

BS 100

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56.B.003	01/2008	D0062593	56.E.026	01/2008	D0061201
56.B.004	01/2008	D0062594	56.E.027	01/2008	D0061201
56.C.p01	01/2008		56.E.028	01/2008	D0061202
56.C.p02	01/2008		56.E.029	01/2008	D0061202
56.C.001	01/2008	D0061203	56.E.030	01/2008	D0062169
56.C.002	01/2008	D0061205	56.E.031	01/2008	D0062169
56.C.003	01/2008	D0061208	56.E.032	01/2008	D0062468
56.C.004	01/2008	D0061209	56.E.033	01/2008	D0062468
56.C.005	01/2008	D0061182	56.E.034	01/2008	D0067107
56.C.006	01/2008	D0061186	56.E.035	01/2008	D0067107
56.C.007	01/2008	D0061188	56.E.036	01/2008	D0061229
56.C.008	01/2008	D0061190	56.E.037	01/2008	D0061229
56.C.009	01/2008	D0061191	56.E.038	01/2008	D0062740
56.C.010	01/2008	D0061195	56.E.039	01/2008	D0062740
56.C.011	01/2008	D0061196	56.E.040	01/2008	D0062216
56.C.012	01/2008	D0061197	56.E.041	01/2008	D0062216
56.C.013	01/2008	D0061198	56.E.042	01/2008	D0062412
56.C.014	01/2008	D0061200	56.E.043	01/2008	D0062412
56.C.015	01/2008	D0061199	56.E.044	01/2008	D0062415
			56.E.045	01/2008	D0062415

					
56.E.046	01/2008	D0062229	56.F.015	01/2008	D0061235
56.E.047	01/2008	D0062229	56.F.016	01/2008	D0061236
56.E.048	01/2008	D0062452	56.F.017	01/2008	D0061236
56.E.049	01/2008	D0062452	56.F.018	01/2008	D0061270
56.E.050	01/2008	D0062454	56.F.019	01/2008	D0061270
56.E.051	01/2008	D0062454	56.F.020	01/2008	D0061273
56.E.052	01/2008	D0062231	56.F.021	01/2008	D0061273
56.E.053	01/2008	D0062231	56.F.022	01/2008	D0062679
56.E.054	01/2008	D0062317	56.F.023	01/2008	D0062679
56.E.055	01/2008	D0062317	56.F.024	01/2008	D0062682
56.E.056	01/2008	D0062320	56.F.025	01/2008	D0062682
56.E.057	01/2008	D0062320	56.F.026	01/2008	D0062674
56.E.058	01/2008	D0062321	56.F.027	01/2008	D0062674
56.E.059	01/2008	D0062321	56.F.028	01/2008	D0061238
56.E.060	01/2008	D0067119	56.F.029	01/2008	D0061238
56.E.061	01/2008	D0067119	56.F.030	01/2008	D0061239
56.E.062	01/2008	D0068260	56.F.031	01/2008	D0061239
56.E.063	01/2008	D0068260	56.F.032	01/2008	D0061240
56.E.064	01/2008	D0067254	56.F.033	01/2008	D0061240
56.E.065	01/2008	D0067254	56.F.034	01/2008	D0061241
56.E.066	01/2008	D0067255	56.F.035	01/2008	D0061241
56.E.067	01/2008	D0067255	56.F.036	01/2008	D0061246
56.E.068	01/2008	D0068399	56.F.037	01/2008	D0061246
56.E.069	01/2008	D0068399	56.F.038	01/2008	D0061248
56.E.070	01/2008	D0067284	56.F.039	01/2008	D0061248
56.E.071	01/2008	D0067284	56.F.040	01/2008	D0061249
56.E.072	01/2008	D0067314	56.F.041	01/2008	D0061249
56.E.073	01/2008	D0067314	56.F.042	01/2008	D0061250
56.E.074	01/2008	D0067703	56.F.043	01/2008	D0061250
56.E.075	01/2008	D0067703	56.F.044	01/2008	D0061254
56.E.076	01/2008		56.F.045	01/2008	D0061254
56.F.001	01/2008		56.F.046	01/2008	D0061255
56.F.002	01/2008	D0061215	56.F.047	01/2008	D0061255
56.F.003	01/2008	D0061215	56.F.048	01/2008	D0061256
56.F.004	01/2008	D0061222	56.F.049	01/2008	D0061256
56.F.005	01/2008	D0061222	56.F.050	01/2008	D0061258
56.F.006	01/2008	D0061226	56.F.051	01/2008	D0061258
56.F.007	01/2008	D0061226	56.F.052	01/2008	D0061259
56.F.008	01/2008	D0061265	56.F.053	01/2008	D0061259
56.F.009	01/2008	D0061265	56.F.054	01/2008	D0061261
56.F.010	01/2008	D0061269	56.F.055	01/2008	D0061261
56.F.011	01/2008	D0061269	56.F.056	01/2008	D0061262
56.F.012	01/2008	D0061232	56.F.057	01/2008	D0061262
56.F.013	01/2008	D0061232	56.F.058	01/2008	D0062989
56.F.014	01/2008	D0061235	56.F.059	01/2008	D0062989

					
56.F.060	01/2008	D0067779			
56.F.061	01/2008	D0067779			
56.F.062	01/2008				
56.G.a01	01/2008				
56.G.a02	01/2008				
56.G.001	01/2008				
56.G.002	01/2008	D0062643			
56.G.003	01/2008	D0062644			
56.G.004	01/2008	D0062645			
56.G.005	01/2008	D0061243			
56.G.006	01/2008	D0061251			
56.G.007	01/2008	D0061260			
56.G.008	01/2008	D0061263			
56.G.009	01/2008	D0061264			
56.G.010	01/2008	D0061350			
56.G.011	01/2008	D0061352			
56.G.012	01/2008	D0062155			
56.G.013	01/2008	D0061353			
56.G.014	01/2008	D0061354			
56.G.015	01/2008	D0061355			
56.G.016	01/2008	D0061356			
56.G.017	01/2008	D0062156			
56.G.018	01/2008	D0067198			
56.G.019	01/2008	D0067203			
56.G.020	01/2008	D0062158			
56.G.021	01/2008	D0062160			
56.G.022	01/2008	D0061266			
56.G.023	01/2008	D0061271			
56.G.024	01/2008	D0067196			
56.G.025	01/2008	D0061272			
56.G.026	01/2008	D0062161			
56.G.027	01/2008	D0062162			
56.G.028	01/2008	D0062163			
56.G.029	01/2008	D0067194			
56.G.030	01/2008	D0062164			
56.G.031	01/2008	D0062166			
56.G.032	01/2008	D0062167			
56.G.033	01/2008	D0062130			
56.G.034	01/2008	D0062132			
56.G.035	01/2008	D0062168			
56.G.036	01/2008				

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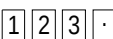


Algemene informatie

Généralités

General Information

Allgemeine Information

	Profiel Profilé Profile Profil	Perfil Profil Profil		Verstek Onglet Mitre Gehrung	Inglete Polaczenie katowe Taglio
	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		Aantal Nombre Number Anzahl	Número Ilość Numero
	Polijsoppervlakte Surface à polir Polishing surface Polieroberfläche	Superficie pulida Powierzchnia polerowana Superficie lucidata		Zie pagina Voir page See page Siehe Seite	Ver página Patrz strona Vedi pagina
	Langte Longueur Length Länge	Longitud Długość Lunghezza		Type toebehoren Type accessoires Type accessories Typ Zubehör	Tipos de accesorios Rodzaj okuc Tipo di accessorio
	Afmetingen Dimensions Dimensions Abmessungen	Dimensiones Wymiary Dimensioni		Glasmaten Dimensions vitres Glass sizes Glasmasse	Dimensiones de los vidrios Wymiary szyby Dimensioni del vetro
	Toepassing Application Application Anwendung	Aplicación Zastosowanie Utilizzo		Toepassing Application Utilization Anwendung	Aplicación Zastosowanie Riferimenti
	Bevestigingsmiddelen Moyens de fixation Fixations Befestigungsmittel	Fijación Mocowanie Fissaggio		Asymmetrisch profiel Profilé asymétrique Asymmetrical profile Asymmetrisches Profil	Perfil asimétrico Profil niesymetryczny Profilo asimmetrico
	Schroeven niet meegeleverd Fourniture sans vis Delivered without screws Lieferung ohne Schrauben	Entregado sin tornillos Dostarczane bez wkrętów Consegnato senza viti		Pagina Page Page Seite	Página Strona Pagina
	Montagevolgorde Ordre de montage The order of assembly Montagereihenfolge	Orden de montaje Kolejność montażu Ordine di montaggio		Laatste editie Dernière édition Last edition Letzte Edition	Edición Poprzednie wydanie Ultima edizione
	Dichtingsmiddel Matière d'étanchéité Sealing agent Abdichtungsmittel	Agente sellante Masa uszczelniająca Siliconatura		Vorige blz Page précédente Previous page Vorige Seite	Página siguiente Poprzednia strona -
	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 Secundaire zichtzijde van een profiel Côté visible secondaire d'un profilé Secondary visible side of a profile Sekund. sichtbare Seite eines Profils	Cara vista principal del perfil Główna widoczna powierzchnia profilu Primo lato visibile di un profilo Cara vista secundaria del perfil Drugorzędna widoczna powierzchnia profilu Secondo lato visibile di un profilo			
	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 kolejności powinny być wskazany kolor zewnętrznej strony profilu (e) Nei profili bicolore (.69) prima di tutto indicare il colore del profilo esterno (e)			

	Inbraakwerend Anti-vol Burglar proof Einbruchhemmend	Protección anti- robo Antywłamaniowe -		Pershoekverbinding Equerre à serti Crimp corner cleat Presseckverbinder	Escuadra de ensamblar Naroznik zaciskany Squadrette a cianfrinare
	Basisveiligheid Sécurité de base Basic safety Basissicherheit	Seguridad básica Antywłamaniowosc podstawowa -		Hoekverbinding met schroef (*) 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 zatraskiwanych Squadrette ad avvitare (*) solo per accessori a scatto
	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 Prüfungen durch das gemäss Norm DIN V ENV 1627	Ensayos realizados según norma DIN V ENV 1627 Badania wykonane według normy DIN V ENV 1627 -		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
	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 Prüfungen durch das gemäss Norm NEN 5096 + ENV 1627	Ensayos realizados según norma NEN 5096 + ENV 1627 Badania wykonane norm NEN 5096 + ENV 1627 -		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 ausssen öffnendes Fenster	Tope Unión con tornillo apertura exterior Lacznik teowy skrecany do okien otwieranych na zewnatrz -
	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 Prüfungen durchgeführt durch das 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) według norm Ö B 3800/3850 -		Vulhoek Equerre de remplissage Corner support Fülleckwinkel	Escuadra de relleno Wspornik narozny Supporto d'angolo
	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 Prüfungen durchgeführt durch das TNO (Die Niederlande) gemäss Norm NEN 6069:1997	Ensayos realizados fuera por TNO(Holanda) según norma NEN 6069/1977 Badania wykonane przez TNO (Holandia) według norm NEN 6069/1977 -		Steunhoek Cale de feuillure Rebate support Glasanschlagwinkel	Escuadra de alineamiento Katowy naroznik Squadrette di allineamento
	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 Prüfungen durchgeführt durch das TNO (Die Niederlande) gemäss Norm NEN 6069:1997	Ensayos realizados fuera por TNO(Holanda) según norma NEN 6069/1977 Badania wykonane przez TNO (Holandia) według norm NEN 6069/1977 -		Verstelbare schroefhoek Equerre à visser réglable Adjustable screw corner cleat Verstellbarer Schraubeckwinkel	Escuadra de atornillar regulable Katowy naroznik skrecany Squadrette ad avvitare regolabili
	Brandwerend Anti-feu Fire-proof Feuerhemmend	Resistente al fuego Ognioodporne -		Steunhoeken verstelbaar Cales de feuillure réglables Rebate supports adjustable Verstellbare Eckwinkel Glasanschlag	Escuadra de alineamiento regulable Katowy naroznik nastawny Squadretta di allineamento regolabile
	Toebehoren brandwerend Accessoires anti-feu Fire-proof accessories Feuerhemmender Zubehör	Accesorios resistente al fuego Akcesoria ognioodporne -		Hoekverbinding met nagel Equerre avec cheville Corner cleat with drive pin Eckverbinder mit Stift	Escuadra con clavia Lacznik narozny sworzniowy -
	Gelaagd glas Verre feuilleté Laminated glass Verbundglas	Vidrio Laminado Szyba laminowana -		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 -
	Glas Verre Glass Glas	Vidrio Szyba -		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 ausssen öffnendes Fenster	Tope unión con clavia apertura exterior Lacznik teowy sworzniowy do okien otwieranych na zewnatrz -
	Handleiding Manuel Manual Gebrauchsanweisung	Manual Instrukcja -		Verstelbare T-verbinding Jonction-T réglable Adjustable T-bracket Verstellbarer T-Verbinder	Union T regulable Lacznik teowy nastawny Giunti a T regolabili
	Alleen voor CS 59 Seulement pour CS 59 Only for CS 59 Nur für CS 59	Solo para CS 59 Tylko do CS 59 -		Kruisverbindingen Jonctions transversales Cross connections Kreuzverbindungen	Uniones transversales Polaczenie krzyzowe -
	Alleen voor CS 68 Seulement pour CS 68 Only for CS 68 Nur für CS 68	Solo para CS 68 Tylko do CS 68 -		Kruisverbinding met schroef Jonction transversale avec vis Cross connection with screw Kreuzverbindung mit Schraube	Union transversal con tornillo Polaczenie krzyzowe skrecane -
	Alleen voor CS 77 Seulement pour CS 77 Only for CS 77 Nur für CS 77	Solo para CS 77 Tylko do CS 77 -		Bevestiging drager Fixation chevon Fixation rafter Befestigung Dachsparren	Fijacion mainel Mocowanie krokwi -

	Eénpuntsluiting Fermeture à 1 point 1-Point lock Einfachverriegelung	Cerradura de 1 punto Zamek 1-punktowy Serratura a 1 punto di chiusura		Elektrische deuropener Gâche pour serrure électrique Electric door opener Elektrischer Türöffner	Portero automatico Elektrorygiel Apertura porta elettrica
	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 fermo		Deurgrendels en kantschuiven Verrous de condamnation portes Flush and door bolts Kantriegel und Türriegel	Pasadores puerta Rygle biernych skrzydeł drzwiowych Catenacciolo chiusura centrale
	Eénpuntsluiting met rol Fermeture à 1 point à rouleau 1-Point lock with roller Einfachverriegelung mit Rolle	Cerradura de 1 punto con rodillo Zamek 1-punktowy z baryłka Serratura a 1 punto di chiusura con rullino		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 napięcia w przypadku zamkniętych drzwi -
	Haakslot Serrure à crochet Hook lock Hakenschluss	Cerradura gancho Zamek hakowy -			-
	Tweepuntsluiting Fermeture à 2 points 2-Point lock 2-Fachverriegelung	Cerradura de 2 puntos Zamek 2-punktowy Serratura a 2 punti di chiusura		Raampompen Crémones Window handles Handhebel	Cremona Klamka okienna Cremonese
	Driepuntsluiting Fermeture à 3 points 3-Point lock Dreifachverriegelung	Cerradura de 3 puntos Zamek 3-punktowy Serratura a 3 punti di chiusura		Deurkrukken Béquilles Door handles Türdrücker	Manubrios Klamka drzwiowa Maniglie
	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 baryłka Serratura a 3 punti di chiusura con rullino		Sluitingen dubbele deur Serrures pour porte double Locks for double door Türtreibriegel	Cerradura puerta doble Blokada drzwi dwuskrzydłowych Serratura porta a 2 ante
	Vierpuntsluiting Fermeture à 4 points 4-Point lock 4-Fachverriegelung	Cerradura de 4 puntos Zamek 4-punktowy Serratura a 4 punti di chiusura		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 zewnątrz -
	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 baryłka Serratura a 5 punti di chiusura con rullino		Raamscharnieren Paumelles pour fenêtres Window hinges Fensterbänder	Bisagras ventana Zawias okienny Cerniere
	Zespuntsluiting Fermeture à 6 points 6-Point lock 6-Fachverriegelung	Cerradura de 6 puntos Zamek 6-punktowy Serratura a 6 punti di chiusura		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
	Zevenpuntsluiting Fermeture à 7 points 7-Point lock Siebenfachverriegelung	Cerradura de 7 puntos Zamek 7-punktowy Serratura a 7 punti di chiusura		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
	Espagnoletslot Fermeture espagnolette Espagnolette Lock Treibriegelverschluss	Cierre ventana Zamek drzwiowy do blokady pionowej Serratura a spagnoletta		Afstandsbussen Pièces de distance Set of distance bushes Distanzbuchsen	Piezas distanciadoras Tuleje dystansowe Set distanziali spazzolino
	Cilinders Cylindres Cylinders Zylinder	Bombines Cylindry Cilindri		Geen afstandsbussen nodig Pas de pièces de distance No distance bushes needed Keine Distanzbuchse	No necesario piezas distanciadoras Brak konieczności stosowania tuleji dystansowych -
	Cilinderplaten Ecussons Cylinder covers Pz-Rosette	Escudos bombin Osłona wkładki bebenkowej Copertura cilindri		Inbraakwerende kogel Bille anti-vol Anti-burglar ball Einbruchhemmend Kugel	Bola proteccion antirobbo Kulka antywłamaniowa -
	Slotpads Gâches Receivers Schliessbleche	Gancho Gniazdo rygla zamka Riscontri		Dieveklauw Pene anti-degondage Anti-lift pin Sicherheitsbolzen	Perno antielevador Bolec antywyważeniowy -
	Deursluiters Ferme-porte Door closer Türschliesser	Cierrapuertas Samozamykacz drzwiowy Chiusura porta		Kozijndorpelveer Pivot de frein aerien Overhead closer Rohr Türschliesser	Muelle aereo Samozamykacz gorny -
				Vloerveer Pivot de frein au sol Floor closer Bodentürschliesser	Muelle pavimento puerta Samozamykacz podłogowy -



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

Tapeta hoja puerta
Koncowka do skrzydła
drzwiowego
Terminale anta



Binnenbeglazingsdichting
Joint à bourrer
Inner glazing gasket
Innenverglasungsdichtung

Junta de acristalado interior
Uszczelka przyszybowa wewnętrzna
Guarnizione del vetro interna



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

Piezas terminales perfil suelo
Koncowki profilu
podłogowego
Terminale soglia



Buitenbeglazingsdichting
Joint de vitrage extérieur
Outer glazing gasket
Aussenverglasungsdichtung

Junta de acristalado exterior
Uszczelka przyszybowa zewnętrzna
Guarnizione del vetro esterna



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

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



Buitenbeglazingsdichting
Joint de vitrage extérieur
Outer glazing gasket
Aussenverglasungsdichtung

Junta de acristalado exterior
Uszczelka przyszybowa zewnętrzna
Guarnizione del vetro esterna



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

Tapetas condensacion
Koncowki do profili podokiennych
Coprifilo terminale



Akoestische dichting
Joint acoustique
Acoustical seal gasket
Flügelaußschlagdichtung

Junta acustica
Uszczelka akustyczna
Guarnizione di isolamento acustico



Glassteunen
Supports cale de vitrage
Glazing supports
Klotzbrücken

Soportes vidrio
Podporka pod przeszklenie
Supporti per vetro



Middendichtingen
Joints centraux
Central gaskets
Mitteldichtungen

Junta central
Uszczelka centralna
Guarnizione centrale



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

Deflector aire
Maskownica otworu
drenazowego
Paratempesta



Aanslagdichting
Joint de butée
Butt strip
Anschlagdichtung

Junta tope
Uszczelka dylatacyjna
Guarnizione di battuta



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

Tapetas perfil doble hoja
Koncowka profilu
ruchomego słupka
Parte finale di un profilo
ad inversione



Dilatatiedichtingen
Joints de dilatation
Expansion gaskets
Dehnungsdichtungen

Junta de dilatacion
Uszczelka dylatacyjna
Guarnizione di espansione



Koppelstuk
Pièce de raccordement
Connection piece
Kupplungsstueck

Pieza de union
Element Łaczacy



Dichting
Joint
Gasket
Dichtung

Junta
Uszczelka
Guarnizione



Eendstukken 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 słupka



Dichting
Joint
Gasket
Dichtung

Junta
Uszczelka
Guarnizione



Afdichtingsstuk
Pièce d'étanchéité
Sealing piece
Abdichtung

Pieza de sellado
Element uszczelniający
Sigillante



Afdichting goot
Fermeture gouttière
End piece gutter
Endkappe Rinne

Tapetas canal
Koncowka rynny



Dichting veranda
Joint véranda
Gasket veranda
Dichtung Wintergarten

Junta veranda
Uszczelka do werandy



Eendstuk
Pièce finale
End piece
Endkappe

Terminal
Koncowka
Terminale



Borsteldichtingen
Joints brosse
Brushes
Bürstendichtungen

Cepillos
Szczotki
Spazzole



Stootplaat
Arrêt vitrage toiture
Glass panel stop
Endstück Verglasung

Tope del panel de vidrio
Ogranicznik wypełnienia



Isolerend vulstuk
Pièce de remplissage isolante
Insulating filling piece
Isolierendes Füllstück

Pieza de relleno aislante
Wkładka izolacyjna



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

Veranda tipo 1
Weranda typu 1



Einddichting
Joint d'assemblage
End gasket
Enddichtung

Junta
Uszczelka końcowa
Guarnizione



Stolp-kipraam
Fenêtre double ouvr.-batt.
Double casem.-tilt window
Stulpfenster D/DK

Ventana abatible doble hoja
Okno rozwierano-uchylne
dwuskrzydłowe
Finestra a 2 ante ribalta



Paniekdeur
Porte de panique
Panic door
Paniktür

Puerta antipánico
Drzwi antypaniczne
-



Draaikip
Oscillo-battant
Turn and tilt
Drehkipp

Oscilobattiente
Okno rozwierno-uchylne
Anta ribalta



Diversen
Divers
Miscellaneous
Diverse

Diversos
Elementy uzupełniające
Varie



Kipdraai
Battantes-ouvrantes
Tilt and turn
Kippdreh

Batiente oscilante
Okno uchylno-rozwierane
Anta ribalta inversa



Klemstuk
Clip
Uchwyty
Clip
Federklemme

Clip
Uchwyty
Clip



Draairaam
Fenêtre ouvrante
Side-hung window
Drehfenster

Ventana practicable
Okno rozwierane
Battente



Nokbevestiging
Fixation de la faîtière
Fixation of the ridge
Firstanschluss

Fijación del resalte
Element mocujący kalenicowy
-



Stolpraam
Fenêtre double ouvrant
Double casement window
Stulp-Flügel Fenster

Ventana doble hoja
Okno rozwierane wuskrzydłowe
Finestra a 2 ante



Isolatie
Isolant
Insulation
Isolation

Aislamiento
Izolacja
-



Valraam
Fenêtre à soufflet
Bottom hung window
Kipp-Fenster

Ventana abatible
Okno uchylne
Wasistas



Brievenkleppen
Entrées de courrier
Letter boxes
Briefeinwurf

Buzones
Skrzynka na listy
-



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
-



Automatische deurichtingen
Fermetures automatiques
Automatic door latches
Automatische Türdichtungen

Cierrapuestas automáticas
Drzwiowa automat. opadająca listwa
Dispositivo di chiusura soglia



Variant
Variante
Variant
Variante

Variante
Wariant
Variante



Buitendraaiend raam
Fenêtre ouvrant vers l'extérieur
Outside opening window
Nach aussen öffnendes Fenster

Ventana apertura exterior
Okno otwierane na zewnątrz
Finestra ad apertura esterna



Verankeringen
Ancrages
Fixing lugs
Verankerungen

Anclajes
Kotwy
Ancoraggio



Uitzetakraam
Châssis à l'italienne
Top-hung window
Senk-Klappfenster

Ventana proyectante con compas
Okno wychylne na zewnątrz
Sporgere con frizioni



Sluitpennen en sluitstukken
Rouleaux et gâches
Lock pins and lock plates
Schliesslerollen und Schliesserstücke

Bulones y cerraderos
Płytki i kolek ryglujące
-



Tuimel- en taatsraam
Châssis pivotant
Pivot window
Schwingflügel

Ventana pivotante
Okno obrotowe
-



Goot
Gouttière
Gutter
Rinne

Canal
Rynna
-



Vouwdeur (MP)
Porte pliante (MP)
Folding door (MP)
Falttür (MP)

Puerta plegable (MP)
Drzwi harmonijkowe (MP)
-



Dakvenster
Tabatière
Attic window
Dachfenster

Ventana de techo
Okno dachowe
Lucernario



Schuifkip (TF)
Couissant-tombant (TF)
Slide and tilt (TF)
Schiebekipptür (TF)

Paralela
Uchylno-przesuwny
-



Kunststof dakbedekking
Toiture synthétique
Synthetic roofing
Kunststoff Dachdeckung

Cubierta en material sintético
Wypełnienie poliwęglanem na dachy
-



Schuifraam
Fenêtre coulissante
Sliding window
Schiebefenster

Ventana corredera
Okno przesuwne
-



Zelfklevende dubbelzijdige tape
Bande autocollante 2 faces
Self-adhesive double sided tape
Selbstklebendes beidseitiges Band

Cinta autoadhesiva de dos caras
-



Parallel opengaand raam
Fenêtre ouvrant parallèle
Parallel opening window
Parallelausstellfenster

Ventana proyectante paralela
Okno równoległe wysuwane na zewnątrz
Sporgere parallelo



Domotica
Domotique
Domotics
Domotik

Domótica
Domotica
-



Kipraam
Fenêtre battante
Tilt window
Kippfenster

Oscilo
Okno uchylne
-



Profielen met hoge isolatiewaarde
Profils avec valeur d'isolation élevée
Profiles with high insulation value
Profile mit hohem Isolationwert

Perfiles alto aislamiento térmico
Profil o wysokiej izolacyjności
termicznej
-



Dubbele deur buitendraaiend
Porte double ouvrant vers l'ext.
Double door outward opening
Zweiflügelige Tür aussen öffnend

Puerta doble apertura exterior
Drzwi dwuskrzydłowe otw. na zew.
-



Wielen
Galets
Rollers
Laufwagen

Ruletas
Wózki
Carrelli



Deur binnendraaiend
Porte ouvrant vers l'int.
Door inward opening
Tür nach innen öffnend

Puerta apertura interior
Drzwi otw. do wewnątrz
Porta apertura interna



Regeltringels
Tringles de réglage
Adjustment rods
Regulierstange

Varilla de ajuste
Listwy regulacyjne
-



Deur buitendraaiend
Porte ouvrant vers l'ext.
Door outward opening
Tür aussen öffnend

Puerta apertura exterior
Drzwi otw. na zewnątrz
Porta apertura esterna



Geleidingsplaat
Guide
Guide plate
Führung

Placa guía
Element naprowadzający
-



Gereedschap
Outillage
Tool
Werkzeug

Util
Narzędzie
Utensile



Hydropneumatische pers
Presse hydropneumatique
Hydropneumatic press
Hydropneumatische Presse

Prensa neumática
Prasa hydropneumatyczna
-



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
Narzędzia i maszyny do drenazy ościeżnic
Utensili e macchinari per il drenaggio del telaio



Zaagmachine
Tronçonneuse
Sawing machine
Kreissäge

Maquina de corte
Pila do cieć przestrzennych
Macchina per taglio



Hoekenpers
Sertisseuse
Crimper
Eckverbindungsmaschine

Ensambladora
Zaciskarka narozy
Cianfrinatrice



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
Narzędzia i maszyny do drenazy skrzydeł
Utensili e macchinari per il drenaggio dell'anta



Handmatrijs
Matrice manuelle
Manual punch tool
Handstanzwerkzeug

Prensa manual
Wykrojnik ręczny
Punzonatrice manuale



Gereedschap voor lijninjectie
Outillage pour encollage
Tool for injection
Werkzeug fuer kleberinjektion

Util para inyección
Narzędzie do wtrysku kleju
Utensile scarico per colla



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 topos de unión
Narzędzia i maszyny do polaczen teowych
Utensili e macchinari per i giunti



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

Util para manetas
Narzędzie do klamek
Utensile per maniglie



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

Util para barras union
Narzędzie do listew sterujących okuciami
Utensile per barre di collegamento



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

Utiles y maquinaria para el cierre
Narzędzia i maszyny do zamknięć
Utensili e macchinari per le chiusure



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

Util para topos de union
Narzędzie do polaczen Teowych
Utensile per travesi



Klemblokken
Blocs de serrage
Clamping blocks
Spannbacken

Bloques de presión
Blokki zaciskowe
Blocchetti di supporto



Multifunctionele matrijs
Matrice multifonctionnelle
Multifunctional punch tool
Mehrzweckstanzwerkzeug

Matriz multifuncional
Wykrojnik wielofunkcyjny
Punzonatrice multifunzionale



Gereedschap voor ontwatering buitenkaders
Outillage pour drainage dormants
Tool for drainage outer frames
Werkzeug fuer entwaesserung blendrahmen

Util drenaje marco
Narzędzie do drenazy ościeżnic
Utensile per drenaggio telaio



Geleide matrijs
Matrice guidée
Punch tool
Stanzwerkzeug

Matriz
Wykrojnik
Punzonatrice



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

Util union esquina
Narzędzie do polaczen narożnych
Utensile per connessioni d'angolo



Handmatig gereedschap
Outillage manuel
Manual tools
Handwerkzeuge

Util manual
Narzędzie ręczne
Dime



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

Util para colocación
Narzędzie do montażu
-



Freessjabloon
Calibre de fraisage
Stencil plate for milling head
Fräseschablone

Plantilla para copiadora
Szablon do frezarki
Maschera per fresa



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

Util para cierrapuertas
Narzędzie do samozamykacza drzwiowego
-



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

Copiadora de un cabezal
Frezarka z jedna głowica
Fresa di copia a 1 mandrino



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

Util para bisagras
Narzędzie do zawiasów
-



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

Copiadora taladradora
Frezarka z wiertarką
Trapano e fresa



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

Util para cerraduras
Narzędzie do zamka
-



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

Util para encuentros centrales
Narzędzie do przekrojów
-



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

Util para acristalamiento
Narzędzie do przeszkleń
-



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

Utiles para varias aplicaciones
Narzędzie do montażu elementów uzupełniających
-



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

Util para juntas
Narzędzie do uszczelki
-



Pneumatische aandrijving
Propulsion pneumatic
Pneumatic drive
Pneumatische Antrieb

Destornillador neumatico
Pneumatyczny naped
-



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

Util para fijación de ruletas
Narzędzie do montażu wózków
-



Ponsunit
Unité d'étampier
Punch unit
Stanzereinheit

Punzon
Wykrojnik
-



Land
Pays
Country
Land

Pais
Kraj
-



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

Util para drenaje hoja
Narzędzie do drenażu skrzydła
-



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

Longitud mínima del perfil
Minimalna długość profilu
-



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 montażu górnego sworznia w oknie
-



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

Longitud máxima del perfil
Maksymalna długość profilu
-



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

Altura máxima del perfil
Maksymalna wysokość profilu
-



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 montażu dolnego sworznia w skrzydle
-



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

Movimiento horizontal máximo
Maksymalny ruch poziomy
-



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

Rango de corte a inglete horizontal
Zakres katów poziomych
-



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 montażu górnego sworznia w skrzydle
-



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

Rango de corte a inglete vertical
Zakres katów pionowych
XXX



Motor
Moteur
Motor
Antrieb

Motor
Silownik napędowy
-



Monteertafel
Table de montage
Assembly bench
Montagetisch

Banco de montaje
Stół montażowy
-



Gewicht
Poids
Weight
Gewichte

Pesos
Ciężar
-



Elektrische aansluiting
Fixation électrique
Electric connection
Elektrisches Anschluss

Conexión eléctrica
Polaczenie elektryczne
-



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

Velocidad de sierra
Maksymalna predkosć obrotowa
-



Compressor
Compresseur
Compressor
Kompressor

Compresor
Kompresor
-



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

Bola Dr. Hahn
Kulka Dr. Hahn
-



Mechanische aansluiting
Fixation mécanique
Mechanical connection
Mechanisches Anschluss

Conexión mecánica
Polaczenie mechaniczne
-

B



Algemene informatie systemen

Généralités séries

General Information System

Allgemeine Information System

VERWERKINGSVOORSCHRIFTEN

I ALGEMEEN

Zie catalogus "1.Algemene informatie" (099.C01E.00 editie 11/2004)

II VERWERKINGSVOORSCHRIFTEN BS 100

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 Reynalube (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;
- 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 het product.

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.

II.1.2 Bescherming bewerkte profielen

Stappen:

- a. Aftekenen bewerkingen
- b. Correct boren en zagen
- c. Beschermen van de bewerkte vlakken door:
 - ontbramen (indien noodzakelijk);
 - verwijderen van stof en zaagresten op de zaagsnede en in de profielkamer;
 - ontvetten (Degreaser art. nr. 086.9182.--);
 - aanbrengen van anticorrosieproduct (Anticorro art. nr. 086.9610.--); droogtijd: ca. 1 uur.

III ALGEMENE INFORMATIE

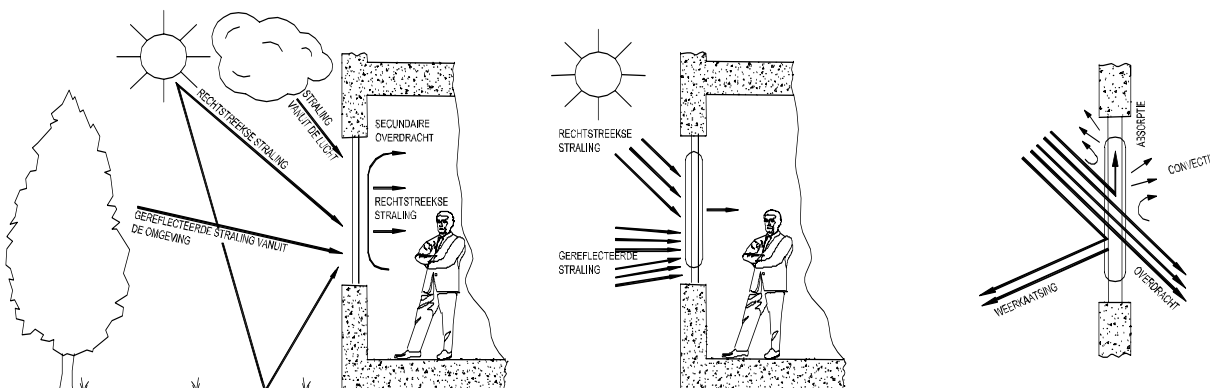
III.1 WAAROM ZONWERING ?

De aandacht voor energiegebruik in gebouwen is een relatief recent fenomeen. Het laatste decennium heeft men vastgesteld dat de problematiek van energiezuinig bouwen beduidend complexer is dan goed isoleren en het binnenhalen van gratis zonne-winsten.

Eén van de grote uitdagingen is een goede beheersing van de zon- en lichttoetreding.

Wanneer de zonnestraling op een venster valt, zal een deel van de straling worden teruggekaatst, een ander deel wordt doorgelaten en nog een ander deel wordt door het glas geabsorbeerd. Deze laatste fractie wordt omgezet in warmte en wordt daarna uitgestraald naar beide zijden van het glas. Het totale percentage energie dat door een venster naar binnen treedt wordt Absolute Zontoetredingsfactor, ZTA of g-waarde genoemd, en is de maatstaf van de efficiëntie van de zonwerendheid van dat glas.

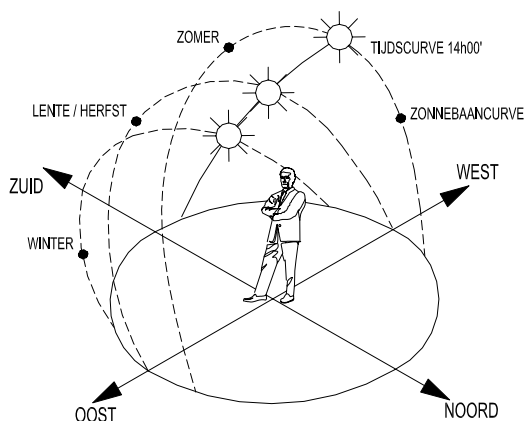
Wanneer het glas beschermd wordt door een zonwering, zal het gedeelte van de zonnestraling dat doorgelaten wordt door het glas én de zonwering sterk verminderen, het gedeelte dat door beide teruggestraald wordt, zal stijgen.



III.2 ZONNESTAND VOOR DE VERSCHILLENDE SEIZOENEN :

De stand van de zon verschilt van uur tot uur en van dag tot dag, en bereikt haar hoogste stand voor een zuidgevel op 21 juni om 12h00' zonnetijd en haar laagste stand op 21 december ook om 12h00' zonnetijd. Om dit dynamisch proces van verschillende zonnestanden te visualiseren wordt gebruik gemaakt van het zonnediagram waar de zonnebaancurves en de tijdscurves grafisch worden voorgesteld.

Voorbeeld : (Brussel 50° NB)



III.3 BEREKENEN VAN SCHADUWHOEKEN I.F.V. GEVELORIËNTATIE :

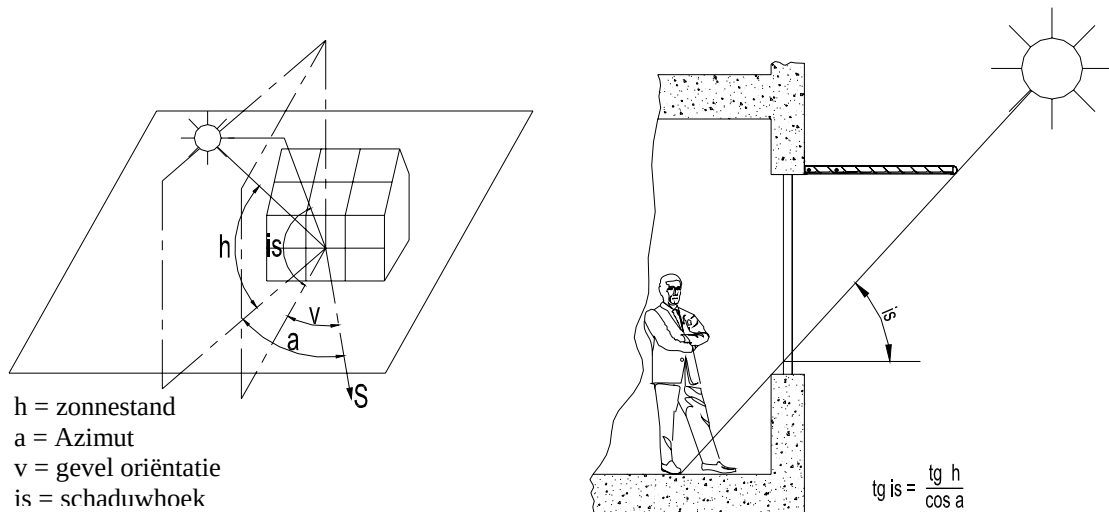
Tijdens de ontwerpfase is het belangrijk om een gebouw zo efficiënt mogelijk te vrijwaren van directe zonne-instraling. Hierbij is een goed evenwicht nodig tussen enerzijds zonwerend vermogen en anderzijds maximale toetreding van natuurlijk daglicht, wat aanzienlijk het visueel comfort verhoogt in een kantoorruimte.

Het spreekt vanzelf dat de oriëntatie van de verschillende gevels bepalend is voor de keuze en de dimensionering van het type zonwering.

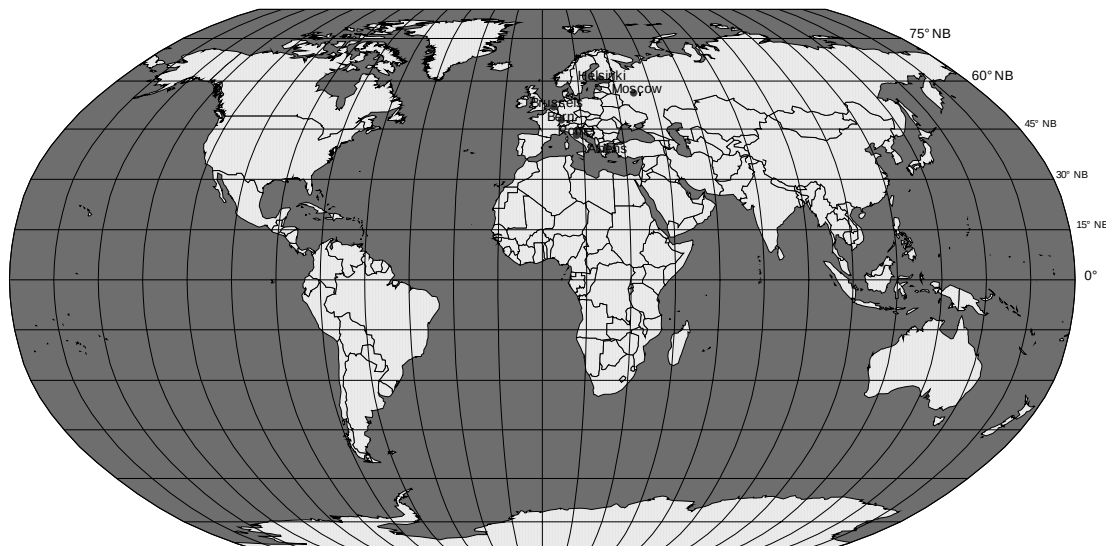
Een instrument om deze keuze en dimensionering mogelijk te maken is het berekenen van de respectievelijke schaduwhoeken voor elke gevel.

De schaduwhoeken worden berekend aan de hand van de zonne-azimut (is de positie van de zon t.o.v. de Noord/Zuid-as uitgezet op een horizontaal vlak), de zonne-hoek en de hoogte van het aan de zon blootgestelde glasoppervlak.

Om deze schaduwhoeken en de correcte dimensionering van de zonwering voor ieder apart georiënteerde gevel op een eenvoudige manier te berekenen heeft Reynaers Aluminium NV een softwarepakket ontworpen. Dit programma maakt het mogelijk, mits het inbrengen van de nodige parameters ogenblikkelijk een getrouwe weergave van de werkelijkheid in 2D-animatie te verkrijgen.



III.4 WERELDKAART MET OVERZICHT VAN DE BREEDTEGRADEN



III.5 DIAGRAM MET VERMELDING VAN DE SCHADUWHOEKEN VOOR VERSCHILLENDE EUROPESE HOOFDSTEDEN IN RELATIE TOT GEVELORIËNTATIE EN SEIZOENEN

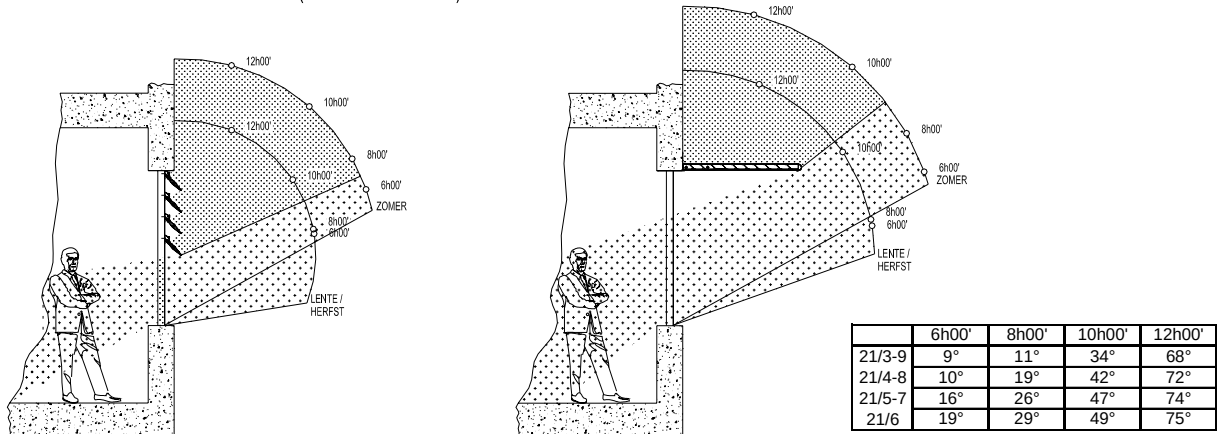
			SCHADUWHOEKEN ZOMER											
			OOST-FAÇADE				ZUID-FAÇADE				WEST-FAÇADE			
			NB	OL	6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'
HELSINKI	60.2°	24.9°	18.3°	32.6°	53.4°	83.7°	57.8°	53.4°	55.3°	66.6°	63.4°	50.1°	30.4°	
MOSKOU	55.0°	35.0°	14.3°	30.2°	50.7°	78.9°	64.6°	58.8°	59.7°	68.8°	69.5°	55.5°	33.6°	17.2°
BRUSSEL	50.8°	4.3°	12.3°	29.7°	51.0°	78.6°	69.1°	63.0°	63.8°	72.6°	70.9°	57.0°	34.4°	16.4°
BERN	46.9°	7.5°	12.7°	31.8°	54.3°	82.1°	71.9°	66.7°	68.2°	78.3°	68.4°	55.0°	32.3°	13.2°
ROME	41.9°	12.5°	14.2°	35.2°	59.3°	87.2°	75.4°	71.6°	74.1°	86.7°	64.4°	51.5°	28.6°	7.8°
ATHENE	38.0°	23.8°	10.1°	32.3°	56.5°	83.8°	80.4°	75.6°	77.3°	88.0°	68.1°	54.9°	30.9°	

			SCHADUWHOEKEN LENTE / HERFST											
			OOST-FAÇADE				ZUID-FAÇADE				WEST-FAÇADE			
			6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'
	NB	OL												
HELSINKI	60.2°	24.9°												
MOSKOU	55.0°	35.0°												
BRUSSEL	50.8°	4.3°												
BERN	46.9°	7.5°												
ROME	41.9°	12.5°												
ATHENE	38.0°	23.8°												

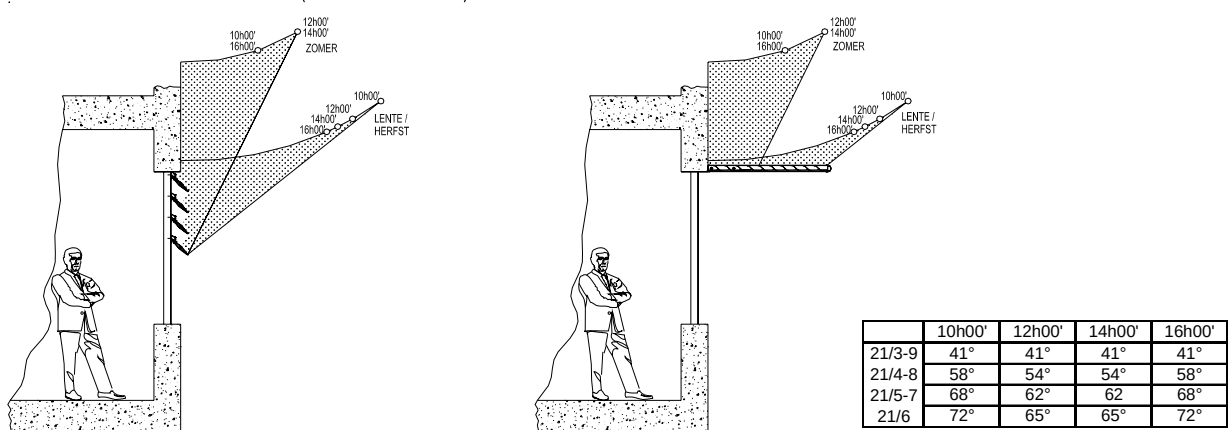
III.6

 VOORBEELD VAN DIRECTE ZONNE-INSTRALING OP VERSCHILLENDE GEVELORIËNTATIES
 VOOR 50°NB IN RELATIE TOT EEN HORIZONTAAL EN VERTICAAL ZONWERINGSSYSTEEM

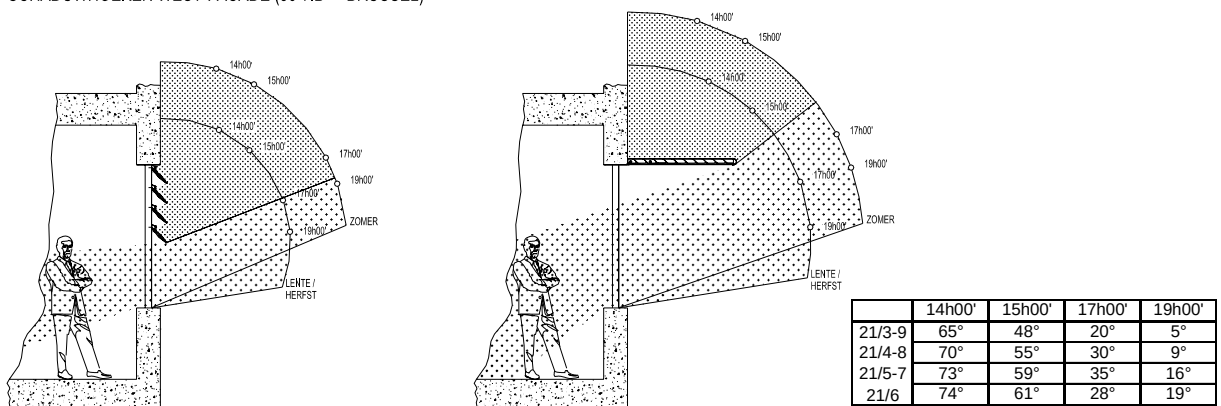
SCHADUWHOEKEN OOST-FACADE (50°NB = BRUSSEL)



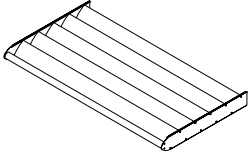
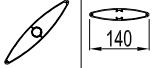
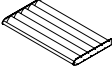
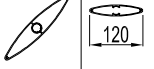
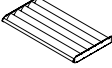
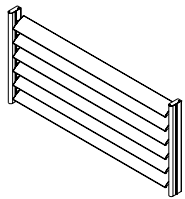
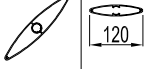
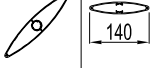
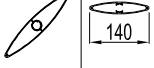
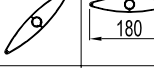
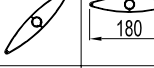
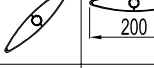
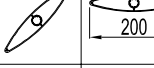
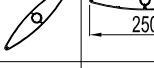
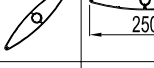
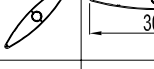
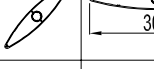
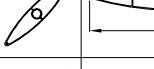
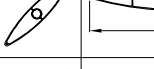
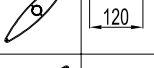
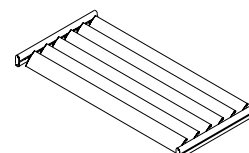
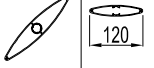
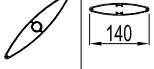
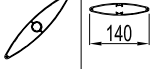
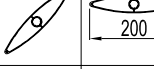
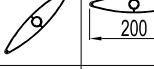
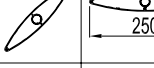
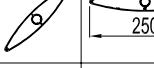
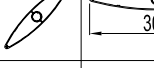
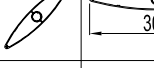
SCHADUWHOEKEN ZUID-FACADE (50°NB = BRUSSEL)

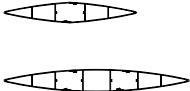
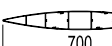
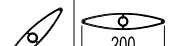
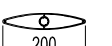
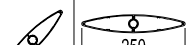
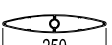
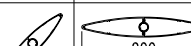
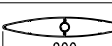
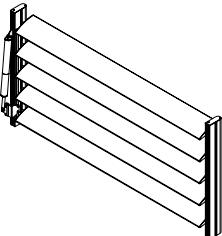
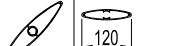
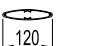
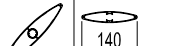
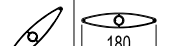
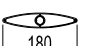
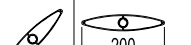
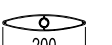
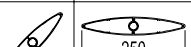
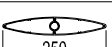
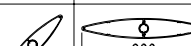
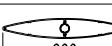
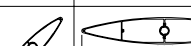
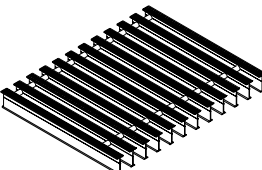
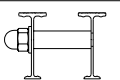
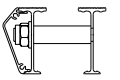
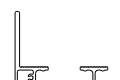


SCHADUWHOEKEN WEST-FACADE (50°NB = BRUSSEL)



III.7 OVERZICHT PROGRAMMA

				45°		1000 mm 1500 mm
				45°		1000 mm 1500 mm
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		

				Op projectbasis. Gelieve constructeur te contacteren.
				Op projectbasis. Gelieve constructeur te contacteren.
				0° / 15° / 30° / 45°
				0° / 15° / 30° / 45°
				0° / 15° / 30° / 45°
BEWEEGBARE LAMEL				
				VARIABEL
				VARIABEL
				VARIABEL
				VARIABEL
				VARIABEL
				VARIABEL
				VARIABEL
LOOPROOSTER				
				
				VARIANT
				VARIANT

RECOMMANDATIONS DE MISE EN OEUVRE

I GENERAL

Voir catalogue "1. Informations générales" (099.C01E.00 édition 11/2004)

II RECOMMANDATIONS DE MISE EN OEUVRE BS 100

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 Reynalube (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;
- la table d'amenée 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 produit.

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.

II.1.2 Protection des profilés usinés

Etapes :

- a. Marquer les usinages
- b. Percage et tronçonnage correct
- c. Protection des surfaces traitées par :
 - ébavurage (si nécessaire);
 - soufflage des poussières et des copeaux de sciage sur la coupe et dans la chambre du profilé;
 - dégraissage (Degreaser art.n° 086.9182.--);
 - application de produit anti-corrosion (Anticorro art.n°086.9610.--); temps de séchage: environ 1 heure.

III INFORMATIONS GENERALES

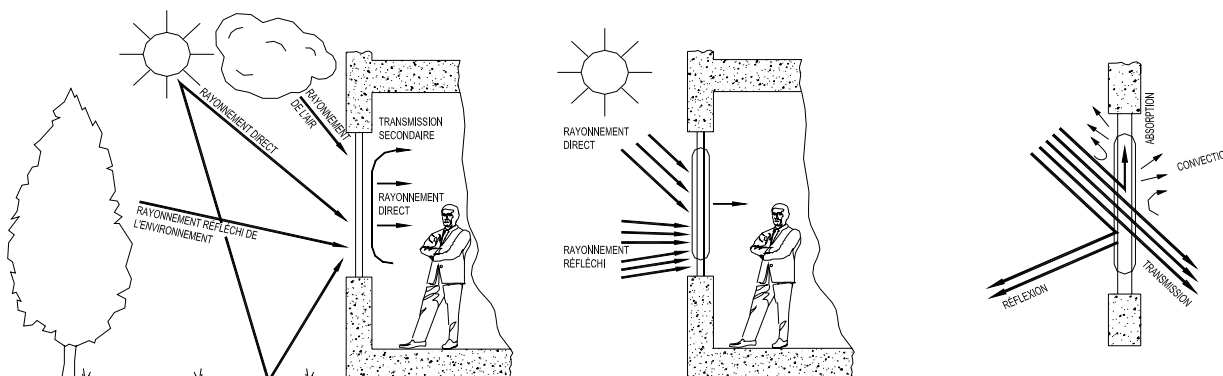
III.1 POURQUOI LA PROTECTION SOLAIRE ?

L'attention portée à l'utilisation de l'énergie dans les bâtiments est un phénomène relativement récent. Ces dix dernières années, on a constaté que la problématique de la construction économe en énergie était sensiblement plus complexe que la simple installation d'une bonne isolation tout en profitant des apports solaires gratuits.

Un des grands défis consiste à bien maîtriser la transmission solaire et lumineuse.

Quand le rayonnement solaire atteint une fenêtre, une partie du rayonnement est réfléchi, une autre partie est transmise tandis qu'une autre partie encore est absorbée par le vitrage. Cette dernière fraction est convertie en chaleur et est ensuite rayonnée par convection vers les deux côtés du vitrage. Le pourcentage total d'énergie qui pénètre à l'intérieur par une fenêtre est appelé facteur de transmission solaire absolue (FTS ou coefficient G) et constitue le critère de l'efficacité de la protection solaire de ce vitrage.

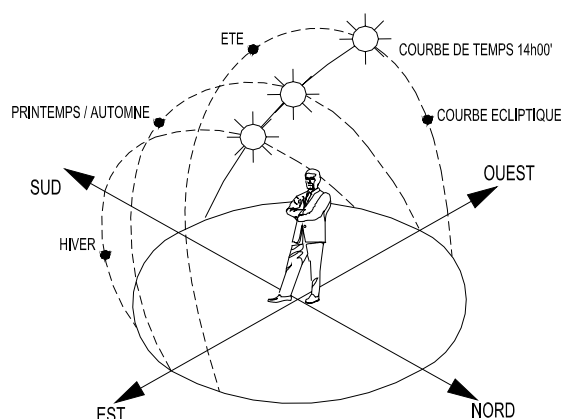
Quand le vitrage est protégé par une protection solaire, la partie du rayonnement solaire qui est transmise par le vitrage et la protection solaire sera fortement diminuée tandis que la partie qui est réfléchi par ces deux éléments sera augmentée.



III.2 HAUTEUR DU SOLEIL AUX DIFFERENTES SAISONS :

La hauteur du soleil varie d'heure en heure et de jour en jour et atteint sa plus haute position face à une façade sud le 21 juin à 12h00 heure solaire et sa plus basse position le 21 décembre également à 12h00 heure solaire. Pour visualiser ce processus dynamique des différentes hauteurs du soleil, on utilise le diagramme solaire sur lequel les courbes de trajectoire du soleil et les courbes de temps sont représentées graphiquement.

Exemple : (Bruxelles 50° LAT.N)



III.3 CALCUL DES ANGLES D'OMBRE EN FONCTION DE L'ORIENTATION DE LA FAÇADE :

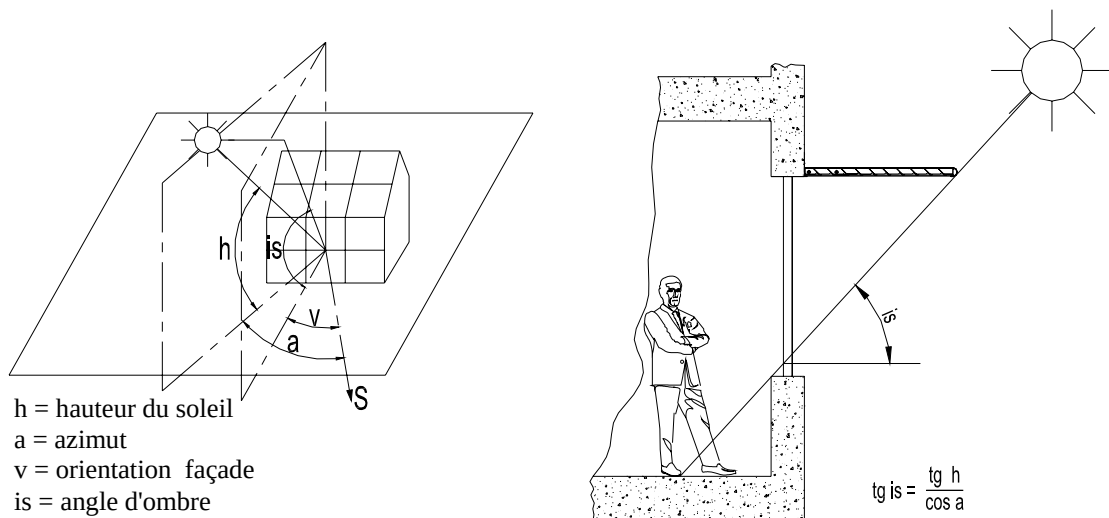
Pendant la phase de conception, il est important de préserver un bâtiment aussi efficacement que possible du rayonnement solaire direct. A cet effet, il faut trouver un bon équilibre entre d'une part la capacité de protection solaire et d'autre part la transmission maximale de la lumière naturelle, ce qui accroît sensiblement le confort visuel dans un espace de bureaux.

Il va de soi que l'orientation des différentes façades est déterminante dans le choix et le dimensionnement du type de protection solaire.

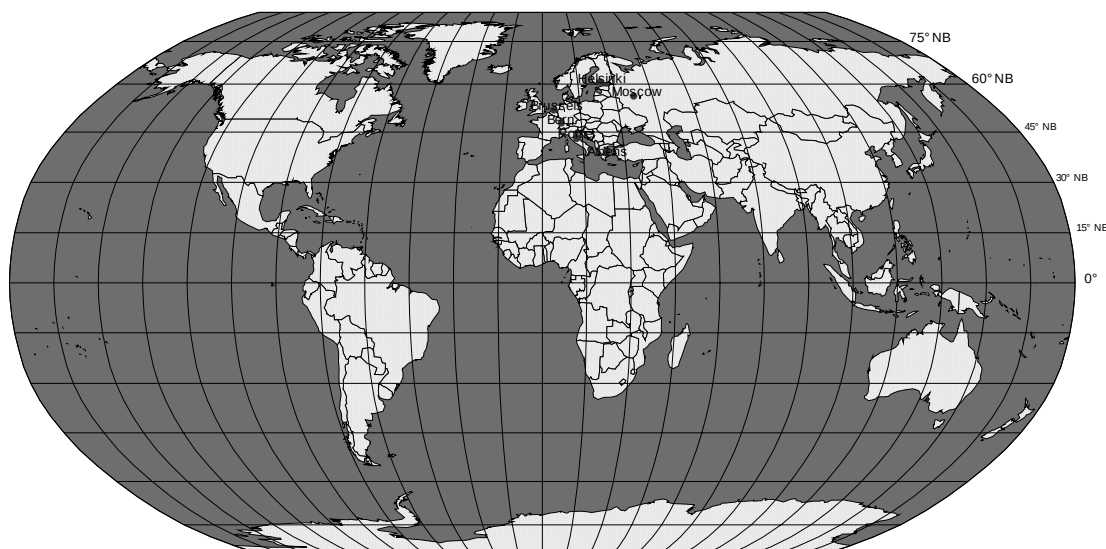
Un instrument permettant de réaliser ce choix et ce dimensionnement est le calcul des angles d'ombre respectifs de chaque façade.

Les angles d'ombre sont calculés sur base de l'azimut du soleil (c.-à-d. la position du soleil par rapport à l'axe nord/sud tracée sur un plan horizontal), de l'angle du soleil et de la hauteur de la surface vitrée exposée au soleil.

Reynaers Aluminium SA a mis au point un logiciel permettant de calculer de manière efficace ces angles d'ombre et le dimensionnement adéquat de la protection solaire pour chaque façade d'orientation distincte. Ce programme informatique permet, après saisie des paramètres appropriés, d'obtenir instantanément une représentation fidèle de la réalité dans une animation 2D.



III.4 PLANISPHERE AVEC INDICATION DES DEGRES DE LATITUDE



III.5 DIAGRAMME REPRENANT LES ANGLES D'OMBRE POUR DIFFERENTES CAPITALES EUROPEENNES EN FONCTION DE L'ORIENTATION DES FAÇADES ET DES SAISONS

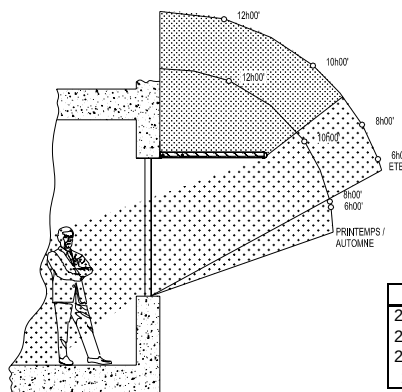
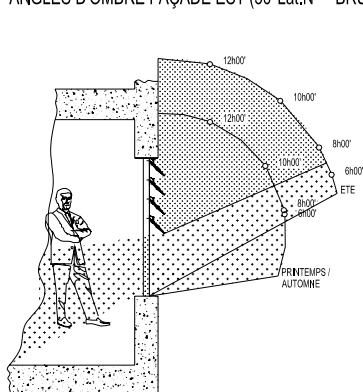
			ANGLES D'OMBRE EN ETE														
			FAÇADE EST				FAÇADE SUD				FAÇADE OUEST						
			6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'			
	Lat. N	Longt. E	HELSINKI	60.2°	24.9°	18.3°	32.6°	53.4°	83.7°	57.8°	53.4°	55.3°	66.6°	63.4°	50.1°	30.4°	
	MOSCOU	55.0°	35.0°	14.3°	30.2°	50.7°	78.9°	64.6°	58.8°	59.7°	68.8°	69.5°	55.5°	33.6°	17.2°		
	BRUXELLES	50.8°	4.3°	12.3°	29.7°	51.0°	78.6°	69.1°	63.0°	63.8°	72.6°	70.9°	57.0°	34.4°	16.4°		
	BERNE	46.9°	7.5°	12.7°	31.8°	54.3°	82.1°	71.9°	66.7°	68.2°	78.3°	68.4°	55.0°	32.3°	13.2°		
	ROME	41.9°	12.5°	14.2°	35.2°	59.3°	87.2°	75.4°	71.6°	74.1°	86.7°	64.4°	51.5°	28.6°	7.8°		
	ATHENES	38.0°	23.8°	10.1°	32.3°	56.5°	83.8°	80.4°	75.6°	77.3°	88.0°	68.1°	54.9°	30.9°			

			ANGLES D'OMBRE PRINTEMPS/AUTOMNE												
			FAÇADE EST				FAÇADE SUD				FAÇADE OUEST				
			6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'	
	Lat. N	Longt. E													
HELSINKI	60.2°	24.9°			11.7°	33.2°	76.2°	29.5°	29.5°	29.5°	29.4°	49.1°	32.1°	11.1°	
MOSCOU	55.0°	35.0°			10.5°	32.5°	69.9°	34.7°	34.7°	34.7°	34.6°	60.0°	41.0°	15.9°	
BRUXELLES	50.8°	4.3°			11.1°	34.4°	70.6°	38.9°	38.9°	38.9°	38.8°	63.4°	44.6°	18.0°	
BERNE	46.9°	7.5°			14.3°	38.7°	76.5°	42.8°	42.8°	42.8°	42.7°	60.9°	43.4°	17.0°	
ROME	41.9°	12.5°			19.5°	47.3°	84.2°	47.8°	47.8°	47.8°	47.6°	57.0°	40.7°	14.4°	
ATHENES	38.0°	23.8°			17.5°	45.1°	79.9°	51.7°	51.7°	51.7°	51.6°	62.8°	46.2°	18.3°	

III.6

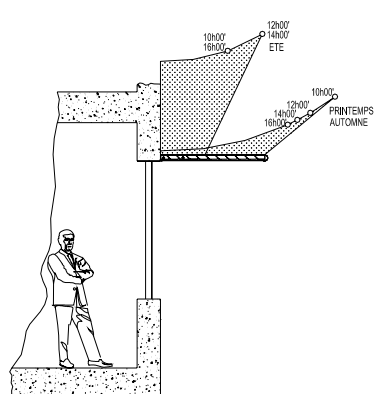
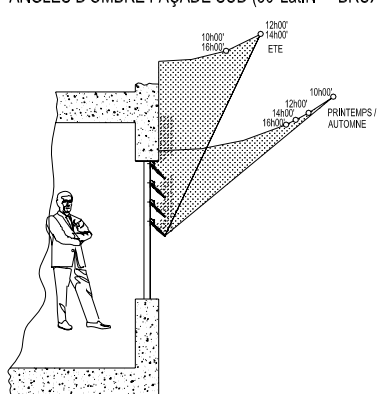
 EXEMPLE DE RAYONNEMENT SOLAIRE DIRECT SUR DIFFERENTES ORIENTATIONS DE
 FAÇADE POUR 50° LATITUDE NORD PAR RAPPORT A UN SYSTEME DE PROTECTION
 SOLAIRE HORIZONTALE ET VERTICALE

ANGLES D'OMBRE FAÇADE EST (50°Lat.N = BRUXELLES)



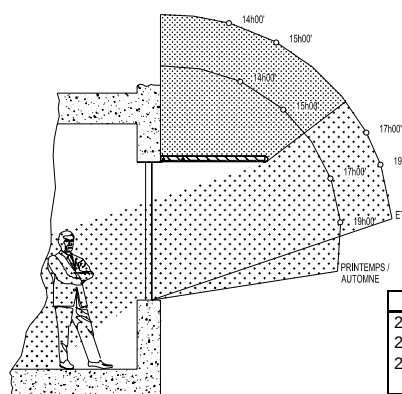
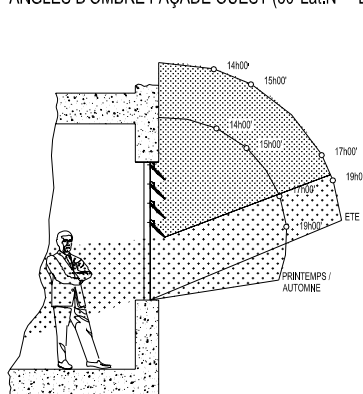
	6h00'	8h00'	10h00'	12h00'
21/3-9	9°	11°	34°	68°
21/4-8	10°	19°	42°	72°
21/5-7	16°	26°	47°	74°
21/6	19°	29°	49°	75°

ANGLES D'OMBRE FAÇADE SUD (50°Lat.N = BRUXELLES)



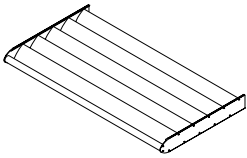
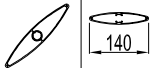
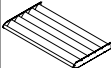
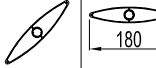
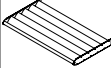
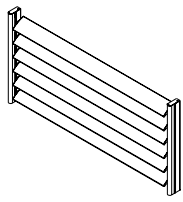
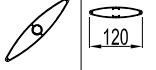
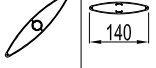
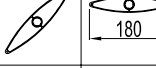
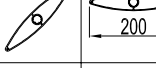
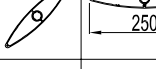
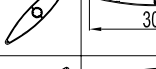
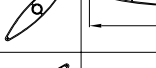
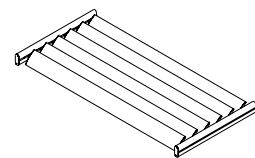
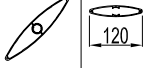
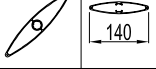
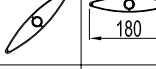
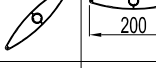
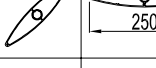
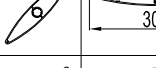
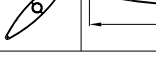
	10h00'	12h00'	14h00'	16h00'
21/3-9	41°	41°	41°	41°
21/4-8	58°	54°	54°	58°
21/5-7	68°	62°	62°	68°
21/6	72°	65°	65°	72°

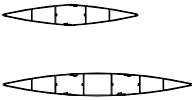
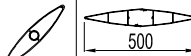
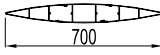
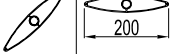
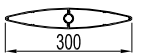
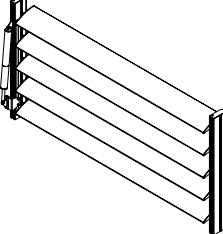
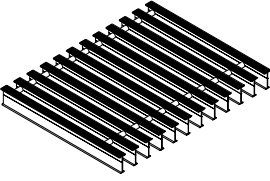
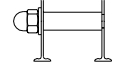
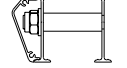
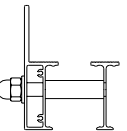
ANGLES D'OMBRE FAÇADE OUEST (50°Lat.N = BRUXELLES)



	14h00'	15h00'	17h00'	19h00'
21/3-9	65°	48°	20°	5°
21/4-8	70°	55°	30°	9°
21/5-7	73°	59°	35°	16°
21/6	74°	61°	28°	19°

III.7 APERÇU GENERAL DU PROGRAMME

APERÇU						
FIXE LAME						
			45°		1000 mm	1500 mm
			45°		1000 mm	1500 mm
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			0° / 15° / 30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			
			30° / 45° / 60° / 75° / 90°			

			A base du projet. Veuillez consulter le constructeur.
			A base du projet. Veuillez consulter le constructeur.
			0° / 15° / 30° / 45°
			0° / 15° / 30° / 45°
			0° / 15° / 30° / 45°
LAME MOBILE			
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
CAILLEBOTIS			
			
			VARIANTE
			VARIANTE

PROCESSING DATA

I GENERAL

See catalogue "1.General information"(099.C01E.00 edition 11/2004)

II PROCESSING DATA BS 100

II.1 FABRICATING INSTRUCTIONS

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: Reynalube 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;
- 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 product.

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.

II.1.2 Protection of treated profiles

Steps:

A. Marking of operations

a. Correct drilling and sawing.

b. Protection of the saw cuts by:

- de-burring (if necessary);
- removing dust and sawdust on the saw cut and in the profile chamber;
- degreasing (Degreaser art.no. 086.9182.--);
- applying anti-corrosion product (Anticorro art.no. 086.9610.--); drying time: about 1 hour.

III GENERAL INFORMATION

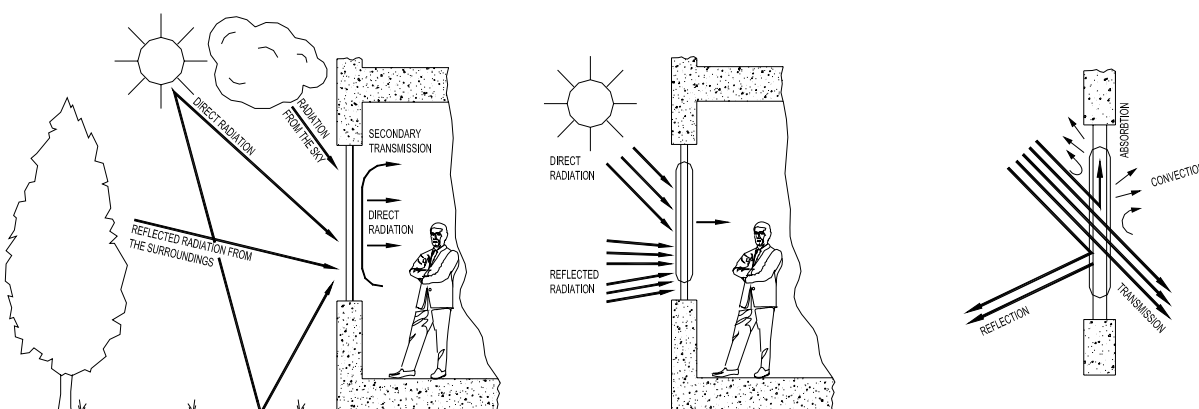
III.1 WHY SUN-SCREENING?

The concern for energy usage in buildings is a relatively recent phenomenon. In the last decade it has been realised that the problems surrounding energy-efficient construction are significantly more complex than just insulating well and allowing unrestricted access to the sun's rays.

One of the great challenges is to achieve good control over the entry of sun and light.

When the sun's rays fall on a window, some of them are reflected, some are allowed through, while others are absorbed by the glass. This last fraction of solar radiation converts to heat and then radiates out to both sides of the glass. The total percentage of energy that enters through a window is called the Absolute Sun Entry Factor, or G-value, and is a measure for the efficiency of the sun-screening capacity of that glass.

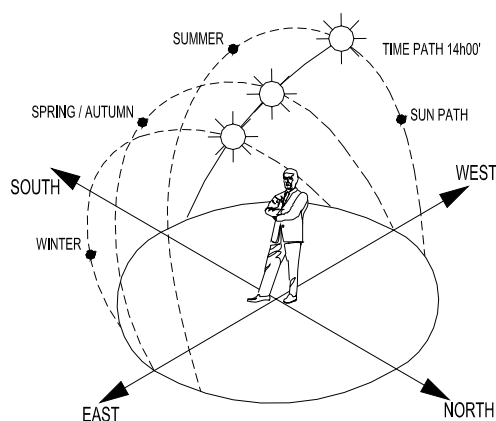
When the glass is protected by a sun-screening system, that proportion of the sun's rays allowed through by the glass and the sun-screening system will reduce greatly, and that proportion reflected by the two will rise.



III.2 SUN'S POSITION FOR THE DIFFERENT SEASONS:

The position of the sun changes from hour to hour and from day to day. For a south-facing outer wall it reaches its highest position on 21 June at 12:00 solar time and its lowest position on 21 December also at 12:00 solar time. In order to visualise this dynamic process of the different sun positions a sun diagram is used graphically illustrating the ecliptic curves and time curves.

Example : (Brussels 50° LAT.N)



III.3 CALCULATING SHADOW ANGLES RELATIVE TO OUTER WALL ORIENTATION:

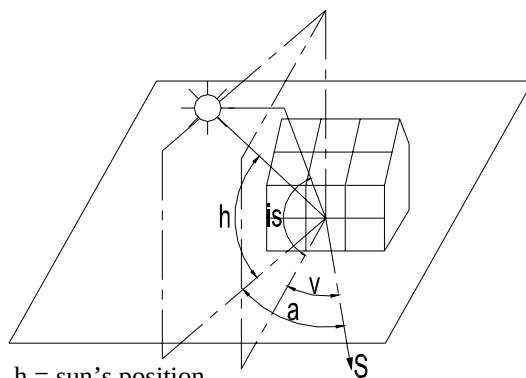
During the design stage it is important to relieve a building from direct sun entry as efficiently as possible. A good balance is necessary here between on the one hand sun-screening capacity and on the other, maximum entry of natural daylight, something that considerably improves visual comfort in office accommodation.

It is clear that the orientation of the different outer walls is decisive in the choice and dimensioning of the type of sun-screening.

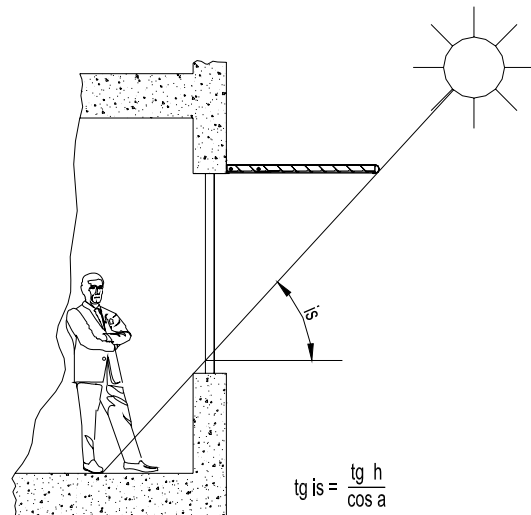
One instrument for enabling choice and dimensioning is calculating the respective shadow angles for each outer wall.

The shadow angles are calculated by referring to the solar azimuth (that is the position of the sun relative to the north-south axis, expressed in a horizontal plane, the sun's angle, and the height of the glass surface exposed to the sun.

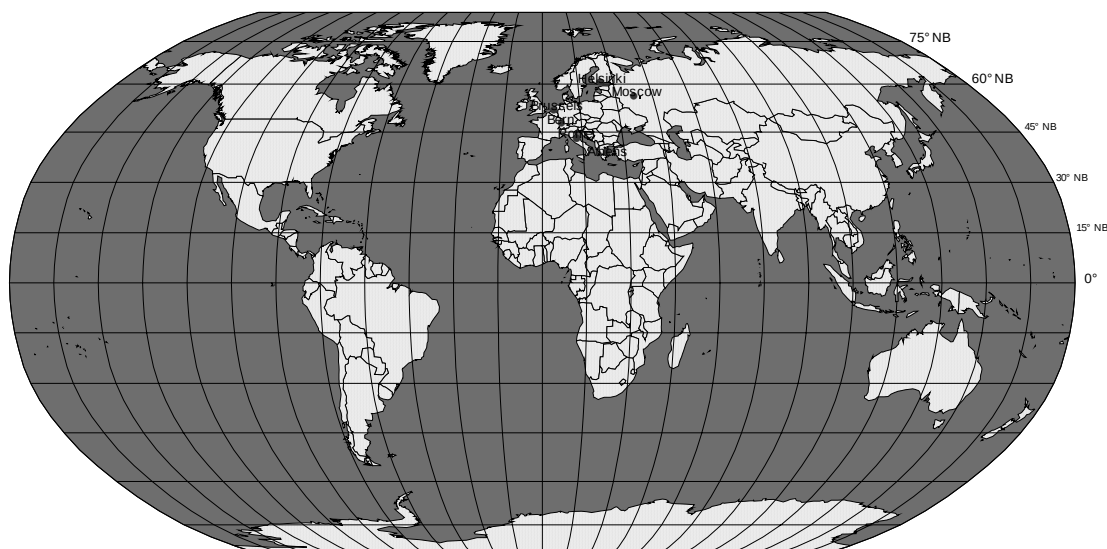
Reynaers Aluminium NV has developed a software package enabling simple calculation of these shadow angles and the correct dimensioning of the sun-screening system for each individually oriented outer wall. Once the necessary parameters have been entered, this program makes it possible to provide an instant illustration of reality in 2D-animation.



h = sun's position
 a = Azimuth
 v = outer wall orientation
 is = shadow angle



III.4 WORLD MAP WITH OVERVIEW OF DEGREES OF LATITUDE



III.5 DIAGRAM INDICATING THE SHADOW ANGLES FOR DIFFERENT EUROPEAN CAPITALS IN RELATION TO OUTER WALL ORIENTATION AND SEASONS

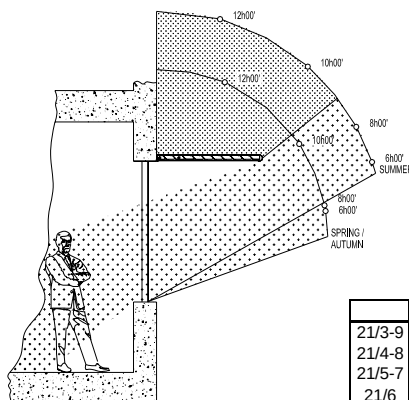
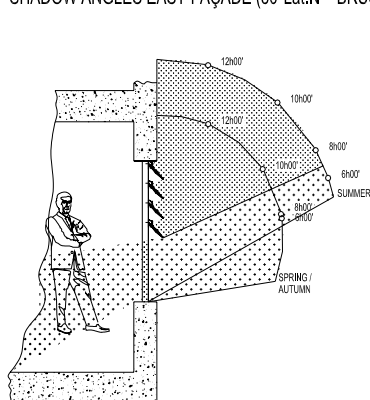
		SHADOW ANGLES SUMMER												
		EAST FACADE				SOUTH FACADE				WEST FACADE				
	Lat. N	Longt. E	6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'
HELSINKI	60.2°	24.9°	18.3°	32.6°	53.4°	83.7°	57.8°	53.4°	55.3°	66.6°	63.4°	50.1°	30.4°	
MOSCOW	55.0°	35.0°	14.3°	30.2°	50.7°	78.9°	64.6°	58.8°	59.7°	68.8°	69.5°	55.5°	33.6°	17.2°
BRUSSELS	50.8°	4.3°	12.3°	29.7°	51.0°	78.6°	69.1°	63.0°	63.8°	72.6°	70.9°	57.0°	34.4°	16.4°
BERN	46.9°	7.5°	12.7°	31.8°	54.3°	82.1°	71.9°	66.7°	68.2°	78.3°	68.4°	55.0°	32.3°	13.2°
ROME	41.9°	12.5°	14.2°	35.2°	59.3°	87.2°	75.4°	71.6°	74.1°	86.7°	64.4°	51.5°	28.6°	7.8°
ATHENS	38.0°	23.8°	10.1°	32.3°	56.5°	83.8°	80.4°	75.6°	77.3°	88.0°	68.1°	54.9°	30.9°	

		SHADOW ANGLES SPRING / AUTUMN												
		EAST FACADE				SOUTH FACADE				WEST FACADE				
	Lat. N	Longt. E	6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'
HELSINKI	60.2°	24.9°		11.7°	33.2°	76.2°	29.5°	29.5°	29.5°	29.4°	49.1°	32.1°	11.1°	
MOSCOW	55.0°	35.0°		10.5°	32.5°	69.9°	34.7°	34.7°	34.7°	34.6°	60.0°	41.0°	15.9°	
BRUSSELS	50.8°	4.3°		11.1°	34.4°	70.6°	38.9°	38.9°	38.9°	38.8°	63.4°	44.6°	18.0°	
BERN	46.9°	7.5°		14.3°	38.7°	76.5°	42.8°	42.8°	42.8°	42.7°	60.9°	43.4°	17.0°	
ROME	41.9°	12.5°		19.5°	47.3°	84.2°	47.8°	47.8°	47.8°	47.6°	57.0°	40.7°	14.4°	
ATHENS	38.0°	23.8°		17.5°	45.1°	79.9°	51.7°	51.7°	51.7°	51.6°	62.8°	46.2°	18.3°	

III.6

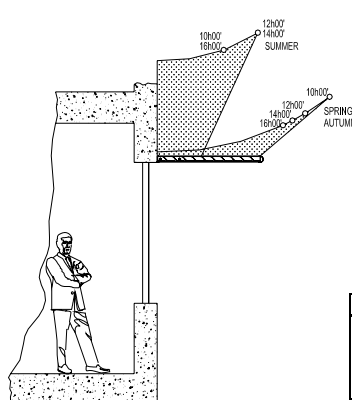
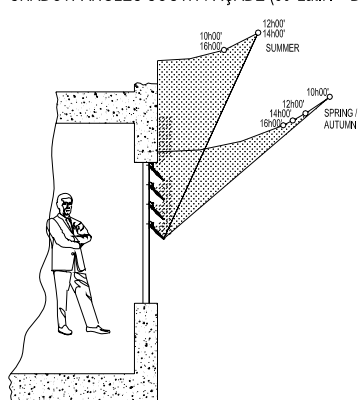
 EXAMPLE OF DIRECT SUN ENTRY ON DIFFERENT OUTER WALL ORIENTATIONS FOR
 50°LAT.N IN RELATION TO A HORIZONTAL AND VERTICAL SUN-SCREENING SYSTEM

SHADOW ANGLES EAST-FAÇADE (50°Lat.N = BRUSSELS)



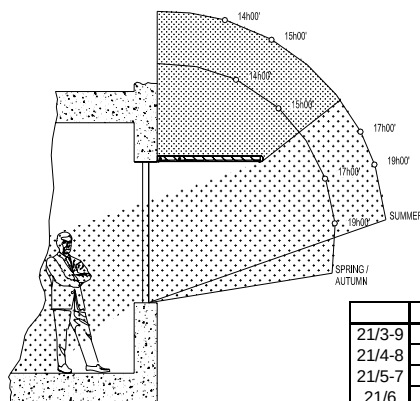
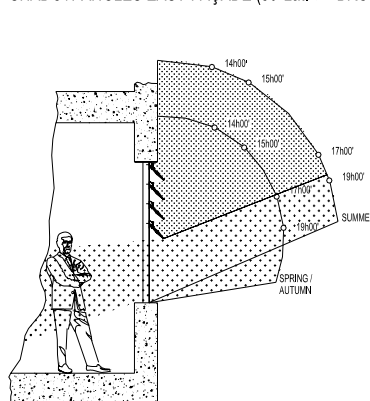
	6h00'	8h00'	10h00'	12h00'
21/3-9	9°	11°	34°	68°
21/4-8	10°	19°	42°	72°
21/5-7	16°	26°	47°	74°
21/6	19°	29°	49°	75°

SHADOW ANGLES SOUTH-FAÇADE (50°Lat.N = BRUSSELS)



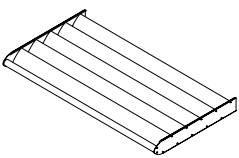
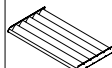
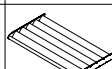
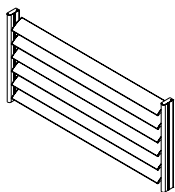
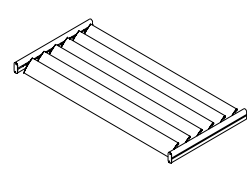
	10h00'	12h00'	14h00'	16h00'
21/3-9	41°	41°	41°	41°
21/4-8	58°	54°	54°	58°
21/5-7	68°	62°	62°	68°
21/6	72°	65°	65°	72°

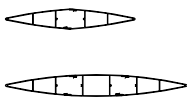
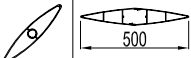
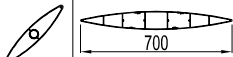
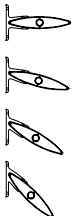
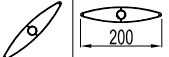
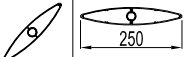
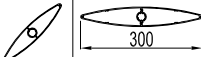
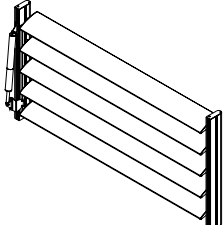
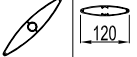
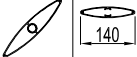
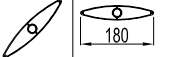
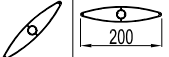
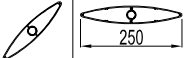
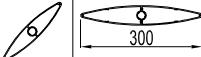
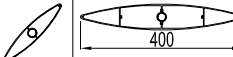
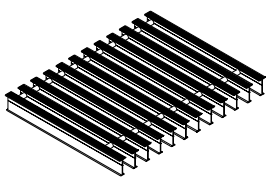
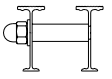
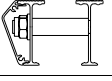
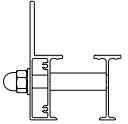
SHADOW ANGLES EAST-FAÇADE (50°Lat.N = BRUSSELS)



	14h00'	15h00'	17h00'	19h00'
21/3-9	65°	48°	20°	5°
21/4-8	70°	55°	30°	9°
21/5-7	73°	59°	35°	16°
21/6	74°	61°	28°	19°

III.7 PROGRAM OVERVIEW

OVERVIEW						
FIXED LOUVRE						
				45°		1000 mm 1500 mm
				45°		1000 mm 1500 mm
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				0° / 15° / 30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		
				30° / 45° / 60° / 75° / 90°		

			On project base. Please consult our constructors.
			On project base. Please consult our constructors.
			0° / 15° / 30° / 45°
			0° / 15° / 30° / 45°
			0° / 15° / 30° / 45°
MOVEABLE LOUVRE			
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
			VARIABLE
WALKWAY			
			
			VARIANT
			VARIANT

VERARBEITUNGSVORSCHRIFTEN

I ALLGEMEIN

Siehe Katalog "1.Algemeine information"(099.C01E.00 Ausgabe 11/2004)

II VERARBEITUNGSVORSCHRIFTEN BS 100

II.1 VERARBEITUNG

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

II.1.1 Spanende Bearbeitungen

Mit ‚spanende 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 Profilaufgaben müssen sauber und spanfrei sein.
- Zur Verlängerung der Werkzeugstandzeiten können geeignete Gleitmittel, wie der Fettstift Reynalube (Art.-Nr. 086.9191.--), das Reynaers-Schneidmittel (Art.-Nr. 086.9175.--) oder die von den Maschinenlieferanten vorgeschriebenen Kühl- und Schneidmittel eingesetzt werden. Diese Kühl- und Schneidmittel müssen chemisch neutrale Produkte sein, die die Oberfläche nicht angreifen.

