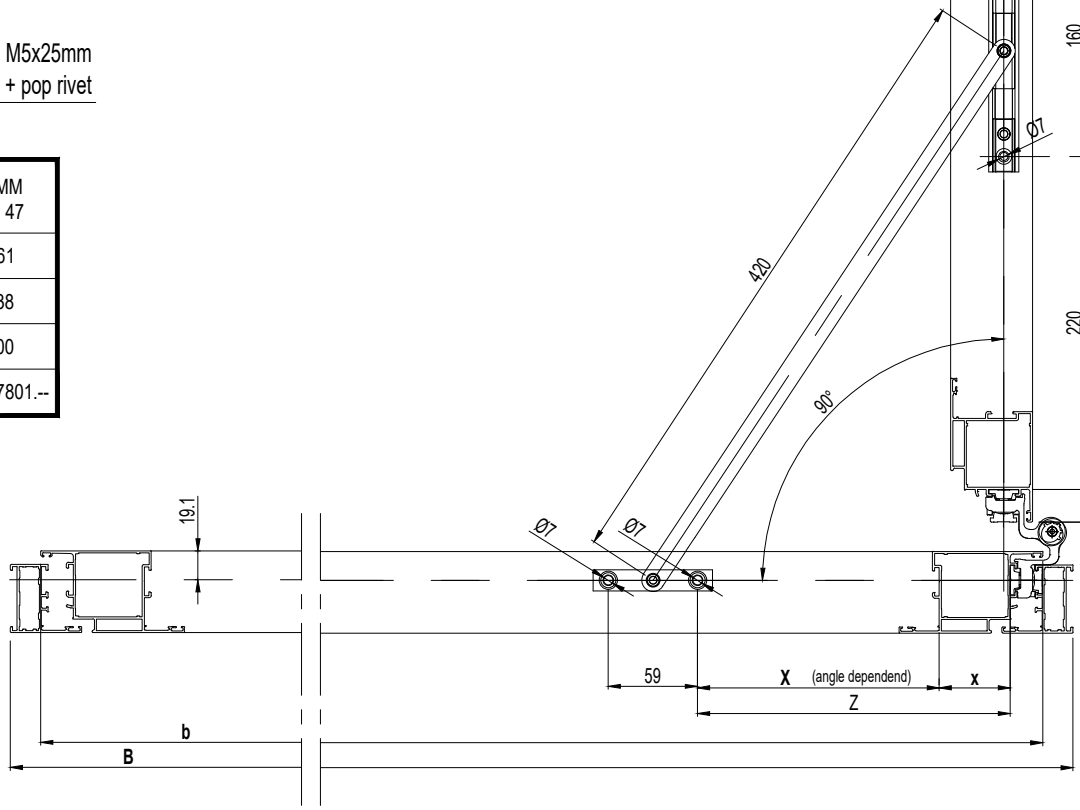






	X MM x = 47
∠ 90°	161
∠ 100°	138
∠ 110°	100
b ≥ 750 MM → 060.7801.--	



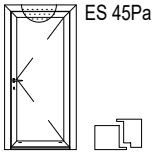


F

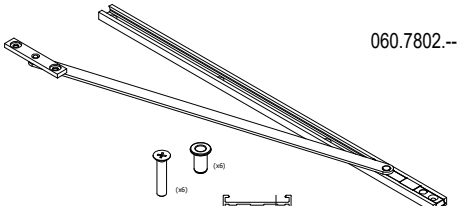
ES 45Pa

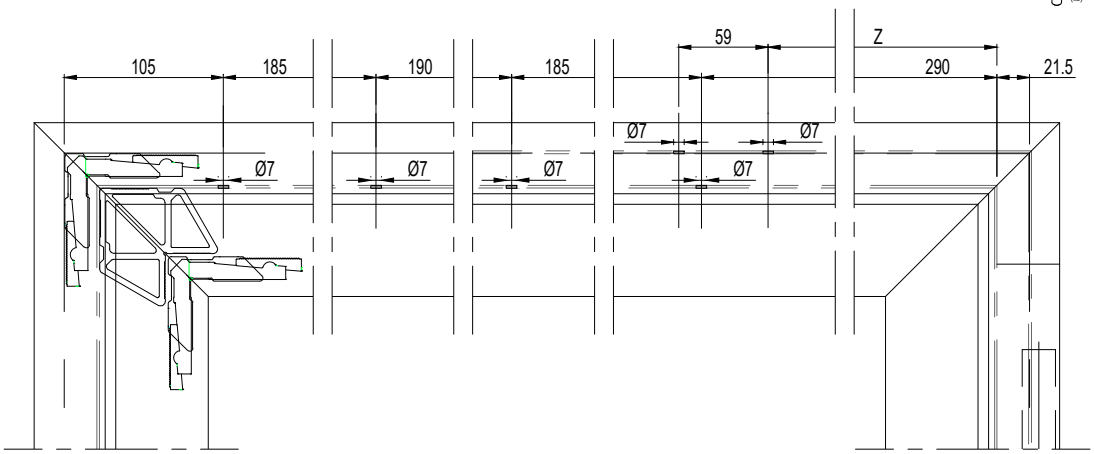
DEURBEGRENZER OPDEKDEUREN
LIMITEUR DE FENETRE PORTE
DOORRESTRICTOR REBATED DOORS
TUEROEFFNUNGSBEGRENZER FENSTERTUER

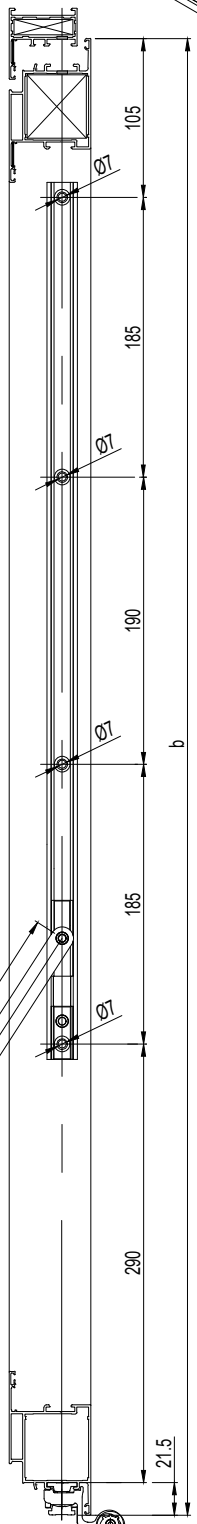
Reynaers Aluminium

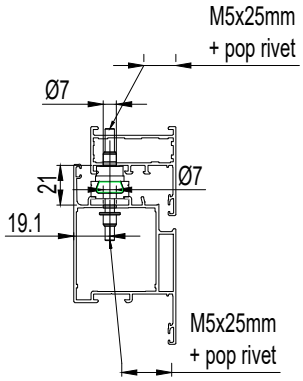


060.7802.--

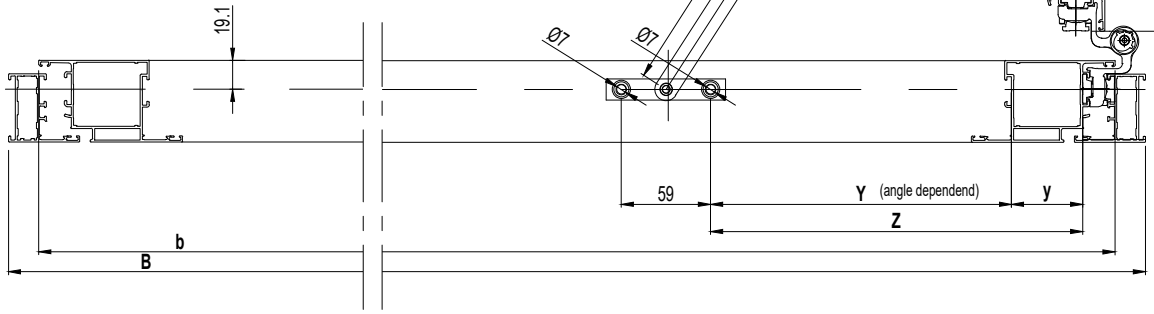






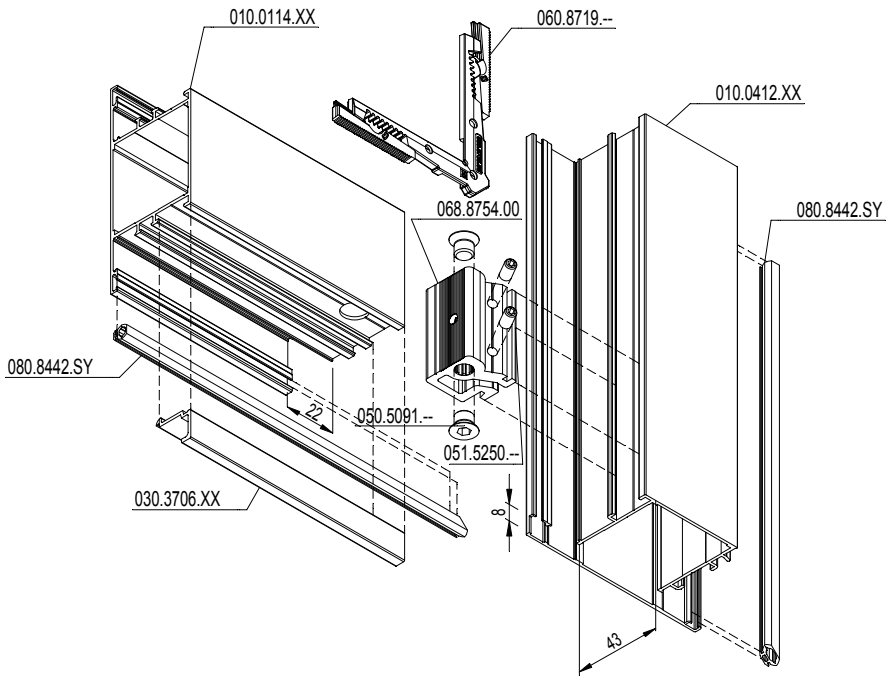


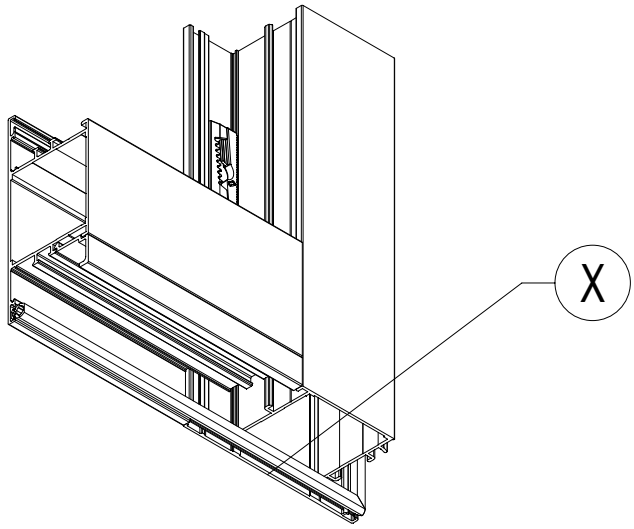
	Y MM y = 52
∠ 90°	200
∠ 100°	167
∠ 110°	122
b ≥ 900 MM → 060.7802.--	

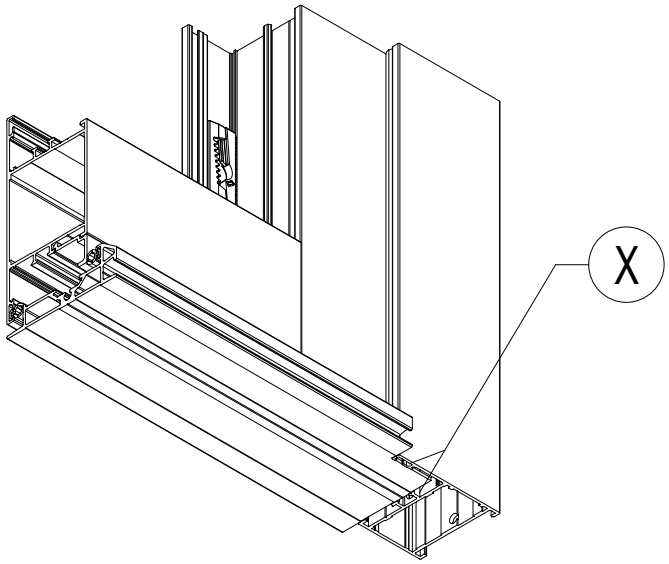


schaal - échelle
scale - Maßstab
1/2 1/5

F


010.0114.XX
060.8719.--
010.0412.XX
068.8754.00
080.8442.SY
080.8442.SY
22
050.5091.--
051.5250.--
030.3706.XX
8
43


X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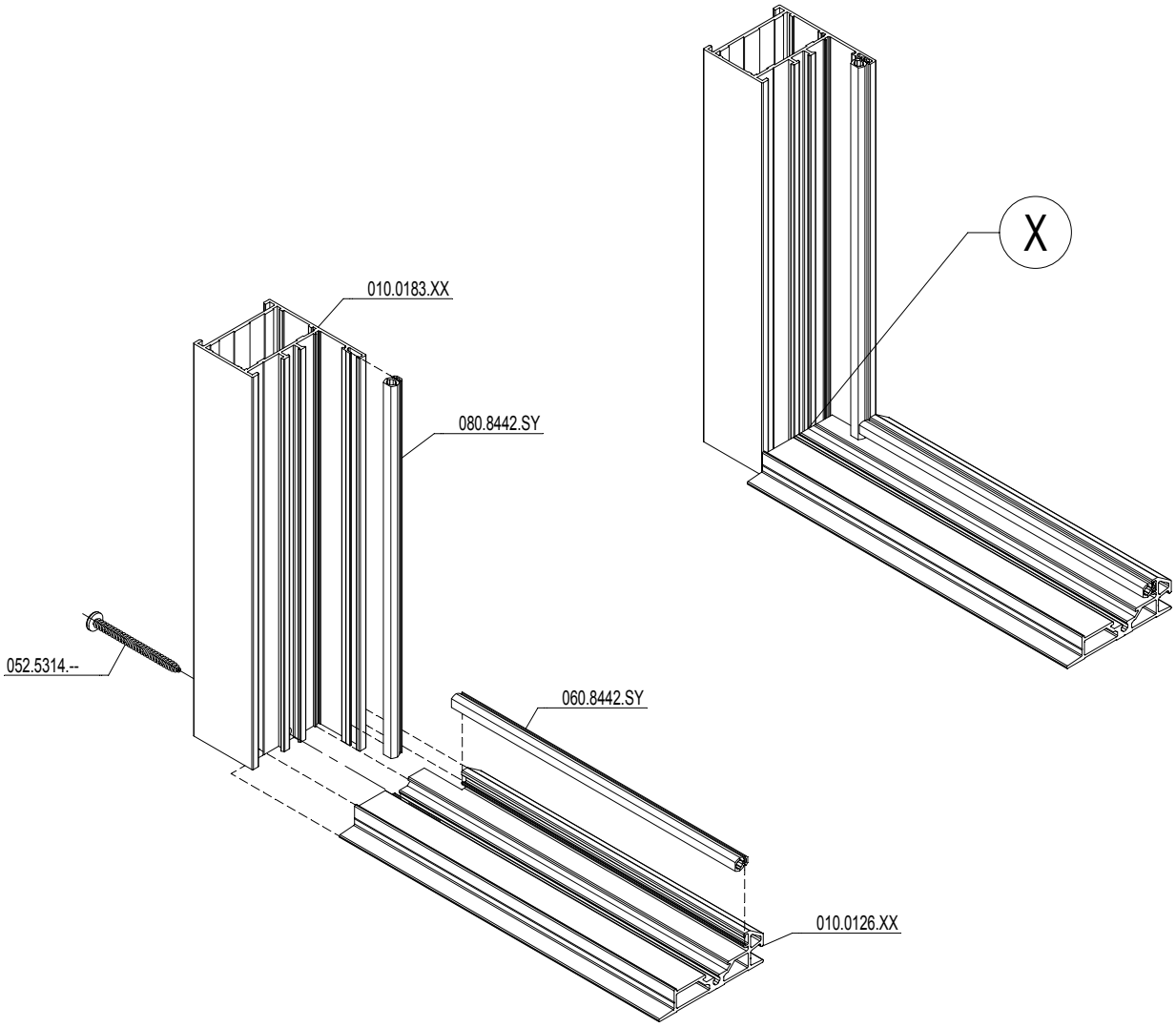
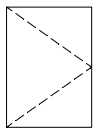


X	DICHTINGSMIDDEL MATIERE D'ETANCHEITE SEALING AGENT ABDICHTUNG

ES 45Pa

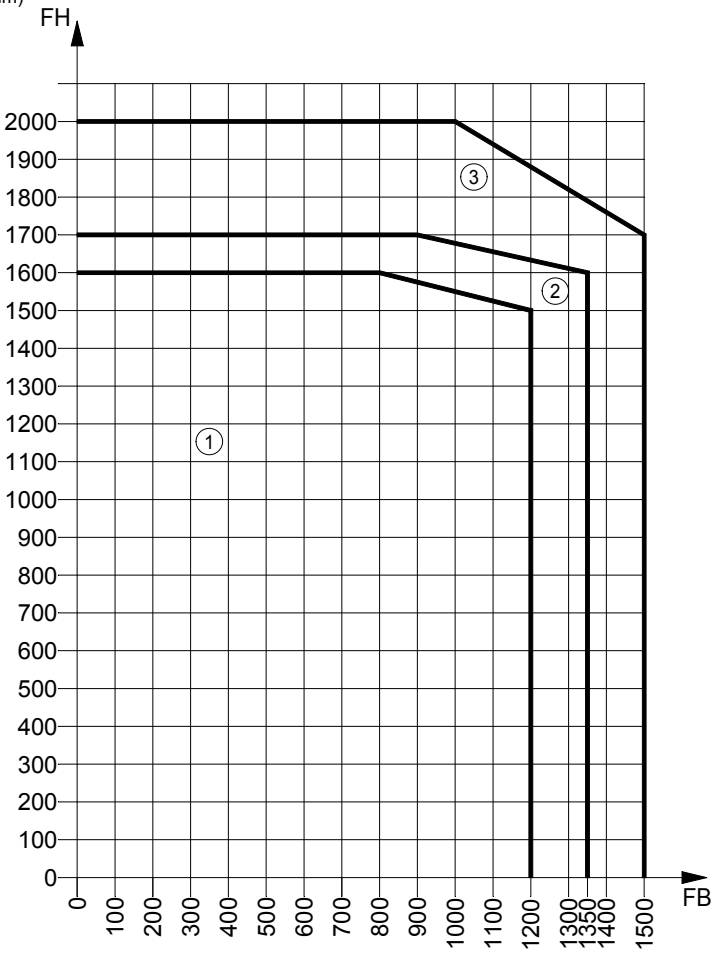
MAX. TOELAATBARE AFMETINGEN
DIMENSIONS MAX. ADMISSIBLE
MAX. ADMISSIBLE SIZES
MAX. ZULAESSIGE ABMESSUNGEN

DRAAIRAAM
FENETRE OUVRANT A LA FRANCAISE
SIDE-HUNG WINDOW
DREHFENSTER



Toebehoren: Fapim Galiplus 4
Quincaillerie: Fapim Galiplus 4
Accessories: Fapim Galiplus 4
Zubehör: Fapim Galiplus 4

Vleugelhoogte (mm)
Hauteur d' ouvrant (mm)
Vent height (mm)
Flügelhöhe (mm)



① 010.0102.XX
② 010.0192.XX
③ 010.0112.XX

Vleugelbreedte (mm)
Largeur d'ouvrant (mm)
Vent width (mm)
Flügelbreite (mm)

F

Vervorming tot 1200 Pa
Min. vleugelbreedte = 400 mm
Min. vleugelhoogte = 450 mm
Max. vleugelgewicht = 80/90/110 kg

Verformung bis 1200 Pa
Min. Flügelbreite = 400 mm
Min. Flügelhöhe = 450 mm
Höchstflügelgewicht = 80/90/110 kg

Déformation jusqu' à 1200 Pa
Largeur d' ouvrant min. = 400 mm
Hauteur d' ouvrant min. = 450 mm
Poids d' ouvrant max. = 80/90/110 kg