Zuschnitt:

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 Spannzyylinder, 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.

II.1.2 Schätzung der bearbeiteten Profilen

Verfahrensweise:

- a) Abzeichnung der Bearbeitungen
- b) Korrekt Bohren und Zuschneiden
- b) Schutz der bearbeiteten Flächen:
 - Entgraten (falls erforderlich).
 - Schnittfläche und Profilkammern von Staub und Sägeresten säubern.
 - Entfetten der Profile (Degreaser Art.-Nr. 086.9182.--).
 - Korrosionsschutzprodukt (Antikorro Art.-Nr. 086.9610.--) aufbringen;Trockenzeit: ca. 1 Stunde.

III ALLGEMEINE INFORMATIONEN

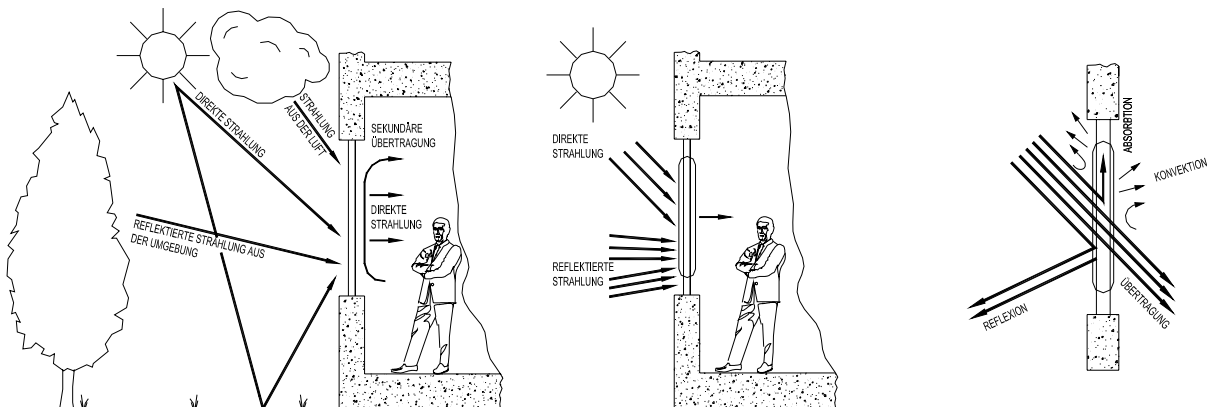
III.1 WARUM EIN SONNENSCHUTZ?

Das Interesse für den Energieverbrauch in Gebäuden ist ein relativ neues Phänomen. In den letzten zehn Jahren stellte man fest, dass energiesparendes Bauen sehr viel mehr beinhaltet als eine gute Wärmeisolierung und die Nutzung kostenloser Sonnenwärme.

Eine der großen Herausforderungen besteht in der Beherrschung der Sonneneinstrahlung und des Lichteinfalls.

Scheint die Sonne auf ein Fenster, wird ein Teil der Strahlen reflektiert, ein anderer Teil wird durchgelassen und ein dritter Teil wird vom Glas absorbiert. Der letztgenannte Anteil wird in Wärme umgesetzt und strahlt danach zu beiden Seiten der Glasscheibe ab. Der Gesamtanteil der Energie, die durch ein Fenster nach innen gelangt, wird Gesamtenergiedurchlassgrad oder g-Wert genannt. Er ist maßgeblich dafür, wie wirksam eine Scheibe vor Sonneneinstrahlung schützt.

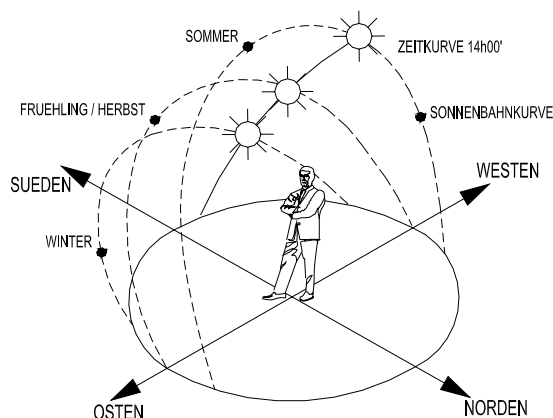
Wird das Glas mit einem Sonnenschutzsystem ausgestattet, so verringert sich der Anteil der Sonnenstrahlen, die das Glas und den Sonnenschutz passieren, und von beiden werden mehr Strahlen reflektiert.



III.2 DER STAND DER SONNE IM LAUF DES JAHRES

Der Stand der Sonne ändert sich von Stunde zu Stunde und von Tag zu Tag. Ihren höchsten Stand erreicht sie an einer Südfassade am 21. Juni um 12.00 Uhr Sonnenzeit, ihren niedrigsten Stand am 21. Dezember ebenfalls um 12.00 Uhr Sonnenzeit. Zur Darstellung dieses dynamischen Prozesses der unterschiedlichen Sonnenstände dient ein Sonnendiagramm, in dem die Sonnenbahnkurven und die Zeitkurven grafisch abgebildet werden.

Beispiel : (Brüssel 50° NB)



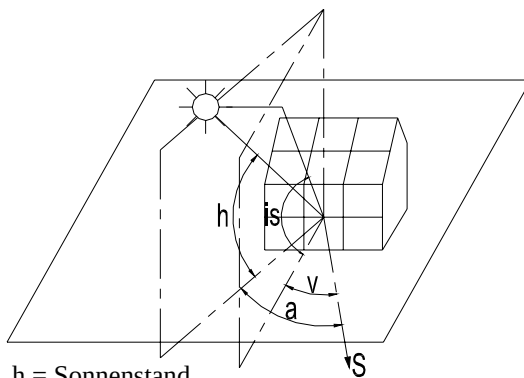
III.3 BERECHNUNG DER SCHATTENWINKEL JE NACH FASSADENAUSRICHTUNG

In der Planungsphase ist es wichtig, ein Gebäude so effizient wie möglich vor direkter Sonneneinstrahlung zu schützen. Dabei ist ein ausgewogenes Gleichgewicht zwischen der Sonnenschutzleistung einerseits und dem maximalen Einfall natürlichen Tageslichts andererseits anzustreben, da dieses den optischen Komfort in einem Bürogebäude beträchtlich erhöht. Natürlich spielt die Ausrichtung der verschiedenen Fassaden eine entscheidende Rolle bei der Wahl und Dimensionierung des Sonnenschutzsystems.

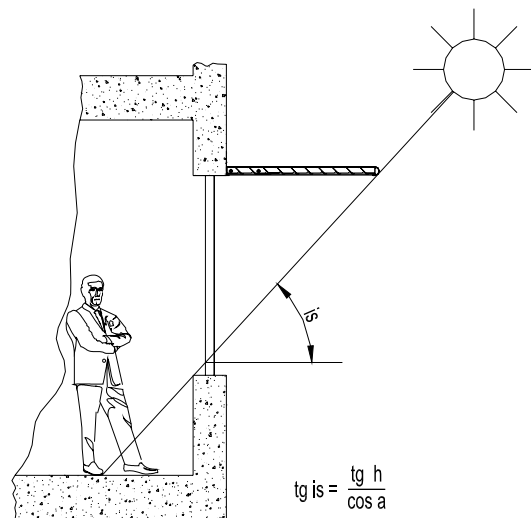
Ein Instrument, das diese Wahl und Dimensionierung ermöglicht, ist die Berechnung der jeweiligen Schattenwinkel für jede Fassade.

Die Schattenwinkel werden mit Hilfe des Sonnenazimuts (d. h. der Position der Sonne im Verhältnis zur Nord-Süd-Achse, projiziert auf eine horizontale Fläche), des Sonnenwinkels und der Höhe der der Sonne ausgesetzten Glasfläche berechnet.

Zur einfachen Berechnung dieser Schattenwinkel und der richtigen Bemessung des Sonnenschutzes für jede Fassadenausrichtung entwickelte Reynaers Aluminium ein Softwarepaket. Dieses Programm ermöglicht bei Eingabe der erforderlichen Parameter die Generierung einer wirklichkeitsgetreuen Darstellung der Realität in einer 2D-Animation.



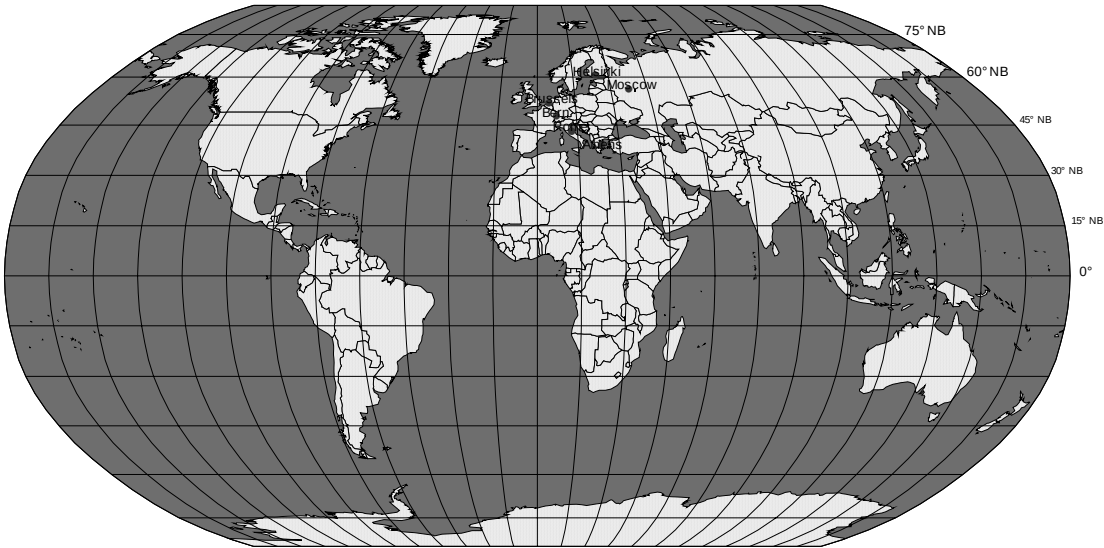
h = Sonnenstand
 a = Azimut
 v = Fassadenausrichtung
 is = Schattenwinkel



$$\operatorname{tg} is = \frac{\operatorname{tg} h}{\cos a}$$

III.4

WELTKARTE MIT ANGABE DER BREITENGRADE



III.5

DIAGRAMM DER SCHATTENWINKEL FUER VERSCHIEDENE EUROPAEISCHE HAUPTSTAEDTE
 BEI UNTERSCHIEDLICHER FASSADENAUSRICHTUNG UND JAHRESZEIT

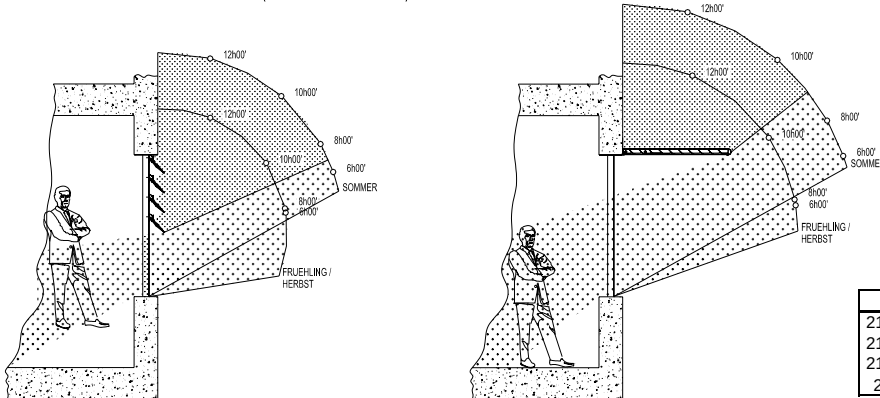
			SCHATTENWINKEL SOMMER														
			OSTFASSADE				SÜDFASSADE				WESTFASSADE						
			6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'			
	NB	OL	HELSINKI	60.2°	24.9°	18.3°	32.6°	53.4°	83.7°	57.8°	53.4°	55.3°	66.6°	63.4°	50.1°	30.4°	
	MOSKAU	55.0°	35.0°	14.3°	30.2°	50.7°	78.9°	64.6°	58.8°	59.7°	68.8°	69.5°	55.5°	33.6°	17.2°		
	BRÜSSEL	50.8°	4.3°	12.3°	29.7°	51.0°	78.6°	69.1°	63.0°	63.8°	72.6°	70.9°	57.0°	34.4°	16.4°		
	BERN	46.9°	7.5°	12.7°	31.8°	54.3°	82.1°	71.9°	66.7°	68.2°	78.3°	68.4°	55.0°	32.3°	13.2°		
	ROM	41.9°	12.5°	14.2°	35.2°	59.3°	87.2°	75.4°	71.6°	74.1°	86.7°	64.4°	51.5°	28.6°	7.8°		
	ATHEN	38.0°	23.8°	10.1°	32.3°	56.5°	83.8°	80.4°	75.6°	77.3°	88.0°	68.1°	54.9°	30.9°			

			SCHATTENWINKEL FRÜHJAHR/HERBST											
			OSTFASSADE				SÜDFASSADE				WESTFASSADE			
			6h00'	8h00'	10h00'	12h00'	10h00'	12h00'	14h00'	16h00'	14h00'	15h00'	17h00'	19h00'
	NB	OL												
HELSINKI	60.2°	24.9°		11.7°	33.2°	76.2°	29.5°	29.5°	29.5°	29.4°	49.1°	32.1°	11.1°	
MOSKAU	55.0°	35.0°		10.5°	32.5°	69.9°	34.7°	34.7°	34.7°	34.6°	60.0°	41.0°	15.9°	
BRÜSSEL	50.8°	4.3°		11.1°	34.4°	70.6°	38.9°	38.9°	38.9°	38.8°	63.4°	44.6°	18.0°	
BERN	46.9°	7.5°		14.3°	38.7°	76.5°	42.8°	42.8°	42.8°	42.7°	60.9°	43.4°	17.0°	
ROM	41.9°	12.5°		19.5°	47.3°	84.2°	47.8°	47.8°	47.8°	47.6°	57.0°	40.7°	14.4°	
ATHEN	38.0°	23.8°		17.5°	45.1°	79.9°	51.7°	51.7°	51.7°	51.6°	62.8°	46.2°	18.3°	

III.6

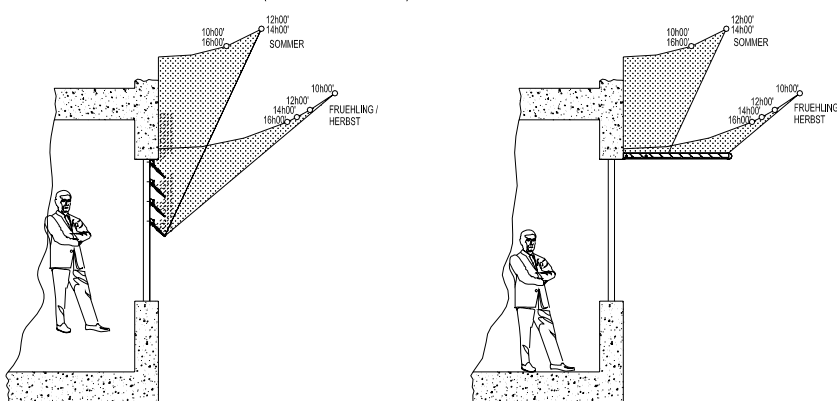
BEISPIEL DIREKTER SONNENEINSTRALUNG AUF VERSCHIEDEN AUSGERICHTETE FASSADEN BEI 50 ° NOERDLICHER BREITE MIT HORIZONTALEM UND VERTIKALEM SONNENSCHUTZSYSTEM

SCHATTENWINKEL OSTFASSADE (50 °NB = BRÜSSEL)



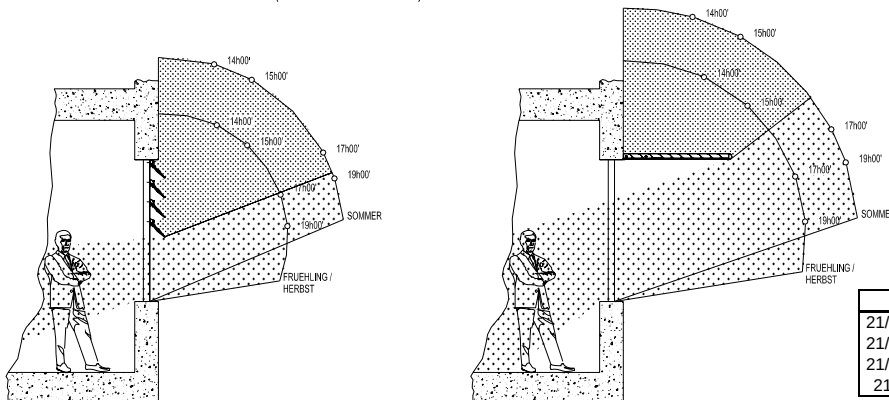
	6h00'	8h00'	10h00'	12h00'
21/3-9	9°	11°	34°	68°
21/4-8	10°	19°	42°	72°
21/5-7	16°	26°	47°	74°
21/6	19°	29°	49°	75°

SCHATTENWINKEL SÜDFASSADE (50 °NB = BRÜSSEL)



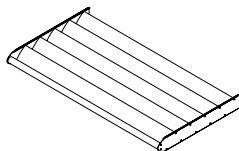
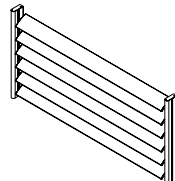
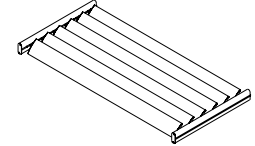
	10h00'	12h00'	14h00'	16h00'
21/3-9	41°	41°	41°	41°
21/4-8	58°	54°	54°	58°
21/5-7	68°	62°	62°	68°
21/6	72°	65°	65°	72°

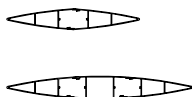
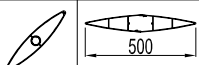
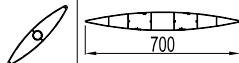
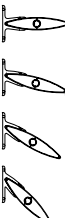
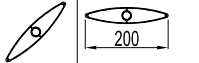
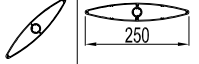
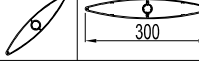
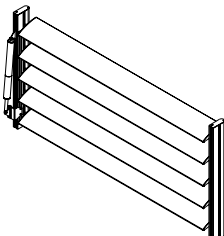
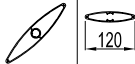
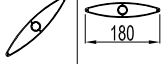
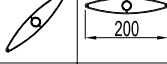
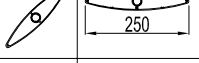
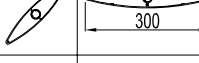
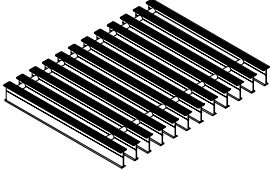
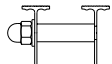
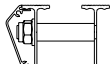
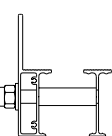
SCHATTENWINKEL WESTFASSADE (50 °NB = BRÜSSEL)



	14h00'	15h00'	17h00'	19h00'
21/3-9	65°	48°	20°	5°
21/4-8	70°	55°	30°	9°
21/5-7	73°	59°	35°	16°
21/6	74°	61°	28°	19°

III.7 UEBERSICHT UEBER DAS LIEFERPROGRAMM

UEBERSICHT					
FESTE LAMELLE					
			45°		1000 mm 1500 mm
			45°		1000 mm 1500 mm
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			0° / 15° / 30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		
			30° / 45° / 60° / 75° / 90°		

			Basiert auf Projekt. Bitte kontaktieren Sie den Konstrukteur.
			Basiert auf Projekt. Bitte kontaktieren Sie den Konstrukteur.
			0° / 15° / 30° / 45°
			0° / 15° / 30° / 45°
			0° / 15° / 30° / 45°
BEWEGBARE LAMELLEN			
			VERAENDERLICH
			VERAENDERLICH
			VERAENDERLICH
			VERAENDERLICH
			VERAENDERLICH
			VERAENDERLICH
			VERAENDERLICH
LAUFROSTE			
			
			VARIANTE
			VARIANTE

C

Profielen

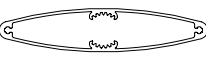
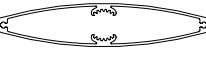
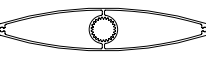
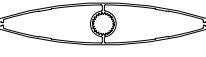
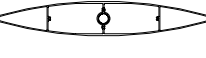
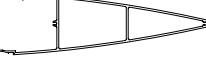
Profilés

Profiles

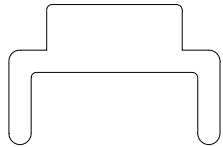
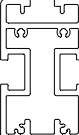
Profile

Art. N°			Art. N°		
038.0007.XX	56.C.007	D0061188			
038.0008.XX	56.C.007	D0061188			
038.0100.XX	56.C.008	D0061190			
038.0101.XX	56.C.008	D0061190			
038.0102.XX	56.C.010	D0061195			
038.0104.XX	56.C.016	D0067192			
038.0106.XX	56.C.009	D0061191			
038.0110.XX	56.C.010	D0061195			
038.0120.XX	56.C.008	D0061190			
038.0130.XX	56.C.011	D0061196			
038.0160.XX	56.C.012	D0061197			
038.0200.XX	56.C.015	D0061199			
038.0210.XX	56.C.013	D0061198			
038.0211.XX	56.C.014	D0061200			
038.0215.XX	56.C.013	D0061198			
038.0220.XX	56.C.015	D0061199			
038.0230.XX	56.C.015	D0061199			
038.1000.XX	56.C.005	D0061182			
038.1001.XX	56.C.005	D0061182			
038.1002.XX	56.C.005	D0061182			
038.1003.XX	56.C.005	D0061182			
038.1004.XX	56.C.006	D0061186			
038.1005.XX	56.C.006	D0061186			
038.1006.XX	56.C.006	D0061186			
0B0.0901.XX	56.C.011	D0061196			
0B0.1601.XX	56.C.011	D0061196			
0M0.3003.XX	56.C.011	D0061196			

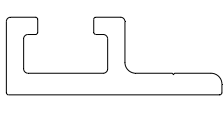
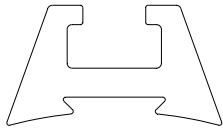
LAMEL
LAME
LOUVRE
LAMELLE

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.1000.XX		7.00	4.048	3.239	12.50	67.870	11.312	60.00	
038.1001.XX		7.00	6.007	4.291	14.00	104.313	14.902	70.00	
038.1002.XX		7.00	12.444	6.913	18.00	220.669	24.519	90.00	
038.1003.XX		7.00	17.128	8.783	19.50	314.751	31.475	100.00	
038.1004.XX		7.00	28.005	12.876	21.75	625.219	50.018	125.00	
038.1005.XX		7.00	44.002	18.145	24.25	1139.208	75.947	150.00	
038.1006.XX		7.00	120.307	37.596	32.00	2617.175	130.859	200.00	
038.0007.XX		7.00	94.567	23.437	38.21	841.363	60.467	139.14	
038.0008.XX		7.00	201.804	47.483	42.50	559.784	45.884	122.00	

DRAAGARM
 BRAS-SUPPORT
 SUPPORT ARM
 TRAGARM

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0100.XX		7.00	273.649	39.758	68.83	44.347	19.710	22.50	
038.0101.XX		7.00	190.887	32.354	59.00	35.336	15.705	22.50	
038.0120.XX		7.00	0.104	0.131	7.92	0.355	0.374	9.50	
038.0106.XX		7.00	66.772	17.422	38.33	26.193	11.641	22.50	

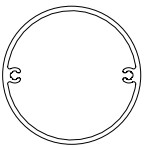
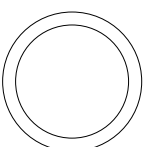
 HULPPROFIEL DRAAGARM
 PROFILE DE RACCORDEMENT BRAS-SUPPORT
 ADDITIONAL PROFILE SUPPORT ARM
 ZUSATZPROFIL TRAGARM

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0102.XX		7.00	1.076	0.888	5.88	7.804	2.697	21.07	
038.0110.XX		7.00	2.064	1.495	11.00	8.573	3.860	22.21	

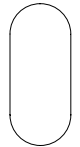
 RECHTHOEKIGE STAAF
 BARRE RECTANGULAIRE
 RECTANGULAR BAR
 FLACHPROFIL

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
0M0.3003.XX		6.00	0.007	0.045	1.50	0.675	0.450	15.00	

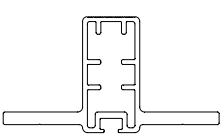
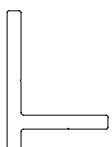
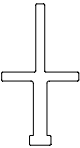
BUIS
TUBE
TUBE
ROHR

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	ax mm	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	ay mm	
038.0130.XX		7.00	17.870	5.673	31.50	21.493	6.823	31.50	
0B0.1601.XX		6.00	0.182	0.227	8.00	0.182	0.227	8.00	
0B0.0901.XX		6.00	0.020	0.045	4.50	0.020	0.045	4.50	

VERBINDINGSSTANG
TIGE DE RACCORDEMENT
CONNECTING ROD
VERBINDUNGSSTANGE

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	ax mm	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	ay mm	
038.0160.XX		7.00	1.696	1.211	14.00	0.332	0.554	6.00	

DRAAGPROFIEL LOOPROOSTER
MENEAU CAILLEBOTIS
SUSPENSION PROFILE WALKWAY
PFOSTENPROFIL LAUFROSTE

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	ax mm	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	ay mm	
038.0210.XX		7.00	78.499	15.548	22.51	179.395	26.382	68.00	
038.0215.XX		7.00	48.384	9.825	30.76	29.280	6.831	15.14	
038.0211.XX		7.00	172.674	25.011	55.46	22.297	6.558	34.00	

PROFIEL LOOPROOSTER
PROFILE DE CAILLEBOTIS
PROFILE WALKWAY
PROFIL LAUFROSTE

			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0200.XX		7.00	10.876	3.046	35.70	0.447	0.358	12.50	

AFDEKPROFIEL LOOPROOSTER
PROFILE DE RECOUVREMENT CAILLEBOTIS
COVERING PROFILE WALKWAY
ABDECKPROFIL LAUFROSTE

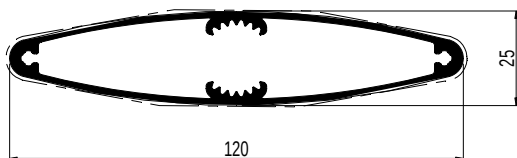
			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0220.XX		7.00	7.118	2.369	30.05	0.604	0.435	11.00	

ZIJPROFIEL LOOPROOSTER
PROFILE DE RIVE CAILLEBOTIS
EDGE PROFILE WALKWAY
SEITENPROFIL LAUFROSTE

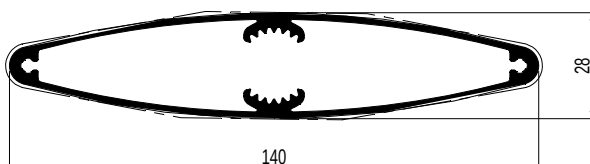
			$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0230.XX		7.00	58.844	9.821	50.08	3.918	1.803	8.27	

	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\overleftarrow{L_m}$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.1000.XX	25.41	25.4	7.00	4.048	3.239	12.50	67.870	11.312	60.00	
038.1001.XX	29.47	29.5	7.00	6.007	4.291	14.00	104.313	14.902	70.00	
038.1002.XX	37.67	37.7	7.00	12.444	6.913	18.00	220.669	24.519	90.00	
038.1003.XX	41.73	41.7	7.00	17.128	8.783	19.50	314.751	31.475	100.00	

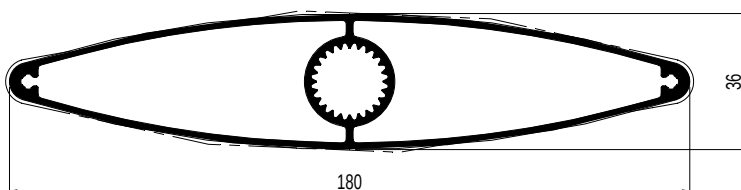
038.1000.XX



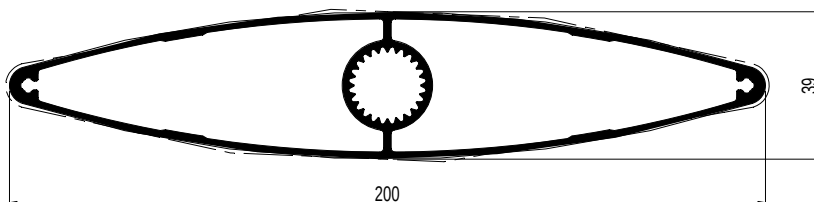
038.1001.XX



038.1002.XX



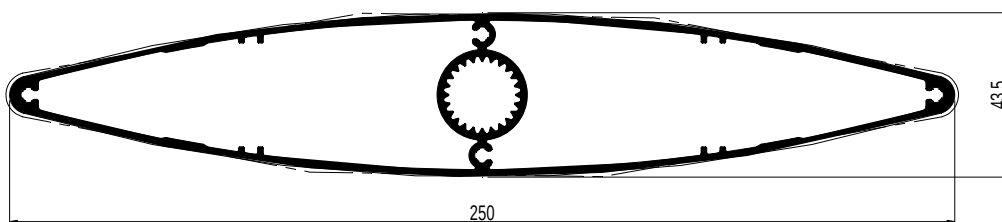
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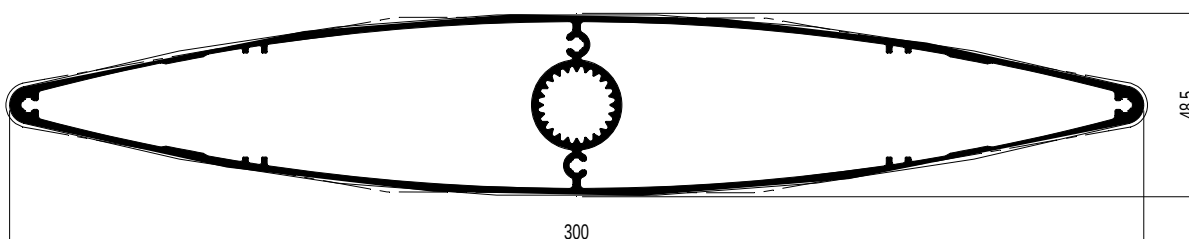
schaal - échelle
scale - Maßstab
1/2

	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\leftarrow L_m \rightarrow$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.1004.XX	51.76	51.8	7.00	28.005	12.876	21.75	625.219	50.018	125.00	
038.1005.XX	61.82	61.8	7.00	44.002	18.145	24.25	1139.208	75.947	150.00	
038.1006.XX	82.14	82.1	7.00	120.307	37.596	32.00	2617.175	130.859	200.00	

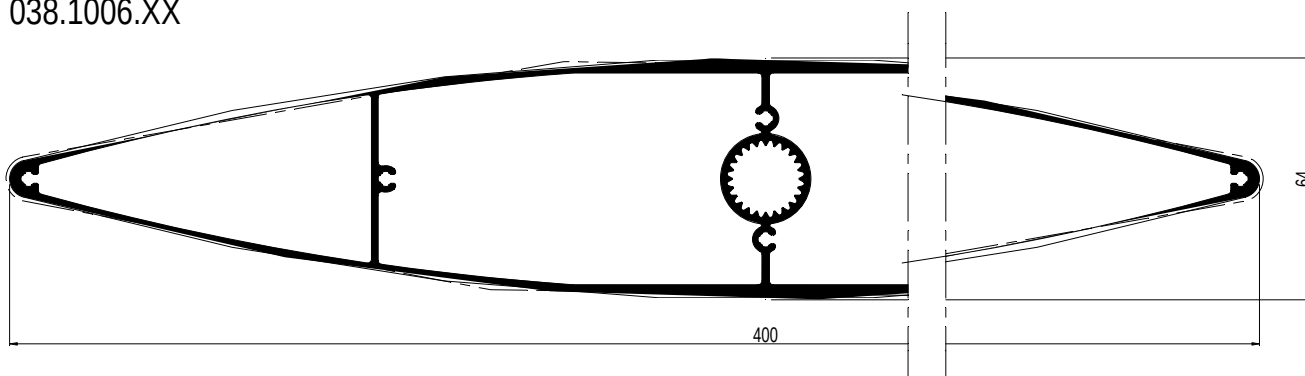
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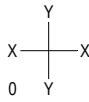


038.1005.XX

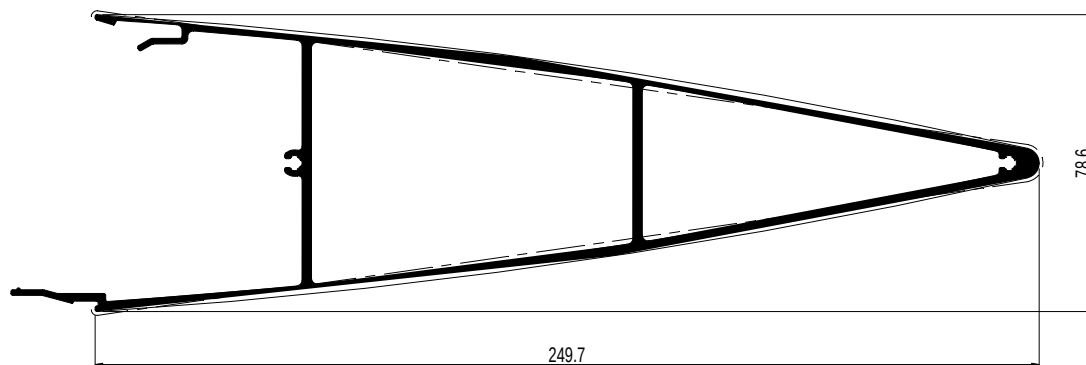


038.1006.XX

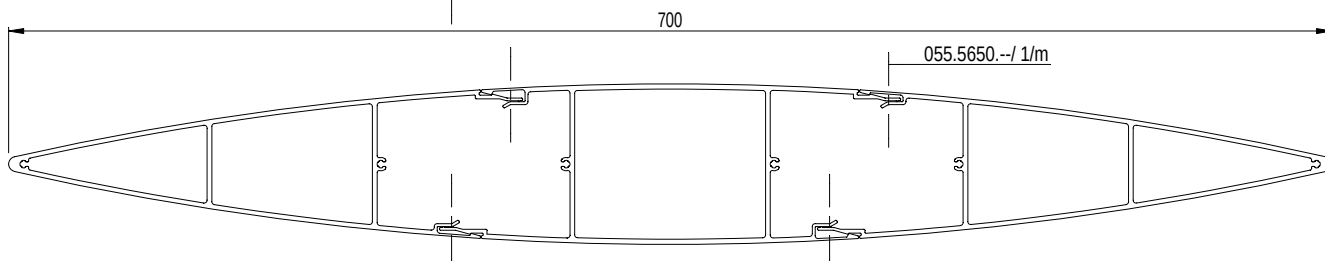
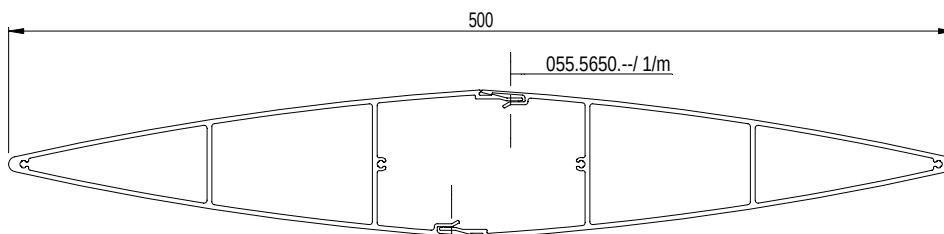
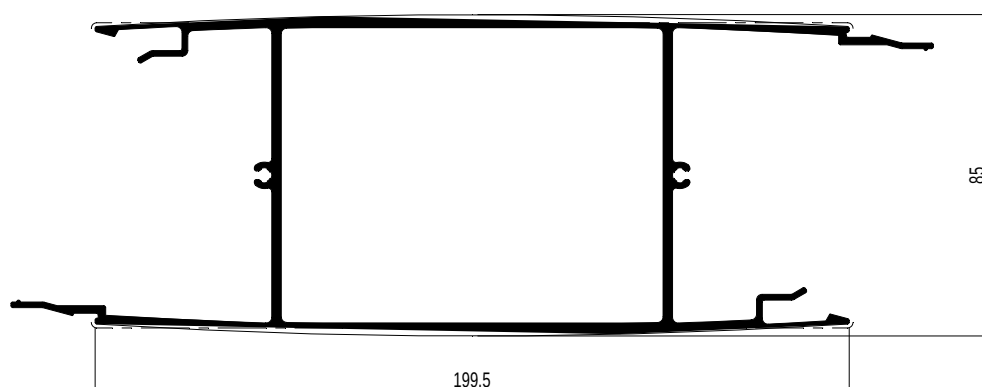


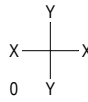
	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\overleftarrow{L_m}$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0007.XX	78.51	51.0	7.00	94.567	23.437	38.21	841.363	60.467	139.14	
038.0008.XX	95.83	40.0	7.00	201.804	47.483	42.50	559.784	45.884	122.00	

038.0007.XX

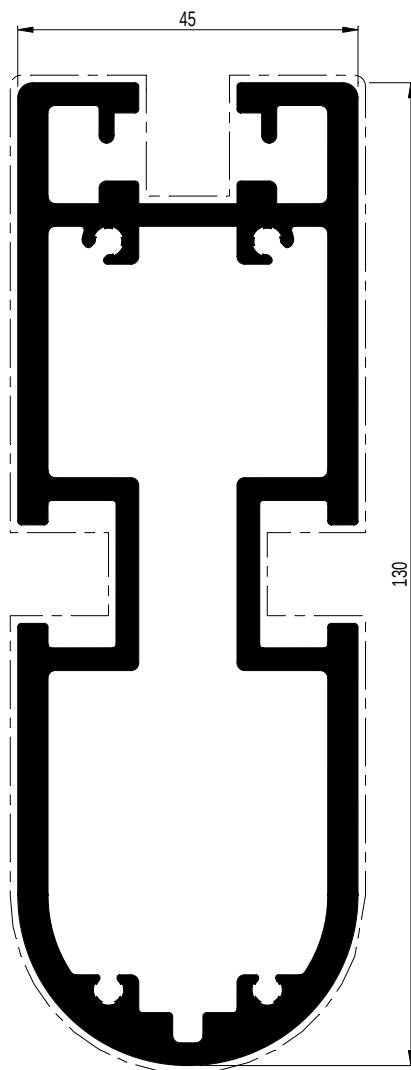


038.0008.XX

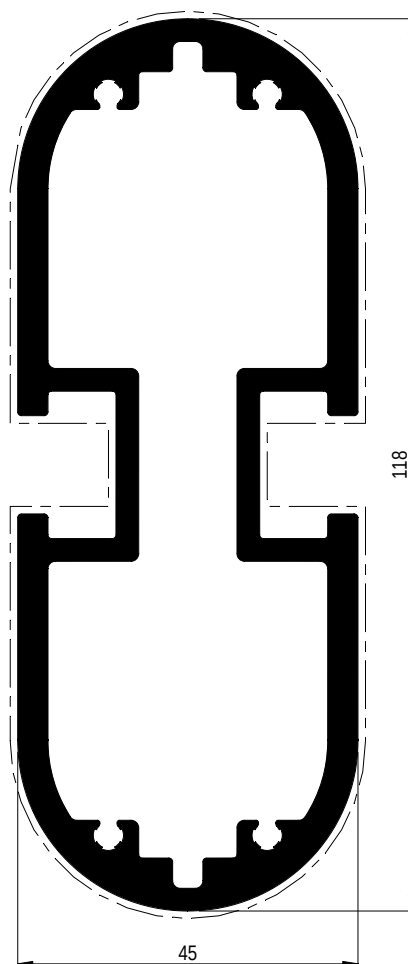


	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\leftarrow L_m \rightarrow$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0100.XX	50.95	37.4	7.00	273.649	39.758	68.83	44.347	19.710	22.50	
038.0101.XX	36.19	31.8	7.00	190.887	32.354	59.00	35.336	15.705	22.50	
038.0120.XX	7.28	1.3	7.00	0.104	0.131	7.92	0.355	0.374	9.50	

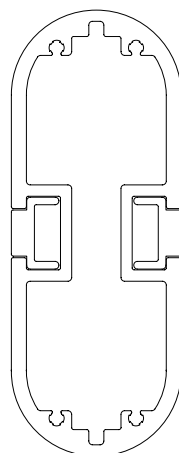
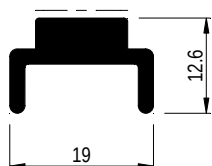
038.0100.XX

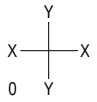


038.0101.XX

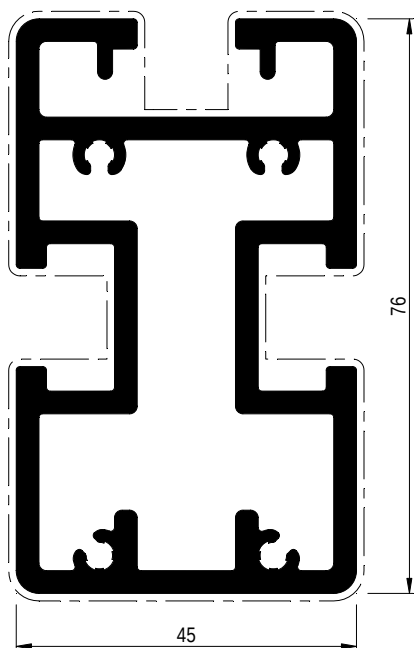


038.0120.XX

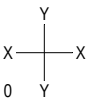


	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\overleftarrow{L_m}$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0106.XX	40.47	27.6	7.00	66.772	17.422	38.33	26.193	11.641	22.50	

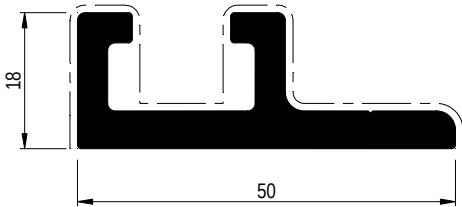
038.0106.XX



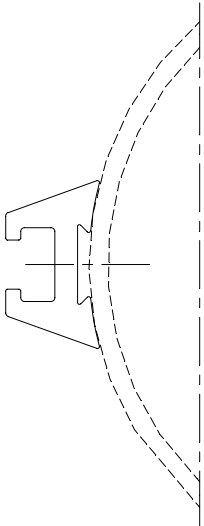
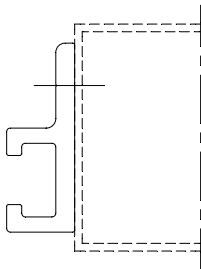
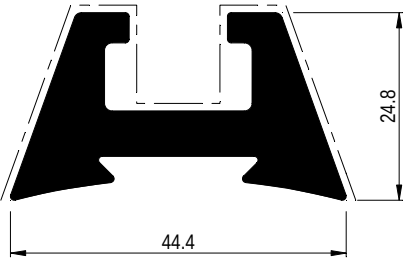


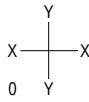
	 A dm ² /m	 P dm ² /m	 L _m	I _x cm ⁴	W _x cm ³	a _x mm	I _y cm ⁴	W _y cm ³	a _y mm	
038.0102.XX	16.92	10.0	7.00	1.076	0.888	5.88	7.804	2.697	21.07	
038.0110.XX	17.20	9.6	7.00	2.064	1.495	11.00	8.573	3.860	22.21	

038.0102.XX

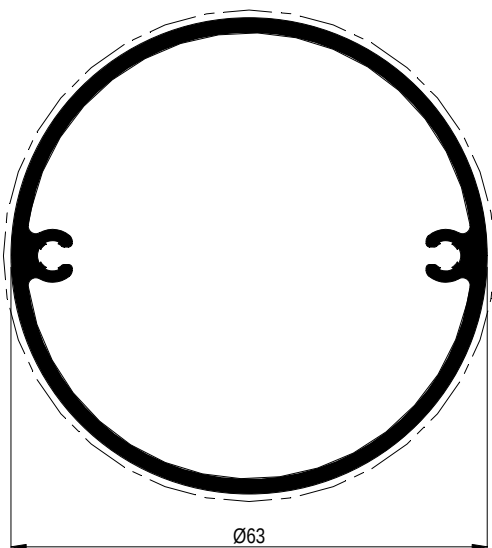


038.0110.XX

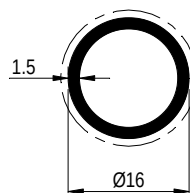


	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\overleftarrow{L_m}$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0130.XX	19.79	19.8	7.00	17.870	5.673	31.50	21.493	6.823	31.50	
0B0.0901.XX	2.83	2.8	6.00	0.020	0.045	4.50	0.020	0.045	4.50	
0B0.1601.XX	5.03	5.0	6.00	0.182	0.227	8.00	0.182	0.227	8.00	
0M0.3003.XX	6.60	3.6	6.00	0.007	0.045	1.50	0.675	0.450	15.00	

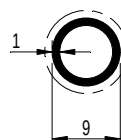
038.0130.XX



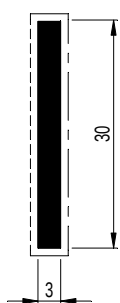
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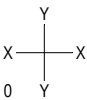


0B0.0901.XX

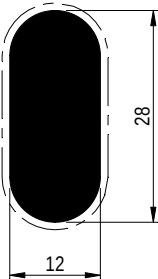


0M0.3003.XX



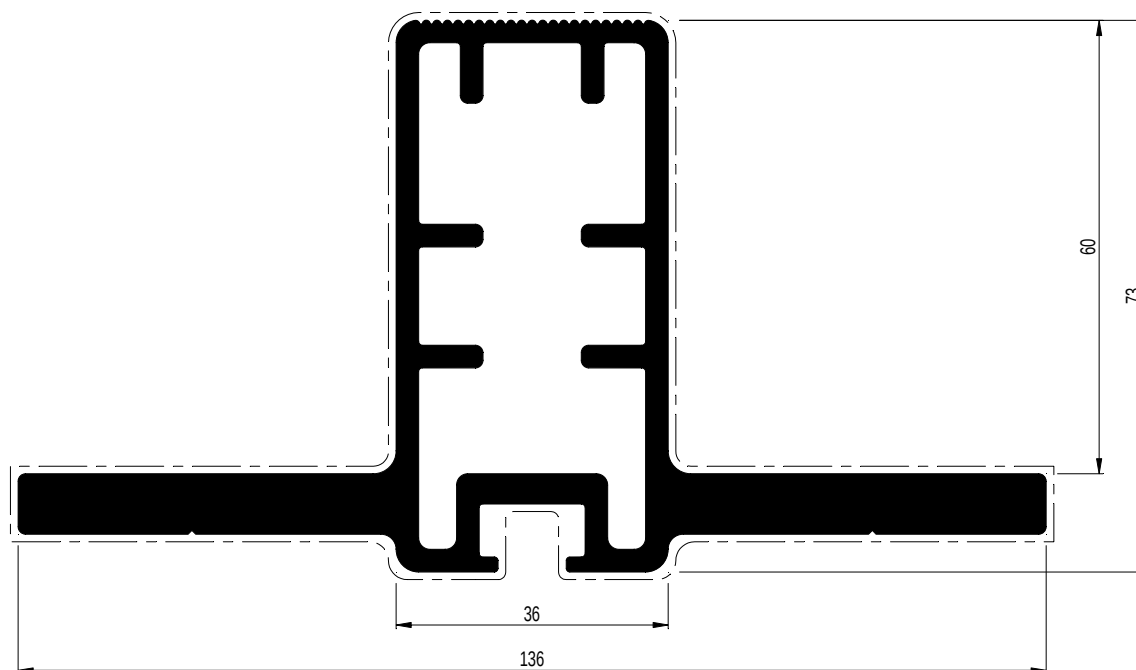
				$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0160.XX	6.97	7.0	7.00	1.696	1.211	14.00	0.332	0.554	6.00	

038.0160.XX

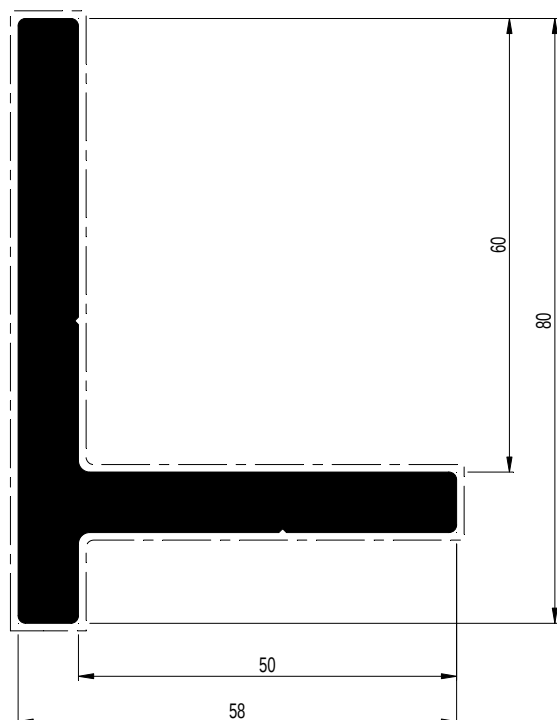


	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\overleftarrow{L_m}$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0210.XX	44.36	42.7	7.00	78.499	15.548	22.51	179.395	26.382	68.00	
038.0215.XX	27.30	27.3	7.00	48.384	9.825	30.76	29.280	6.831	15.14	

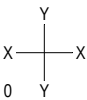
038.0210.XX



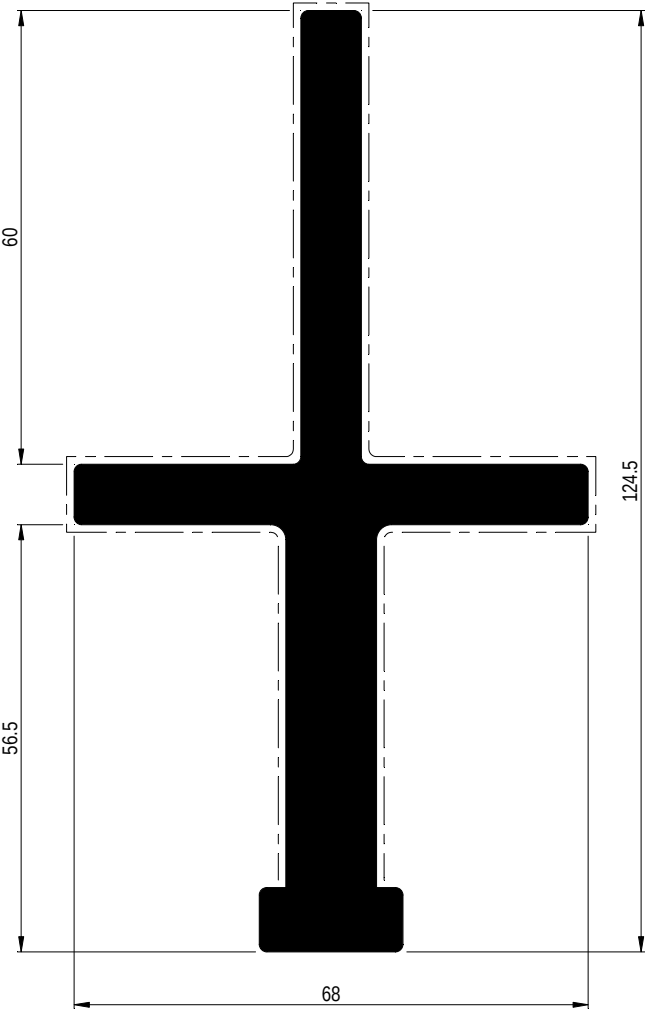
038.0215.XX





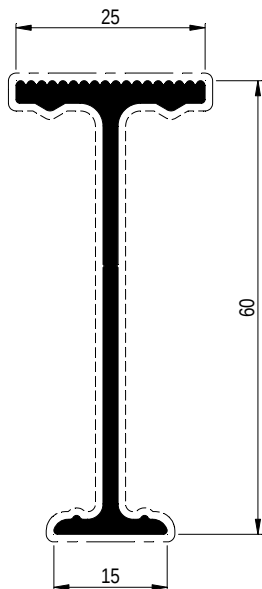
				$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0211.XX	39.21	35.1	7.00	172.674	25.011	55.46	22.297	6.558	34.00	

038.0211.XX

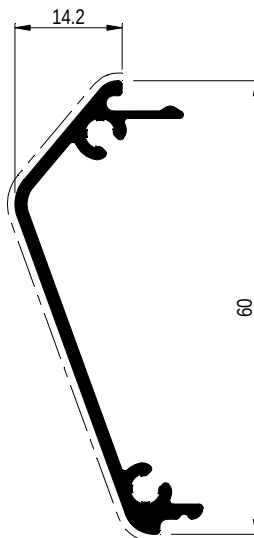


	$\frac{A}{dm^2/m}$	$\frac{P}{dm^2/m}$	$\overleftarrow{L_m}$	$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0200.XX	19.83	5.4	7.00	10.876	3.046	35.70	0.447	0.358	12.50	
038.0220.XX	19.93	7.2	7.00	7.118	2.369	30.05	0.604	0.435	11.00	
038.0230.XX	29.71	29.7	7.00	58.844	9.821	50.08	3.918	1.803	8.27	

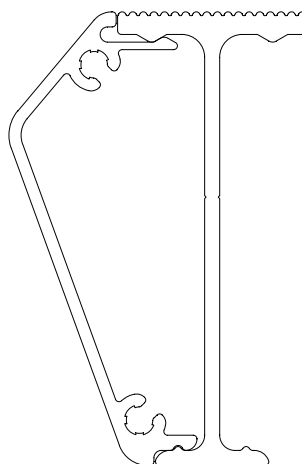
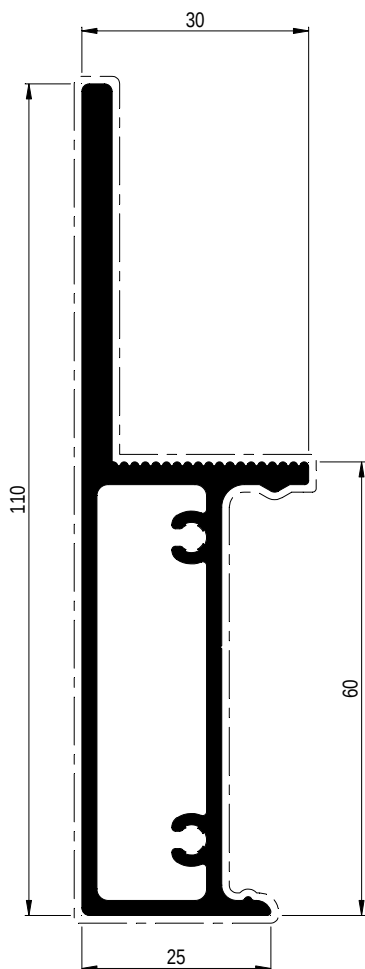
038.0200.XX



038.0220.XX

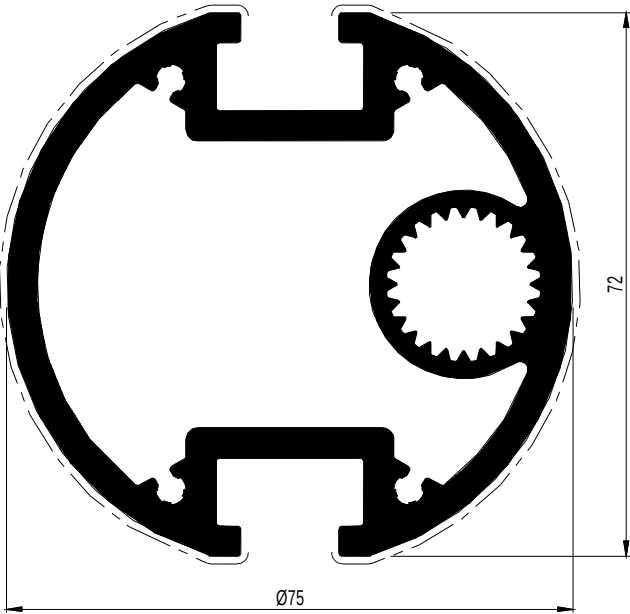


038.0230.XX



				$I_x \text{ cm}^4$	$W_x \text{ cm}^3$	$a_x \text{ mm}$	$I_y \text{ cm}^4$	$W_y \text{ cm}^3$	$a_y \text{ mm}$	
038.0104.XX	30.96	21.0	7.00	70.283	17.232	34.21	67.619	18.782	36.00	

038.0104.XX



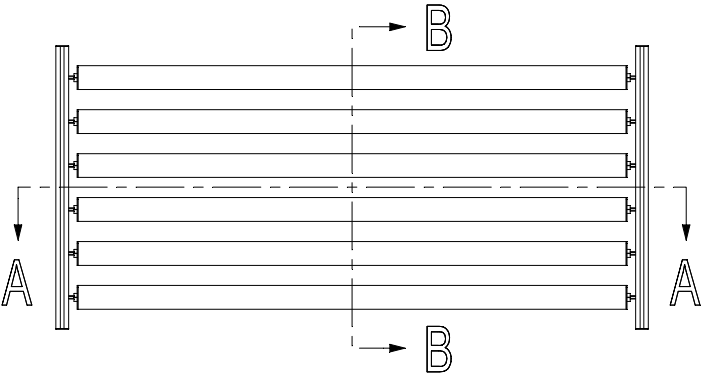
E

Werktekeningen

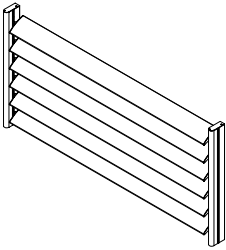
Coupes et débits

Work drawings

Werkzeichnungen



BINNENAANZICHT
 VUE INTERIEURE
 INSIDE VIEW
 INNENSICHT

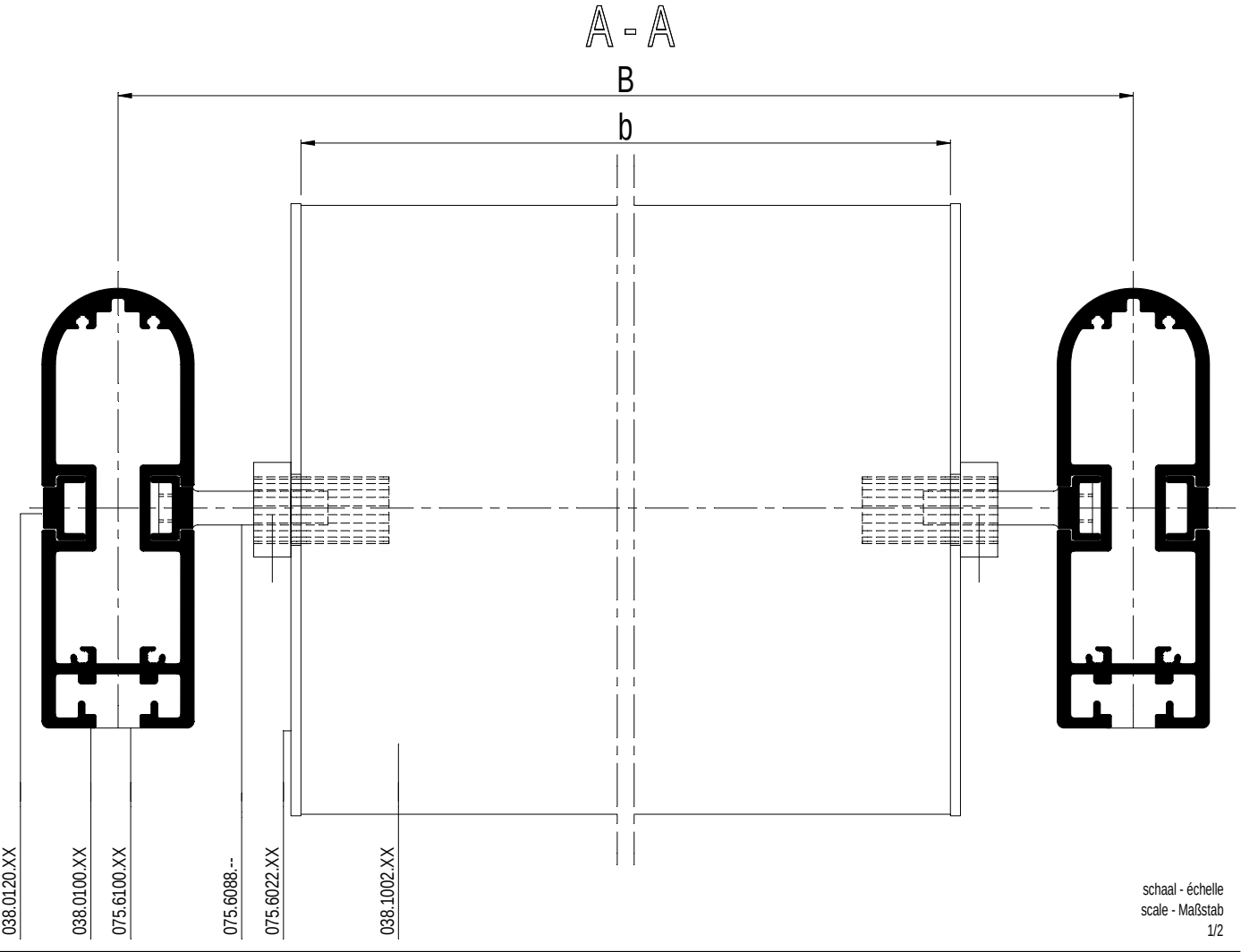


n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

* PER LAMEL
 * PAR LAME
 * PER LOUVRE
 * PER LAMELLE

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			$(n - 1) \times 2$	h - 90	
			4	$H - 95 - h \cdot (n - 1)$ 2	
038.0100.XX			2	H - 5	56.C...
038.1002.XX			n	B - 111	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6022.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6088.--		2 *	56.G...

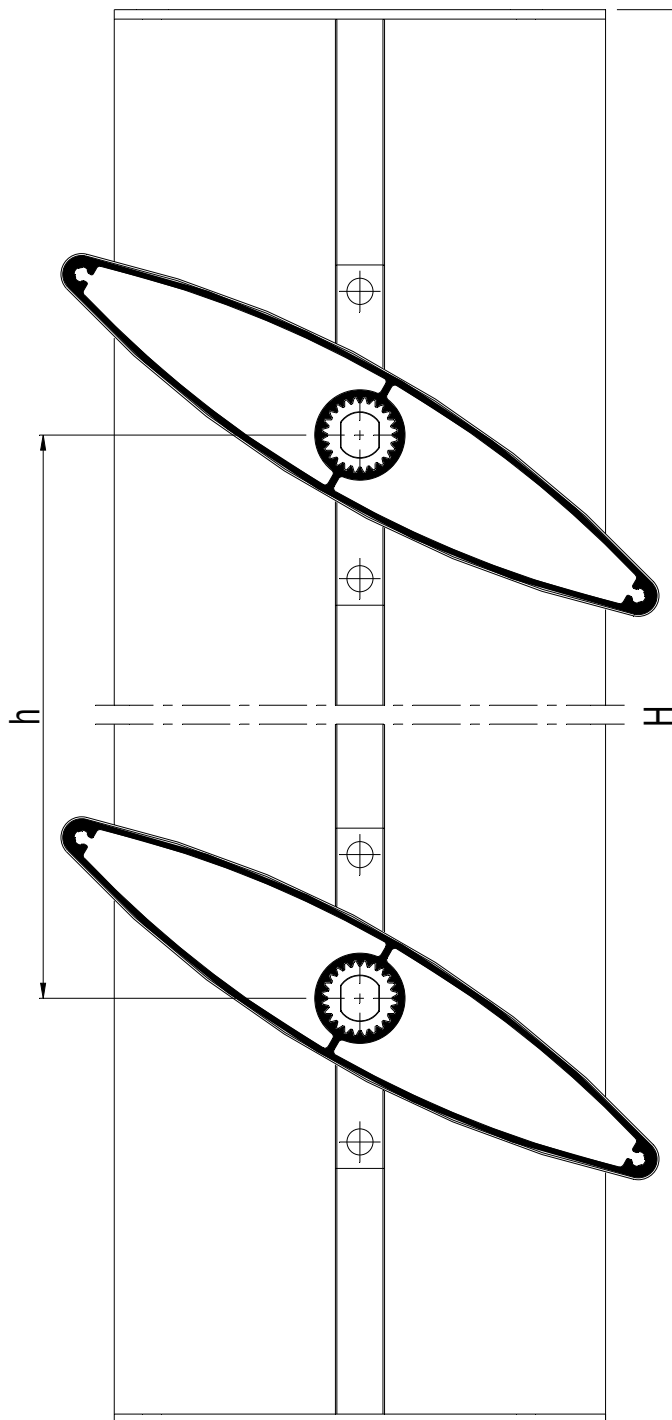


schaal - échelle
 scale - Maßstab
 1/2

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
0° / 15° / 30° / 45° / 60° / 75° / 90°

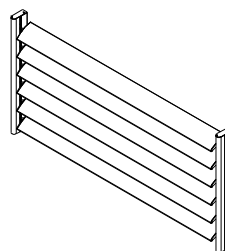
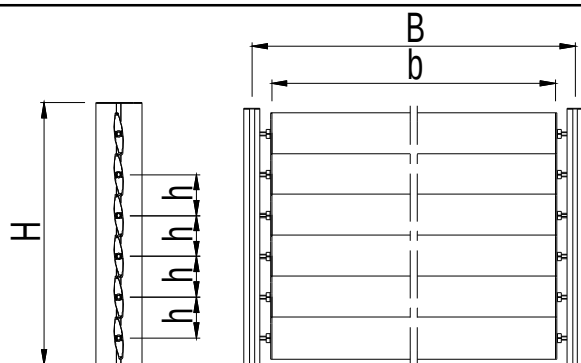
AFSTAND / BREEDTE / HOEKINCLINATIE LAMEL
DISTANCE / LARGEUR / INCLINAISON D'ANGLE LAME
DISTANCE / WIDTH / ANGLE INCLINATION LOUVRE
ABSTAND / BREITE / WINKELINKLINATION LAMELLE
56.E.008-009

B - B



schaal - échelle
scale - Maßstab
1/2

D0061183

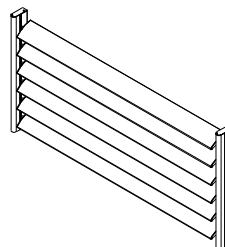
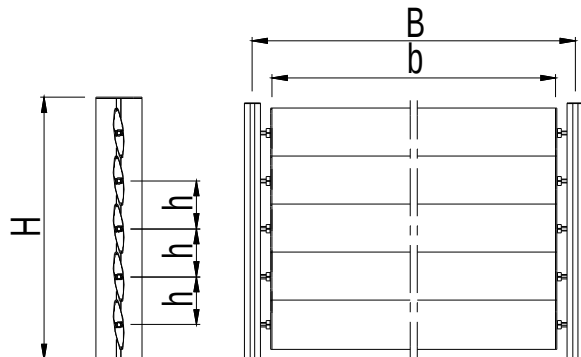


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1000.XX			n	B - 111	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6020.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6088.--		2*	56.G...

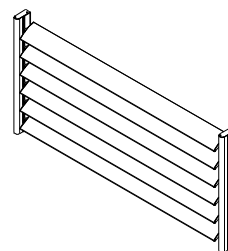
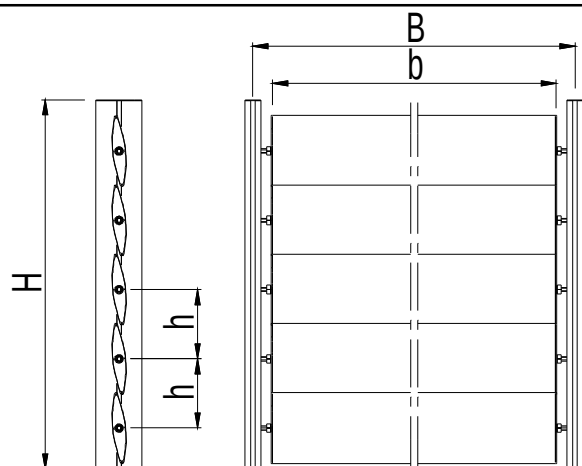


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
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* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1001.XX			n	B - 111	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6021.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6088.--		2*	56.G...

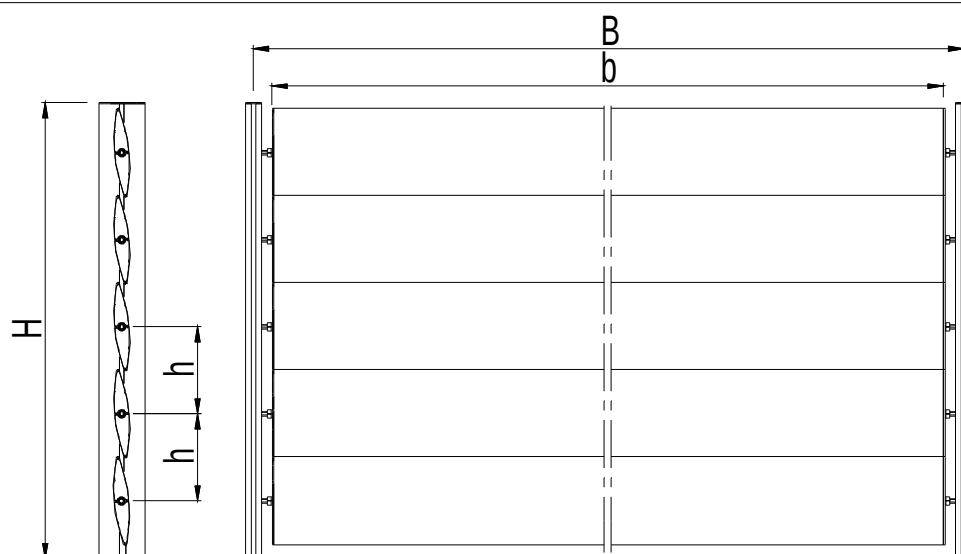


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
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* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

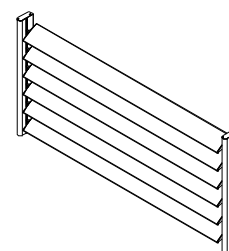
			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1003.XX			n	B - 111	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6023.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6088.--		2*	56.G...



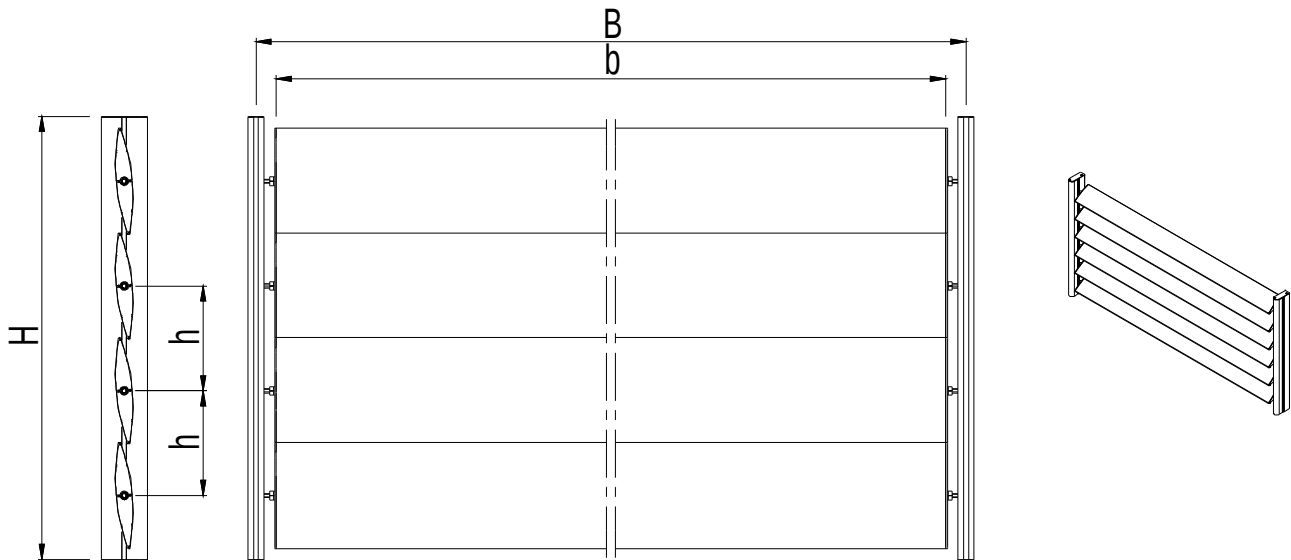
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE



			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1004.XX			n	B - 115	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6024.XX		2*	56.G...
052.5311.--		8*	56.G...
075.6088.--		2*	56.G...

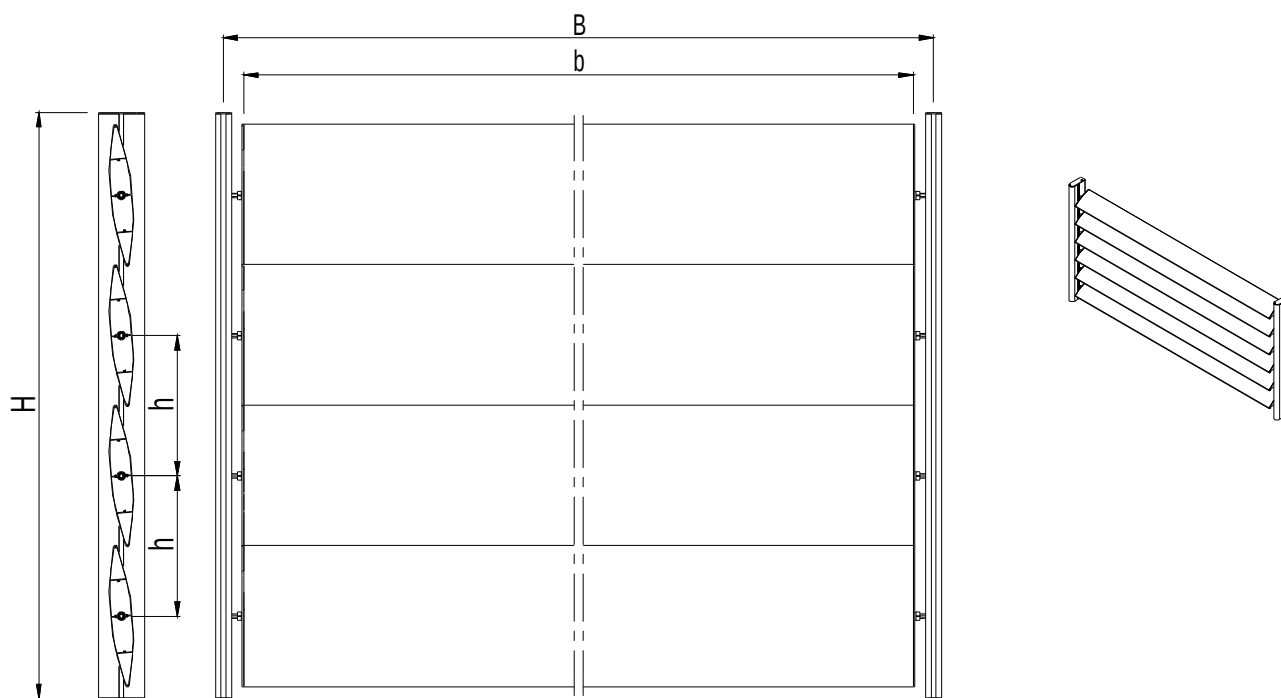


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			$(n - 1) \times 2$	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1005.XX			n	B - 115	56.C...
					

		#	
075.6100.XX 052.5311.--		4	56.G...
		8	56.G...
075.6025.XX 052.5311.--		2*	56.G...
		8*	56.G...
075.6088.--		2*	56.G...

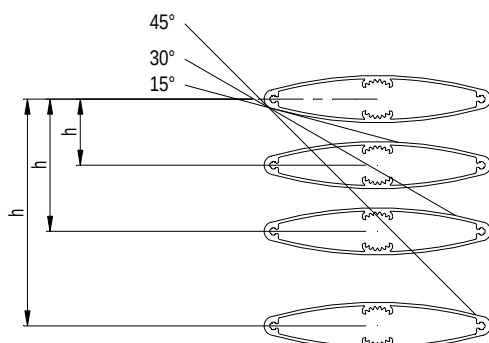
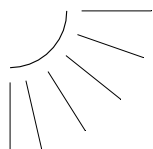


n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

* PER LAMEL
 * PAR LAME
 * PER LOUVRE
 * PER LAMELLE

			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			$(n - 1) \times 2$	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1006.XX			2	B - 115	56.C...

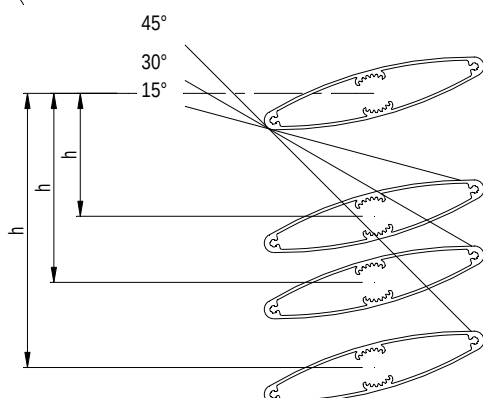
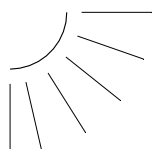
		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6026.XX		2*	56.G...
052.5311.--		12 *	56.G...
075.6088.--		2*	56.G...



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

0°

	Lw	h		
PR. NR.		15°	30°	45°
038.1000.XX	120 mm	35	70	120
038.1001.XX	140 mm	40	85	140
038.1002.XX	180 mm	55	105	180
038.1003.XX	200 mm	60	120	200
038.1004.XX	250 mm	70	145	250
038.1005.XX	300 mm	85	175	300
038.1006.XX	400 mm	110	235	400



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

15°

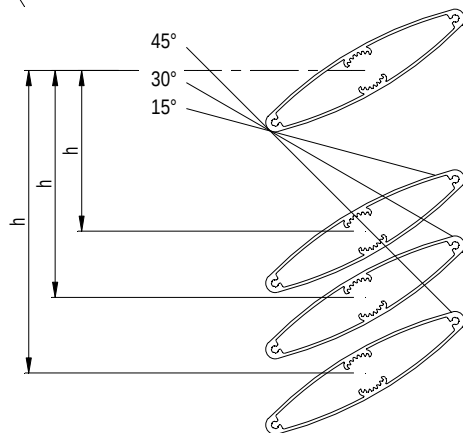
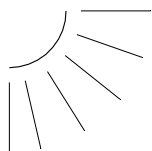
	Lw	h		
PR. NR.		15°	30°	45°
038.1000.XX	120 mm	65	100	145
038.1001.XX	140 mm	75	115	170
038.1002.XX	180 mm	95	145	220
038.1003.XX	200 mm	105	165	245
038.1004.XX	250 mm	130	205	305
038.1005.XX	300 mm	155	245	365
038.1006.XX	400 mm	210	325	485

Lw

LAMELLENBREEDTE
 LARGEUR DES LAMES
 LAMELLA WIDTH
 LAMELLENBREITE

h

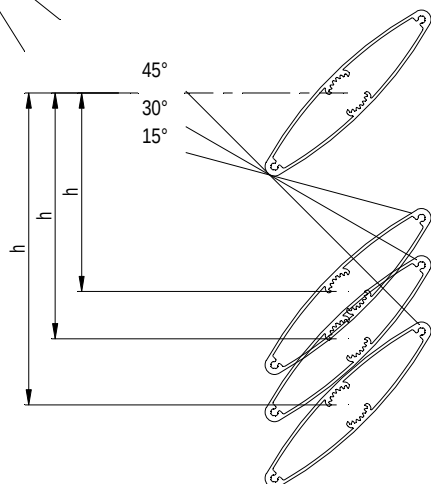
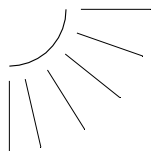
LAMELLENAFSTAND
 DISTANCE DES LAMES
 LAMELLA DISTANCE
 LAMELLENABSTAND



LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG

30°

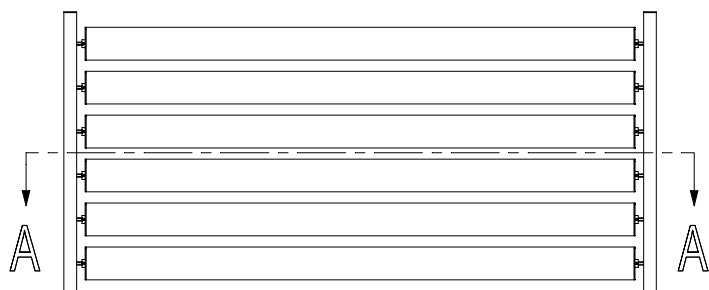
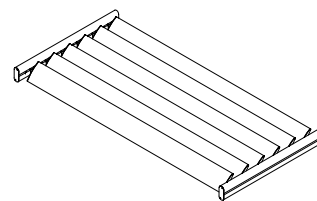
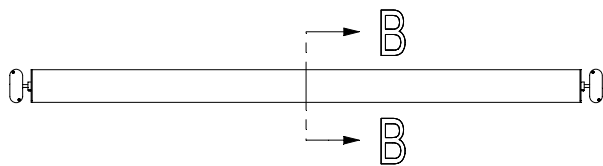
	Lw	h		
PR. NR.		15°	30°	45°
038.1000.XX	120 mm	85	120	160
038.1001.XX	140 mm	100	140	185
038.1002.XX	180 mm	130	180	240
038.1003.XX	200 mm	145	200	270
038.1004.XX	250 mm	180	250	335
038.1005.XX	300 mm	220	300	405
038.1006.XX	400 mm	290	400	540



LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG

45°

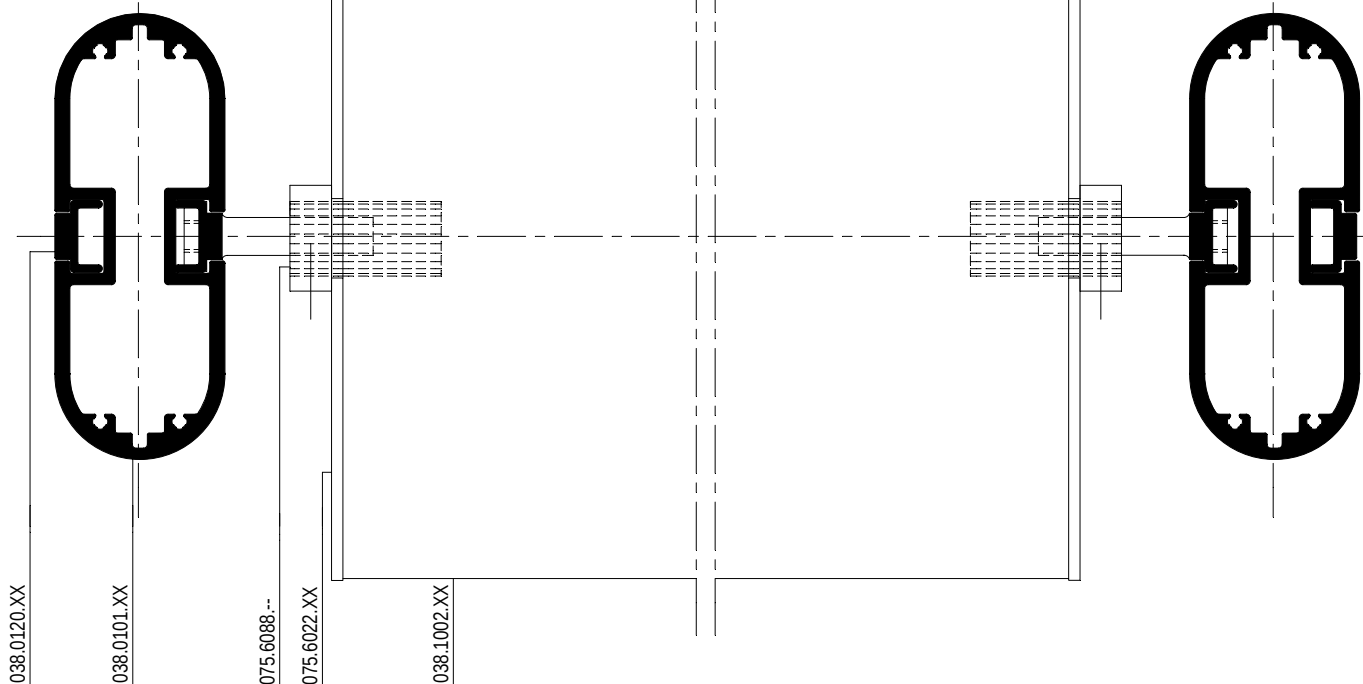
	Lw	h		
PR. NR.		15°	30°	45°
038.1000.XX	120 mm	105	130	165
038.1001.XX	140 mm	125	155	195
038.1002.XX	180 mm	160	195	250
038.1003.XX	200 mm	175	220	280
038.1004.XX	250 mm	220	275	350
038.1005.XX	300 mm	265	330	420
038.1006.XX	400 mm	355	445	560



A - A

B

b



038.0120.XX

038.0101.XX

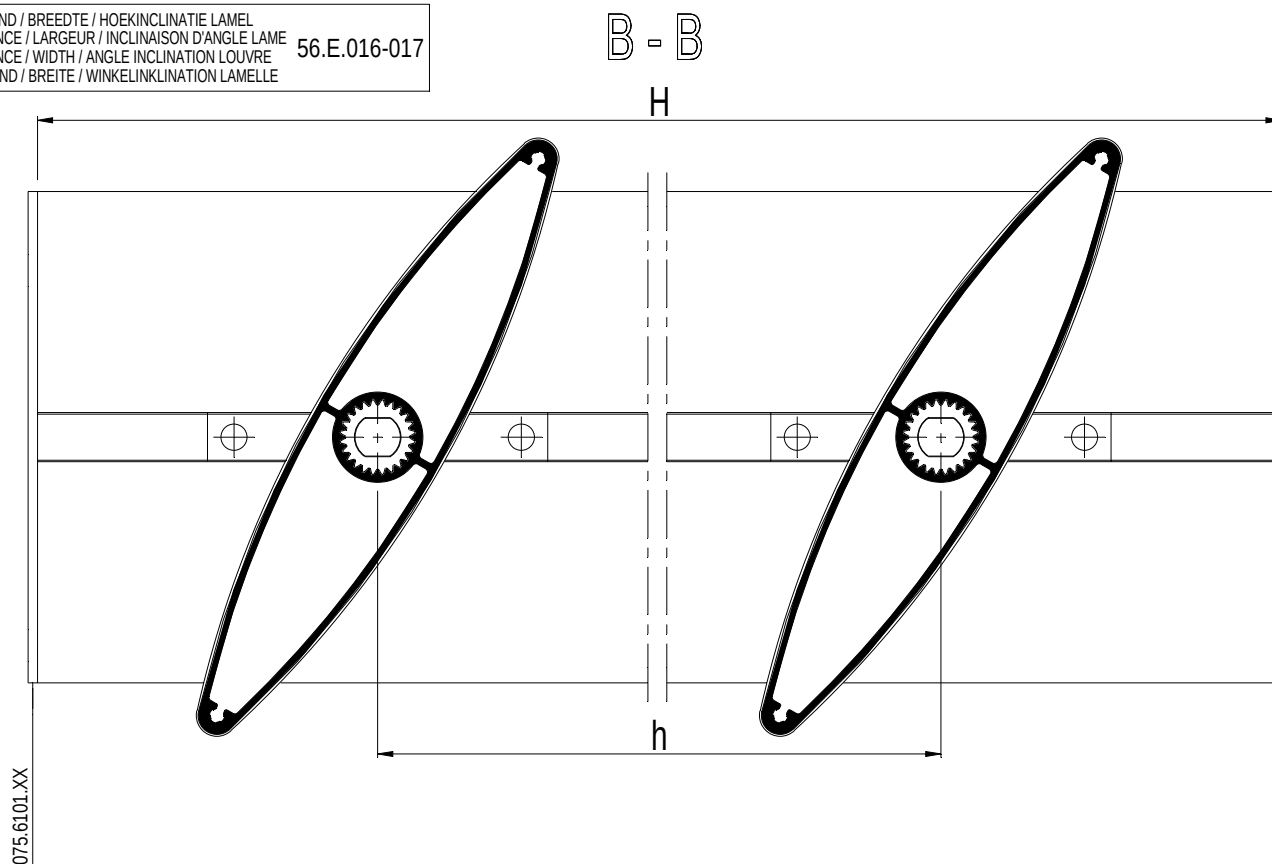
075.6088.--

075.6022.XX

038.1002.XX

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
0° / 15° / 30° / 45° / 60° / 75° / 90°

AFSTAND / BREEDTE / HOEKINCLINATIE LAMEL
DISTANCE / LARGEUR / INCLINAISON D'ANGLE LAME
DISTANCE / WIDTH / ANGLE INCLINATION LOUVRE
ABSTAND / BREITE / WINKELINKLINATION LAMELLE
56.E.016-017

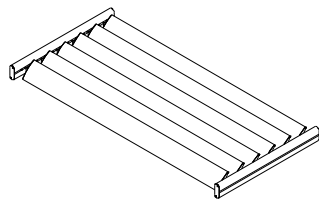
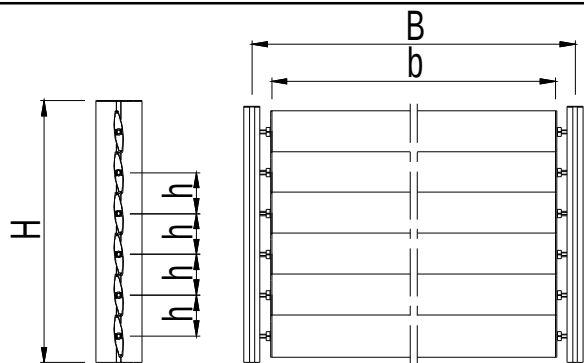


			#	L_m	
038.0120.XX			2	H - 2.5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0101.XX			2	H - 2.5	56.C...
038.1002.XX			n	B - 111	56.C...

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

		#	
075.6101.XX		2	56.G...
052.5311.--		4	56.G...
075.6022.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6088.--		2 *	56.G...

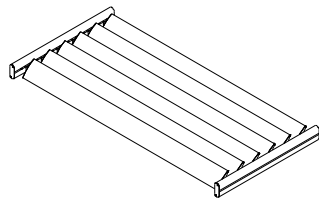
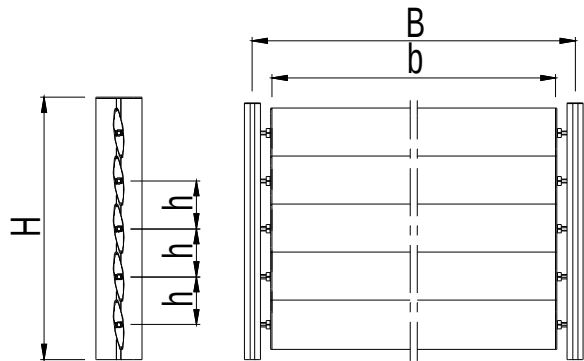


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#		
038.0120.XX			2	H - 2.5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 2.5	56.C...
038.1000.XX			n	B - 111	56.C...

		#	
075.6100.XX		2	56.G...
052.5311.--		4	56.G...
075.6020.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6088.--		2*	56.G...

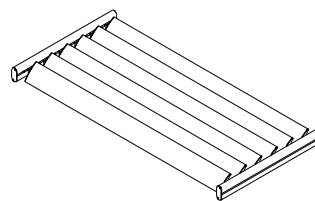
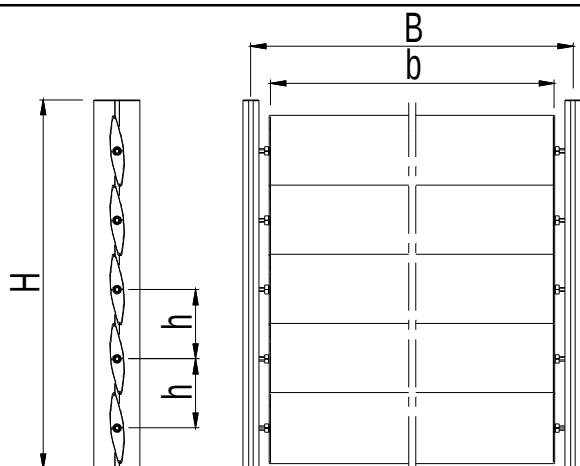


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#		
038.0120.XX			2	H - 2.5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 2.5	56.C...
038.1001.XX			n	B - 111	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6021.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6088.--		2*	56.G...

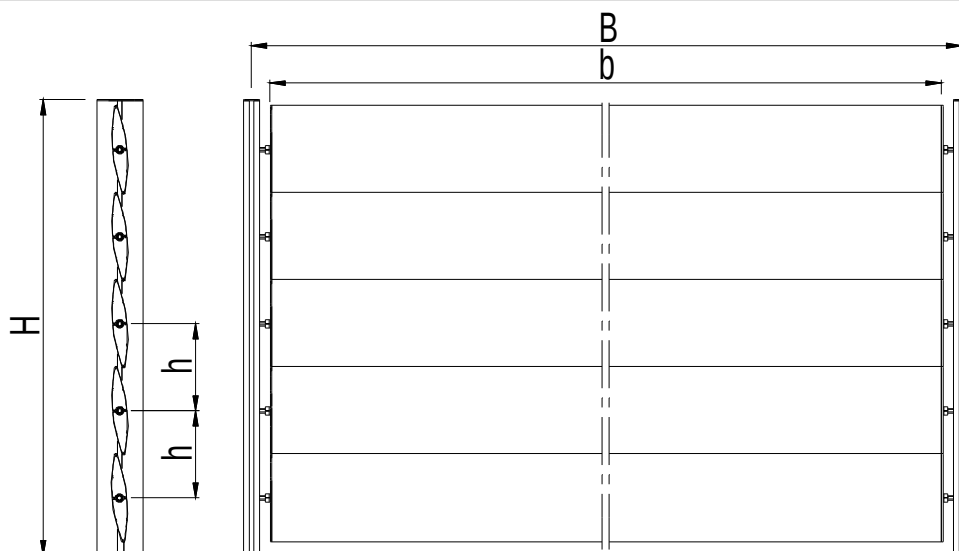


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

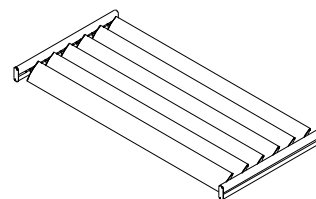
			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1003.XX			n	B - 111	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6023.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6088.--		2*	56.G...



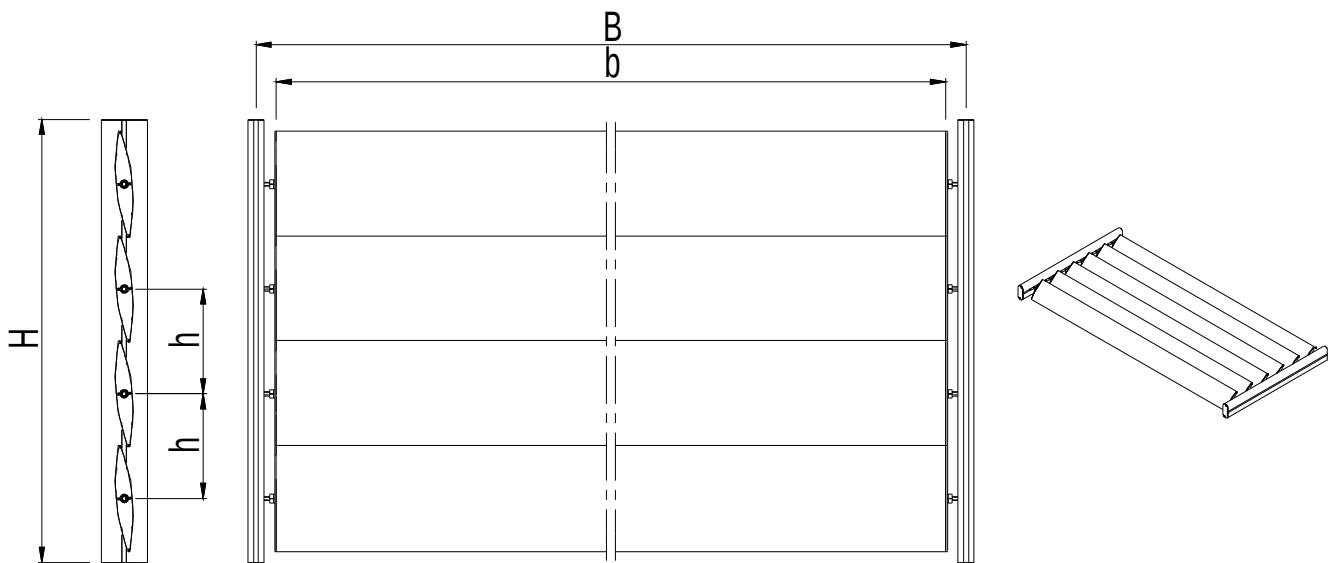
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE



			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1004.XX			n	B - 115	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6024.XX		2*	56.G...
052.5311.--		8*	56.G...
075.6088.--		2*	56.G...

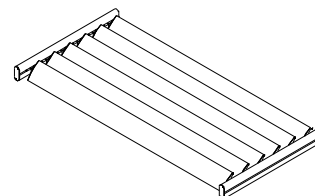
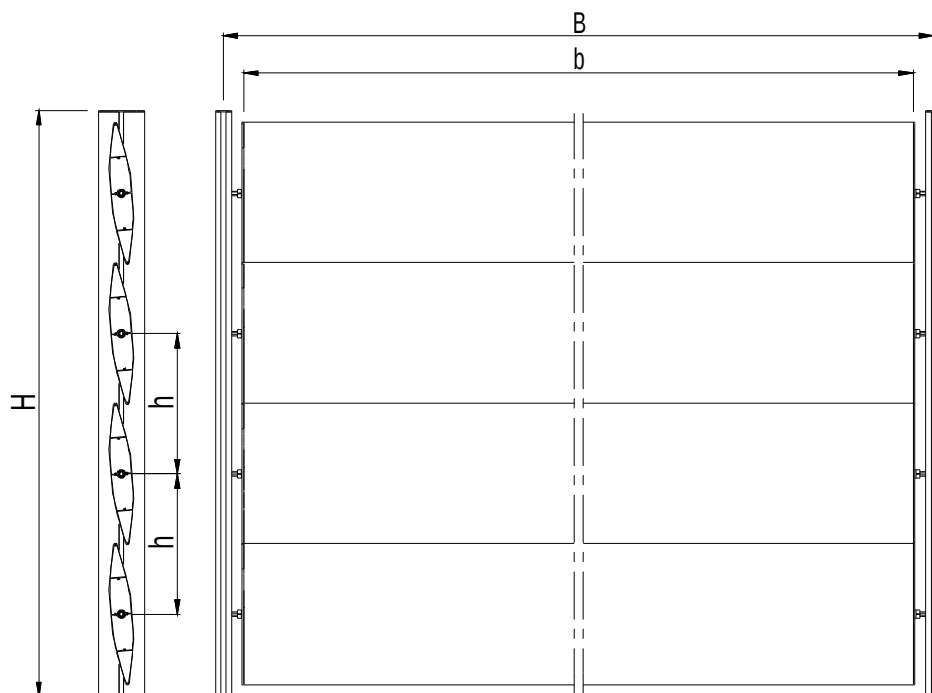


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			$(n - 1) \times 2$	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1005.XX			n	B - 115	56.C...
					

		#	
075.6100.XX 052.5311.--	 	4	56.G...
		8	56.G...
075.6025.XX 052.5311.--	 	2*	56.G...
		8*	56.G...
075.6088.--		2*	56.G...

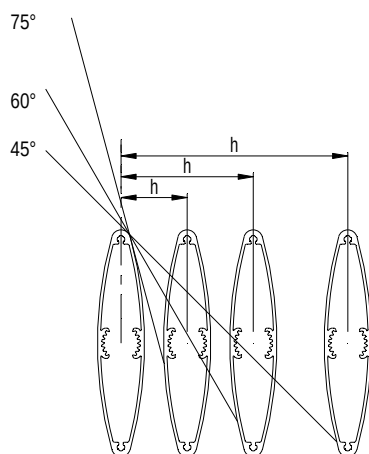
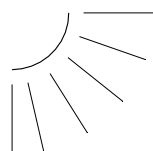


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			$(n - 1) \times 2$	h - 90	
			4	$\frac{H - 92.5 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1006.XX			2	B - 115	56.C...

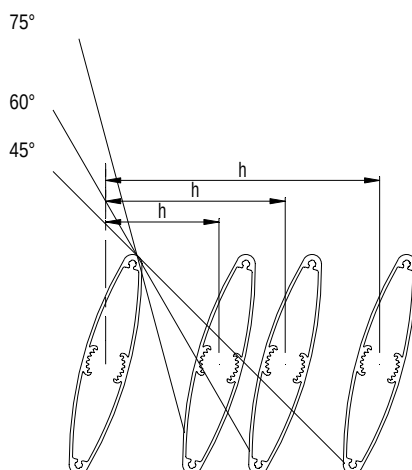
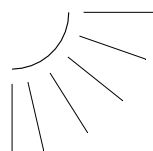
		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6026.XX		2*	56.G...
052.5311.--		12 *	56.G...
075.6088.--		2*	56.G...



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

0°

	Lw	h		
PR. NR.		45°	60°	75°
038.1000.XX	120 mm	120	70	35
038.1001.XX	140 mm	140	85	40
038.1002.XX	180 mm	180	105	50
038.1003.XX	200 mm	200	115	55
038.1004.XX	250 mm	250	145	70
038.1005.XX	300 mm	300	175	85
038.1006.XX	400 mm	400	230	110



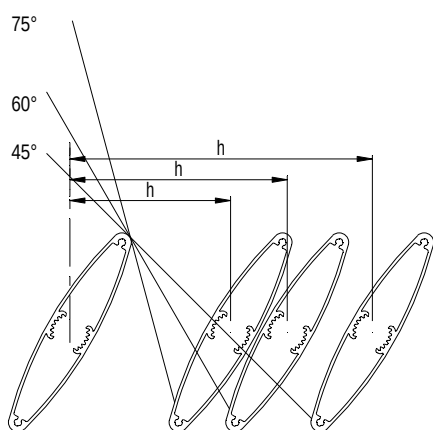
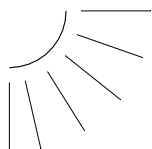
LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

15°

	Lw	h		
PR. NR.		45°	60°	75°
038.1000.XX	120 mm	145	95	60
038.1001.XX	140 mm	170	115	70
038.1002.XX	180 mm	215	145	90
038.1003.XX	200 mm	245	160	105
038.1004.XX	250 mm	305	200	130
038.1005.XX	300 mm	365	240	155
038.1006.XX	400 mm	485	325	205

Lw LAMELLENBREEDTE
 LARGEUR DES LAMES
 LAMELLA WIDTH
 LAMELLENBREITE

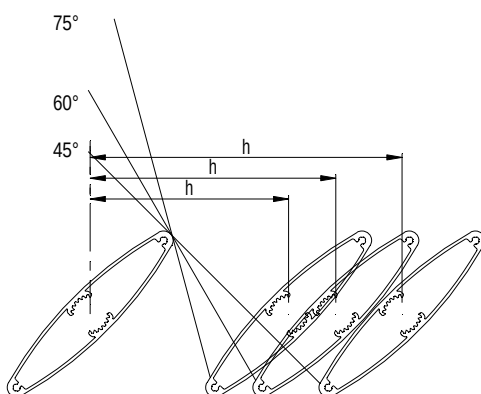
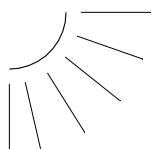
h LAMELLENAFSTAND
 DISTANCE DES LAMES
 LAMELLA DISTANCE
 LAMELLENABSTAND



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

30°

	Lw	h		
PR. NR.		45°	60°	75°
038.1000.XX	120 mm	160	115	85
038.1001.XX	140 mm	185	135	100
038.1002.XX	180 mm	240	175	130
038.1003.XX	200 mm	270	195	145
038.1004.XX	250 mm	335	245	180
038.1005.XX	300 mm	405	295	220
038.1006.XX	400 mm	540	395	290



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

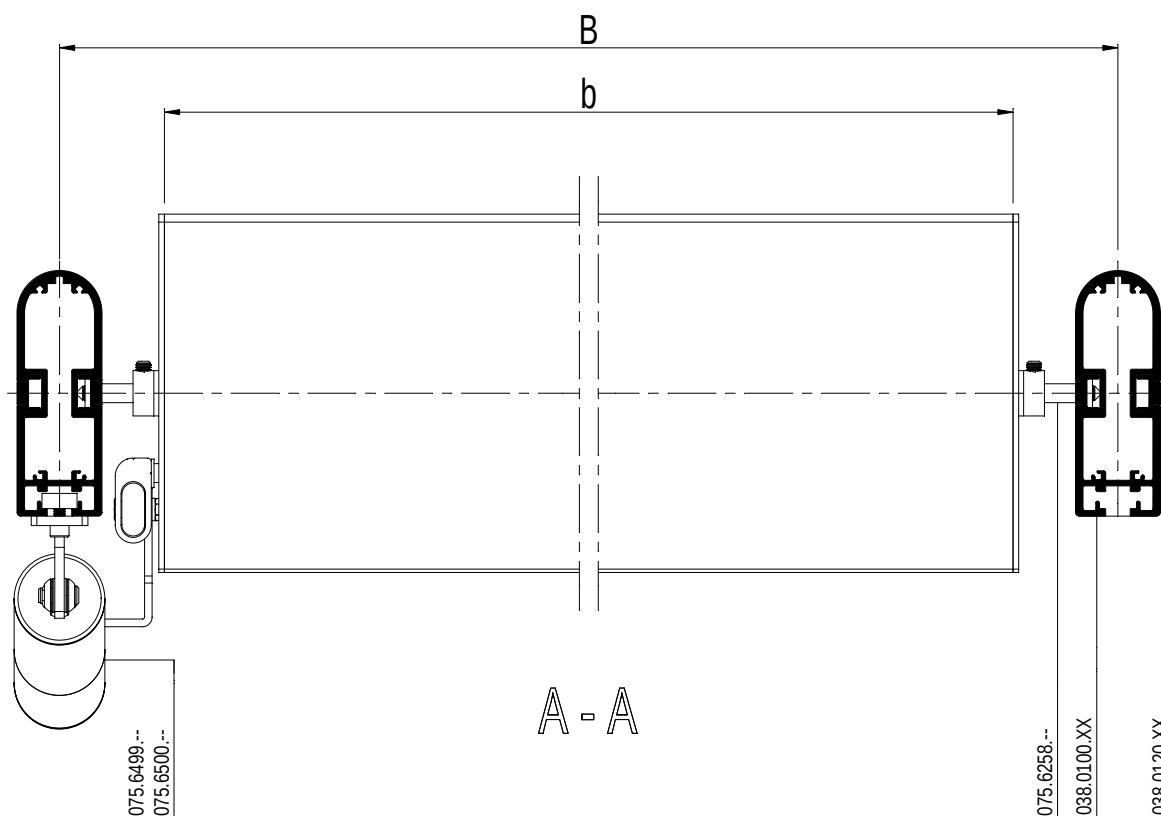
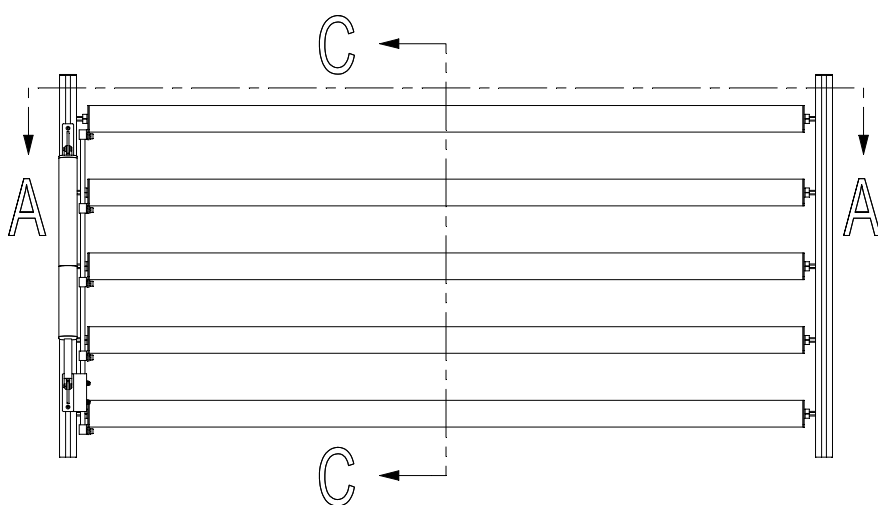
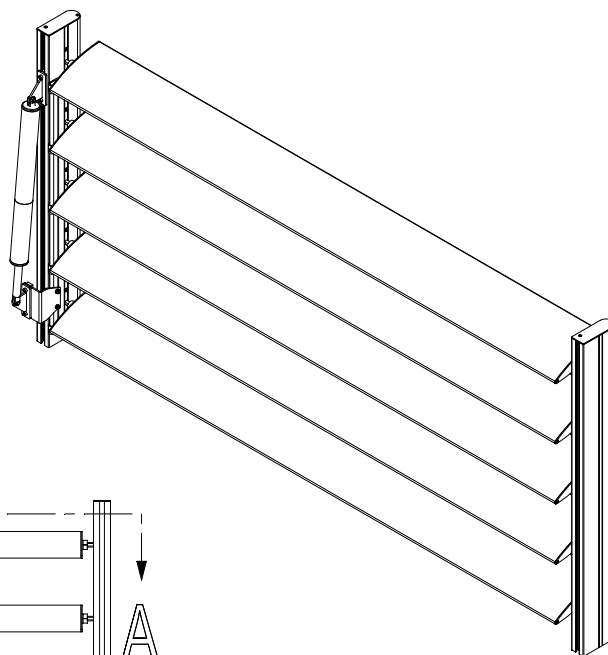
45°

	Lw	h		
PR. NR.		45°	60°	75°
038.1000.XX	120 mm	165	130	105
038.1001.XX	140 mm	195	155	125
038.1002.XX	180 mm	250	195	160
038.1003.XX	200 mm	280	220	175
038.1004.XX	250 mm	350	275	220
038.1005.XX	300 mm	420	330	265
038.1006.XX	400 mm	560	440	355

BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENSICHT

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG

VARIABEL

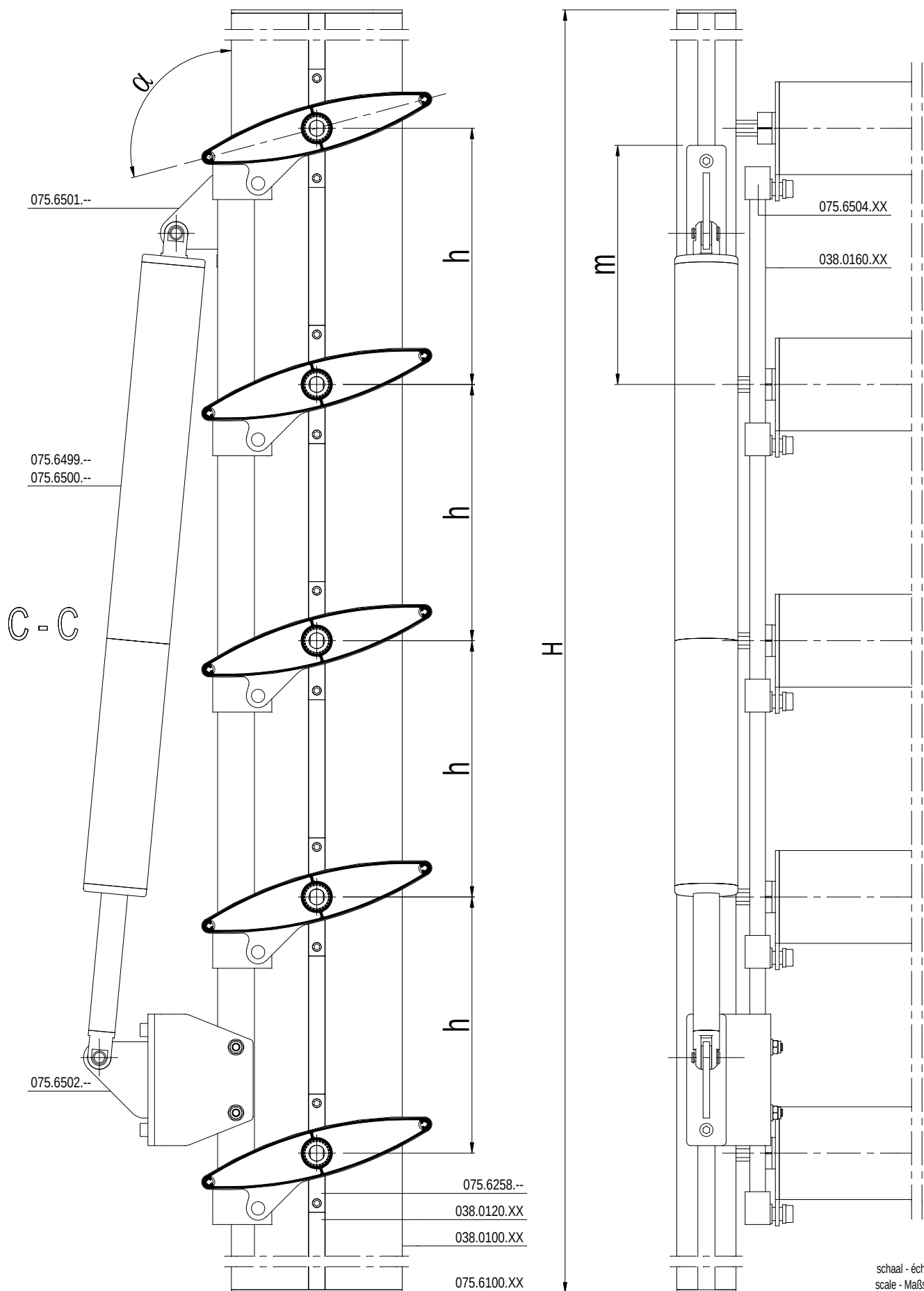


075.6258.-

038.0100.XX

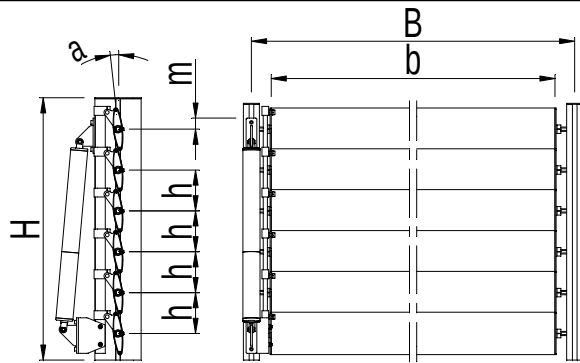
038.0120.XX

schaal - échelle
scale - Maßstab
1/4



schaal - échelle
scale - Maßstab
1/4

D0061204



a: min. 6° (*)
a: max. 140°

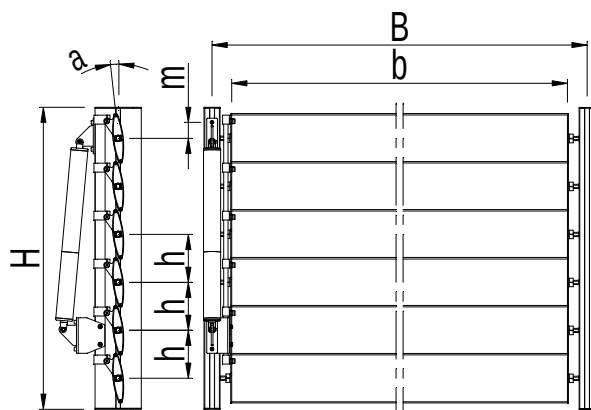
h: 115 mm
m: 31 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1000.XX			n	B - 111	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6020.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6070.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...



a: min. 6° (*)
a: max. 130°

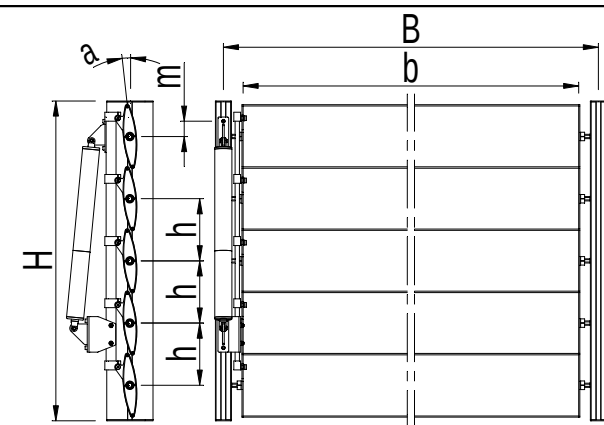
h: 135 mm
m: 57 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1001.XX			n	B - 111	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6021.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6071.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...



a: min. 5° (*)

a: max. 115°

h: 175 mm

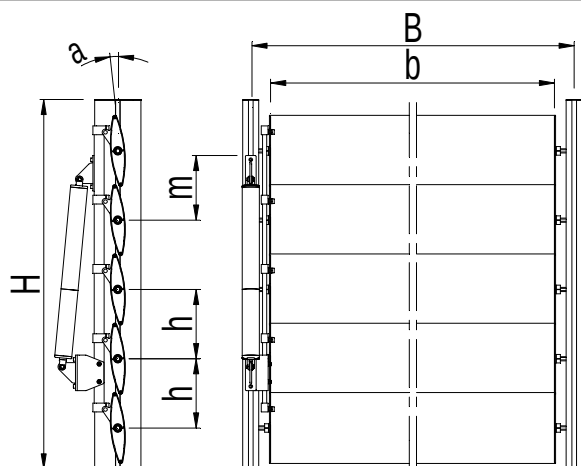
m: 55 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L _m	
038.0120.XX			2	H - 5	56.C...
		(n - 1) x 2		h - 90	
		4		H - 95 - h . (n - 1)	
				2	
038.0100.XX			2	H - 5	56.C...
038.1002.XX			n	B - 111	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6022.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6072.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...



a: min. 3° (*)

a: max. 110°

h: 195 mm

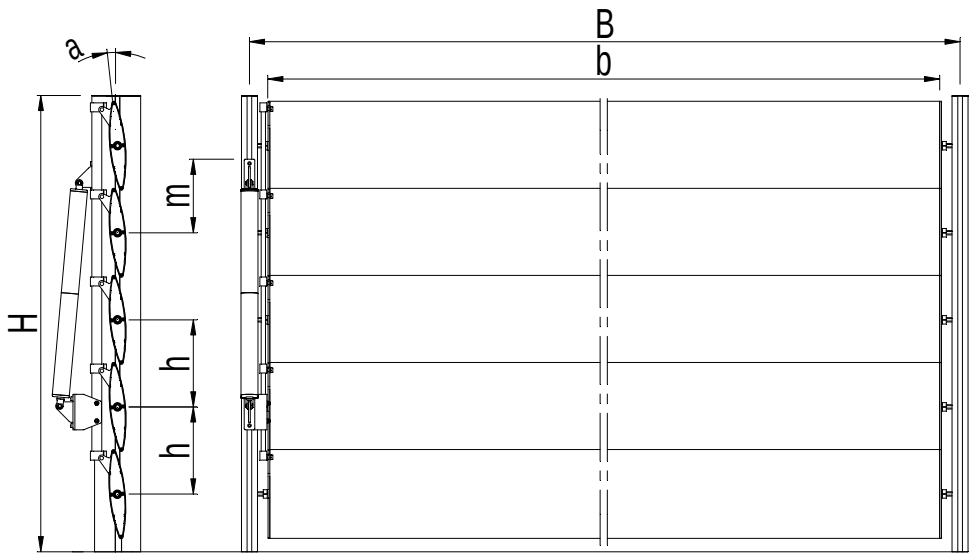
m: 182 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L _m	
038.0120.XX			2	H - 5	56.C...
		(n - 1) x 2		h - 90	
		4		H - 95 - h . (n - 1)	
				2	
038.0100.XX			2	H - 5	56.C...
038.1003.XX			n	B - 111	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6023.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6073.XX		n	56.G...
052.5311.--		2 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...



a: min. 2° (*)
a: max. 132°

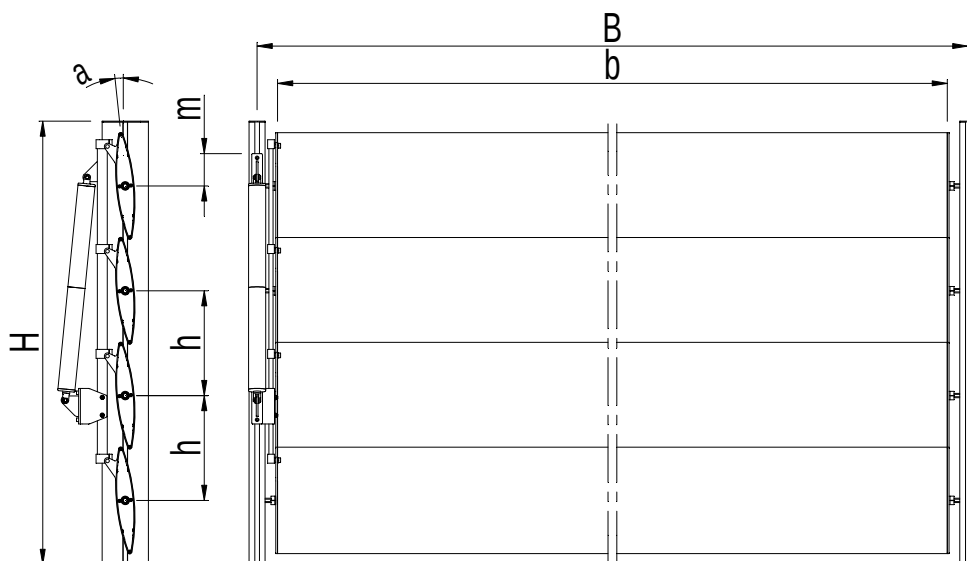
h: 245 mm
m: 207 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1004.XX			n	B - 115	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6024.XX		n	56.G...
052.5311.--		4 * n	56.G...
075.6074.XX		n	56.G...
052.5311.--		4 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...



a: min. 3° (*)
 a: max. 115°

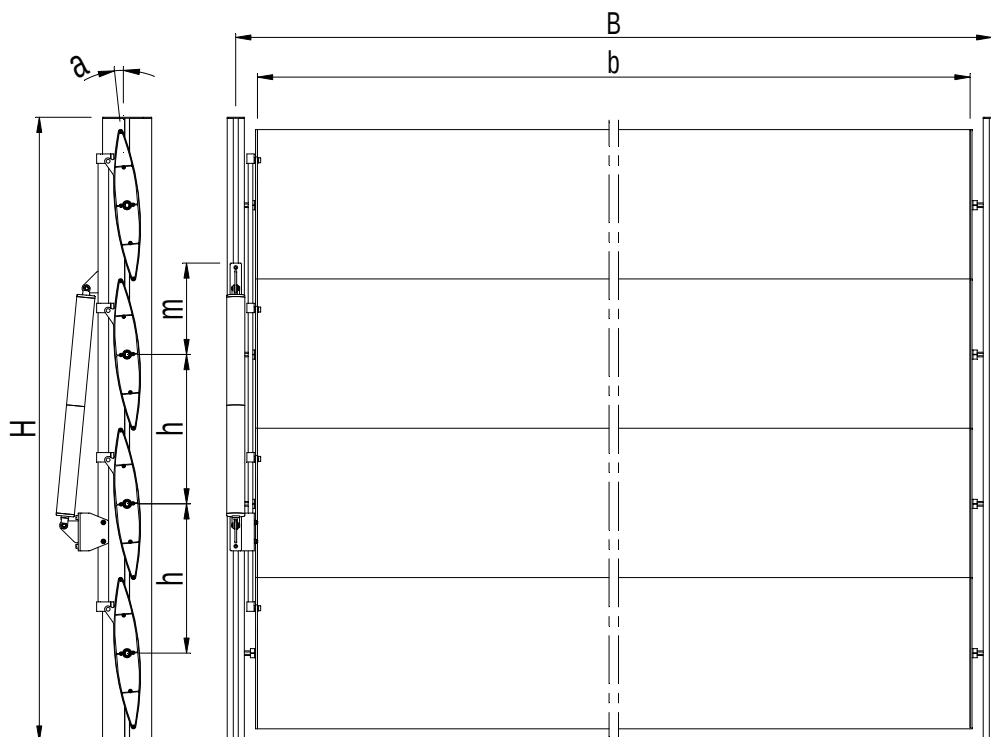
n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

h: 295 mm
 m: 91 mm

(*) : BIJ MINIMUM SLAG VAN MOTOR
 (*) : A COURSE MINIMAL DU MOTEUR
 (*) : AT MINIMUM STROKE OF MOTOR
 (*) : AM MINIMUM SCHLAG MOTOR

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.1005.XX			n	B - 115	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6025.XX		n	56.G...
052.5311.--		4 * n	56.G...
075.6075.XX		n	56.G...
052.5311.--		4 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...



a: min. 2° (*)
a: max. 108°

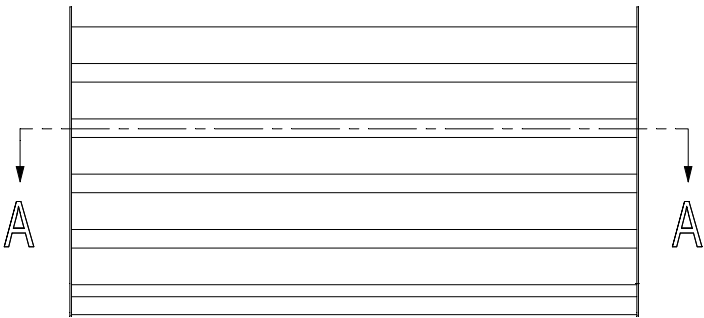
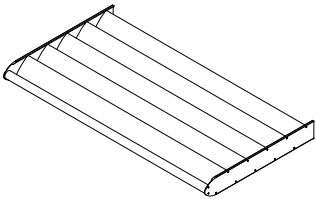
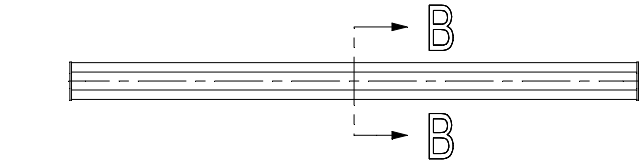
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

h: 395 mm
m: 242 mm

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L_m	
038.0120.XX			2	H - 5	56.C...
			(n - 1) x 2	h - 90	
			4	$H - 95 - h \cdot (n - 1)$	
038.0100.XX			2	H - 5	56.C...
038.1006.XX			2	B - 115	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

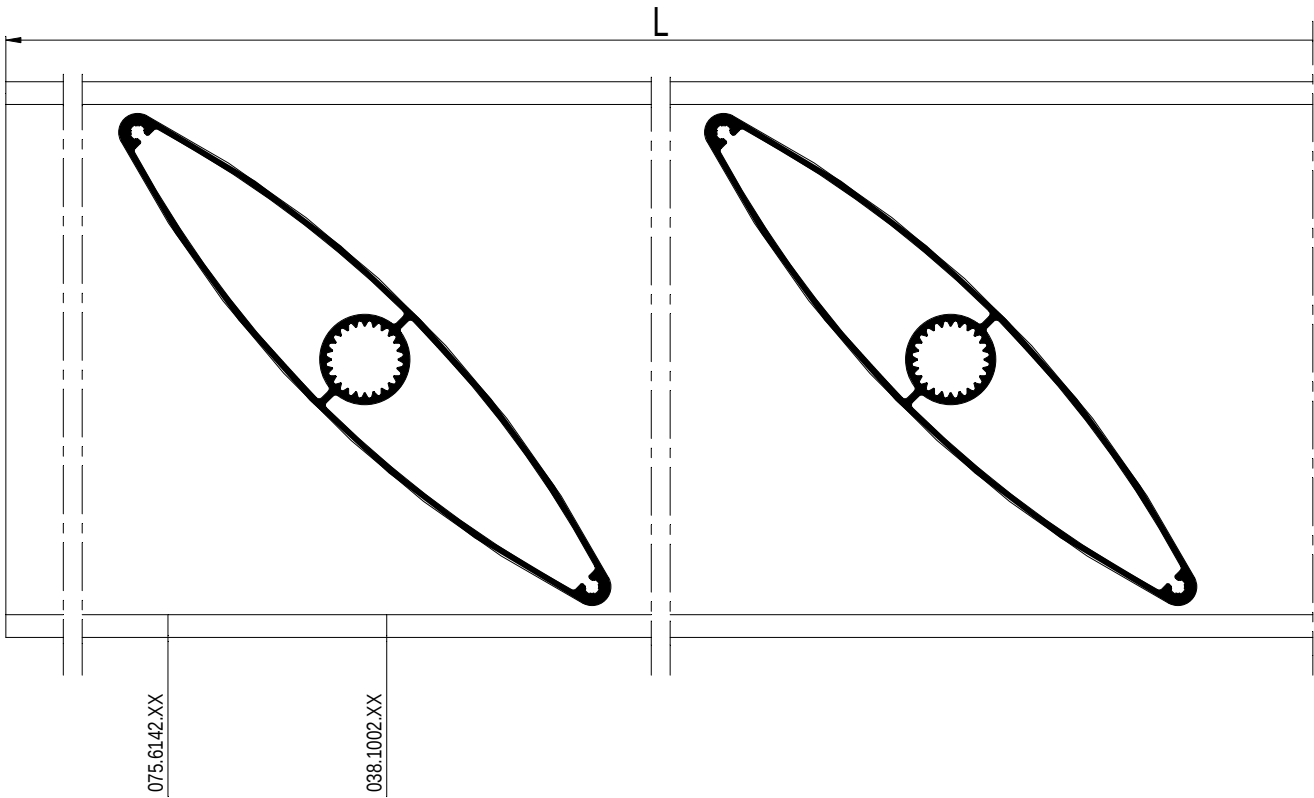
		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6026.XX		n	56.G...
052.5311.--		6 * n	56.G...
075.6076.XX		n	56.G...
052.5311.--		6 * n	56.G...
075.6258.--		2 * n	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...



			#		
038.1002.XX			5	B - 9	56.C...
038.0130.XX			1	B - 9	56.C...

		#	
075.6142.XX		1	56.G...
052.5313.--		24	56.G...

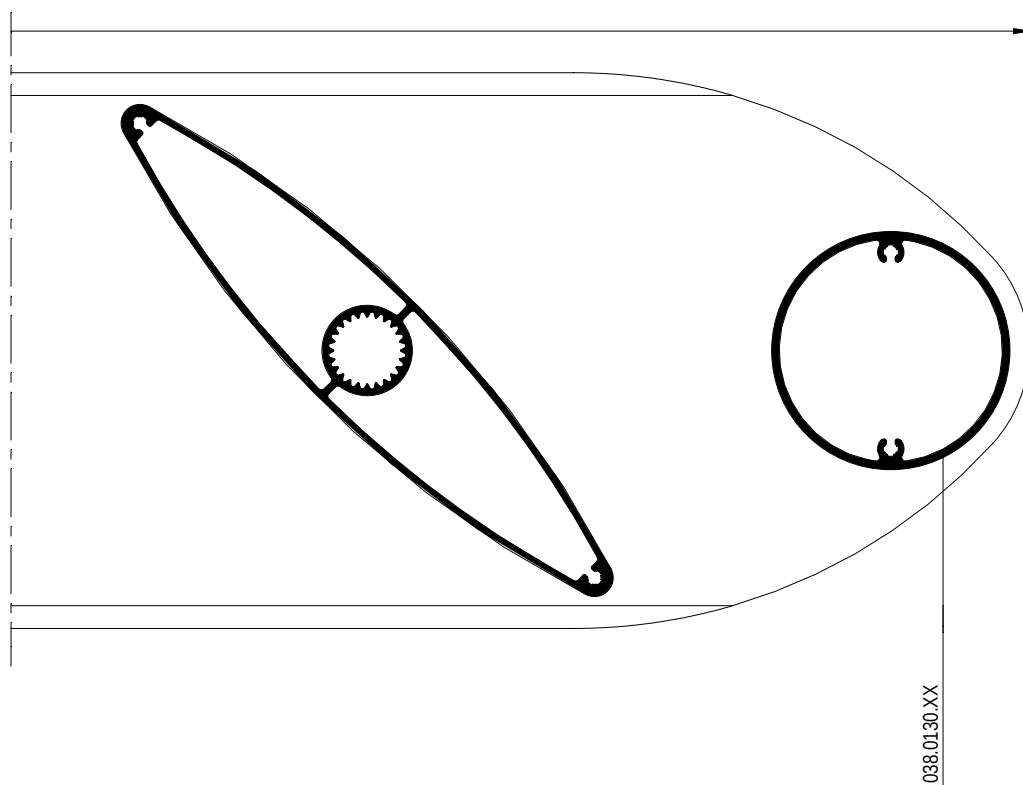
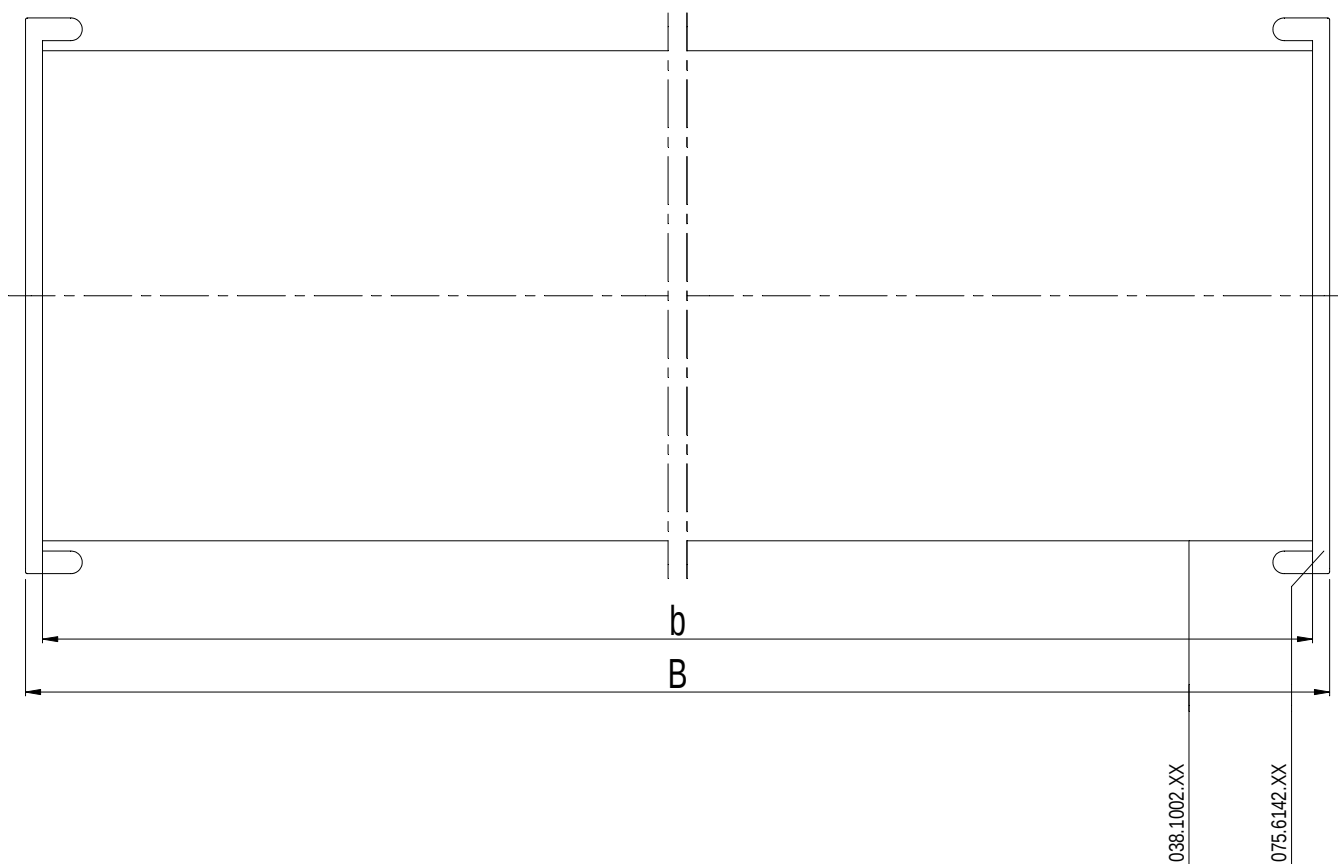
B - B

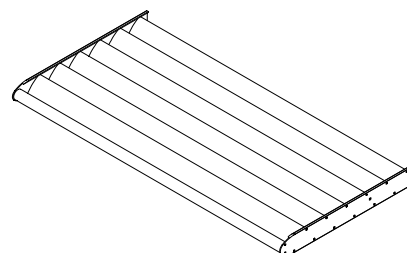
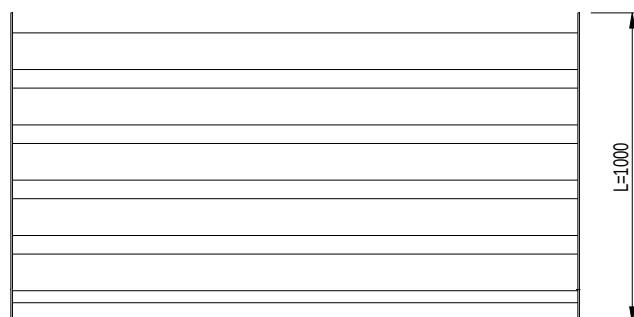
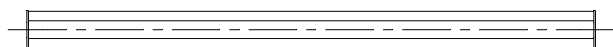


Lamellenhelling
 Pente des lames
 Lamella slope
 Lamellenneigung

45°

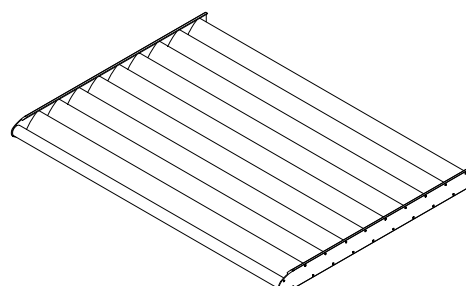
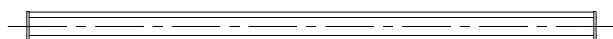
A - A





			#		
038.1001.XX			6	B - 9	56.C...
038.0130.XX			1	B - 9	56.C...

		#	
075.6140.XX		1	56.G...
052.5313.--		28	56.G...

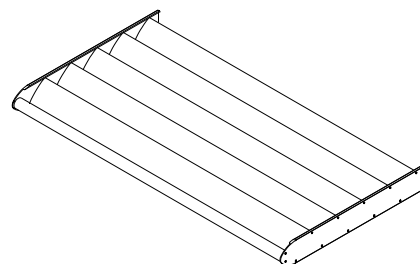
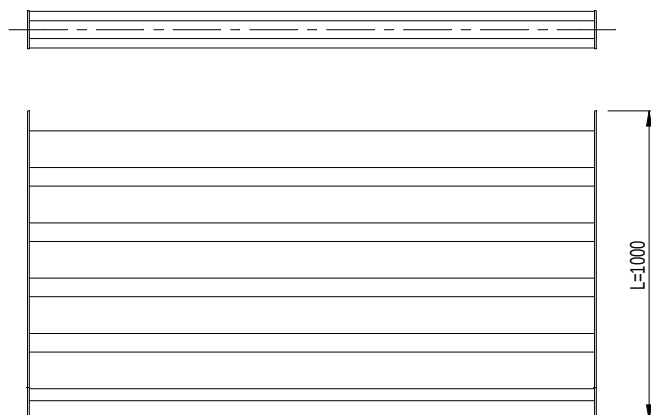


			#		
038.1001.XX			9	B - 9	56.C...
038.0130.XX			1	B - 9	56.C...

		#	
075.6141.XX		1	56.G...
052.5313.--		40	56.G...

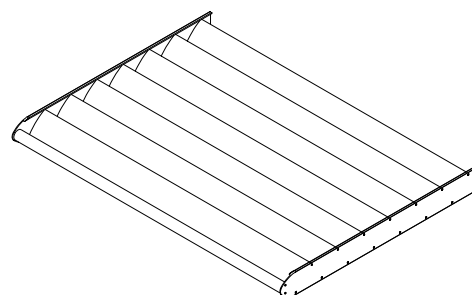
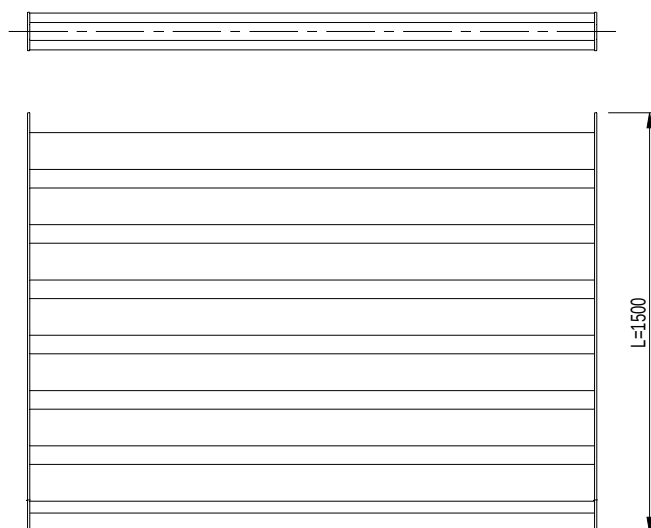
Lamellenhelling
Pente des lames
Lamella slope
Lamellenneigung

45°



			#		
038.1002.XX			5	B - 9	56.C...
038.0130.XX			1	B - 9	56.C...

		#	
075.6142.XX		1	56.G...
052.5313.--		24	56.G...



			#		
038.1002.XX			7	B - 9	56.C...
038.0130.XX			1	B - 9	56.C...

		#	
075.6143.XX		1	56.G...
052.5313.--		32	56.G...

Opmerking :

Kracht moet steeds overgedragen worden op dragers.

Remarque :

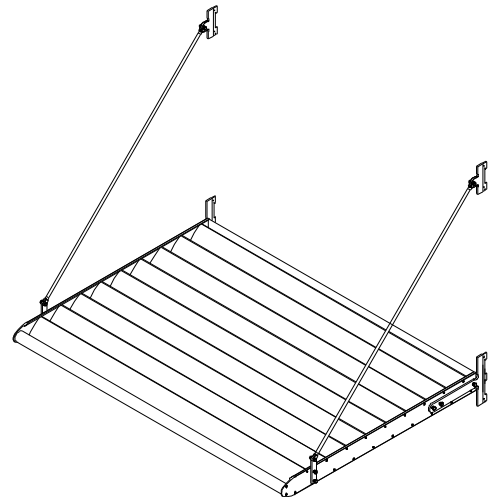
La force doit toujours être transmise au chevron

General :

The force must always be transmitted on the rafter

Anmerkung :

Die Kraft soll immer auf die Dachsparren übertragen werden



Algemene opmerking :

Elke typische situatie en specifiek project dient door een officiële structureel ingenieur berekend/bekrachtigd te worden.

General remark :

Every typical situation and specific project has to be calculated / validated by an official structural engineer.

Remarque générale :

Chaque situation typique et projet spécifique doit être calculé/validé par un ingénieur structurel officiel.

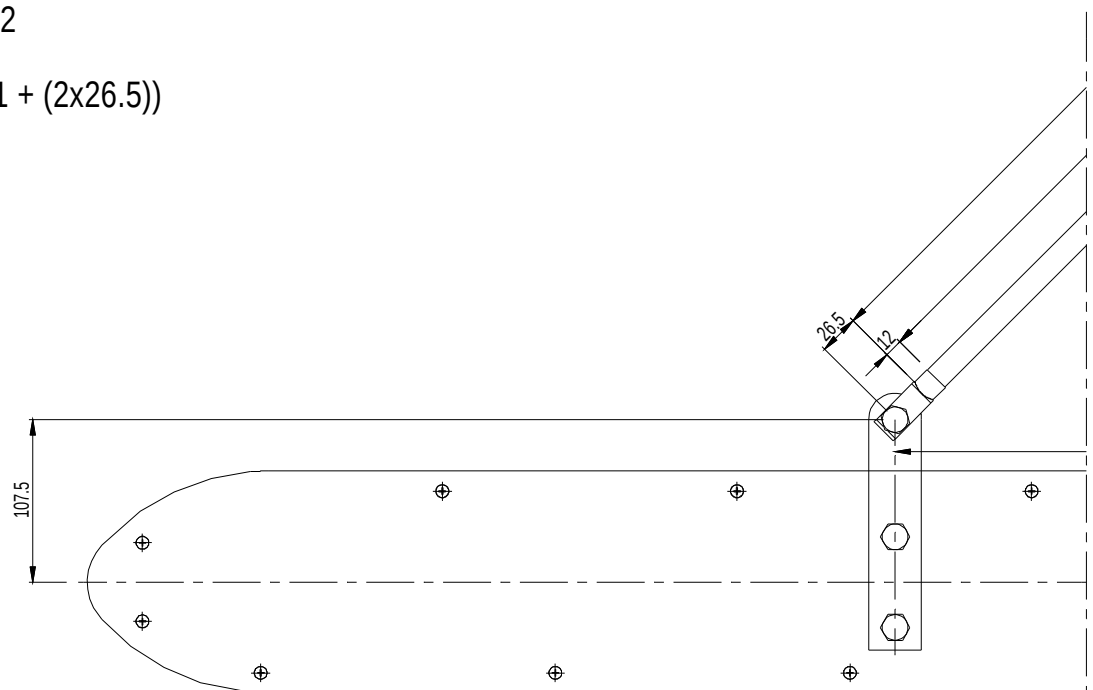
Allgemeine Anmerkung :

Jede typische Situation und spezifisches Projekt soll von einem offiziellen strukturellen Ingenieur berechnet bekräftigt werden.

$$[(H - 107.5) / \sin 45^\circ] - (2 \times 26.5) = L1$$

$$L1 - (2 \times 12) = L2$$

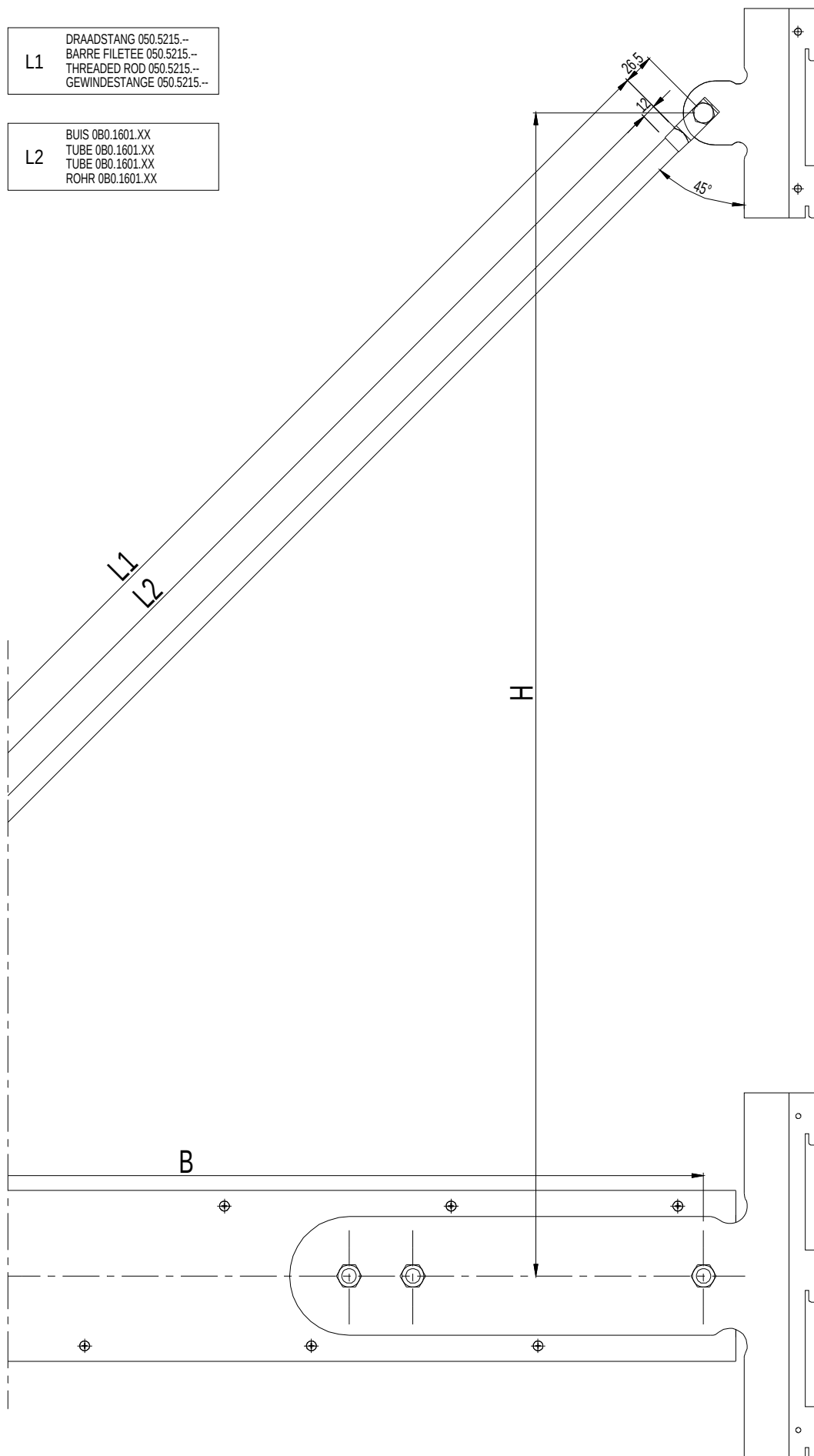
$$B = \sin 45^\circ \times (L1 + (2 \times 26.5))$$



D0062169

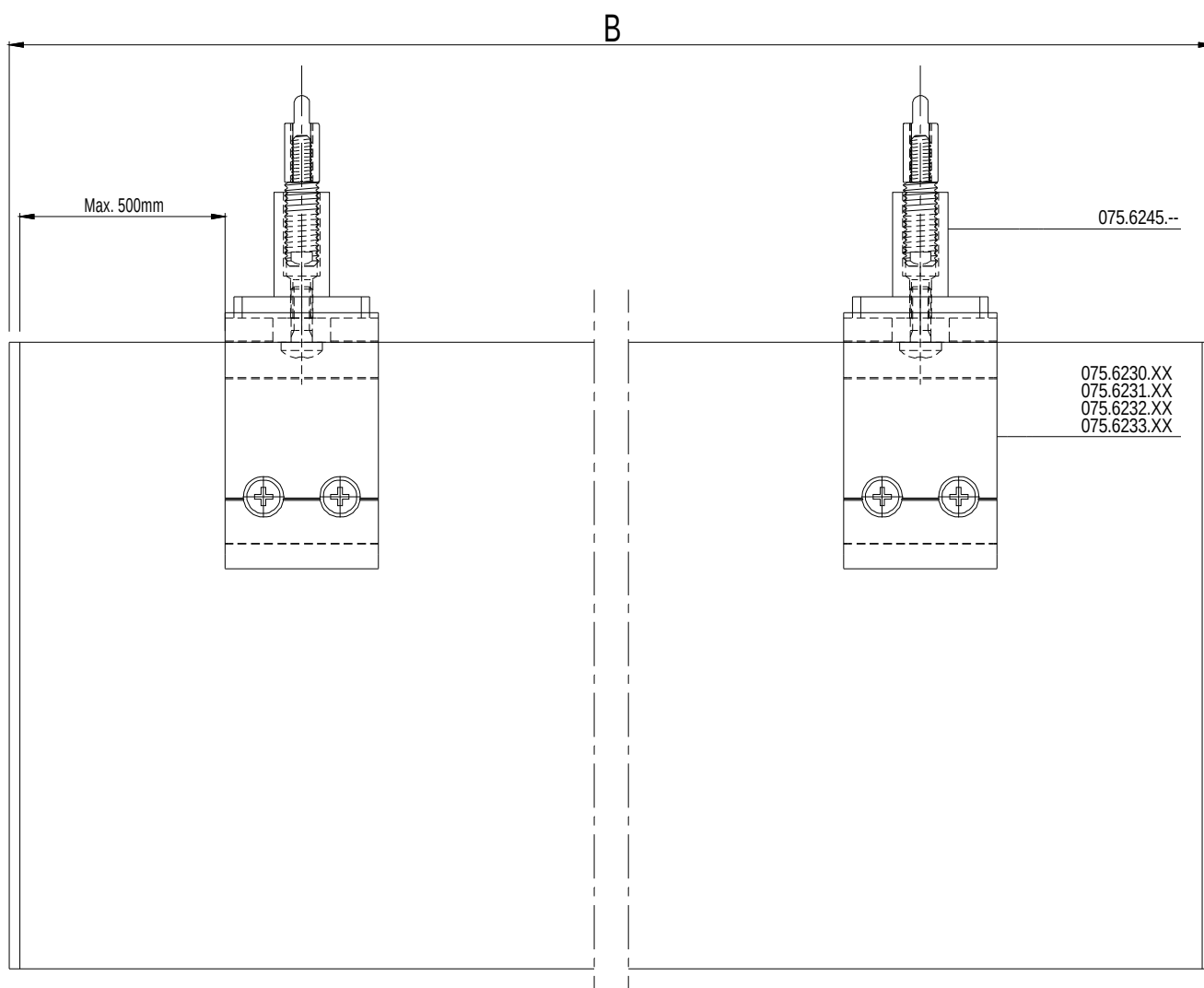
L1 DRAADSTANG 050.5215.--
BARRE FILETEE 050.5215.--
THREADED ROD 050.5215.--
GEWINDESTANGE 050.5215.--

L2 BUIS 0B0.1601.XX
TUBE 0B0.1601.XX
TUBE 0B0.1601.XX
ROHR 0B0.1601.XX



n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE



			#		
038.1003.XX			n	B - 6	56.C...

		#	
075.6023.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6245.--		2 *	56.G...
075.6230.XX		2 *	56.G...
of - ou - or - oder			
075.6231.XX		2 *	56.G...
of - ou - or - oder			
075.6232.XX		2 *	56.G...
of - ou - or - oder			
075.6233.XX		2 *	56.G...

			#		
038.1004.XX			n	B - 10	56.C...

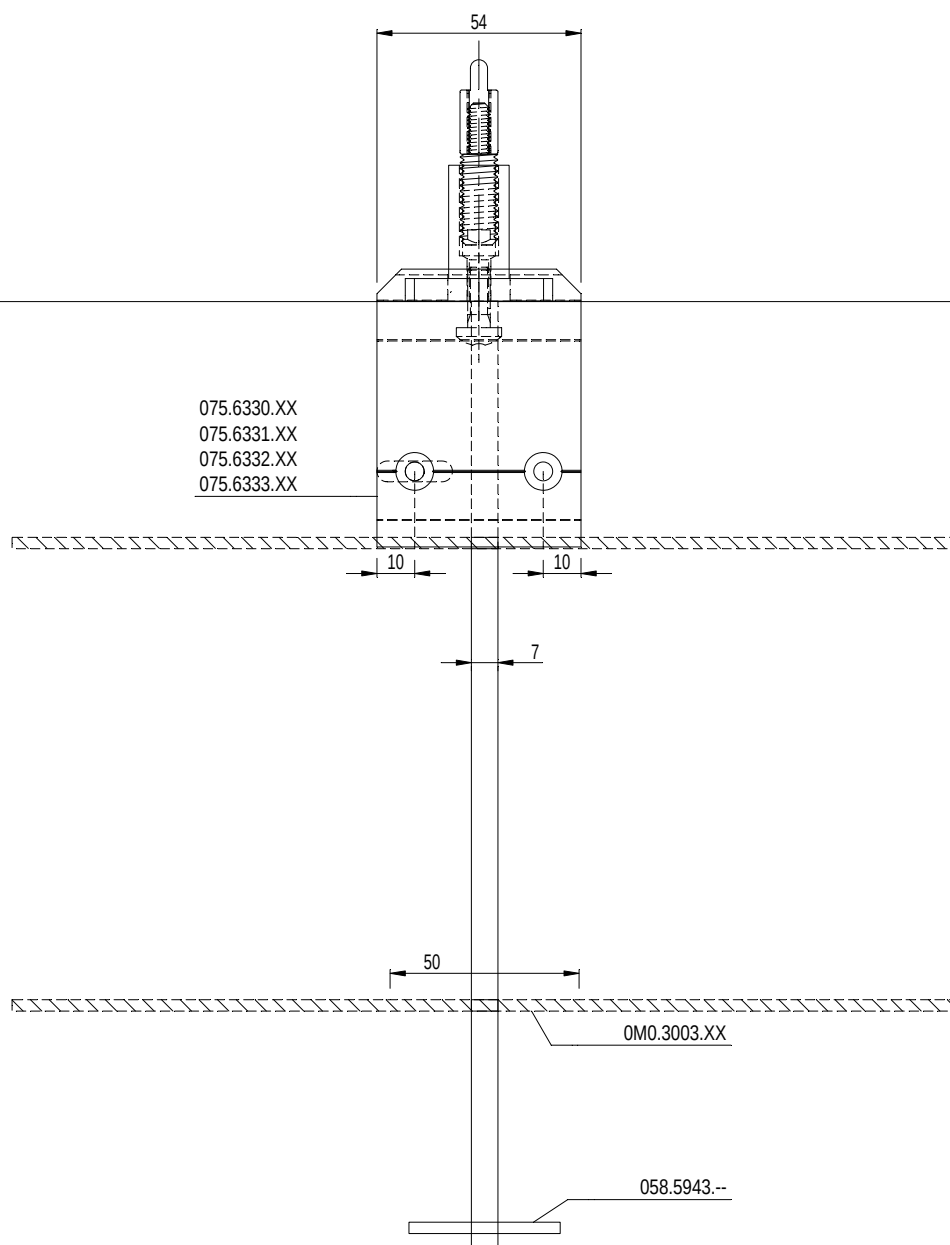
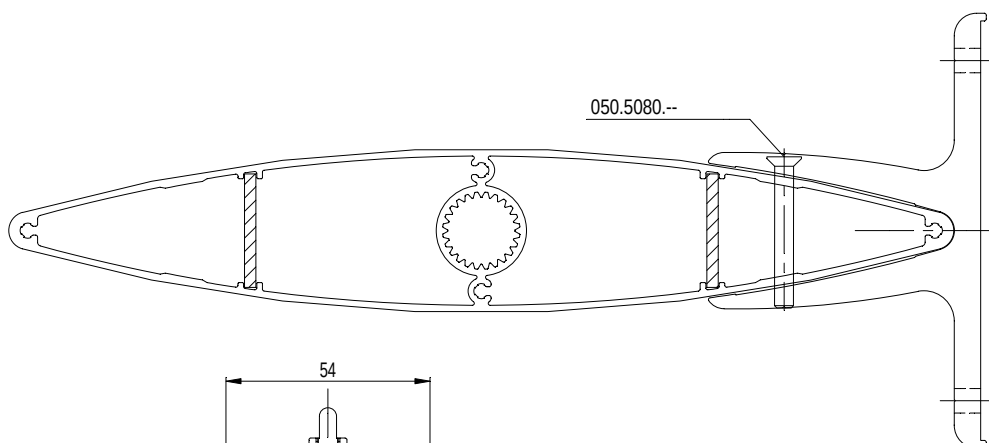
		#	
075.6024.XX		2 *	56.G...
052.5311.--		8 *	56.G...
075.6245.--		2 *	56.G...
075.6230.XX		2 *	56.G...
of - ou - or - oder			
075.6231.XX		2 *	56.G...
of - ou - or - oder			
075.6232.XX		2 *	56.G...
of - ou - or - oder			
075.6233.XX		2 *	56.G...

			#		
038.1005.XX			n	B - 10	56.C...

		#	
075.6025.XX		2 *	56.G...
052.5311.--		8 *	56.G...
075.6245.--		2 *	56.G...
075.6230.XX		2 *	56.G...
of - ou - or - oder			
075.6231.XX		2 *	56.G...
of - ou - or - oder			
075.6232.XX		2 *	56.G...
of - ou - or - oder			
075.6233.XX		2 *	56.G...

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER DILATATIE
* PAR DILATATION
* PER DILATATION
* PER AUSDEHNUNG



			#		
038.1003.XX			n	B - 6	56.C...

		#	
075.6023.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6245.--		2 *	56.G...
075.6330.XX		1 *	56.G...
of - ou - or - oder			
075.6331.XX		1 *	56.G...
of - ou - or - oder			
075.6332.XX		1 *	56.G...
of - ou - or - oder			
075.6333.XX		1 *	56.G...

			#		
038.1004.XX			n	B - 10	56.C...

		#	
075.6024.XX		2 *	56.G...
052.5311.--		8 *	56.G...
075.6245.--		2 *	56.G...
075.6330.XX		1 *	56.G...
of - ou - or - oder			
075.6331.XX		1 *	56.G...
of - ou - or - oder			
075.6332.XX		1 *	56.G...
of - ou - or - oder			
075.6333.XX		1 *	56.G...

			#		
038.1005.XX			n	B - 10	56.C...

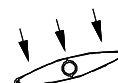
		#	
075.6025.XX		2 *	56.G...
052.5311.--		8 *	56.G...
075.6245.--		2 *	56.G...
075.6330.XX		1 *	56.G...
of - ou - or - oder			
075.6331.XX		1 *	56.G...
of - ou - or - oder			
075.6332.XX		1 *	56.G...
of - ou - or - oder			
075.6333.XX		1 *	56.G...

$$F = \frac{P \times b \times L}{2} \quad (\text{voor } 075.6088\text{--} / \quad 075.6258\text{--})$$

$$F_{\text{max}} = 1200 \text{ N}$$

(*) f_{max} onder eigengewicht = $l/1000$
 (*) f_{max} sous poids propre = $l/1000$
 (*) f_{max} under death load = $l/1000$
 (*) f_{max} unter Eigengewicht = $l/1000$

Neerwaardse belasting - Pressions descendantes - Downward loads - Abwärtse Belastung

Max. overspanning berekend met - la portée max. calculée avec - Max. spans calculated with - Die Max. spanweite wird berechnet mit : $f_{\text{max}} = l/150$ MAX 20mm (*)

		0° 500Pa	15°	30°	45°	0° 1000Pa	15°	30°	45°	0° 1500Pa	15°	30°	45°
	038.1000.XX	2470	2499	2591	2744	2210	2213	2221	2234	1954	1956	1961	1968
	038.1001.XX	2666	2697	2797	2972	2393	2396	2405	2419	2117	2118	2124	2132
	038.1002.XX	3045	3080	3194	3346	2798	2801	2812	2830	2476	2479	2485	2496
	038.1003.XX	3225	3262	3383	3524	3000	3003	3012	3027	2656	2659	2667	2679
	038.1004.XX	3500	3541	3672	3765	3206	3209	3219	3235	2903	2906	2915	2928
	038.1005.XX	3780	3824	3966	4021	3425	3429	3440	3458	3129	3131	3138	3149
	038.1006.XX	4631	4685	4739	4788	4084	4089	4103	4127	3734	3738	3747	3762

Opwaartse belasting - Pressions ascendantes - Upward loads - Aufwärtse Belastung

Max. overspanning berekend met - la portée max. calculée avec - Max. spans calculated with - Die Max. spanweite wird berechnet mit : $f_{\text{max}} = l/150$ MAX 20mm (*)

		0° 500Pa	15°	30°	45°	0° 1000Pa	15°	30°	45°	0° 1500Pa	15°	30°	45°
	038.1000.XX	2470	2499	2591	2773	2395	2392	2381	2364	2062	2060	2054	2044
	038.1001.XX	2666	2697	2797	2993	2597	2593	2581	2562	2235	2232	2226	2216
	038.1002.XX	3045	3080	3194	3418	3042	3038	3026	3009	2626	2623	2615	2602
	038.1003.XX	3225	3262	3383	3620	3214	3210	3197	3178	2824	2821	2812	2797
	038.1004.XX	3500	3541	3672	3929	3441	3436	3422	3401	3068	3065	3057	3045
	038.1005.XX	3780	3824	3966	4243	3686	3681	3666	3642	3285	3282	3273	3260
	038.1006.XX	4631	4685	4859	5198	4433	4426	4405	4372	3943	3939	3928	3909

Neerwaardse belasting - Pressions descendantes - Downward loads - Abwärtse Belastung

Max. overspanning berekend met - la portée max. calculée avec - Max. spans calculated with - Die Max. spanweite wird berechnet mit : $f_{\text{max}} = l/150$ MAX 10mm (*)

		0° 500Pa	15°	30°	45°	0° 1000Pa	15°	30°	45°	0° 1500Pa	15°	30°	45°
	038.1000.XX	2325	2329	2341	2360	2006	2008	2013	2022	1829	1830	1834	1839
	038.1001.XX	2468	2472	2484	2505	2129	2131	2137	2147	1942	1943	1947	1953
	038.1002.XX	2770	2775	2789	2814	2394	2396	2403	2415	2185	2186	2191	2198
	038.1003.XX	2915	2921	2937	2963	2522	2525	2533	2545	2303	2304	2309	2317
	038.1004.XX	3114	3120	3137	3166	2696	2699	2707	2721	2461	2463	2469	2477
	038.1005.XX	3324	3330	3350	3381	2880	2883	2893	2908	2631	2633	2639	2648
	038.1006.XX	3952	3960	3985	4027	3434	3438	3450	3470	3140	3143	3151	3163

Opwaartse belasting - Pressions ascendantes - Upward loads - Aufwärtse Belastung

Max. overspanning berekend met - la portée max. calculée avec - Max. spans calculated with - Die Max. spanweite wird berechnet mit : $f_{\text{max}} = l/150$ MAX 10mm (*)

		0° 500Pa	15°	30°	45°	0° 1000Pa	15°	30°	45°	0° 1500Pa	15°	30°	45°
	038.1000.XX	2470	2528	2602	2571	2131	2128	2121	2110	1904	1903	1899	1892
	038.1001.XX	2666	2728	2765	2732	2264	2261	2253	2241	2023	2021	2017	2010
	038.1002.XX	3045	3116	3133	3091	2558	2555	2545	2530	2283	2281	2276	2267
	038.1003.XX	3225	3300	3315	3269	2703	2699	2689	2672	2411	2409	2403	2393
	038.1004.XX	3500	3582	3552	3501	2893	2889	2878	2860	2580	2578	2571	2561
	038.1005.XX	3780	3850	3812	3755	3100	3095	3082	3062	2762	2760	2753	2741
	038.1006.XX	4631	4660	4607	4527	3728	3722	3704	3677	3316	3313	3303	3287

LAMEL 038.1003.XX
SUPPORT-LAME 038.1003.XX
LOUVRE 038.1003.XX
LAMELLEN 038.1003.XX

$$M = L \times (2.799 \times \cos \alpha + 0.02 \times P)$$

LAMEL HOUDER 0°
SUPPORT-LAME 0°
LOUVRE GRIP 0°
LAMELLEN HALTER 0°

$$M_{\max} = -74000 < M_{\max} < +218500$$

LEGENDE
M = Moment (Nmm)
L = Lengte lamel (mm)
 α = Hoek lamel (0°/15°/30°/45°)
P = Druk

LAMEL 038.1004.XX
SUPPORT-LAME 038.1004.XX
LOUVRE 038.1004.XX
LAMELLEN 038.1004.XX

$$M = L \times (4.474 \times \cos \alpha + 0.031 \times P)$$

LAMEL HOUDER 15°
SUPPORT-LAME 15°
LOUVRE GRIP 15°
LAMELLEN HALTER 15°

$$M_{\max} = -74000 < M_{\max} < +218500$$

LEGENDE
M = Moment (Nmm)
L = length louvre (mm)
 α = corner louvre (0°/15°/30°/45°)
P = Pressure on louvre

LAMEL 038.1005.XX
SUPPORT-LAME 038.1005.XX
LOUVRE 038.1005.XX
LAMELLEN 038.1005.XX

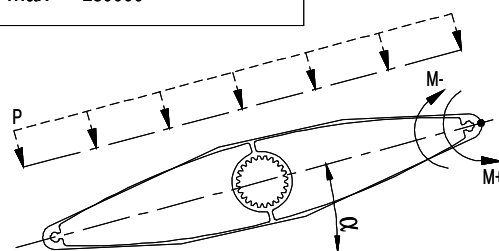
$$M = L \times (6.698 \times \cos \alpha + 0.045 \times P)$$

LAMEL HOUDER 30°
SUPPORT-LAME 30°
LOUVRE GRIP 30°
LAMELLEN HALTER 30°

$$M_{\max} = -74000 < M_{\max} < +218500$$

LEGENDE
M = Moment (Nmm)
L = longueur lame (mm)
 α = équerre lame (0°/15°/30°/45°)
P = Pression sur lame

LEGENDE
M = Moment (Nmm)
L = Länge lamelle (mm)
 α = Ecke lamelle (0°/15°/30°/45°)
P = Druck



BEREKENINGSVOORBEELD EXEMPLE DE CALCUL CALCULATION EXAMPLE BERECHNUNGSBEISPIEL

LAMEL 038.1003.XX
SUPPORT-LAME 038.1003.XX
LOUVRE 038.1003.XX
LAMELLEN 038.1003.XX

L= 2500 mm tussen elke lamelhouder (doorlopend)
L= 2500 mm entre chaque support-lame (continue)
L= 2500 mm between every louvre grip (continued)
L= 2500 mm zwischen jede lamellen halter (durchlaufend)

P= Druk 1500Pa (langs boven)
P= Pression 1500Pa (de l'haut)
P= Pressure 1500Pa (from above)
P= Druch 1500Pa (Von Oben)

$$M = L \times (2.799 \times \cos \alpha + 0.020 \times P)$$

$$M = 2500 \times (2.799 \times \cos(30) + 0.020 \times 1500)$$

$$M = +81060$$

$$-74000 < +81060 < +218500$$

LAMEL HOUDER OK
SUPPORT-LAME OK
LOUVRE GRIP OK
LAMELLEN HALTER OK

LAMEL 038.1005.XX
LAME 038.1005.XX
LOUVRE 038.1005.XX
LAMELLEN 038.1005.XX

L= 3000 mm tussen elke lamelhouder (doorlopend)
L= 3000 mm entre chaque support-lame (continue)
L= 3000 mm between every louvre grip (continued)
L= 3000 mm zwischen jede lamellen halter (durchlaufend)

P= Druk 1500Pa (langs onder)
P= Pression 1500Pa (en bas)
P= Pressure 1500Pa (from bottom)
P= Druch 1500Pa (Von Unten)

$$M = L \times (6.698 \times \cos \alpha + 0.045 \times P)$$

$$M = 3000 \times (6.698 \times \cos(45) + 0.045 \times (-1500))$$

$$M = -187509$$

$$-74000 < -187509 < +180000$$

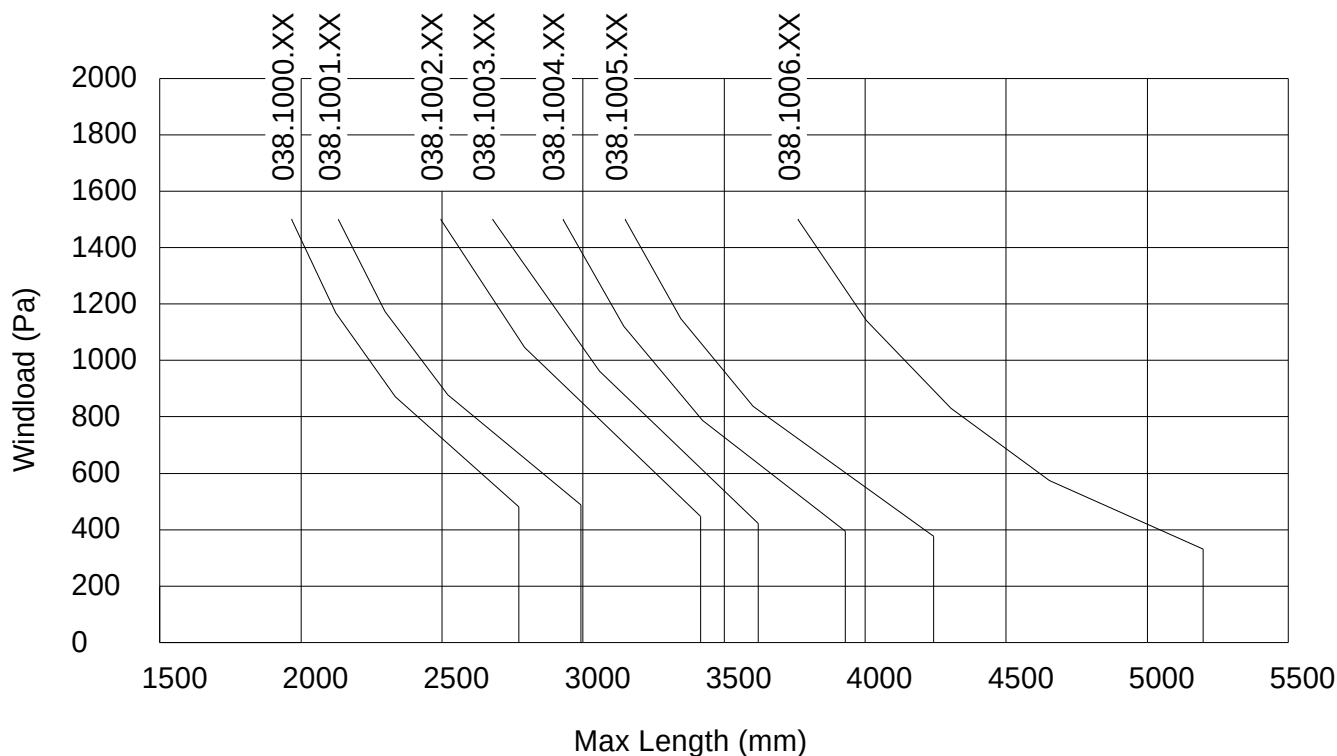
LAMEL HOUDER NIET OK
SUPPORT-LAME NON OK
LOUVRE GRIP NOT OK
LAMELLEN HALTER NICHT OK

Algemene opmerking : Alle Montagebeugels / ophangsystemen werden berekend tot maximale lamel-lengte van 3.00 meter. Beweegbare lamellen fmax.=10mm
Remarque générale : Tous les collants de montage / systèmes de suspension sont protégés jusqu'à la longueur max. de la lame de 3.00m. Lames mobiles fmax.=10mm
General remark : All assembly braces / suspension systems have been designed for a maximum length of 3.00m. Moveable louvres fmax.=10mm
Allgemeine Anmerkung : Die Montagebügel / Aufhängsysteme werden bis die max. lamellenlänge von 3.00m geschützt. Bewegliche lamellen fmax.=10mm

Max Length (Downward load -45°)