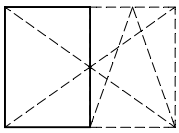
Deformation up to 1200 Pa
Min. vent width = 400 mm
Min. vent height = 450 mm
Max. vent weight = 80/90/110 kg

D0091928

ES 45Pa

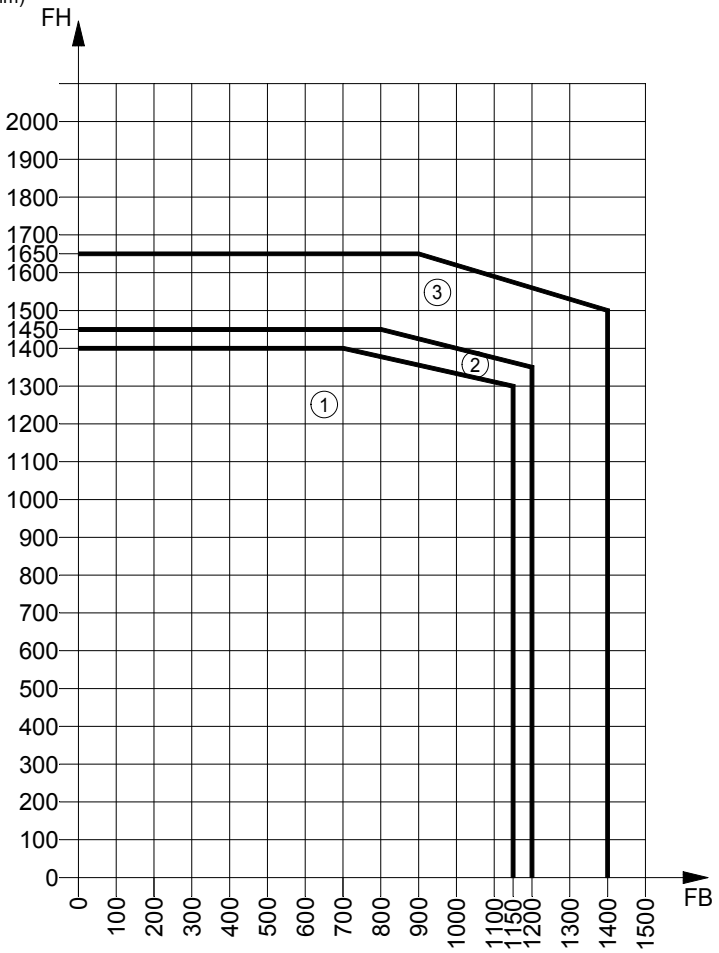
MAX. TOELAATBARE AFMETINGEN
DIMENSIONS MAX. ADMISSIBLE
MAX. ADMISSIBLE SIZES
MAX. ZULAESSIGE ABMESSUNGEN

STOLPRAAM
FENETRE DOUBLE OUVRANTE
DOUBLE CASEMENT WINDOW
STULP-DREHFENSTER



Toebehoren: Fapim Galiplus 4
Quincaillerie: Fapim Galiplus 4
Accessories: Fapim Galiplus 4
Zubehör: Fapim Galiplus 4

Vleugelhoogte (mm)
Hauteur d' ouvrant (mm)
Vent height (mm)
Flügelhöhe (mm)



① 010.0102.XX
② 010.0192.XX
③ 010.0112.XX

Vleugelbreedte (mm)
Largeur d'ouvrant (mm)
Vent width (mm)
Flügelbreite (mm)

Vervorming tot 1200 Pa
Min. vleugelbreedte = 402 mm
Min. vleugelhoogte = 450 mm
Max. vleugelgewicht = 80/90/110 kg

Verformung bis 1200 Pa
Min. Flügelbreite = 402 mm
Min. Flügelhöhe = 450 mm
Höchstflügelgewicht = 80/90/110 kg

Déformation jusqu' à 1200 Pa
Largeur d' ouvrant min. = 402 mm
Hauteur d' ouvrant min. = 450 mm
Poids d' ouvrant max. = 80/90/110 kg

Deformation up to 1200 Pa
Min. vent width = 402 mm
Min. vent height = 450 mm
Max. vent weight = 80/90/110 kg

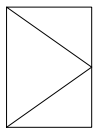
F

D0091928

ES 45Pa

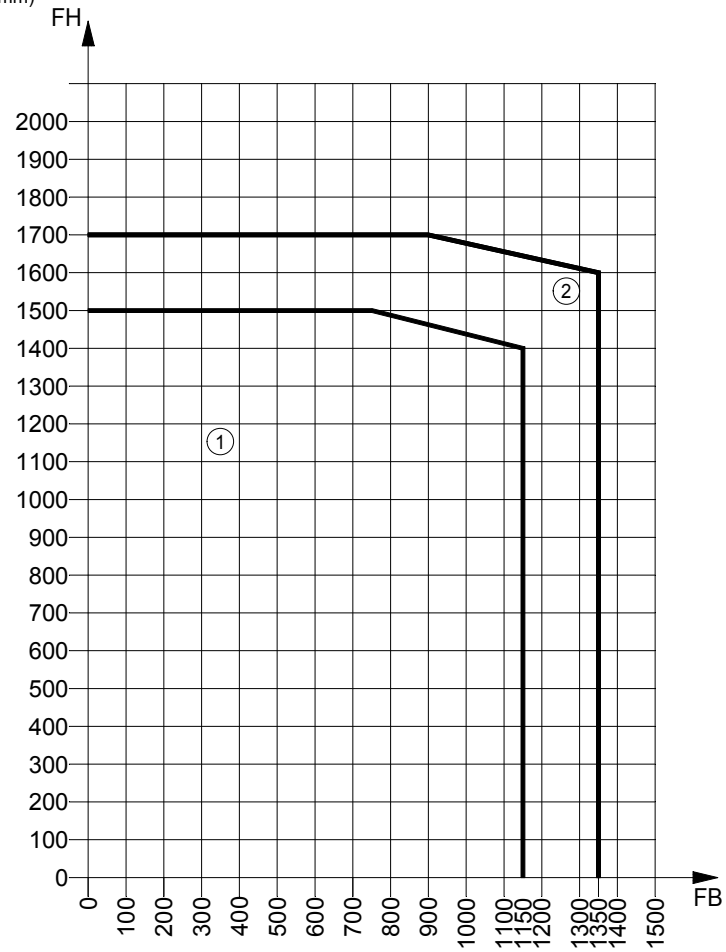
MAX. TOELAATBARE AFMETINGEN
DIMENSIONS MAX. ADMISSIBLE
MAX. ADMISSIBLE SIZES
MAX. ZULAESSIGE ABMESSUNGEN

BUITENDRAAIEND RAAM
FENETRE OUVRANT VERS L'EXTERIEUR
OUTWARD OPENING WINDOW
NACH AUSSEN OEFFNENDES FENSTER



Toebehoren: Fapim Galiplus 4
Quincaillerie: Fapim Galiplus 4
Accessories: Fapim Galiplus 4
Zubehör: Fapim Galiplus 4

Vleugelhoogte (mm)
Hauteur d' ouvrant (mm)
Vent height (mm)
Flügelhöhe (mm)



(1) 010.0492.XX

(2) 010.0412.XX

Vleugelbreedte (mm)
Largeur d'ouvrant (mm)
Vent width (mm)
Flügelbreite (mm)

F

Vervorming tot 1200 Pa
Min. vleugelbreedte = 400 mm
Min. vleugelhoogte = 500 mm
Max. vleugelgewicht = 80/90 kg

Verformung bis 1200 Pa
Min. Flügelbreite = 400 mm
Min. Flügelhöhe = 500 mm
Höchstflügelgewicht = 80/90 kg

Déformation jusqu' à 1200 Pa
Largeur d' ouvrant min. = 400 mm
Hauteur d' ouvrant min. = 500 mm
Poids d' ouvrant max. = 80/90 kg

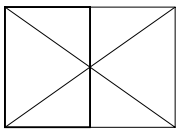
Deformation up to 1200 Pa
Min. vent width = 400 mm
Min. vent height = 500 mm
Max. vent weight = 80/90 kg

D0091929

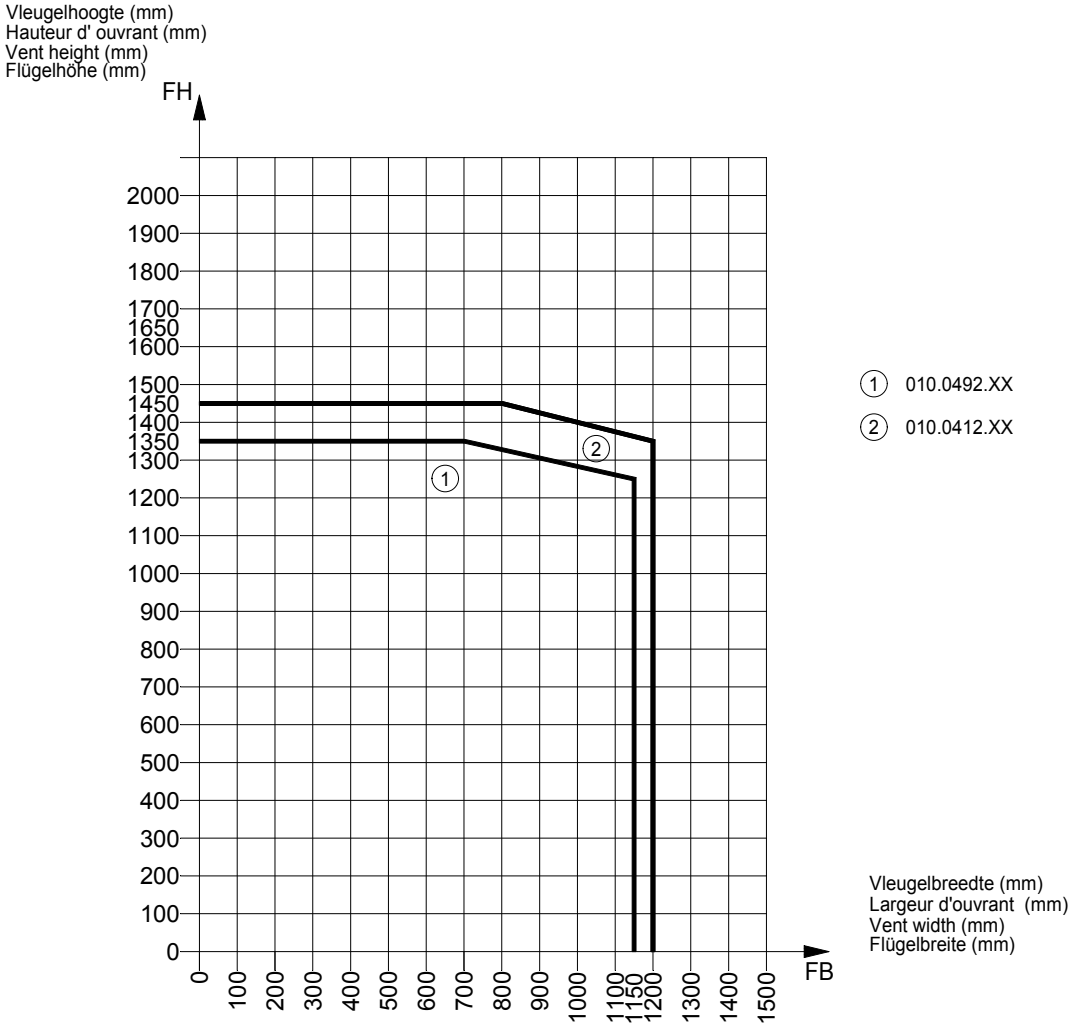
ES 45Pa

MAX. TOELAATBARE AFMETINGEN
DIMENSIONS MAX. ADMISSIBLE
MAX. ADMISSIBLE SIZES
MAX. ZULAESSIGE ABMESSUNGEN

STOLPRAAM NAAR BUITENDRAAIEND
FENETRE DOUBLE OUVRANTE OUVRANT VERS L'EXT
DOUBLE CASEMENT WINDOW OUTWARD OPENING
STULPDREHFENSTER NACH AUSSEN OEFFNEND



Toebehoren: Fapim Galiplus 4
Quincaillerie: Fapim Galiplus 4
Accessories: Fapim Galiplus 4
Zubehör: Fapim Galiplus 4



F

Vervorming tot 1200 Pa
Min. vleugelbreedte = 400 mm
Min. vleugelhoogte = 500 mm
Max. vleugelgewicht = 80/90 kg

Verformung bis 1200 Pa
Min. Flügelbreite = 400 mm
Min. Flügelhöhe = 500 mm
Höchstflügelgewicht = 80/90 kg

Déformation jusqu' à 1200 Pa
Largeur d' ouvrant min. = 400 mm
Hauteur d' ouvrant min. = 500 mm
Poids d' ouvrant max. = 80/90 kg

Deformation up to 1200 Pa
Min. vent width = 400 mm
Min. vent height = 500 mm
Max. vent weight = 80/90 kg

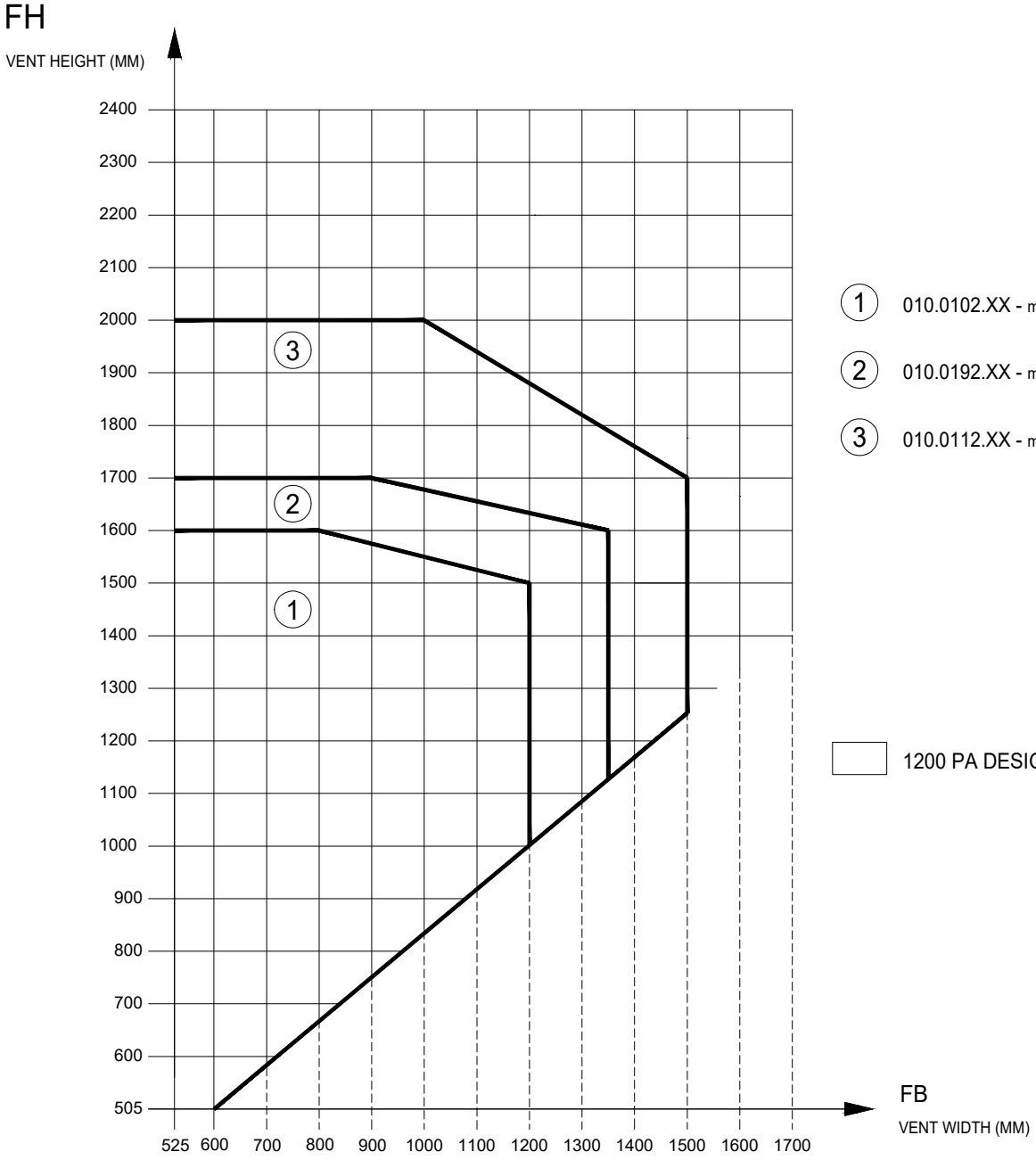
D0091929

DRAAIKIPRAAM
FENETRE OSCILLANT-BATTANTE
TURN AND TILT WINDOW
DREHKIPPFENSTER

DRAAIRAAM
FENETRE OUVRANT A LA FRANCAISE VERS L'INT
SIDE HUNG WINDOW INWARD OPENING
DREHFENSTER NACH INNEN ÖFFNENDES

TOEBEHOREN: ERRETI RINOVA GTT
ACCESSOIRES: ERRETI RINOVA GTT
ACCESSORIES: ERRETI RINOVA GTT
ZUBEHOER: ERRETI RINOVA GTT

FH



THE SPECIFIED VENT WEIGHT IS ONLY POSSIBLE WHEN THE CHOSEN ACCESSORIES CAN WITHSTAND THIS LOAD.

F

MAX. TOELAATBARE AFMETINGEN
DIMENSIONS MAX. ADMISSIBLE
MAX. ADMISSIBLE SIZES
MAX. ZULAESSIGE ABMESSUNGEN

G

Reynaers Aluminium

Toebehoren
Accessoires
Accessories
Zubehör

ES 45Pa

TOEBEHORENLIJST
LISTE DES ACCESSOIRES
LIST OF ACCESSORIES
LISTE VON ZUBEHOER

Reynaers Aluminium

Art. N°			Art. N°		
021.0238.00	02D.G.007	D2000125	068.8750.ZS	02D.G.010	D2000168
021.0240.00	02D.G.008	D2000128	068.8751.ZS	02D.G.010	D2000168
021.0241.00	02D.G.011	D2000169	068.8754.00	02D.G.010	D2000168
021.0242.00	02D.G.011	D2000169	069.6350.00	02D.G.012	D2000131
021.0250.00	02D.G.007	D2000125	069.6351.00	02D.G.012	D2000131
021.0252.00	02D.G.008	D2000128	069.6830.04	02D.G.012	D2000131
021.5146.07	02D.G.026	D2000159	069.6831.XX	02D.G.012	D2000131
022.0048.SY	02D.G.030	D2000161	080.8442.04	02D.G.030	D2000161
022.3036.04	02D.G.030	D2000161	080.9124.SY	02D.G.031	D2000162
029.5626.04	02D.G.030	D2000161	080.9125.SY	02D.G.031	D2000162
060.6653.04	02D.G.026	D2000159	080.9126.SY	02D.G.032	D2000194
060.7054.XX	02D.G.026	D2000159	080.9128.SY	02D.G.032	D2000194
060.7170.–	02D.G.022	D2000142	080.9659.04	02D.G.030	D2000161
060.8266.XX	02D.G.013	D0091882	080.9746.04	02D.G.030	D2000161
060.8267.XX	02D.G.013	D0091882	081.9141.04	02D.G.029	D2000160
060.8719.–	02D.G.009	D2000130	084.9063.XX	02D.G.035	D0067542
060.8736.00	02D.G.009	D2000130	084.9080.–	02D.G.035	D0067542
060.8800.04	02D.G.024	D2000157	084.9086.–	02D.G.035	D0067542
060.8801.04	02D.G.024	D2000157	084.9107.–	02D.G.036	D0067543
060.8802.–	02D.G.024	D2000157	084.9108.04	02D.G.036	D0067543
060.8803.–	02D.G.024	D2000157	084.9110.–	02D.G.036	D0067543
060.8804.–	02D.G.024	D2000157	084.9111.–	02D.G.036	D0067543
060.8805.–	02D.G.021	D2000141	084.9115.04	02D.G.036	D0067543
060.8806.–	02D.G.021	D2000141	084.9210.01	02D.G.049	D0067896
060.8808.–	02D.G.025	D2000158	084.9380.04	02D.G.037	D0067544
060.8809.–	02D.G.025	D2000158	084.9399.04	02D.G.037	D0067544
060.8810.–	02D.G.022	D2000142	084.9480.–	02D.G.037	D0067544
060.8811.–	02D.G.025	D2000158	084.9501.01	02D.G.041	D0067888
060.8812.–	02D.G.025	D2000158	084.9520.01	02D.G.041	D0067888
060.8813.–	02D.G.025	D2000158	084.9525.01	02D.G.041	D0067888
060.8818.–	02D.G.027	D2000179	084.9530.01	02D.G.041	D0067888
060.8823.–	02D.G.027	D2000179	084.9535.01	02D.G.041	D0067888
060.8824.–	02D.G.027	D2000179	084.9540.01	02D.G.042	D0067889
060.8825.–	02D.G.027	D2000179	084.9545.01	02D.G.042	D0067889
060.8826.04	02D.G.028	D2000180	084.9550.01	02D.G.042	D0067889
060.8827.PA	02D.G.018	D2000138	084.9555.01	02D.G.042	D0067889
060.8828.–	02D.G.028	D2000180	084.9560.01	02D.G.042	D0067889
060.8829.04	02D.G.028	D2000180	084.9565.01	02D.G.043	D0067890
060.8830.–	02D.G.023	D2000181	084.9570.01	02D.G.043	D0067890
060.8831.–	02D.G.023	D2000181	084.9575.01	02D.G.043	D0067890
060.8832.–	02D.G.023	D2000181	084.9580.01	02D.G.043	D0067890
060.8833.–	02D.G.023	D2000181	084.9585.01	02D.G.043	D0067890
060.8834.ZC	02D.G.017	D2000135	084.9590.01	02D.G.044	D0067891
060.8835.ZC	02D.G.017	D2000135	084.9635.01	02D.G.045	D0067892
060.8836.–	02D.G.017	D2000135	084.9640.01	02D.G.045	D0067892
060.8837.–	02D.G.017	D2000135	084.9645.01	02D.G.045	D0067892
060.8838.–	02D.G.028	D2000180	084.9650.01	02D.G.045	D0067892
060.8839.–	02D.G.016	D2000134	084.9655.01	02D.G.045	D0067892
060.8850.PA	02D.G.014	D2000132	084.9660.01	02D.G.046	D0067893
060.8851.PA	02D.G.014	D2000132	084.9665.01	02D.G.046	D0067893
060.8852.PA	02D.G.014	D2000132	084.9670.01	02D.G.046	D0067893
060.8853.PA	02D.G.014	D2000132	084.9675.01	02D.G.046	D0067893
060.8854.PA	02D.G.015	D2000133	084.9680.01	02D.G.046	D0067893
060.8905.–	02D.G.021	D2000141	084.9685.01	02D.G.047	D0067894
060.8906.–	02D.G.021	D2000141	084.9690.01	02D.G.047	D0067894
060.8907.–	02D.G.021	D2000141	084.9700.01	02D.G.044	D0067891
060.8911.–	02D.G.028	D2000180	084.9700.01	02D.G.047	D0067894
060.8922.–	02D.G.022	D2000142	084.9705.01	02D.G.044	D0067891
061.7035.–	02D.G.018	D2000138	084.9705.01	02D.G.047	D0067894
061.7044.–	02D.G.018	D2000138	084.9710.01	02D.G.044	D0067891
061.7097.–	02D.G.016	D2000134	084.9710.01	02D.G.047	D0067894
061.8725.00	02D.G.020	D2000140	084.9715.01	02D.G.044	D0067891
065.6510.XX	02D.G.020	D2000140	084.9720.01	02D.G.048	D0067895
065.6511.XX	02D.G.020	D2000140	084.9750.01	02D.G.048	D0067895
065.8290.–	02D.G.019	D2000139	084.9760.01	02D.G.048	D0067895
065.8460.XX	02D.G.019	D2000139	084.9799.01	02D.G.048	D0067895
065.8475.XX	02D.G.019	D2000139	084.9810.01	02D.G.049	D0067896
068.6820.00	02D.G.010	D2000168	084.9815.01	02D.G.049	D0067896
068.8082.00	02D.G.007	D2000125	084.9820.01	02D.G.049	D0067896
068.8280.00	02D.G.007	D2000125	084.9850.01	02D.G.049	D0067896

ES 45Pa

TOEBEHORENLIJST
LISTE DES ACCESSOIRES
LIST OF ACCESSORIES
LISTE VON ZUBEHOER

Reynaers Aluminium

Art. N°			Art. N°		
086.9150.–	02D.G.037	D0067544			
086.9160.–	02D.G.037	D0067544			
086.9175.–	02D.G.038	D0067545			
086.9208.SY	02D.G.040	D2000192			
086.9210.–	02D.G.038	D0067545			
086.9211.–	02D.G.038	D0067545			
086.9212.–	02D.G.039	D0067547			
086.9213.–	02D.G.039	D0067547			
086.9225.–	02D.G.040	D2000192			
086.9551.–	02D.G.039	D0067547			
086.9600.XX	02D.G.039	D0067547			
086.9612.XX	02D.G.040	D2000192			

ES 45Pa

MACHINELIJST
LISTE DES MACHINES
LIST OF MACHINERY
LISTE VON MASCHINEN

Reynaers Aluminium

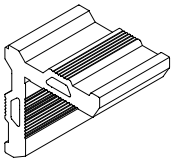
Art. N°			Art. N°		
095.B532.00	02D.G.056	D2000185			
095.B533.00	02D.G.056	D2000185			
095.B562.00	02D.G.058	D2000167			
095.C500.00	02D.G.052	D2000183			
095.C600.00	02D.G.052	D2000183			
095.C700.00	02D.G.052	D2000183			
095.E300.00	02D.G.061	D0079031			
095.E400.00	02D.G.061	D0079031			
095.E500.00	02D.G.061	D0079031			
095.H810.00	02D.G.055	D2000166			
095.H853.00	02D.G.059	D2000190			
097.0076.00	02D.G.054	D2000165			
097.0078.00	02D.G.051	D2000164			
097.0078.00	02D.G.054	D2000165			
097.0080.00	02D.G.054	D2000165			
097.0383.00	02D.G.050	D2000163			
097.0637.00	02D.G.050	D2000163			
097.0645.00	02D.G.051	D2000164			
097.0754.00	02D.G.060	D2000191			
097.C000.00	02D.G.057	D2000186			
097.D300.00	02D.G.057	D2000186			
097.Q400.00	02D.G.053	D2000184			
097.Q500.00	02D.G.053	D2000184			
097.Y000.00	02D.G.062	D0091888			

MACHINELIJST
LISTE DES MACHINES
LIST OF MACHINERY
LISTE VON MASCHINEN

ES 45Pa

OVERZICHT
APERCU
OVERVIEW
UEBERSICHT

021.0238.00 (02D.G.007)



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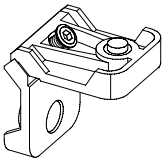

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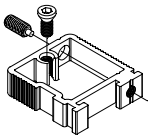

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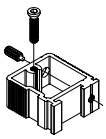

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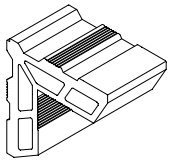

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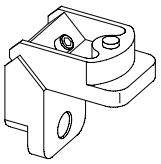
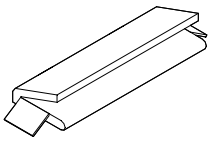
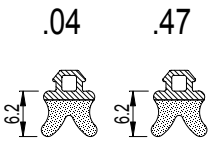


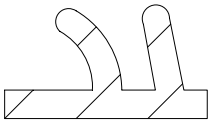
021.5146.07 (02D.G.026)



022.0048.SY (02D.G.030)



022.3036.04 (02D.G.030)



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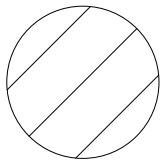

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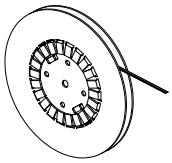

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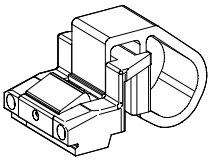
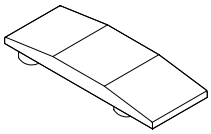
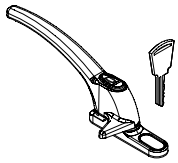


060.7170.-- (02D.G.022)

060.8263.04 (02D.G.013)



060.8266.XX (02D.G.013)



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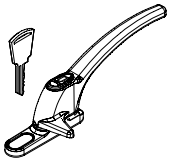
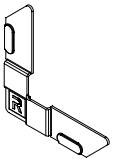
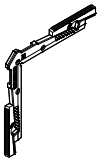


060.8719.-- (02D.G.009)



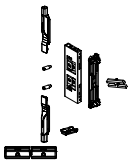
060.8736.00 (02D.G.009)



060.8800.04 (02D.G.024)

060.8801.04 (02D.G.024)

060.8802.-- (02D.G.024)



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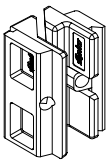
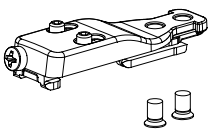


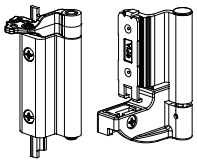
060.8804.-- (02D.G.024)



060.8805.-- (02D.G.021)

060.8806.-- (02D.G.021)

060.8807.XX (02D.G.019)



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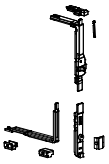
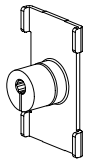


060.8809.-- (02D.G.025)

060.8810.-- (02D.G.022)

060.8811.-- (02D.G.025)

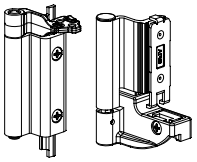


060.8812.-- (02D.G.025)

060.8813.-- (02D.G.025)

060.8814.-- (02D.G.027)

060.8817.XX (02D.G.019)



060.8818.-- (02D.G.027)

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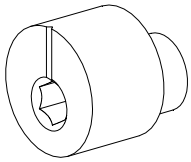
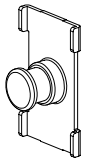
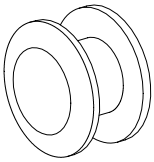
060.8823.-- (02D.G.027)	060.8824.-- (02D.G.027)	060.8825.-- (02D.G.027)	060.8826.04 (02D.G.028)	060.8827.PA (02D.G.018)
				
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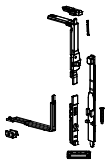	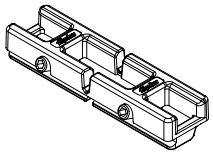	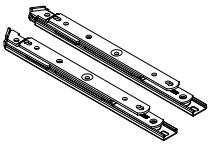		
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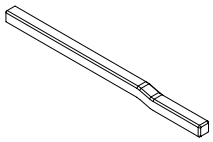
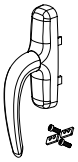
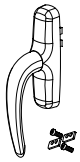
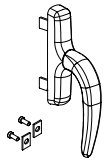
060.8838.-- (02D.G.028)	060.8839.-- (02D.G.016)	060.8850.PA (02D.G.014)	060.8851.PA (02D.G.014)	060.8852.PA (02D.G.014)
				
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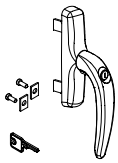	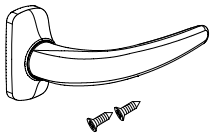	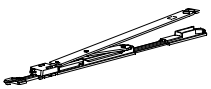		
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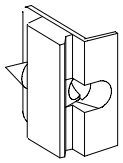		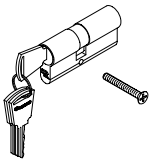	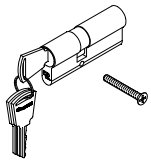	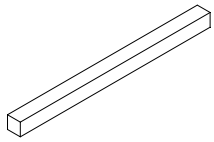
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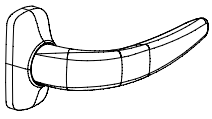	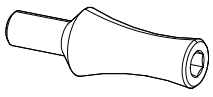	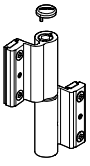	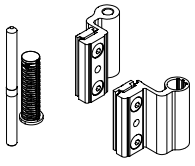	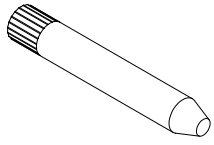

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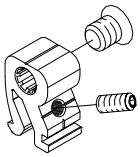
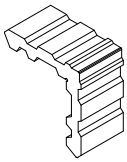
068.6820.00 (02D.G.010)



068.8082.00 (02D.G.007)



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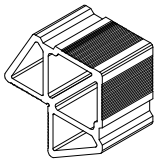

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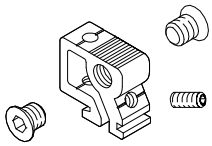
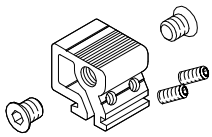


068.8751.00 (02D.G.010)



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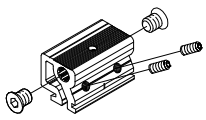
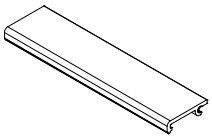


069.6350.00 (02D.G.012)



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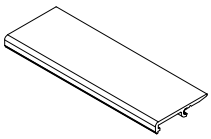
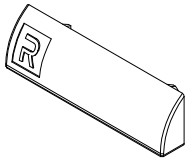
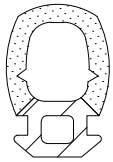


069.6831.XX (02D.G.012)

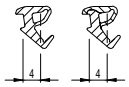


080.8442.04 (02D.G.030)



080.9124.SY (02D.G.031)

.04 .47
.N4 .N7



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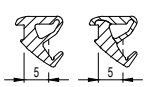
.N4 .N7



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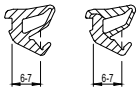
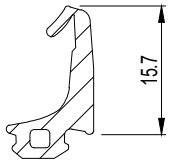
.04 .47
.N4 .N7



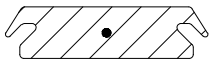
080.9128.SY (02D.G.032)

.04
.N4

080.9659.04 (02D.G.030)



080.9746.04 (02D.G.030)

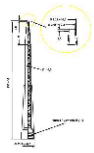


081.9141.04 (02D.G.029)

084.9063.XX (02D.G.035)

084.9080.-- (02D.G.035)

084.9086.-- (02D.G.035)

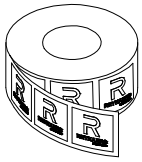


084.9103.04 (02D.G.036)

084.9110.-- (02D.G.036)

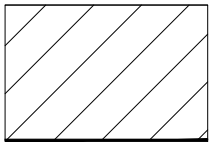
084.9111.-- (02D.G.036)

084.9210.01 (02D.G.049)

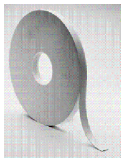


084.9380.-- (02D.G.037)

084.9399.04 (02D.G.037)

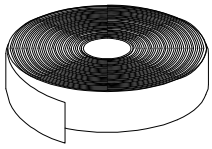


084.9480.-- (02D.G.037)

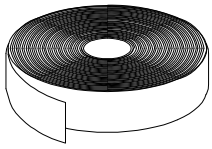


084.9501.01 (02D.G.041)

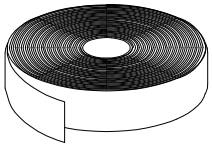
084.9520.01 (02D.G.041)



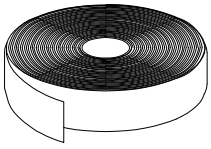
084.9525.01 (02D.G.041)



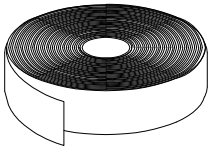
084.9530.01 (02D.G.041)



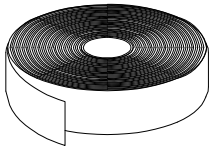
084.9535.01 (02D.G.041)



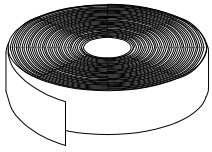
084.9540.01 (02D.G.042)



084.9545.01 (02D.G.042)



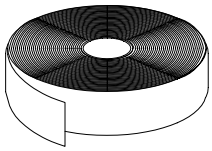
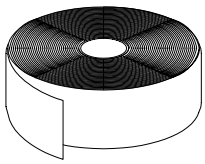
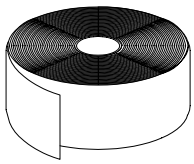
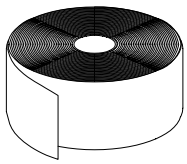
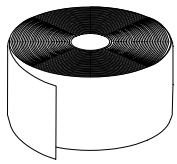
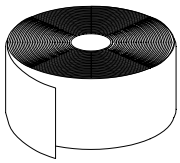
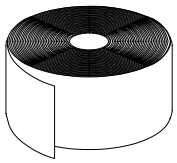
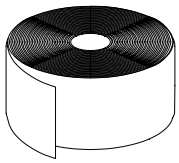
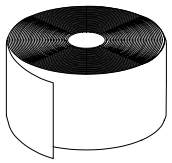
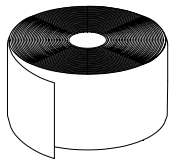
084.9550.01 (02D.G.042)



ES 45Pa

OVERZICHT
APERCU
OVERVIEW
UEBERSICHT

Reynaers Aluminium

084.9555.01 (02D.G.042)	084.9560.01 (02D.G.042)	084.9565.01 (02D.G.043)	084.9570.01 (02D.G.043)	084.9575.01 (02D.G.043)
				
084.9580.01 (02D.G.043)	084.9585.01 (02D.G.043)	084.9590.01 (02D.G.044)	084.9700.01 (02D.G.044)	084.9700.01 (02D.G.047)
				
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		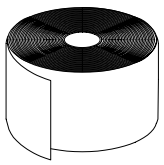		
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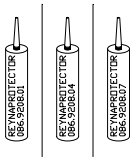
086.9208.SY (02D.G.040)	086.9210.-- (02D.G.038)	086.9211.-- (02D.G.038)	086.9212.-- (02D.G.039)	086.9213.-- (02D.G.039)
				
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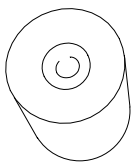				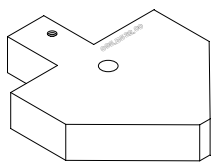
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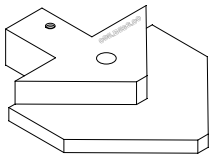
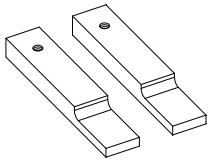
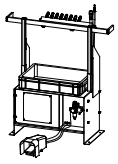
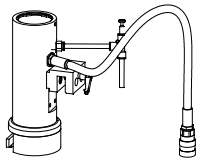
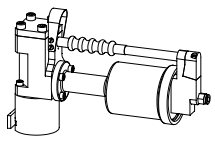
				

D0091894

G

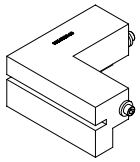
095.D000.00 (02D.G.058)

095.E300.00 (02D.G.061)

095.E400.00 (02D.G.061)

095.E500.00 (02D.G.061)

095.H810.00 (02D.G.055)



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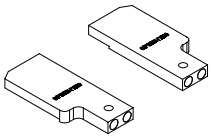

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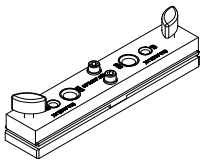

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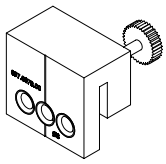

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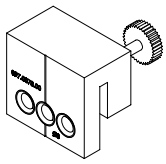

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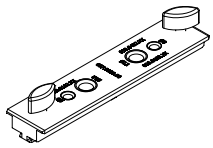

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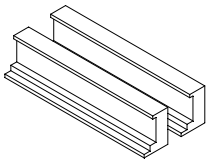

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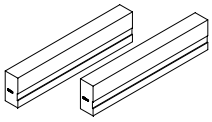

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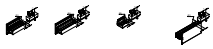

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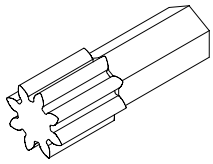
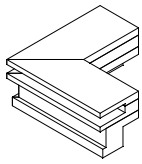


097.C000.00 (02D.G.057)



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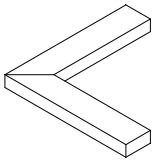

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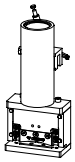