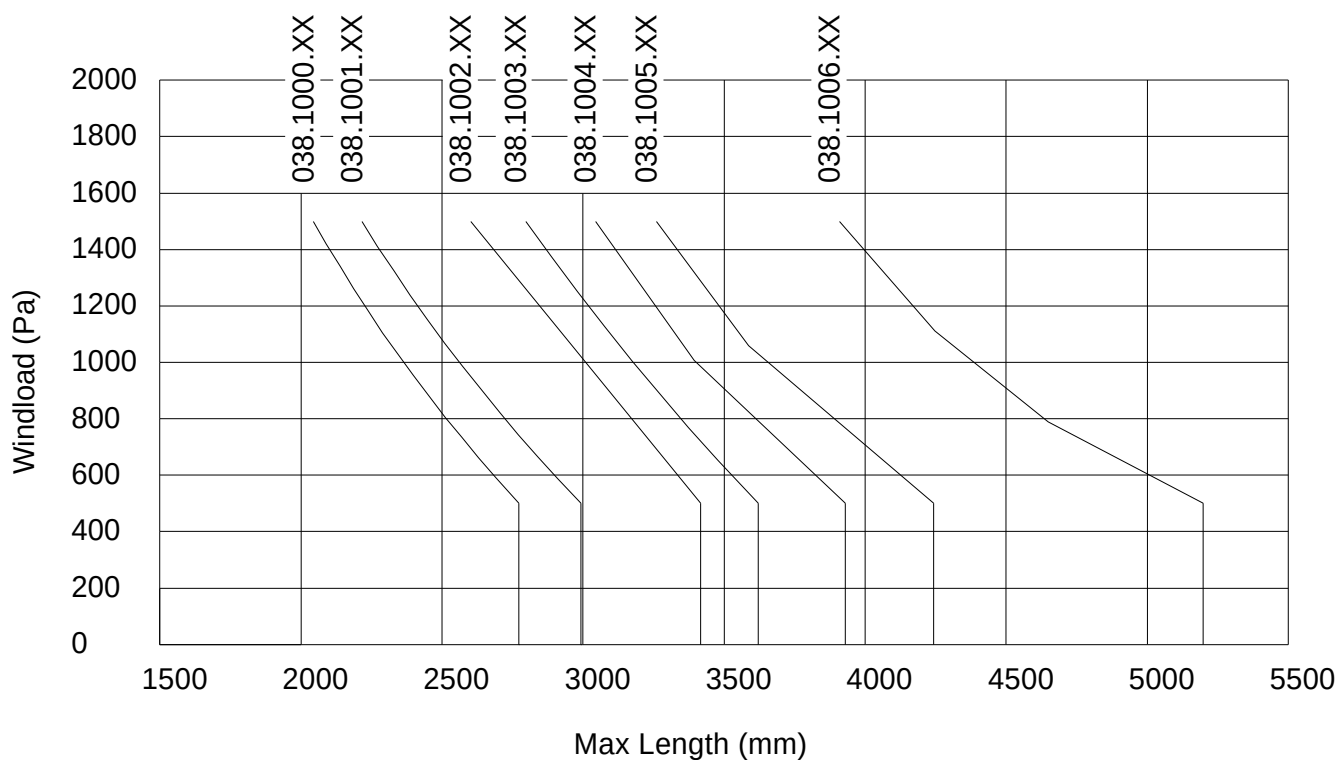
$f_{max} = l/150$ or 20 mm (*)

(*) f_{max} onder eigengewicht = $l/1000$
(*) f_{max} sous poids propre = $l/1000$
(*) f_{max} under death load = $l/1000$
(*) f_{max} unter Eigengewicht = $l/1000$



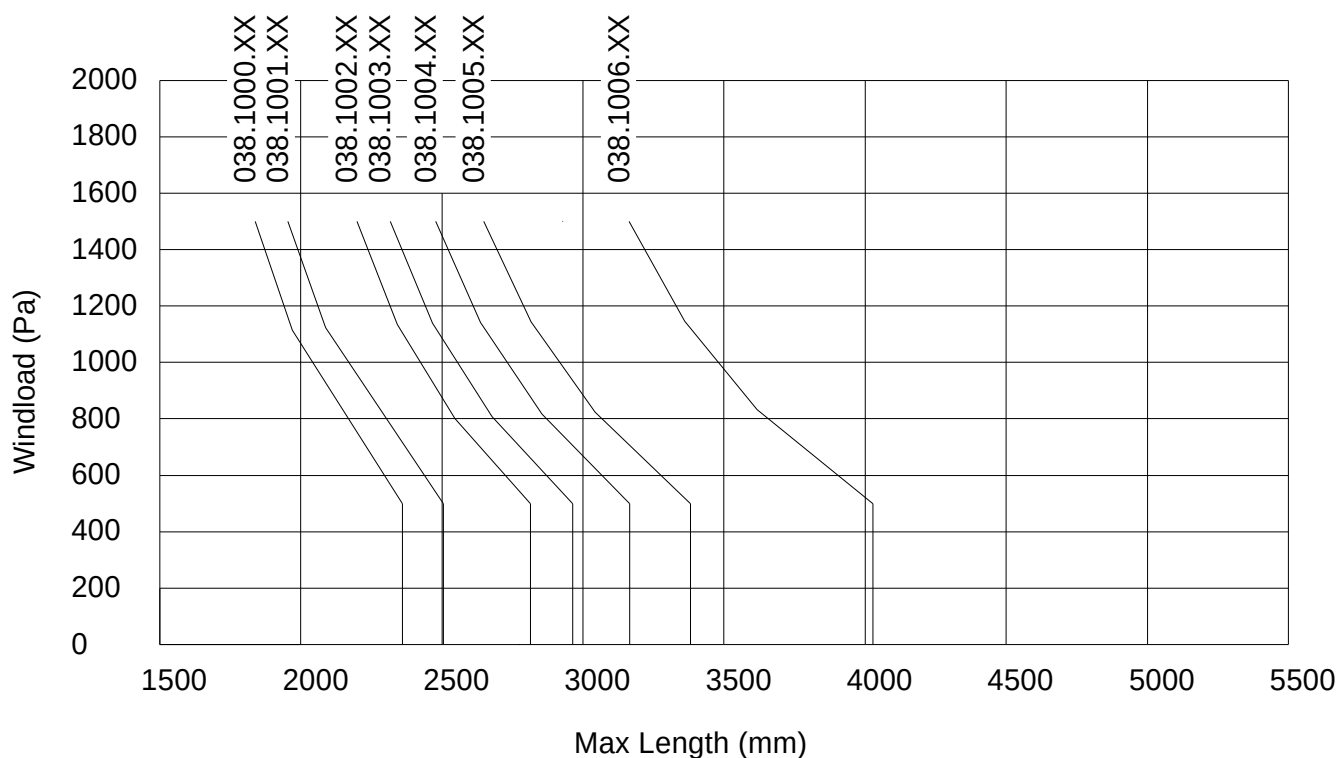
Max Length (Upward load -45°)

$f_{max} = l/150$ or 20 mm (*)



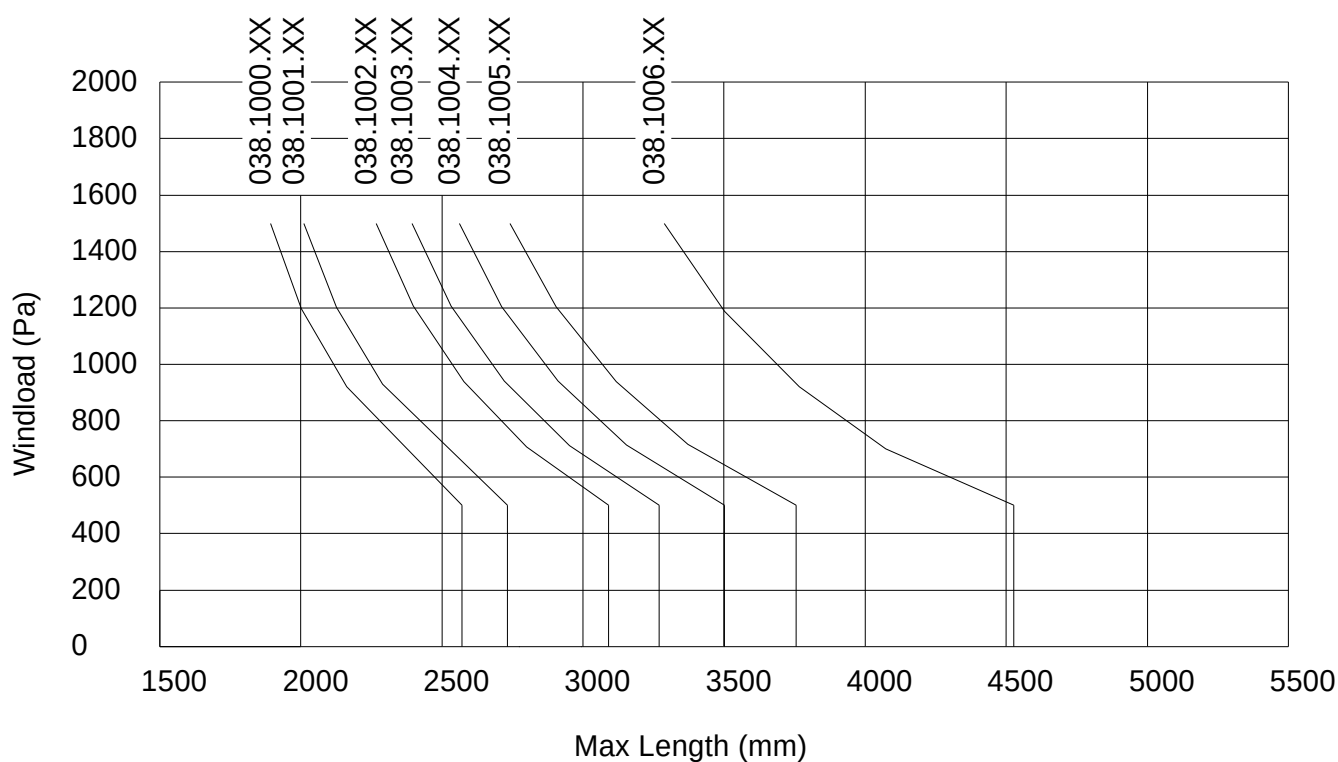
Max Length (Downward load -45°)

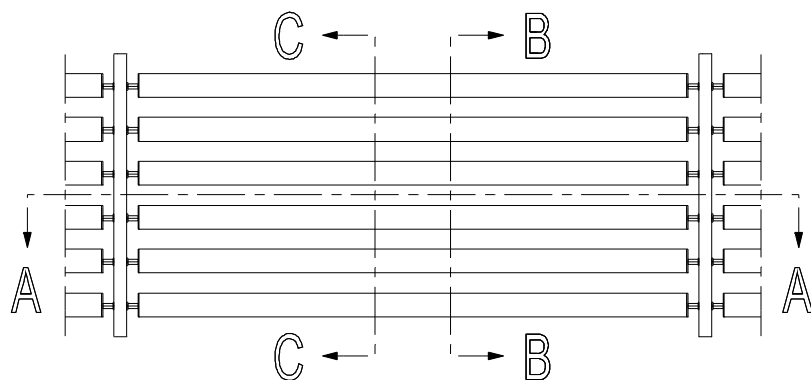
fmax = l/150 or 10 mm (*)



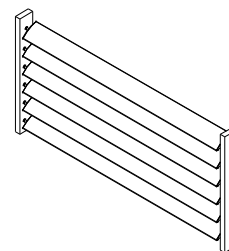
Max Length (Upward load -45°)

fmax = l/150 or 10 mm (*)





BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENSICHT



n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

- * PER LAMEL
- * PAR LAME
- * PER LOUVRE
- * PER LAMELLE

			#		
038.1002.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

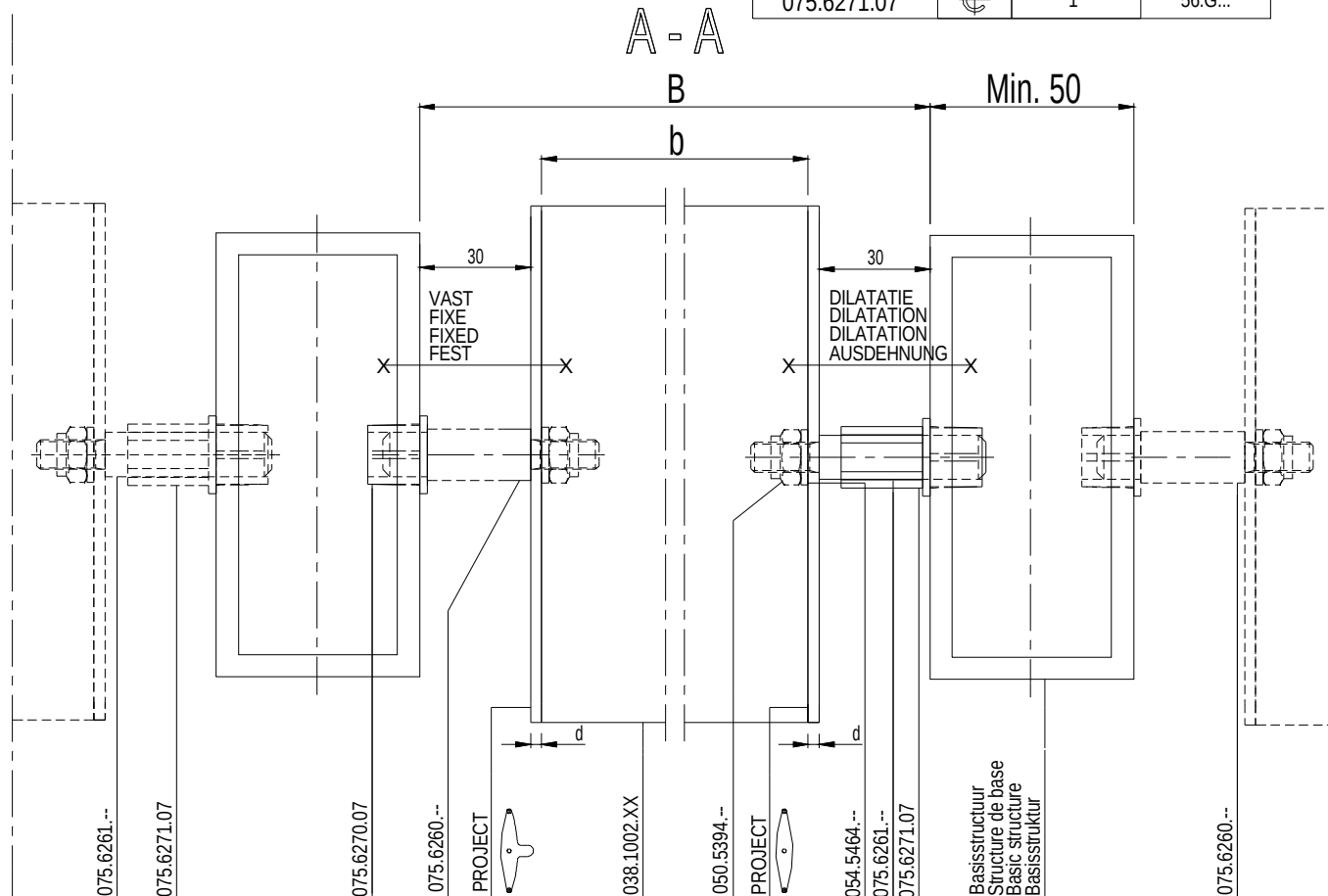
PROJECT = PROJECTAFHANKELIJK ARTIKEL
ARTICLE DEPENDANT DU PROJET
PROJECT DEPENDING ARTICLE
VOM PROJEKTABHÄNGIGER ARTIKEL

		#	
PROJECT		1 *	56.G...
052.5311.--		2 *	
PROJECT		1 *	56.G...
052.5311.--		2 *	
053.5199.--		1 *	56.G...
075.6261.--		1*	56.G...
075.6260.--		1*	56.G...
075.6270.07		2*	56.G...
050.5394.--		2*	56.G...
054.5464.--		2*	56.G...
075.6271.07		1*	56.G...

A - A

B

Min. 50

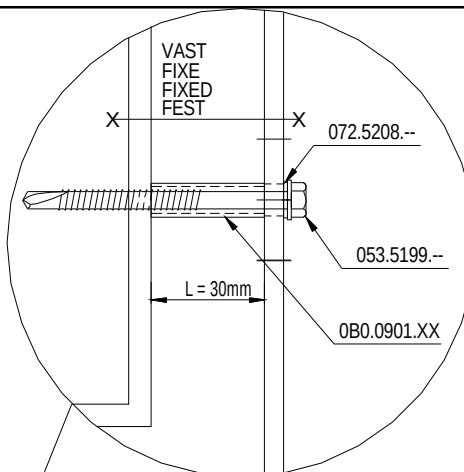


schaal - échelle
scale - Maßstab
1/2

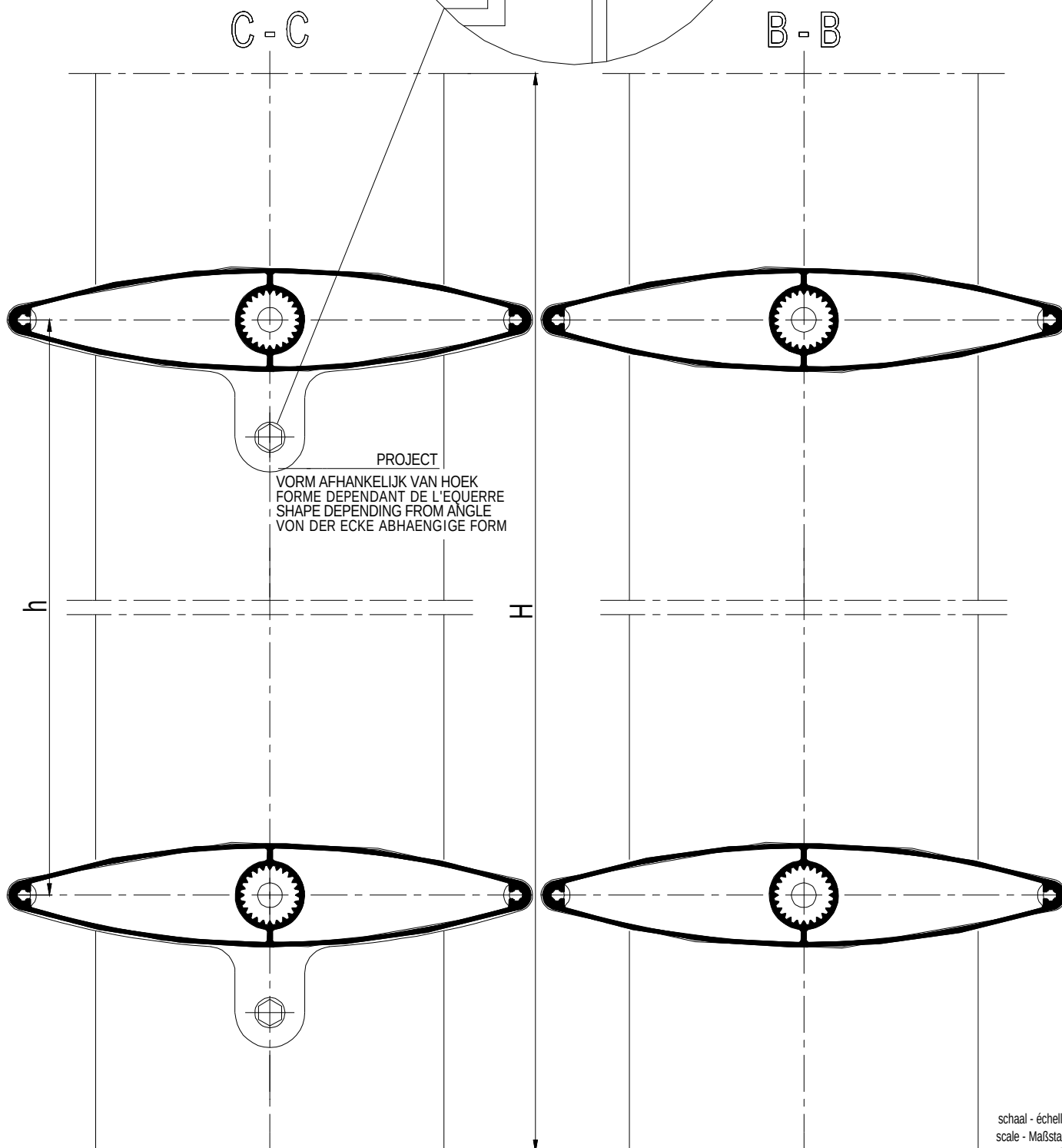
D0062216

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
0° / 15° / 30° / 45° / 60° / 75° / 90°

AFSTAND / BREEDTE / HOEKINCLINATIE LAMEL
DISTANCE / LARGEUR / INCLINAISON D'ANGLE LAME
DISTANCE / WIDTH / ANGLE INCLINATION LOUVRE
ABSTAND / BREITE / WINKELINKLINATION LAMELLE
56.E.008-009

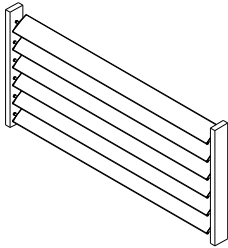
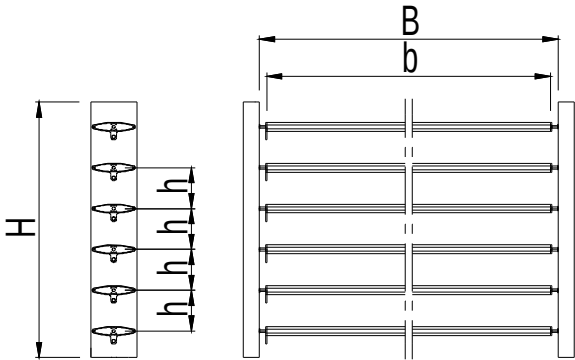


DETAIL BEVESTIGING
DETAIL FIXATION
DETAIL FIXING
DETAIL BEFESTIGUNG



schaal - échelle
scale - Maßstab
1/2

D0062216

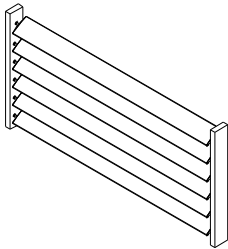
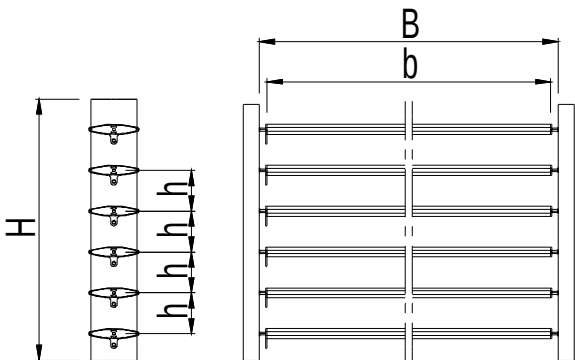


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#		
038.1000.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	

		#	
PROJECT 052.5311.--		1 *	56.G...
		2 *	
PROJECT 052.5311.-- 053.5199.--		1 *	56.G...
		2 *	
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

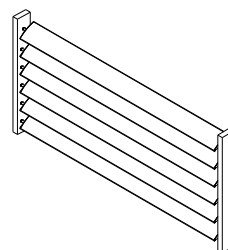
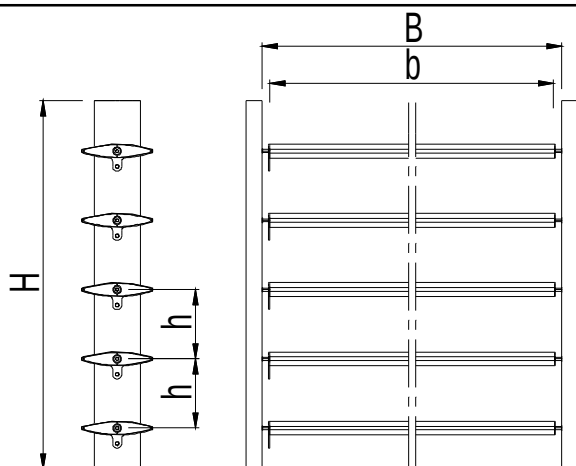


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#		
038.1001.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	

		#	
PROJECT 052.5311.--		1 *	56.G...
		2 *	
PROJECT 052.5311.-- 053.5199.--		1 *	56.G...
		2 *	
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

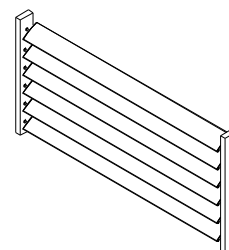
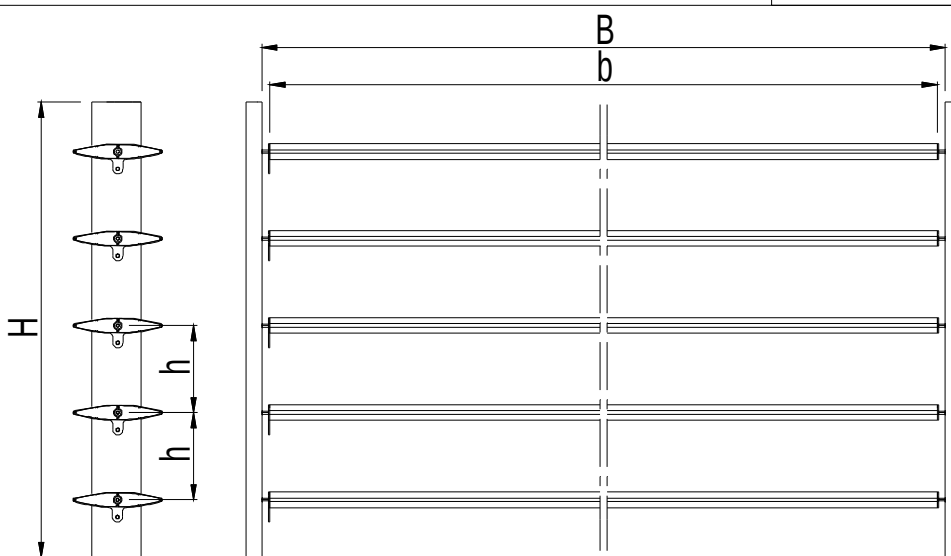


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L_m	
038.1003.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT		1 *	56.G...
052.5311.--		2 *	
PROJECT		1 *	56.G...
052.5311.--		2 *	
053.5199.--		1 *	56.G...
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

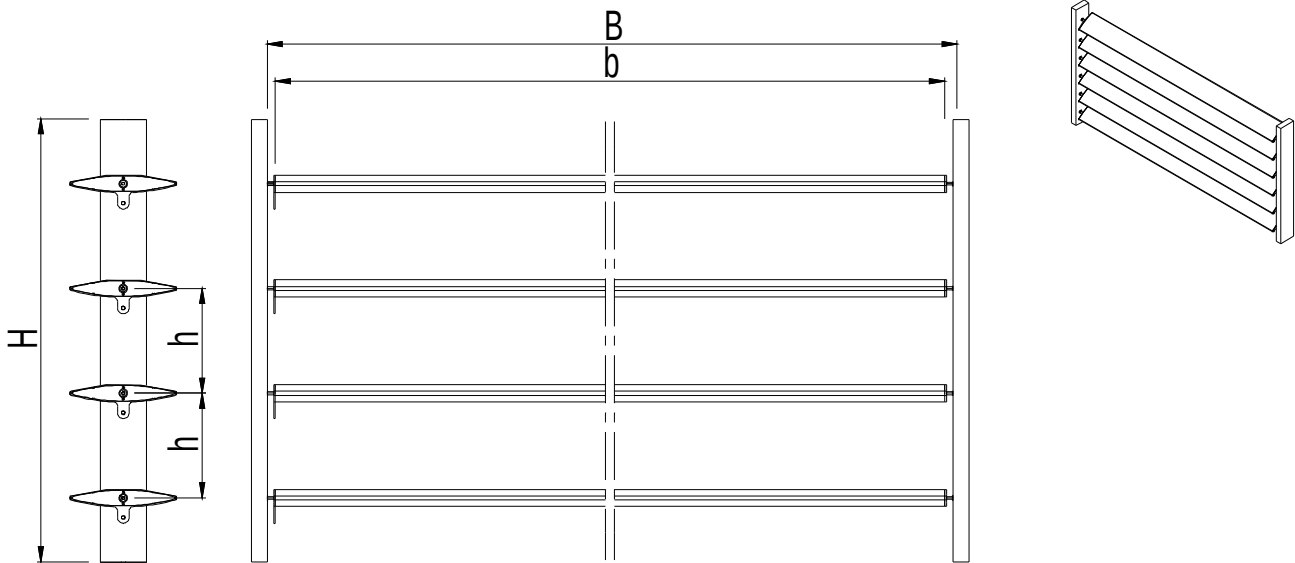


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L_m	
038.1004.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT		1 *	56.G...
052.5311.--		4 *	
PROJECT		1 *	56.G...
052.5311.--		4 *	
053.5199.--		1 *	56.G...
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

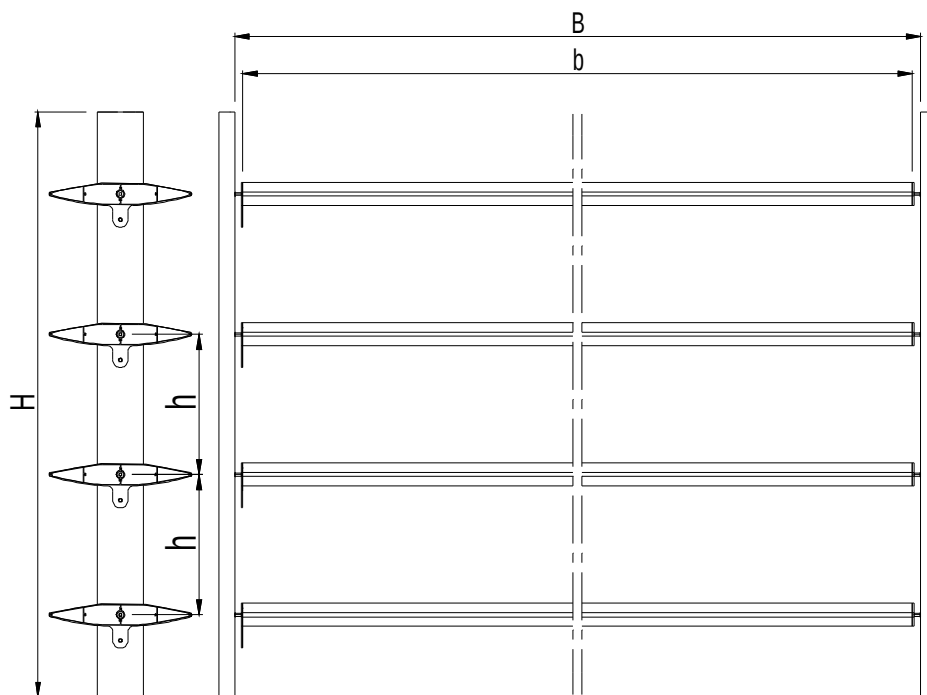


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#		
038.1005.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		4 *	
PROJECT 052.5311.--		1 *	56.G...
053.5199.--		4 *	
		1 *	56.G...
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

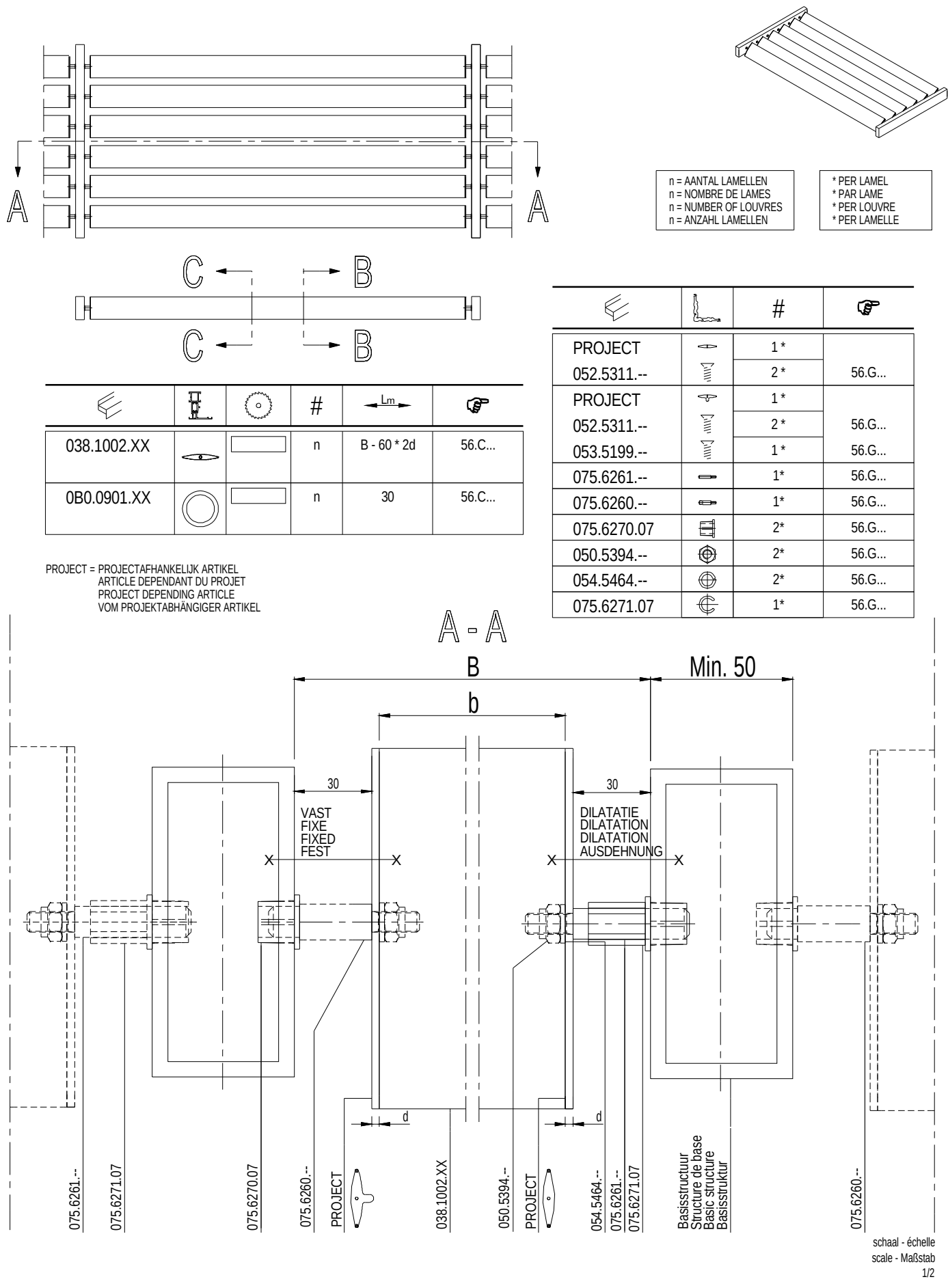


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

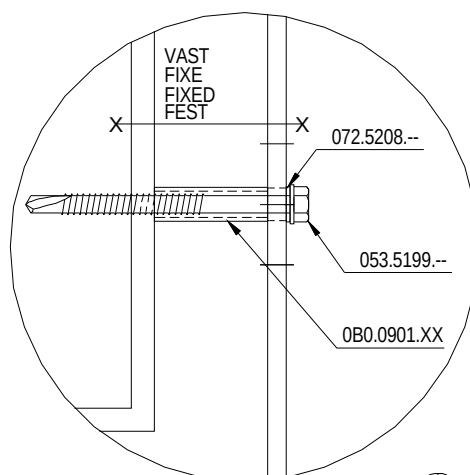
			#	$\leftarrow L_m \rightarrow$	
038.1006.XX			n	$B - 60 * 2d$	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		6 *	
PROJECT 052.5311.--		1 *	56.G...
053.5199.--		6 *	
		1 *	56.G...
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

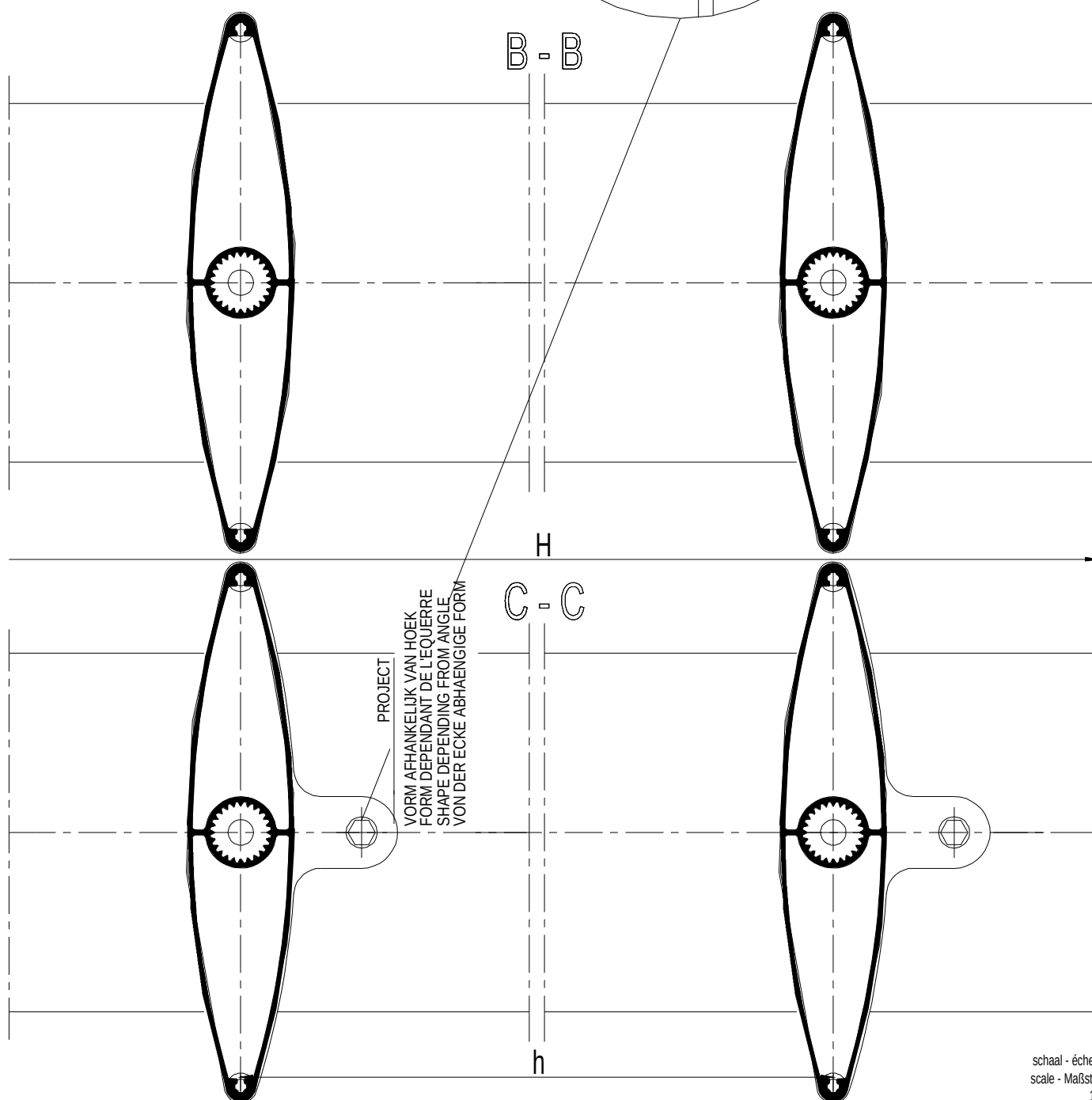


LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
0° / 15° / 30° / 45° / 60° / 75° / 90°

AFSTAND / BREEDTE / HOEKINCLINATIE LAMEL
DISTANCE / LARGEUR / INCLINAISON D'ANGLE LAME
DISTANCE / WIDTH / ANGLE INCLINATION LOUVRE
ABSTAND / BREITE / WINKELINKLINATION LAMELLE
56.E.016-017

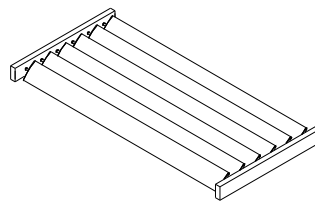
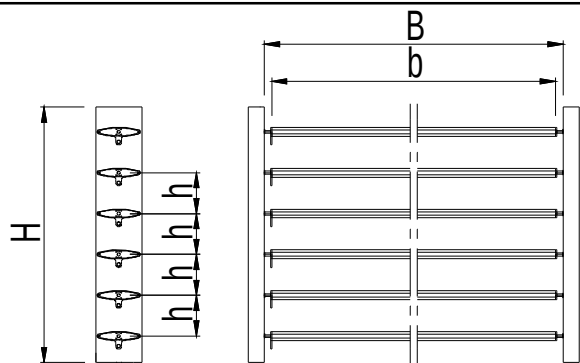


DETAIL BEVESTIGING
DETAIL FIXATION
DETAIL FIXING
DETAIL BEFESTIGUNG



schaal - échelle
scale - Maßstab
1/2

D0062229

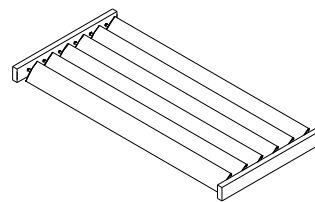
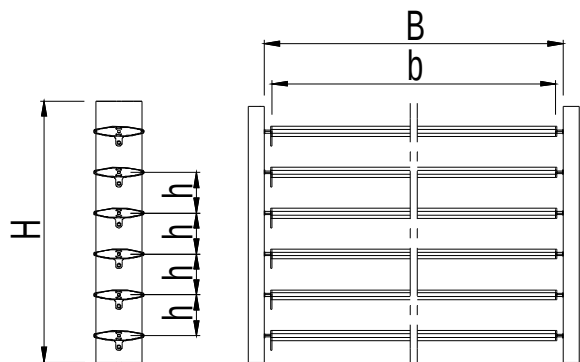


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	$\leftarrow L_m \rightarrow$	
038.1000.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		2 *	
PROJECT 052.5311.-- 053.5199.--		1 *	56.G...
		2 *	
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

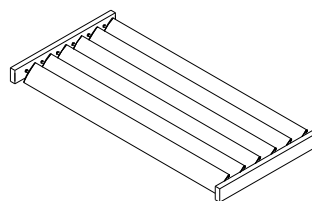
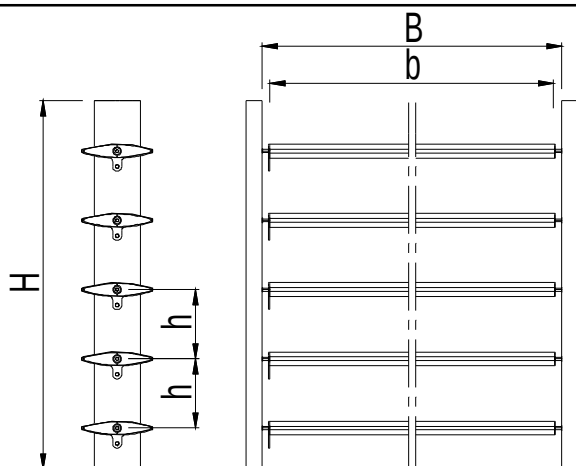


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	$\leftarrow L_m \rightarrow$	
038.1001.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		2 *	
PROJECT 052.5311.-- 053.5199.--		1 *	56.G...
		2 *	
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

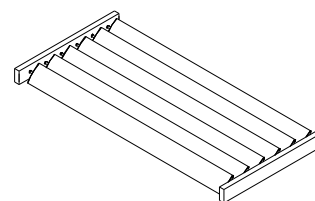
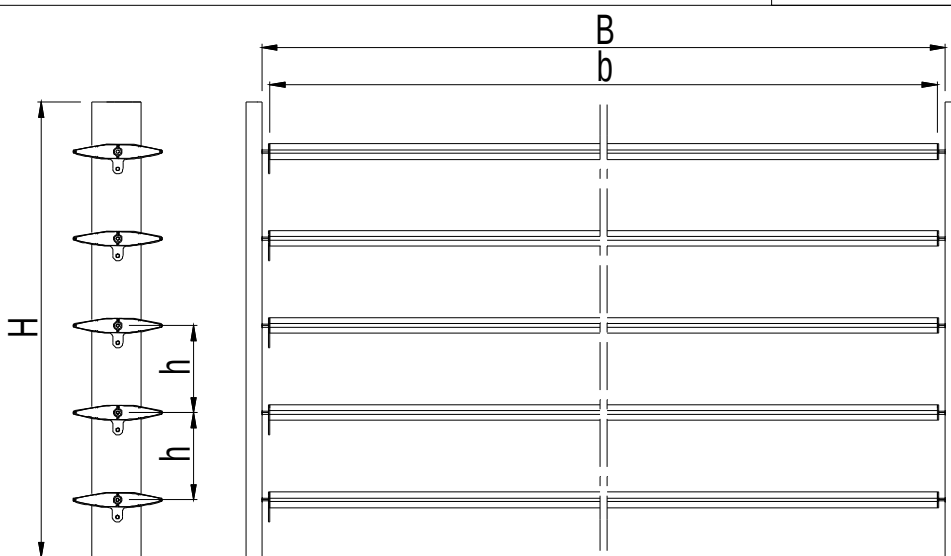


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L _m	
038.1003.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		2 *	
PROJECT 052.5311.--		1 *	56.G...
053.5199.--		2 *	
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

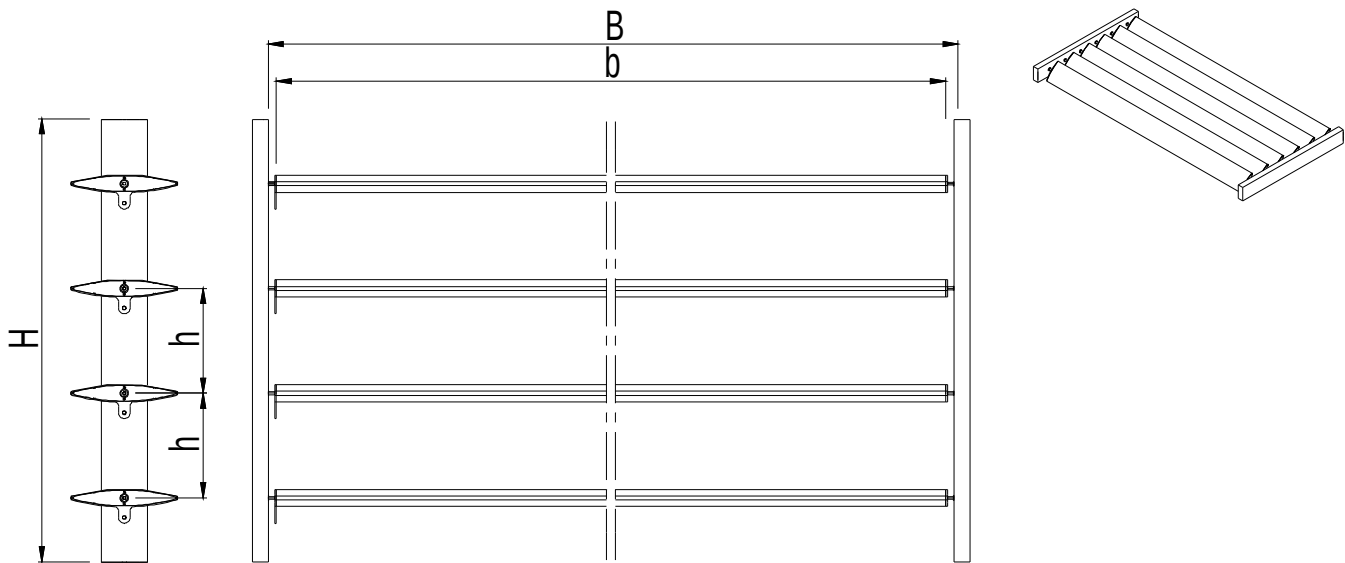


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#	L _m	
038.1004.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		4 *	
PROJECT 052.5311.--		1 *	56.G...
053.5199.--		4 *	
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

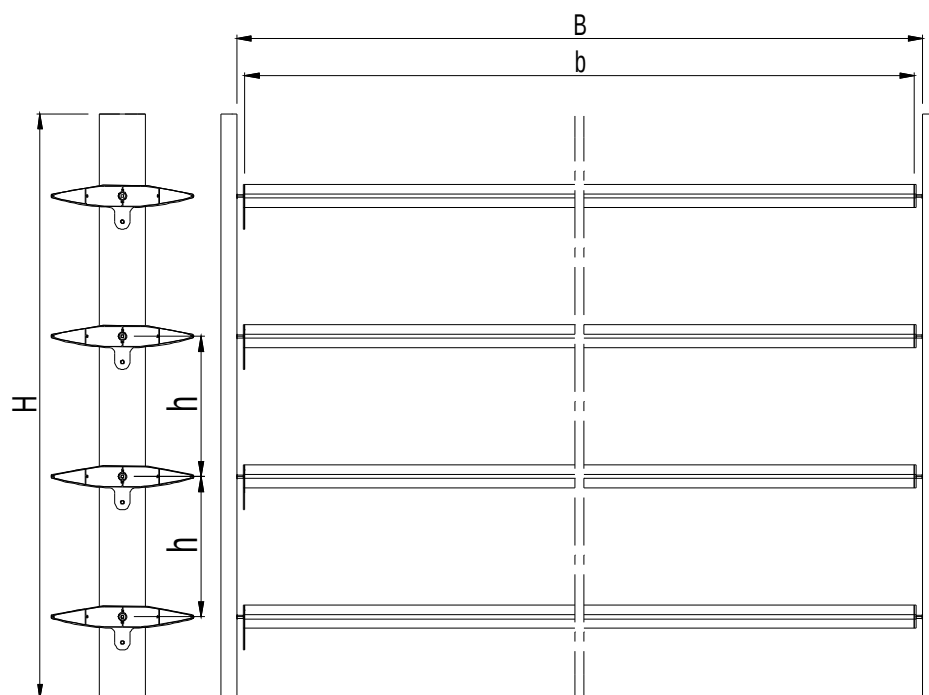


n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

			#		
038.1005.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...

		#	
PROJECT 052.5311.--		1 *	56.G...
		4 *	
PROJECT 052.5311.--		1 *	56.G...
		4 *	
053.5199.--		1 *	56.G...
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

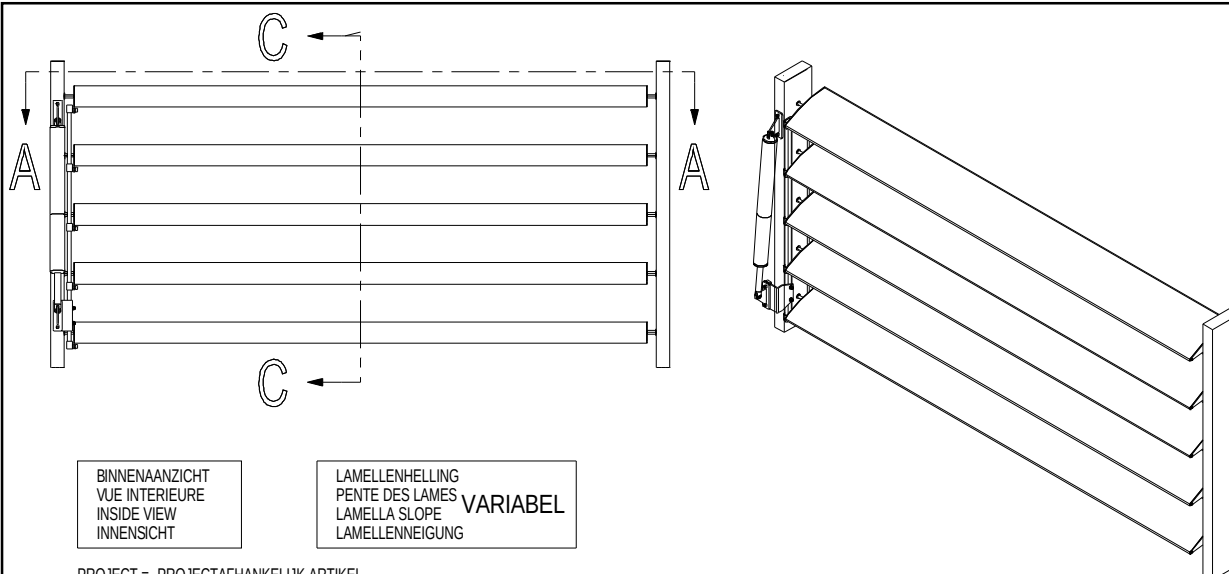


n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

* PER LAMEL
 * PAR LAME
 * PER LOUVRE
 * PER LAMELLE

			#	$\leftarrow L_m \rightarrow$	
038.1006.XX			n	$B - 60 * 2d$	56.C...
0B0.0901.XX			n	30	56.C...

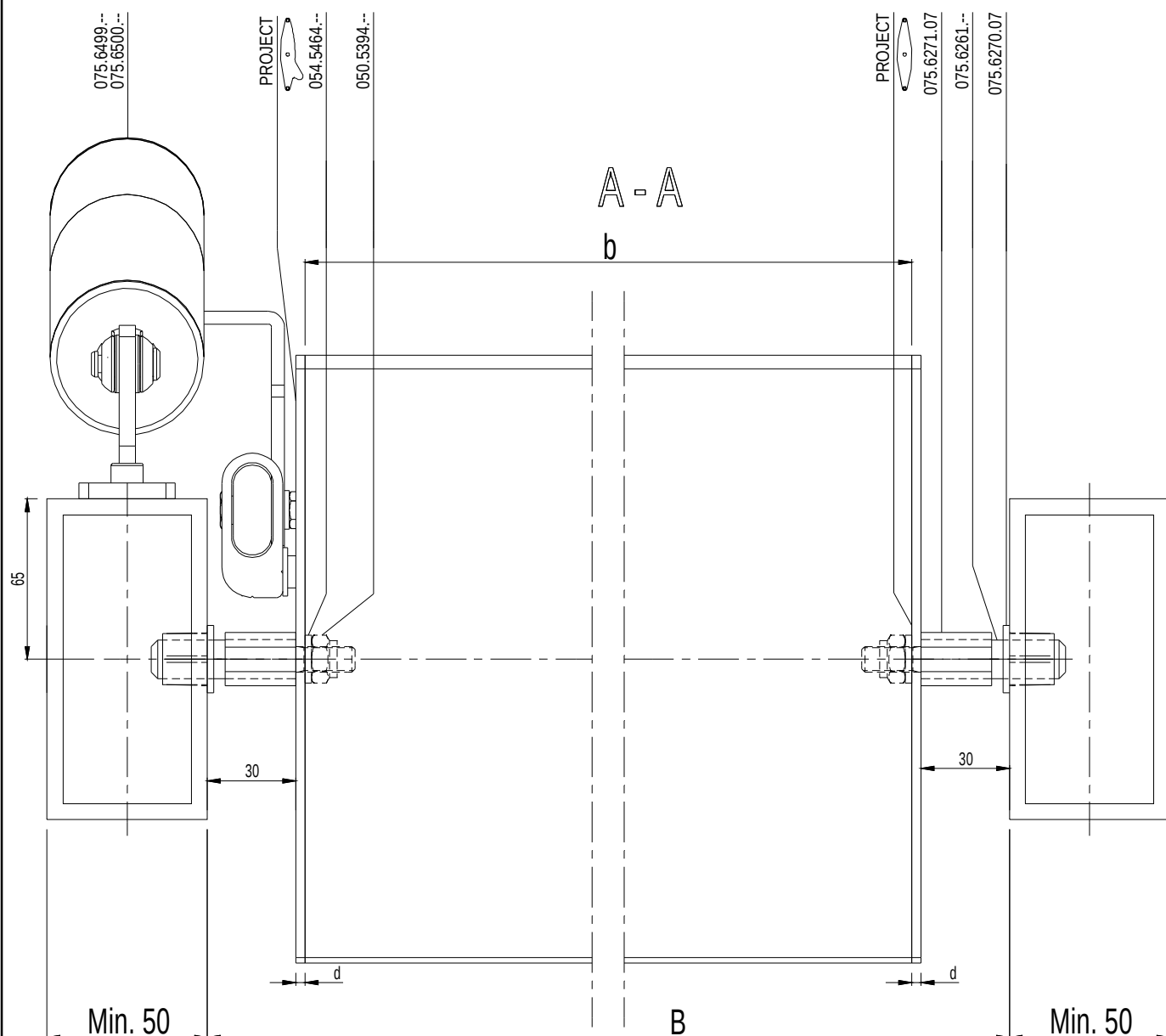
		#	
PROJECT 052.5311.--		1 *	56.G...
		6 *	
PROJECT 052.5311.--		1 *	56.G...
		6 *	
053.5199.--		1 *	56.G...
075.6260.--		1 *	56.G...
075.6261.--		1 *	56.G...
054.5464.--		2 *	56.G...
050.5394.--		2 *	56.G...
075.6270.07		2 *	56.G...
075.6271.07		1 *	56.G...

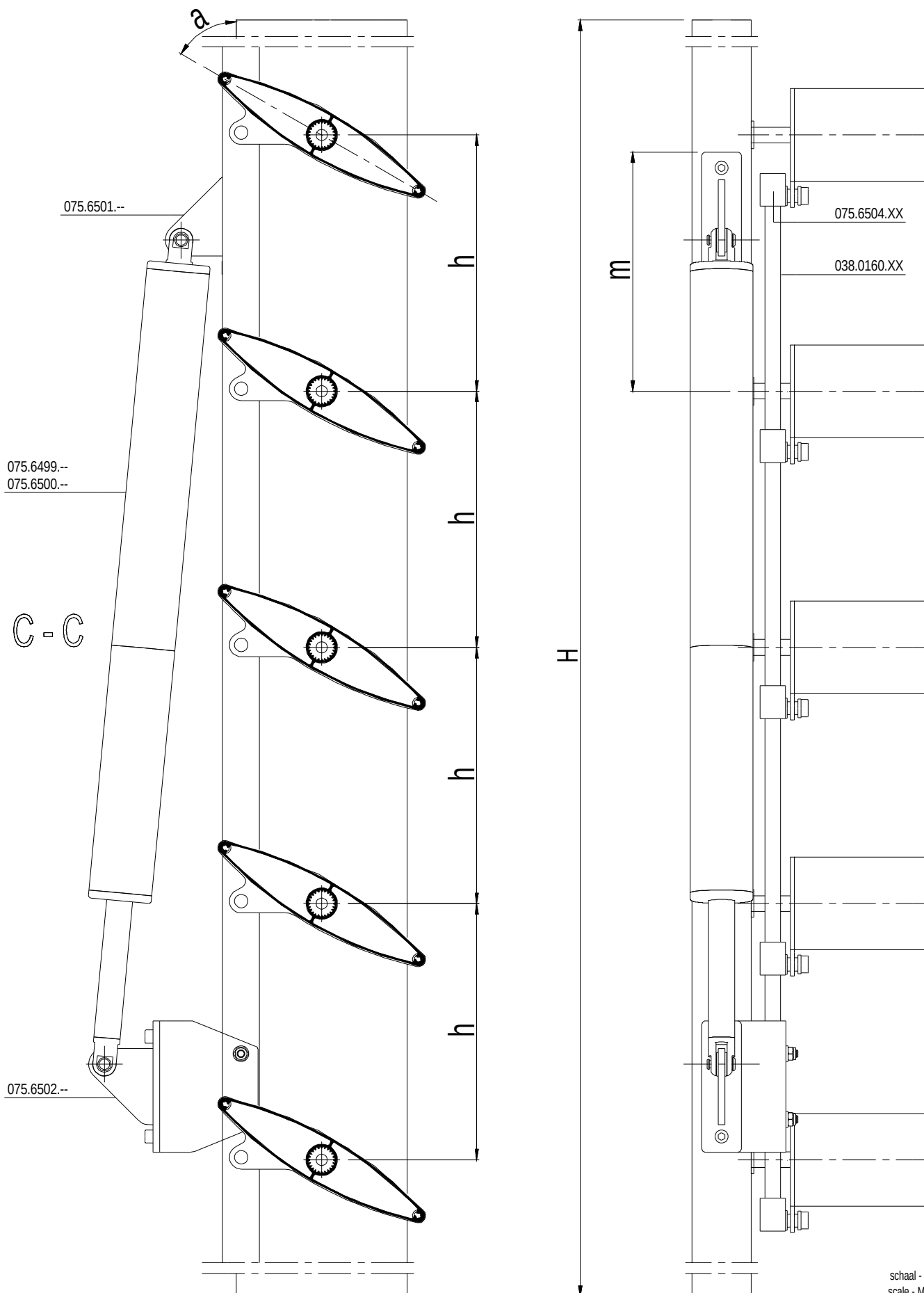


BINNENAANZICHT
VUE INTERIEURE
INSIDE VIEW
INNENSICHT

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
VARIABEL

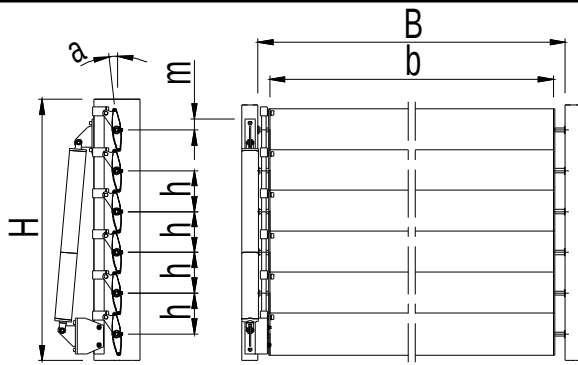
PROJECT = PROJECTAFHANKELIJK ARTIKEL
ARTICLE DEPENDANT DU PROJET
PROJECT DEPENDING ARTICLE
VOM PROJEKT ABHÄNGIGER ARTIKEL





schaal - échelle
scale - Maßstab
1/4

D0062231



a: min. 6° (*)

a: max. 140°

h: 115 mm

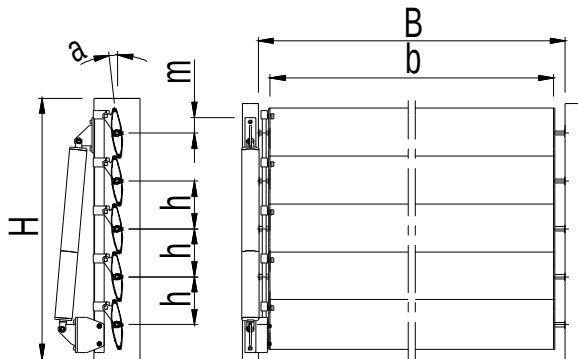
m: 31 mm

n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
 (*) : A COURSE MINIMAL DU MOTEUR
 (*) : AT MINIMUM STROKE OF MOTOR
 (*) : AM MINIMUM SCHLAG MOTOR

			#	$\leftarrow L_m \rightarrow$	
038.1000.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
PROJECT		1 * n	56.G...
052.5311.--		2 * n	
PROJECT		1 * n	56.G...
052.5311.--		2 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



a: min. 6° (*)

a: max. 130°

h: 135 mm

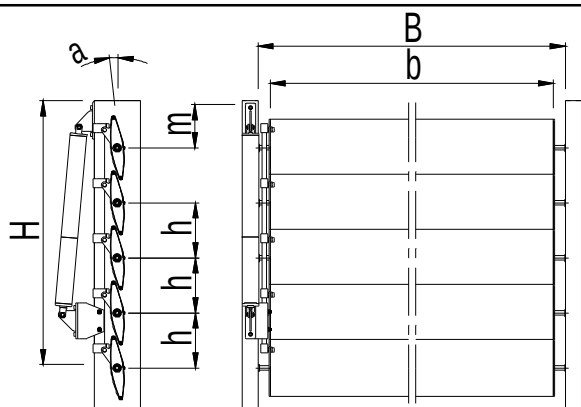
m: 57 mm

n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
 (*) : A COURSE MINIMAL DU MOTEUR
 (*) : AT MINIMUM STROKE OF MOTOR
 (*) : AM MINIMUM SCHLAG MOTOR

			#	$\leftarrow L_m \rightarrow$	
038.1001.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
PROJECT		1 * n	56.G...
052.5311.--		2 * n	
PROJECT		1 * n	56.G...
052.5311.--		2 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



a: min. 5° (*)
a: max. 115°

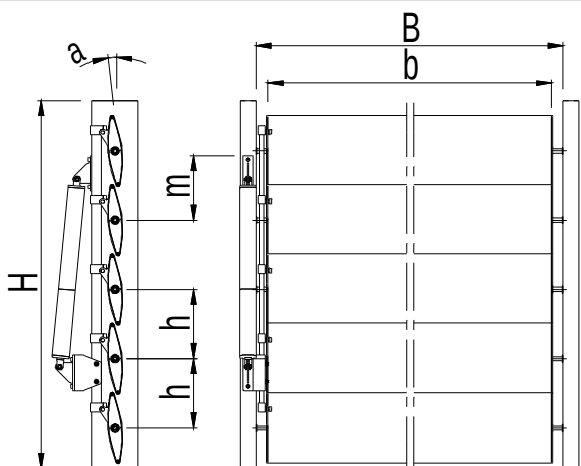
h: 175 mm
m: 55 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	Lm	
038.1002.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
PROJECT 052.5311.--		1 * n	56.G...
		2 * n	
PROJECT 052.5311.--		1 * n	56.G...
		2 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



a: min. 3° (*)
a: max. 110°

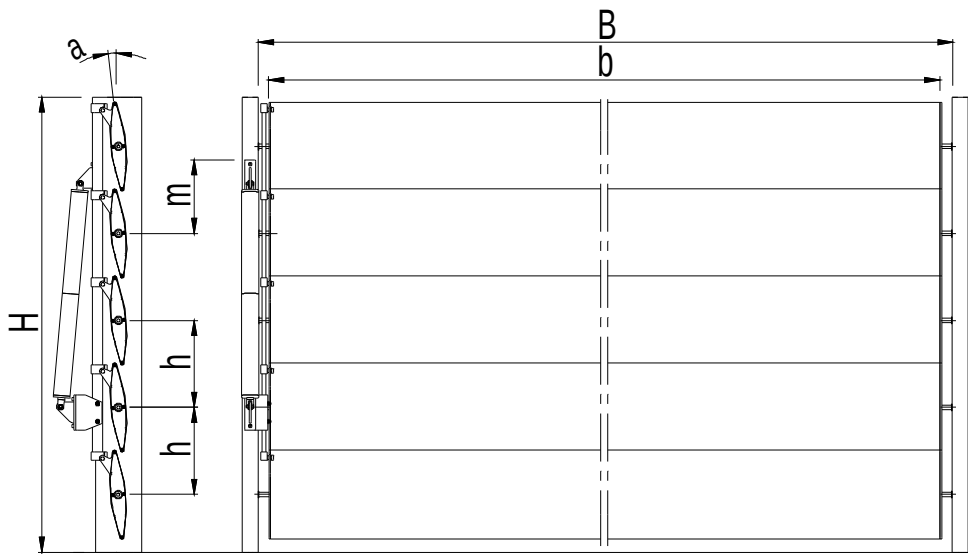
h: 195 mm
m: 182 mm

n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	Lm	
038.1003.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
PROJECT 052.5311.--		1 * n	56.G...
		2 * n	
PROJECT 052.5311.--		1 * n	56.G...
		2 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6499.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



a: min. 2° (*)
a: max. 132°

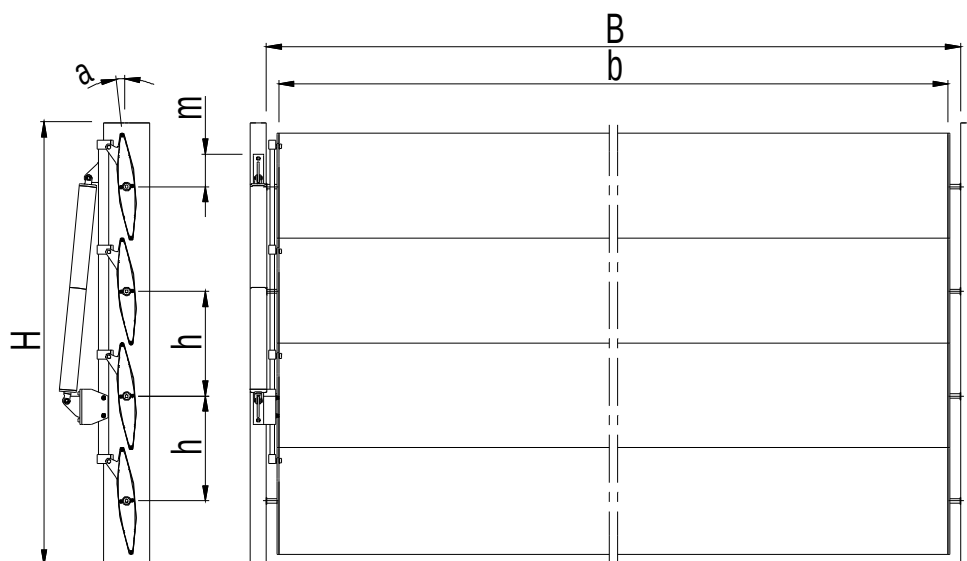
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

h: 245 mm
m: 207 mm

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L_m	
038.1004.XX			n	$B - 60 * 2d$	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	$(n - 1) * h + 25$	56.C...

		#	
PROJECT		1 * n	56.G...
052.5311.--		4 * n	
PROJECT		1 * n	56.G...
052.5311.--		4 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



a: min. 3° (*)
a: max. 115°

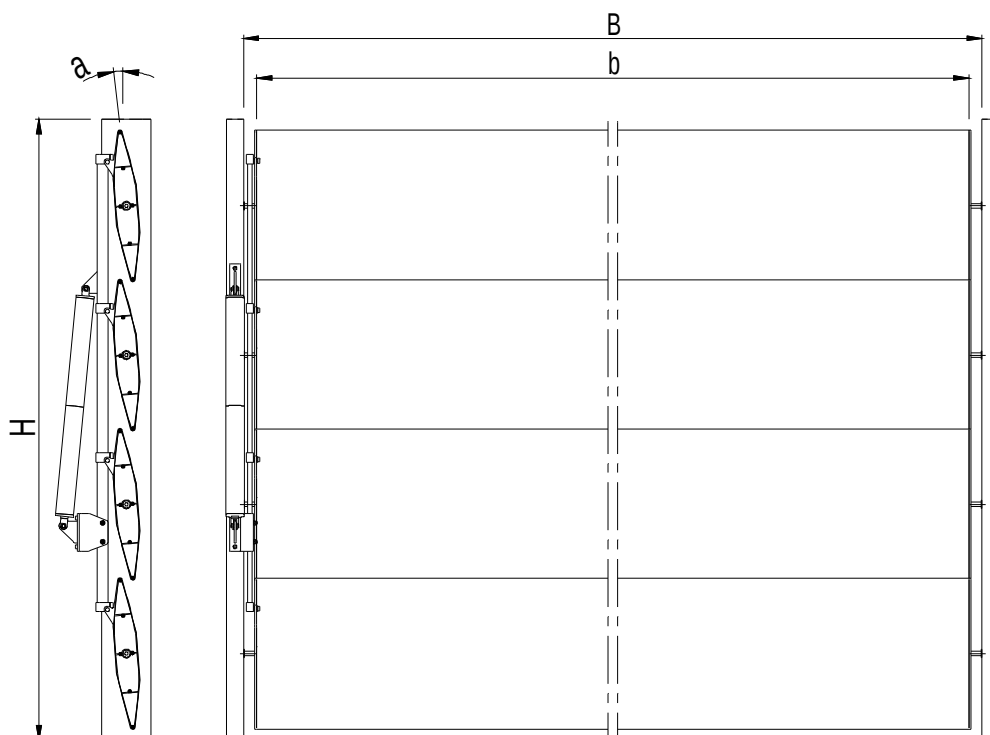
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

h: 295 mm
m: 91 mm

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L_m	
038.1005.XX			n	$B - 60 * 2d$	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	$(n - 1) * h + 25$	56.C...

		#	
PROJECT		1 * n	56.G...
052.5311.--		4 * n	
PROJECT		1 * n	56.G...
052.5311.--		4 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



a: min. 2° (*)
a: max. 108°

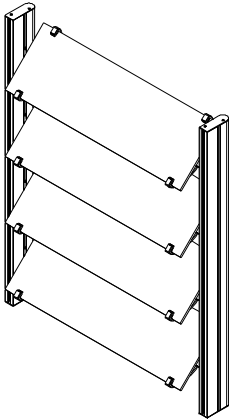
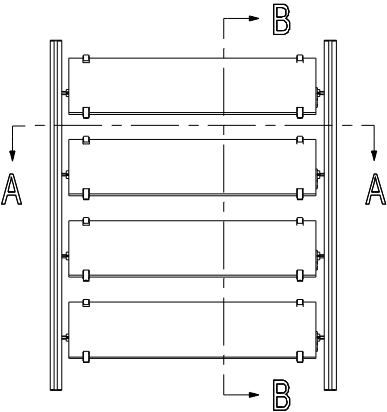
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

h: 395 mm
m: 242 mm

(*) : BIJ MINIMUM SLAG VAN MOTOR
(*) : A COURSE MINIMAL DU MOTEUR
(*) : AT MINIMUM STROKE OF MOTOR
(*) : AM MINIMUM SCHLAG MOTOR

			#	L_m	
038.1006.XX			n	B - 60 * 2d	56.C...
0B0.0901.XX			n	30	56.C...
038.0160.XX			1	(n - 1) * h + 25	56.C...

		#	
PROJECT		1 * n	56.G...
052.5311.--		6 * n	
PROJECT		1 * n	56.G...
052.5311.--		6 * n	
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...
075.6261.--		2 * n	56.G...
054.5464.--		2 * n	56.G...
050.5394.--		2 * n	56.G...
075.6270.07		2 * n	56.G...
075.6271.07		2 * n	56.G...



(**)

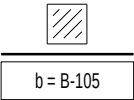
PRESSURE (Pa)	X	Y	Z
800	1450	1400	1350
1200	1340	1200	1180
1600	1260	1000	1050
2000	1200	800	910
2400	1150	667	760
2800	1050	571	650
3200	1020	500	570

MAX. LENGTE GLAS : ZIE GLASLEVERANCIER

LONGUEUR MAX. DE VERRE : VOIR FOURNISSEUR DE VERRE

MAX. LENGTH OF GLASS : SEE GLASS SUPPLIER

MAX. GLASLAENGE : SIEHE GLASLIEFERANT



BINNENAANZICHT

VUE INTERIEURE

INSIDE VIEW

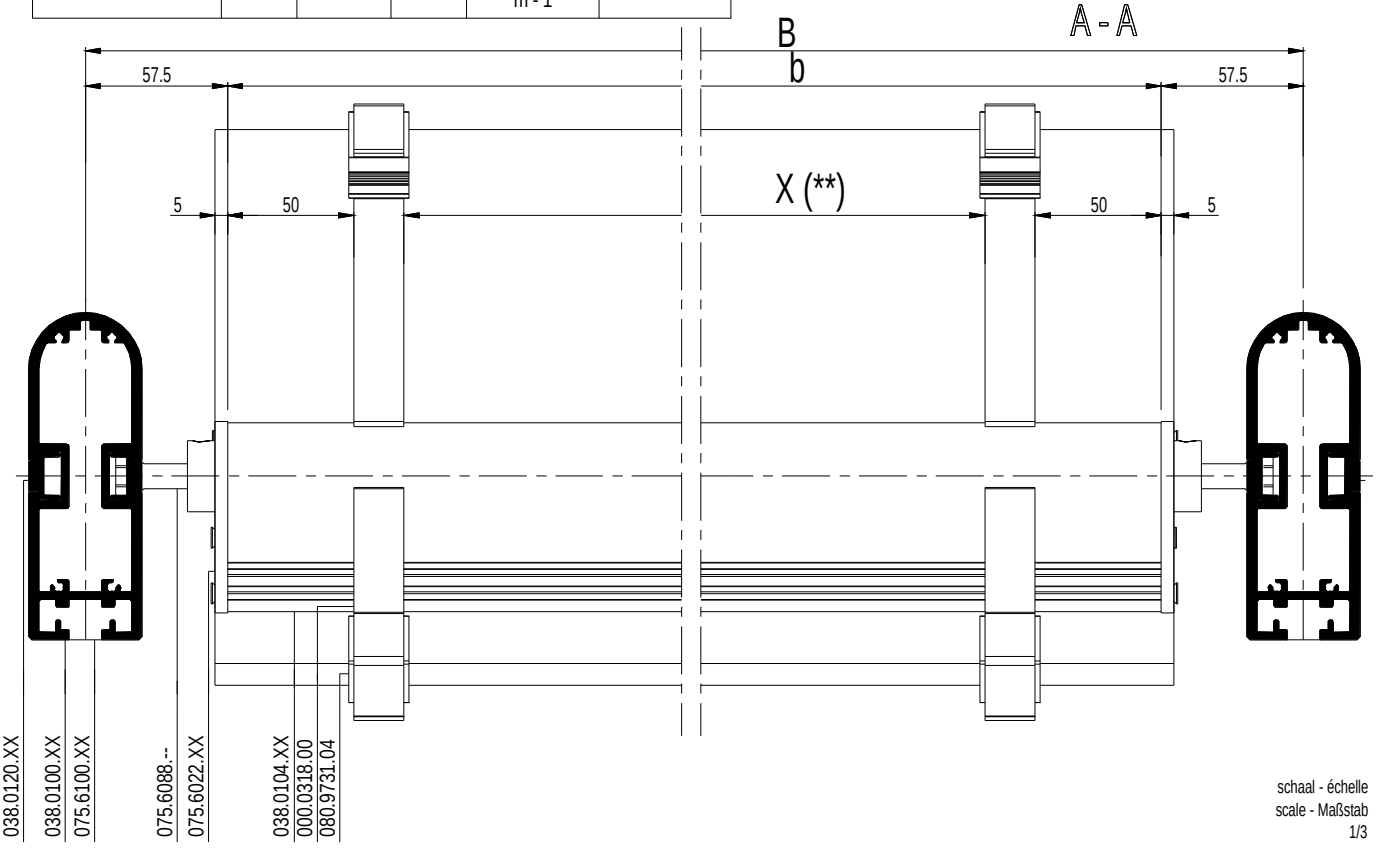
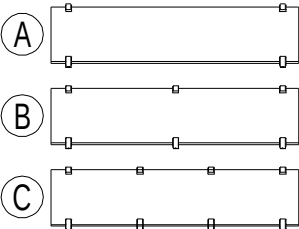
INNENSICHT

A

B

C

			#	Lm	
038.0120.XX			2	H - 5	56.C...
			(n - 1) . 2	h - 90	
			4	$\frac{H - 95 - h . (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.0104.XX			n	b = B - 115	56.C...
038.0120.XX			4	50	56.C...
			(m-1).2	$\frac{b - 100 - (m.20)}{m - 1}$	



schaal - échelle

scale - Maßstab

1/3

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
0° / 15° / 30° / 45° / 60° / 75° / 90°

AFSTAND / BREEDTE / HOEKINCLINATIE LAMEL
DISTANCE / LARGEUR / INCLINAISON D'ANGLE LAME
DISTANCE / WIDTH / ANGLE INCLINATION LOUVRE
ABSTAND / BREITE / WINKELINKLINATION LAMELLE
56.E....

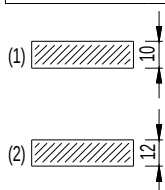
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

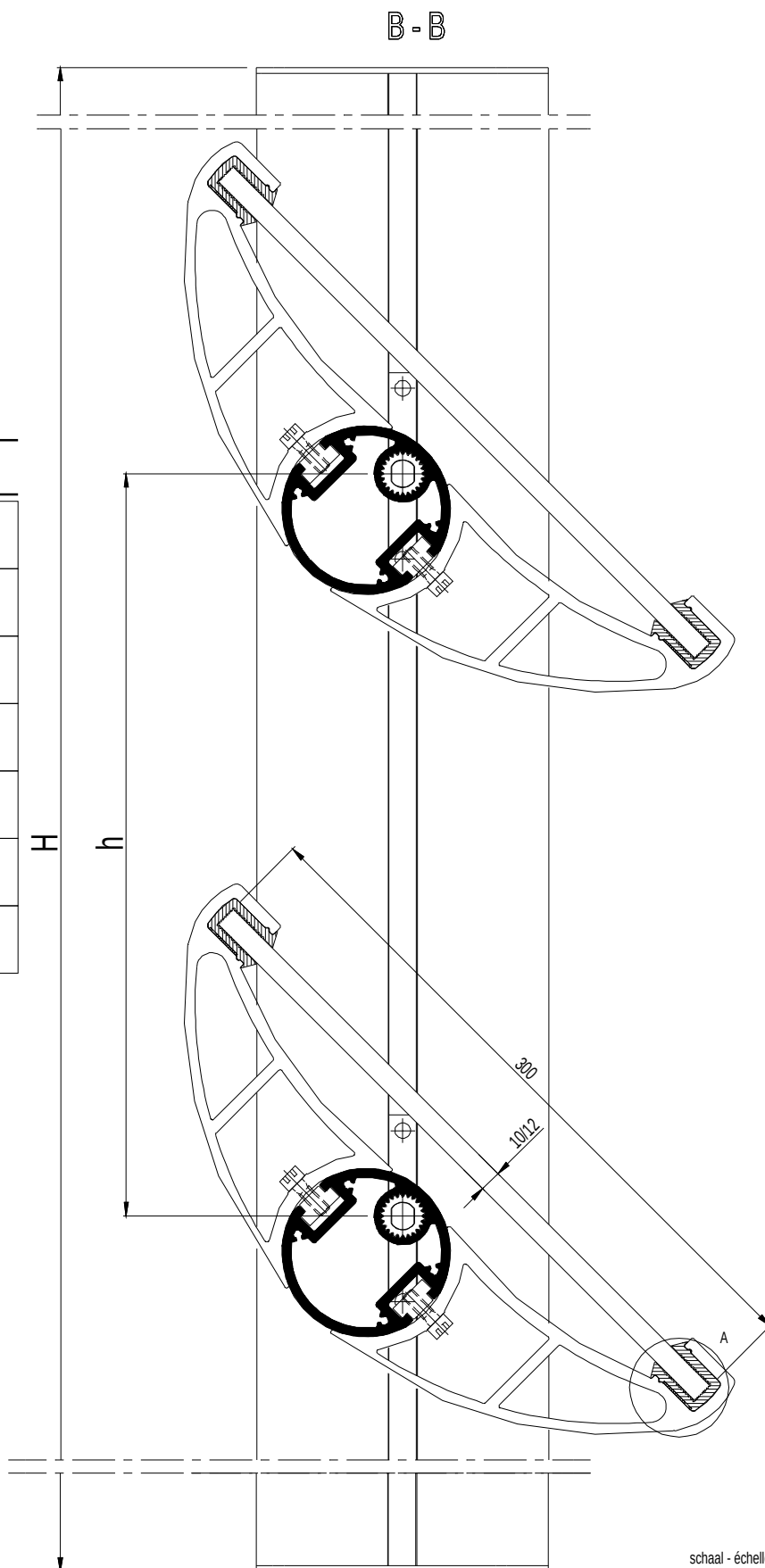
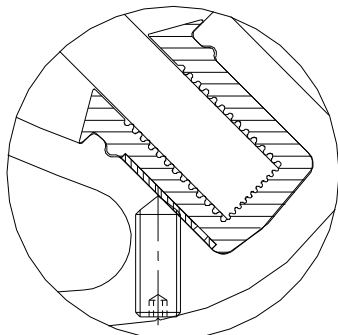
m = AANTAL GLASHOUDERS / LAMEL
m = NOMBRE DE SUPPORTS DE VITRAGE / LAME
m = NUMBER OF PANEL GRIPS / LOUVRE
m = ANZAHL GLASHALTEPROFILE / LAMEL

A

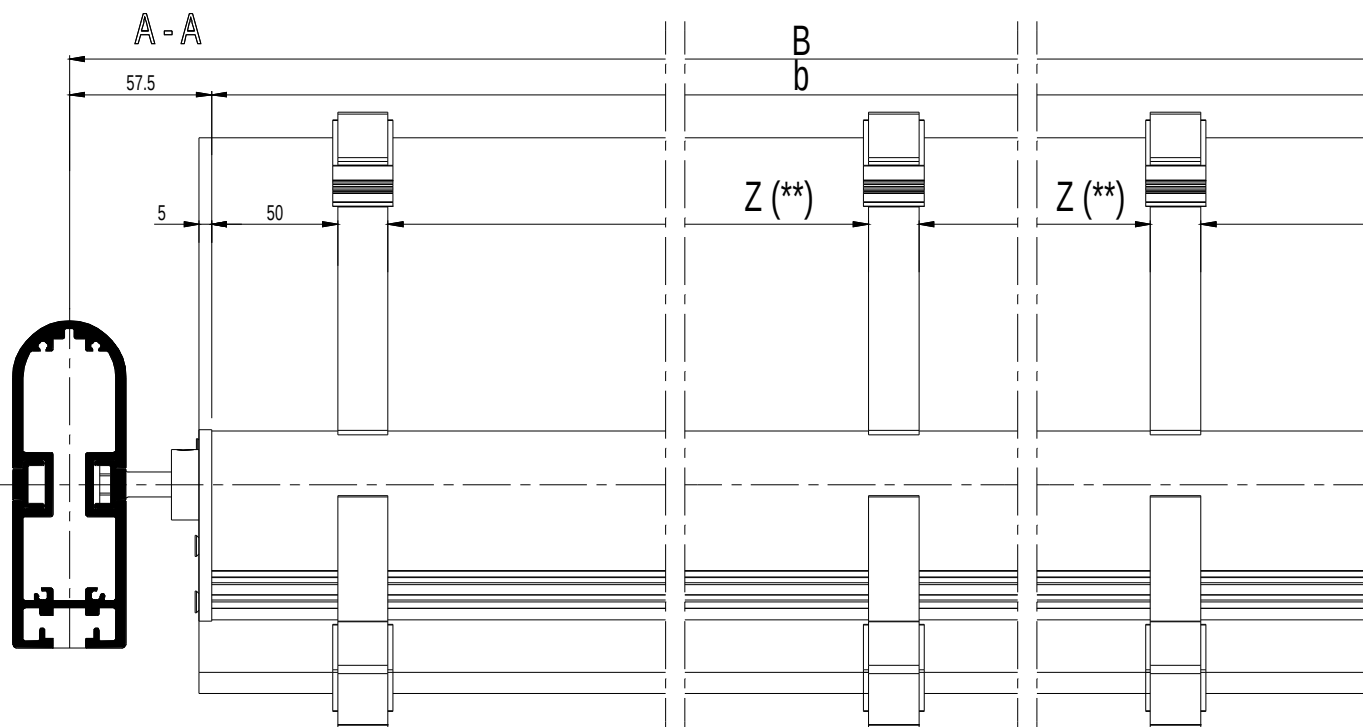
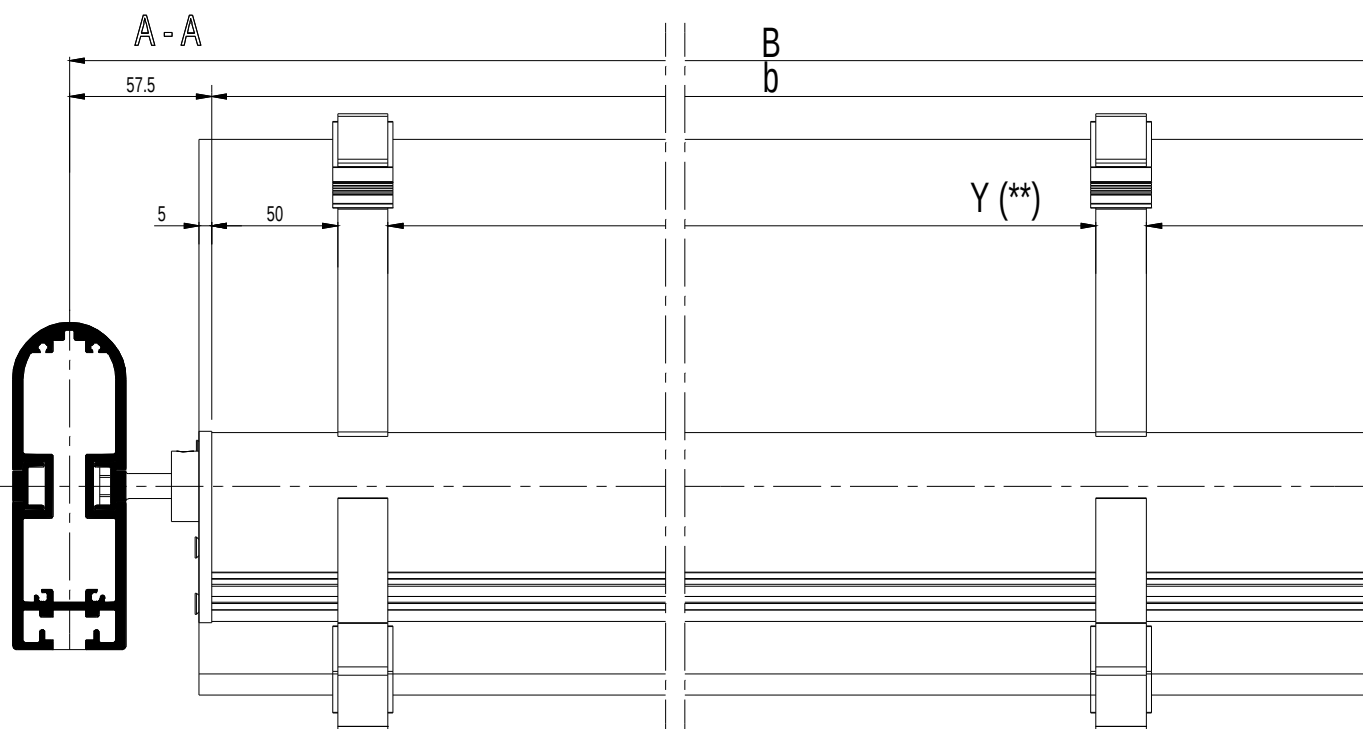
		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6088.--		2 *	56.G...
075.6300.XX		4 *	56.G...
075.6027.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6299.XX		4 *	56.G...
050.5039.--		4 *	56.G...
(1) 080.9730.04		4 *	56.G...
051.5283.--		1 *	56.G...
of - of - ou - oder			
(2) 080.9731.04		4 *	56.G...
051.5283.--		1 *	56.G...