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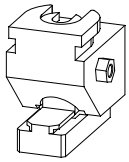

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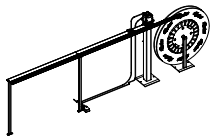
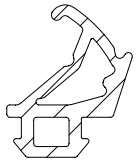
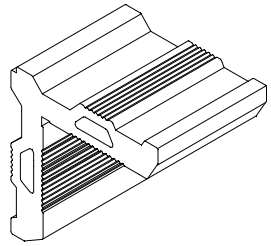


180.8204.04 (02D.G.031)



D0091896



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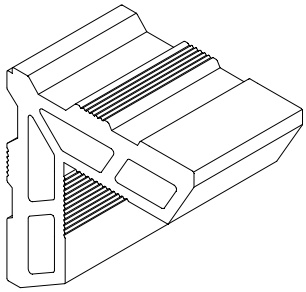
B=53.15
D=40.6

021.0238.00

PERSHOEK 12x40
EQUERRE A SERTIR 12x40
CRIMP CORNER CLEAT 12x40
PRESSECKWINKEL 12x40

ES 45Pa
010.0102.XX
010.0113.XX
010.0136.XX

HIFI
CP 45Pa
CW 60-HL
CS 45Pa



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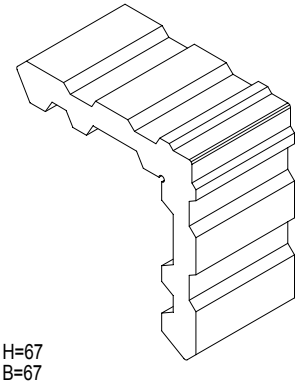
B=70
D=40.6

021.0250.00

PERSHOEK 22x40
EQUERRE A SERTIR 22x40
CRIMP CORNER CLEAT 22x40
PRESSECKWINKEL 22x40

ES 45Pa
010.0120.XX
010.0140.XX
010.0183.XX
010.0192.XX
010.0492.XX

HIFI
CS 45Pa
CD 45Pa



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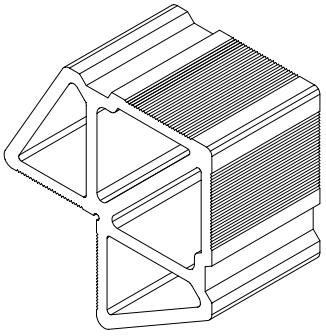
068.8082.00

PERSHOEK 12.8x36.9MM
EQUERRE A SERTIR 12.8x36.9MM
CRIMP CORNER CLEAT 12.8x36.9MM
PRESSECKWINKEL 12.8x36.9MM

ES 45Pa
010.1101.XX



H=77.7
B=77.7
D=40.4

068.8280.00

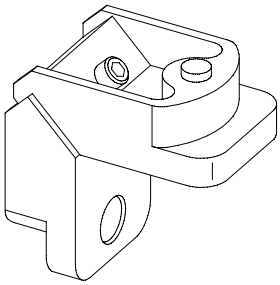
PERSHOEK 43.2x40.4MM
EQUERRE A SERTIR 43.2x40.4MM
CRIMP CORNER CLEAT 43.2x40.4MM
PRESSECKWINKEL 43.2x40.4MM

ES 45Pa
010.0112.XX
010.0114.XX
010.0412.XX

ES 45Pa

SCHROEFHOEK
EQUERRE A VISSER
SCREW CORNER CLEAT
SCHRAUBECKWINKEL

Reynaers Aluminium



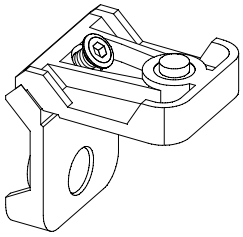
H=53
B=53
D=40

021.0240.00

SCHROEFHOEK MET PEN 12x40
EQUERRE A VISSER A PION 12x40
SCREW CORNER CLEAT WITH PEG 12x40
SCHRAUBECKWINKEL MIT STIFT 12x40

ES 45Pa
010.0102.XX
010.0136.XX

HIFI
CP 45Pa
CW 60-HL
CS 45Pa
CD 45Pa



H=63
H=63
H=40

021.0252.00

SCHROEFHOEK MET PEN 22x40
EQUERRE A VISSER A PION 22x40
SCREW CORNER CLEAT WITH PEG 22x40
SCHRAUBECKWINKEL MIT STIFT 22x40

ES 45Pa
010.0140.XX
010.0183.XX
010.0192.XX
010.0492.XX

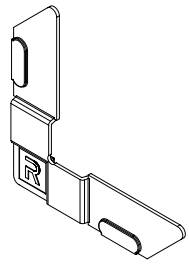
HIFI
CS 45Pa
CD 45Pa

D2000128

G

ES 45Pa

STEUNHOEK
CALE DE FEUILLURE
REBATE SUPPORT
ECKWINKEL

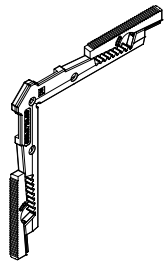


H=63.3
B=63.3
D=1.8

060.8719.--

STEUNHOEK
CALE DE FEUILLURE
REBATE SUPPORT
ECKWINKEL

ES 45Pa	Eco system-AP
010.0102.XX	Eco system 75
010.0112.XX	
010.0113.XX	CS 68 Optima
010.0114.XX	CS 68 Optima-AP
010.0120.XX	
010.0136.XX	
010.0140.XX	
010.0183.XX	
010.0192.XX	
010.0412.XX	
010.0492.XX	
010.0813.XX	
010.1101.XX	
Eco system	



H=87 B=3.8 D=87
USE FIXATION TOOL 097.0754.00

060.8736.00

HOEKSTUK
PIECE D'ANGLE
CORNER PIECE
ECKSTUECK

ES 45Pa	CP 130
010.0102.XX	Eco system
010.0112.XX	CS 86-HI
010.0113.XX	Eco system-AP
010.0114.XX	Eco system Optima
010.0120.XX	VENTALIS
010.0136.XX	Eco system 75
010.0140.XX	
010.0183.XX	Eco PL
010.0192.XX	
010.0412.XX	
010.0492.XX	
010.0813.XX	
010.1101.XX	
CS 59	

D2000130

G

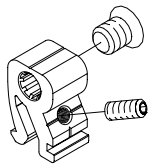
ES 45Pa

T-VERBINDER
JONCTION-T
T-BRACKET
T-VERBINDER

Reynaers Aluminium

068.6820.00

T-VERBINDER 12.9MM
JONCTION-T 12.9MM
T-BRACKET 12.9MM
T-VERBINDER 12.9MM



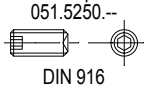
H=10.6
B=7
D=12.9

ES 45Pa
010.0813.XX

Eco system
Eco system-AP

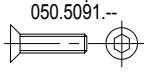
Eco PL

st./pc
051.5250.--



DIN 916
M5 x 10

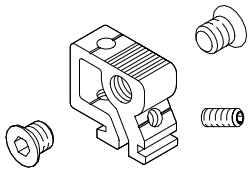
st./pc
050.5091.--



-
M8 x 10

068.8750.00

T-VERBINDER 12MM
JONCTION-T 12MM
T-BRACKET 12MM
T-VERBINDER 12MM

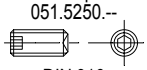


H=26.2
B=25.5
D=12

ES 45Pa
010.0113.XX
010.0136.XX

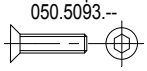
TP 110

1 st./pc
051.5250.--



DIN 916
M5 x 10

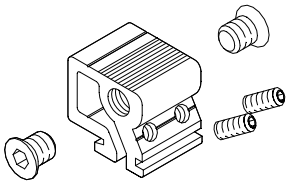
2 st./pc
050.5093.--



-
M8 x 8

068.8751.00

T-VERBINDER 22MM
JONCTION-T 22MM
T-BRACKET 22MM
T-VERBINDER 22MM

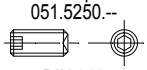


H=26.2
B=25.5
D=22

ES 45Pa
010.0120.XX
010.0140.XX
010.0183.XX

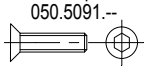
TP 110

2 st./pc
051.5250.--



DIN 916
M5 x 10

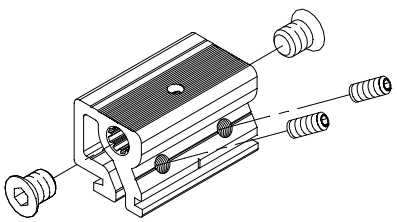
st./pc
050.5091.--



-
M8 x 10

068.8754.00

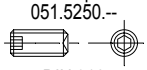
T-VERBINDER 43.3MM
JONCTION-T 43.3MM
T-BRACKET 43.3MM
T-VERBINDER 43.3MM



H=26.6
B=25.1
D=43.3

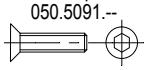
ES 45Pa
010.0114.XX

2 st./pc
051.5250.--



DIN 916
M5 x 10

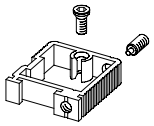
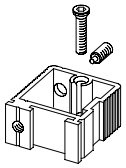
2 st./pc
050.5091.--

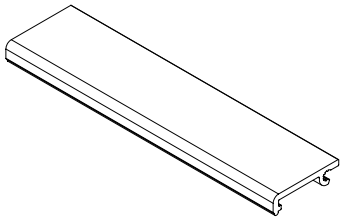
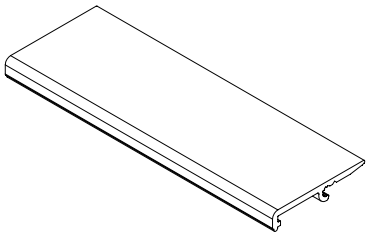
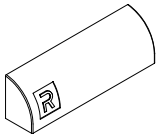
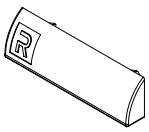


-
M8 x 10

D2000168

G

 H=12 B=41 D=44.7	021.0241.00 T-VERBINDER 40x12 JONCTION-T 40x12 T-BRACKET 40x12 T-VERBINDER 40x12	ES 45Pa 010.0136.XX HIFI CS 45Pa CP 45Pa		
 H=21.8 B=41 D=44.7	021.0242.00 T-VERBINDER 40x22 JONCTION-T 40x22 T-BRACKET 40x22 T-VERBINDER 40x22	ES 45Pa 010.0183.XX HIFI CS 45Pa CD 45Pa		

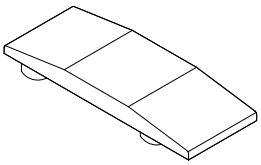
 H=6.5 B=100 D=24.5	069.6350.00 GLASSTEUN 24.5MM SUPPORT CALE DE VITRAGE 24.5MM GLASS SUPPORT 24.5MM GLASAUFLAGEPROFIL 24.5MM		ES 45Pa	
 H=6.5 B=100 D=34.5	069.6351.00 GLASSTEUN 34.5MM SUPPORT CALE DE VITRAGE 34.5MM GLASS SUPPORT 34.5MM GLASAUFLAGEPROFIL 34.5MM		ES 45Pa	
 H=14 B=10 D=46	069.6830.04 AFDEKKAP WATERAFVOERSLEUVEN CAPUCHON DRAINAGE D'EAU WEEP HOLE COVER ABDECKKAPPE ENTWAESSERUNG		CP 130 CP 45Pa CP 45Pa (GR) CP 155 CP 155-LS HFP 147 HFP 179 CP 96 CF 68	
 H=13 B=44 D=11.3	069.6831.XX AFDEKKAP WATERAFVOERSLEUVEN CAPUCHON DRAINAGE D'EAU WEEP HOLE COVER ABDECKKAPPE ENTWAESSERUNG		CS 59Pa CS 59Pa-AD CS 59Pa-CD CS 59Pa-SD CS 59 CS 59-HV CS 59-Re CS 59-So CS 59-AD CS 59-CD CS 59-SD CS 68 CS 68-HV CS 68-Re CS 68-So TP 110	TLS 110 CP 130 CP 130-LS CP 155 CP 155-LS HFP 147 HFP 179 CS 68-FP CS 77 CS 77-HV CS 59Pa-AP CS 59-AP CS 68-AP CS 77-AP CS 77-BP CS 77-FP

D2000131

ES 45Pa

RAAM NAAR BUITENDRAAIEND MET ENGELSE KRUK
FENETRE OUVRANT VERS L'EXT. A BEQUILLE ANGL.
SIDE-HUNG WINDOW OUTWARD OPENING WITH COCKSPUR HANDLE
DREHFENSTER NACH AUSSEN OEFFNEND MIT ENGL. GRIFF

Reynaers Aluminium

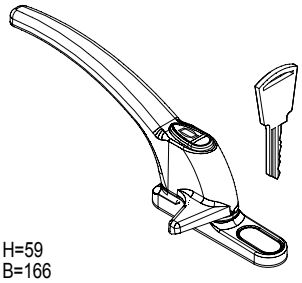


H=3
B=46
D=16

060.8263.04

OPLOOPBLOK KUNSTSTOF
PATIN MATIERE SYNTHETIQUE
SLOPED BLOCK SYNTHETIC
AUFLAUFSTUECK KUNSTSTOFF

CS 68
CS 38-SL
CS 24-SL
ES 45Pa



H=59
B=166
D=41.5

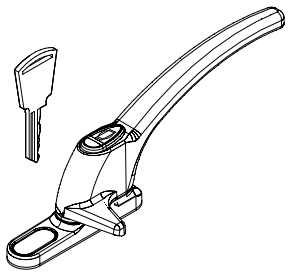
060.8266.XX

RAAMPOMP RAAM NAAR BUITENDRAAIEND RECHTS
CREMONE FENETRE OUVRANT VERS L'EXT. DROITE
HANDLE WINDOW OUTWARD OPENING RIGHT
HANDHEBEL FENSTER NACH AUSSEN OEFFNEND RECHTS

CS 59
CS 68
CS 77
ES 50
CS 38-SL
CS 24-SL
ES 45Pa
SL 38

4 st./pc
052.5317.--

DIN 7981
4.2 x 13



H=59
B=41.5
D=166

060.8267.XX

RAAMPOMP RAAM NAAR BUITENDRAAIEND LINKS
CREMONE FENETRE OUVRANT VERS L'EXT. GAUCHE
HANDLE WINDOW OUTWARD OPENING LEFT
HANDHEBEL FENSTER NACH AUSSEN OEFFNEND LINKS

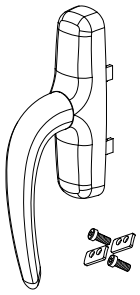
CS 59
CS 68
CS 77
ES 50
CS 38-SL
CS 24-SL
ES 75
ES 45Pa

4 st./pc
052.5317.--

DIN 7981
4.2 x 13

D0091882

G

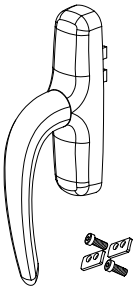


H=180
B=31
D=68

060.8850.PA

RAAMPOMP DR-VR
CREMONE FO-FS
HANDLE SH-BH
HANDHEBEL DF-KF

CS 59Pa
CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 77
CS 77-HV
Eco system
CS 38-SL
CS 77-Re
ES 45Pa

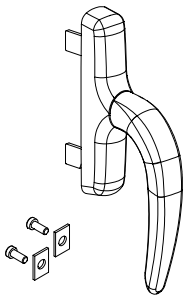


H=182
B=34
D=68

060.8851.PA

RAAMPOMP DK-KD
CREMONE OB-BO
HANDLE TUTI-TITU
HANDHEBEL DK-KD

CS 59Pa
CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 77
CS 77-HV
Eco system
CS 38-SL
CS 77-Re
ES 45Pa

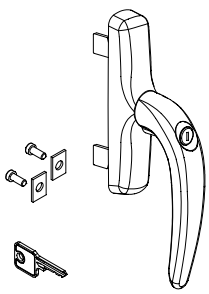


H=130
B=72
D=27

060.8852.PA

RAAMPOMP BUITENDRAAIEND
CREMONE OUVRANT VERS L'EXTERIEUR
HANDLE OUTWARD OPENING
HANDHEBEL NACH AUSSEN OEFFNEND

ES 45Pa



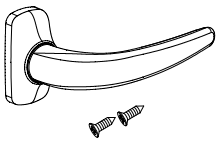
H=130
B=72
D=27

060.8853.PA

RAAMPOMP BUITENDRAAIEND
CREMONE OUVRANT VERS L'EXTERIEUR
HANDLE OUTWARD OPENING
HANDHEBEL NACH AUSSEN OEFFNEND

ES 45Pa

D2000132



H=65
B=63
D=133

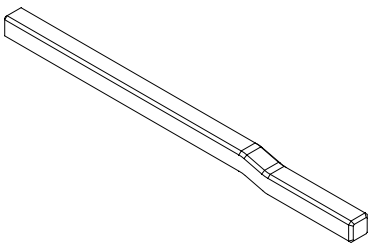
060.8854.PA

DEURKRUK
BEQUILLE
DOOR HANDLE
TUERDRUECKER

CS 59Pa
CS 59
CS 59-Re
CS 59-So
CS 68
CS 68-Re
CS 68-So
CS 77
Eco system
CS 38-SL
CS 77-Re
ES 45Pa

ES 45Pa

VIERKANTSTIFT
TIGE
SPINDLE
DRUCKERSTIFT

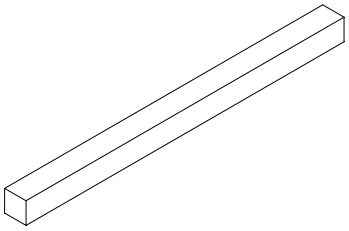


H=10.5
B=150
D=8

060.8839.--

VIERKANTSTIFT
TIGE
SPINDLE
DRUCKERSTIFT

ES 45Pa



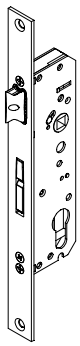
H=8
B=8
D=119

061.7097.--

VIERKANTSTIFT 8MM L=119MM
TIGE 8MM L=119MM
SPINDLE 8MM L=119MM
DRUCKERSTIFT 8MM L=119MM

CS 59Pa
CS 59
CS 68
CS 77
CS 77-BP
Eco system
CF 77
CF 77-AP
ES 45Pa

D2000134



H=280 B=23.5 D=49.5
U=21.5 X=85 P=35

060.8834.ZC

1-PUNTSLUITING
FERMETURE A 1 POINT
1-POINT LOCK
1-FACHVERRIEGELUNG

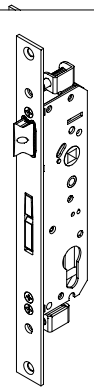
ES 45Pa
010.0183.XX
010.0112.XX

010.0183.XX
010.0412.XX

010.0112.XX
010.0115.XX
010.0112.XX

010.0412.XX
010.0115.XX
010.0412.XX

2 st./pc
052.5316.--
DIN 7982
4.2 x 19



H=280 B=23.5 D=49.5
U=21.5 X=85 P=35

060.8835.ZC

KRUKBEDIEND MEERPUNTSLUITING
FERMETURE A MULTI POINTS DE RELEVAGE
HANDLE OPERATED MULTIPOINT LOCK
MULTIFACHVERRIEGELUNG MIT DRUCKERBETATIGUNG

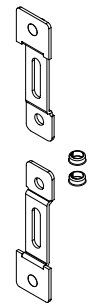
ES 45Pa
010.0183.XX
010.0112.XX

010.0183.XX
010.0412.XX

010.0112.XX
010.0115.XX
010.0112.XX

010.0412.XX
010.0115.XX
010.0412.XX

2 st./pc
052.5316.--
DIN 7982
4.2 x 19



H=72.5 B=22 D=7.3
USED WITH 060.8835.ZC

060.8836.--

KOPPELSTUK
PIECE DE RACCORDEMENT
CONNECTION PIECE
KUPPLUNGSSTUECK

ES 45Pa
060.8835.ZC

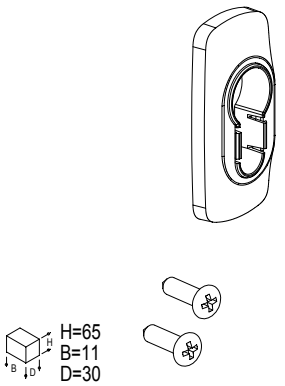
H=170
B=20
D=20

060.8837.--

DUBBEL SLOTPAD
GACHE DOUBLE
DOUBLE RECEIVER
DOPPELTES SCHLIESSBLECH

ES 45Pa

D2000135

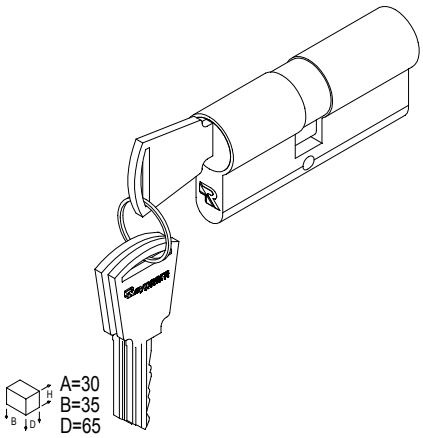


H=65
B=11
D=30

060.8827.PA

CILINDERPLAAT
ECUSSON
CYLINDER COVER
PZ-ROZETTE

CS 59Pa
CS 59
CS 59-Re
CS 59-So
CS 68
CS 68-Re
CS 68-So
CS 77
Eco system
CS 38-SL
CS 77-Re
ES 45Pa

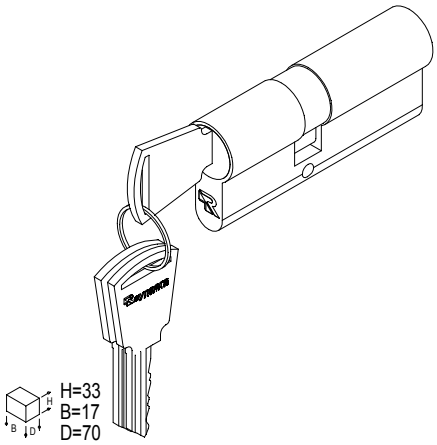


A=30
B=35
D=65

061.7035.--

CILINDER 65MM A=30 B=35
CYLINDRE 65MM A=30 B=35
CYLINDER 65MM A=30 B=35
ZYLINDER 65MM A=30 B=35

CS 59Pa
CS 59
ES 45Pa



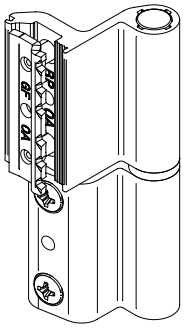
H=33
B=17
D=70

061.7044.--

CILINDER 70MM A=30 B=40
CYLINDRE 70MM A=30 B=40
CYLINDER 70MM A=30 B=40
ZYLINDER 70MM A=30 B=40

CS 59Pa
CS 59
CS 68
CP 155
CP 155-LS
CS 77
Eco system
ES 45Pa

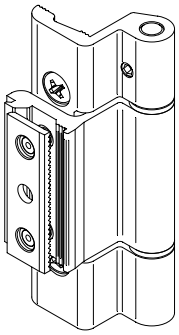
D2000138



065.8460.XX

RAAMSCHARNIER 2-DELIG
PAUMELLE DE FENETRE 2-PARTITE
WINDOW HINGE 2-PART
FENSTERBAND 2-TEILIG

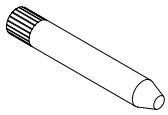
CS 59-HV	CS 77-Re
CS 59-Re	CS 45Pa
CS 59-So	ES 45Pa
CS 68	MASTERLINE 8-Fu
CS 68-HV	SL 38
CS 68-Re	
CS 68-So	
CS 77	
CS 77-HV	
CS 77-BP	
ES 50	
CS 38-SL	
CS 86-HI	



065.8475.XX

RAAMSCHARNIER 3-DELIG
PAUMELLE DE FENETRE 3-PARTITE
WINDOW HINGE 3-PART
FENSTERBAND 3-TEILIG

CS 59-HV	CS 77-Re
CS 59-Re	CS 45Pa
CS 59-So	ES 45Pa
CS 68	MASTERLINE 8-Fu
CS 68-HV	SL 38
CS 68-Re	
CS 68-So	
CS 77	
CS 77-HV	
CS 77-BP	
ES 50	
CS 38-SL	
CS 86-HI	



065.8290.--

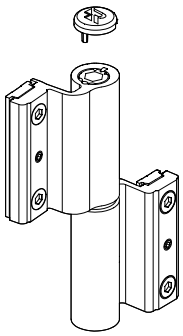
SCHARNIERPEN
CHARNIERE GOUPILLE
HINGE PEN
SCHARNIERSTIFT

CS 59Pa	ES 45Pa
CS 59	MASTERLINE 8-Fu
CS 59-HV	SL 38
CS 59-Re	
CS 59-So	
CS 68	
CS 68-HV	
CS 68-Re	
CS 68-So	
CS 77	
CS 77-HV	
CS 77-BP	
ES 50	

Ø=4 D=27
USED WITH HINGES

D2000139

G

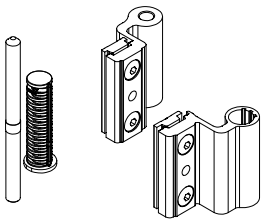


065.6510.XX

DEURSCHARNIER 2-DELIG
CHARNIERE PORTE 2-PARTIES
DOOR HINGE 2-PART
TUERBAND 2-TEILIG

CS 68-AP
CS 59Pa
CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 77
CS 77-HV
CS 77-AP
CS 77-BP
Eco system

CS 38-SL
Eco system-AP
CS 38-SL/AP
ES 45Pa



H=110
B=51.6
D=37

065.6511.XX

DEURSCHARNIER 2-DELIG
CHARNIERE PORTE 2-PARTIES
DOOR HINGE 2-PART
TUERBAND 2-TEILIG

CS 59Pa
CS 59
CS 59-Re
CS 59-So
CS 68
CS 68-Re
CS 68-So
CS 77
Eco system
CS 38-SL
CS 77-Re
ES 45Pa

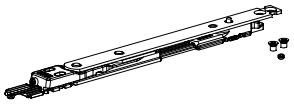
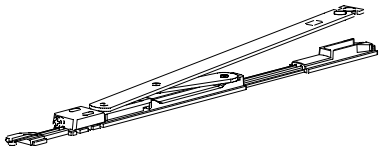
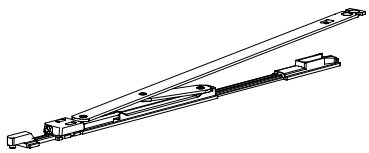
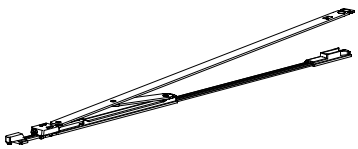
FOR USE ON 065.6510.XX
FOR USE ON 065.6511.XX

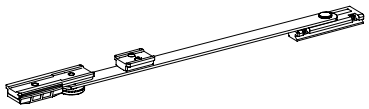
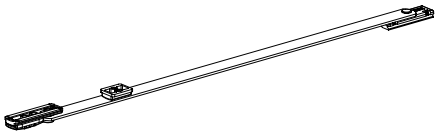
061.8725.00

VEILIGHEIDSPIN
GOUPILLE DE SECURITE
SAFETY PIN
SICHERUNGSDORN MIT KRAGEN

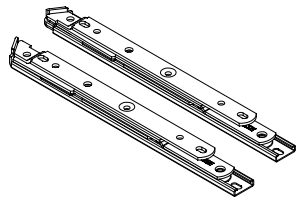
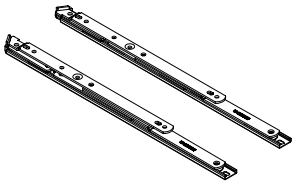
CS 59Pa
CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 77
CS 77-HV
CS 77-BP
Eco system
CS 104
ES 45Pa

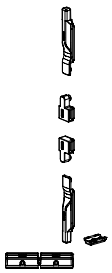
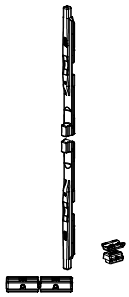
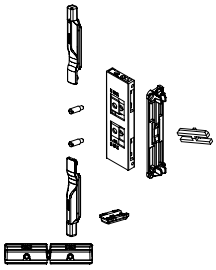
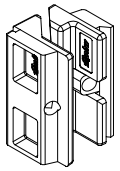
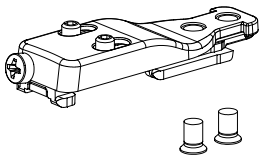
D2000140

 SMALL SCALE PACKING = 060.8905.--	060.8805.-- SCHAAR DK 402-750MM COMPAS OB 402-750MM FRICTION STAYS TUTI 402-750MM SCHERE DK 402-750MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
SMALL SCALE PACKING = 060.8906.--	060.8806.-- SCHAAR DK 750-1200MM COMPAS OB 750-1200MM FRICTION STAYS TUTI 750-1200MM SCHERE DK 750-1200MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
 LARGE SCALE PACKING = 060.8805.--	060.8905.-- SCHAAR DK 402-750 MM COMPAS OB 402-750 MM FRICTION STAYS TUTI 402-750 MM SCHERE DK 402-750 MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV CS 77-BP ES 50	CS 38-SL CS 86-HI CS 77-Re CS 45Pa ES 45Pa MASTERLINE 8-Fu SL 38
 LARGE SCALE PACKING = 060.8806.--	060.8906.-- SCHAAR DK 750-1200 MM COMPAS OB 750-1200 MM FRICTION STAYS TUTI 750-1200 MM SCHERE DK 750-1200 MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV CS 77-BP ES 50	CS 38-SL CS 86-HI CS 77-Re CS 45Pa ES 45Pa MASTERLINE 8-Fu SL 38
	060.8907.-- SCHAAR DK 1200-1700 MM COMPAS OB 1200-1700 MM FRICTION STAYS TUTI 1200-1700 MM SCHERE DK 1200-1700 MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV CS 77-BP ES 50	CS 38-SL CS 86-HI CS 77-Re CS 45Pa ES 45Pa MASTERLINE 8-Fu SL 38

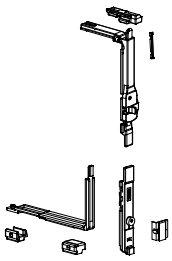
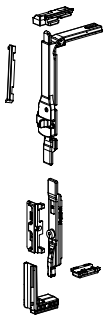
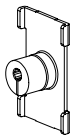
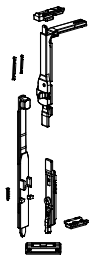
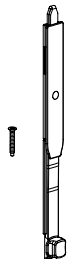
	**060.7170.--** RAAMBEGRENZER LIMITATEUR D'OUVERTURE RESTRICTOR BEGRENZUNGSSCHERE	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 86-HI CS 77-Re CS 45Pa ES 45Pa MASTERLINE 8-Fu SL 38
	**060.8810.--** RAAMBEGRENZER LIMITEUR D'OUVERTURE RESTRICTOR BEGRENZUNGSSCHERE	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
	060.8922.-- SCHAAR KD 1200<FB<1700 COMPAS BO 1200<FB<1700 FRICTION STAYS TITU 1200<FB<1700 SCHERE KD 1200<FB<1700	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV CS 77-BP ES 50	CS 38-SL CS 86-HI CS 77-Re CS 45Pa ES 45Pa MASTERLINE 8-Fu SL 38

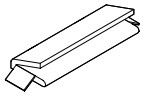
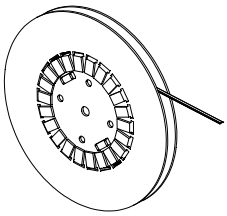
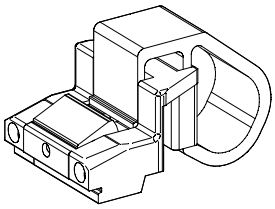
D2000142

 H=16.25 B=262 D=22	060.8830.-- SCHAREN 259MM COMPAS 259MM FRICTION STAYS 259MM SCHERE 259MM	ES 45Pa 010.0492.XX 010.0412.XX		12 st./pc 052.5300.-- DIN 7981 4.8 x 19 2 st./pc 052.5316.-- DIN 7982 4.2 x 19
 H=16.25 B=414 D=22	060.8831.-- SCHAREN 412MM COMPAS 412MM FRICTION STAYS 412MM SCHERE 412MM	ES 45Pa 010.0492.XX 010.0412.XX		14 st./pc 052.5300.-- DIN 7981 4.8 x 19 2 st./pc 052.5316.-- DIN 7982 4.2 x 19
 H=16.25 B=567 D=22	060.8832.-- SCHAREN 567MM COMPAS 567MM FRICTION STAYS 567MM SCHERE 567MM	ES 45Pa 010.0492.XX 010.0412.XX		18 st./pc 052.5300.-- DIN 7981 4.8 x 19 4 st./pc 052.5316.-- DIN 7982 4.2 x 19
 H=16.25 D=713 B=22	060.8833.-- SCHAREN 711MM COMPAS 711MM FRICTION STAYS 711MM SCHERE 711MM	ES 45Pa 010.0492.XX 010.0412.XX		16 st./pc 052.5300.-- DIN 7981 4.8 x 19 4 st./pc 052.5316.-- DIN 7982 4.2 x 19

	060.8800.04 KRUKZIJDE DR/VR COTE DE LA BEQUILLE FO/FS HANDLE SIDE SH/BH DRUCKERSEITE DF/KF	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.8801.04 SLUITING STOLPVLEUGEL VERROUILLAGE FENETRE DOUBLE OUVRANT CLOSURE DOUBLE CASEMENT WINDOW VERSCHLUSS STULPFLUEGEL	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.8802.-- KRUKZIJDE BUITENDRAAIEND RAAM COTE DE LA BEQUILLE FENETRE OUVRANT VERS L'EX HANDLE SIDE OUTWARD OPENING WINDOW DRUCKERSEITE NACH AUSSEN OEFFNENDES FENSTER	ES 45Pa	
	060.8803.-- SLUITSTUK GACHE LOCK PLATE SCHLIESSSTUECK	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.8804.-- KOPPELSTUK DRAAIRAAM PIECE DE RACCORDEMENT FENETRE OUVRANTE CONNECTION PIECE OPENING WINDOW KUPPLUNGSSTUECK DREHFLUEGEL	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa

D2000157

	060.8808.-- KRUKZIJDE KD LINKS COTE DE LA BEQUILLE BO GAUCHE HANDLE SIDE TITU LEFT DRUCKERSEITE KD LINKS	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
	060.8809.-- KRUKZIJDE DK RECHTS COTE DE LA BEQUILLE OB DROITE HANDLE SIDE TUTI RIGHT DRUCKERSEITE DK RECHTS	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
 H=32.2 B=19.7 D=11.1	060.8811.-- SLUITSTUK GACHE LOCK PLATE SCHLIESSSTUECK	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
	060.8812.-- STOLP-DRAAIKIPSET RECHTS SET DE DOUBLE OUVRANTE OSCILLO-BATTANTE DROIT DOUBLE CASEMENT TURN AND TILT SET RIGHT STULP-DREHKIPPSATZ RECHTS	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38
	060.8813.-- GRENDEL 220MM VERROU 220MM BOLT 220MM RIEGEL 220MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38

 H=4.96 B=24.5 D=6.8	021.5146.07 100 CLIPS VR.BEVEST.AFWERK.PR. SACHET 100 CLIPS HABILLAGE EXT 100 CLIPS FIXATION FACE CAPS 100 KLIPPE BEFEST.ABDECKPROF.	GP 51 031.0012.XX HIFI TEMPO Th CR 120 CP 50 CP 45Pa CS 45Pa CP 50 (GR) CP 45Pa (GR) ES 45Pa	
	060.6653.04 SLUITLAT TRINGLE LINK BAR SCHUBSTANGE	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.7054.XX KNIPSLOT VALRAAM LOQUETEAU FENETRE A SOUFFLET SPRING LATCH BOTTOM HUNG WINDOW OBERLICHTSCHNAPPER	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 86-HI CS 77-Re CS 45Pa CS 104

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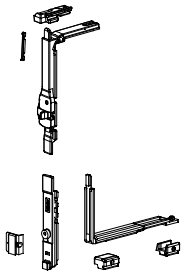
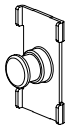
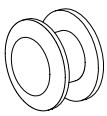
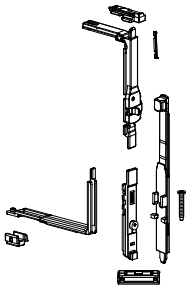
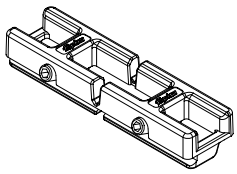
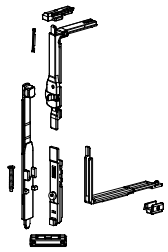
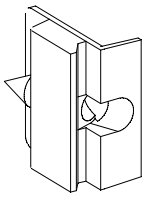
	060.8814.-- GRENDEL 400MM VERROU 400MM BOLT 400MM RIEGEL 400MM	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38	
	060.8818.-- KRUKZIJDE KD RECHTS COTE DE LA BEQUILLE BO DROITE HANDLE SIDE TITU RIGHT DRUCKERSEITE KD RECHTS	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38	
	060.8823.-- SLUITSTUK GACHE LOCK PLATE SCHLIESSSTUECK	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38	
 H=32.3 B=19.7 D=11.1	060.8824.-- MEENEMER ENTRAINEUR DRIVE PLATE MITNEHMER	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38	
	060.8825.-- MEENEMER ENTRAINEUR DRIVE PLATE MITNEHMER	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV ES 50 CS 38-SL	CS 77-Re ES 45Pa MASTERLINE 8-Fu SL 38	

	060.8826.04 VERLENGSTUK GRENDEL RALLONGE VERROU BOLT EXTENSION RIEGELVERLAENGERUNG	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.8828.-- STOLP-KIPDRAAISET LINKS SET DE DOUBLE OUVRANTE BATTANT-OUVRANT GAUCHE DOUBLE CASEMENT TILT AND TURN SET LEFT STULP-KIPPDREHSATZ LINKS	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
 H=12.9 B=78 D=20.3	060.8829.04 SLUITSTUK GACHE LOCK PLATE SCHLIESSSTUECK	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.8838.-- STOLP-KIPDRAAISET RECHTS SET DE DOUBLE OUVRANTE BATTANT-OUVRANT DROITE DOUBLE CASEMENT TILT AND TURN SET RIGHT STULP-KIPPDREHSATZ RECHTS	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV Eco system CS 38-SL	CS 77-Re ES 45Pa
	060.8911.-- SLUITSTUK GACHE LOCK PLATE SCHLIESSSTUECK	CS 59Pa CS 59 CS 59-HV CS 59-Re CS 59-So CS 68 CS 68-HV CS 68-Re CS 68-So CS 77 CS 77-HV CS 77-BP Eco system	CS 38-SL

D2000180

ES 45Pa

BORSTELDICHTINGEN
JOINTS-BROSSE
BRUSHES
BUERSTENDICHTUNGEN

Reynaers Aluminium

H=20
B=4.8
D=2000

081.9141.04

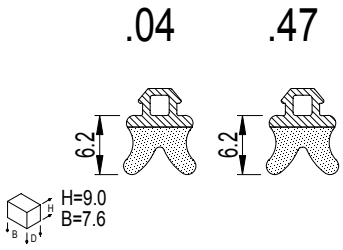
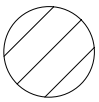
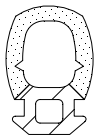
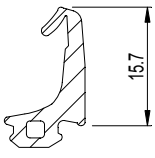
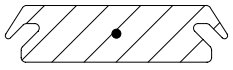
BORSTELDICHTING DEUR ONDER
JOINT-BROSSE PORTES EN BAS
WOOLPILE DOORS BOTTOM
BUERSTENDICHTUNG TUEREN UNTEN

CS 86-HI

CS 59Pa
CS 59
CS 68
CS 77
CS 77-BP
CS 77-FP
Eco system
Eco system-AP
CF 77
CF 77-AP
ES 45Pa