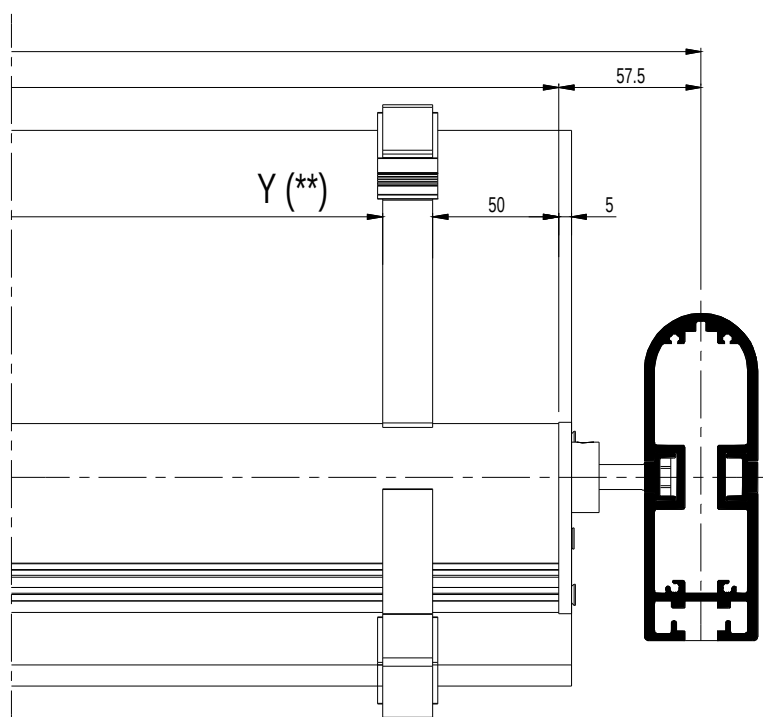
DETAIL A



schaal - échelle
scale - Maßstab
1/3



B



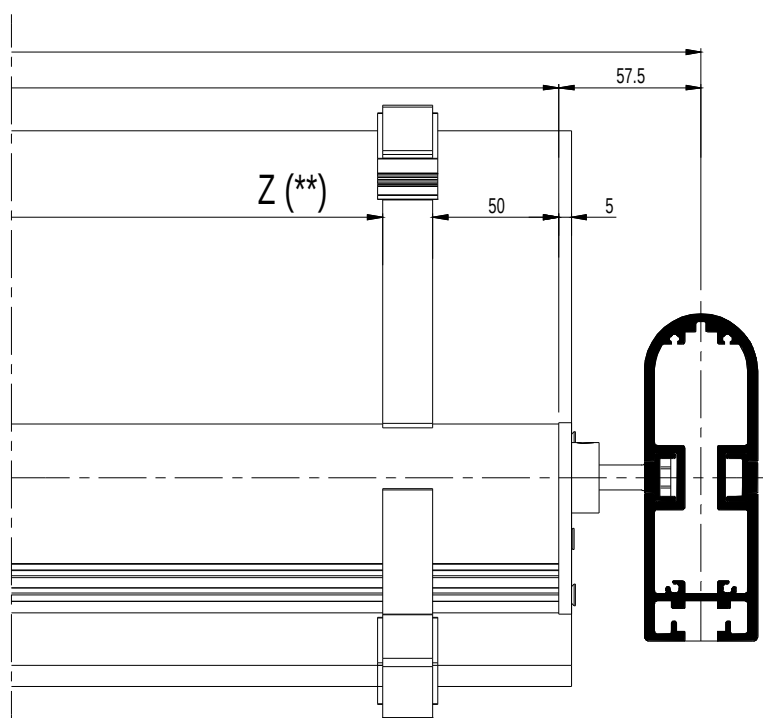
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

B

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6088.--		2 *	56.G...
075.6300.XX		6 *	56.G...
075.6027.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6299.XX		6 *	56.G...
050.5039.--		6 *	56.G...
(1) 080.9730.04		6 *	56.G...
051.5283.-- or - or - ou - oder		1 *	56.G...
(2) 080.9731.04		6 *	56.G...
051.5283.--		1 *	56.G...

C



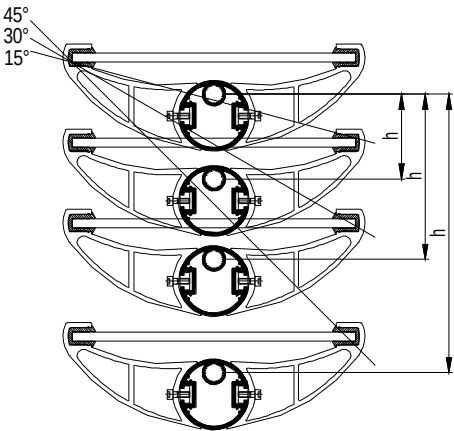
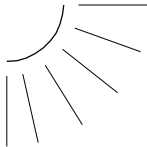
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

C

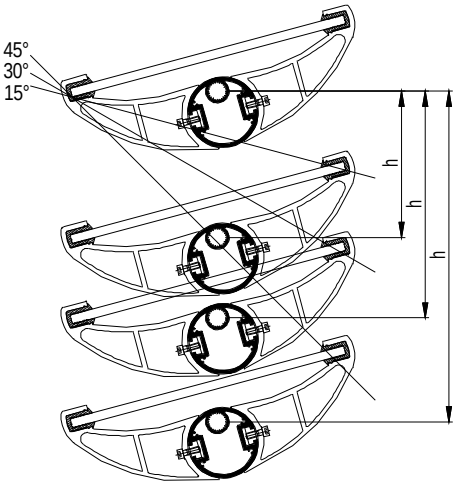
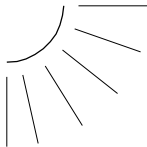
		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6088.--		2 *	56.G...
075.6300.XX		8 *	56.G...
075.6027.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6299.XX		8 *	56.G...
050.5039.--		8 *	56.G...
(1) 080.9730.04		8 *	56.G...
051.5283.-- or - or - ou - oder		1 *	56.G...
(2) 080.9731.04		8 *	56.G...
051.5283.--		1 *	56.G...

schaal - échelle
scale - Maßstab
1/3



LAMELLENHELLING PENTE DES LAMES LAMELLA SLOPE LAMELLENNEIGUNG	0°
--	----

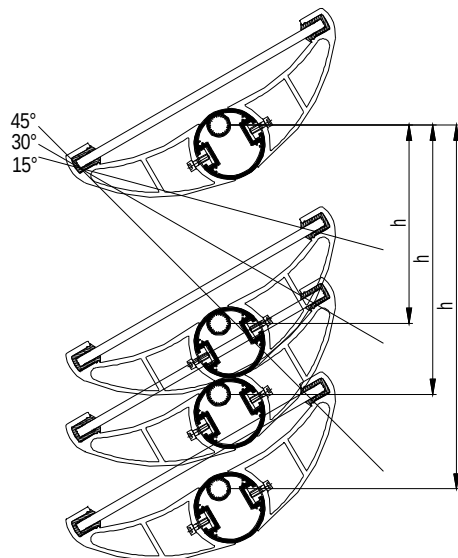
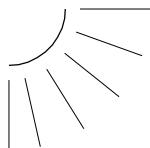
h		
15°	30°	45°
90°	180°	305°



LAMELLENHELLING PENTE DES LAMES LAMELLA SLOPE LAMELLENNEIGUNG	15°
--	-----

h		
15°	30°	45°
160°	250°	370°

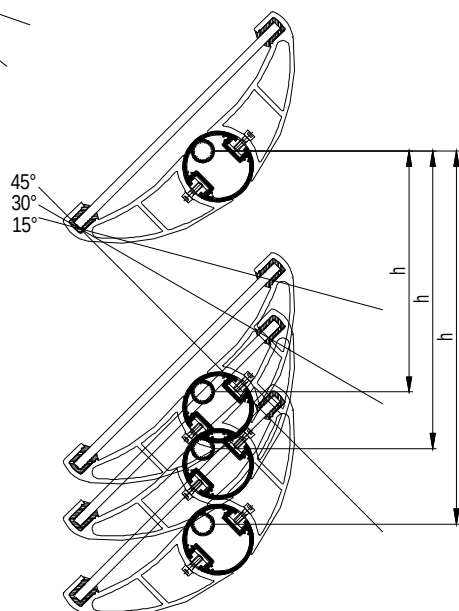
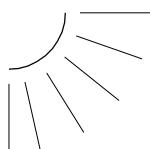
h	LAMELLENAFSTAND DISTANCE DES LAMES LAMELLA DISTANCE LAMELLENABSTAND
---	--



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

30°

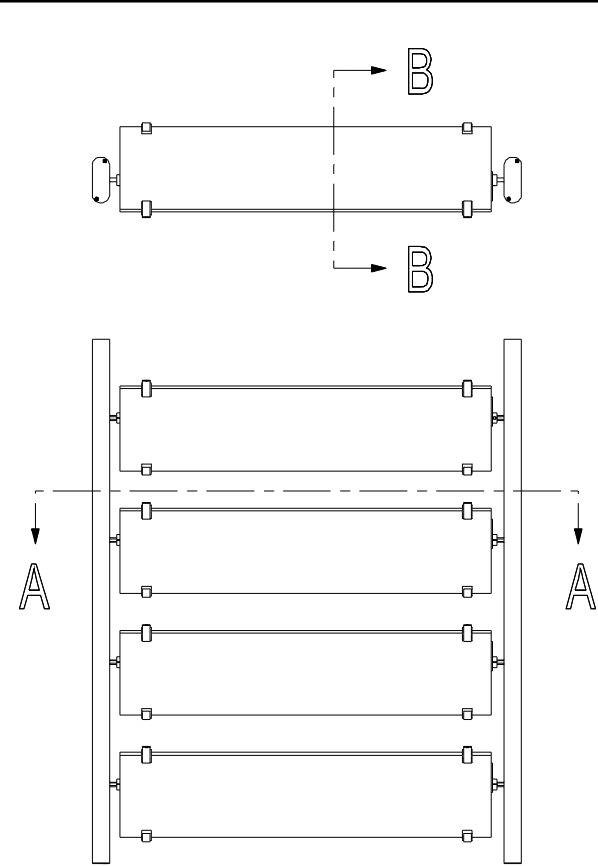
h		
15°	30°	45°
225°	300°	410°



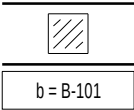
LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

45°

h		
15°	30°	45°
270°	335°	420°

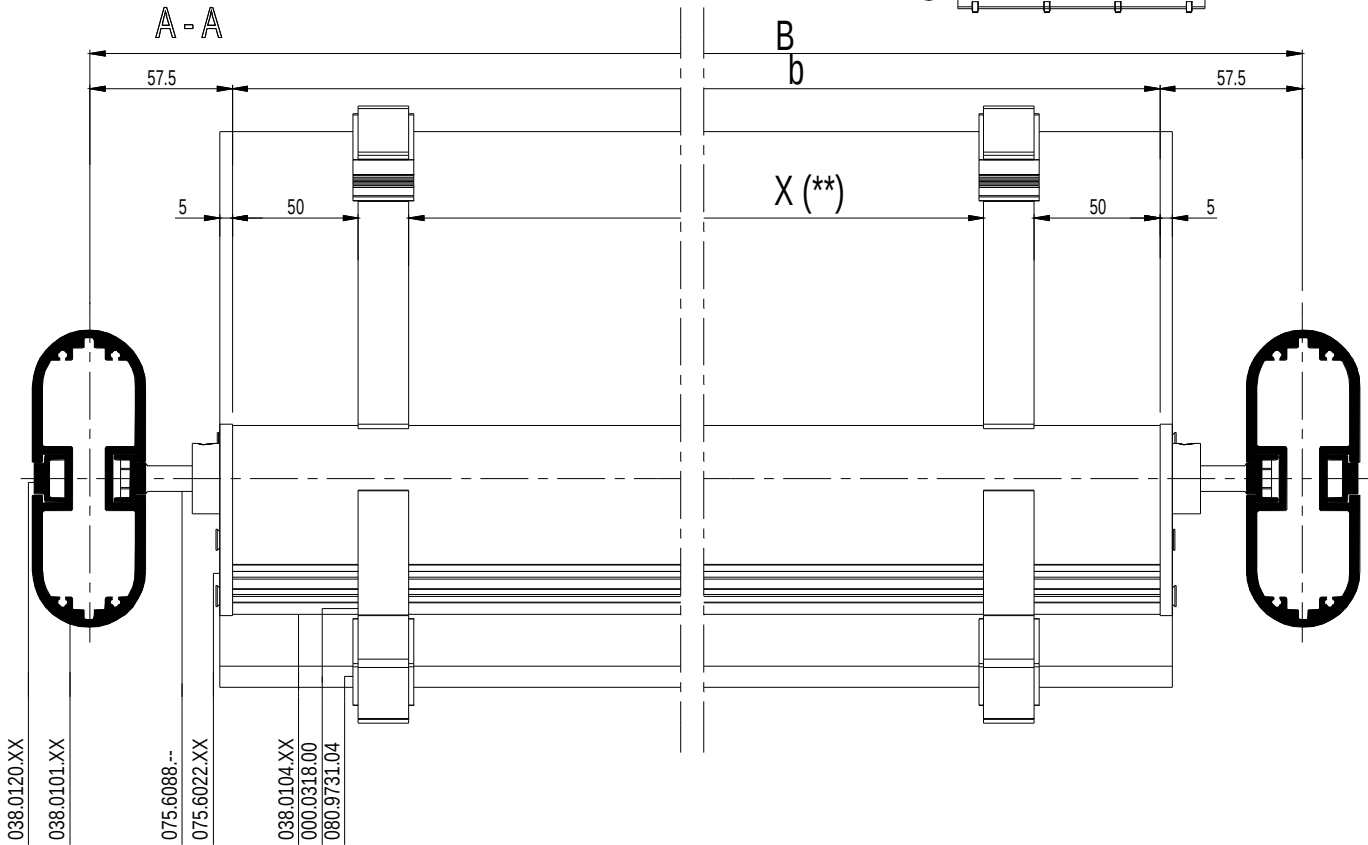
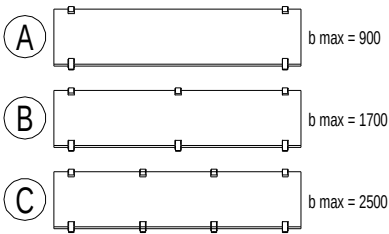
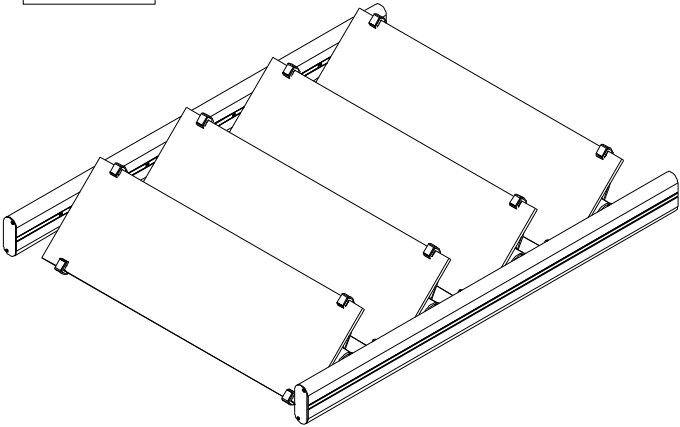


(**) PRESSURE (Pa)	X	Y	Z
800	1450	1400	1350
1200	1340	1200	1180
1600	1260	1000	1050
2000	1200	800	910
2400	1150	667	760
2800	1050	571	650
3200	1020	500	570



b = B-101

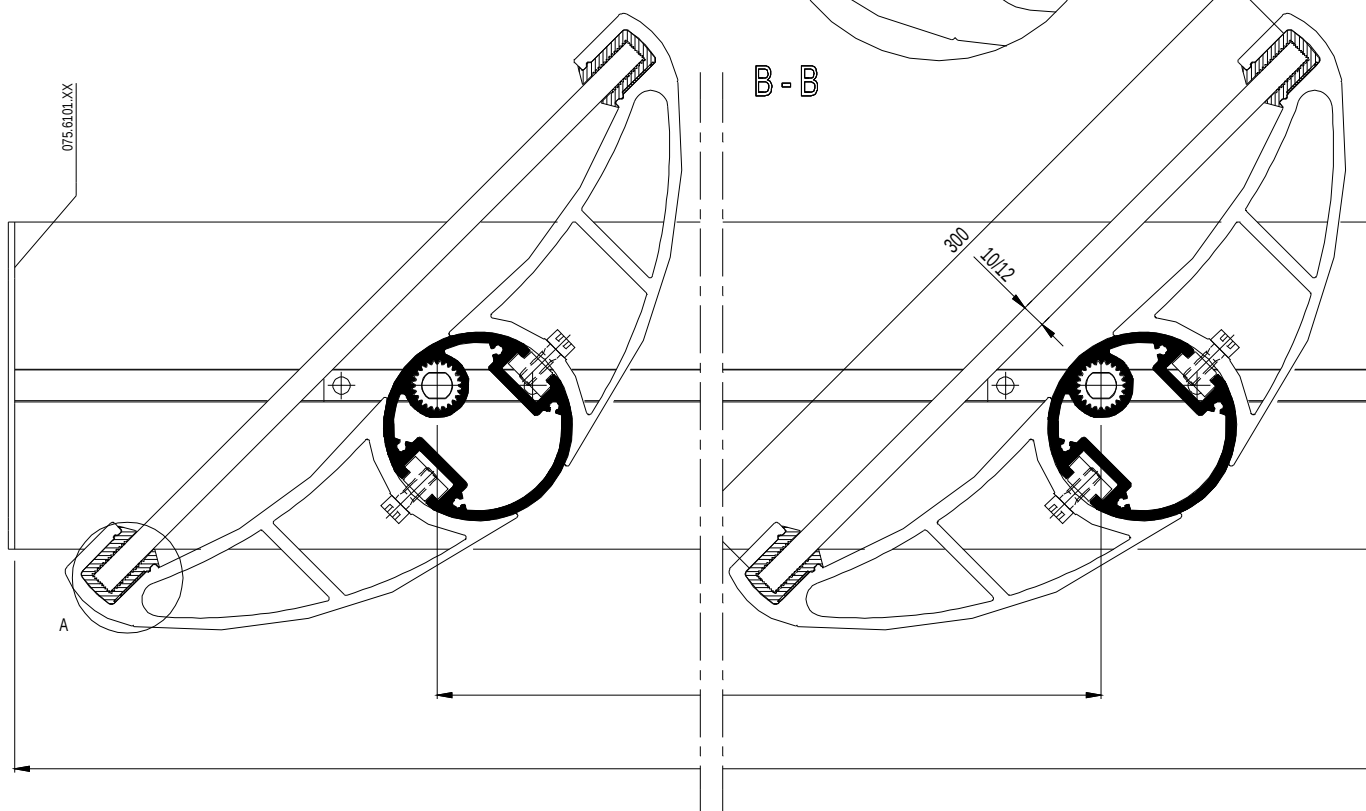
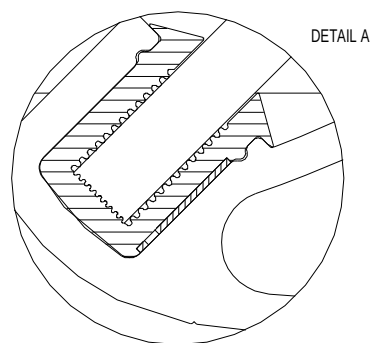
MAX. LENGTE GLAS : ZIE GLASLEVERANCIER
LONGUEUR MAX. DE VERRE : VOIR FOURNISSEUR DE VERRE
MAX. LENGTH OF GLASS : SEE GLASS SUPPLIER
MAX. GLASLAENGE : SIEHE GLASLIEFERANT



038.0120.XX
038.0101.XX
075.6088.-
075.6022.XX
038.0104.XX
000.0318.00
080.9731.04

LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG
0° / 15° / 30° / 45° / 60° / 75° / 90°

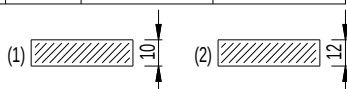
AFSTAND / BREEDTE / HOEKINCLINATIE LAMEL
DISTANCE / LARGEUR / INCLINAISON D'ANGLE LAME
DISTANCE / WIDTH / ANGLE INCLINATION LOUVRE
ABSTAND / BREITE / WINKELINKLINATION LAMELLE
56.E....



A B C

m = AANTAL GLASHOUDERS / LAMEL
m = NOMBRE DE SUPPORTS DE VITRAGE / LAME
m = NUMBER OF PANEL GRIPS / LOUVRE
m = ANZAHL GLASHALTEPROFILE / LAMEL

			#	L _m	
038.0120.XX			2 (n - 1) x 2 4	H - 2.5 h - 90 $\frac{H - 95 - h \cdot (n - 1)}{2}$	56.C...
038.0101.XX			2	H - 2.5	56.C...
038.0104.XX			n	b = B - 111	56.C...
038.0120.XX			4 (m-1).2	50 $b - 100 - (m.20)$ m - 1	56.C...

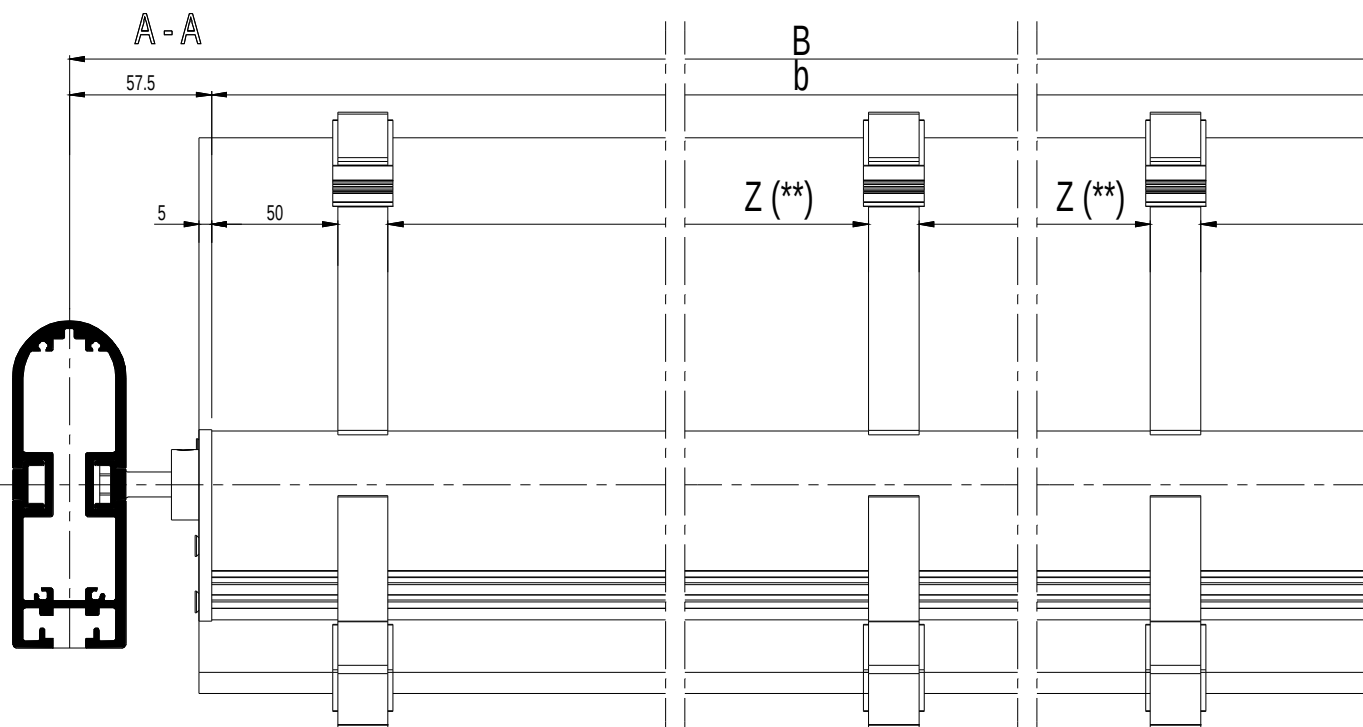
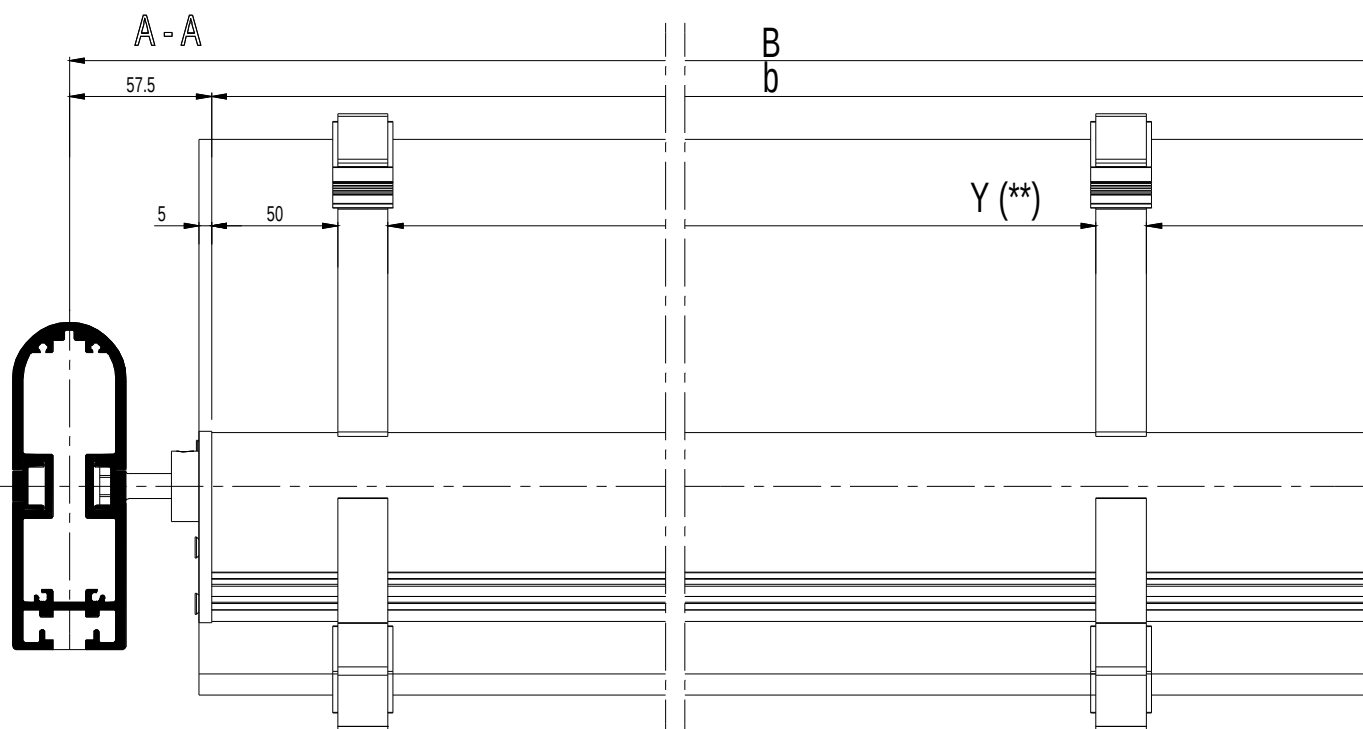


A

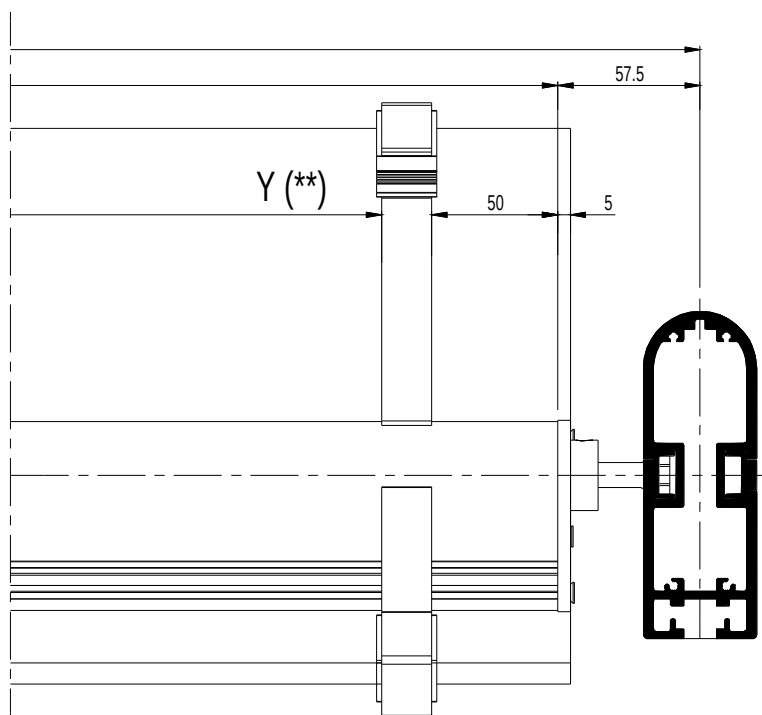
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

		#	
075.6101.XX		2	56.G...
052.5311.--		4	56.G...
075.6088.--		2*	56.G...
075.6300.XX		4*	56.G...
075.6027.XX		2*	56.G...
052.5311.--		4*	56.G...
075.6299.XX		4*	56.G...
050.5039.--		4*	56.G...
(1) 080.9730.04		4*	56.G...
051.5283.-- of - of - ou - oder		1*	56.G...
(2) 080.9731.04		4*	56.G...
051.5283.--		1*	56.G...



(B)



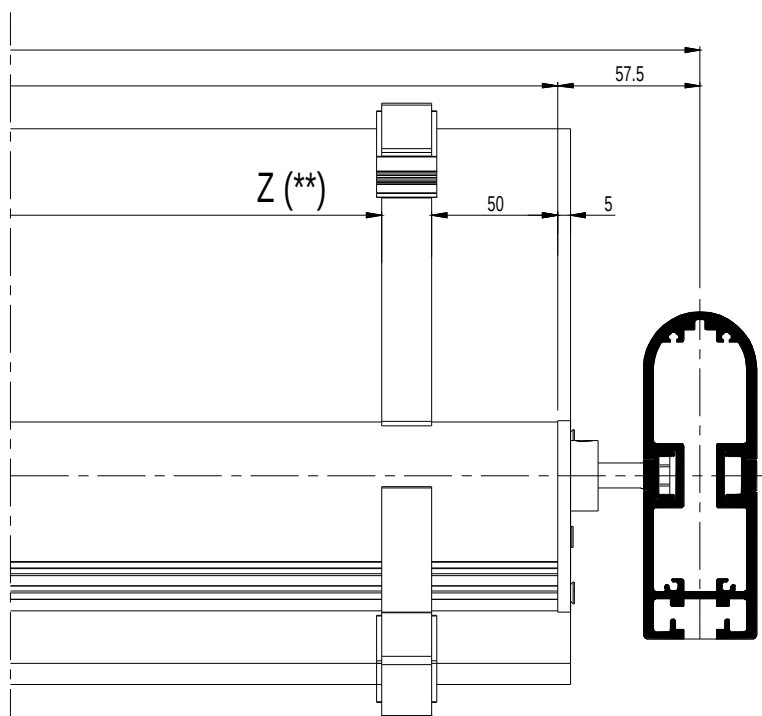
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

(B)

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6088.--		2 *	56.G...
075.6300.XX		6 *	56.G...
075.6027.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6299.XX		6 *	56.G...
050.5039.--		6 *	56.G...
(1) 080.9730.04		6 *	56.G...
051.5283.--		1 *	56.G...
(2) 080.9731.04		6 *	56.G...
051.5283.--		1 *	56.G...

(C)



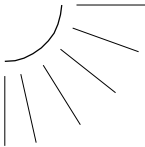
n = AANTAL LAMELLEN
n = NOMBRE DE LAMES
n = NUMBER OF LOUVRES
n = ANZAHL LAMELLEN

* PER LAMEL
* PAR LAME
* PER LOUVRE
* PER LAMELLE

(C)

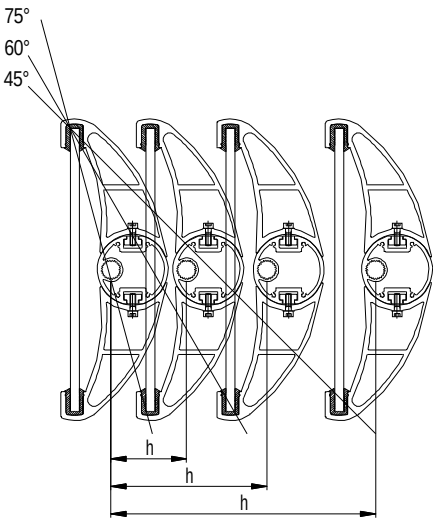
		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6088.--		2 *	56.G...
075.6300.XX		8 *	56.G...
075.6027.XX		2 *	56.G...
052.5311.--		4 *	56.G...
075.6299.XX		8 *	56.G...
050.5039.--		8 *	56.G...
(1) 080.9730.04		8 *	56.G...
051.5283.--		1 *	56.G...
(2) 080.9731.04		8 *	56.G...
051.5283.--		1 *	56.G...

schaal - échelle
scale - Maßstab
1/3

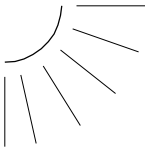


LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG

0°

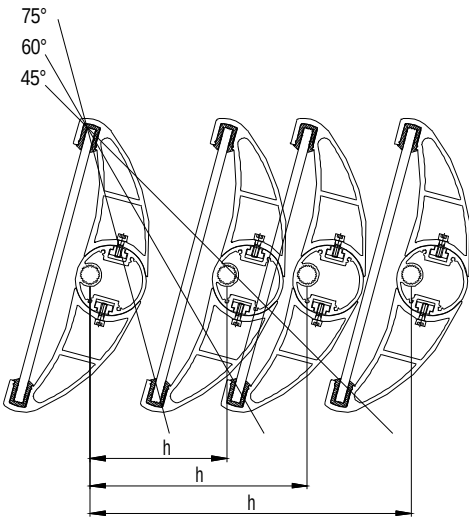


h		
45°	60°	75°
305°	180°	90°



LAMELLENHELLING
PENTE DES LAMES
LAMELLA SLOPE
LAMELLENNEIGUNG

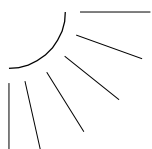
15°



h		
45°	60°	75°
370°	250°	160°

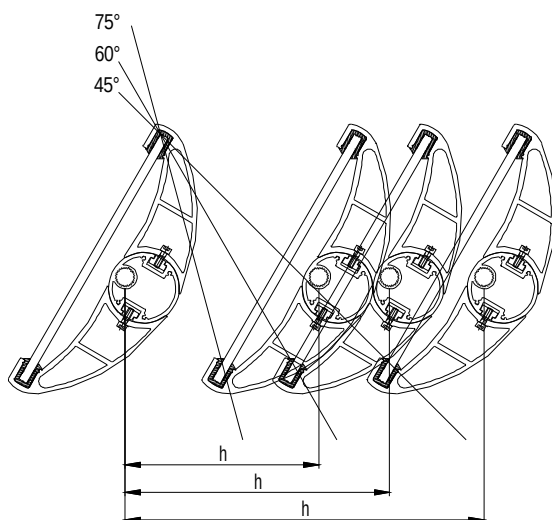
h

LAMELLENAFSTAND
DISTANCE DES LAMES
LAMELLA DISTANCE
LAMELLENABSTAND

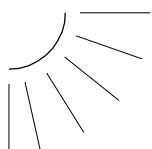


LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

30°

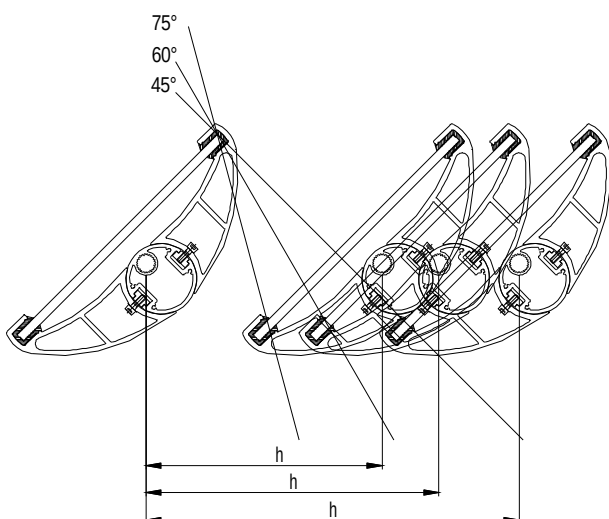


h		
45°	60°	75°
410°	300°	225°



LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

45°

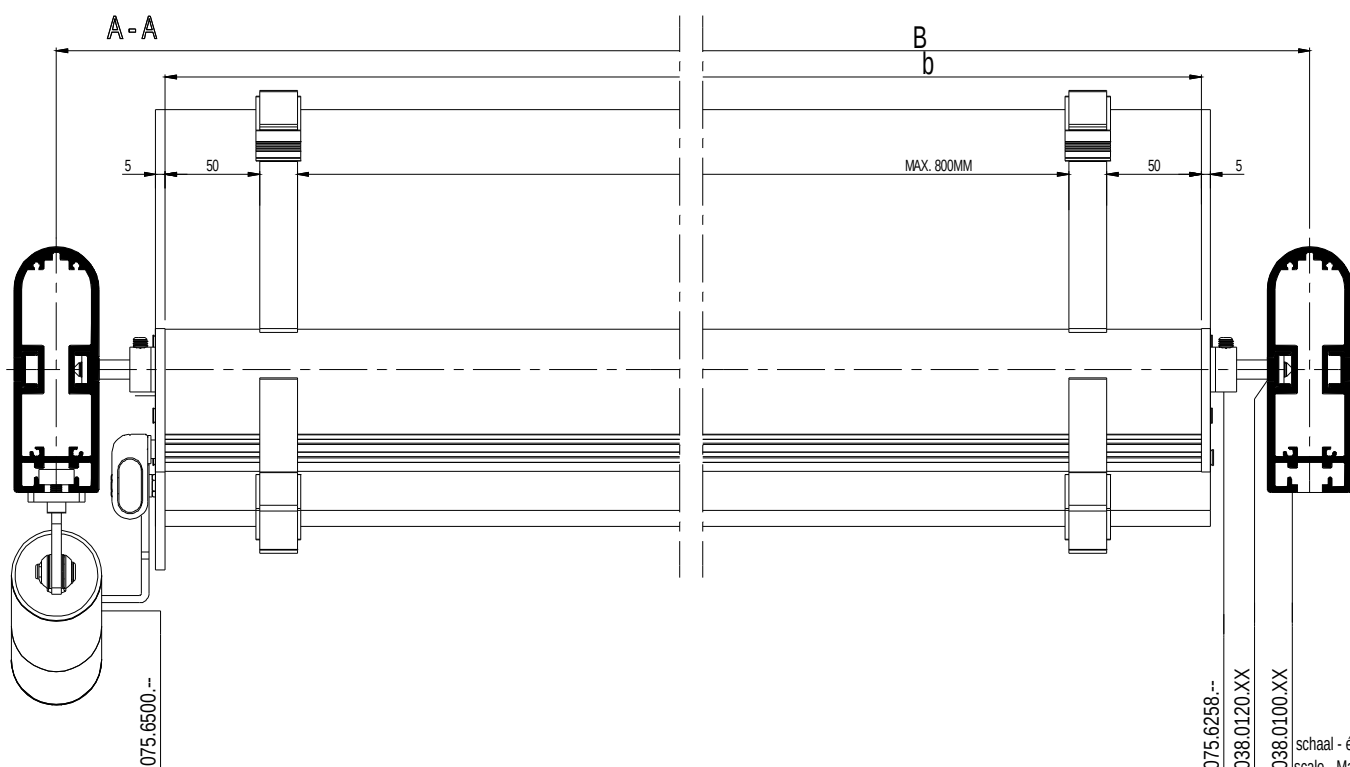
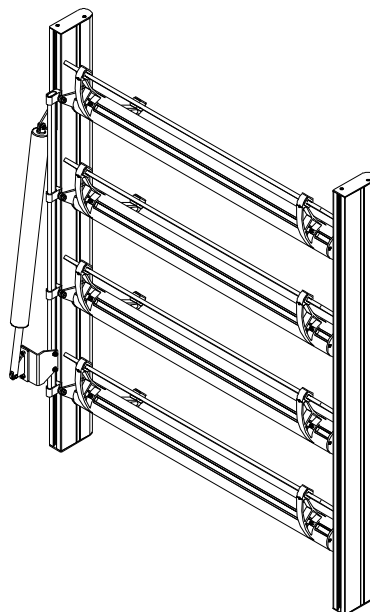
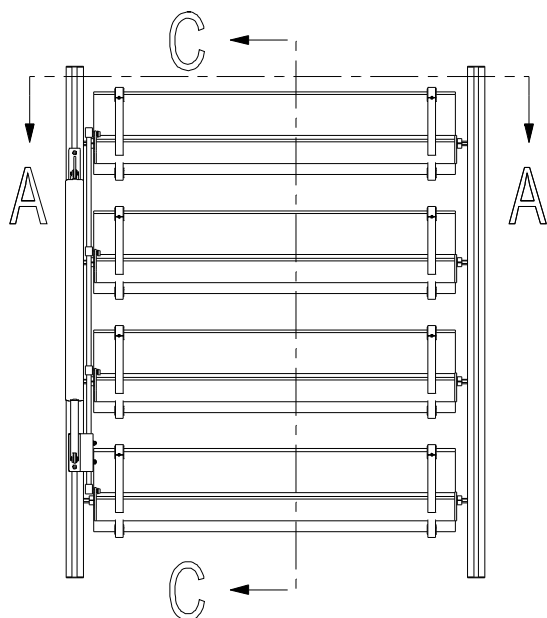


h		
45°	60°	75°
420°	335°	270°

BINNENAANZICHT
 VUE INTERIEURE
 INSIDE VIEW
 INNENSICHT

LAMELLENHELLING
 PENTE DES LAMES
 LAMELLA SLOPE
 LAMELLENNEIGUNG

VARIABEL



075.6258.-

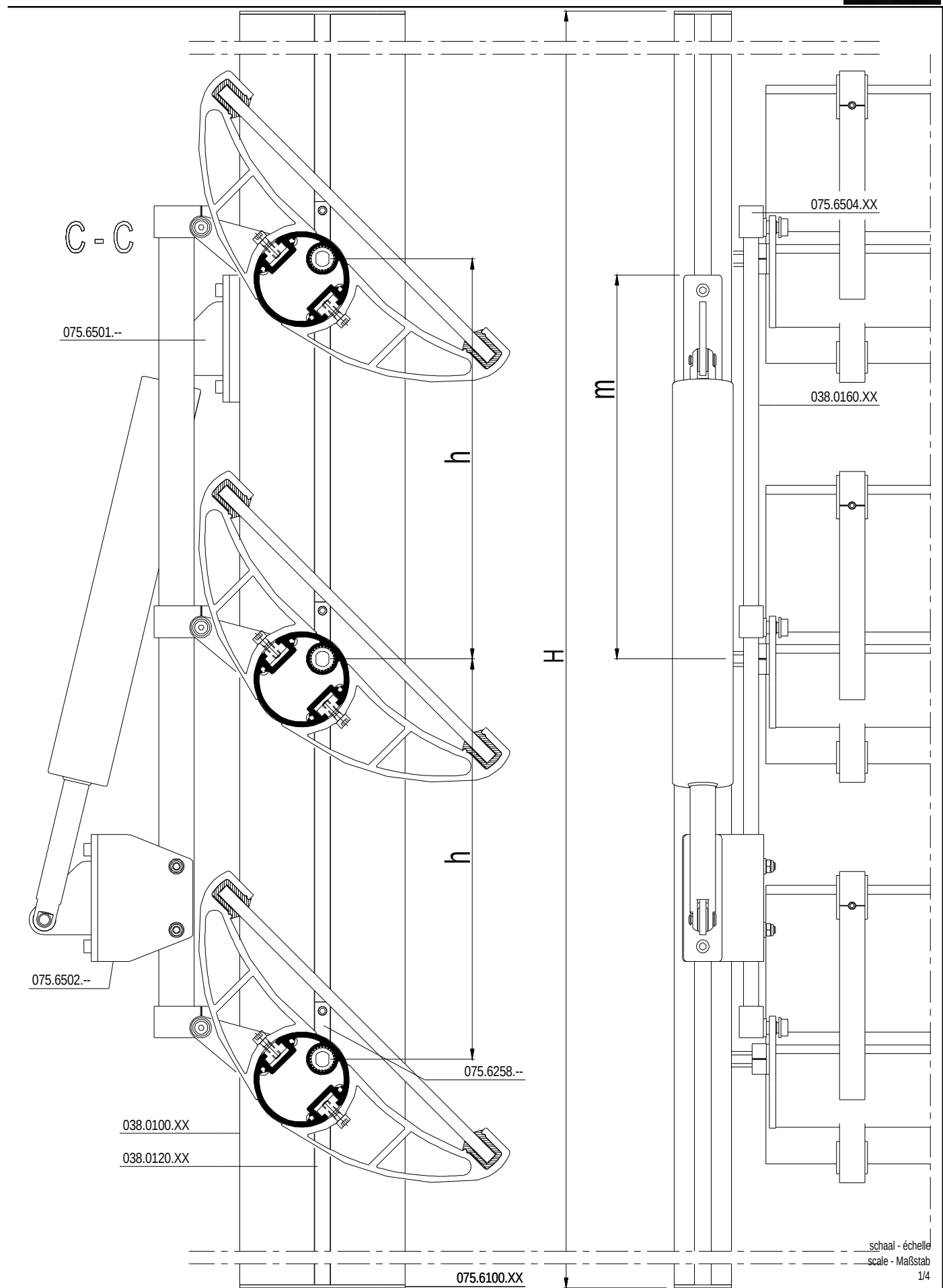
038.0120.XX

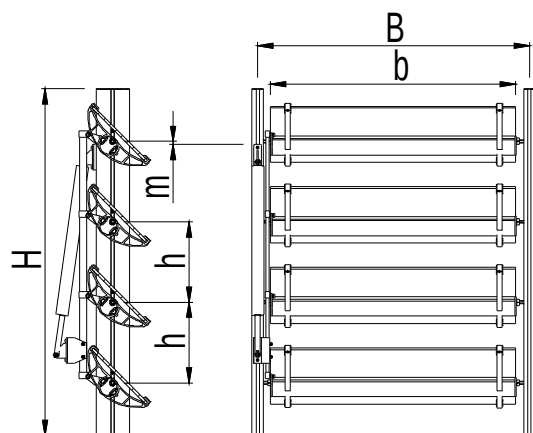
038.0100.XX

schaal - échelle
 scale - Maßstab

1/4

D0067314





n = AANTAL LAMELLEN
 n = NOMBRE DE LAMES
 n = NUMBER OF LOUVRES
 n = ANZAHL LAMELLEN

(*) : BIJ MINIMUM SLAG VAN MOTOR
 (*) : A COURSE MINIMAL DU MOTEUR
 (*) : AT MINIMUM STROKE OF MOTOR
 (*) : AM MINIMUM SCHLAG MOTOR

			#	$\leftarrow L_m \rightarrow$	
038.0120.XX			2	H - 5	56.C...
			(n - 1) . 2	h - 90	
			4	$\frac{H - 95 - h \cdot (n - 1)}{2}$	
038.0100.XX			2	H - 5	56.C...
038.0104.XX			n	B - 111	56.C...
038.0160.XX			1	(n - 1) . h + 25	56.C...
038.0120.XX			4	50	56.C...
			(m-1).2	$\frac{b - 100 - (m.20)}{m - 1}$	

		#	
075.6100.XX		4	56.G...
052.5311.--		8	56.G...
075.6258.--		2 * n	56.G...
075.6027.XX		n	56.G...
052.5311.--		4 * n	56.G...
075.6077.XX		n	56.G...
052.5311.--		4 * n	56.G...
075.6300.XX		4 *	56.G...
075.6299.XX		4 *	56.G...
050.5039.--		4 *	56.G...
080.9730.04		4 *	56.G...
051.5283.--		1 *	56.G...
080.9731.04		4 *	56.G...
051.5283.--		1 *	56.G...
075.6504.XX		n	56.G...
075.6501.--		2	56.G...
075.6502.--		1	56.G...
075.6500.--		1	56.G...

F

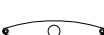
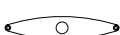
Montagetekeningen

Fabrication et montage

Assembly drawings

Montagezeichnungen

EINDSTUK VOOR LAMELLEN TUSSEN DRAAGARMEN
PIECE FINALE POUR LAMES ENTRE BRAS-SUPPORT
END PIECE FOR LOUVRE BETWEEN SUPPORTING ARMS
ENDSTUECK FUER LAMELLEN ZWISCHEN TRAGARMEN

LAMEL LAME LOUVRE LAMELLE		EINDSTUK VASTE LAMELLEN PIECE FINALE LAMES FIXES END PIECE FIXED LOUVRES ENDSTUECK FESTE LAMELLEN	
038.1000.XX		2x 075.6020.XX	
038.1001.XX		2x 075.6021.XX	
038.1002.XX		2x 075.6022.XX	
038.1003.XX		2x 075.6023.XX	
038.1004.XX		2x 075.6024.XX	
038.1005.XX		2x 075.6025.XX	
038.1006.XX		2x 075.6026.XX	

EINDSTUK VOOR LAMELLEN TUSSEN DRAAGARMEN
PIECE FINALE POUR LAMES ENTRE BRAS-SUPPORT
END PIECE FOR LOUVRE BETWEEN SUPPORTING ARMS
ENDSTUECK FUER LAMELLEN ZWISCHEN TRAGARMEN

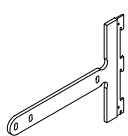
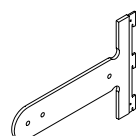
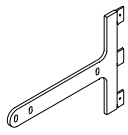
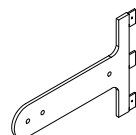
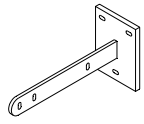
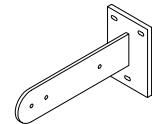
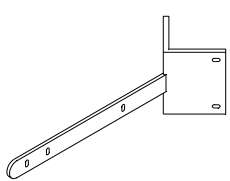
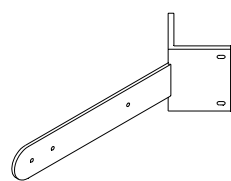
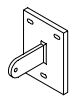
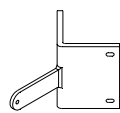
LAMEL LAME LOUVRE LAMELLE	EINDSTUK BEWEEGBARE LAMELLEN PIECE FINALE LAMES MOBILES END PIECE MOVEABLE LOUVRES ENDSTUECK BEWEGLICHE LAMELLEN	MOTOR MOTEUR MOTOR ANTRIEB
038.1000.XX 	075.6020.XX  + 075.6070.XX 	075.6499.--
038.1001.XX 	075.6021.XX  + 075.6071.XX 	075.6499.--
038.1002.XX 	075.6022.XX  + 075.6072.XX 	075.6499.--
038.1003.XX 	075.6023.XX  + 075.6073.XX 	075.6499.--
038.1004.XX 	075.6024.XX  + 075.6074.XX 	075.6500.--
038.1005.XX 	075.6025.XX  + 075.6075.XX 	075.6500.--
038.1006.XX 	075.6026.XX  + 075.6076.XX 	075.6500.--

EINDSTUK VOOR LAMELLEN IN LAMELHOUDER
PIECE FINALE POUR LAMES DANS PORTE LAMES
END PIECE FOR LOUVRE IN LOUVRE HOLDER
ENDSTUECK FESTE LAMELLEN

LAMEL LAME LOUVRE LAMELLE	EINDSTUK VASTE LAMELLEN PIECE FINALE LAMES FIXES END PIECE FIXED LOUVRES ENDSTUECK FUER LAMELLEN IN LAMELLENHALTER
038.1003.XX 	075.6033.XX 
038.1004.XX 	075.6034.XX 
038.1005.XX 	075.6035.XX 

GEVELANKER
ANCRAGE MUR-RIDEAU
BRACKET CURTAIN WALL
FASSADEANKER

* Max. moment in kNmm

075.6163.XX			075.6161.XX		
075.6211.XX		133 *	075.6213.XX		200 *
075.6200.XX		320 *	075.6201.XX		320 *
075.6202.XX		260 *	075.6203.XX		260 *
MUURBEVESTIGING FIXATION MURALE WALL BRACHETS MAUERBEFESTIGUNG					
075.6215.XX		600 *	075.6216.XX		1200 *
075.6217.XX		600 *	075.6218.XX		1200 *
075.6170.XX			075.6171.XX		

Opmerking : Looprooster, draadstang, muurankers steeds laten berekenen door officiële structureel ingenieur.
Alle bouten (horizontaal + verticaal) steeds borgen!

Remarque : Il faut faire calculer le caillebotis, la barre filetée et l'ancrage mural par un ingénieur structurel officiel
Toutes les vis (horizontal et vertical) doivent être bloquées !

Remark : One should have calculated the walkway, the threaded rod and the wall anchoring by an official structural engineer
All bolts (horizontal and vertical) must be locked !

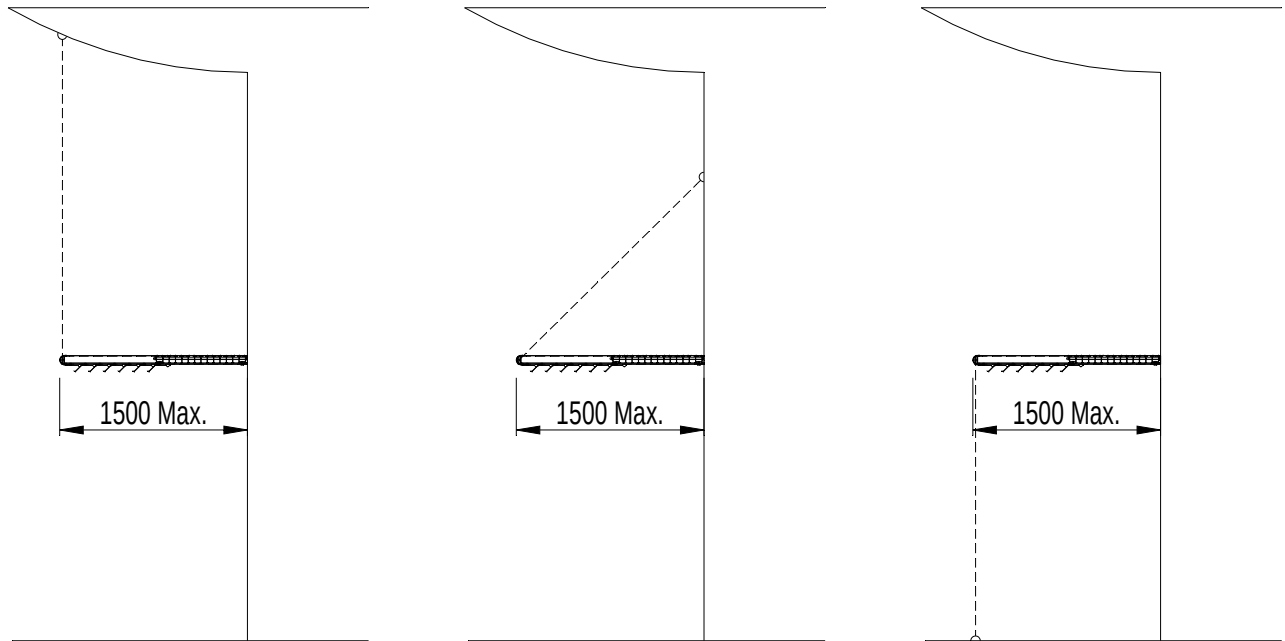
Anmerkung : Die Laufroste, die Gewindestange sowie das Maueranker sollen von einem offiziellen strukturellen Ingenieur berechnet werden
Alle Bolzen (waagrecht und senkrecht) sollen gesichert werden !

Zonder steunstangen 1500mm.
Met steunstangen 2000mm.

Sans barres de support 1500mm.
Avec barres de support 2000mm.

Without support rods 1500mm
With support rods 2000mm

Ohne Stützstangen 1500mm.
Mit Stützstangen 2000mm



Algemene opmerking :

Elke typische situatie en specifiek project dient door een officiële structureel ingenieur berekend/bekrachtigd te worden.

Remarque générale :

Chaque situation typique et projet spécifique doit être calculé/validé par un ingénieur structurel officiel.

Aanbeveling :

Afmetingen looprooster : Min. 650mm / Max. 1500mm
Wij bevelen plaatsingssteunen aan (boven 1500mm)
Onderworpen aan berekening met steunstangen (tot 2000mm)

Remarque générale :

Largeur du caillebotis : Min. 650mm - Max. 1500mm
Nous recommandons des supports de montage (au-dessus de 1500mm)
Sujet aux calculs avec barres de support (jusqu'à 2000mm)

General remark :

Every typical situation and specific project has to be calculated / validated by an official structural engineer.

Allgemeine Anmerkung :

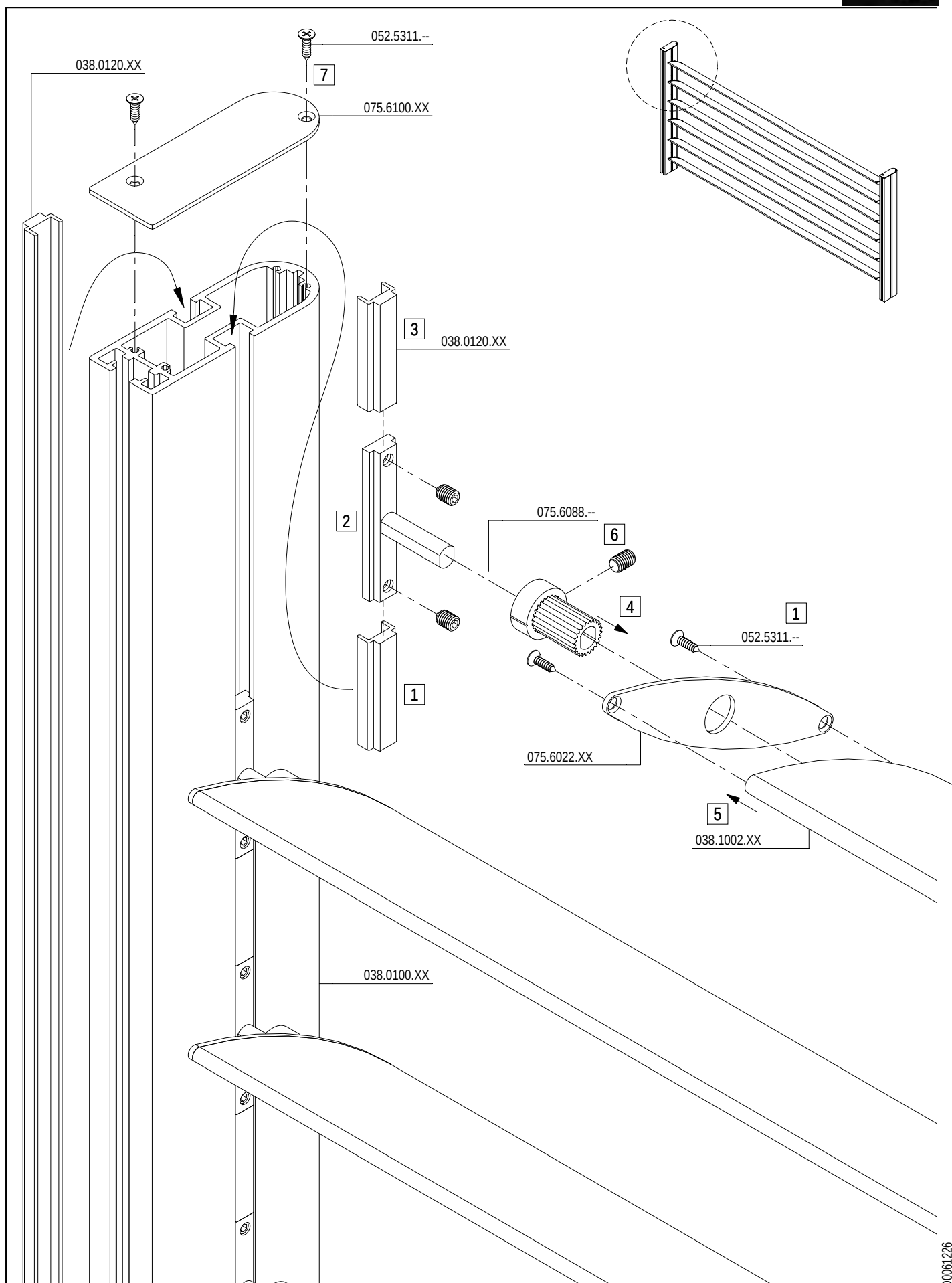
Jede typische Situation und spezifisches Projekt soll von einem offiziellen strukturellen Ingenieur berechnet bekräftigt werden.

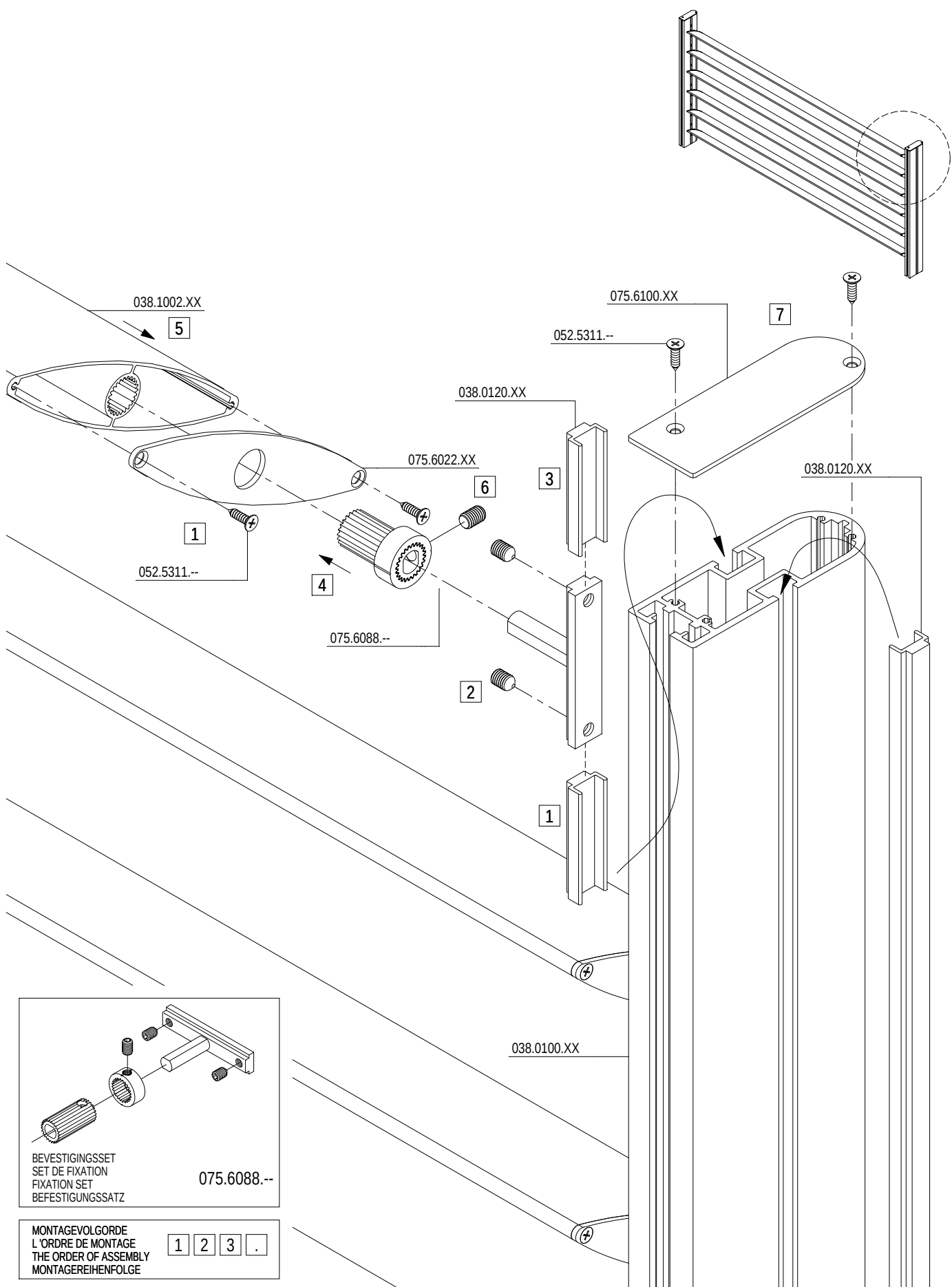
General remark :

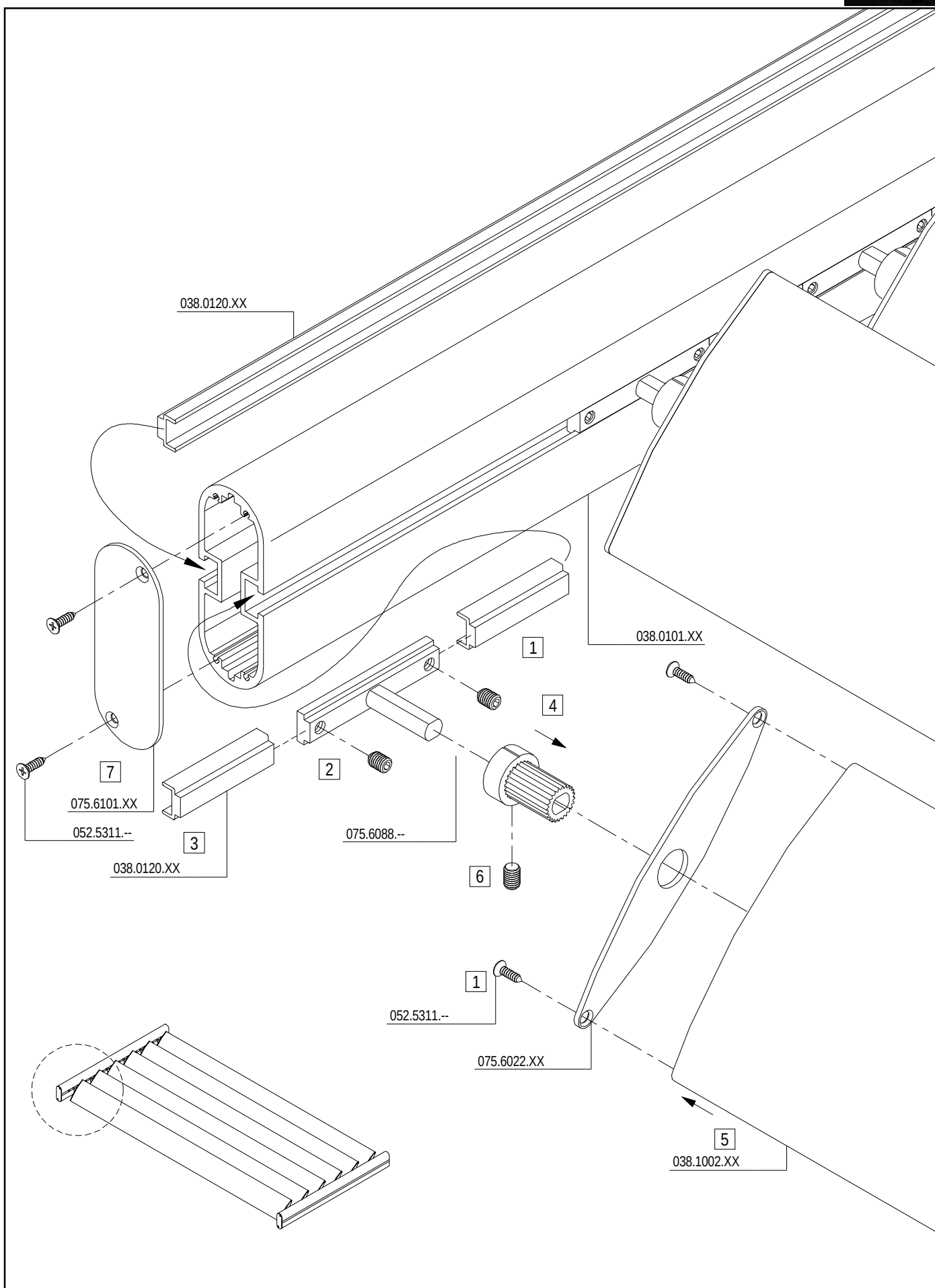
Walkway width : Min. 650mm / Max. 1500mm
We recommend putting supports! (above 1500mm)
Subject to calculations with support rods (to 2000mm)

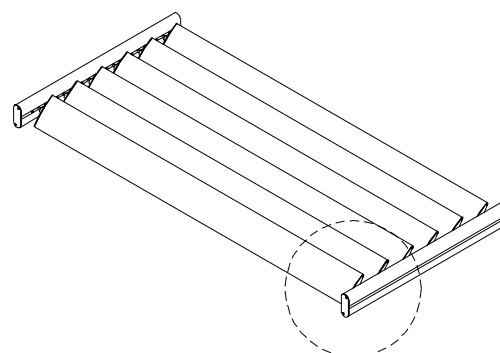
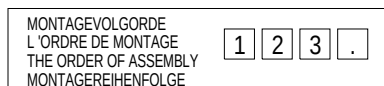
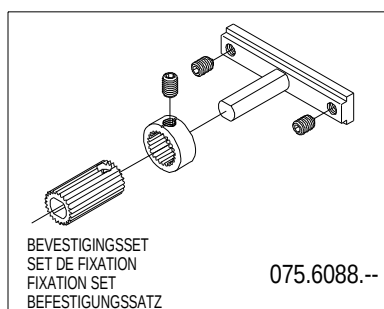
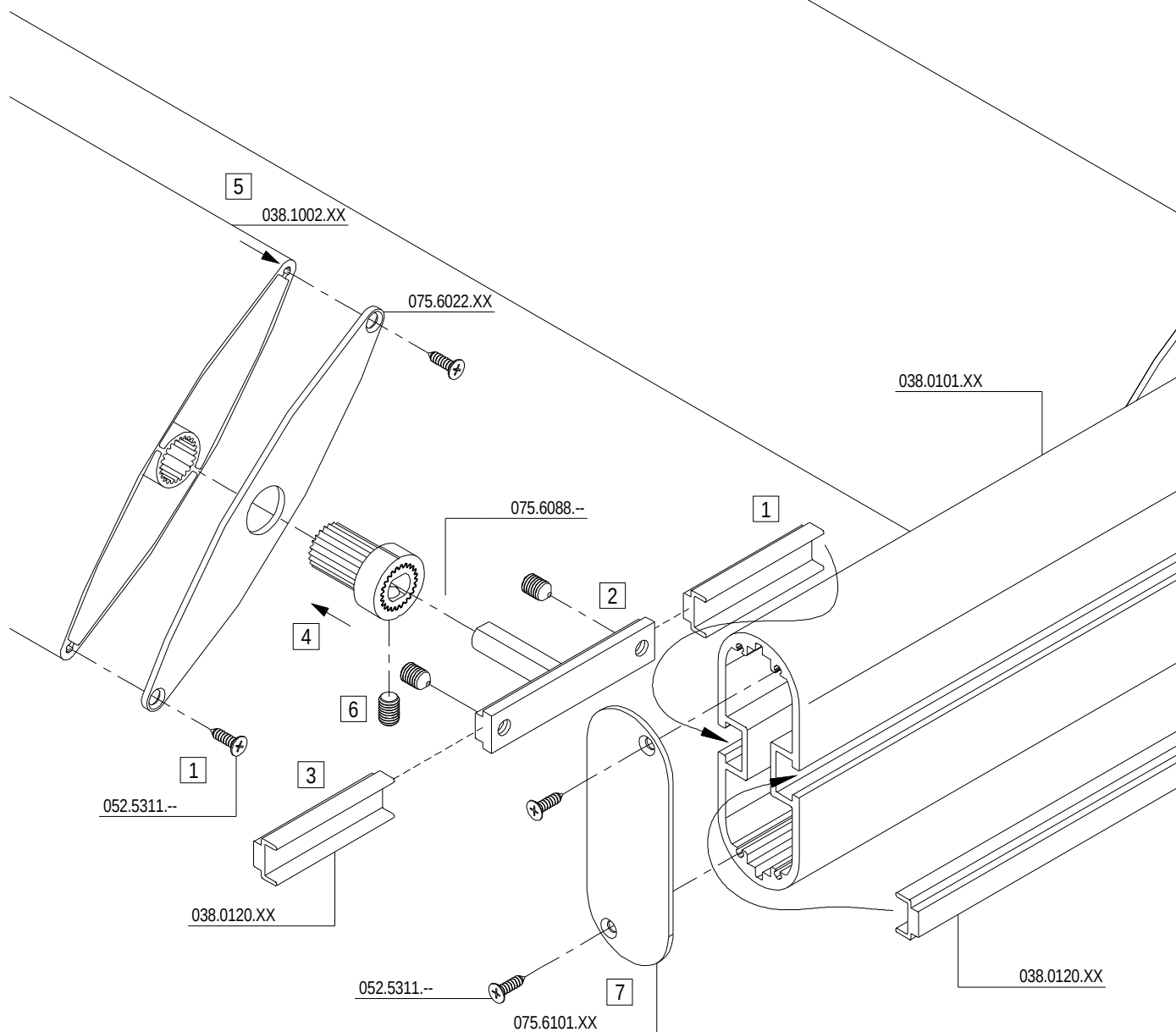
Allgemeine Anmerkung :

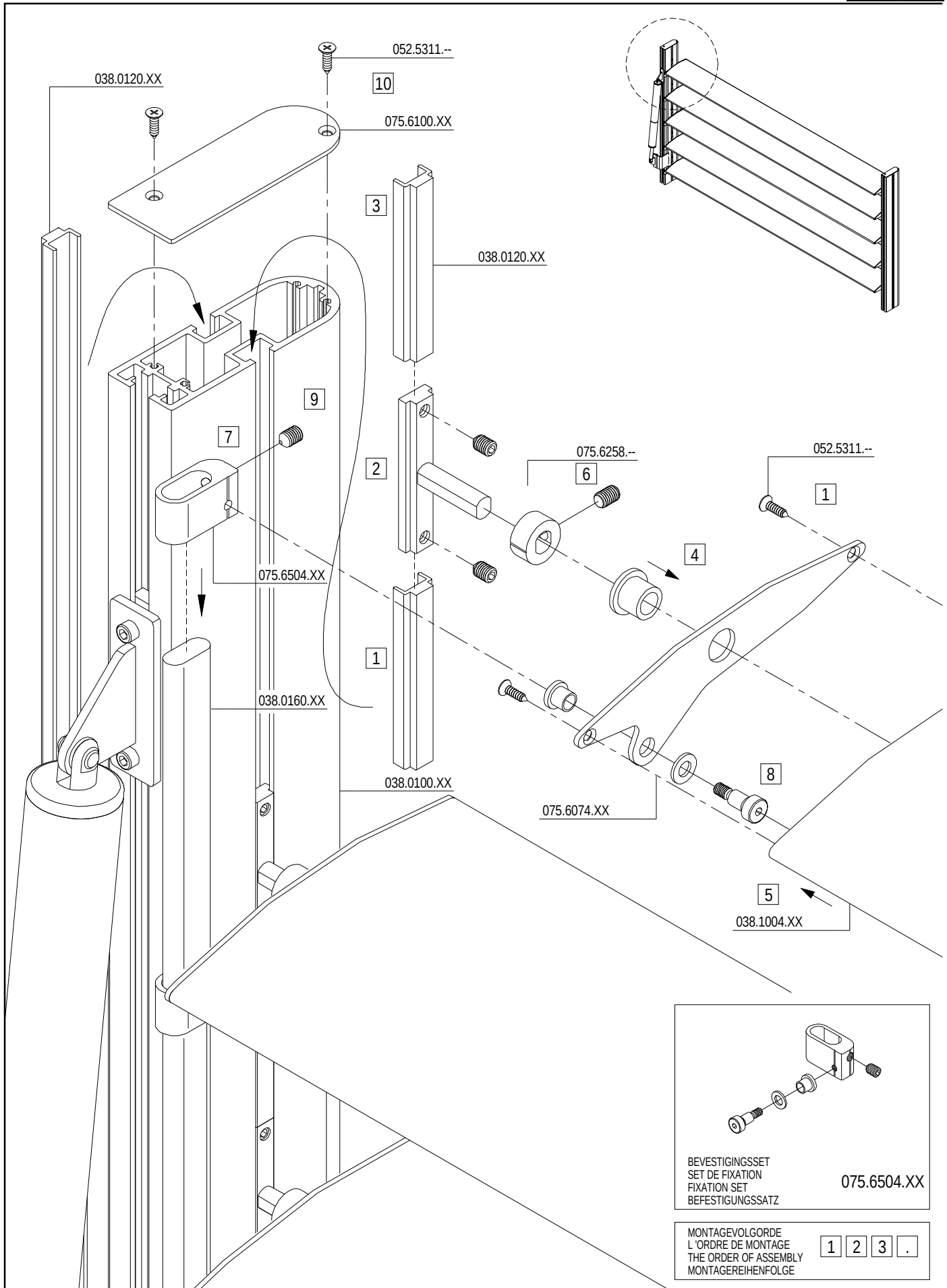
Breite des Laufrost : Min. 650mm - Max. 1500mm
Wir empfehlen die Anwendung von Montagestützen (höher als 1500mm)
Berechnung mit Stützstangen (bis 2000mm)

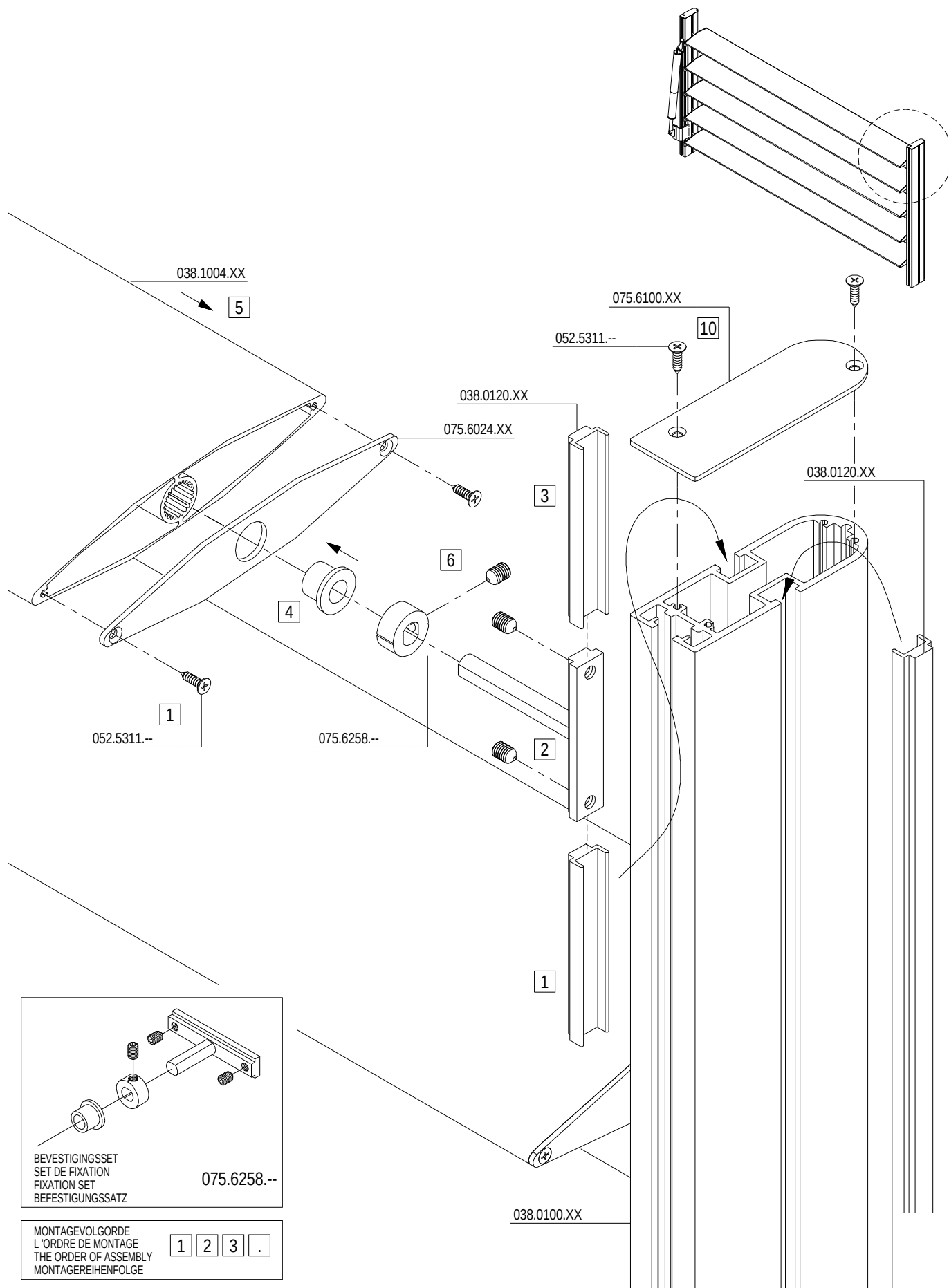


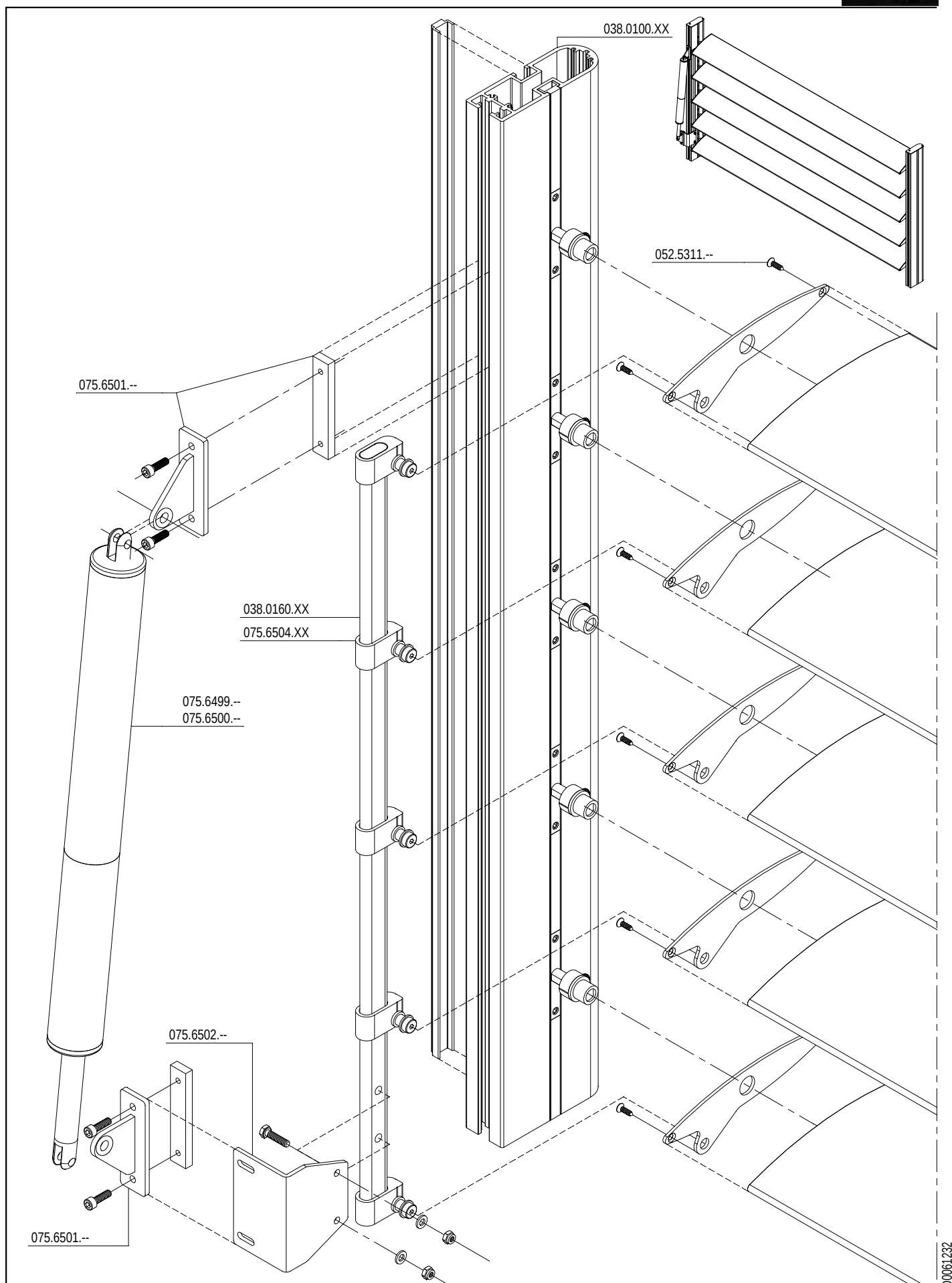


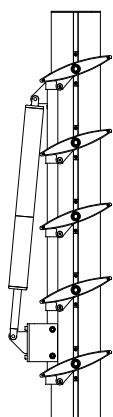
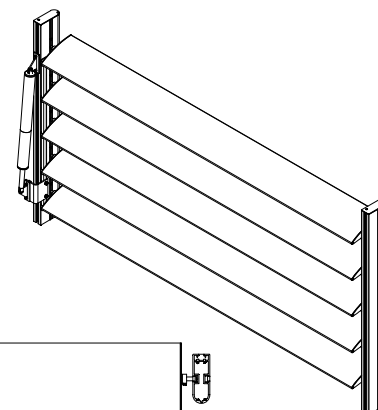
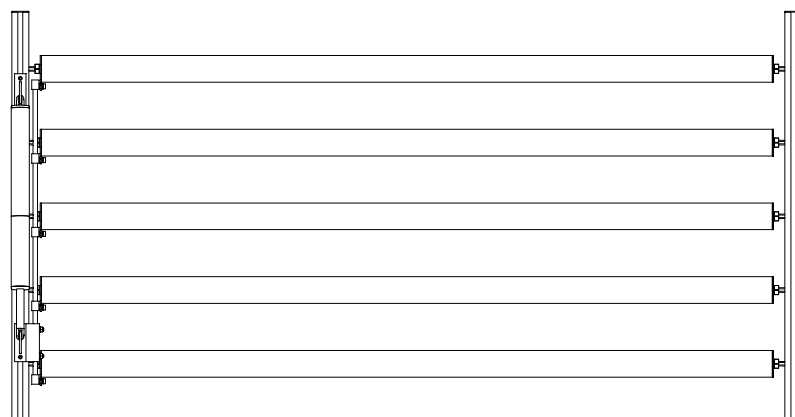
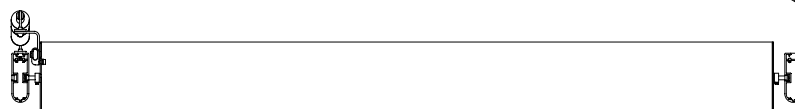
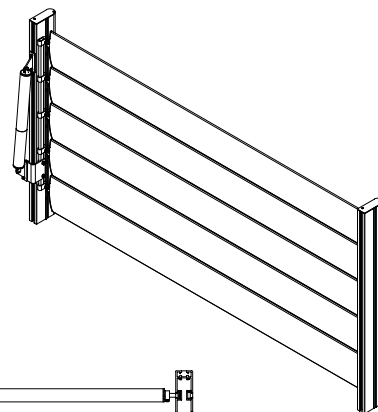
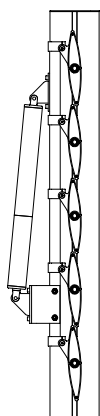


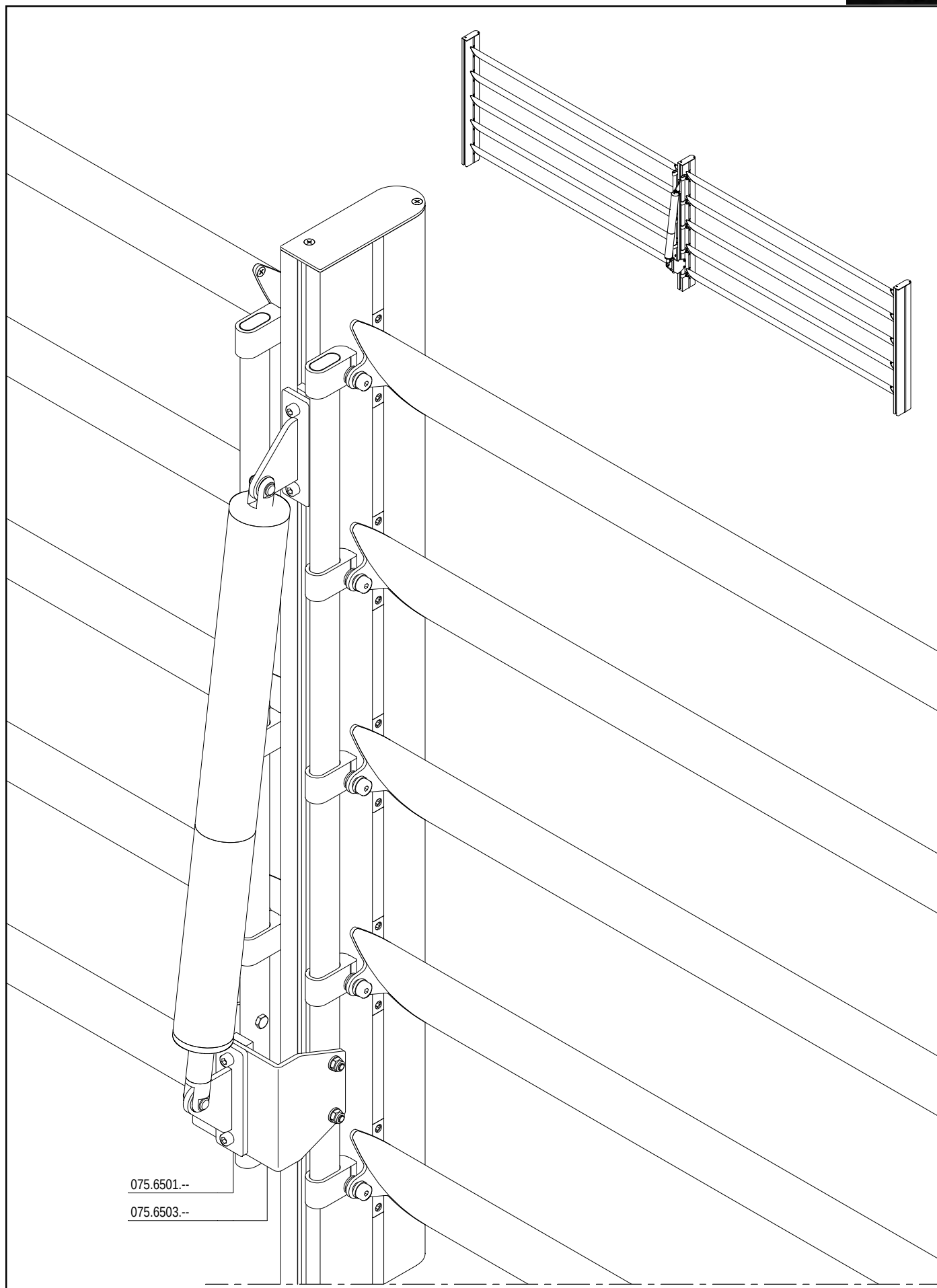


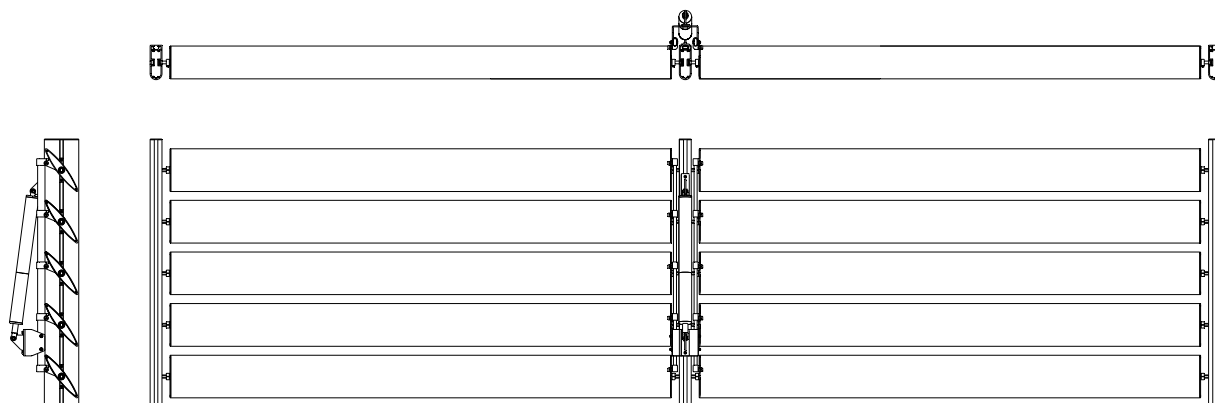


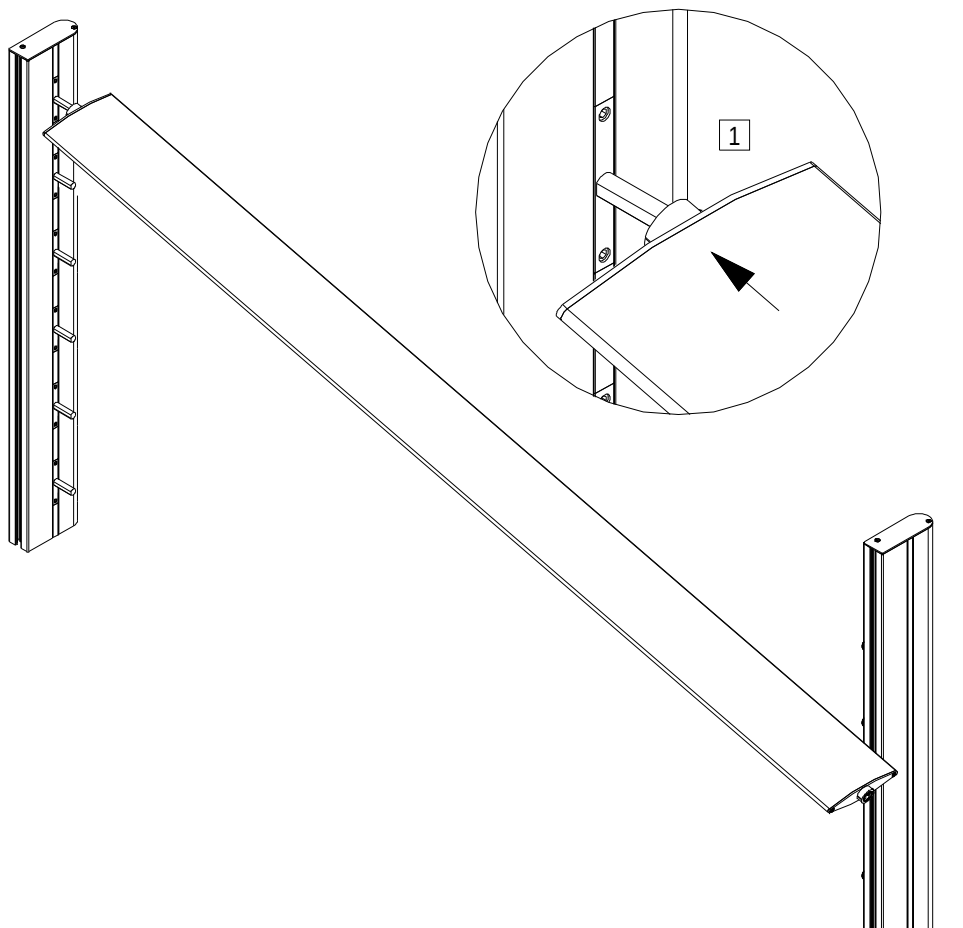
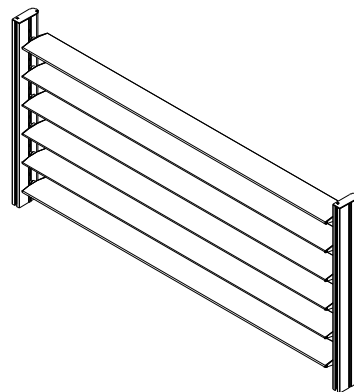


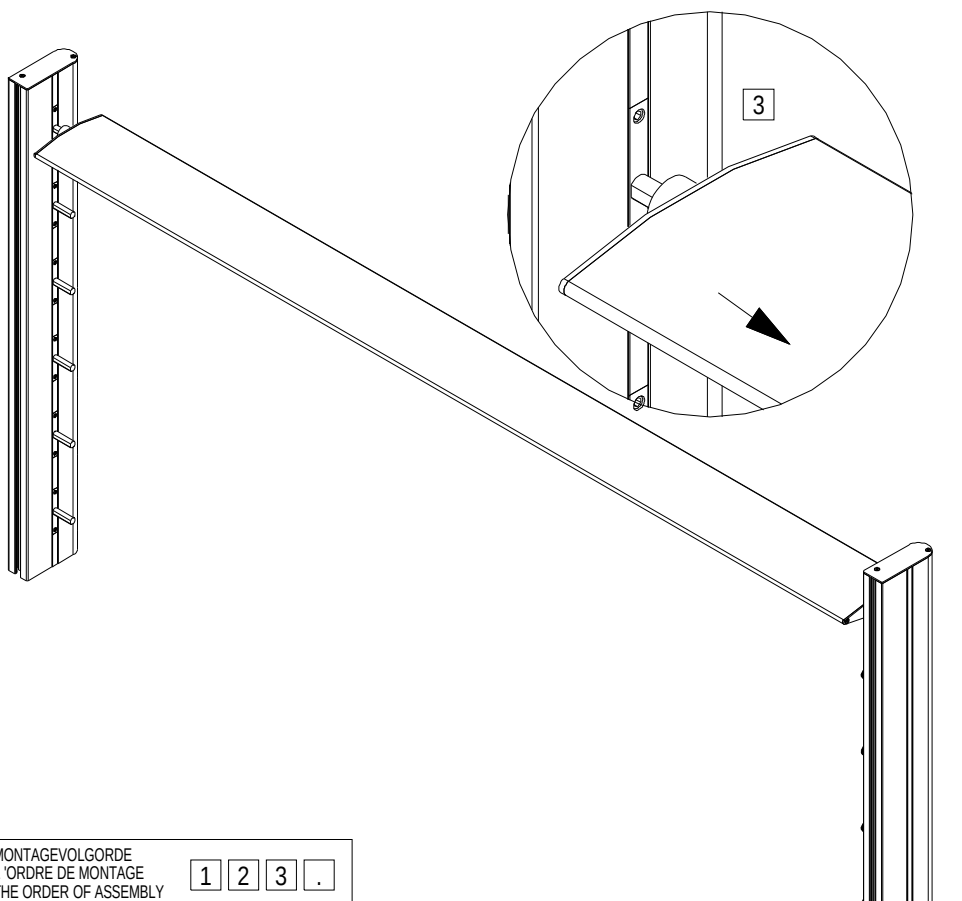
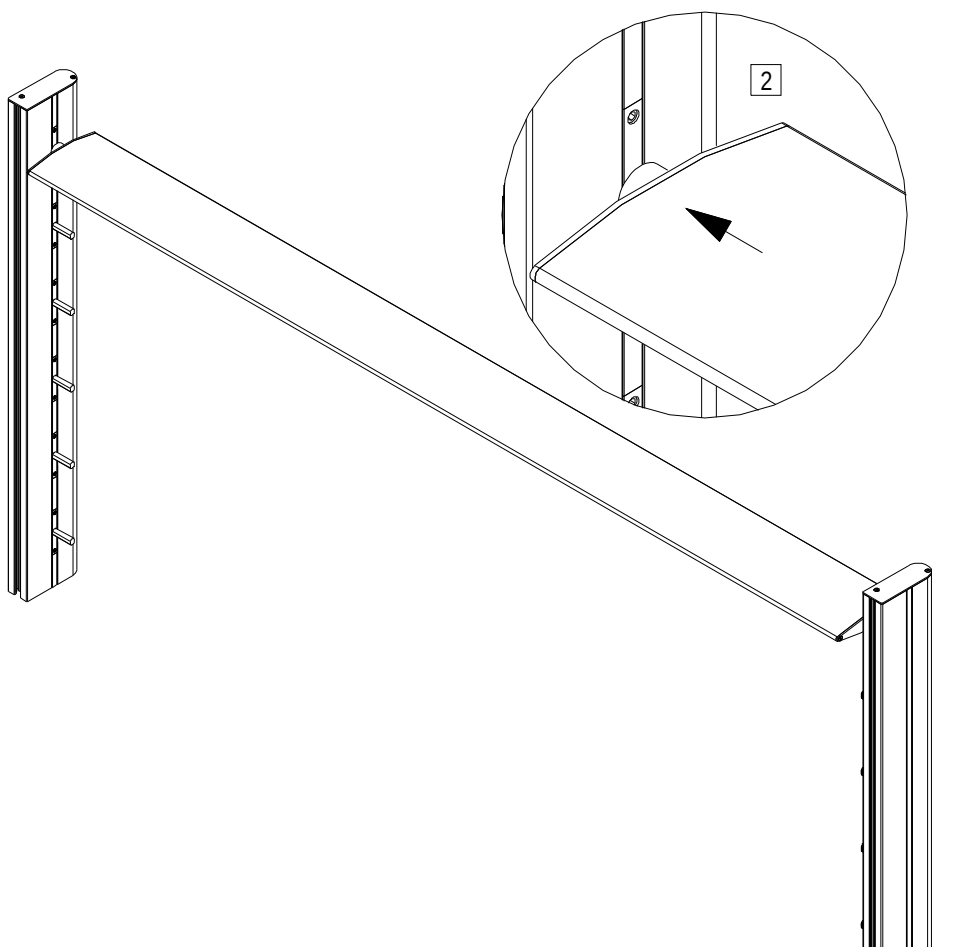








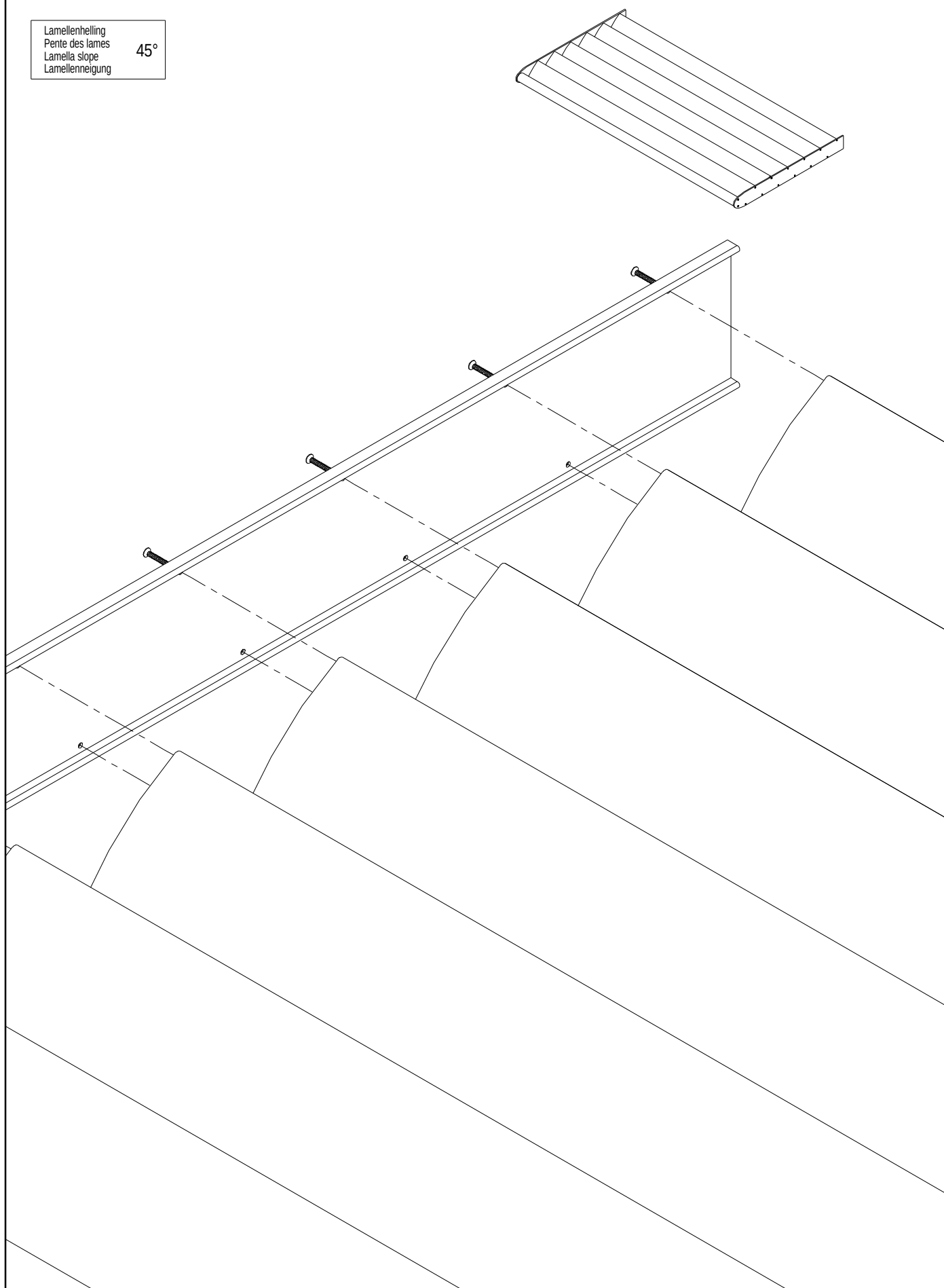


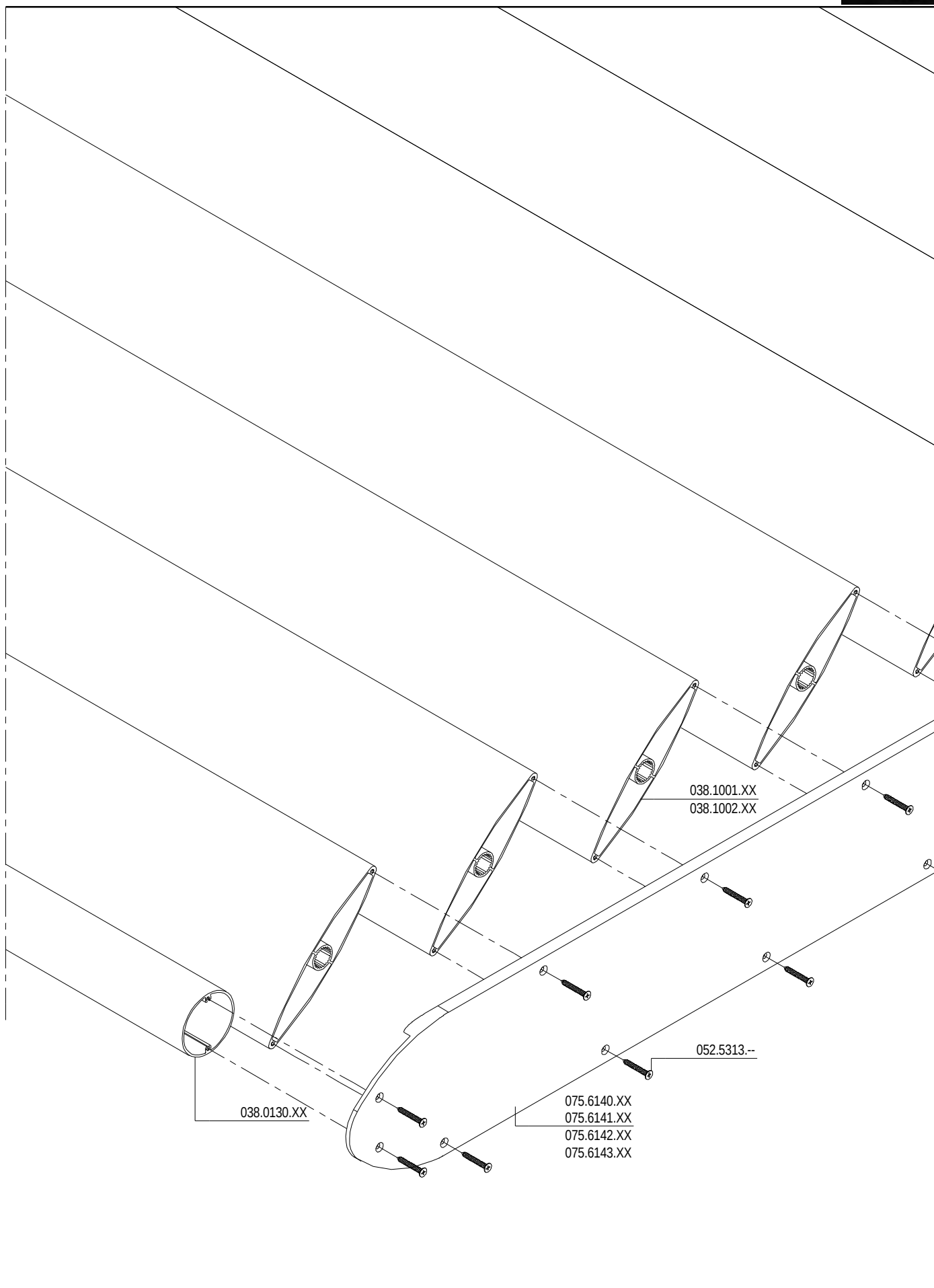


MONTAGEVOLGORDE	1	2	3	.
L'ORDRE DE MONTAGE				
THE ORDER OF ASSEMBLY				
MONTAGEREIHENFOLGE				

Lamellenhelling
Pente des lames
Lamella slope
Lamellenneigung

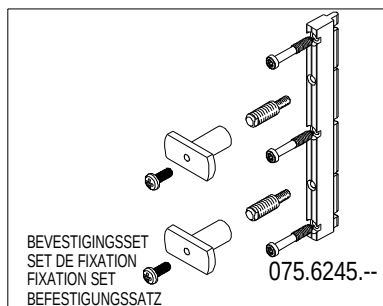
45°



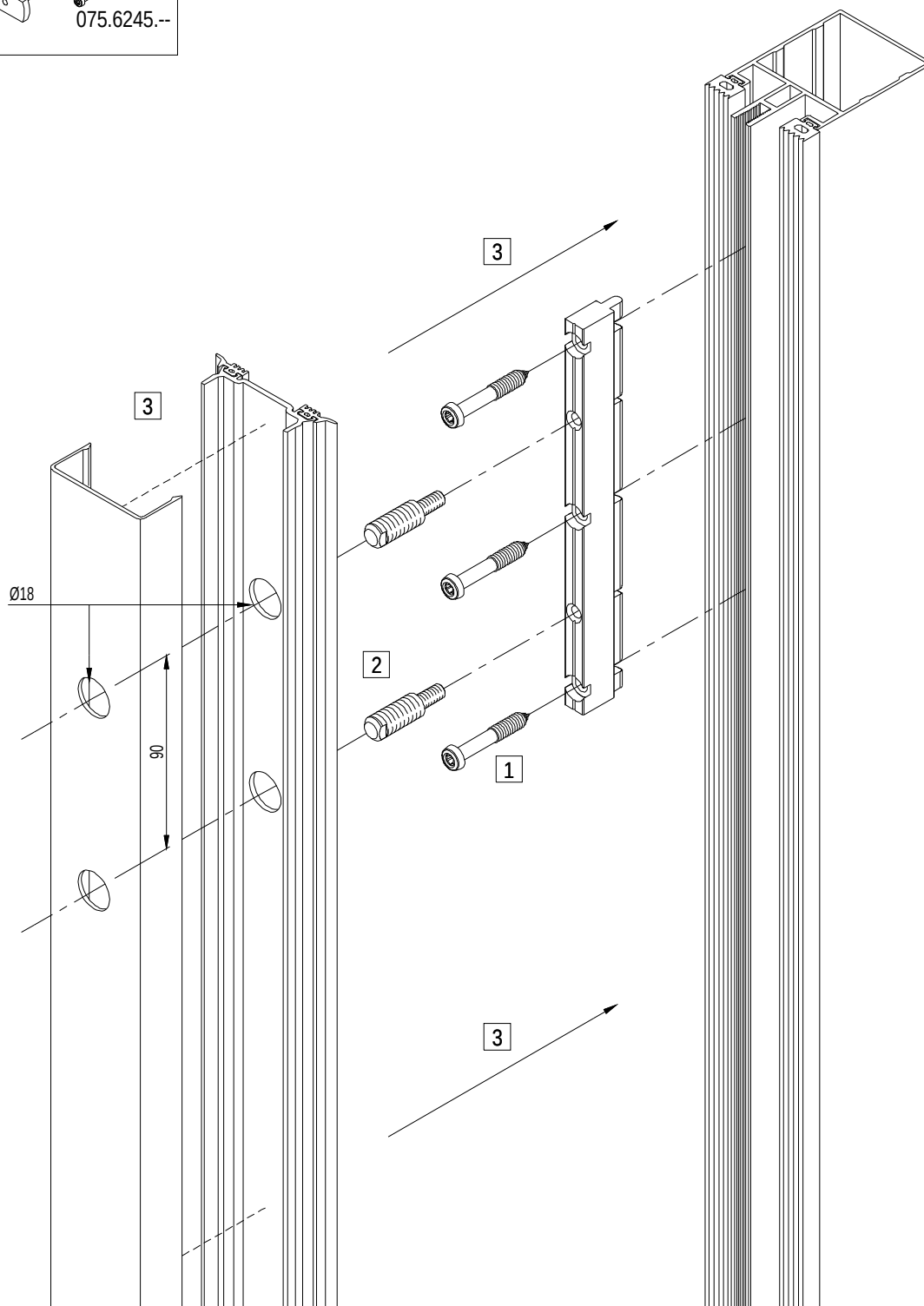


MONTAGEVOLGORDE
L'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .

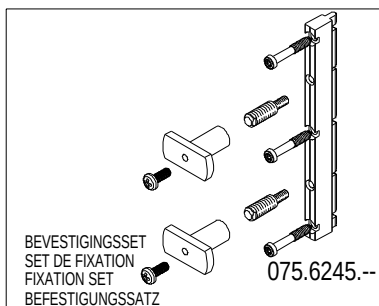


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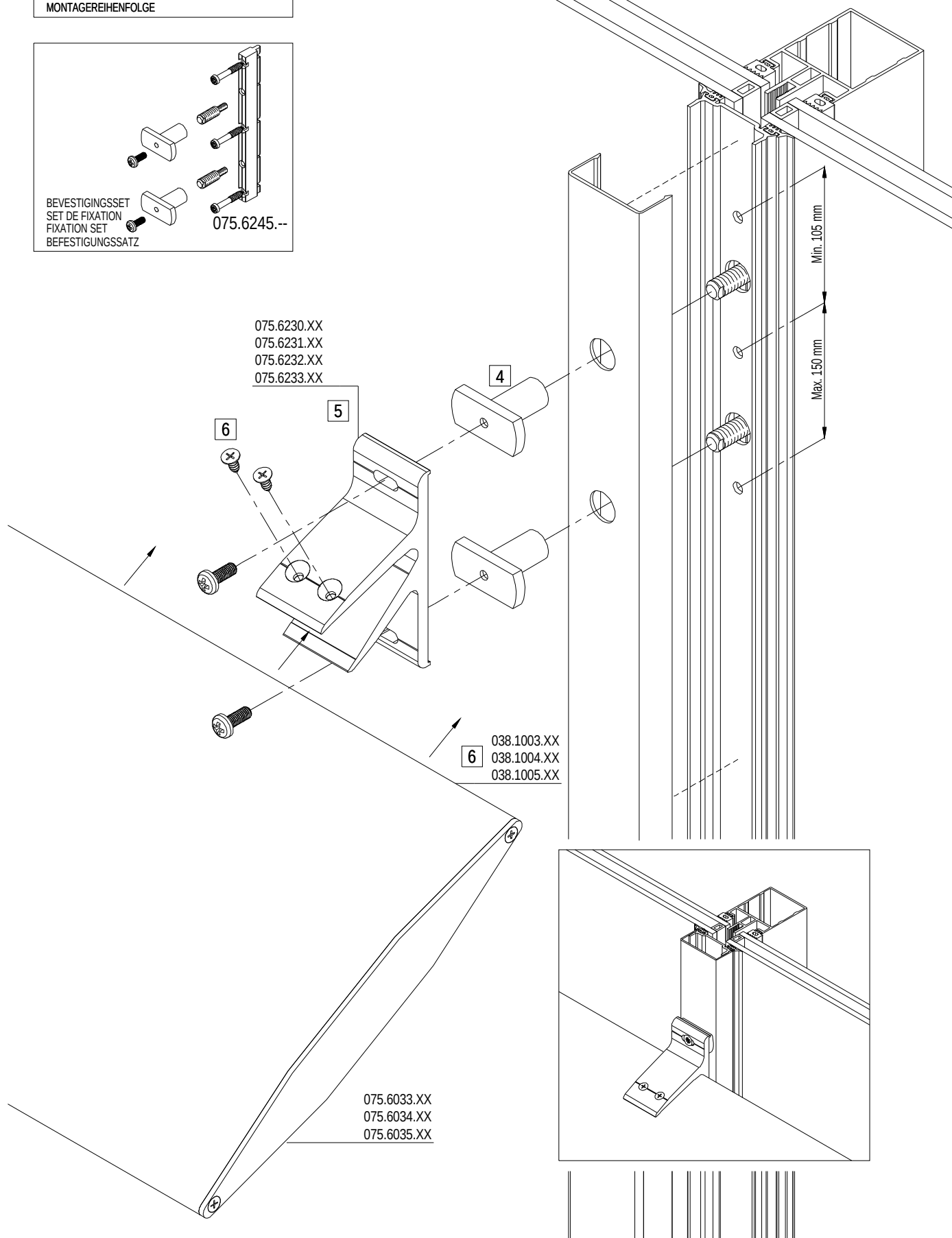


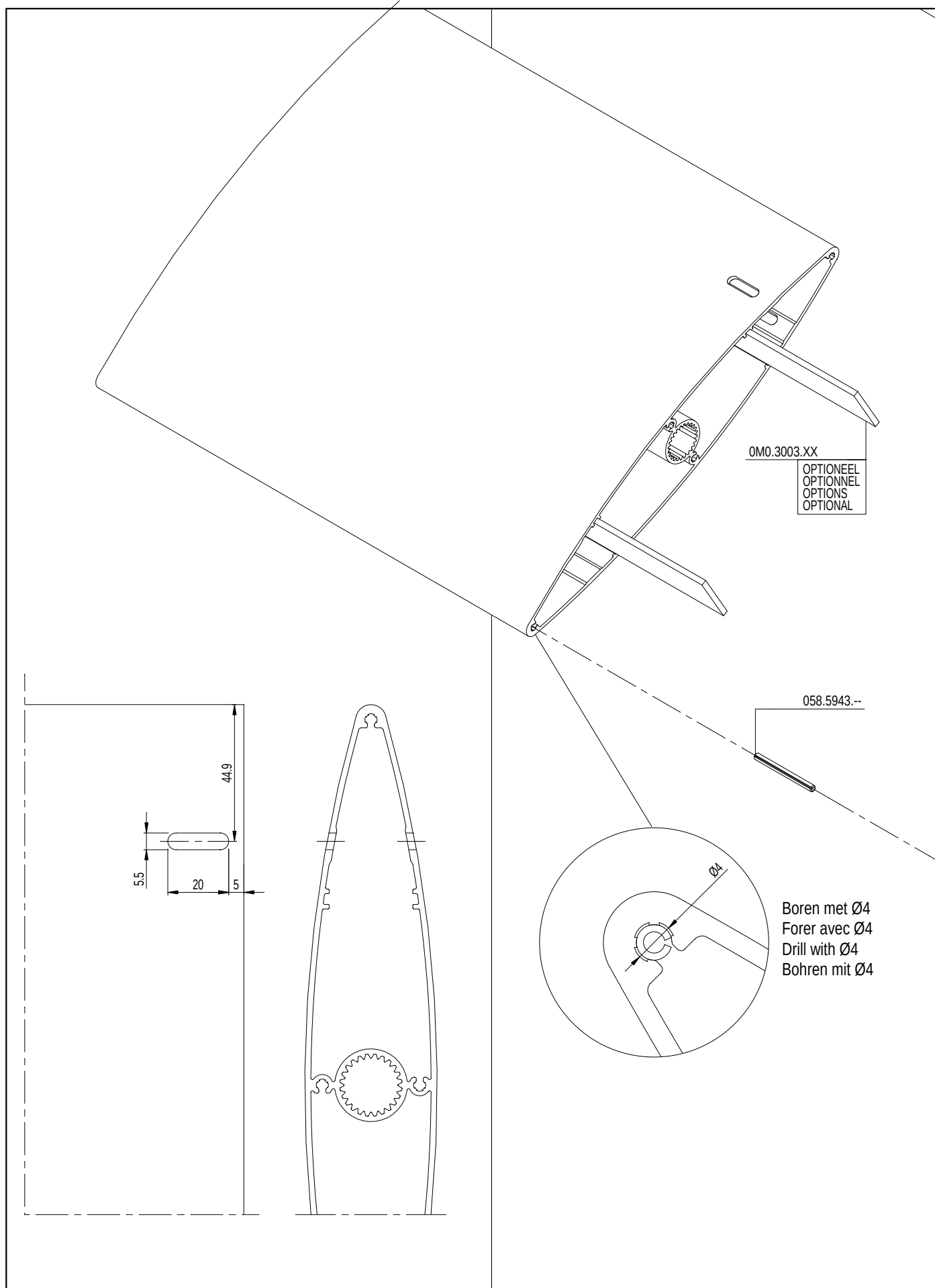
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THE ORDER OF ASSEMBLY
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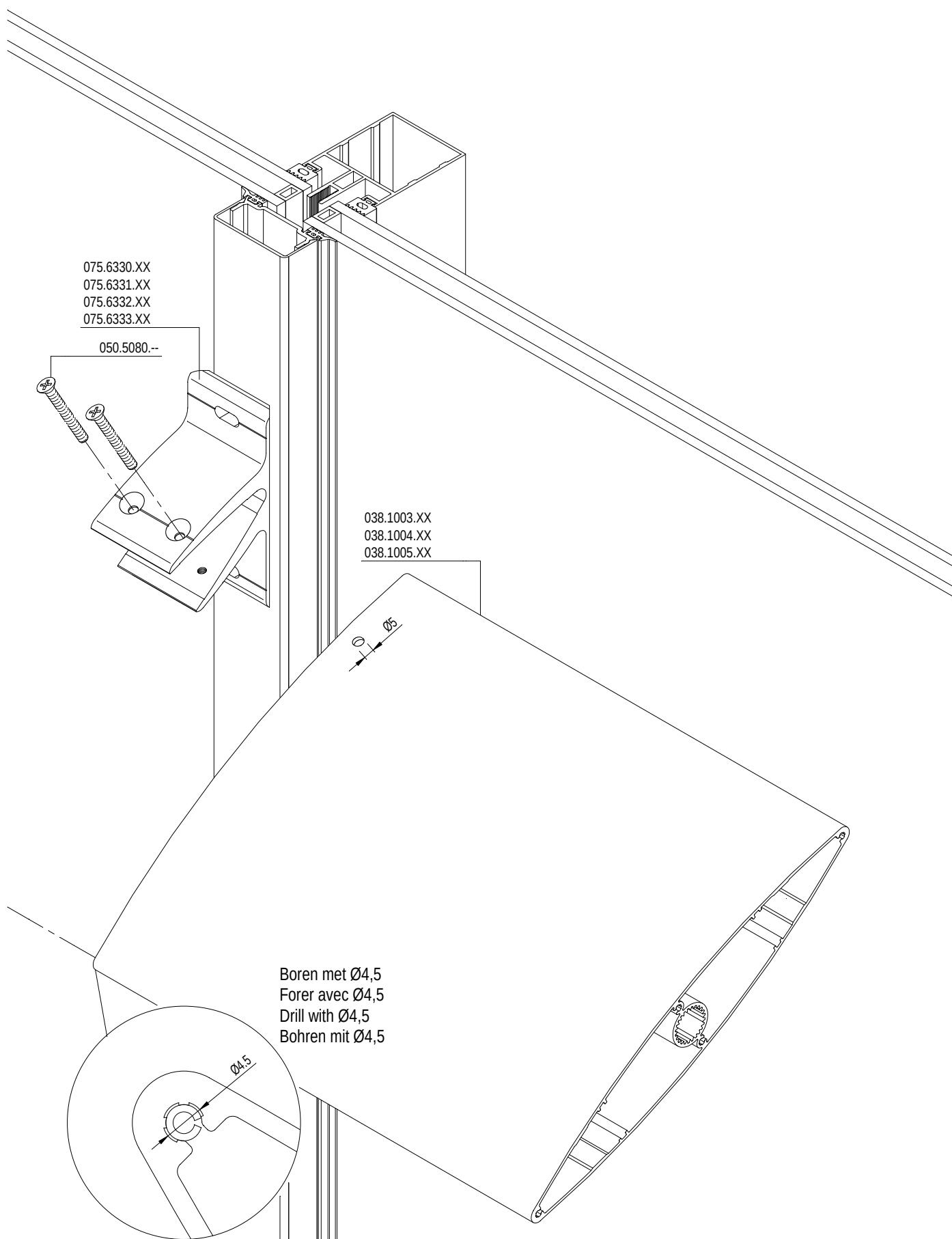
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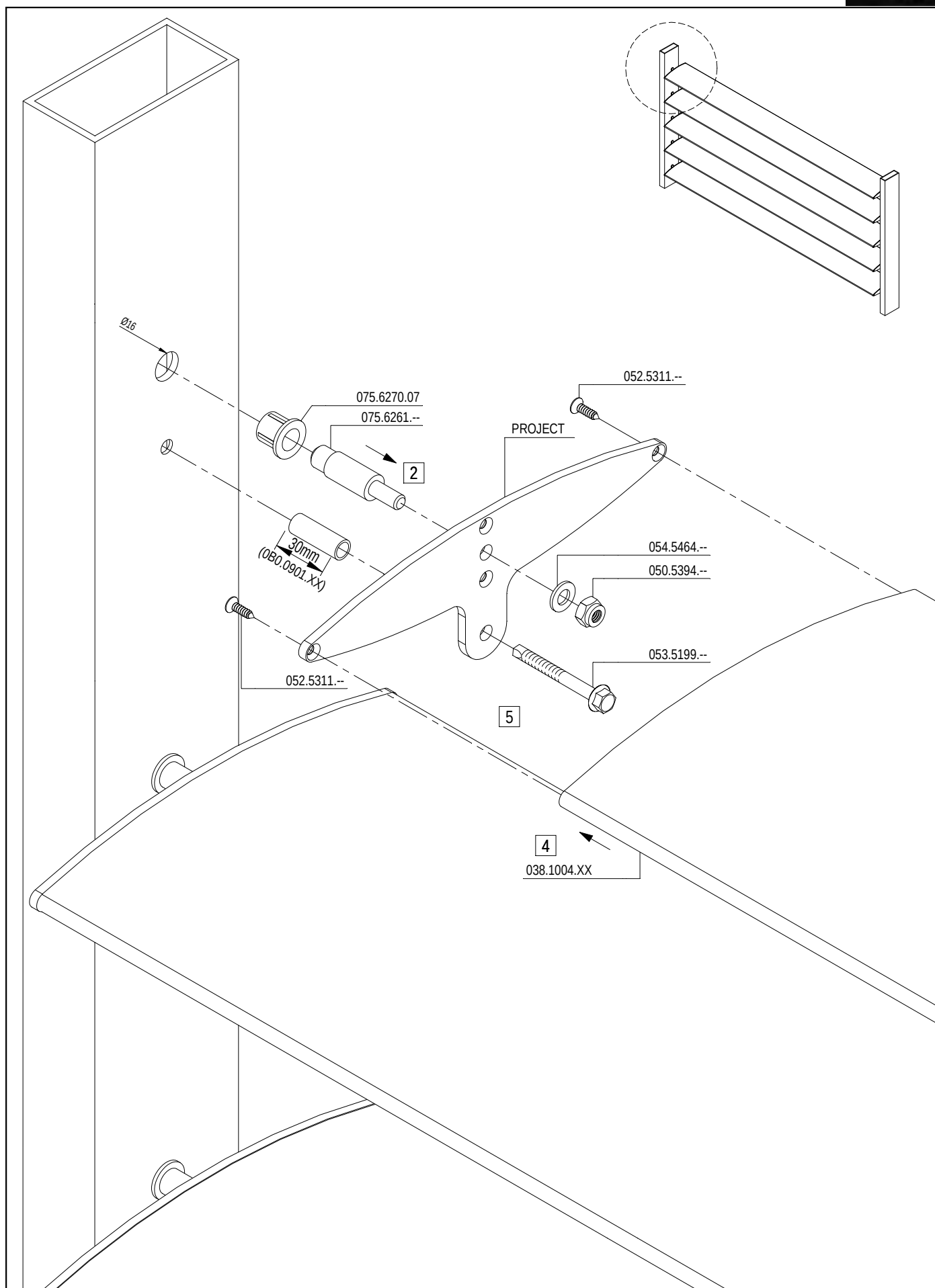


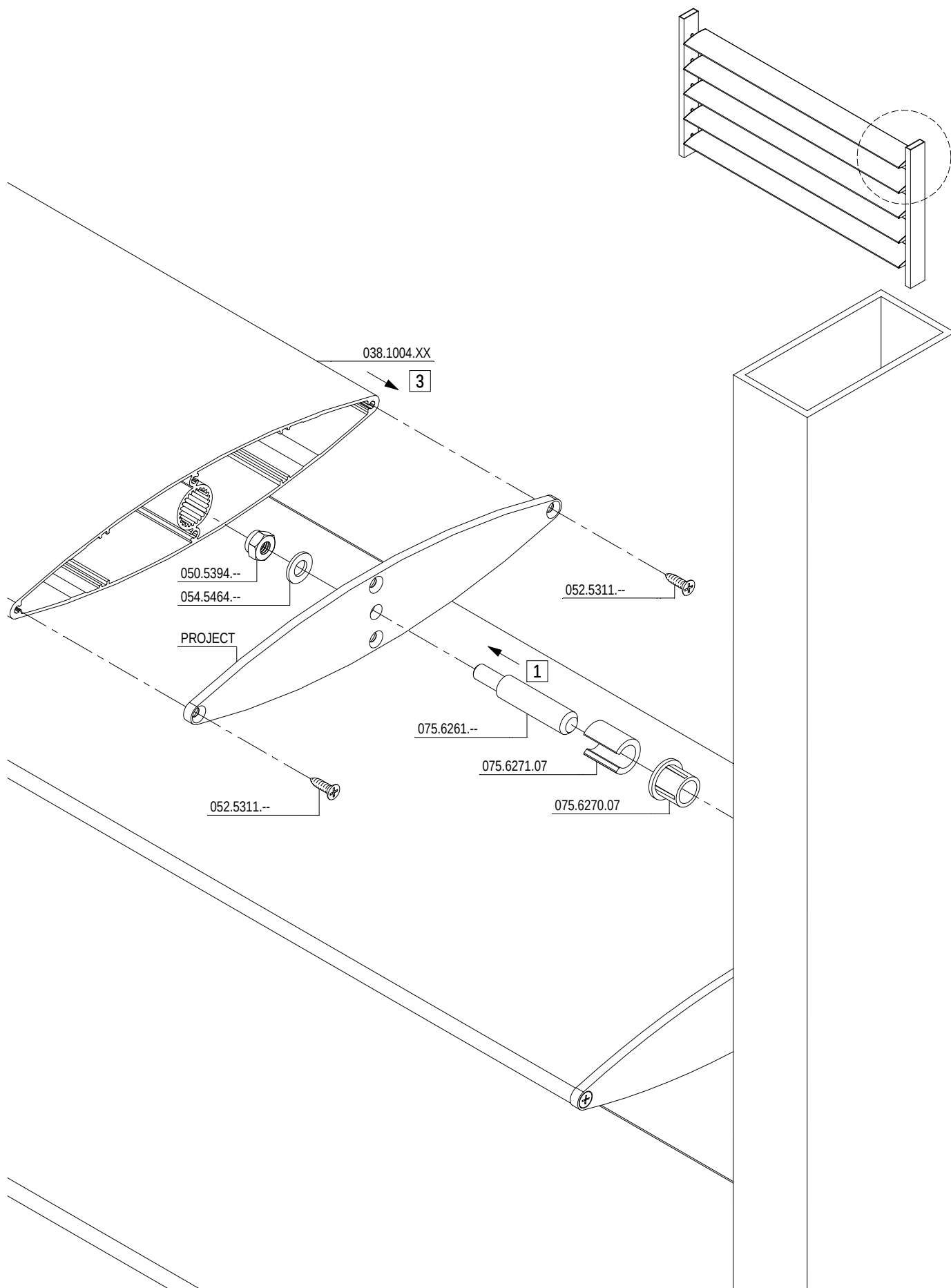
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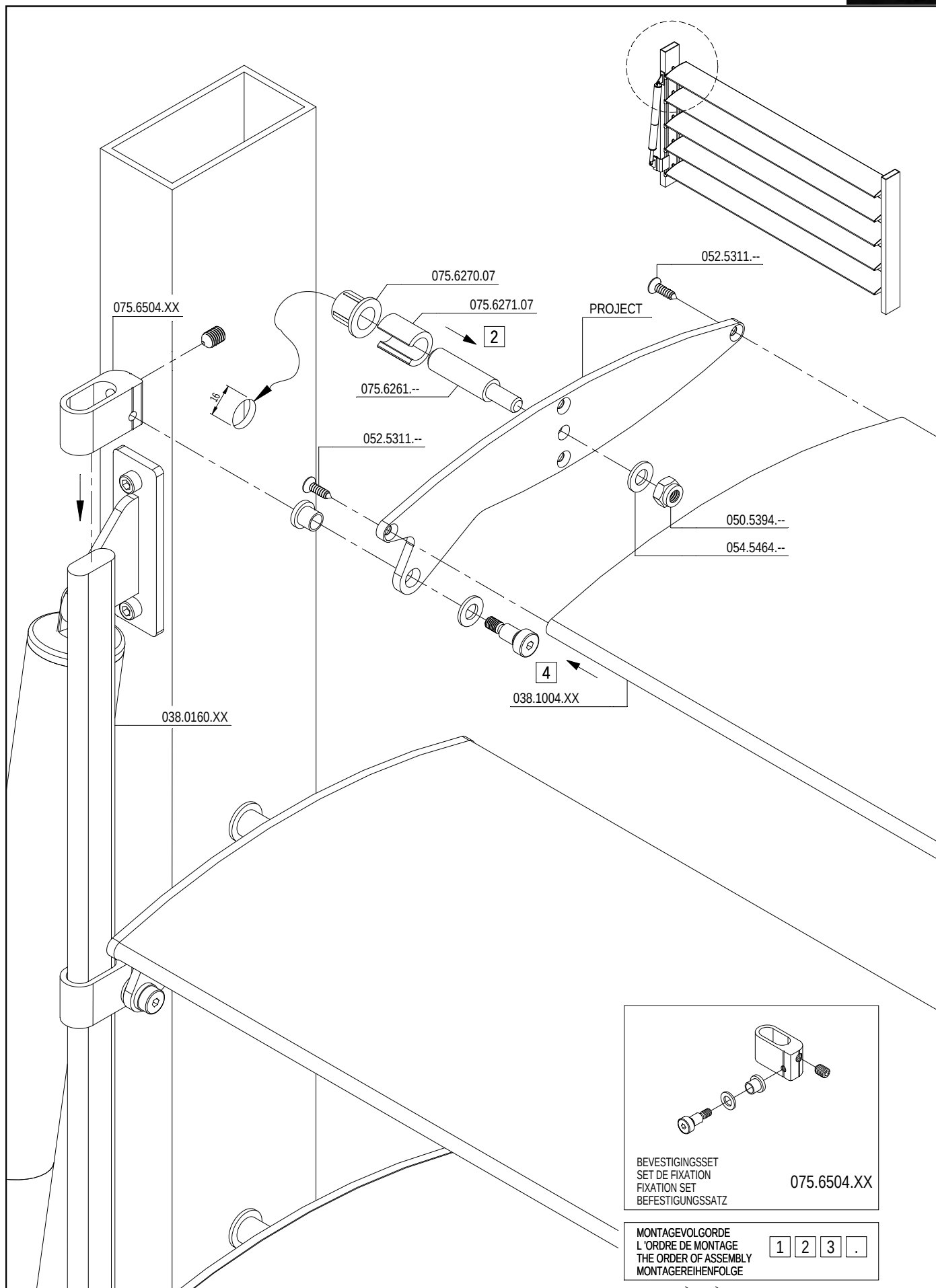


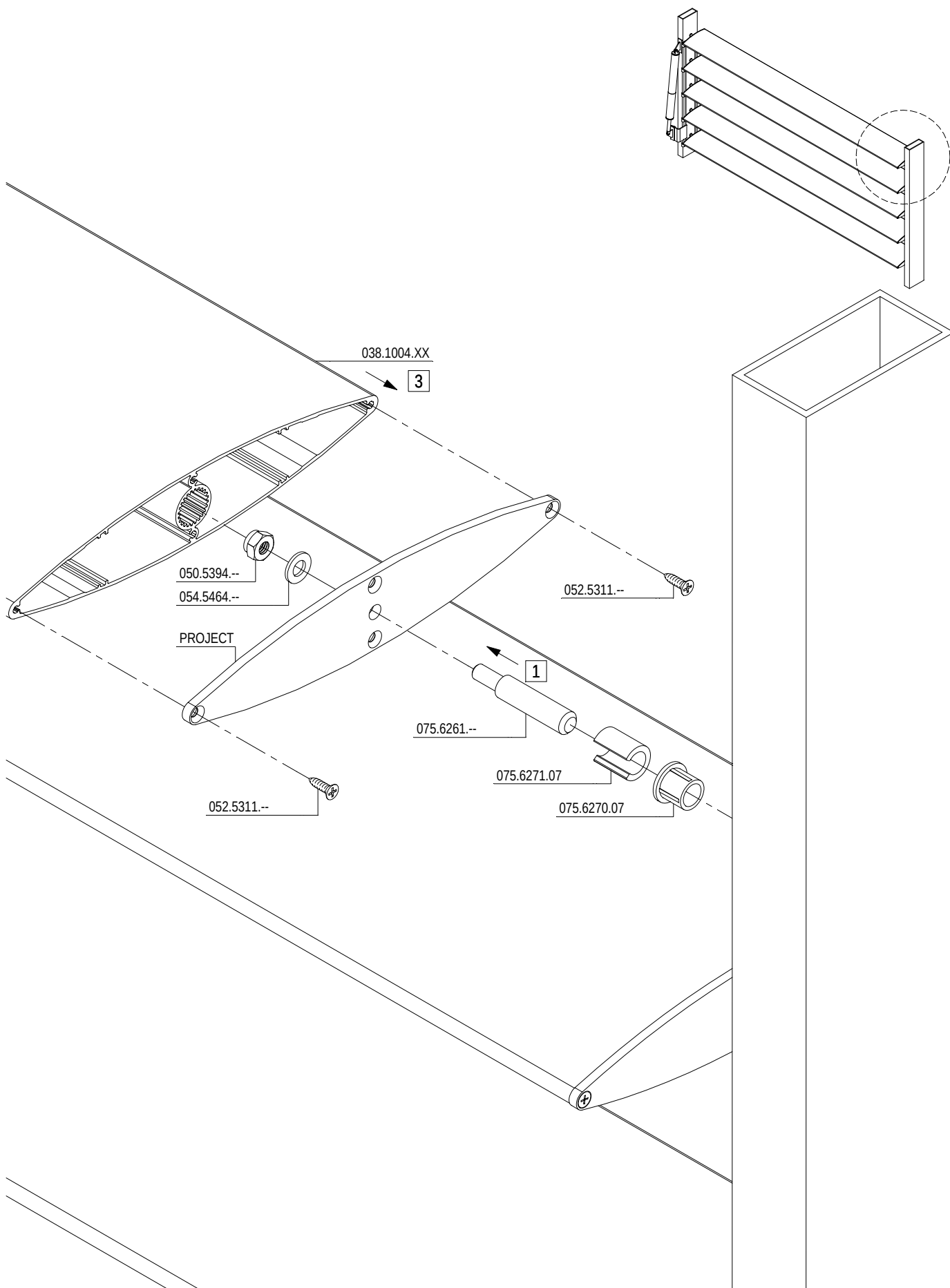


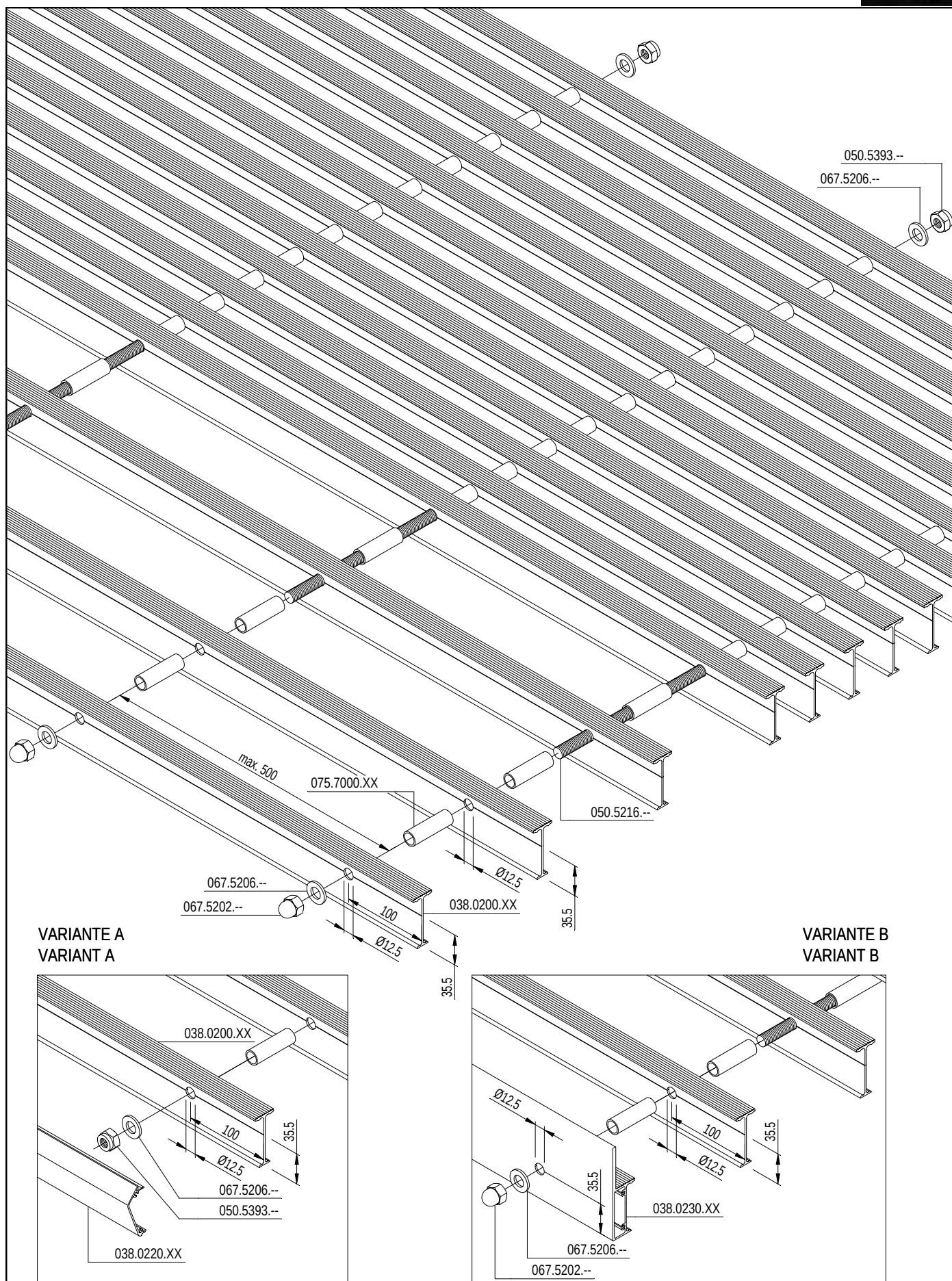


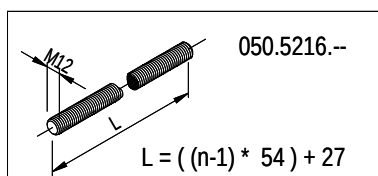
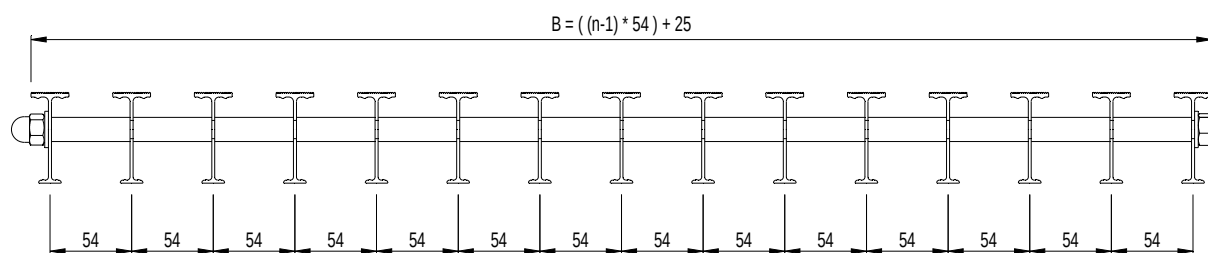




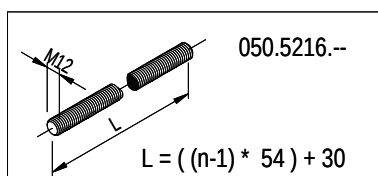
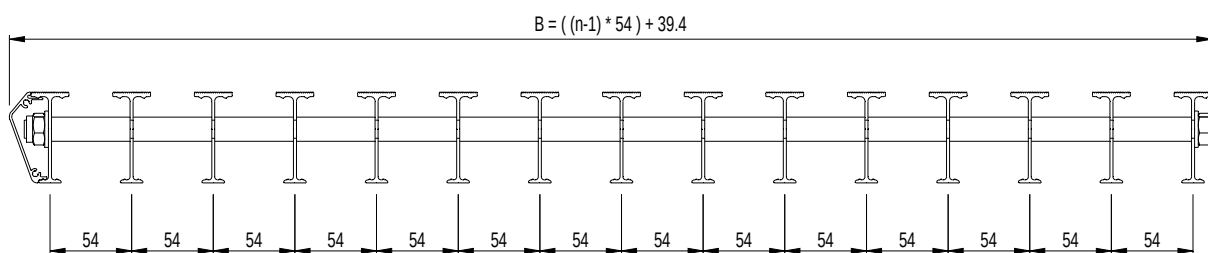






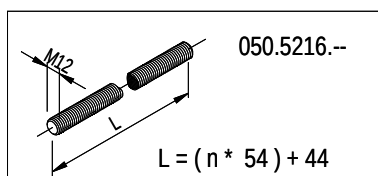
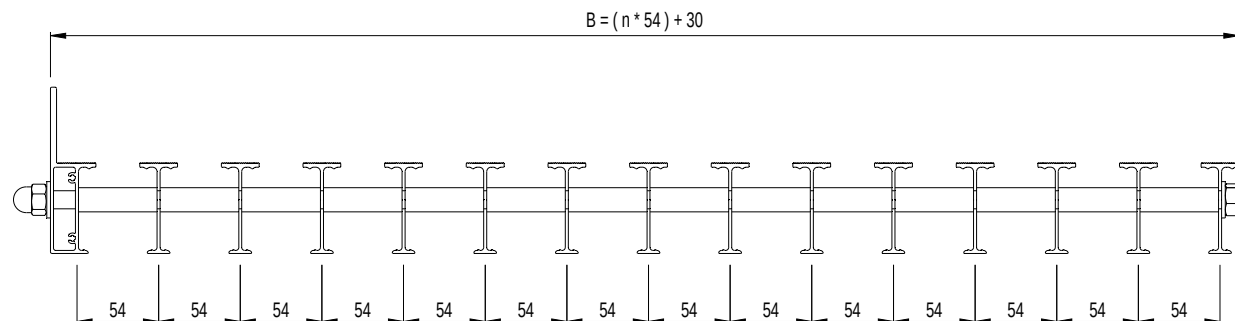


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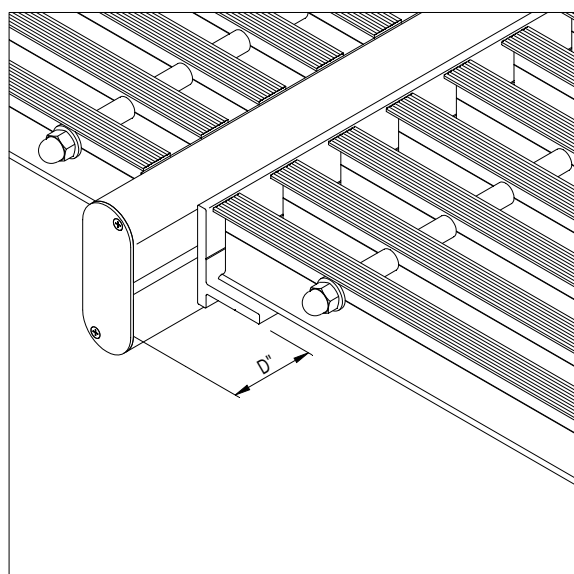
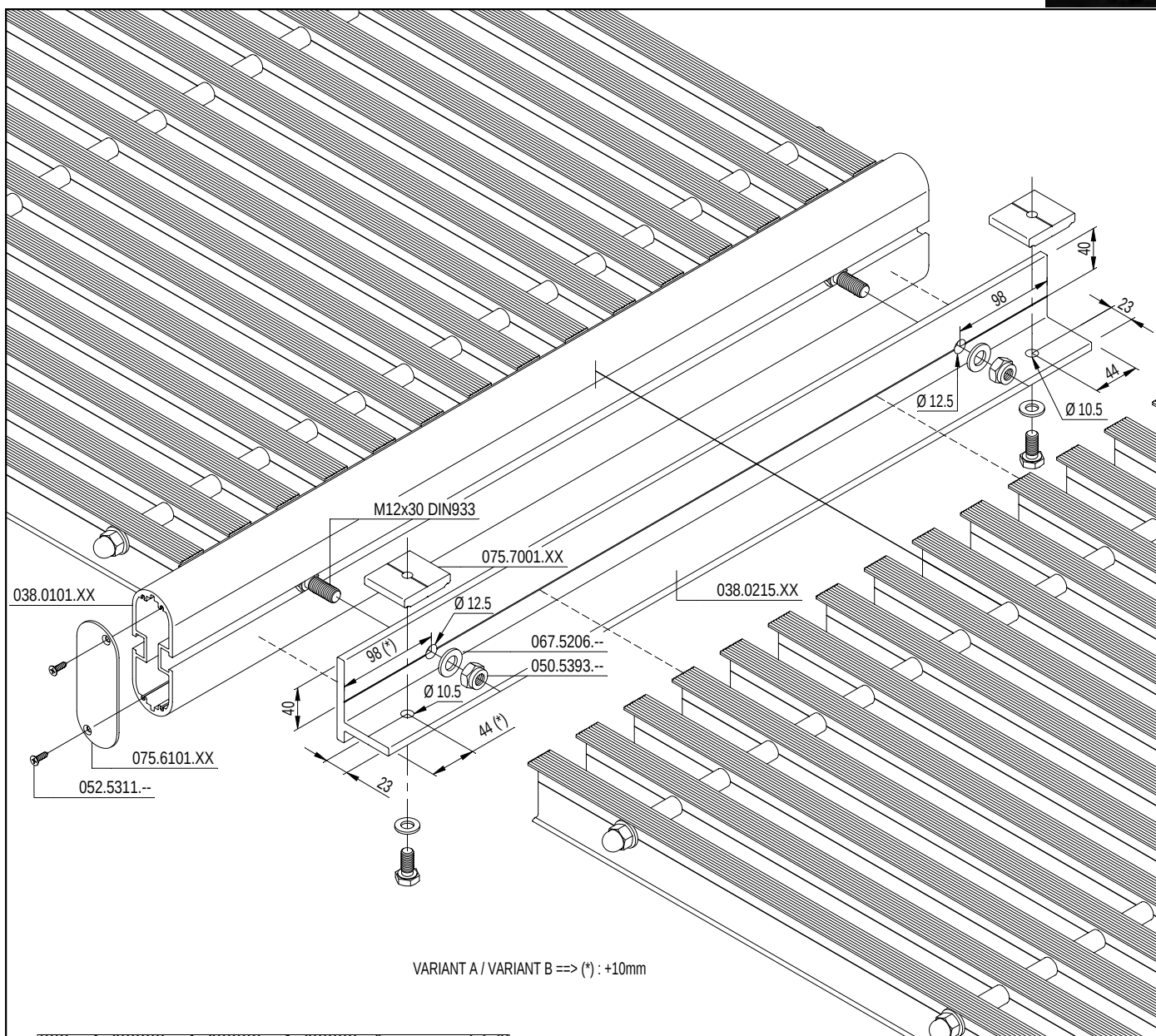
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VARIANTE A
VARIANT A

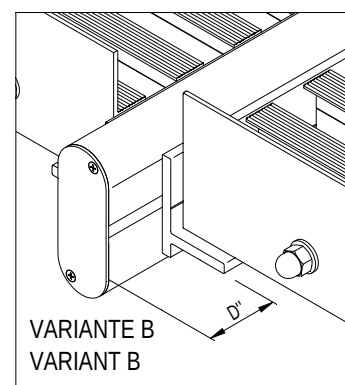
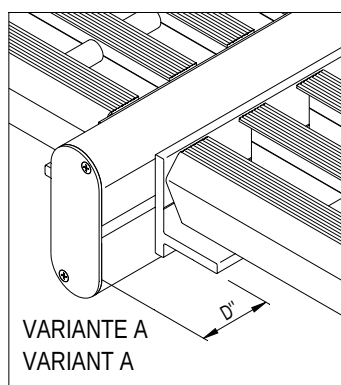


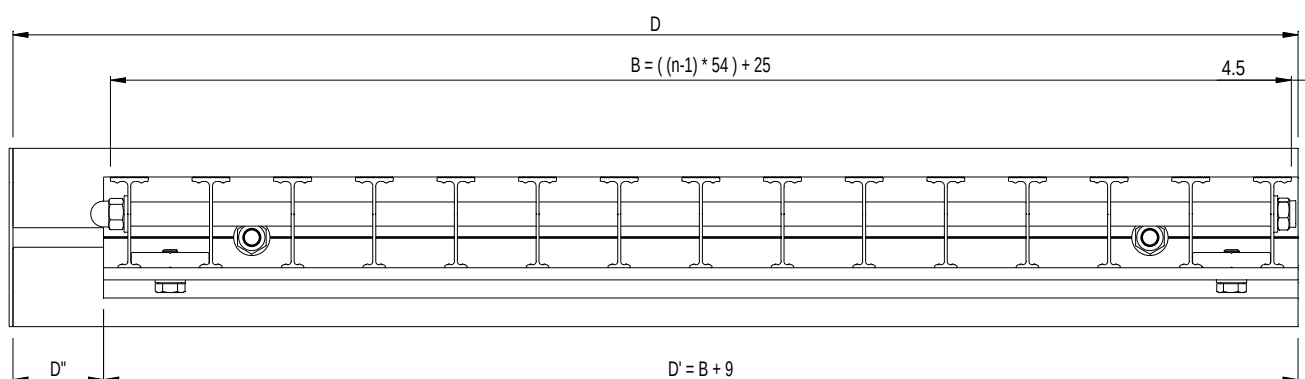
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VARIANTE B
VARIANT B

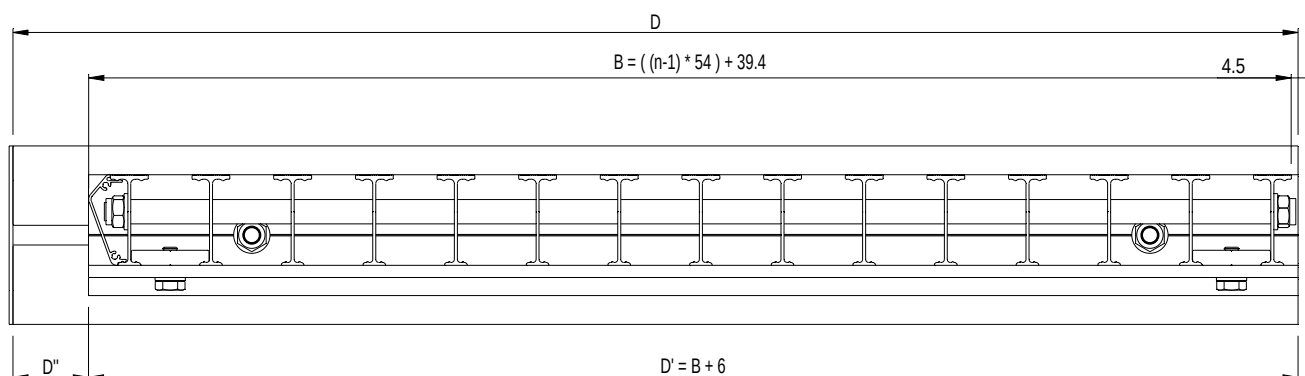


D'' = afhankelijk van situatie
D'' = en fonction de la situation
D'' = depending on the situation
D'' = abhängig von der lage



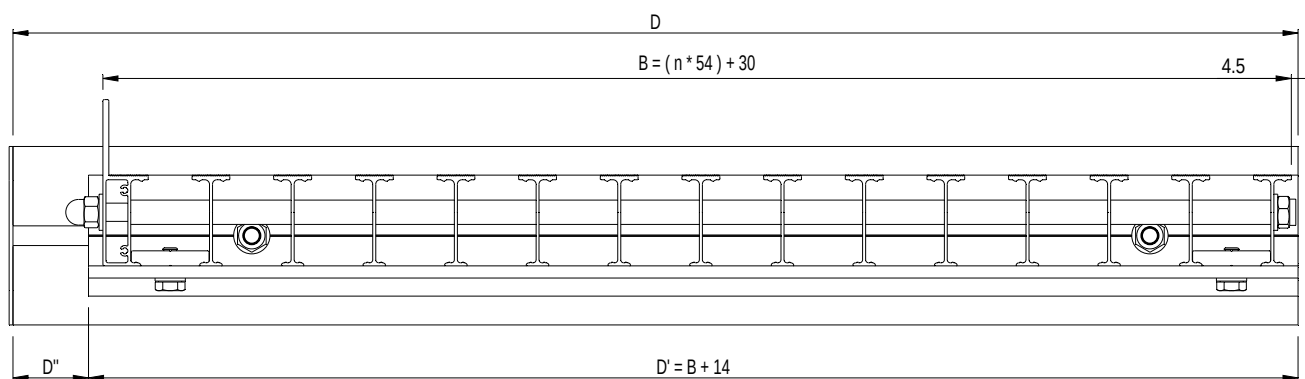


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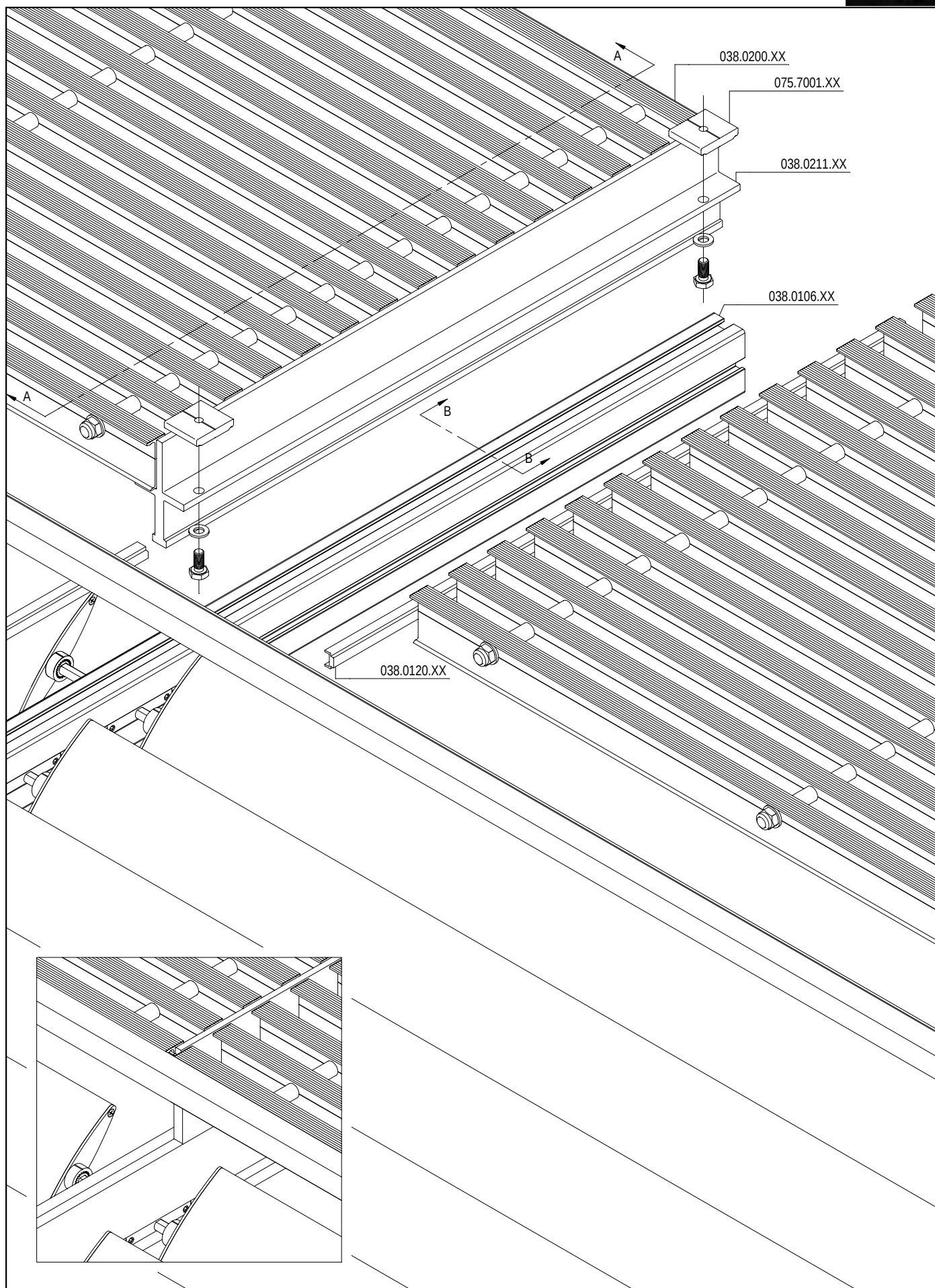
VARIANTE A
VARIANT A

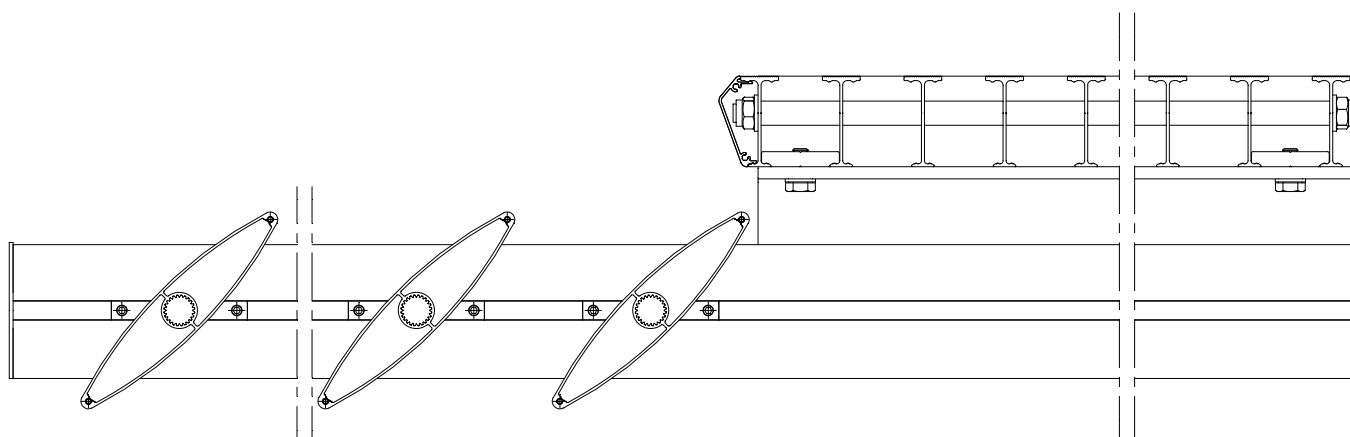
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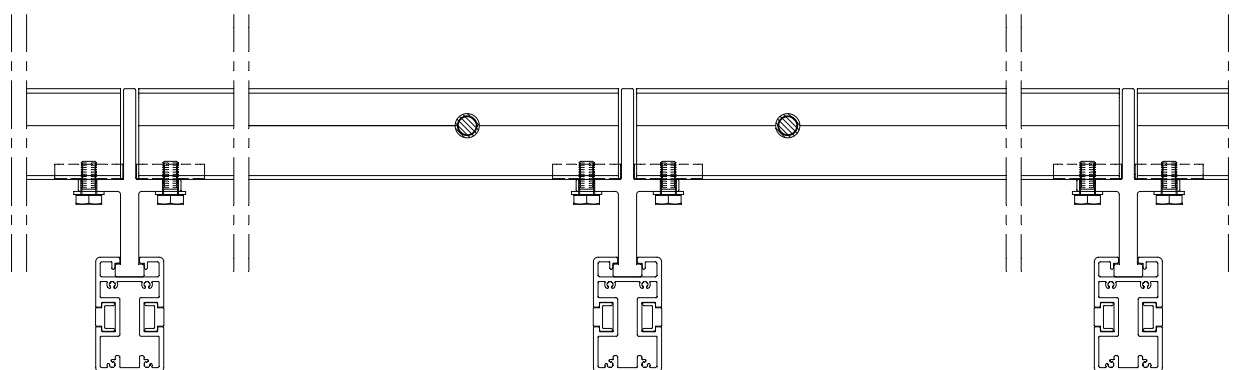
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VARIANT B

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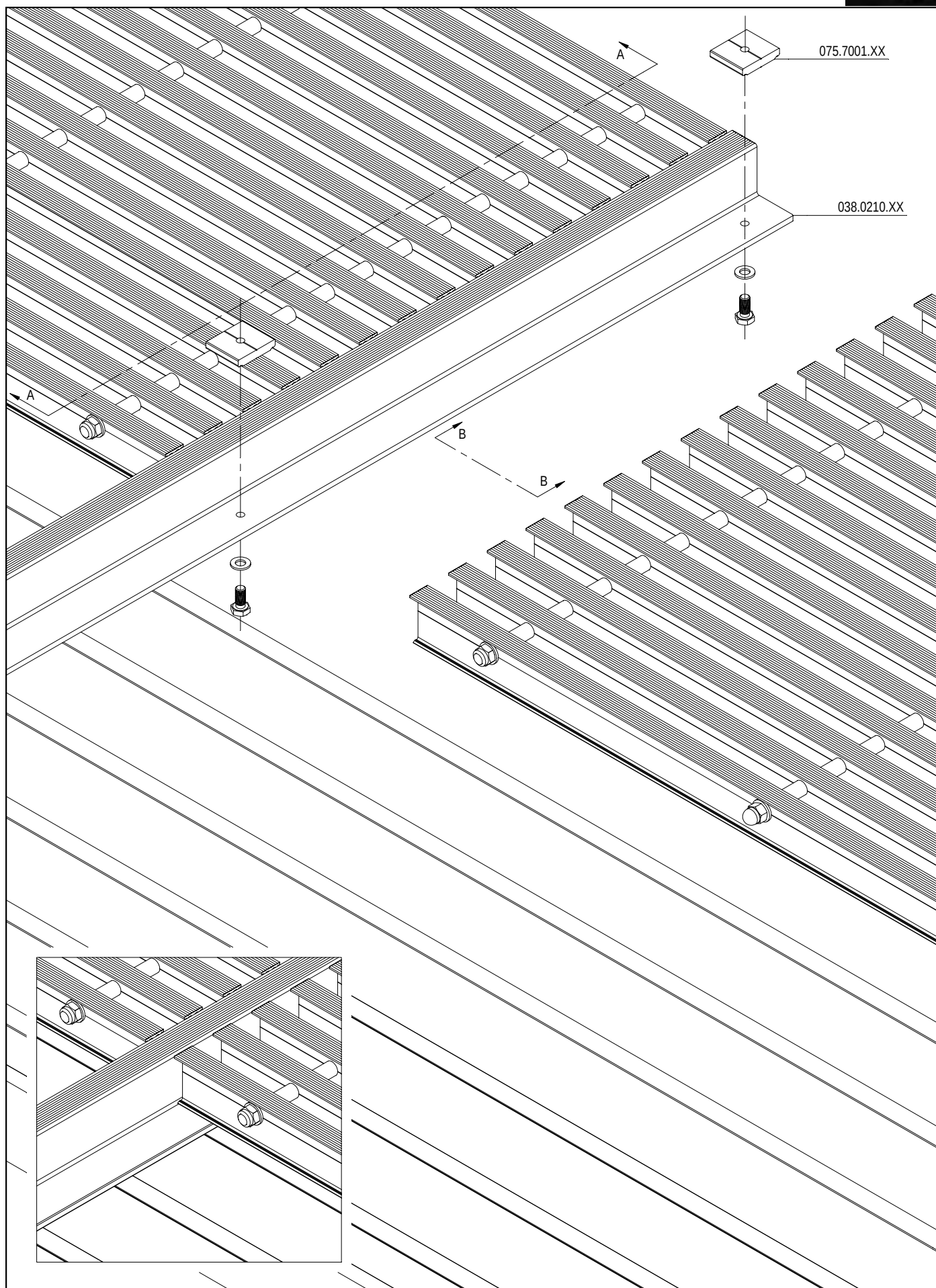


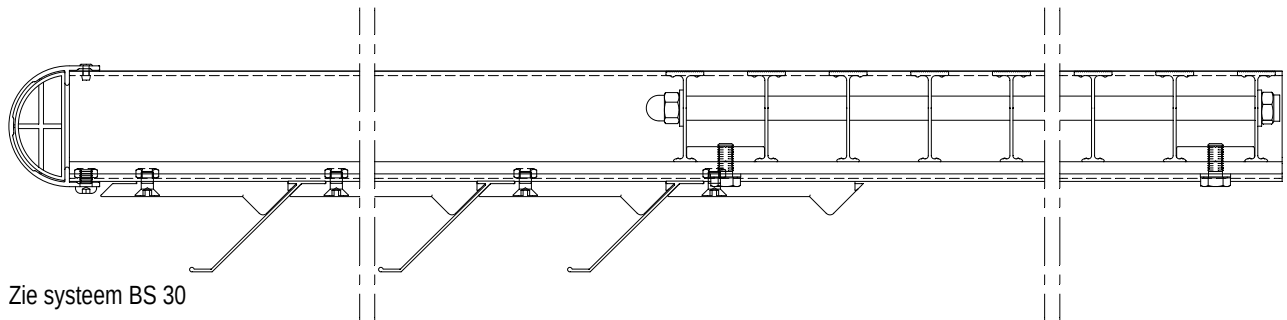


SECTION A - A



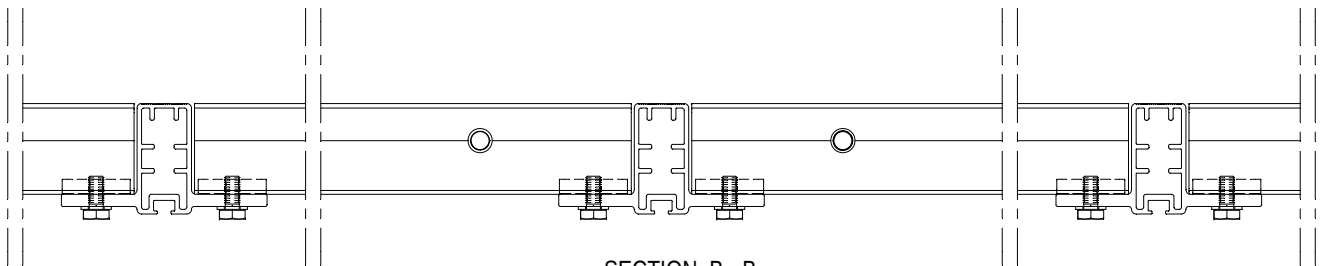
SECTION B - B





- ☞ Zie systeem BS 30
- ☞ Voir système BS 30
- ☞ See system BS 30
- ☞ Siehe system BS 30

SECTION A - A



SECTION B - B

Algemene opmerking :

Elke typische situatie en specifiek project dient door een officiële structureel ingenieur berekend/bekrachtigd te worden.

Remarque générale :

Chaque situation typique et projet spécifique doit être calculé/validé par un ingénieur structurel officiel.