D200160

G

	022.0048.SY GLASDICHTING JOINT DE VITRAGE GLAZING GASKET VERGLASUNGSDICHTUNG	CS 59Pa CS 59 CS 68 CS 77 CS 77-BP CP 45Pa CW 50-FV CS 38-SL CS 86-HI CD 50	CS 24-SL CS 24-SL/AP CS 45Pa CD 45Pa CS 104-HI+ XS 68 ES 45Pa SL 38
	022.3036.04 DICHTING JOINT GASKET DICHTUNG	HIFI BOREALE CW 86 CP 50 CP 45Pa CW 50-FV GP 51 CS 24-SL CS 45Pa CD 45Pa	CP 50 (GR) CP 45Pa (GR) CP 68 XS 68 ES 45Pa CF 68
	029.5626.04 DICHTING O3MM JOINT O3MM GASKET O3MM DICHTUNG O3MM	HFP 147 HFP 179 CS 77 CP 45Pa ES 45Pa CSW 86-HI	
	080.8442.04 AKOESTISCHE DICHTING JOINT ACOUSTIQUE ACOUSTIC GASKET SCHALLDICHTUNG	CP 130 CP 130-LS HFP 147 HFP 179 CS 77 ES 50 CS 38-SL CS 86-HI ES 50-AP	CS 38-SL/AP CF 77 CS 104-HI+ CF 77-AP ES 45Pa CF 68
	080.9659.04 MIDDENDICHTING 15.9x6.4MM JOINT CENTRAL 15.9x6.4MM CENTRAL GASKET 15.9x6.4MM MITTELDICHTUNG 15.9x6.4MM	ES 50 ES 50-AP ES 45Pa	
	080.9746.04 AFDICHTINGSRUBBER JOINT D´ETANCHEITE SEALING STRIP ABDICHTUNGSGUMMI	CW 50 CW 50-VL ES 45Pa	

D2000161

180.8204.04

DICHTING
JOINT
GASKET
DICHTUNG

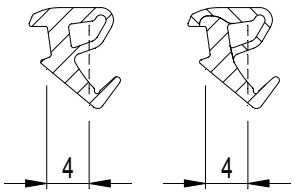
H=7.3MM
B=8.15MM

ES 45Pa
MASTERLINE 8-Fu
SL 38

080.9124.SY

BINNENBEGLAZINGSDICHTING 4MM
JOINT DE VITRAGE INTERIEUR 4MM
INNER GLAZING GASKET 4MM
INNENVERGLASUNGSDICHTUNG 4MM

.04 .47
.N4 .N7



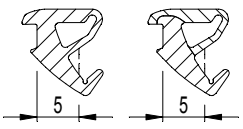
H=8.7 B=9.6 (COLOR= RED)
04/47=SILICONISED
N4/N7=NON SILICONISED

CS 59Pa	CS 59Pa-AP
CS 59	CS 59-AP
CS 59-HV	CS 68-AP
CS 59-Re	CS 77-AP
CS 59-So	CS 77-BP
CS 68	CS 77-FP
CS 68-HV	CP 155-AP
CS 68-Re	CP 155-LS/AP
CS 68-So	CP 96
VISION 50	CP 45Pa
TP 110	CP 96-LS
TLS 110	CP 96-AP
CP 130	CP 96-LS/AP
CP 130-LS	TP 110-Re
CP 155	ES 50
CP 155-LS	CS 38-SL
CW 50	ES 50-AP
CW 60	CS 38-SL/AP
TR 200	CS 24-SL
BOREALE	ES 75
CS 77	CF 77
CS 77-HV	CS 104-HI+

080.9125.SY

BINNENBEGLAZINGSDICHTING 5MM
JOINT DE VITRAGE INTERIEUR 5MM
INNER GLAZING GASKET 5MM
INNENVERGLASUNGSDICHTUNG 5MM

.04 .47
.N4 .N7



H=10.3 B=9.7 (COLOR= BLUE)
04/47=SILICONISED
N4/N7=NON SILICONISED

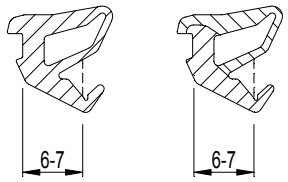
CS 59Pa	CS 59-AP
CS 59	CS 68-AP
CS 59-HV	CS 77-AP
CS 59-Re	CS 77-BP
CS 59-So	CS 77-FP
CS 68	CP 155-AP
CS 68-HV	CP 155-LS/AP
CS 68-Re	CP 96
CS 68-So	CP 45Pa
VISION 50	CP 96-LS
TP 110	CP 96-AP
TLS 110	CP 96-LS/AP
CP 130	TP 110-Re
CP 130-LS	ES 50
CP 155	CS 38-SL
CP 155-LS	ES 50-AP
CW 50	CS 38-SL/AP
CW 60	CS 24-SL
TR 200	ES 75
CS 77	CF 77
CS 77-HV	CS 104-HI+
CS 59Pa-AP	CP 45Pa (GR)

D2000162

080.9126.SY

BINNENBEGLAZINGSDICHTING 6-7MM
JOINT DE VITRAGE INTERIEUR 6-7MM
INNER GLAZING GASKET 6-7MM
INNENVERGLASUNGSDICHTUNG 6-7MM

.04 .47
.N4 .N7



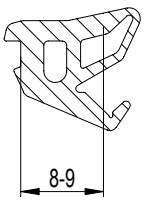
CS 59Pa	CS 77	CS 24-SL
CS 59	CS 77-HV	Eco system 75
CS 59-HV	CS 59Pa-AP	CF 77
CS 59-Re	CS 59-AP	CS 104
CS 59-So	CS 68-AP	CP 45Pa (GR)
CS 68	CS 77-AP	CS 77-SP
CS 68-HV	CS 77-BP	CI 45
CS 68-Re	CS 77-FP	CF 77-AP
CS 68-So	CP 155-AP	ES 45Pa
VISION 50	CP 155-LS/AP	
TP 110	CP 96	
TP 138	CP 96-LS	
TLS 110	CP 96-AP	
CP 130	CP 96-LS/AP	
CP 130-LS	TP 110-Re	
CP 155	Eco system	
CP 155-LS	CS 38-SL	
CW 50	CS 86-HI	
CW 60	Eco system-AP	
TR 200	CS 38-SL/AP	

H=11.5 B=11.4
04/47=SILICONISED N4/N7=NON SILICONISED
COLOR= GREEN

080.9128.SY

BINNENBEGLAZINGSDICHTING 8-9MM
JOINT DE VITRAGE INTERIEUR 8-9MM
INNER GLAZING GASKET 8-9MM
INNENVERGLASUNGSDICHTUNG 8-9MM

.04
.N4

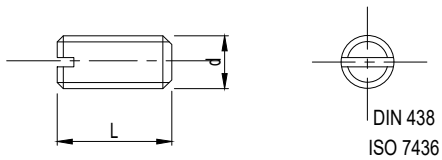
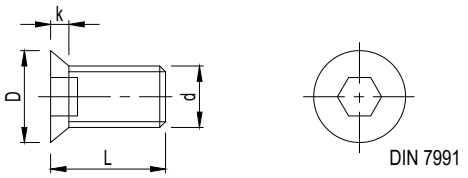
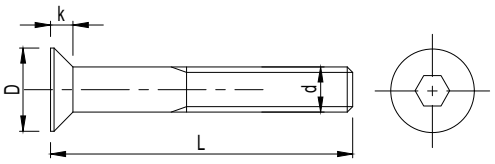
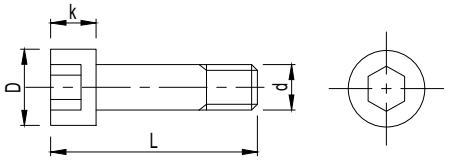
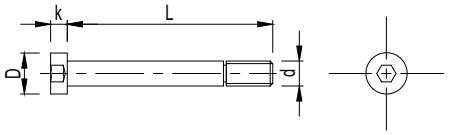
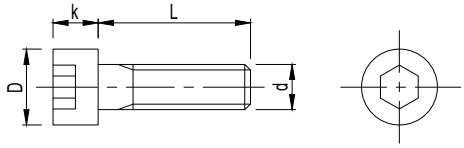


CS 59Pa	CS 77	CF 77
CS 59	CS 77-HV	CS 104
CS 59-HV	CS 59Pa-AP	CS 77-SP
CS 59-Re	CS 59-AP	CI 45
CS 59-So	CS 68-AP	CF 77-AP
CS 68	CS 77-AP	ES 45Pa
CS 68-HV	CS 77-BP	
CS 68-Re	CP 155-AP	
CS 68-So	CP 155-LS/AP	
VISION 50	CP 96	
TP 110	CP 96-LS	
TP 138	CP 96-AP	
TLS 110	CP 96-LS/AP	
CP 130	TP 110-Re	
CP 130-LS	Eco system	
CP 155	CS 38-SL	
CP 155-LS	Eco system-AP	
CW 50	CS 38-SL/AP	
CW 60	CS 24-SL	
TR 200	Eco system 75	

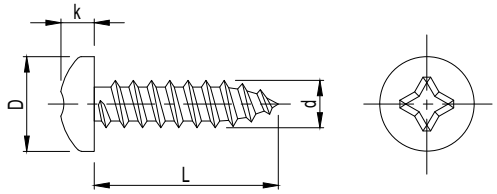
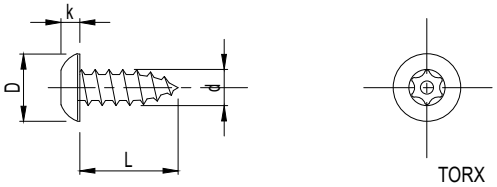
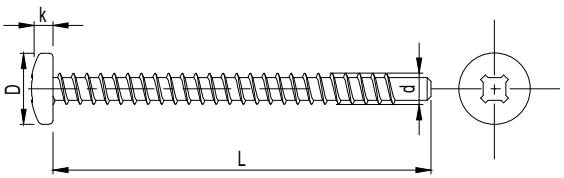
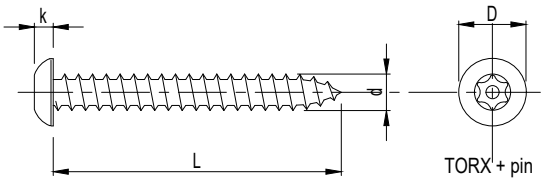
H=13.4 B=14.8
.04=SILICONISED .N4=NON SILICONISED
COLOR= YELLOW

D2000194

G

		d	afm. dimen. L	dimen. Masse k	D
 DIN 438 ISO 7436	051.5100.--	M4	6		
 DIN 7991 ISO 10642	050.5076.-- SCHROEF MET BORGINGSVERF VIS AVEC COLLE DE BLOCAGE SCREW WITH LOCK PAINT SCHRAUBE MIT SICHERUNGSFARBE	M4	6	2.2	7.5
 DIN 7991	050.5054.--	M6	40	3	11
 DIN 7984	050.5043.--	M6	29	4	10
	050.5045.--	M6	54	4	10
 DIN 7984	050.5045.-- SCHROEF MET BORGINGSVERF VIS AVEC COLLE DE BLOCAGE SCREW WITH LOCK PAINT SCHRAUBE MIT SICHERUNGSFARBE	M6	50	4	10
 DIN 912 ISO 4762	050.5028.--	M6	16	6	10
	050.5039.-- SCHROEF MET BORGINGSVERF VIS AVEC COLLE DE BLOCAGE SCREW WITH LOCK PAINT SCHRAUBE MIT SICHERUNGSFARBE	M6	18	6	10

D0068368

		d	afm. dimen. L	dimen. Masse k	D
 DIN 7981 ISO 7049	052.5320.--	3.5	9.5	2.6	6.9
	052.5200.--	3.9	19	2.8	7.5
	052.5360.--	4.2	9.5	3.05	8.2
	052.5317.--	4.2	13	3.05	8.2
	052.5310.--	4.2	16	3.05	8.2
	052.5347.--	4.2	19	3.05	6.2
	052.5315.--	4.2	25	3.05	8.2
	052.5321.--	4.2	32	3.05	8.2
	052.5314.--	4.2	50	3.05	8.2
	052.5330.--	4.8	13	3.55	9.5
	052.5300.--	4.8	19	3.55	9.5
	052.5301.--	4.8	38	3.55	9.5
	052.5302.--	4.8	50	3.55	9.5
	052.5323.--	4.8	60	3.55	9.5
	052.5306.--	4.8	70	3.55	9.5
	052.5305.--	4.8	80	3.55	9.5
	052.5304.--	4.8	90	3.55	9.5
	052.5344.--	5.5	13	3.95	10.8
	052.5343.--	5.5	25	3.95	10.8
	052.5342.--	5.5	32	3.95	10.8
	052.5341.--	5.5	38	3.95	10.8
	052.5340.--	5.5	45	3.95	10.8
	052.5350.--	6.3	25	4.55	12.5
	052.5351.--	6.3	38	4.55	12.5
 TORX DIN 7981 ISO 3506	052.5307.--	3.5	19	4.5	6.9
	052.6330.--	4.8	13	3.1	9.5
	152.5299.--	4.8	16	3.55	9.5
	152.5301.--	4.8	38	3.55	9.5
	152.5381.--	6.3	38	4.55	12.5
	052.5325.--	4.2	50	3	9.4
 TORX + pin ISO 3506-1	052.5400.-- BEVEILIGINGSCHROEF SÉCURITÉ VIS SECURITY SCREW SICHERCHEITSSCHRAUBE	4.8	38	2.5	8.9

D0068369

084.9063.XX

SILICONE
SILICONE
SILICONE
SILICONEN

375GR
.00= TRANSPARANT/.04= BLACK/.07= GREY
.51= WHITE/.53= BROWN

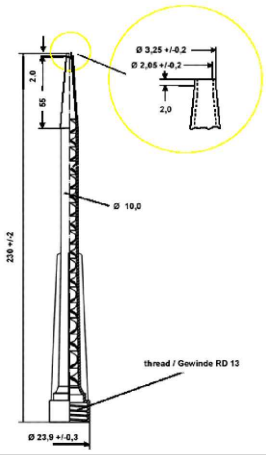
084.9080.--

REYNASEAL DUO
REYNASEAL DUO
REYNASEAL DUO
REYNASEAL DUO

550GR

084.9086.--

MENGTUIT VOOR REYNASEAL DUO
PIECE DE MELANGE POUR REYNASEAL DUO
MIXING NOZZLE FOR REYNASEAL DUO
MISCHSTUECK FUER REYNASEAL DUO



D0067542

G

20GR

084.9107.--

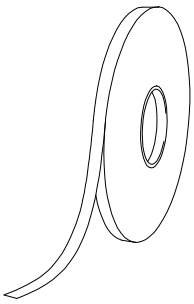
SEKONDENLIJM 20g
COLLE RAPIDE 20g
CONTACT GLUE 20g
SEKUNDENKLEBER 20g

MASTERLINE 8-Fu
180.8682.04

310ML

084.9108.04

VULKANISEERLIJM DICHTINGEN 310ML
COLLE VULCANISANTE JOINTS 310ML
VULCANISING GLUE GASKETS 310ML
VULKANISIERKLEBER DICHTUNGEN 310ML

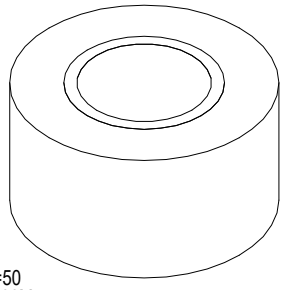


1.5 x 10
25M

084.9110.--

KLEEFBAND 2-ZIJDEN KLEVEND
BANDE 2 FACES AUTOCOLLANTES
TAPE DOUBLE SIDES SELF-ADHESIVE
KLEBENDES BAND BEIDSEITIG

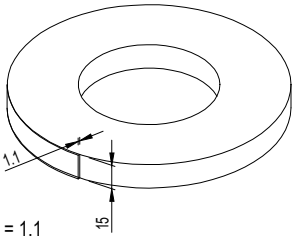
HFP 147



B=50
L=66M

084.9111.--

KLEEFBAND POLYPROPYLEEN
BANDE AUTOCOLLANTE POLYPROPYLENE
TAPE SELF-ADHESIVE POLYPROPYLENE
KLEBENDES BAND POLYPROPYLEN



H = 1.1
B = 15
L = 10

084.9115.04

KLEEFBAND 2-ZIJDEN KLEVEND 1.1x15
BANDE 2 FACES AUTOCOLLANTES 1.1x15
TAPE DOUBLE SIDES SELF-ADHESIVE 1.1x15
KLEBENDES BAND BEIDSEITIG 1.1x15

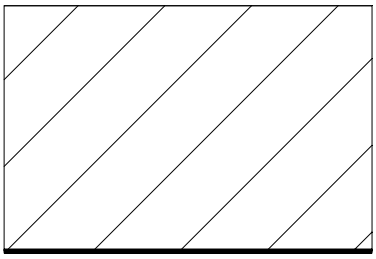
CW 50
CW 60
SL 38

D0067543

B=10MM
L=10M

084.9380.--

AFDICHTINGSBAND 1 ZIJDE ZELFKLEVEND
JOINT D'ETANCHEITE 1 FACE AUTOCOLLANTE
SEALING TAPE 1-SIDE SELF-ADHESIVE
ABDICHTUNGSBAND EINSEITIG SELBSTKLEBEND



H=6MM
B=9MM
L= 15M

084.9399.04

AFDICHTINGSBAND 1 ZIJDE ZELFKLEVEND 6X9MM
JOINT D'ETANCHEITE 1 FACE AUTOCOLL. 6X9MM
SEALING TAPE 1-SIDE SELF-ADHESIVE 6X9MM
ABDICHTUNGSBAND EINSEITIG SELBSTKL. 6X9MM

B=19MM

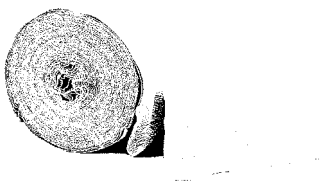
084.9480.--

KLEEFBAND 2-ZIJDEN KLEVEND
BANDE 2 FACES AUTOCOLLANTES
TAPE DOUBLE SIDES SELF-ADHESIVE
BEIDSEITIG KLEBENDES BAND

H=50
B=82
D=20

086.9150.--

ALU GOM VOOR VLEKKEN
GOMME POUR GRIFFES ET TACHES
RUBBING BLOCK
SCHLEIFGUMMI



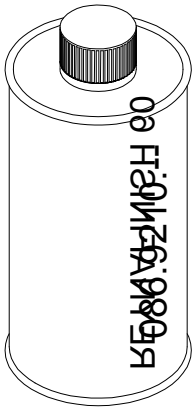
B=100MM

086.9160.--

INPAKPAPIER
PAPIER CREPONE
PACKAGING PAPER
VERPACKUNGSPAPIER

D0067544

G

500ML	086.9175.--	SNIJMIDDEL-SPRAY 500ML AEROSOL D'HUILE DE COUPE 500ML CUTTING SPRAY 500ML SCHNEIDMITTEL-SPRAY 500ML	CS 77		
 1L	086.9210.--	REYNAFINISH 60 (VOC=100 %) REYNAFINISH 60 (VOC=100 %) REYNAFINISH 60 (VOC=100 %) REYNAFINISH 60 (VOC=100 %)			
500ML	086.9211.--	REYNOVATOR 718 REYNOVATOR 718 REYNOVATOR 718 REYNOVATOR 718			

D0067545

500ML

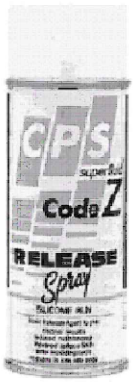
086.9212.--

REYNAWASH COLOR (VOC=10 %)
REYNAWASH COLOR (VOC=10 %)
REYNAWASH COLOR (VOC=10 %)
REYNAWASH COLOR (VOC=10 %)

500ML

086.9213.--

REYNAWASH ANO
REYNAWASH ANO
REYNAWASH ANO
REYNAWASH ANO



400ML

086.9551.--

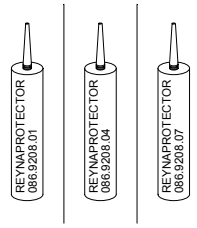
SILICONE-SPRAY 400ML
AEROSOL-SILICONE 400ML
SILICONE SPRAY 400ML
SILICONENSPRAY 400ML