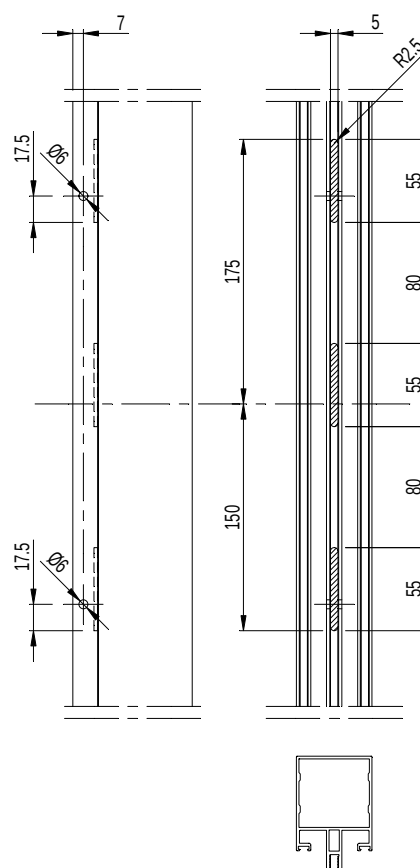
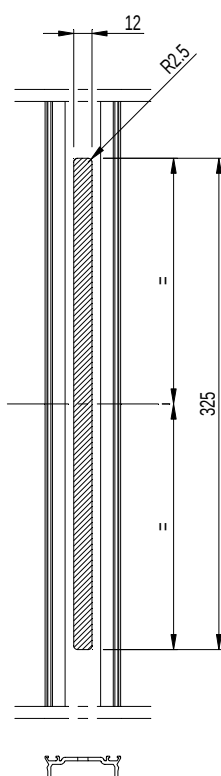
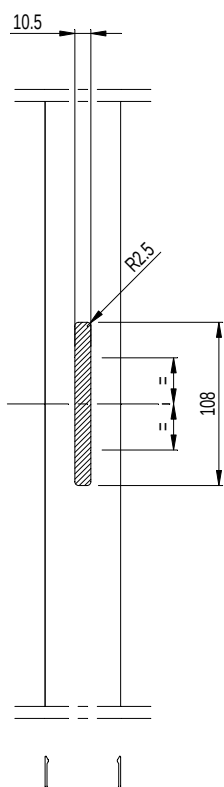
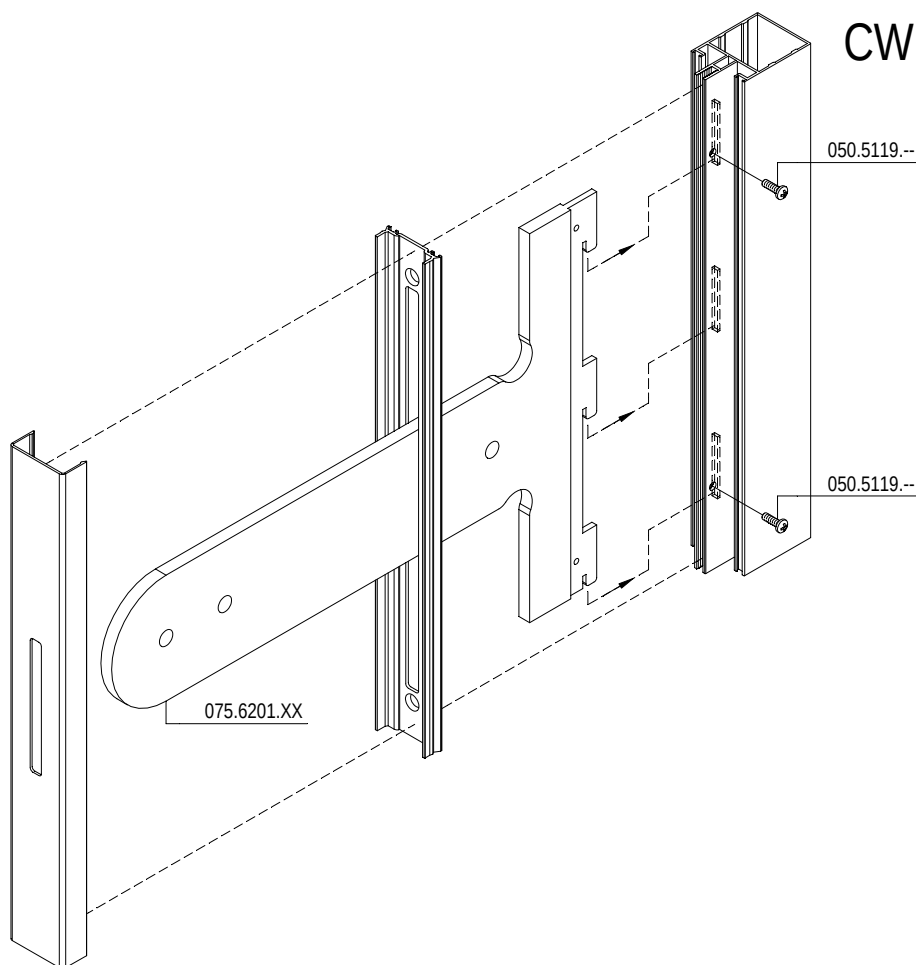
General remark :

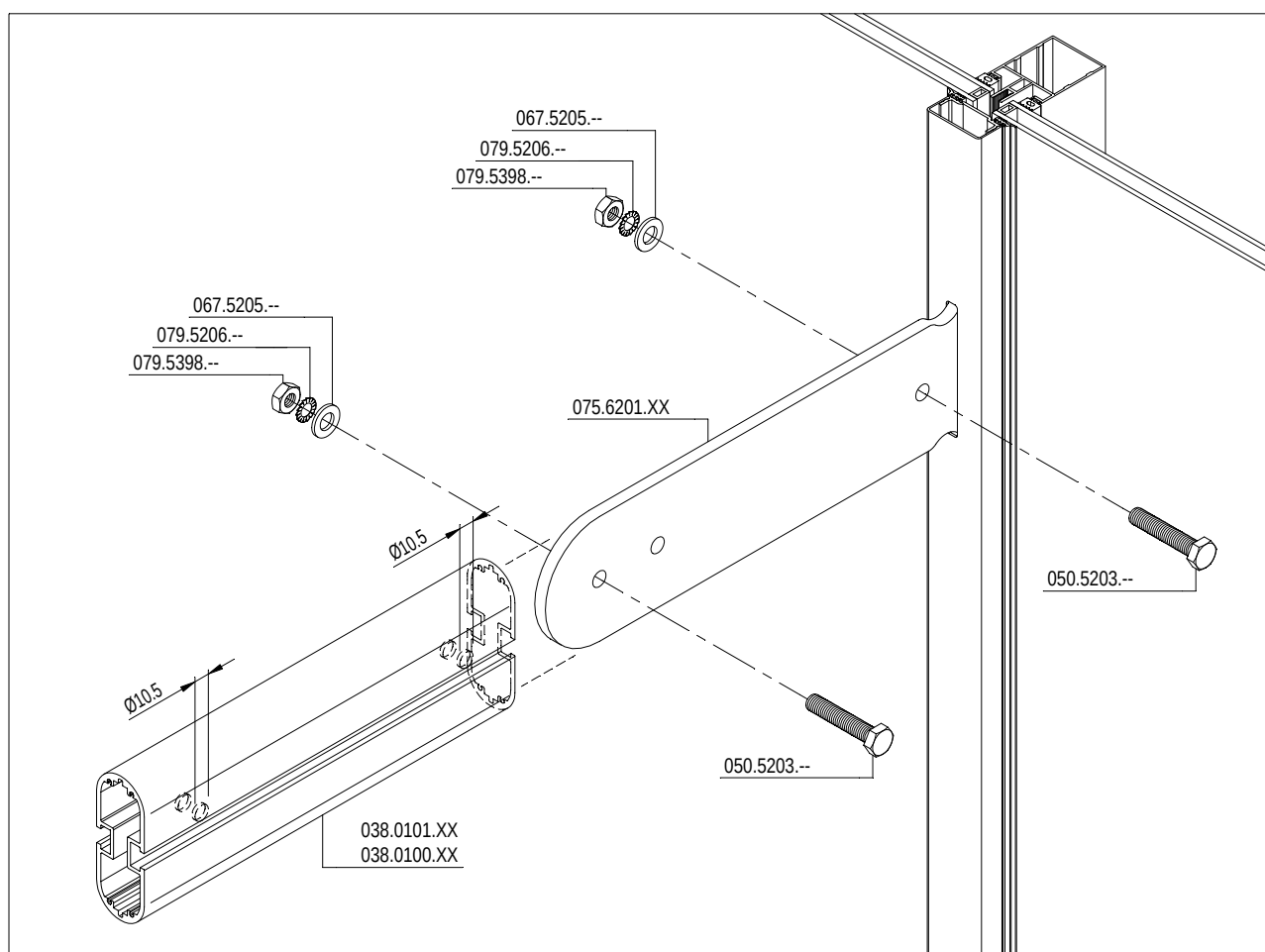
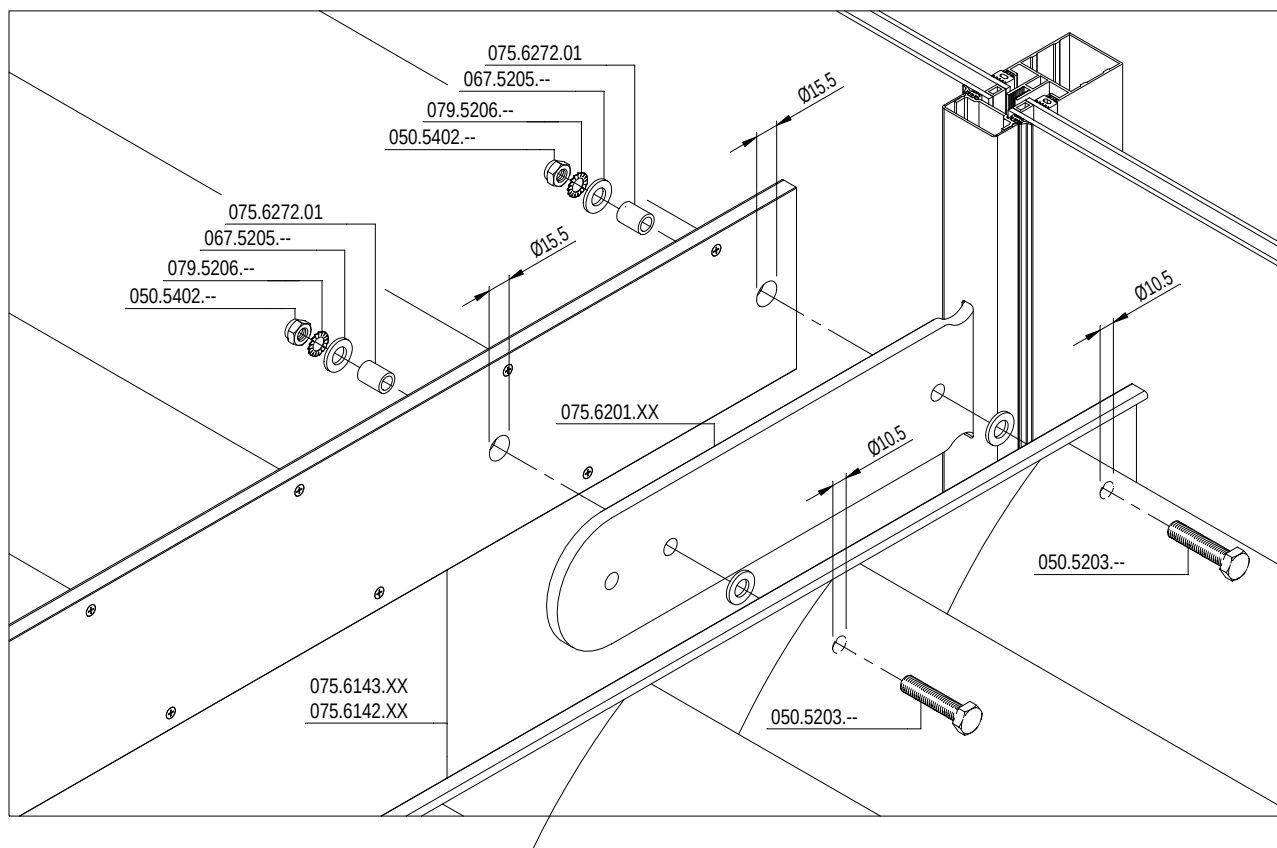
Every typical situation and specific project has to be calculated / validated by an official structural engineer.

Allgemeine Anmerkung :

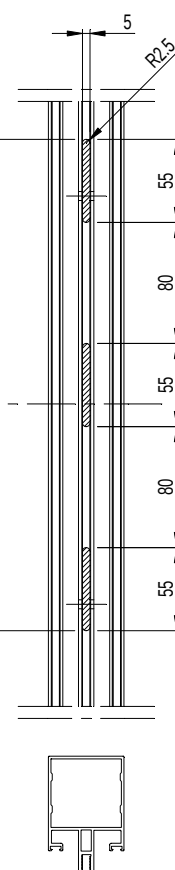
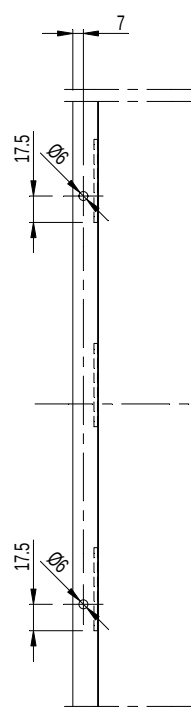
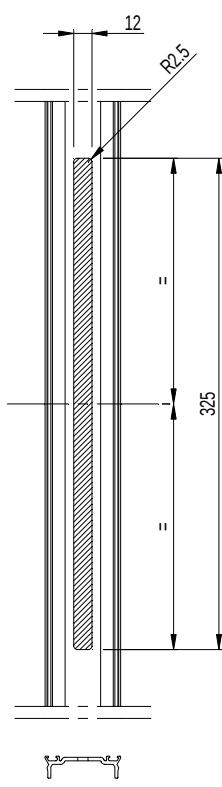
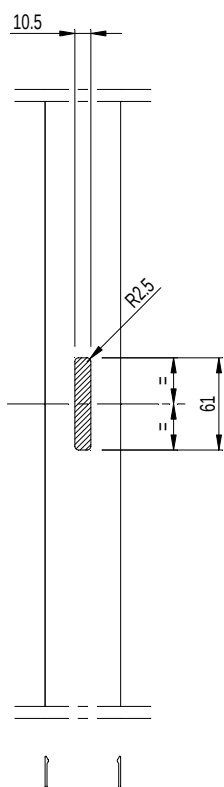
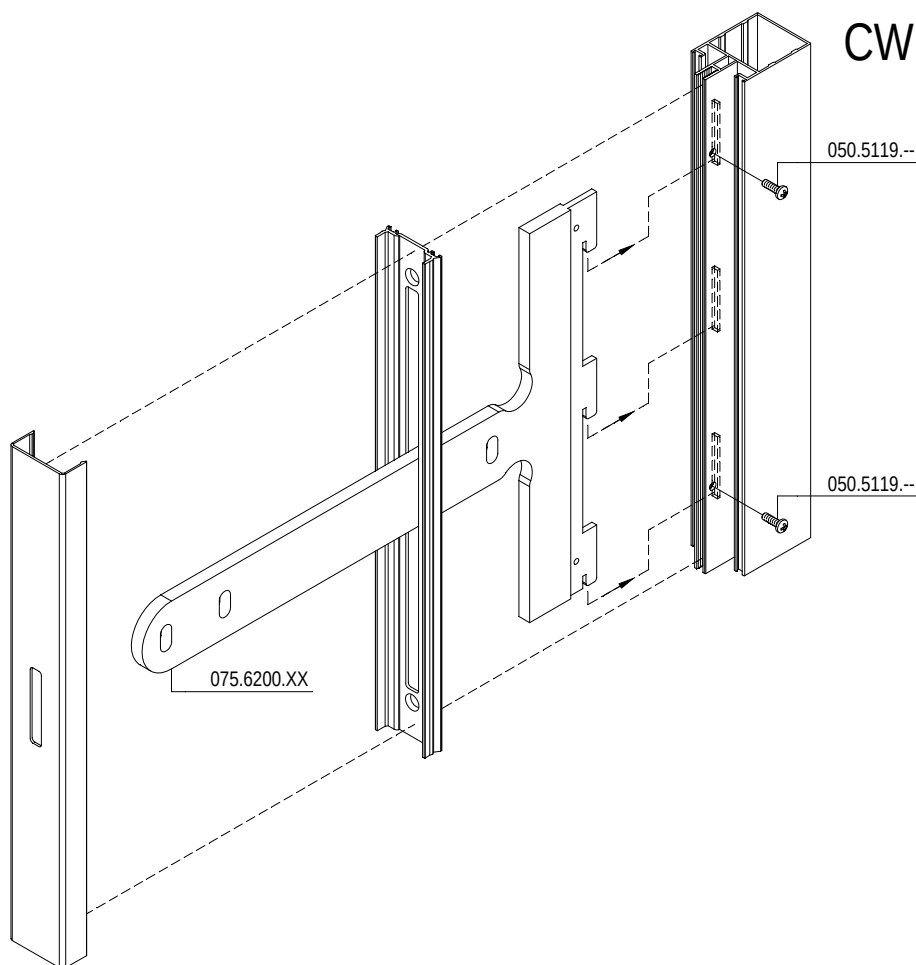
Jede typische Situation und spezifisches Projekt soll von einem offiziellen strukturellen Ingenieur berechnet bekräftigt werden.

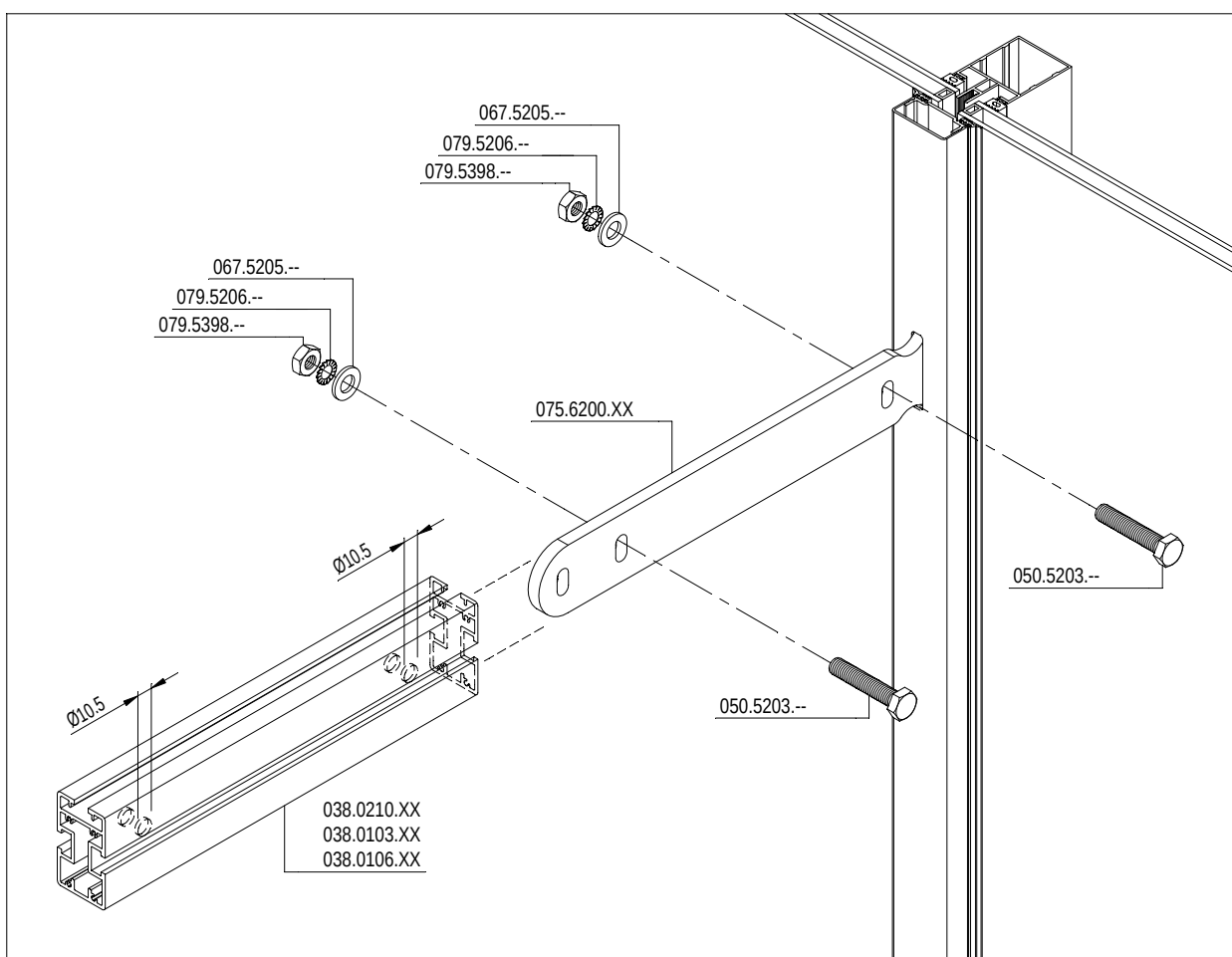
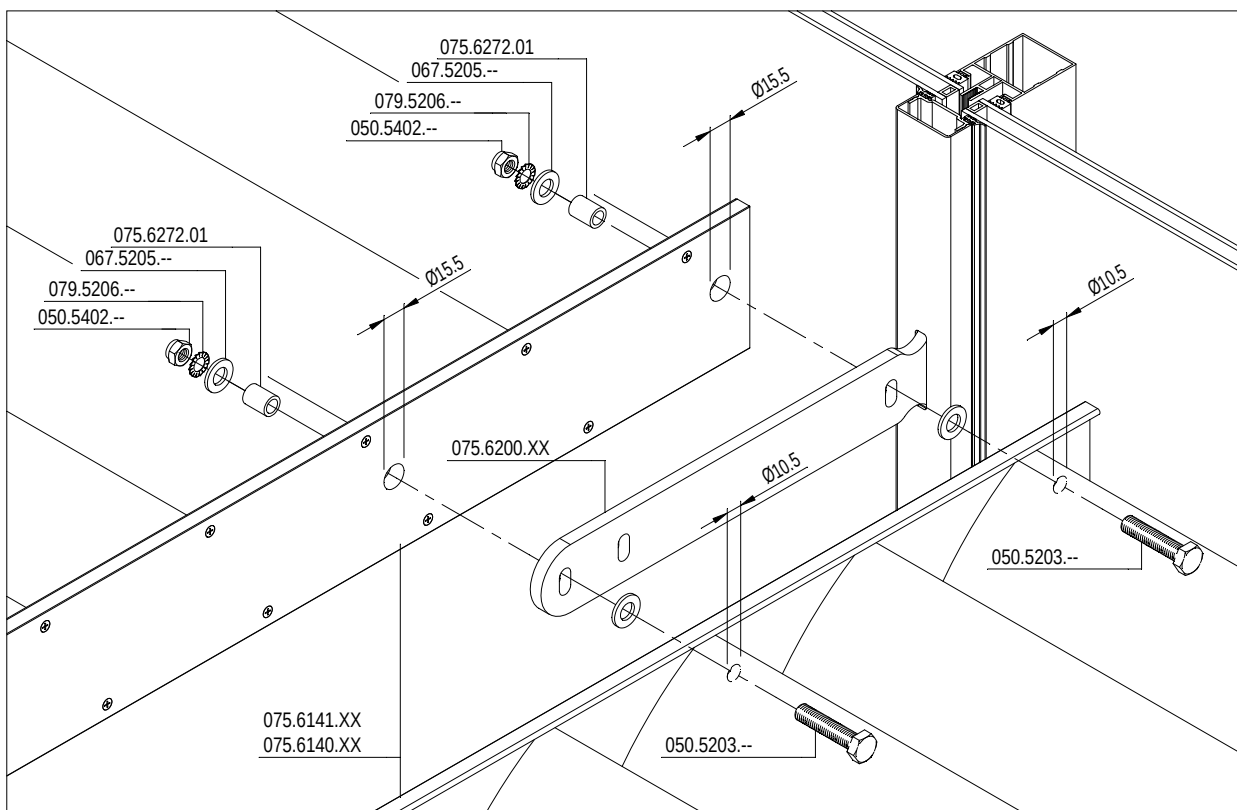
CW 50



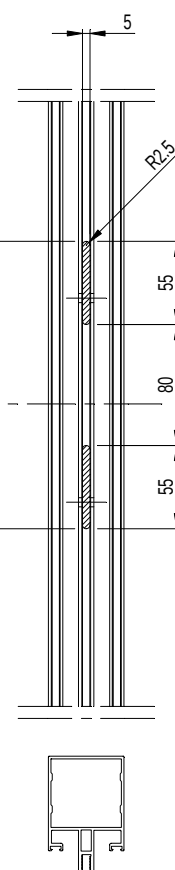
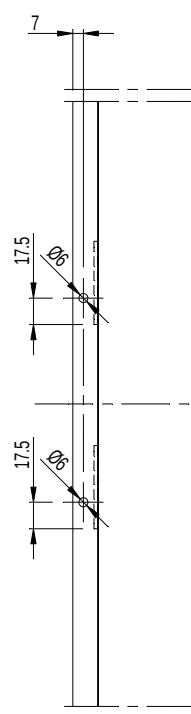
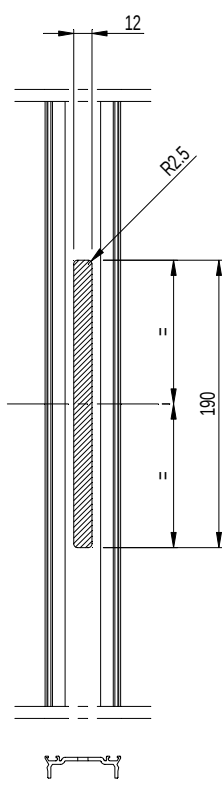
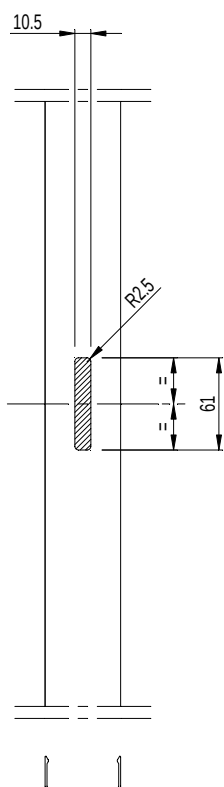
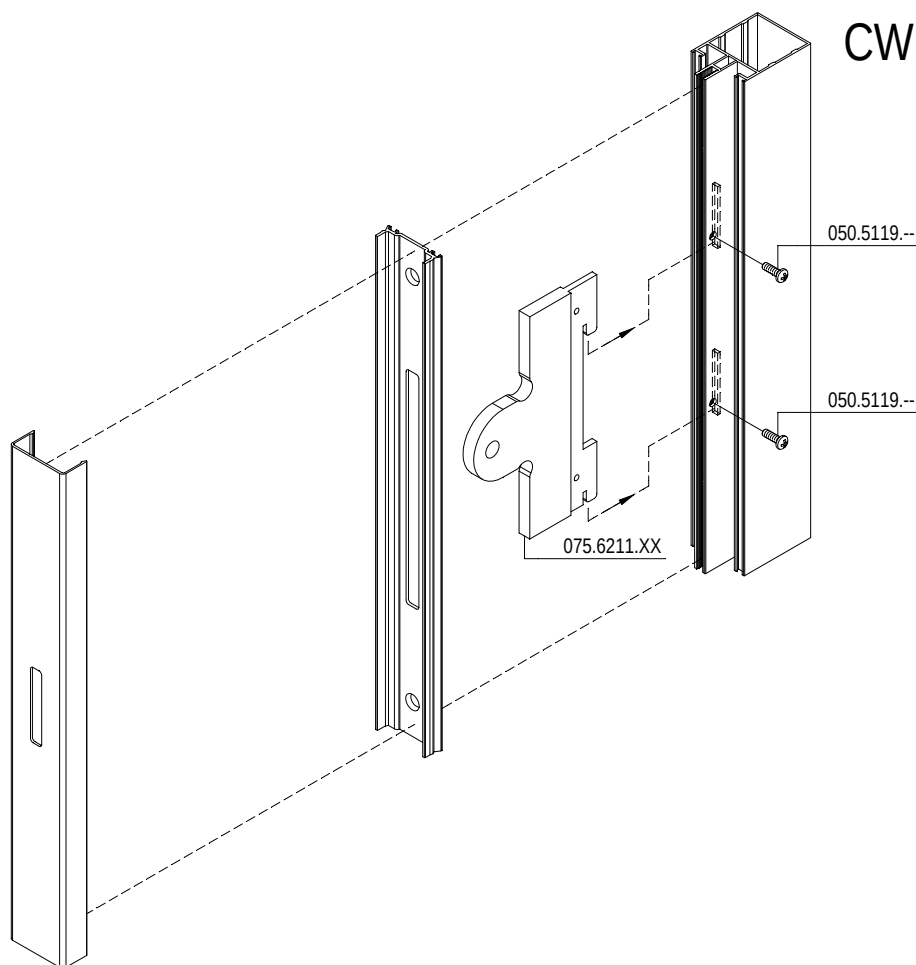


CW 50

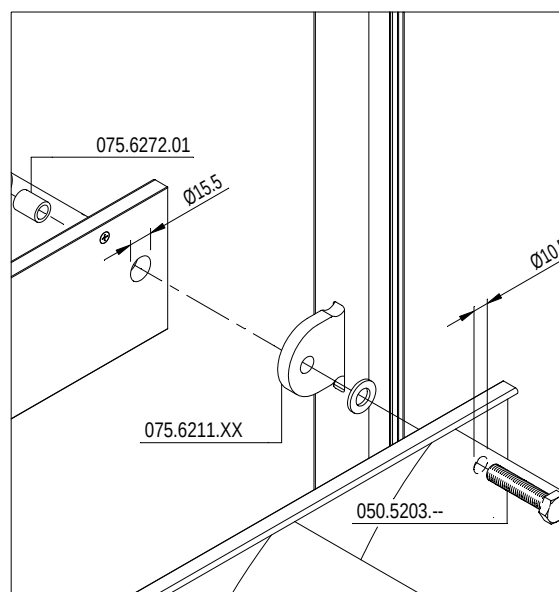
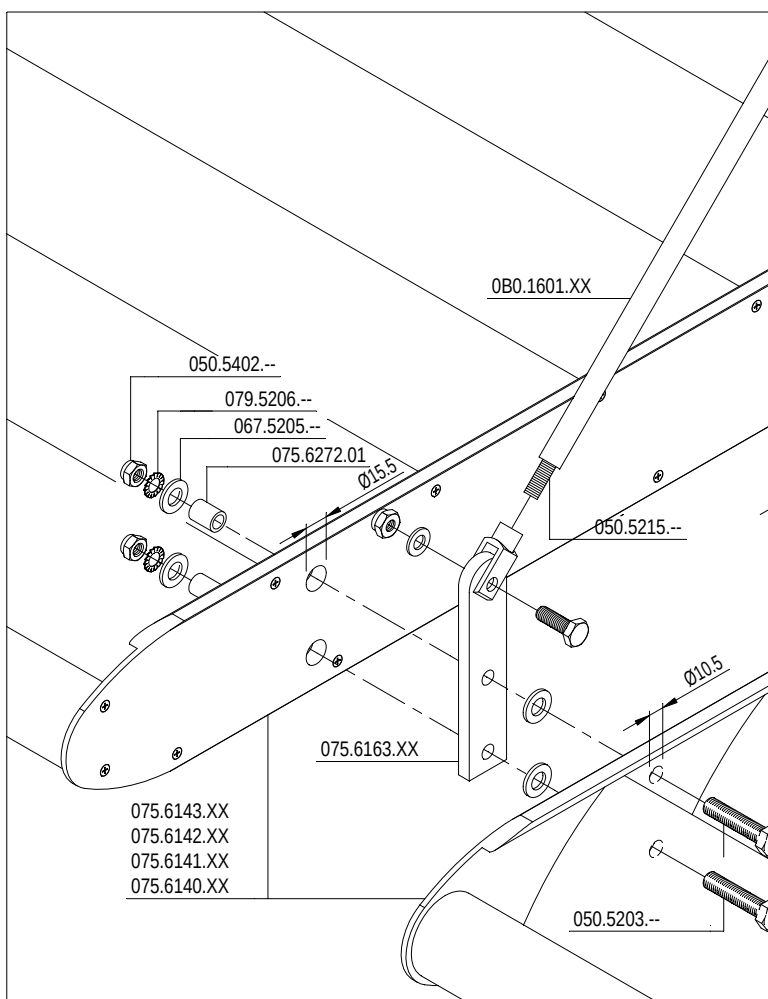
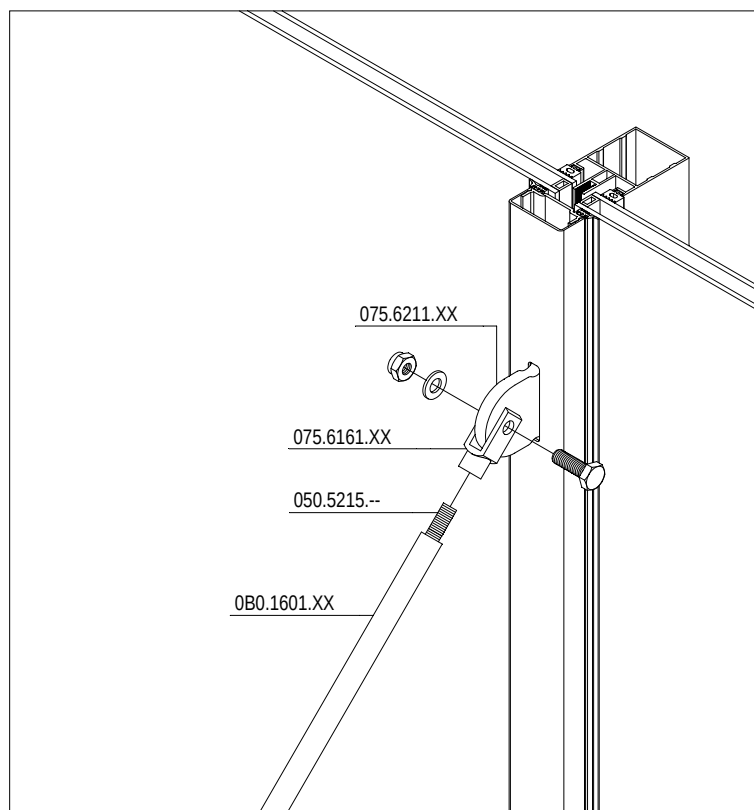
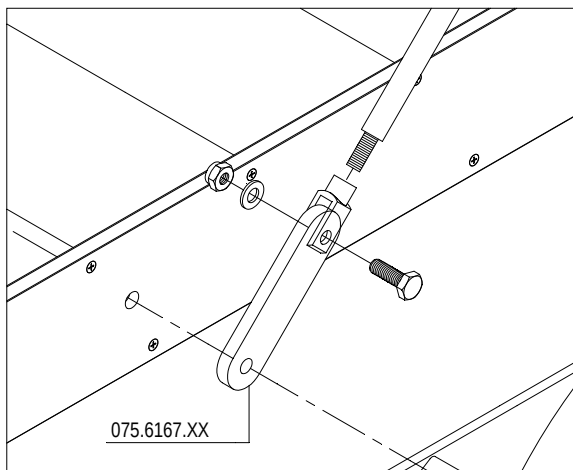




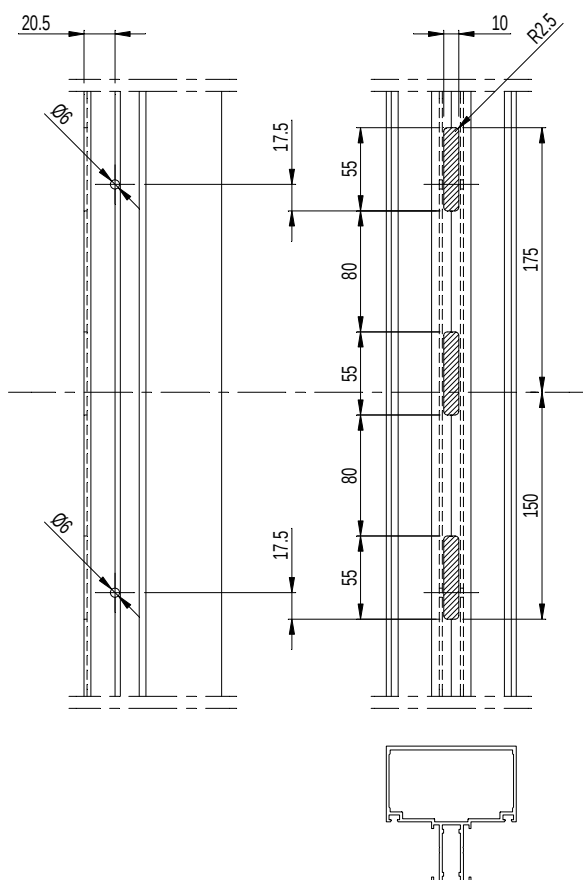
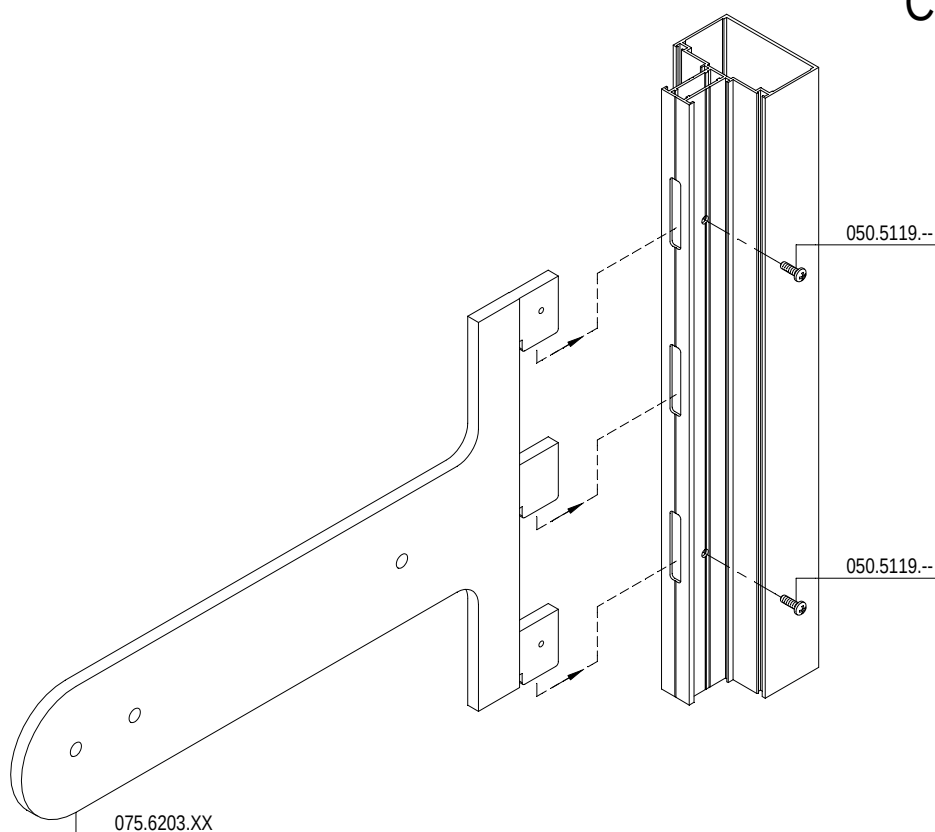
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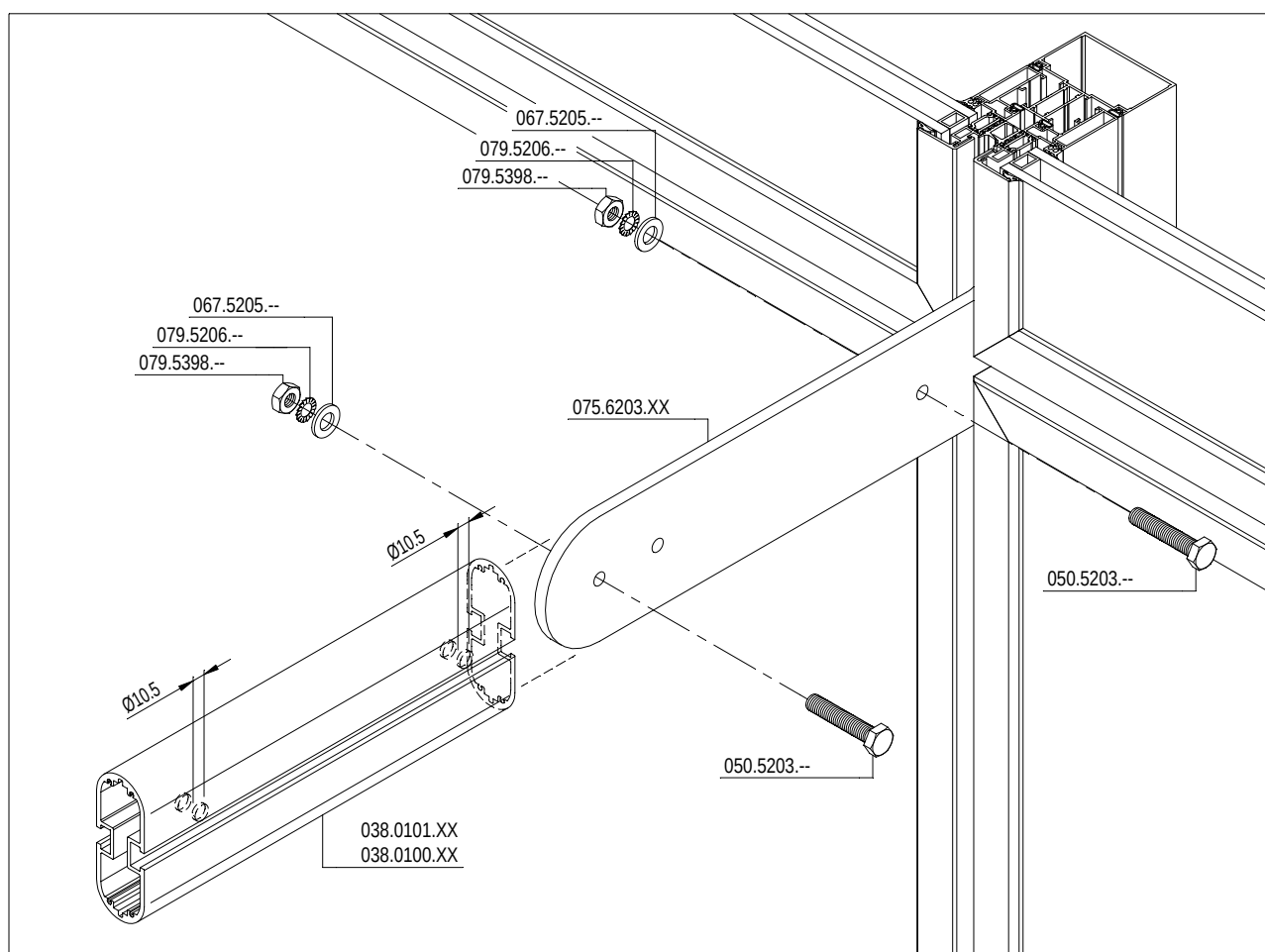
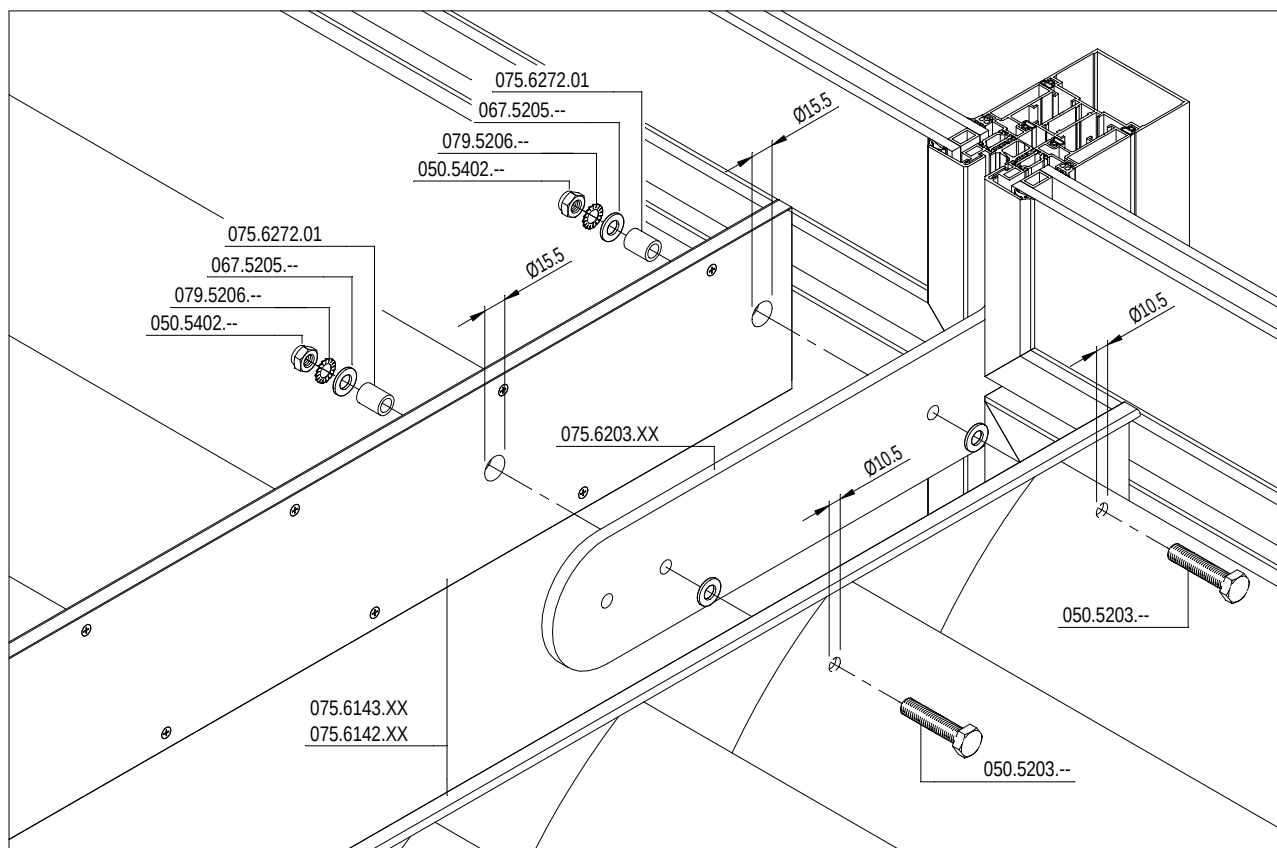


VARIANTE
VARIANT

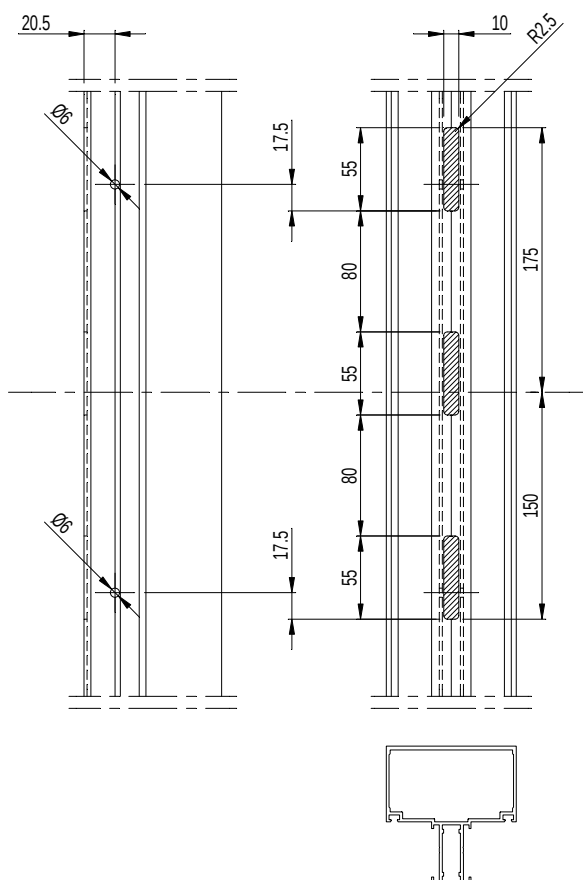
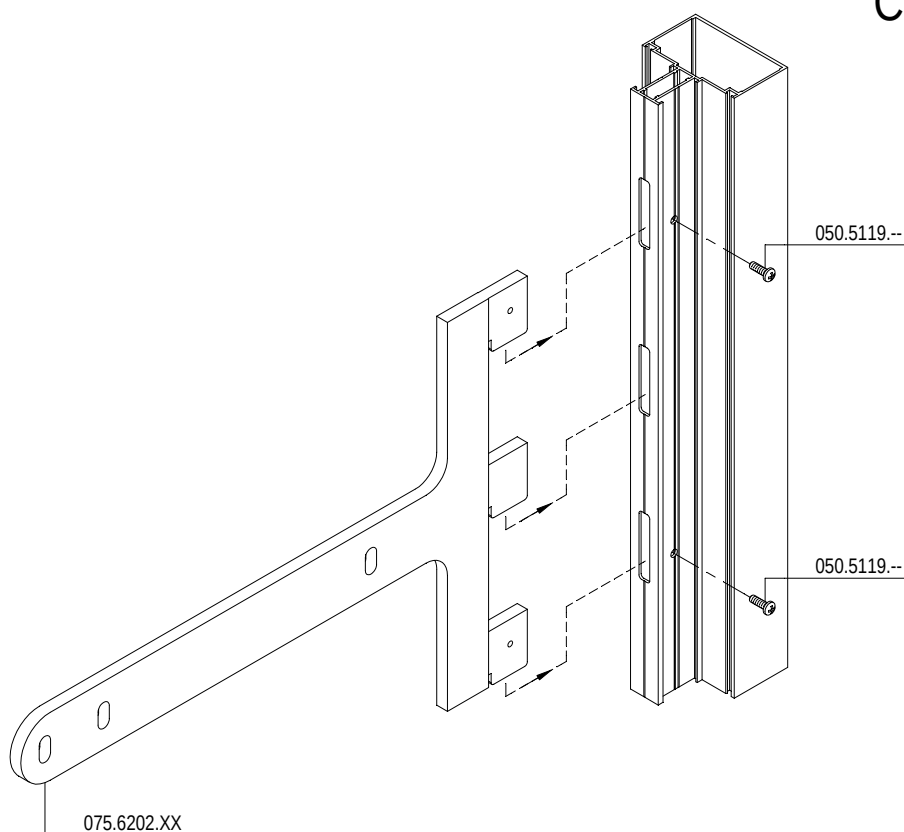


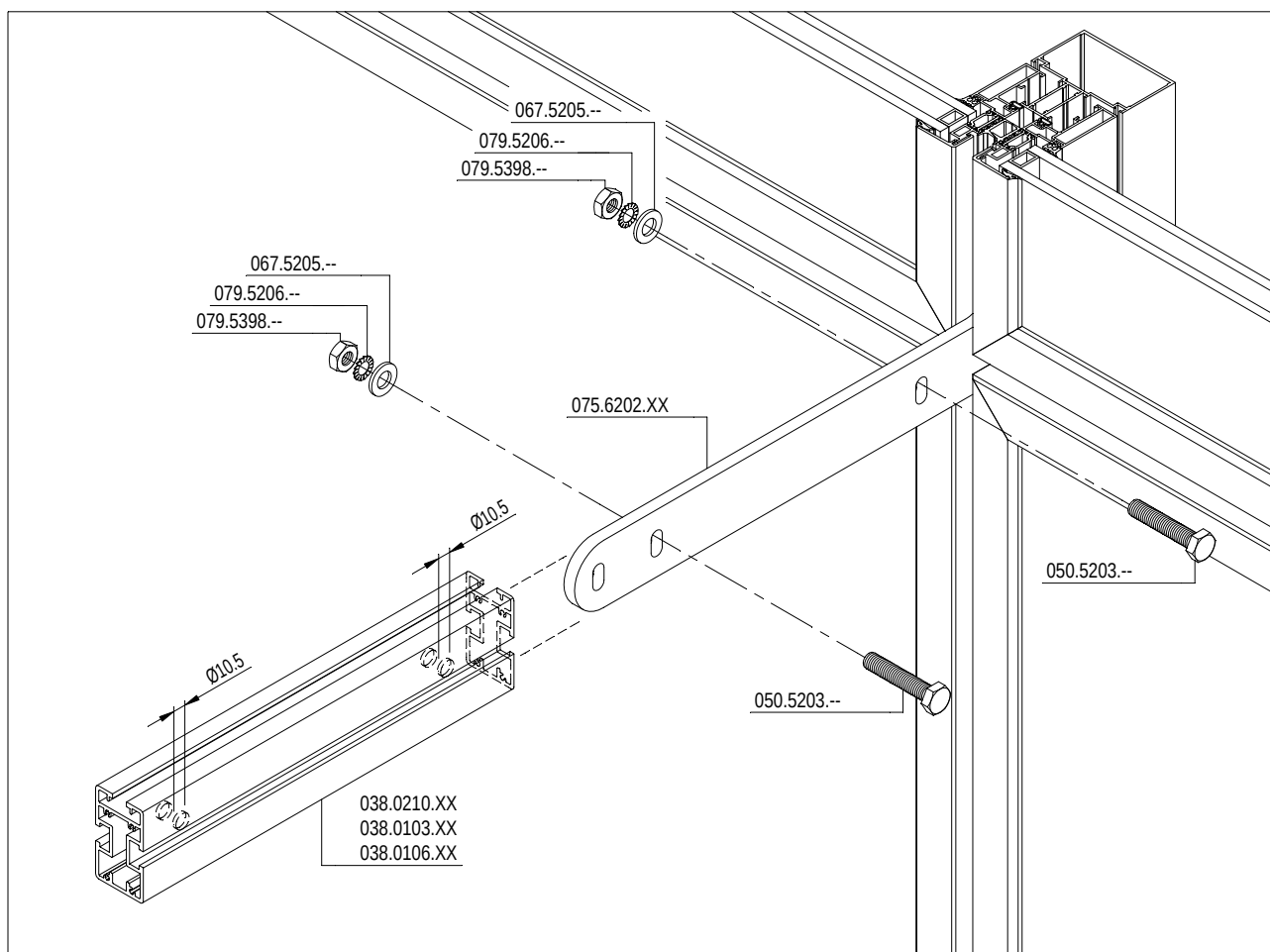
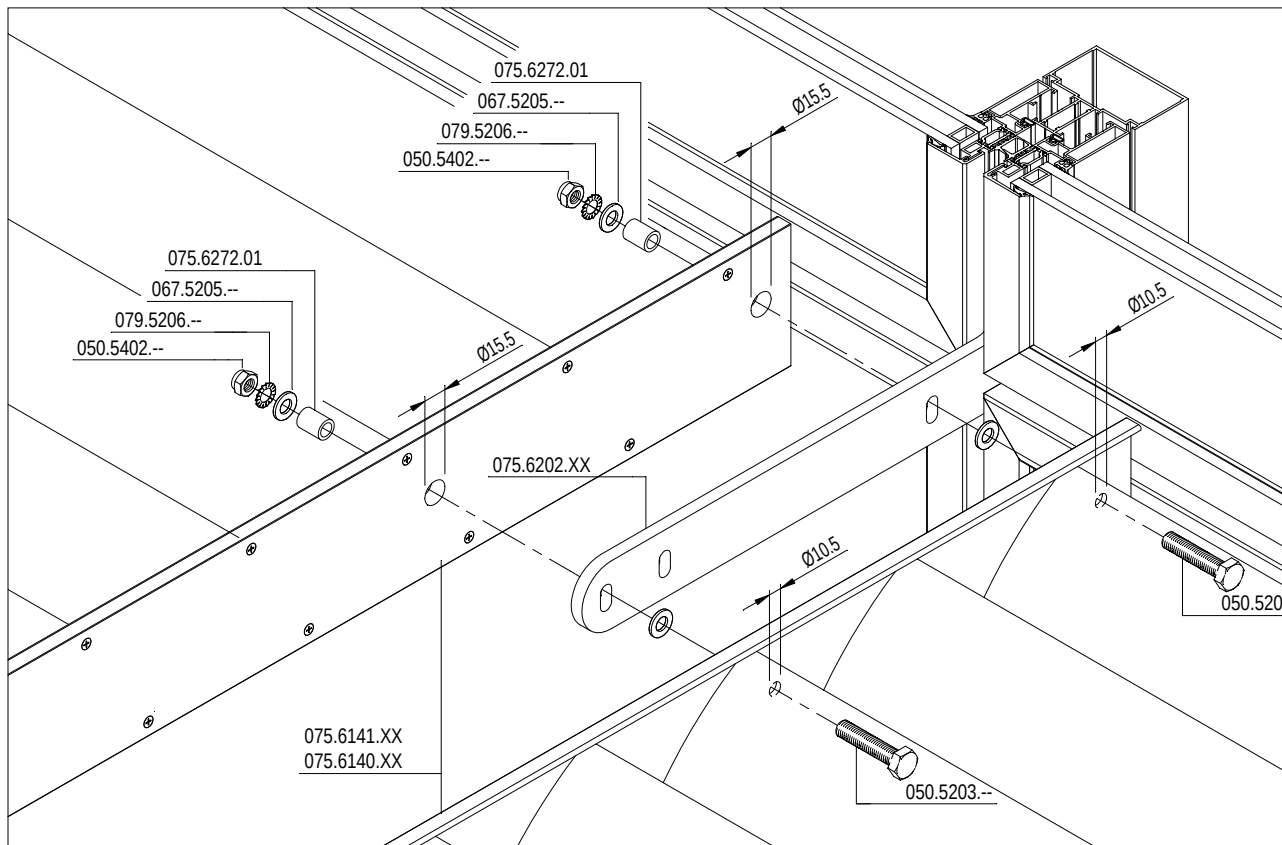
CW 86



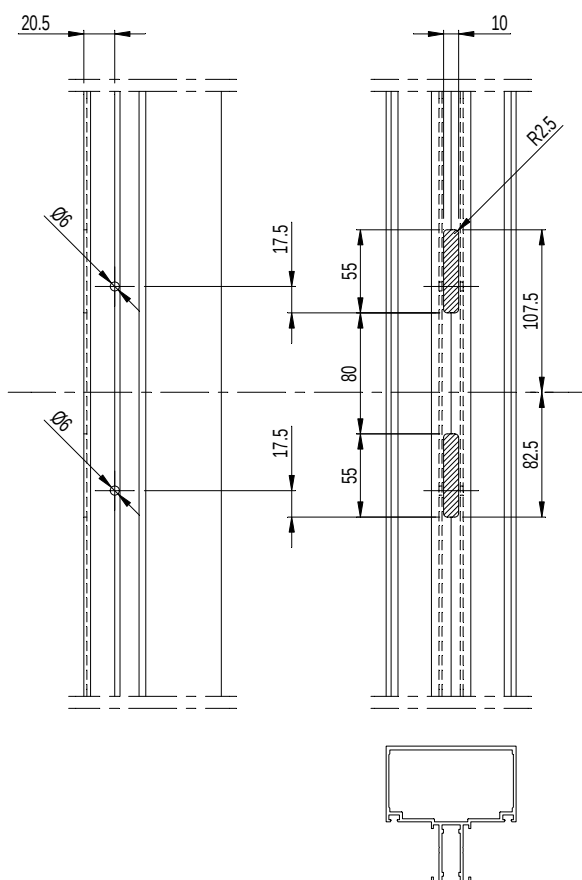
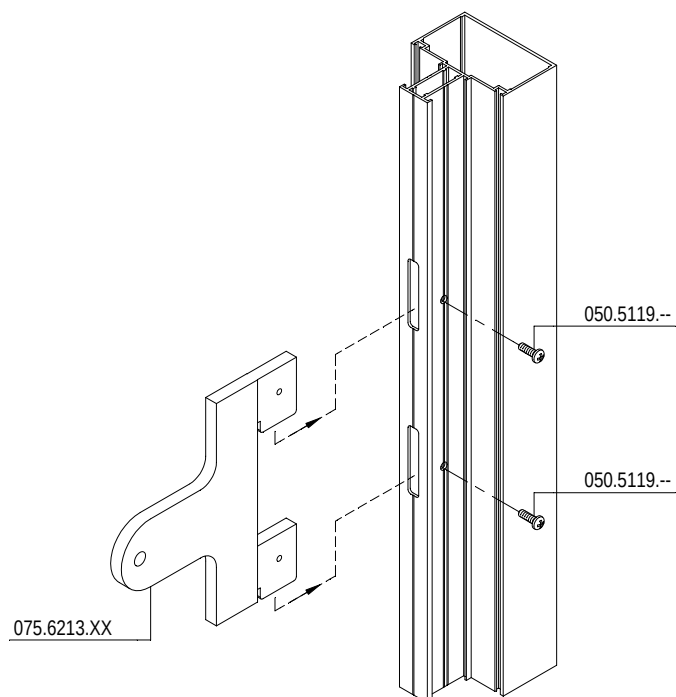


CW 86

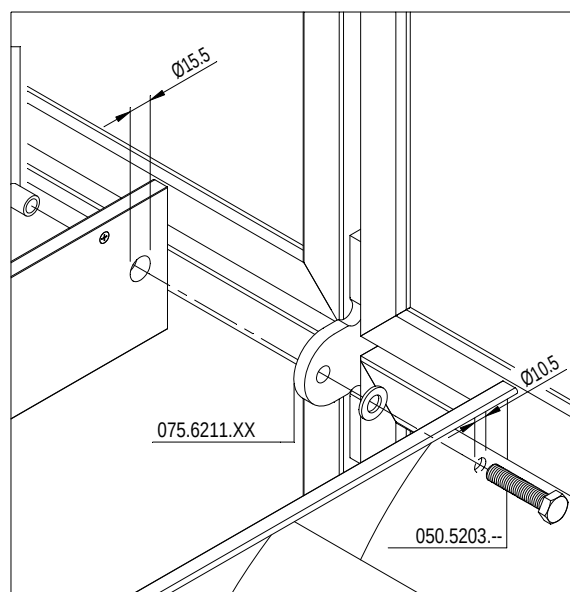
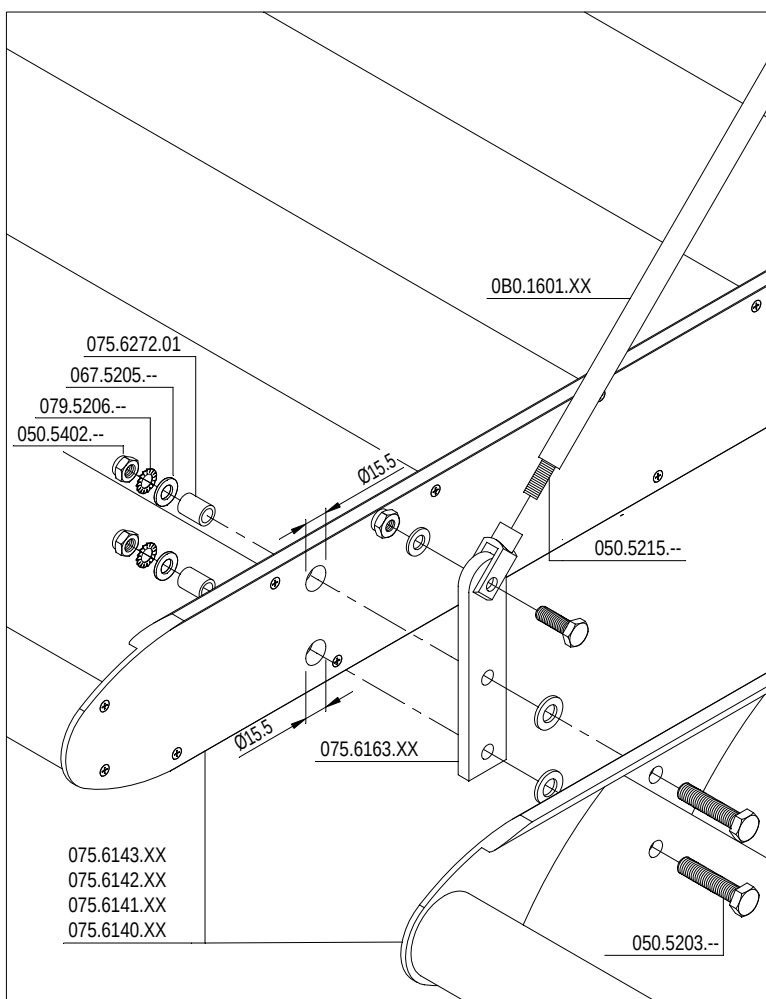
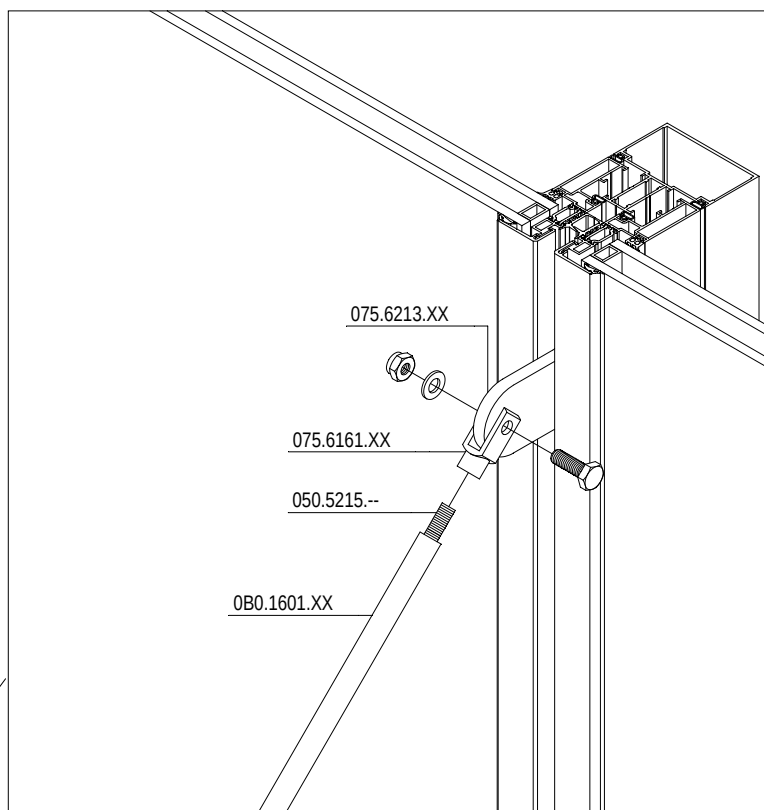
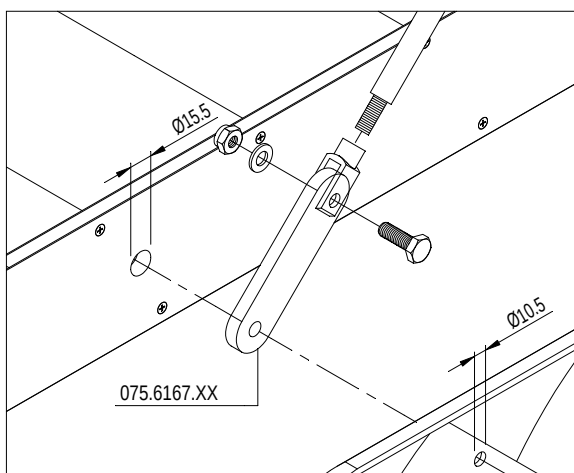


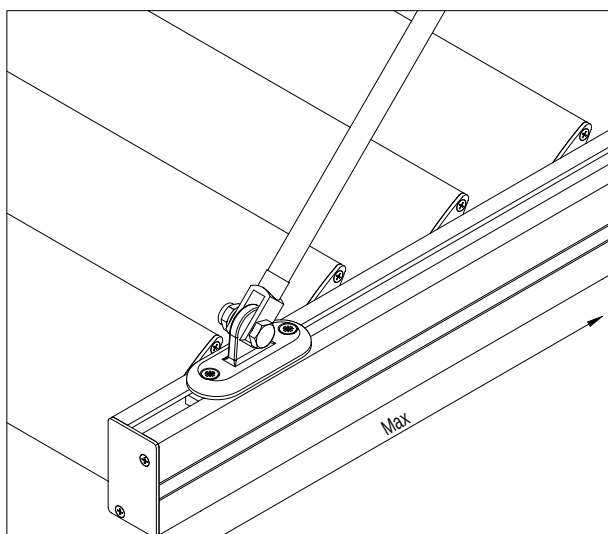


CW 86

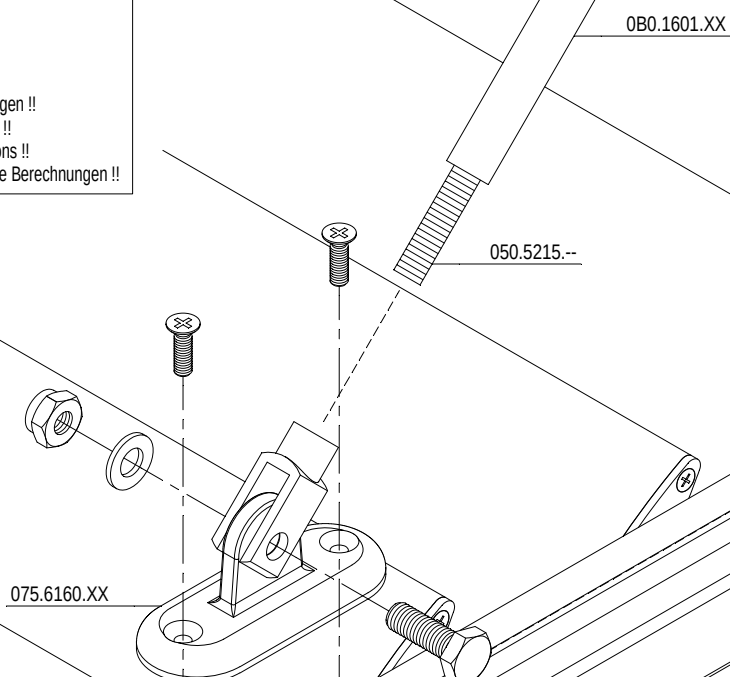


VARIANTE
VARIANT





Aanbevelingen ivm max. belastingen ! (Max. projecties) zie berekeningen !!
Recommendations sur charges max. ! (Projections max !) voir calculs !!
For recommendation on Max loads ! (Max projections !) see calculations !!
Empfehlungen über Maximalbelastungen ! (Maximalprojektionen) siehe Berechnungen !!



Vulstuk optioneel !
Pièce de remplissage optionnelle !
Optional filler !
Füllstück ist eine Option !

075.6506.--

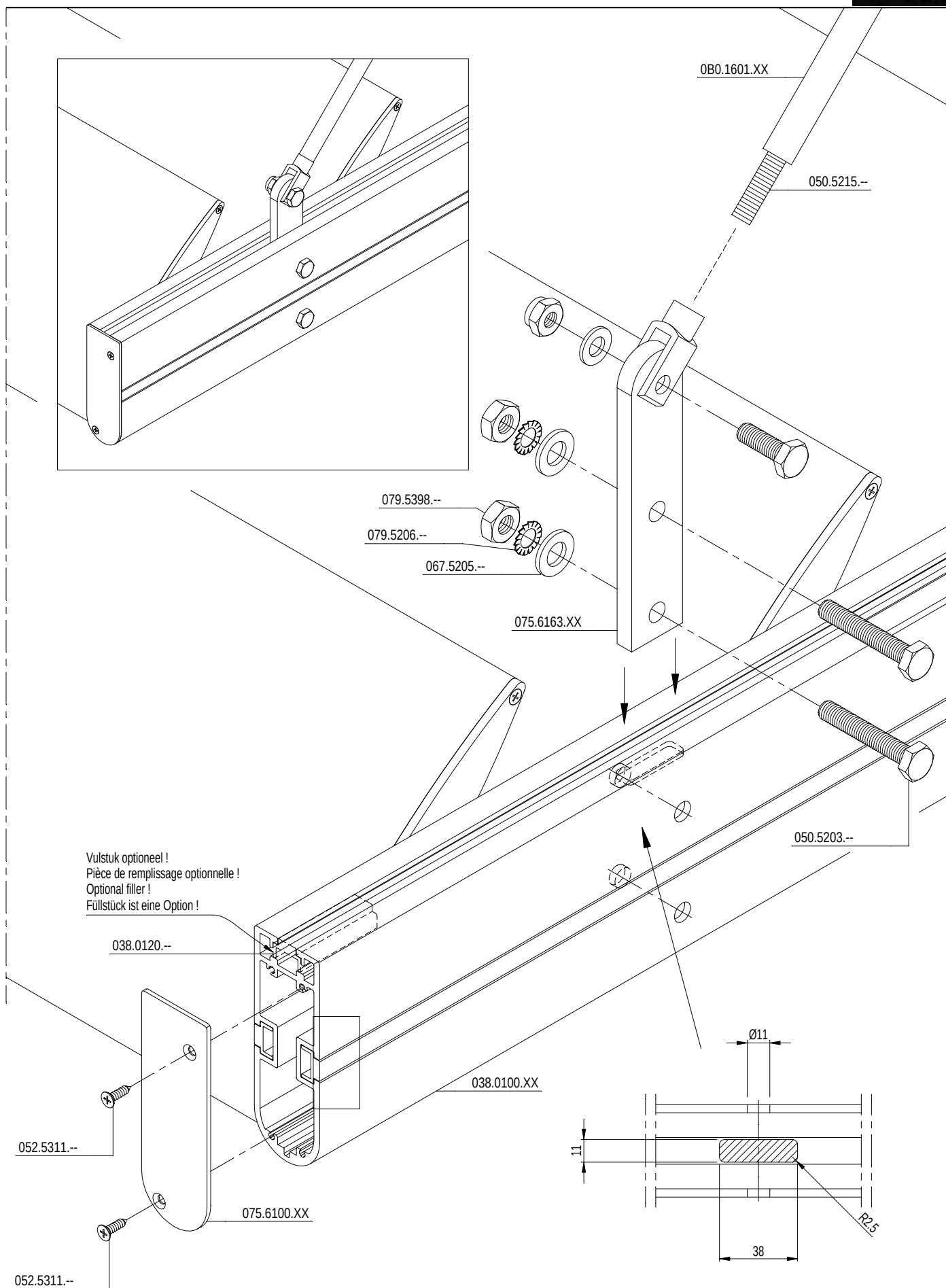
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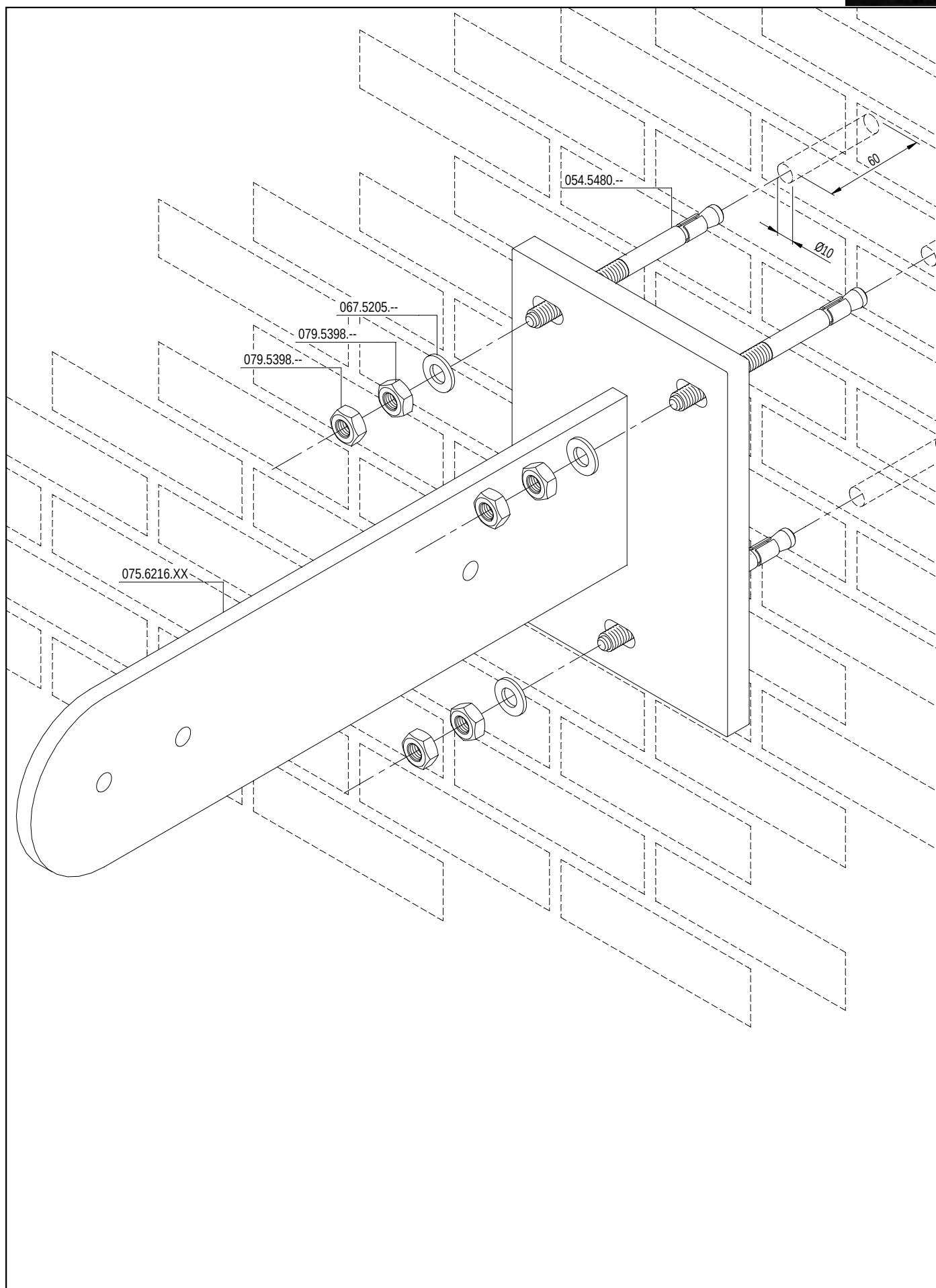
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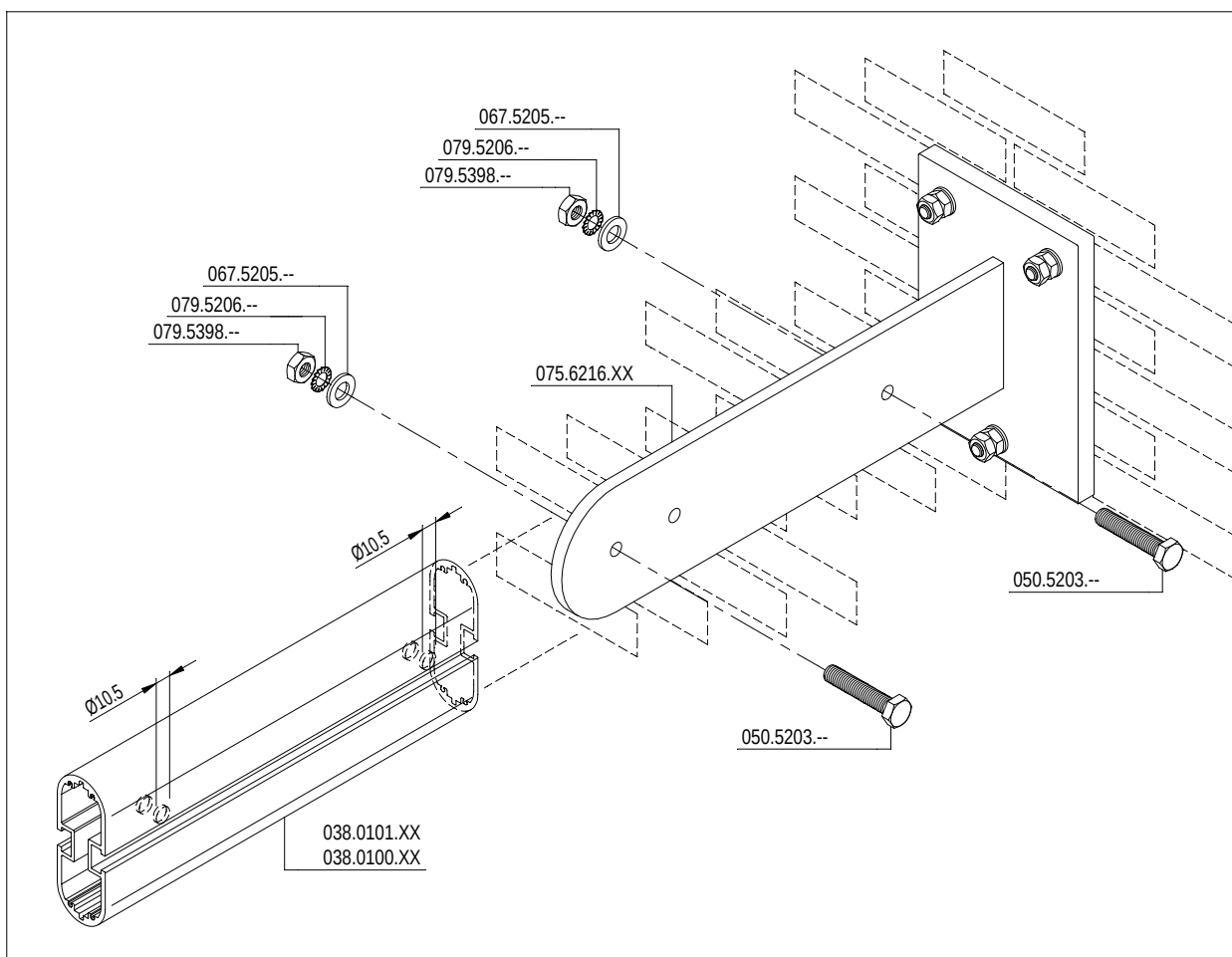
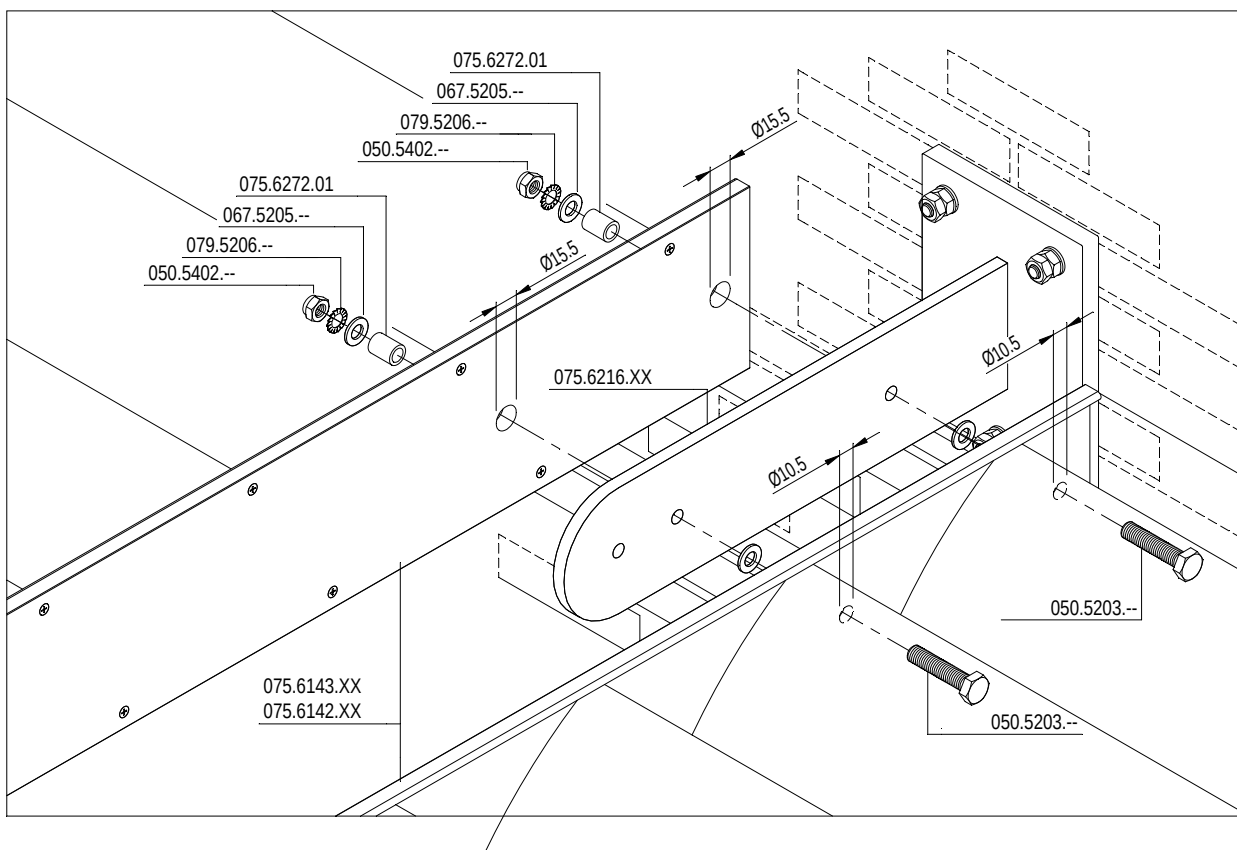
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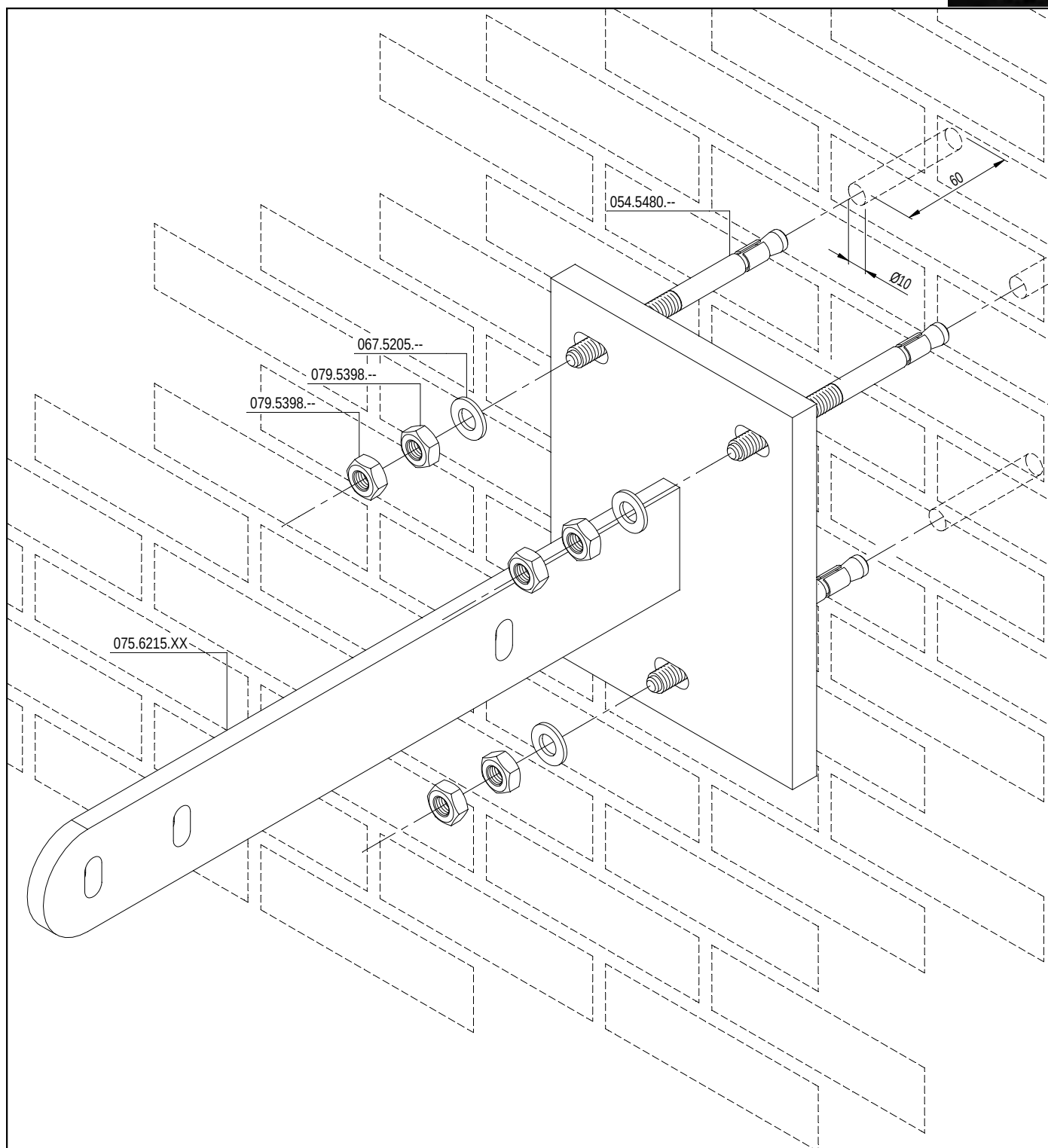
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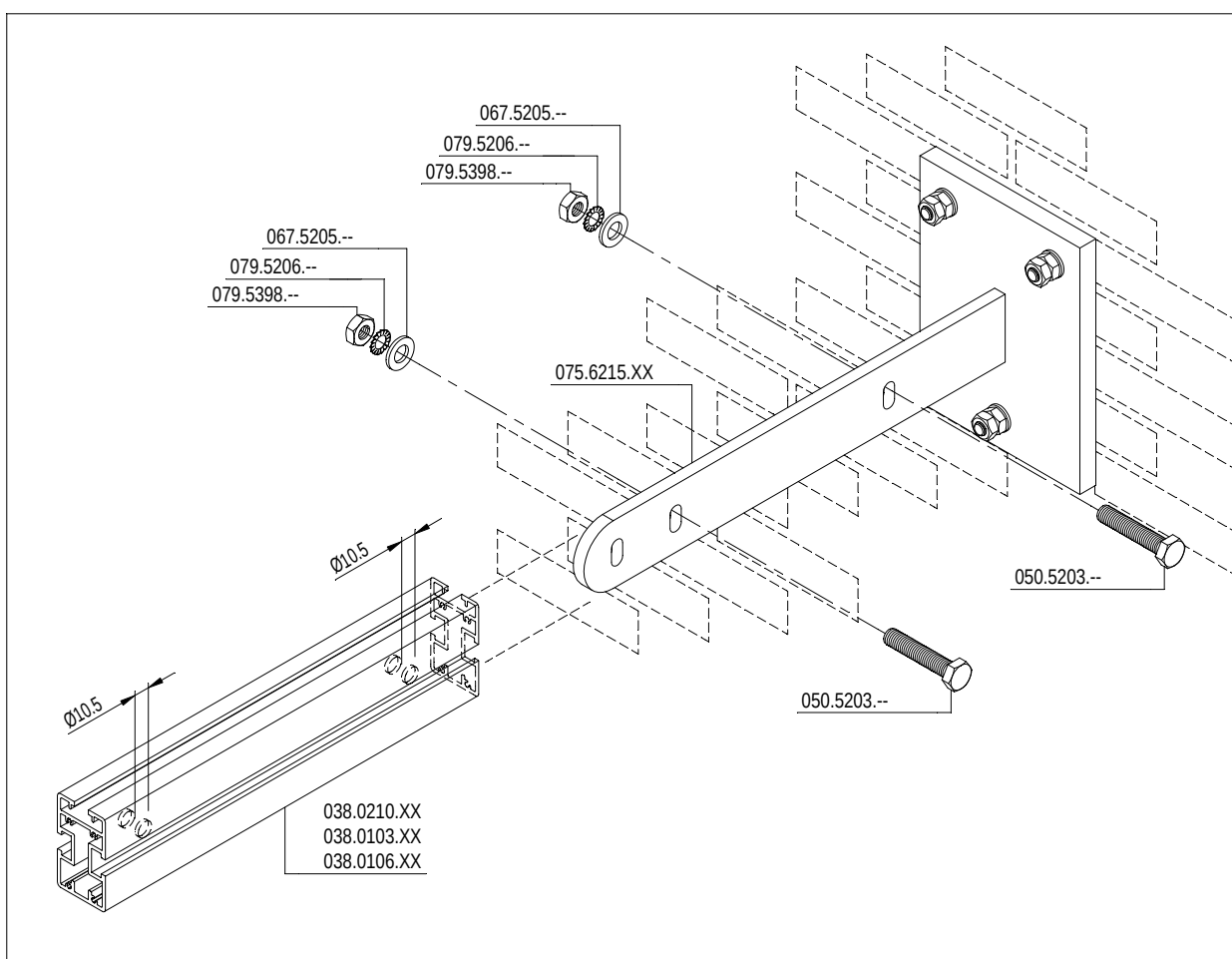
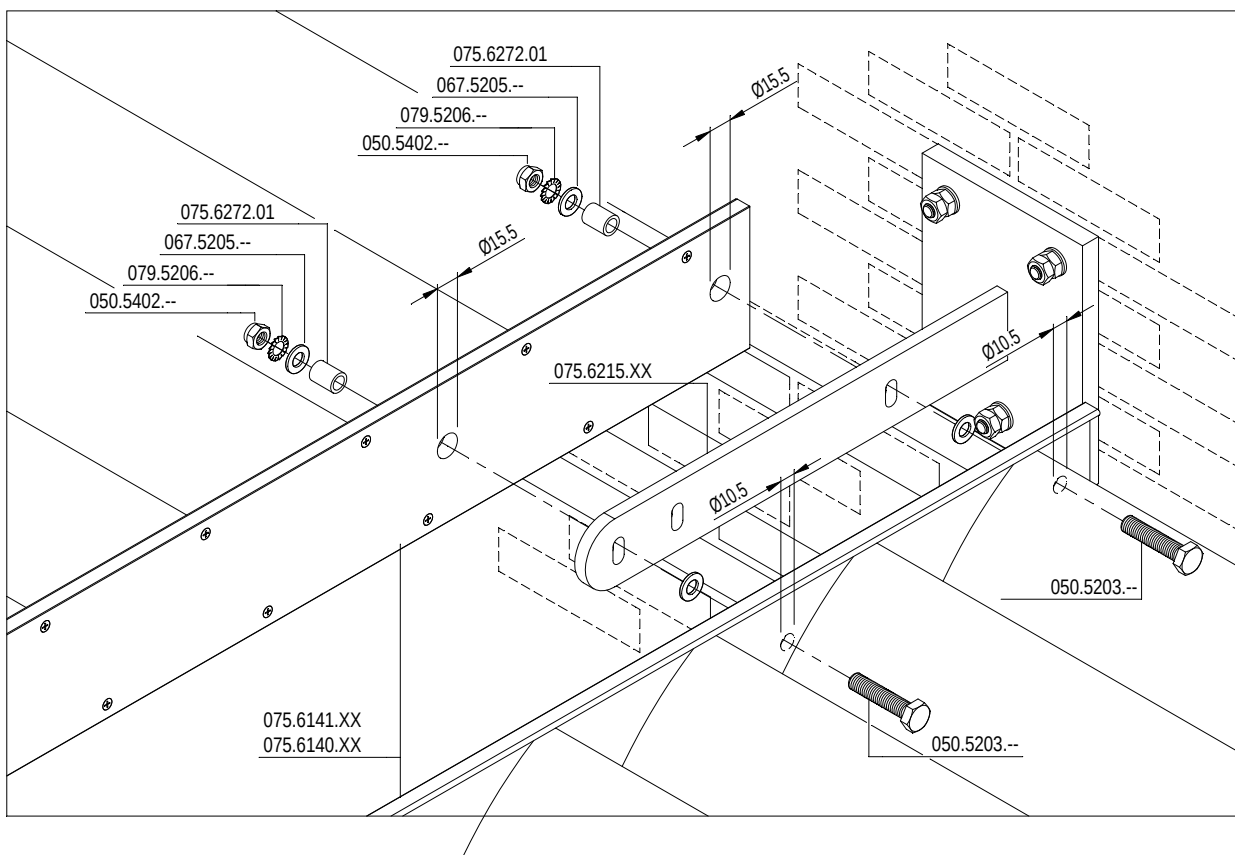
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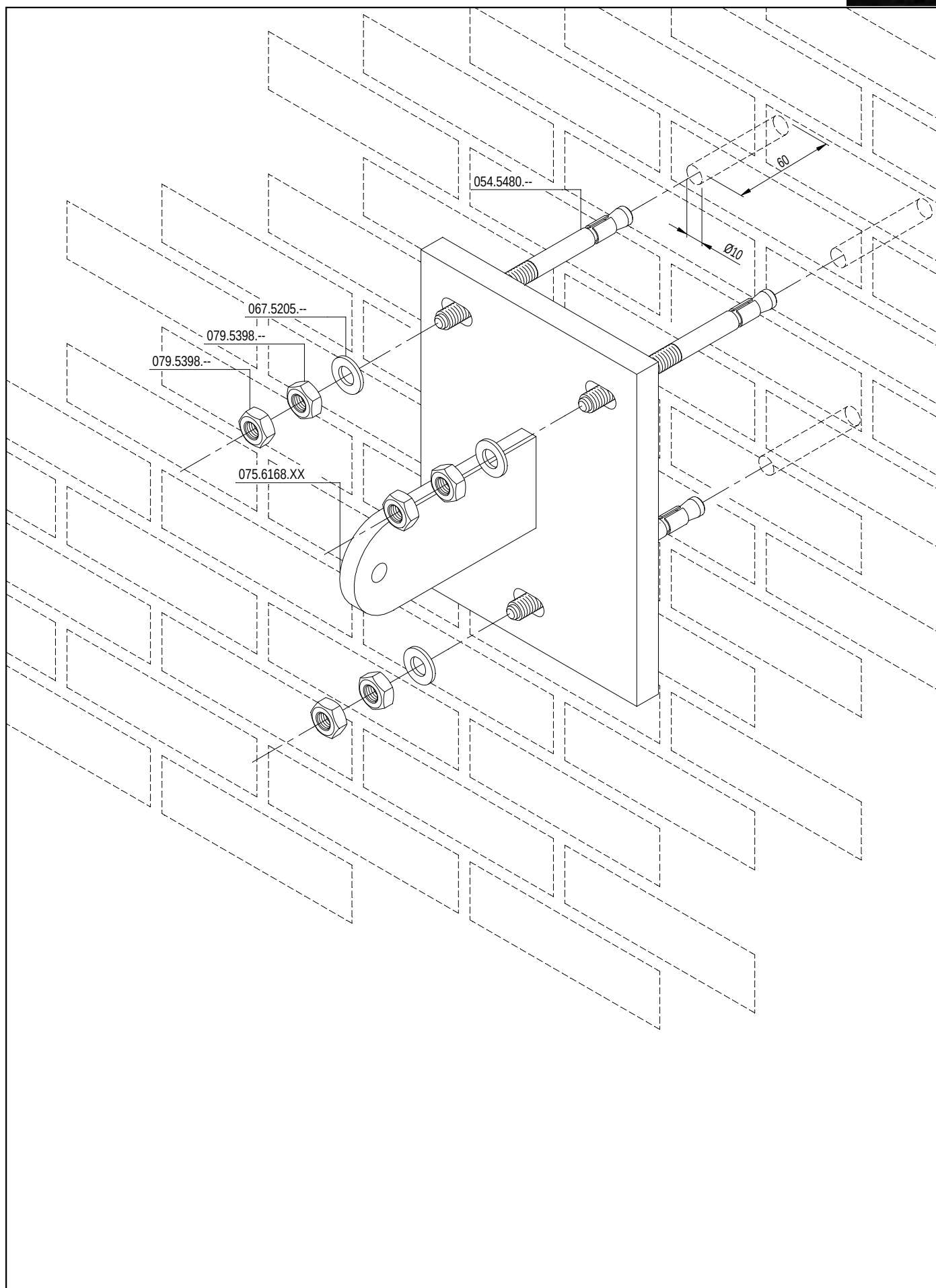