086.9600.XX

REYNASTICK
REYNASTICK
REYNASTICK
REYNASTICK

D0067547

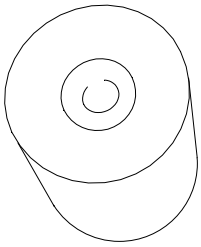
G



310ML

086.9208.SY

REYNAPROTECTOR SILICONE
REYNAPROTECTOR SILICONE
REYNAPROTECTOR SILICONE
REYNAPROTECTOR SILICONEN



086.9225.--

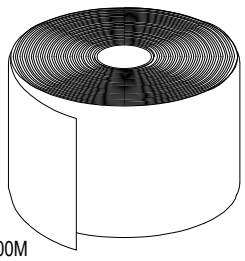
SCHUIMROL
ROULEAU EN MOUSSE
SCHAUMROLLE
FOAM ROLL

lakpoeder

086.9612.XX

POEDERLAK
POUDRE POUR LAQUAGE
POWDERCOAT
PULVERLACK

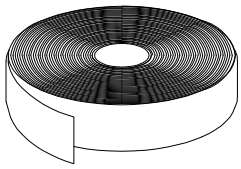
D2000192



L=200M
B=1250MM

084.9501.01

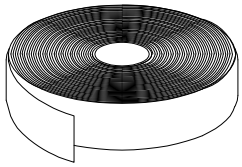
REYNATAPE 1250MM L=200M
REYNATAPE 1250MM L=200M
REYNATAPE 1250MM L=200M
REYNATAPE 1250MM L=200M



L=200M
B=20MM

084.9520.01

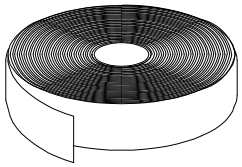
REYNATAPE 20MM L=200M
REYNATAPE 20MM L=200M
REYNATAPE 20MM L=200M
REYNATAPE 20MM L=200M



L=200M
B=25MM

084.9525.01

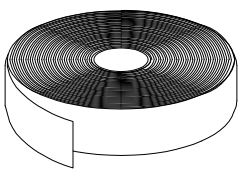
REYNATAPE 25MM L=200M
REYNATAPE 25MM L=200M
REYNATAPE 25MM L=200M
REYNATAPE 25MM L=200M



L=200M
B=30MM

084.9530.01

REYNATAPE 30MM L=200M
REYNATAPE 30MM L=200M
REYNATAPE 30MM L=200M
REYNATAPE 30MM L=200M



L=200M
B=35MM

084.9535.01

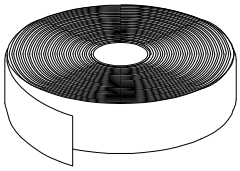
REYNATAPE 35MM L=200M
REYNATAPE 35MM L=200M
REYNATAPE 35MM L=200M
REYNATAPE 35MM L=200M

D0067888

G

084.9540.01

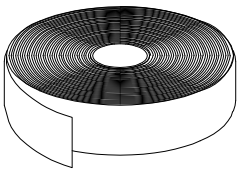
REYNATAPE 40MM L=200M
REYNATAPE 40MM L=200M
REYNATAPE 40MM L=200M
REYNATAPE 40MM L=200M



L=200M
B=40MM

084.9545.01

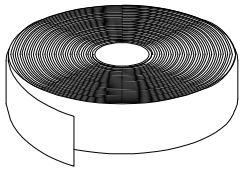
REYNATAPE 45MM L=200M
REYNATAPE 45MM L=200M
REYNATAPE 45MM L=200M
REYNATAPE 45MM L=200M



L=200M
B=45MM

084.9550.01

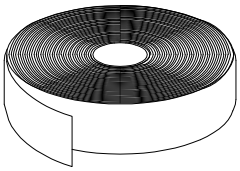
REYNATAPE 50MM L=200M
REYNATAPE 50MM L=200M
REYNATAPE 50MM L=200M
REYNATAPE 50MM L=200M



L=200M
B=50MM

084.9555.01

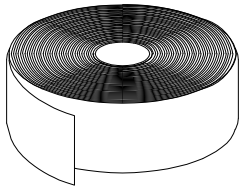
REYNATAPE 55MM L=200M
REYNATAPE 55MM L=200M
REYNATAPE 55MM L=200M
REYNATAPE 55MM L=200M



L=200M
B=55MM

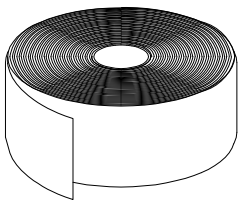
084.9560.01

REYNATAPE 60MM L=200M
REYNATAPE 60MM L=200M
REYNATAPE 60MM L=200M
REYNATAPE 60MM L=200M



L=200M
B=60MM

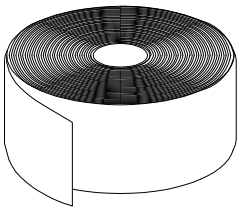
D0067889



L=200M
B=65MM

084.9565.01

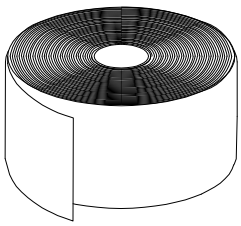
REYNATAPE 65MM L=200M
REYNATAPE 65MM L=200M
REYNATAPE 65MM L=200M
REYNATAPE 65MM L=200M



L=200M
B=70MM

084.9570.01

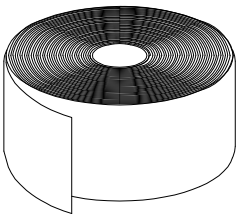
REYNATAPE 70MM L=200M
REYNATAPE 70MM L=200M
REYNATAPE 70MM L=200M
REYNATAPE 70MM L=200M



L=200M
B=75MM

084.9575.01

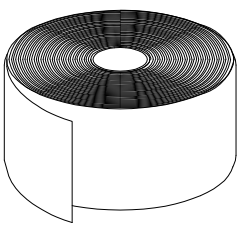
REYNATAPE 75MM L=200M
REYNATAPE 75MM L=200M
REYNATAPE 75MM L=200M
REYNATAPE 75MM L=200M



L=200M
B=80MM

084.9580.01

REYNATAPE 80MM L=200M
REYNATAPE 80MM L=200M
REYNATAPE 80MM L=200M
REYNATAPE 80MM L=200M



L=200M
B=85MM

084.9585.01

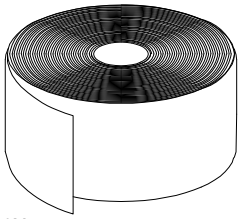
REYNATAPE 85MM L=200M
REYNATAPE 85MM L=200M
REYNATAPE 85MM L=200M
REYNATAPE 85MM L=200M

D0067890

G

084.9590.01

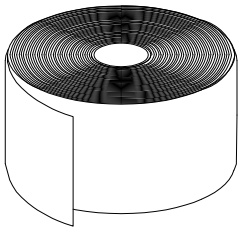
REYNATAPE 90MM L=200M
REYNATAPE 90MM L=200M
REYNATAPE 90MM L=200M
REYNATAPE 90MM L=200M



L=200M
B=90MM

084.9700.01

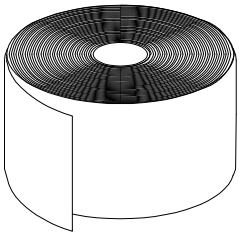
REYNATAPE 100MM L=200M
REYNATAPE 100MM L=200M
REYNATAPE 100MM L=200M
REYNATAPE 100MM L=200M



L=200M
B=100MM

084.9705.01

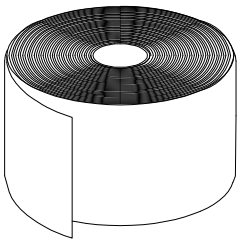
REYNATAPE 105MM L=200M
REYNATAPE 105MM L=200M
REYNATAPE 105MM L=200M
REYNATAPE 105MM L=200M



L=200M
B=105MM

084.9710.01

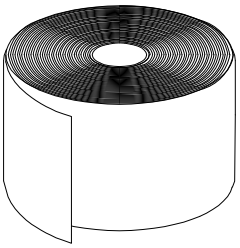
REYNATAPE 110MM L=200M
REYNATAPE 110MM L=200M
REYNATAPE 110MM L=200M
REYNATAPE 110MM L=200M



L=200M
B=110MM

084.9715.01

REYNATAPE 115MM L=200M
REYNATAPE 115MM L=200M
REYNATAPE 115MM L=200M
REYNATAPE 115MM L=200M

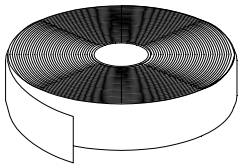


L=200M
B=115MM

D0067891

084.9635.01

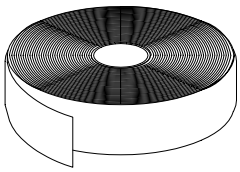
REYNATAPE 35MM L=500M
REYNATAPE 35MM L=500M
REYNATAPE 35MM L=500M
REYNATAPE 35MM L=500M



L=500M
B=35MM

084.9640.01

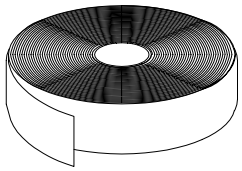
REYNATAPE 40MM L=500M
REYNATAPE 40MM L=500M
REYNATAPE 40MM L=500M
REYNATAPE 40MM L=500M



L=500M
B=40MM

084.9645.01

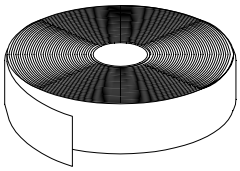
REYNATAPE 45MM L=500M
REYNATAPE 45MM L=500M
REYNATAPE 45MM L=500M
REYNATAPE 45MM L=500M



L=500M
B=45MM

084.9650.01

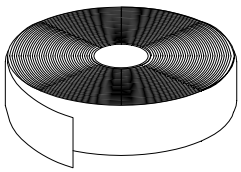
REYNATAPE 50MM L=500M
REYNATAPE 50MM L=500M
REYNATAPE 50MM L=500M
REYNATAPE 50MM L=500M



L=500M
B=50MM

084.9655.01

REYNATAPE 55MM L=500M
REYNATAPE 55MM L=500M
REYNATAPE 55MM L=500M
REYNATAPE 55MM L=500M

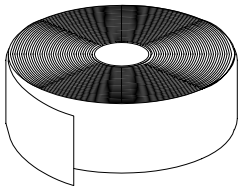


L=500M
B=55MM

D0067892

084.9660.01

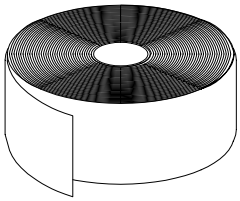
REYNATAPE 60MM L=500M
REYNATAPE 60MM L=500M
REYNATAPE 60MM L=500M
REYNATAPE 60MM L=500M



L=500M
B=60MM

084.9665.01

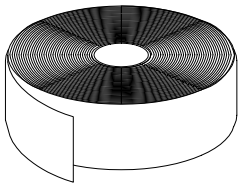
REYNATAPE 65MM L=500M
REYNATAPE 65MM L=500M
REYNATAPE 65MM L=500M
REYNATAPE 65MM L=500M



L=500M
B=65MM

084.9670.01

REYNATAPE 70MM L=500M
REYNATAPE 70MM L=500M
REYNATAPE 70MM L=500M
REYNATAPE 70MM L=500M



L=500M
B=70MM

084.9675.01

REYNATAPE 75MM L=500M
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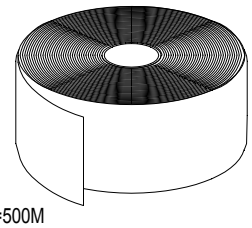
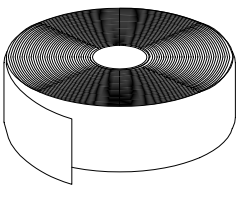
REYNATAPE 75MM L=500M
REYNATAPE 75MM L=500M



L=500M
B=75MM

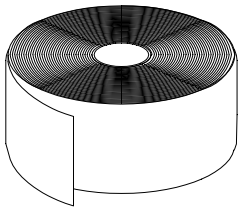
084.9680.01

REYNATAPE 80MM L=500M
REYNATAPE 80MM L=500M
REYNATAPE 80MM L=500M
REYNATAPE 80MM L=500M



L=500M
B=80MM

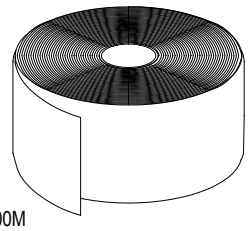
D0067893



L=500M
B=85MM

084.9685.01

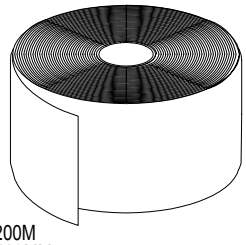
REYNATAPE 85MM L=500M
REYNATAPE 85MM L=500M
REYNATAPE 85MM L=500M
REYNATAPE 85MM L=500M



L=500M
B=90MM

084.9690.01

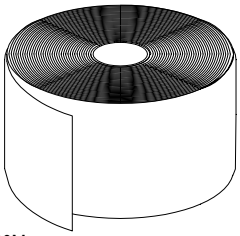
REYNATAPE 90MM L=500M
REYNATAPE 90MM L=500M
REYNATAPE 90MM L=500M
REYNATAPE 90MM L=500M



L=200M
B=100MM

084.9700.01

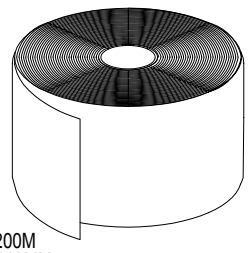
REYNATAPE 100MM L=200M
REYNATAPE 100MM L=200M
REYNATAPE 100MM L=200M
REYNATAPE 100MM L=200M



L=200M
B=105MM

084.9705.01

REYNATAPE 105MM L=200M
REYNATAPE 105MM L=200M
REYNATAPE 105MM L=200M
REYNATAPE 105MM L=200M

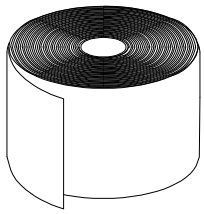


L=200M
B=110MM

084.9710.01

REYNATAPE 110MM L=200M
REYNATAPE 110MM L=200M
REYNATAPE 110MM L=200M
REYNATAPE 110MM L=200M

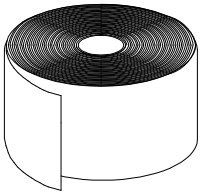
D0067894



L=200M
B=120MM

084.9720.01

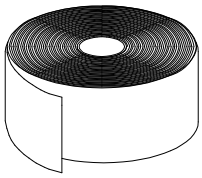
REYNATAPE 120MM L=200M
REYNATAPE 120MM L=200M
REYNATAPE 120MM L=200M
REYNATAPE 120MM L=200M



L=200M
B=150MM

084.9750.01

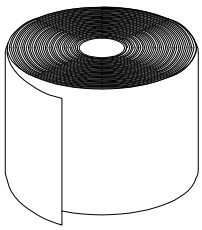
REYNATAPE 150MM L=200M
REYNATAPE 150MM L=200M
REYNATAPE 150MM L=200M
REYNATAPE 150MM L=200M



L=200M
B=160MM

084.9760.01

REYNATAPE 160MM L=200M
REYNATAPE 160MM L=200M
REYNATAPE 160MM L=200M
REYNATAPE 160MM L=200M

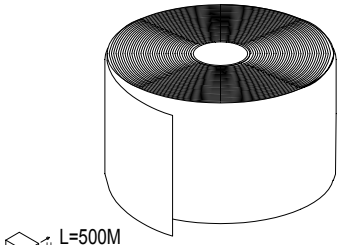


L=200M
B=200MM

084.9799.01

REYNATAPE 200MM L=200M
REYNATAPE 200MM L=200M
REYNATAPE 200MM L=200M
REYNATAPE 200MM L=200M

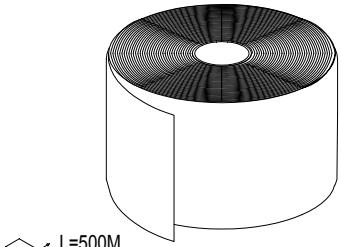
D0067895



L=500M
B=110MM

084.9810.01

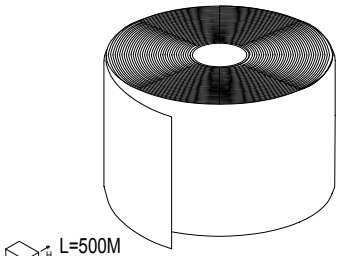
REYNATAPE 110MM L=500M
REYNATAPE 110MM L=500M
REYNATAPE 110MM L=500M
REYNATAPE 110MM L=500M



L=500M
B=115MM

084.9815.01

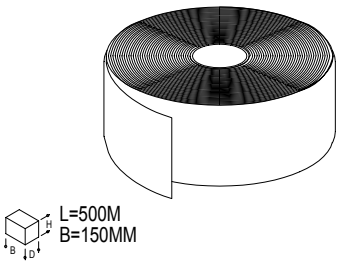
REYNATAPE 115MM L=500M
REYNATAPE 115MM L=500M
REYNATAPE 115MM L=500M
REYNATAPE 115MM L=500M



L=500M
B=120MM

084.9820.01

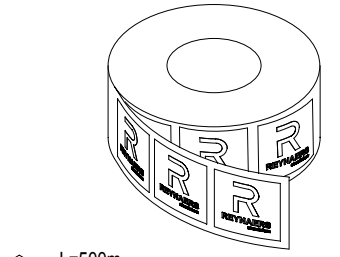
REYNATAPE 120MM L=500M
REYNATAPE 120MM L=500M
REYNATAPE 120MM L=500M
REYNATAPE 120MM L=500M



L=500M
B=150MM

084.9850.01

REYNATAPE 150MM L=500M
REYNATAPE 150MM L=500M
REYNATAPE 150MM L=500M
REYNATAPE 150MM L=500M

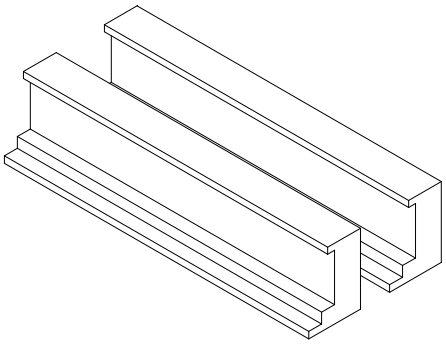


L=500m
D=75mm

084.9210.01

AFZETLINT 75MM L=500M
CORDON 75MM L=500M
CORDON 75MM L=500M
ABGRENZUNGSSEILE 75MM L=500M

D0067896

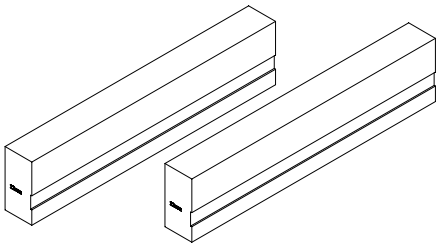


097.0383.00

KLEMBLOKKEN
BLOCS DE SERRAGE
CLAMP BLOCKS
SPANNBACKEN

BLOKI DOCISKOWE

ES 45Pa				
010.0102.XX				
010.0112.XX				
010.0192.XX				
010.0412.XX				
010.0492.XX				
CS 59Pa				
CS 59				
CS 59-HV				
CS 59-Re				
CS 59-So				
CS 68				
CS 68-HV				
CS 68-Re				
CS 68-So				



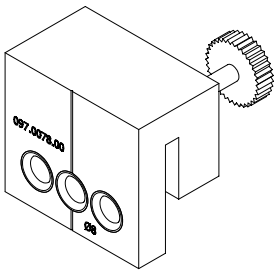
097.0637.00

KLEMBLOK
BLOC DE SERRAGE
CLAMP BLOCK
SPANNBACKE

BLOK DOCISKOWY

ES 45Pa				
010.0113.XX				
010.0114.XX				
010.0120.XX				
010.0813.XX				
CP 155				
CP 155-LS				
Eco system				
CS 86-HI				
Eco system-AP				
Eco system 75				

D2000163

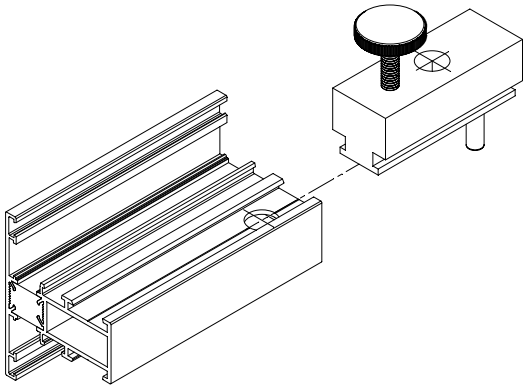


097.0078.00

BOORMAL ONTWATERING
CALIBRE DE PERCAGE DRAINAGE
BORING JIG DRAINAGE
BOHRLEHRE ENTWAESSERUNG

SZABLON DO DRENAZY

ES 45Pa
010.0113.XX
010.0114.XX
010.0120.XX
010.0136.XX
010.0140.XX
010.0183.XX
010.0813.XX



097.0645.00

BOORMAL T-VERBINDING
CALIBRE RACCORDEMENT-T
BORING JIG T-CONNECTION
BOHRLEHRE T-VERBINDUNG

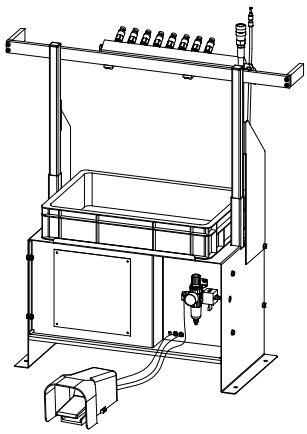
SZABLON DO POLACZEN TEOWYCH

ES 45Pa
010.0113.XX
010.0114.XX
010.0120.XX
010.0136.XX
010.0183.XX

PS 50-SP
TP 110
TP 138
CP 45Pa
Eco system
Eco system-AP
CP 45Pa (GR)

ES 45Pa

PONSUNIT T-VERBINDING
UNITE D'ETAMPER JONCTION-T
PUNCH UNIT T-BRACKET
STANZEINHEIT T-VERBINDUNG



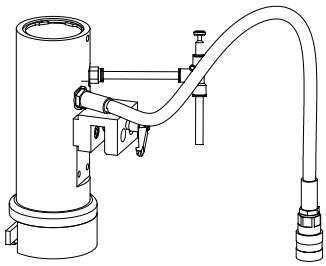
095.C500.00

HYDROPNEUMATISCH ONDERSTEL
CHASSIS HYDROPNEUMATIQUE
HYDRO-PNEUMATIC PRESS FRAME
HYDROPNEUMATISCHE STUETZE

HYDROPNEUMATYCZNA WSPORNIK

TOOLING

CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 68-FP
CS 77
CS 77-HV
CS 77-FP
Eco system
CS 86-HI
Eco system-AP
ES 45Pa



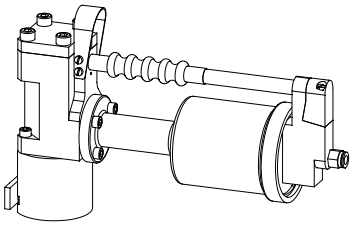
095.C600.00

CILINDER
CYLINDRE
CYLINDER
ZYLINDER

WKLADKA BEBENKOWA ZAMKA

TOOLING

CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 68-FP
CS 77
CS 77-HV
CS 77-FP
Eco system
CS 86-HI
Eco system-AP
ES 45Pa



095.C700.00

PNEUMATISCHE AANDRIJVING
PROPULSION PNEUMATIC
PNEUMATIC DRIVE
PNEUMATISCHE ANTRIEB

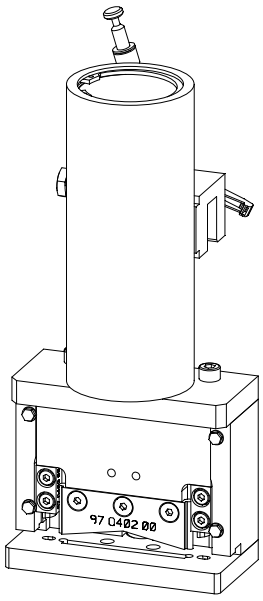
PNEUMATYCZNY NAPED

TOOLING

CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 68-FP
CS 77
CS 77-HV
CS 77-FP
Eco system
CS 38-SL
CS 86-HI
Eco system-AP
CS 38-SL/AP
ES 45Pa

D2000183

G

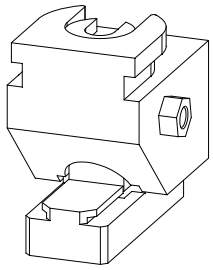


097.Q400.00

PONSUNIT KRUK
UNTE D'ETAMPER POIGNEE
PUNCH UNIT HANDLE
STANZEINHEIT HANDGRIFF

ES 45Pa
010.0102.XX
010.0112.XX
010.0192.XX

CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CS 77
CS 77-HV
CS 77-BP
Eco system
CS 38-SL
CS 86-HI
Eco system-AP
CS 38-SL/AP
CS 77-Re
CS 104
CS 77 Optima



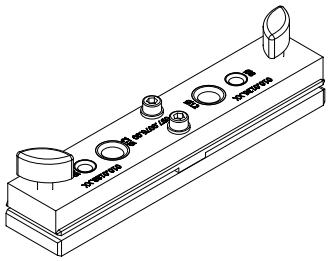
097.Q500.00

PONSUNIT KANAALOPENING
UNITE D'ETAMPER DECOUPE DU CANAL DE LA TRINGL
PUNCH UNIT CUT-AWAY LINKBAR CHANNEL
STANZEINHEIT AUSNEHMUNG DES SCHUBSTANGEKANALS

ES 45Pa
010.0102.XX
010.0112.XX
010.0192.XX
010.0412.XX
010.0492.XX

CS 59
CS 59-HV
CS 59-Re
CS 59-So
CS 68
CS 68-HV
CS 68-Re
CS 68-So
CW 50
CW 50-HI
CW 50-HL
CW 60
CR 120
CS 77
CS 77-HV
CS 77-BP
CW 50-SC
CW 50-SG
Eco system
CS 38-SL
CS 86-HI
Eco system-AP
CS 38-SL/AP
CW 60-SC
CW 60-HL
CS 77-Re
CW 65-EF

CS 104
CS 77 Optima
CW 50-VL

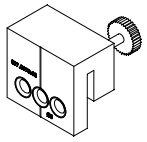


097.0076.00

BOORMAL SCHROEFHOEK
CALIBRE DE PERCAGE EQUERRE A VISSER
BORING JIG SCREW CORNER CLEAT
BOHRLEHRE SCHRAUBECKWINKEL

SZABLON DO POLACZEN NAROZNYCH SKRECANYCH

ES 45Pa
010.0136.XX
010.0183.XX

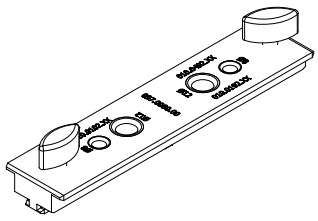


097.0078.00

BOORMAL ONTWATERING
CALIBRE DE PERCAGE DRAINAGE
BORING JIG DRAINAGE
BOHRLEHRE ENTWAESSERUNG

SZABLON DO DRENAZY

ES 45Pa
010.0113.XX
010.0114.XX
010.0120.XX
010.0136.XX
010.0140.XX
010.0183.XX
010.0813.XX



097.0080.00

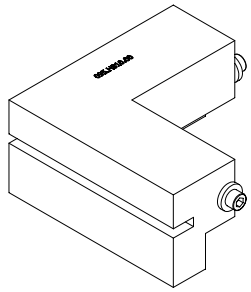
BOORMAL SCHROEFHOEK
CALIBRE DE PERCAGE EQUERRE A VISSER
BORING JIG SCREW CORNER CLEAT
BOHRLEHRE SCHRAUBECKWINKEL

SZABLON DO POLACZEN NAROZNYCH SKRECANYCH

ES 45Pa
010.0102.XX
010.0192.XX
010.0492.XX

D2000165

G



095.H810.00

PERSBLOK
ENCLUME
PRESS BLOCK
PRESSBLOK

BLOK DOCISKOWY

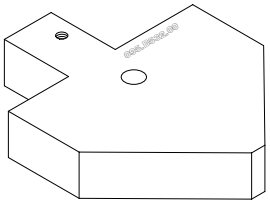
ES 45Pa				
010.0102.XX				
010.0112.XX				
010.0113.XX				
010.0114.XX				
010.0120.XX				
010.0136.XX				
010.0140.XX				
010.0183.XX				
010.0192.XX				
010.0412.XX				
010.0492.XX				

CP 130
CP 155
CP 155-LS
CW 50
CW 50-HI
CW 50-HL
CW 60
MOSQUITO
CS 77
CW 50-SC
CP 155-AP
CP 155-LS/AP
Eco system
Eco system-AP
CW 60-SC
CW 60-HL
CW 65-EF
CW 50-VL

CS 59Pa-SD
CS 59-SD
TP 110
TLS 110
CW 50-SG
CW 86-EF/HI
Eco system Optima
Eco system 75

D2000166

G

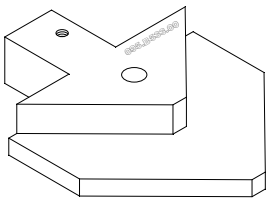


095.B532.00

PERSBLOK D=30MM L=ST
ENCLUME D=30MM L=ST
PRESS BLOCK D=30MM L=ST
PRESSBLOCK D=30MM L=ST

BLOK DOCISKOWY D=30MM L=ST

ES 45Pa	CW 50-HI	CP 96-AP	CW 65-EF/SG
010.0140.XX	CW 50-HL	CP 96-LS/AP	CW 65-EF/HI
	CW 60	TP 110-Re	CF 77
CS 59Pa	TR 200	Eco system	CS 77-SP
CS 59Pa-SD	MOSQUITO	CS 38-SL	CS 77 Optima
CS 59	CR 120	CS 86-HI	CF 77-AP
CS 59-HV	CS 77	Eco system-AP	CW 50-VL
CS 59-SD	CW 86	CS 38-SL/AP	
CS 68	CW 86-SG	CS 24-SL	CS 77-BP
CS 68-HV	CS 77-HV	CW 60-SC	Eco system Optima-AP
CS 68-Re	CW 50-SC	CW 60-HI	
TP 110	CW 50-SG	CW 60-HL	
CP 130	CP 155-AP	CS 24-SL/AP	
CP 130-LS	CP 155-LS/AP	CW 86-EF/HI	
CP 155	CP 96	CS 77-Re	
CP 155-LS	CW 86-EF	Eco system Optima	
CW 50	CP 96-LS	CW 65-EF	



095.B533.00

PERSBLOK D=11 L=ST-4MM
ENCLUME D=11 L=ST-4MM
PRESS BLOCK D=11 L=ST-4MM
PRESSBLOCK D=11 L=ST-4MM

BLOK DOCISKOWY D=11 L=ST-4MM

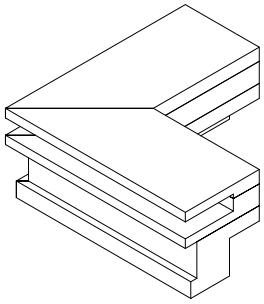
ES 45Pa	CS 59-So	CR 120	Eco system Optima
010.0102.XX	CS 59-CD	CS 77	Eco system 75
010.0112.XX	CS 59-SD	CS 77-HV	CF 77
010.0113.XX	CS 68	CS 77-BP	CS 104
010.0114.XX	CS 68-HV	CW 50-SC	CP 45Pa (GR)
010.0120.XX	CS 68-Re	CS 77-FP	CS 77-SP
010.0136.XX	CS 68-So	CP 155-AP	CS 77 Optima
010.0183.XX	TP 110	CP 155-LS/AP	CF 77-AP
010.0192.XX	TLS 110	CW 60-DRL	CW 50-VL
010.0412.XX	CP 130	CP 45Pa	
010.0492.XX	CP 130-LS	TP 110-Re	CS 68 Optima-AP
	CP 155	CS 68 Optima	Eco system Optima-AP
PS 50-SP	CP 155-LS	Eco system	
CS 59Pa	CW 50	CS 86-HI	
CS 59	CW 50-HI	Eco system-AP	
CS 59-HV	CW 60	CW 60-SC	
CS 59-Re	CS 68-FP	CS 77-Re	

D2000185

097.C000.00

PERSBLOK CONCEPT
ENCLUME CONCEPT
PRESS BLOCK CONCEPT
PRESSBLOCK CONCEPT

BLOK DOCISKOWY CONCEPT

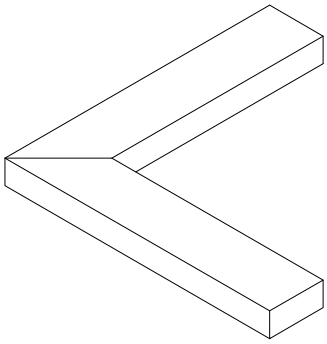


ES 45Pa 010.0102.XX 010.0112.XX 010.0192.XX 010.0412.XX 010.0492.XX CS 59 CS 68 CP 130 CP 130-LS CP 155 CP 155-LS CW 50-HI CS 68-FP CS 77 CP 155-AP	CP 155-LS/AP Eco system CS 86-HI Eco system-AP CW 60-HI CW 65-EF			

097.D300.00

HULPSTUK SETMATIC
ACCESSOIRE SETMATIC
ACCESSORY SETMATIC
ZUBEHOER SETMATIC

AKCESORIA SETMATIC

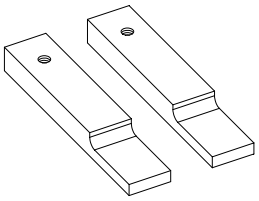


ES 45Pa 010.0102.XX 010.0112.XX 010.0192.XX CS 59Pa CS 59 CS 59-Re CS 59-So CS 68-Re CS 68-So CP 155 CP 155-LS CW 50 CW 50-HL CW 60 TR 200	MOSQUITO CR 120 CS 77 CW 50-SC CP 155-AP CP 155-LS/AP Eco system CS 38-SL CS 38-SL/AP CW 60-SC CW 60-HL CS 77-Re CW 65-EF Eco system 75 CW 50-VL CS 68	CS 68-FP		

D2000186

ES 45Pa

MESSEN
COUTEAUX
KNIVES
MESSER



095.B562.00

MESSEN D=7MM L=ST
COUTEAUX D=7MM L=ST
KNIVES D=7MM L=ST
MESSER D=7MM L=ST

NOZE D=7MM L=ST

ES 45Pa	CW 86-EF			
010.0102.XX	CP 96-LS			
010.0112.XX	CP 96-AP			
010.0113.XX	CP 96-LS/AP			
010.0114.XX	TP 110-Re			
010.0120.XX	CS 68 Optima			
010.0136.XX	Eco system			
010.0140.XX	CS 38-SL			
010.0183.XX	CS 86-HI			
010.0192.XX	Eco system-AP			
010.0412.XX	CS 38-SL/AP			
010.0492.XX	CS 24-SL			
	CW 60-SC			
PS 50-SP	CW 60-HI			
CS 59Pa	CW 60-HL			
CS 59Pa-AD	CS 24-SL/AP			
CS 59Pa-SD	CW 86-EF/HI			
CS 59	CS 77-Re			
CS 59-HV	Eco system Optima			
CS 59-Re	CW 65-EF			
CS 59-So	CW 65-EF/SG			
CS 59-SD	Eco system 75			
CS 68	CW 65-EF/HI			
CS 68-HV	CF 77			
CS 68-Re	CS 104			
CS 68-So	CP 45Pa (GR)			
TP 110	CS 77-SP			
TP 138	CS 77 Optima			
CP 130	CF 77-AP			
CP 130-LS	CW 50-VL			
CP 155				
CP 155-LS	MOSQUITO			
CW 50	CS 68 Optima-AP			
CW 50-HI	Eco system Optima-AP			
CW 50-HL				
CW 60				
TR 200				
CS 68-FP				
CR 120				
CS 77				
CW 86				
CW 86-SG				
CS 77-HV				
CS 77-BP				
CW 50-SC				
CW 50-SG				
CS 77-FP				
CP 155-AP				
CP 155-LS/AP				
CP 96				
CW 60-DRL				
CP 45Pa				

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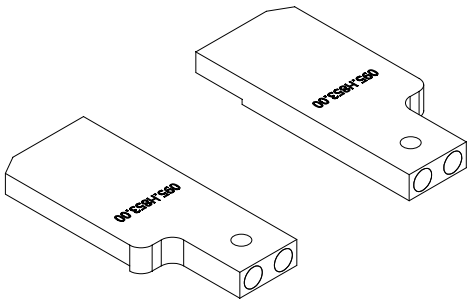

095.H853.00

MESSEN VOOR 095.H800.00 8MM
COUTEAUX POUR 095.H800.00 8MM
KNIVES FOR 095.H800.00 8MM
MESSER FUER 095.H800.00 8MM

NOZE DLA 095.H800.00 8MM

ES 45Pa	CS 38-SL
010.0102.XX	CS 86-HI
010.0112.XX	Eco system-AP
010.0113.XX	CS 38-SL/AP
010.0114.XX	CS 24-SL
010.0120.XX	CW 60-SC
010.0136.XX	CW 60-HI
010.0140.XX	CW 60-HL
010.0183.XX	CS 24-SL/AP
010.0192.XX	CW 86-EF/HI
010.0412.XX	CS 77-Re
010.0492.XX	Eco system Optima
	CW 65-EF
PS 50-SP	CW 65-EF/SG
CS 59Pa	Eco system 75
CS 59	CW 65-EF/HI
CS 59-HV	CF 77
CS 59-Re	CS 104
CS 59-So	CP 45Pa (GR)
CS 59-SD	CS 77-SP
CS 68	CS 77 Optima
CS 68-HV	CF 77-AP
CS 68-Re	CW 50-VL
CS 68-So	
TP 110	
TP 138	
CP 130	
CP 130-LS	
CP 155	
CP 155-LS	
CW 50	
CW 50-HI	
CW 50-HL	
CW 60	
CS 68-FP	
CR 120	
CS 77	
CS 77-HV	
CS 77-BP	
CW 50-SC	
CW 50-SG	
CS 77-FP	
CP 155-AP	
CP 155-LS/AP	
CP 96	
CW 60-DRL	
CP 45Pa	
CP 96-LS	
CP 96-AP	
CP 96-LS/AP	
CS 68 Optima	
Eco system	

D2000190

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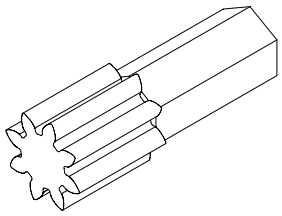


097.0754.00

BITS
BITS
BITS
BITS

GENERAL
CS 77-SP
CW 60
CW 60-SC
CW 60-HL

CP 130
CP 130-LS
CP 155
CP 155-LS
CW 50
CW 50-HL
CW 50-SC
Eco system
Eco system-AP
CW 65-EF
CF 77
CS 104
CF 77-AP
ES 45Pa

D2000191

095.E300.00

MANUEEL PISTOOL HDP 550
PISTOLET MANUEL HDP 550
MANUAL GUN HDP 550
MANUELLE SPRITZE HDP 550

095.E400.00

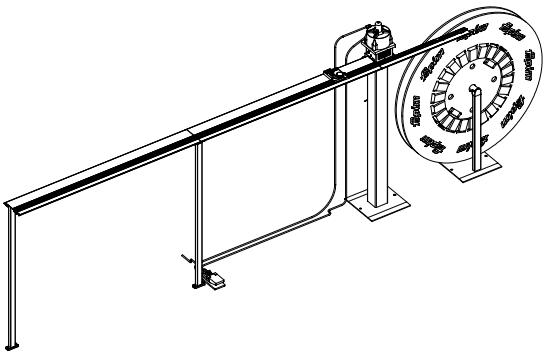
PISTOOL PNEUMATISCH DLP 550
PISTOLET PNEUMATIQUE DLP 550
PNEUMATIC GUN DLP 550
PNEUMATISCHE SPRITZE DLP 550

095.E500.00

HANDGREEP VOOR SCHUIM ROLLEN
POIGNEE POUR ROULEAUX DE MOUSSE
HANDLE FOR FOAM ROLLS
GRIFF FUR SCHAUMSTOFFROLLEN

ES 45Pa

PONSUNIT SLUITLATBEWERKING
UNITE D'OPERATION DANS LA TRINGLE
PUNCH UNIT LINKBAR OPERATION
STANZANHEIT SCHUBSTANGE BEARBEITUNG



097.Y000.00

PONSUNIT SLUITLATBEWERKING
UNITE D'OPERATION DANS LA TRINGLE
PUNCH UNIT LINKBAR OPERATION
STANZANHEIT SCHUBSTANGE BEARBEITUNG

ES 45Pa				

D0091888