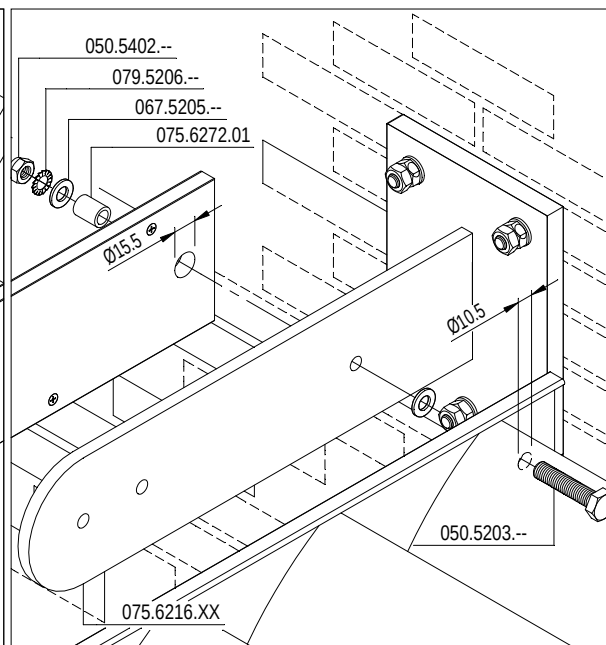
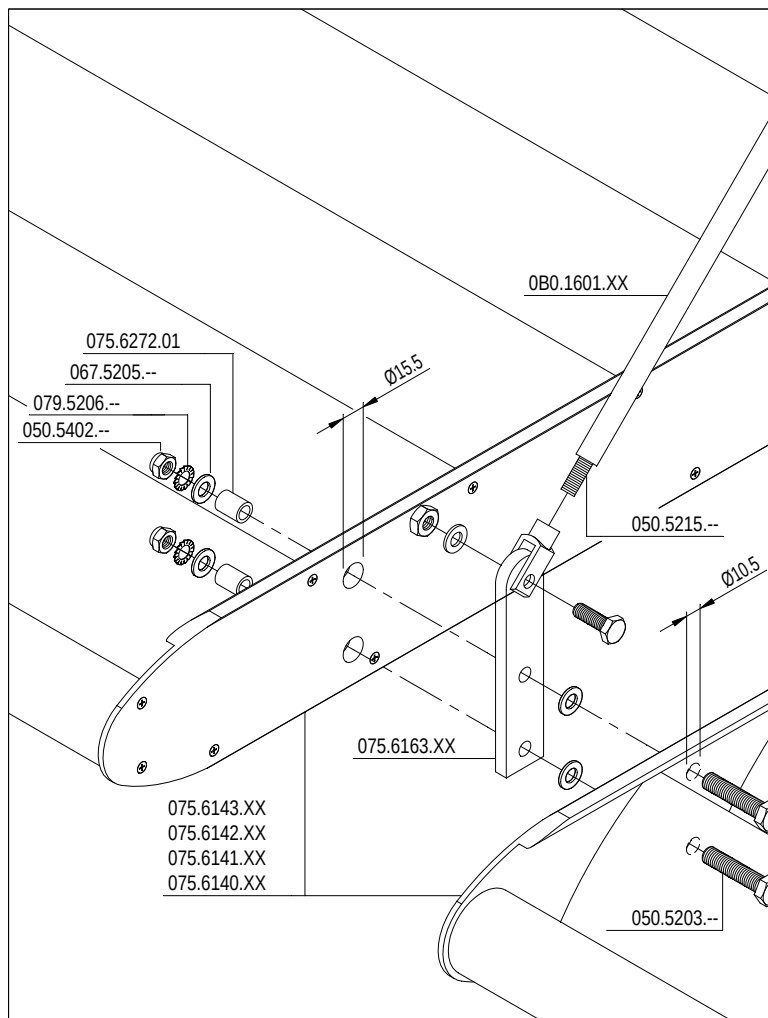
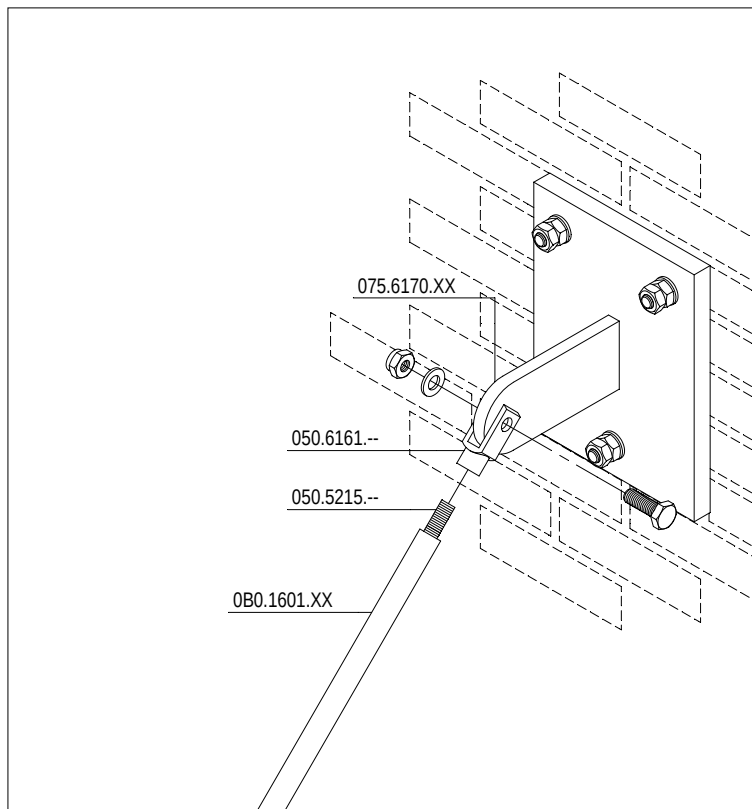
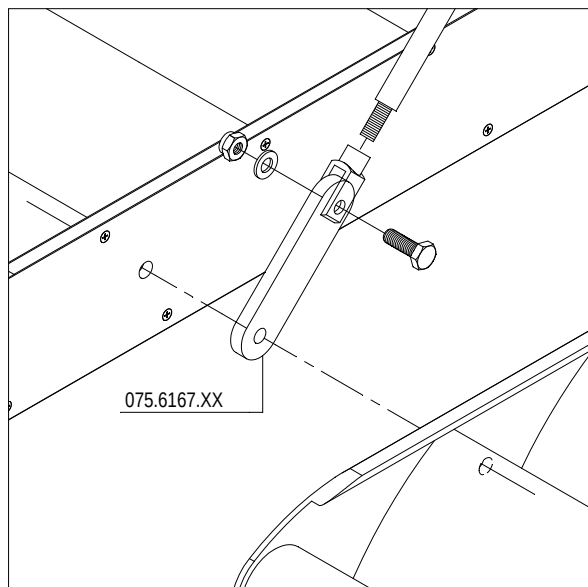


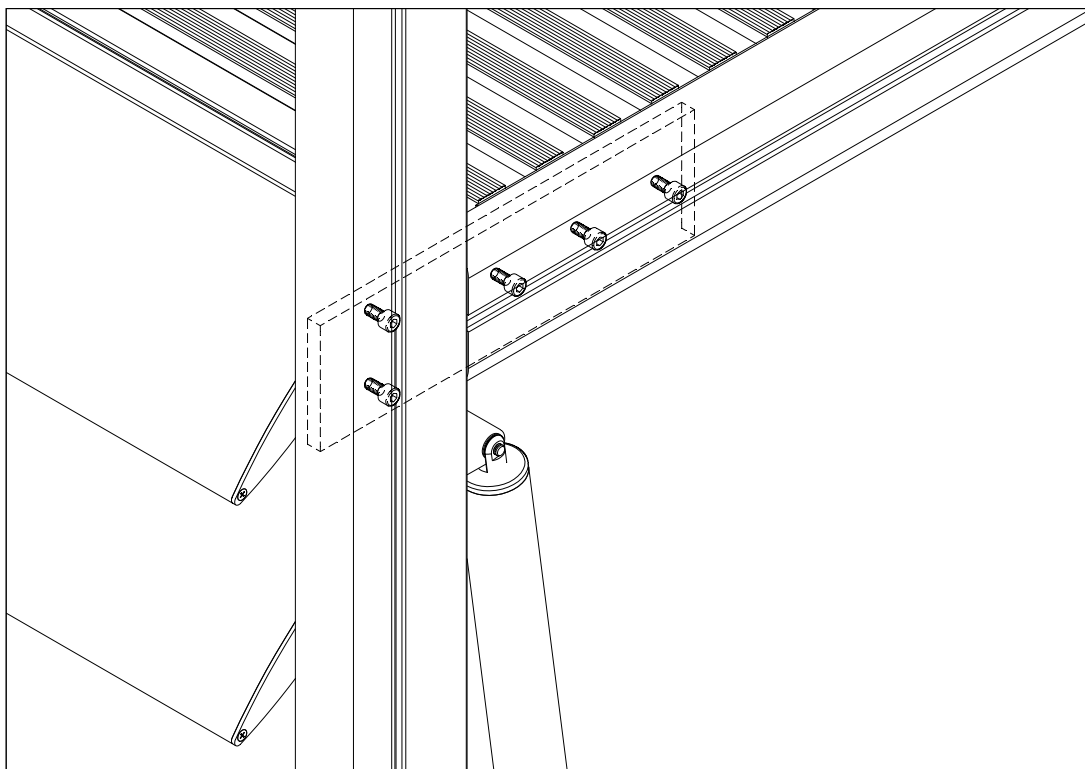
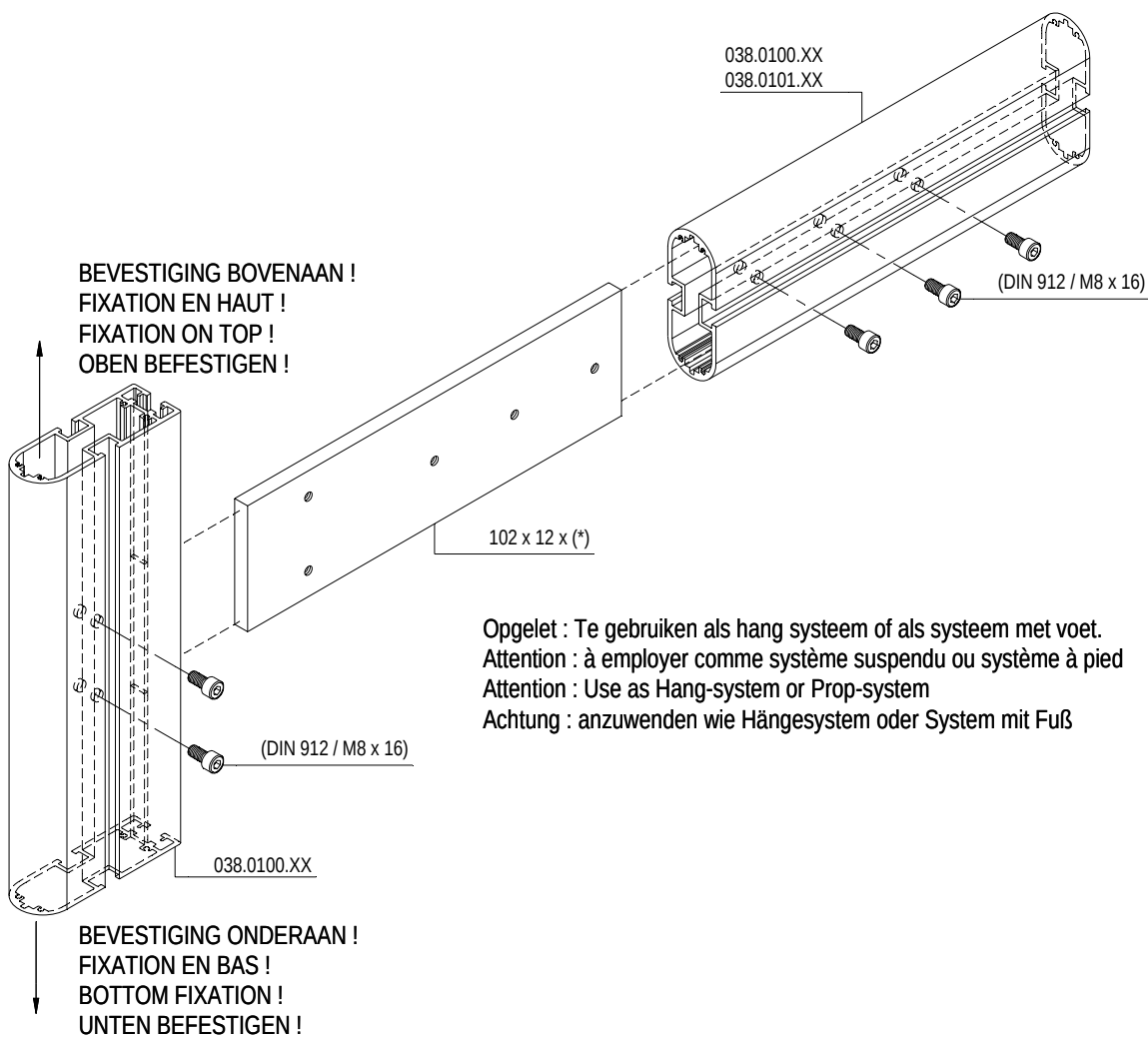


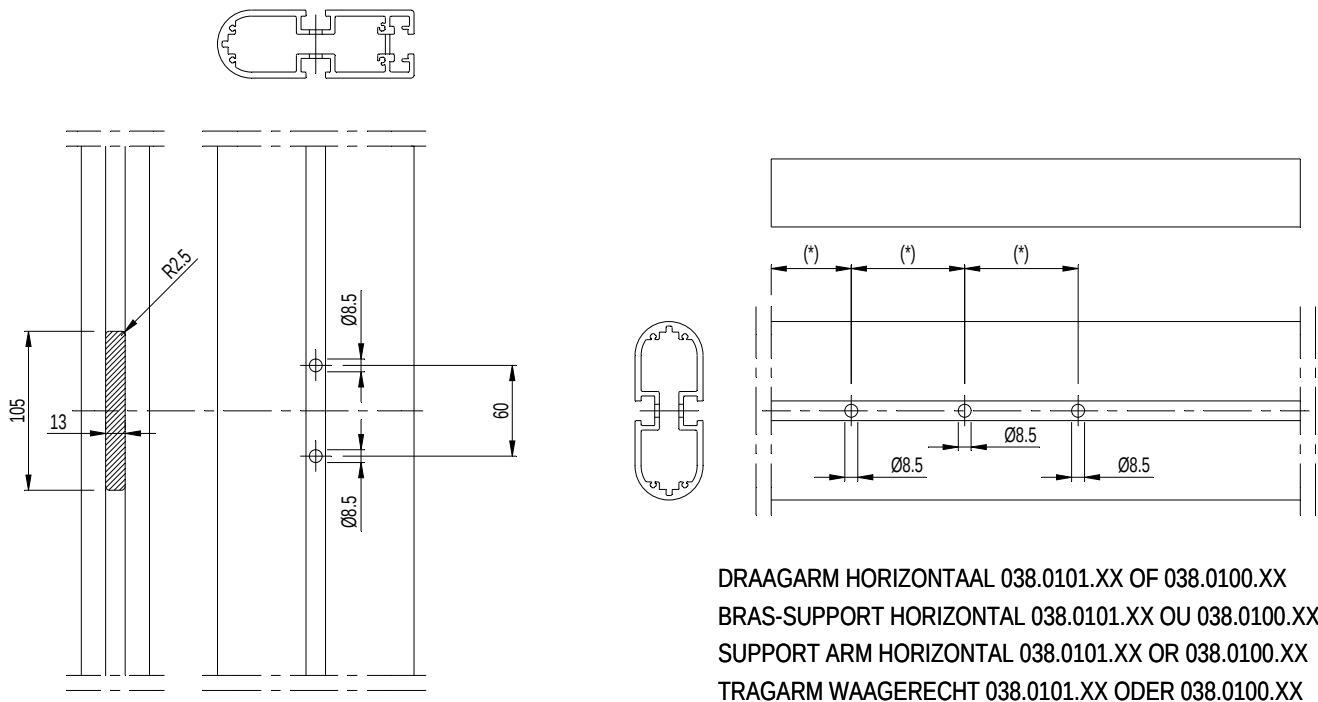




VARIANTE
VARIANT

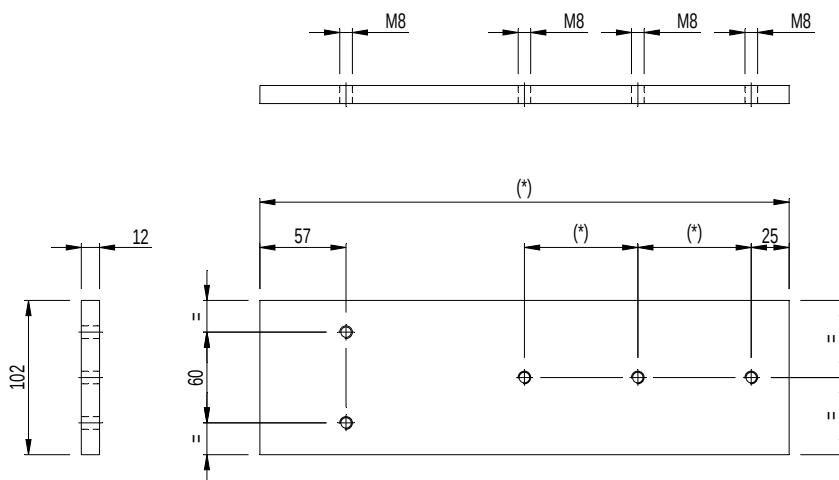






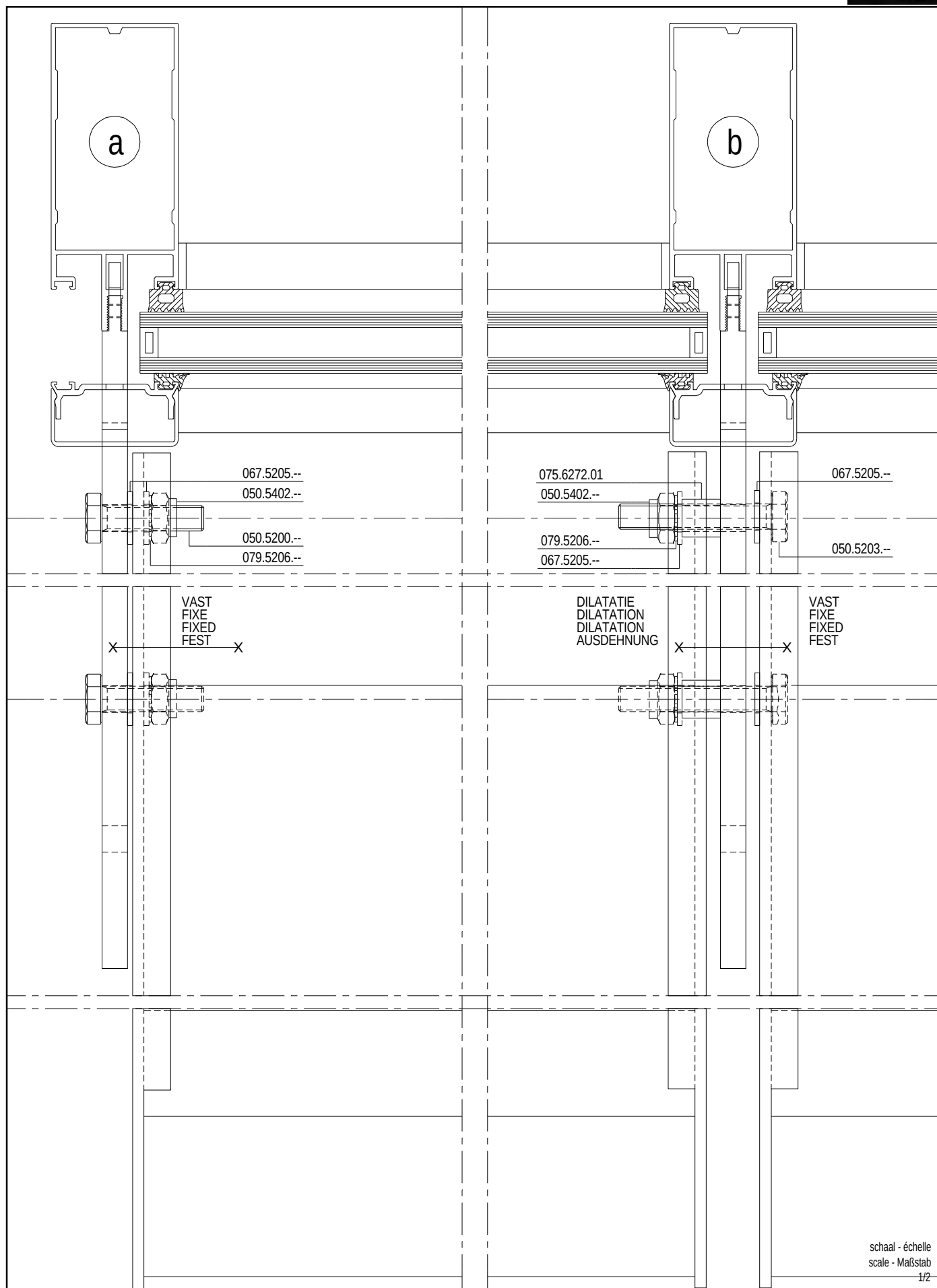
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BRAS-SUPPORT HORIZONTAL 038.0101.XX OU 038.0100.XX
SUPPORT ARM HORIZONTAL 038.0101.XX OR 038.0100.XX
TRAGARM WAAGERECHT 038.0101.XX ODER 038.0100.XX

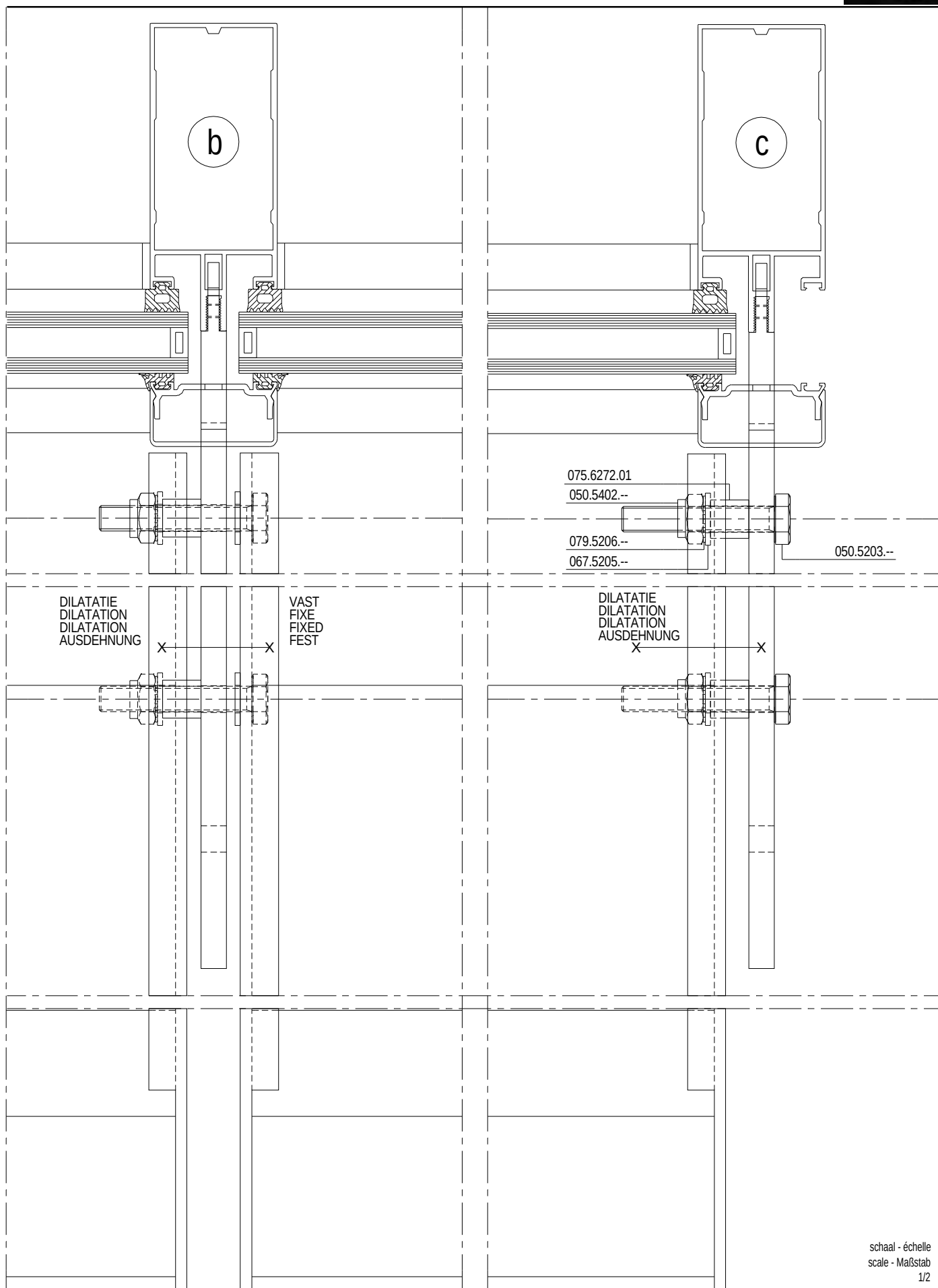
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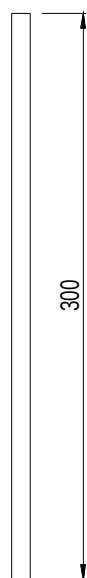
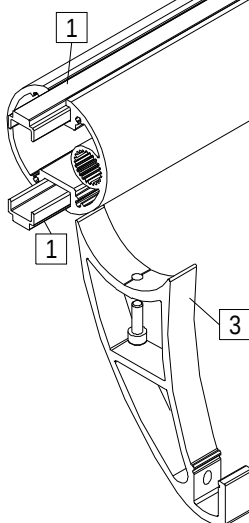
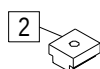
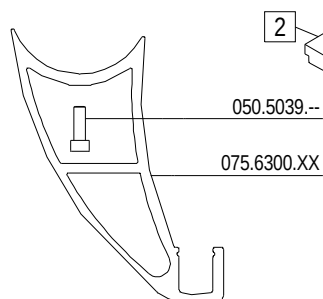
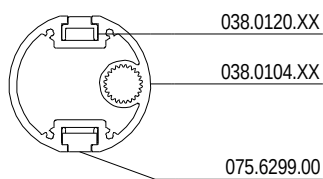


KOPPELPLAAT 102 mm x 12 mm x (mm*)
PLAQUE DE RACCORDEMENT 102 mm x 12 mm x (mm*)
CONNECTION PLATE 102 mm x 12 mm x (mm*)
KOPPLUNGSPLATTE 102 mm x 12 mm x (mm*)

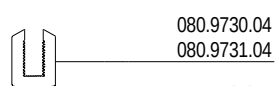
(*) = LENGTE AFHANKELIJK VAN DE AFMETINGEN VAN DE CONSTRUCTIE
(*) = LONGUEUR DEPENDANT DES DIMENSIONS DE LA CONSTRUCTION
(*) = LENGTH DEPENDING ON DIMENSIONS OF CONSTRUCTION
(*) = LAENGE ABHAENGIG VON DEN ABMESSUNGEN DER KONSTRUKTION



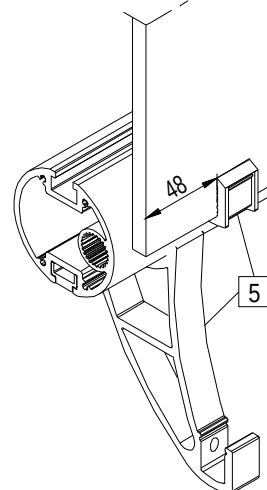
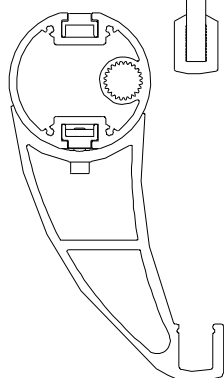
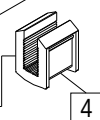




GLAS 10 MM OF 12 MM
VERRE 10 MM OU 12 MM
GLASS 10 MM OR 12 MM
VERGLASUNG 10 MM ODER 12 MM

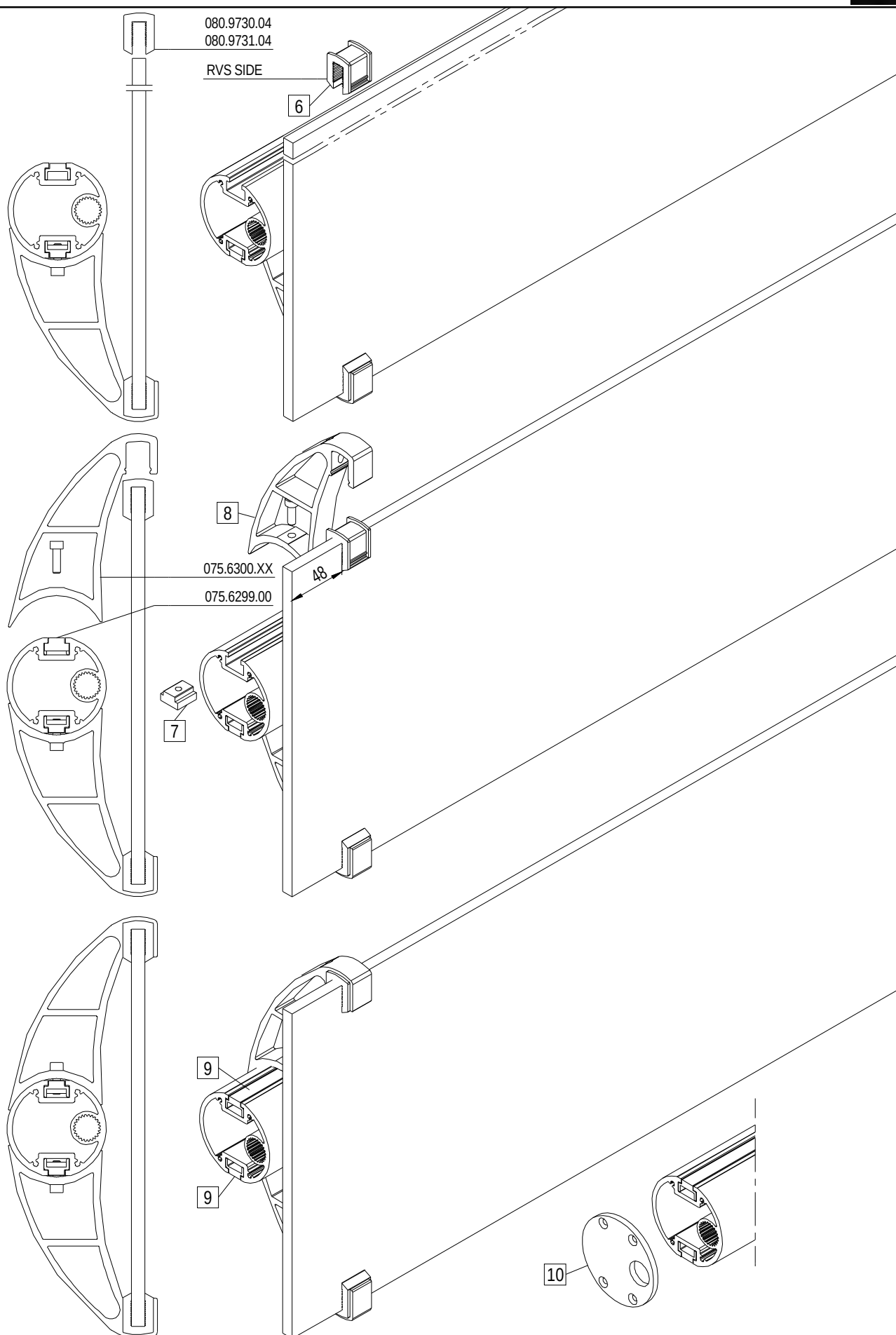


RVS SIDE



MONTAGEVOLGORDE
L'ORDRE DE MONTAGE
THE ORDER OF ASSEMBLY
MONTAGEREIHENFOLGE

1 2 3 .



G

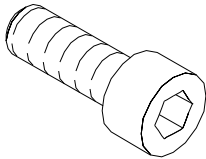
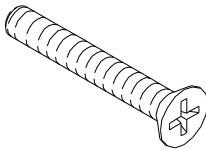
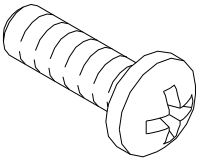
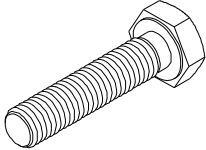
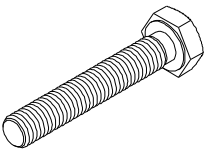
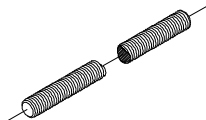
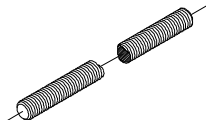
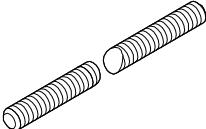
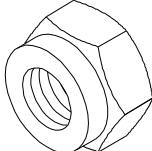
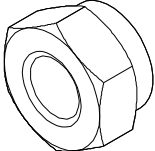
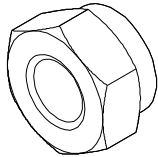
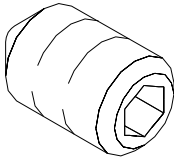
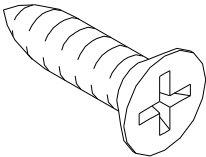
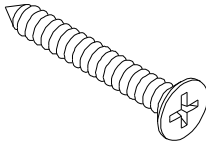
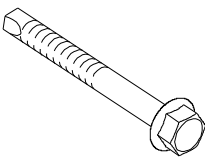
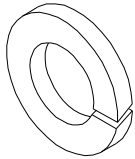
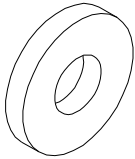
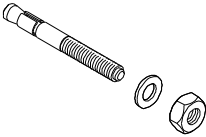
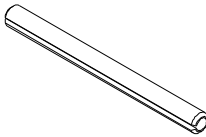
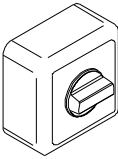
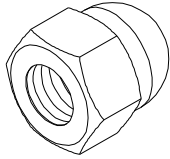
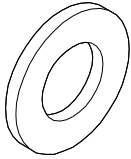
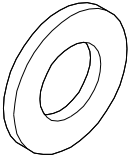
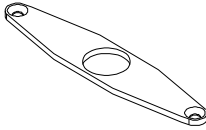
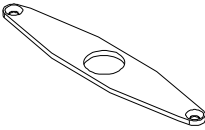
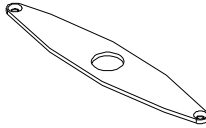
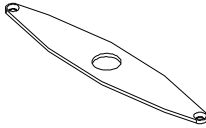
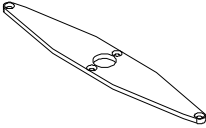
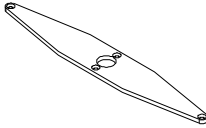
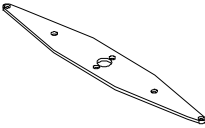
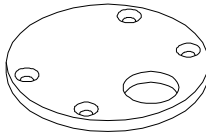
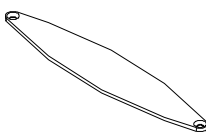
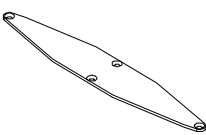
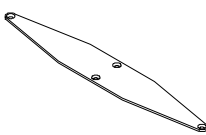
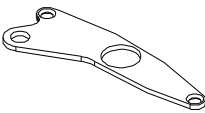
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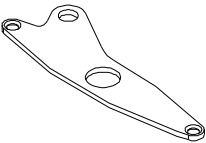
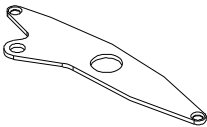
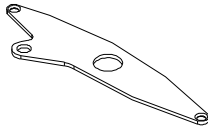
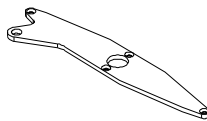
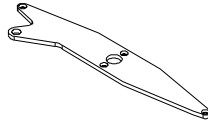
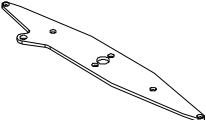
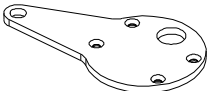
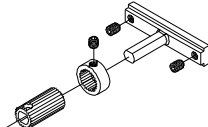
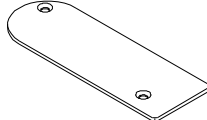
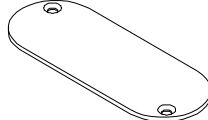
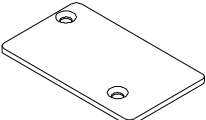
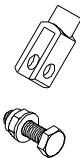
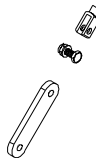
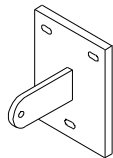
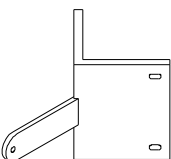
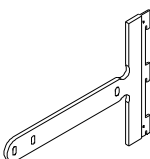
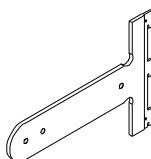
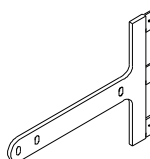
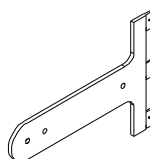
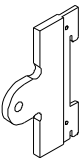
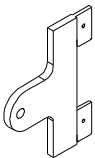
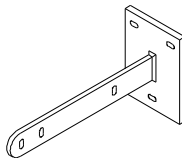
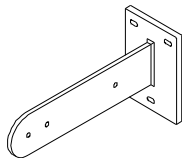
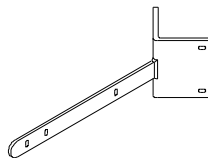
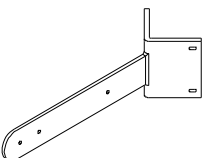
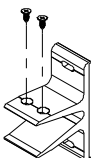
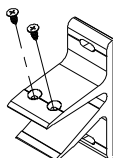
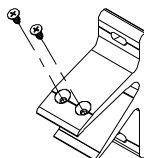
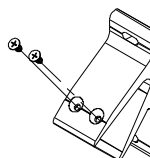
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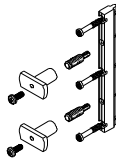
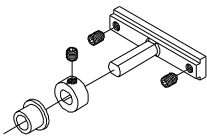
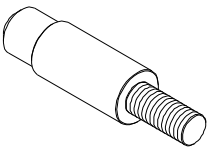
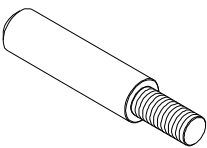
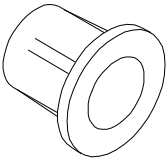
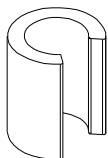
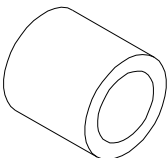
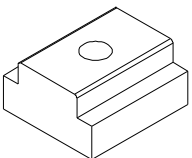
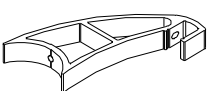
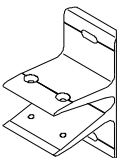
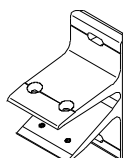
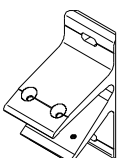
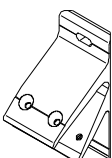
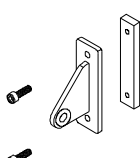
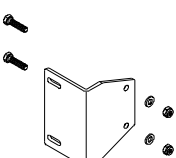
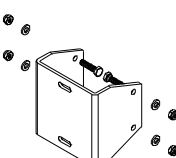
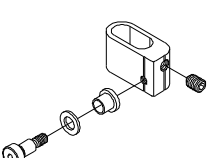
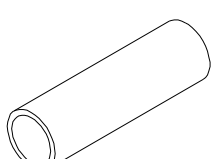
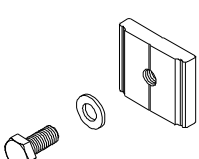
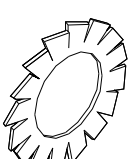
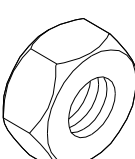
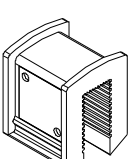
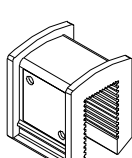
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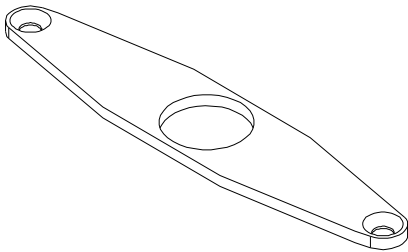
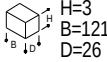
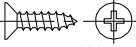
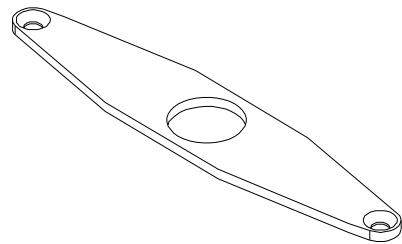
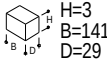
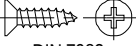
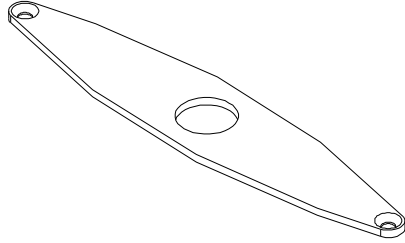
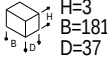
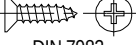
Zubehör

Art. N°			Art. N°		
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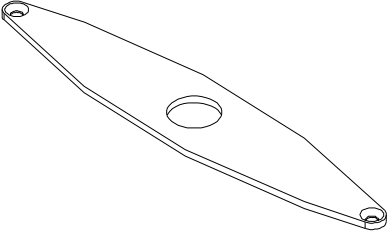
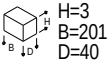
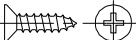
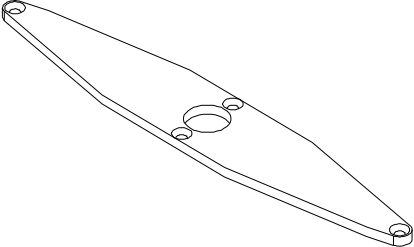
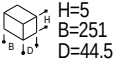
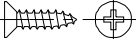
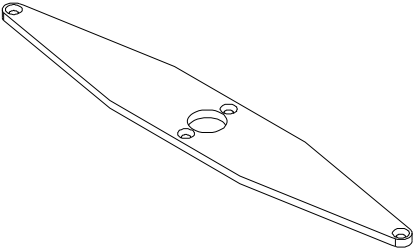
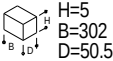
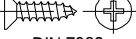
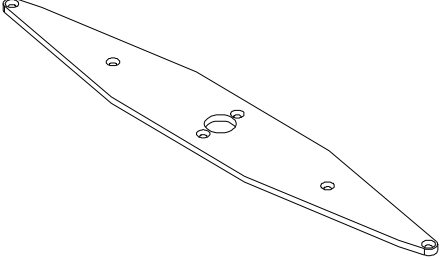
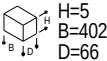
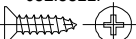
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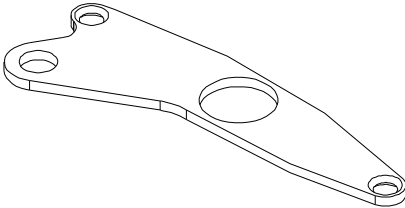
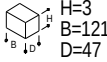
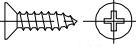
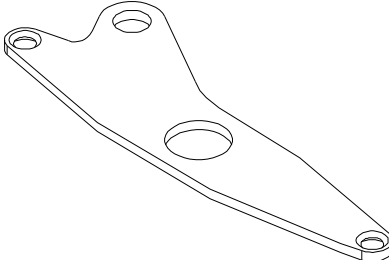
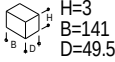
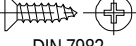
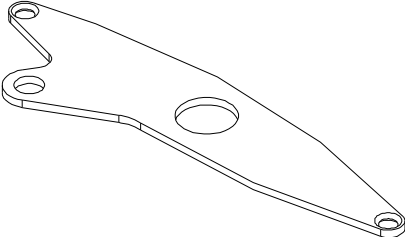
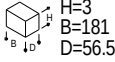
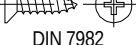
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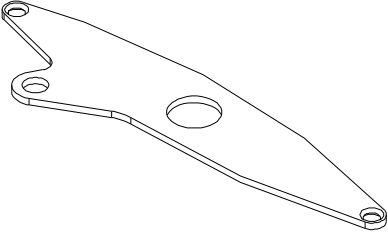
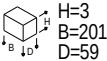
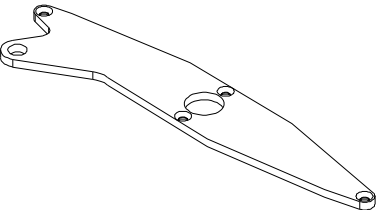
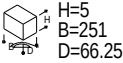
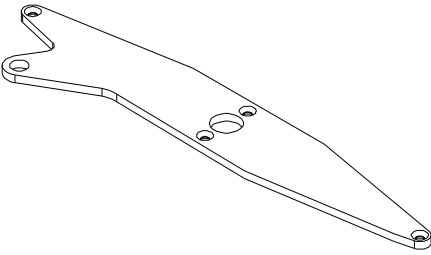
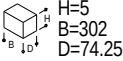
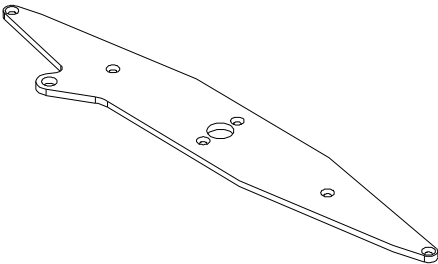
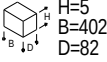
 	075.6020.XX EINDSTUK LAMEL 121MM PIECE FINALE LAME 121MM END PIECE LOUVRE 121MM ENDSTUECK LAMELLE 121MM	BS 100 038.1000.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6021.XX EINDSTUK LAMEL 141MM PIECE FINALE LAME 141MM END PIECE LOUVRE 141MM ENDSTUECK LAMELLE 141MM	BS 100 038.1001.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6022.XX EINDSTUK LAMEL 181MM PIECE FINALE LAME 181MM END PIECE LOUVRE 181MM ENDSTUECK LAMELLE 181MM	BS 100 038.1002.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16

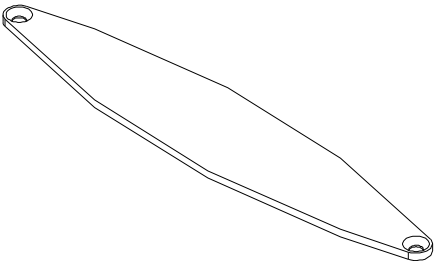
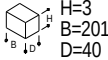
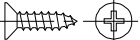
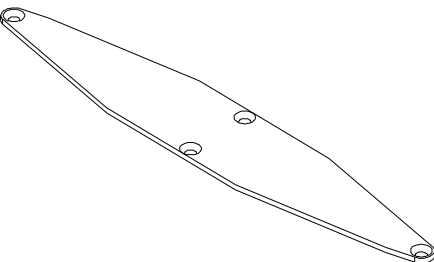
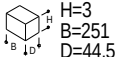
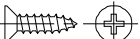
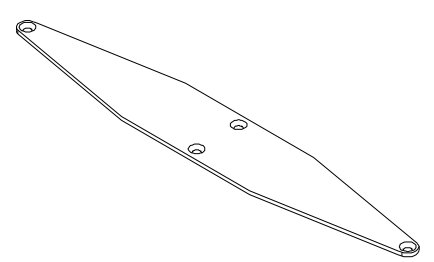
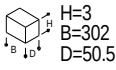
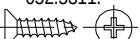


 	075.6023.XX EINSTUK LAMEL 201MM PIECE FINALE LAME 201MM END PIECE LOUVRE 201MM ENDSTUECK LAMELLE 201MM	BS 100 038.1003.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6024.XX EINSTUK LAMEL 251MM PIECE FINALE LAME 251MM END PIECE LOUVRE 251MM ENDSTUECK LAMELLE 251MM	BS 100 038.1004.XX	 4 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6025.XX EINSTUK LAMEL 302MM PIECE FINALE LAME 302MM END PIECE LOUVRE 302MM ENDSTUECK LAMELLE 302MM	BS 100 038.1005.XX	 4 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6026.XX EINSTUK LAMEL 402MM PIECE FINALE LAME 402MM END PIECE LOUVRE 402MM ENDSTUECK LAMELLE 402MM	BS 100 038.1006.XX	 6 st./pc 052.5311.--  DIN 7982 4.2 x 16

 	075.6070.XX EINDSTUK LAMEL 121MM PIECE FINALE LAME 121MM END PIECE LOUVRE 121MM ENDSTUECK LAMELLE 121MM	BS 100 038.1000.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6071.XX EINDSTUK LAMEL 141MM PIECE FINALE LAME 141MM END PIECE LOUVRE 141MM ENDSTUECK LAMELLE 141MM	BS 100 038.1001.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6072.XX EINDSTUK LAMEL 181MM PIECE FINALE LAME 181MM END PIECE LOUVRE 181MM ENDSTUECK LAMELLE 181MM	BS 100 038.1002.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16

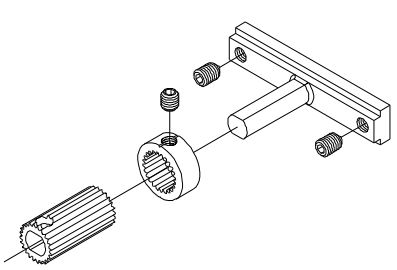
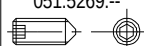
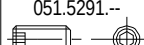
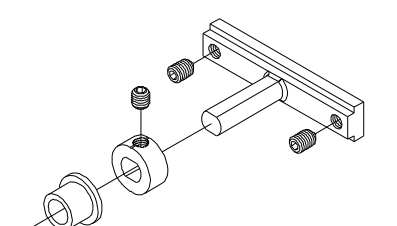
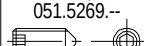
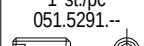
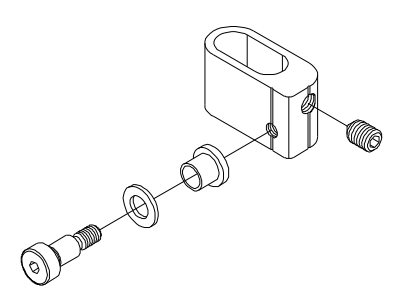
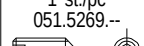
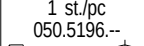


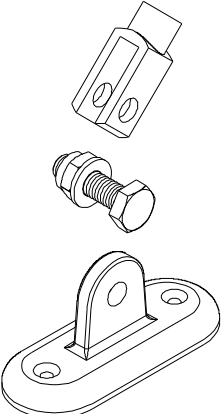
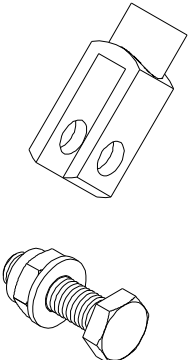
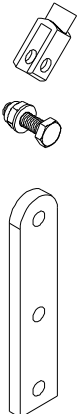
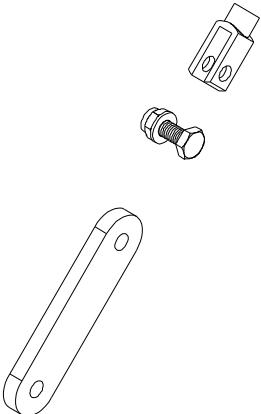
 	075.6073.XX EINSTUK LAMEL 200.5MM PIECE FINALE LAME 200.5MM END PIECE LOUVRE 200.5MM ENDSTUECK LAMELLE 200.5MM	BS 100 038.1003.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6074.XX EINSTUK LAMEL 251MM PIECE FINALE LAME 251MM END PIECE LOUVRE 251MM ENDSTUECK LAMELLE 251MM	BS 100 038.1004.XX	 4 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6075.XX EINSTUK LAMEL 302MM PIECE FINALE LAME 302MM END PIECE LOUVRE 302MM ENDSTUECK LAMELLE 302MM	BS 100 038.1005.XX	 4 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6076.XX EINSTUK LAMEL 402MM PIECE FINALE LAME 402MM END PIECE LOUVRE 402MM ENDSTUECK LAMELLE 402MM	BS 100 038.1006.XX	 6 st./pc 052.5311.--  DIN 7982 4.2 x 16

 	075.6033.XX EINDSTUK LAMEL 201MM PIECE FINALE LAME 201MM END PIECE LOUVRE 201MM ENDSTUECK LAMELLE 201MM	BS 100 038.1003.XX	 2 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6034.XX EINDSTUK LAMEL 251MM PIECE FINALE LAME 251MM END PIECE LOUVRE 251MM ENDSTUECK LAMELLE 251MM	BS 100 038.1004.XX	 4 st./pc 052.5311.--  DIN 7982 4.2 x 16
 	075.6035.XX EINDSTUK LAMEL 302MM PIECE FINALE LAME 302MM END PIECE LOUVRE 302MM ENDSTUECK LAMELLE 302MM	BS 100 038.1005.XX	 4 st./pc 052.5311.--  DIN 7982 4.2 x 16

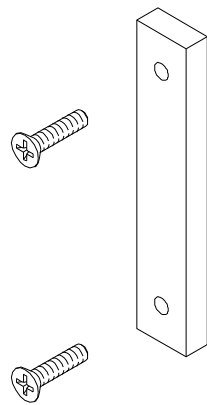


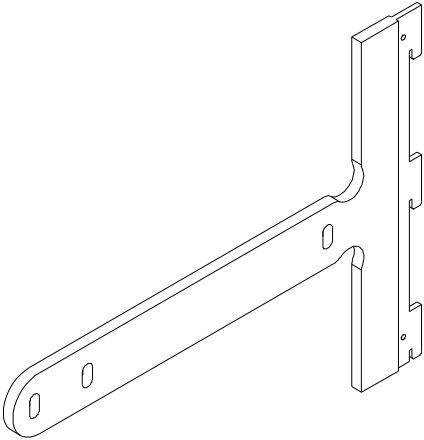
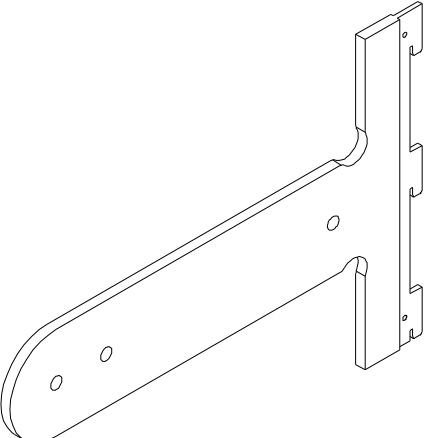
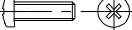
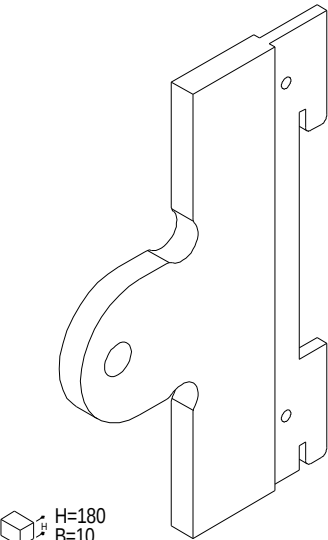
 	075.6100.XX EINDSTUK DRAAGARM PIECE FINALE BRAS-SUPPORT END PIECE SUPPORT ARM ENDSTUECK TRAGARM	BS 100 038.0100.XX	
 	075.6101.XX EINDSTUK DRAAGARM PIECE FINALE BRAS-SUPPORT END PIECE SUPPORT ARM ENDSTUECK TRAGARM	BS 100 038.0101.XX	
 	075.6106.XX EINDSTUK DRAAGARM PIECE FINALE BRAS-SUPPORT END PIECE SUPPORT ARM ENDSTUECK TRAGARM	BS 100 038.0106.XX	

	075.6088.-- BEVESTIGINGSSET VASTE LAMELLEN SET DE FIXATION LAMES FIXES SUPPORT SET FIXED LOUVRE BEFESTIGUNGSSATZ FESTE LAMELLEN	BS 100	2 st./pc 051.5269.--  DIN 914 M8 x 12 1 st./pc 051.5291.--  DIN 913 M8 x 8
	075.6258.-- BEVESTIGINGSSET BEWEEGBARE LAMELLEN SET DE FIXATION LAMES MOBILES SUPPORT SET MOVABLE LOUVRE BEFESTIGUNGSSATZ BEWEGLICHE LAMELLEN	BS 100	2 st./pc 051.5269.--  DIN 914 M8 x 12 1 st./pc 051.5291.--  DIN 913 M8 x 8
	075.6504.XX KLEMSET AANDRIJFSTANG SET DE SERRAGE BARRE D'ENTRAINEMENT CLAMP SET DRIVE BAR KLEMMSATZ KURBELSTANGE	BS 100 038.0160.XX	1 st./pc 051.5269.--  DIN 914 M8 x 12 1 st./pc 050.5196.--  ISO 7379 (M6) 8 x 12

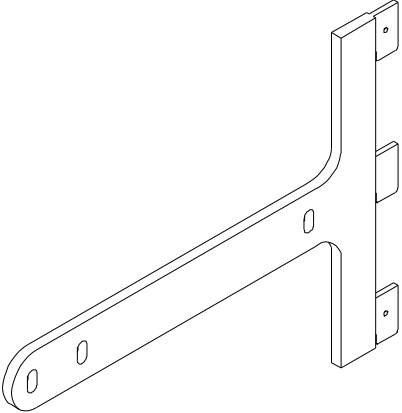
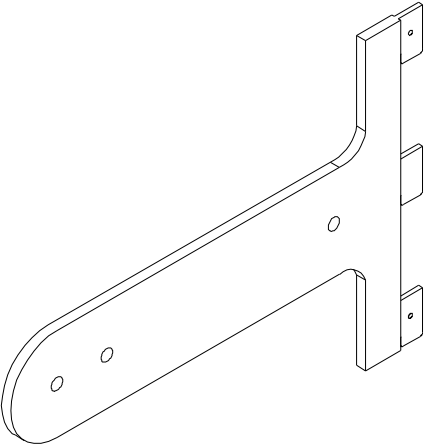
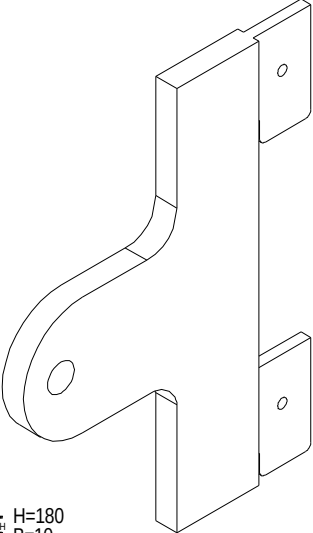
	075.6160.XX BEVESTIGINGSSET DRAADSTANG SET DE FIXATION BARRE FILETEE FIXING PLATE SET THREADED ROD BEFESTIGUNGSSATZ GEWINDESTANGE	BS 100 038.0100.XX 038.0106.XX CR 120		
	075.6161.-- GAFFEL FOURCHE FORNED HEAD GABELGELENKE	BS 100 BS 30		
	075.6163.XX BEVESTIGINGSSET DRAADSTANG SET DE FIXATION BARRE FILETEE FIXING PLATE SET THREADED ROD BEFESTIGUNGSSATZ GEWINDESTANGE	BS 100 038.0100.XX		
	075.6167.XX BEVESTIGINGSSET DRAADSTANG SET DE FIXATION BARRE FILETEE FIXING PLATE SET THREADED ROD BEFESTIGUNGSSATZ GEWINDESTANGE	BS 100 038.0100.XX 038.0210.XX BS 30		

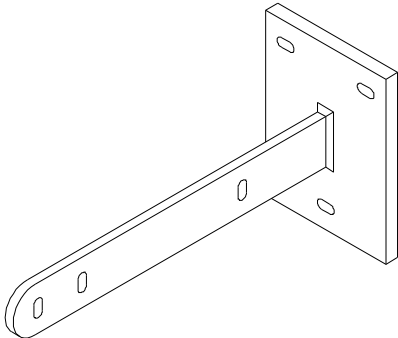
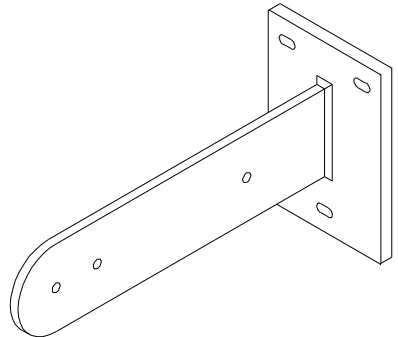
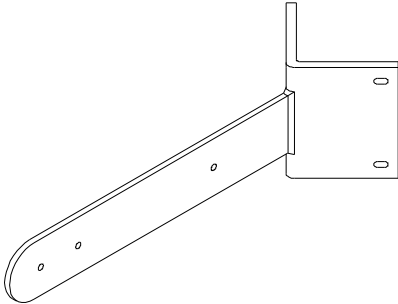
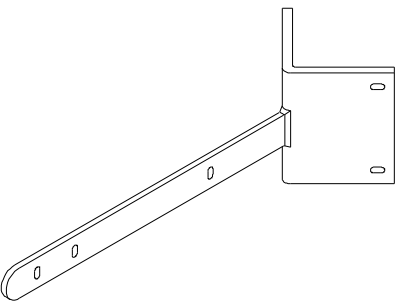


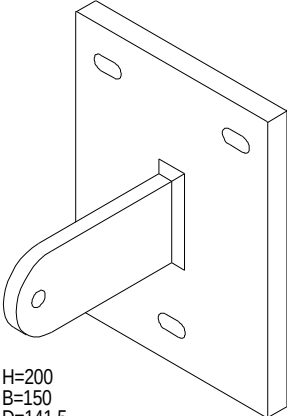
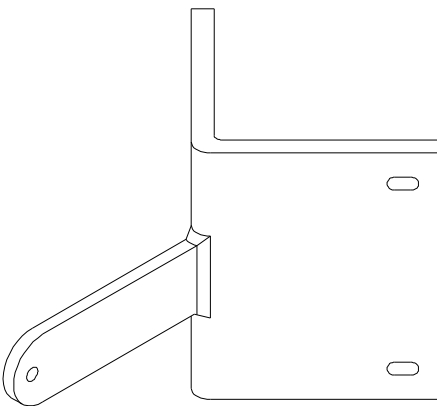
	075.6506.-- BEVESTIGINGSSTUK PIECE DE FIXATION FIXING PIECE BEFESTIGUNGSSTUECK	BS 100 038.0100.XX 038.0106.XX		

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 H=315 B=10 D=456.5	075.6201.XX GEVELBEVESTIGING FIXATION FAÇADE FIXATION CURTAIN WALL FASSADEBEFESTIGUNG	BS 100 038.0100.XX 038.0101.XX 038.0210.XX BS 30 CW 50	 2 st./pc 050.5119.--  DIN 7985 M5 x 12
 H=180 B=10 D=118	075.6211.XX BEVESTIGINGSSTUK PIECE DE FIXATION FIXING PIECE BEFESTIGUNGSSTUECK	CW 50 BS 100 BS 30	 2 st./pc 050.5119.--  DIN 7985 M5 x 12

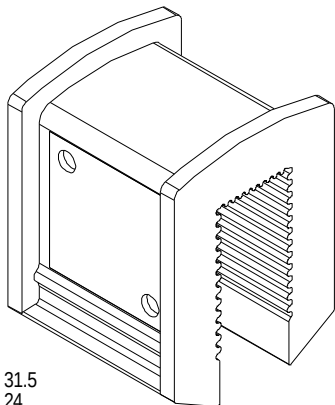


  H=315 B=10 D=474	075.6202.XX GEVELBEVESTIGING FIXATION FAÇADE FIXATION CURTAIN WALL FASSADEBEFESTIGUNG	CW 86 BS 100 BS 30		
  H=315 B=10 D=502.5	075.6203.XX GEVELBEVESTIGING FIXATION FAÇADE FIXATION CURTAIN WALL FASSADEBEFESTIGUNG	CW 86 BS 100		
  H=180 B=10 D=164	075.6213.XX BEVESTIGINGSSTUK PIECE DE FIXATION FIXING PIECE BEFESTIGUNGSSTUECK	CW 86 BS 100 BS 30		

 H B D H=200 B=150 D=410	075.6215.XX MUURBEVESTIGING FIXATION MURALE WALL FIXATION MAUERBEFESTIGUNG	BS 100 038.0103.XX 038.0106.XX 038.0210.XX BS 30		
 H B D H=220 B=150 D=430	075.6216.XX MUURBEVESTIGING FIXATION MURALE WALL BRACKETS MAUERBEFESTIGUNG	BS 100 038.0100.XX 038.0101.XX		
 H B D H=200 B=10 D=580	075.6217.XX MUURBEVESTIGING FIXATION MURALE WALL BRACKETS MAUERBEFESTIGUNG	BS 100 038.0103.XX 038.0106.XX 038.0210.XX BS 30		
 H B D H=200 B=10 D=580	075.6218.XX MUURBEVESTIGING FIXATION MURALE WALL FIXATION MAUERBEFESTIGUNG	BS 100 038.0100.XX 038.0101.XX		

 H=200 B=150 D=141.5	075.6170.XX MUURBEVESTIGING FIXATION MURALE WALL FIXATION MAUERBEFESTIGUNG	BS 100 BS 30		
	075.6171.XX MUURBEVESTIGING FIXATION MURALE WALL FIXATION MAUERBEFESTIGUNG	BS 100 BS 30		

	075.6027.XX EINDSTUK Ø76MM PIECE FINALE Ø76MM END PIECE Ø76MM ENDSTUECK Ø76MM	BS 100	
	075.6077.XX EINDSTUK Ø76MM PIECE FINALE Ø76MM END PIECE Ø76MM ENDSTUECK Ø76MM	BS 100	
	075.6299.00 BEVESTIGING FIXATION FIXINGS BEFESTIGUNG	BS 100	
	075.6300.XX GLASHOUDER SUPPORT DE VITRAGE PANEL GRIP GLASHALTEPROFIL	BS 100	



080.9730.04

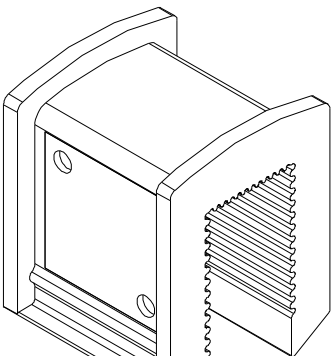
VORMSTUK GLAS
10MM

PIECE MOULEE VERRE
10MM

MOULDING PIECE GLASS
10MM

FORMSTUECK GLAS
10MM

BS 100



080.9731.04

VORMSTUK GLAS
12MM

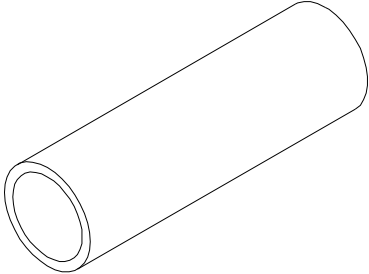
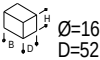
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12MM

MOULDING PIECE GLASS
12MM

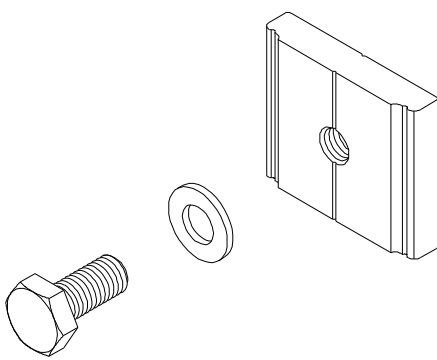
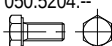
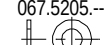
FORMSTUECK GLAS
12MM

BS 100

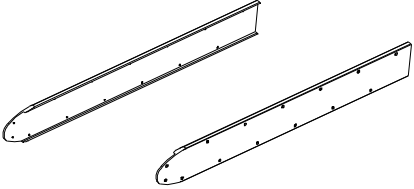
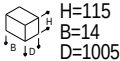
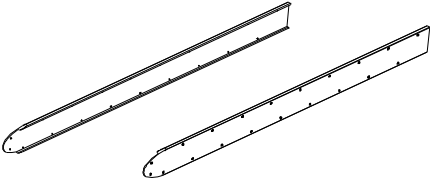
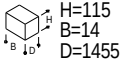
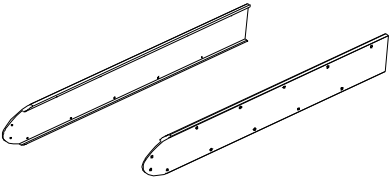
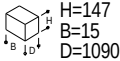
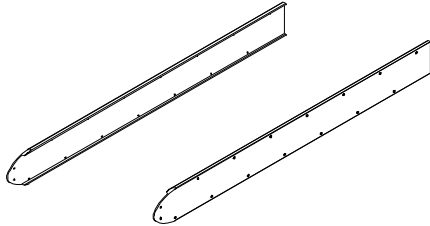
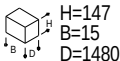


 	075.7000.XX AFSTANDSSTUK PIECE D'ECARTEMENT DISTANCE PIECE DISTANZSTUECK	BS 100		

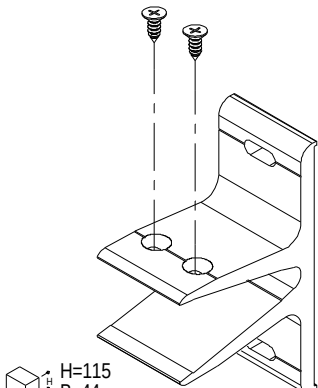
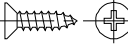
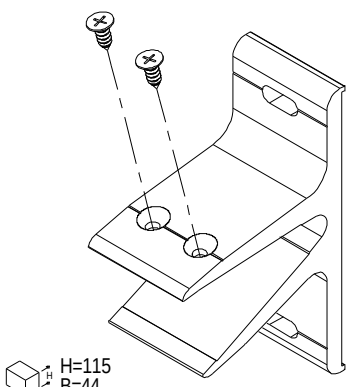
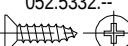
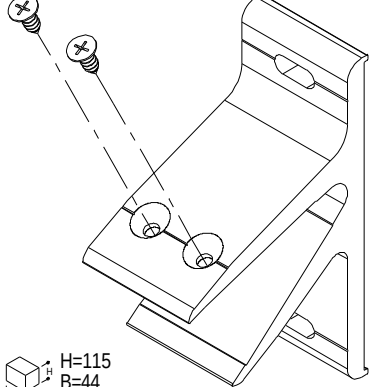
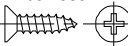
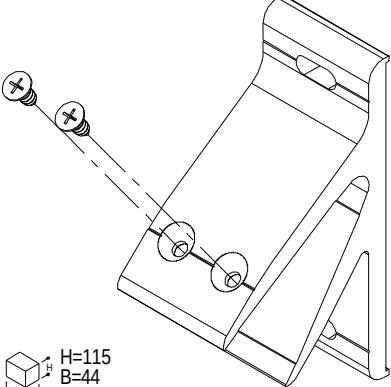
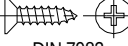


	075.7001.XX KLEMSTUK CLIP CLIP BEFESTIGUNGSKLOTZ	BS 100 038.0200.XX 038.0230.XX		1 st./pc 050.5204.--  DIN 933 M10 x 22 1 st./pc 067.5205.--  DIN 125A Ø10
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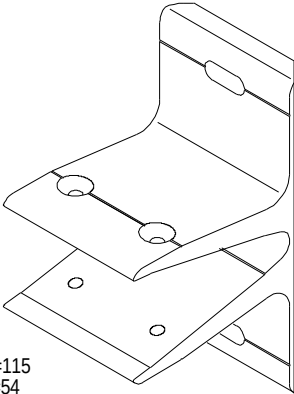
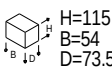
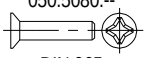
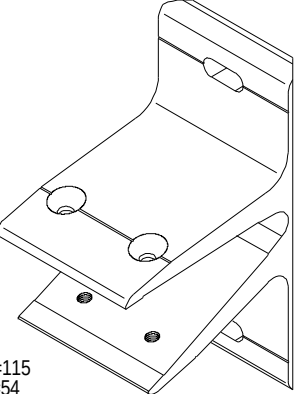
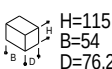
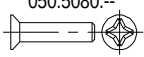
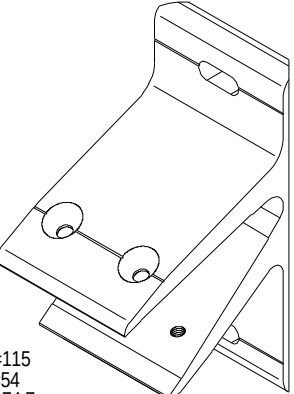
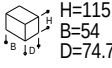
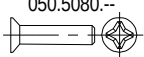
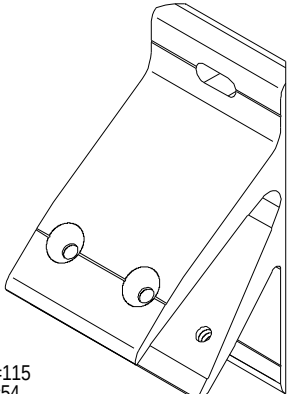
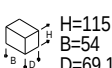
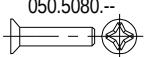


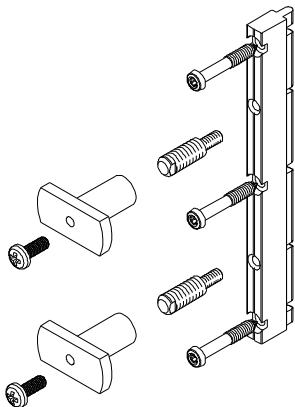
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 	075.6141.XX ZIJARM 115x1455MM BRAS LATERAL 115x1455MM SIDE ARM 115x1455MM SEITENARM 115x1455MM	BS 100 038.1001.XX		
 	075.6142.XX ZIJARM 147x1090MM BRAS LATERAL 147x1090MM SIDE ARM 147x1090MM SEITENARM 147x1090MM	BS 100 038.1002.XX		
 	075.6143.XX ZIJARM 147x1480MM BRAS LATERAL 147x1480MM SIDE ARM 147x1480MM SEITENARM 147x1480MM	BS 100 038.1002.XX		



 H=115 B=44 D=73.5	075.6230.XX LAMEL HOUDER 0° SUPPORT-LAME 0° LOUVRE GRIP 0° LAMELLENHALTER 0°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	2 st./pc 052.5332.--  DIN 7982 4.8 x 13
 H=115 B=44 D=76.2	075.6231.XX LAMEL HOUDER 15° SUPPORT-LAME 15° LOUVRE GRIP 15° LAMELLENHALTER 15°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	2 st./pc 052.5332.--  DIN 7982 4.8 x 13
 H=115 B=44 D=74.7	075.6232.XX LAMEL HOUDER 30° SUPPORT-LAME 30° LOUVRE GRIP 30° LAMELLENHALTER 30°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	2 st./pc 052.5332.--  DIN 7982 4.8 x 13
 H=115 B=44 D=69.1	075.6233.XX LAMEL HOUDER 45° SUPPORT-LAME 45° LOUVRE GRIP 45° LAMELLENHALTER 45°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	2 st./pc 052.5332.--  DIN 7982 4.8 x 13



 	075.6330.XX LAMEL HOUDER 0° SUPPORT-LAME 0° LOUVRE GRIP 0° LAMELLENHALTER 0°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	 2 st./pc 050.5080.--  DIN 965 M5 x 40
 	075.6331.XX LAMEL HOUDER 15° SUPPORT-LAME 15° LOUVRE GRIP 15° LAMELLENHALTER 15°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	 2 st./pc 050.5080.--  DIN 965 M5 x 40
 	075.6332.XX LAMEL HOUDER 30° SUPPORT-LAME 30° LOUVRE GRIP 30° LAMELLENHALTER 30°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	 2 st./pc 050.5080.--  DIN 965 M5 x 40
 	075.6333.XX LAMEL HOUDER 45° SUPPORT-LAME 45° LOUVRE GRIP 45° LAMELLENHALTER 45°	BS 100 038.1003.XX 038.1004.XX 038.1005.XX	 2 st./pc 050.5080.--  DIN 965 M5 x 40



075.6245.--

BEVESTIGINGSSET LAMELHOUDER

SET DE FIXATION SUPPORT-LAME

LOUVRE GRIP BRACKET SET

BEFESTIGUNGSSATZ LAMELLENHALTER

BS 100
075.6230.XX
075.6231.XX
075.6232.XX
075.6233.XX

3 st./pc
053.5467.--



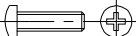
REYNAERS
6.3 x 40

2 st./pc
075.6227.--



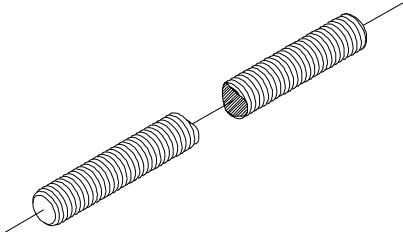
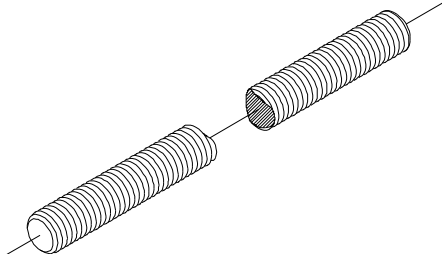
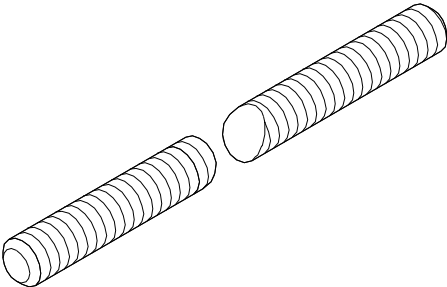
REYNAERS
M10/M6 x 27.5

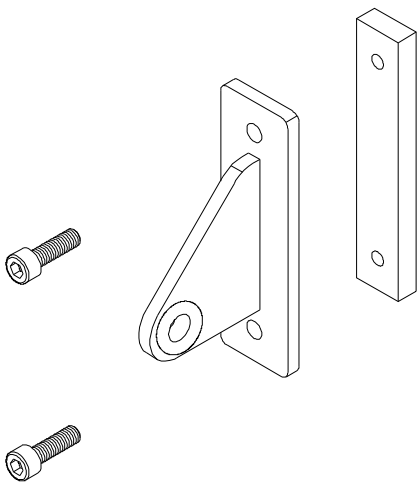
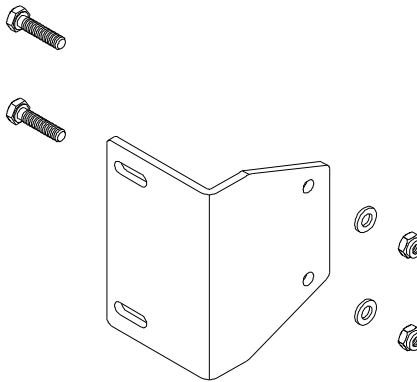
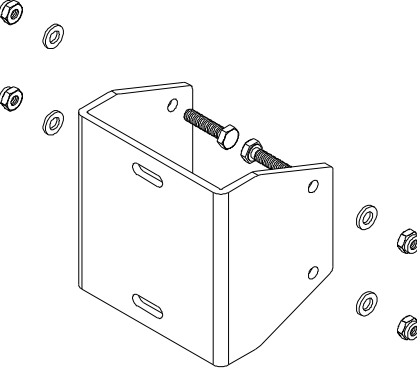
2 st./pc
050.5116.--

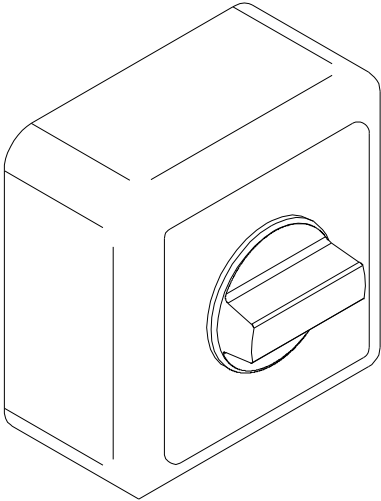


DIN 7985
M6 x 16



	050.5215.-- DRAADSTANG M10x2M BARRE FILETEE M10x2M THREADED ROD M10x2M GEWINDESTANGE M10x2M	VISION 50 CR 120 BS 100 BS 30		
	050.5216.-- DRAADSTANG M12x3M BARRE FILETEE M12x3M THREADED ROD M12x3M GEWINDESTANGE M12x3M	BS 100 OB0.1601.XX STANDARDS CR 120 BS 30		
	050.5220.-- DRAADSTANG M10x1M VIS M10x1M SCREW M10x1M SCHRAUBE M10x1M	VISION 50 BS 100 BS 20		

	075.6501.-- BEVESTIGINGSSET SET DE FIXATION FIXATION SET BEFESTIGUNGSSATZ	BS 100 038.0100.XX 038.0106.XX		
 H=100 B=75 D=64	075.6502.-- BEVESTIGINGSSTUK PIECE DE FIXATION FIXING PIECE BEFESTIGUNGSSTUECK	BS 100 038.0160.XX		
 H=100 B=75 D=98	075.6503.-- BEVESTIGINGSSTUK PIECE DE FIXATION FIXING PIECE BEFESTIGUNGSSTUECK	BS 100 038.0160.XX		



060.6913.01

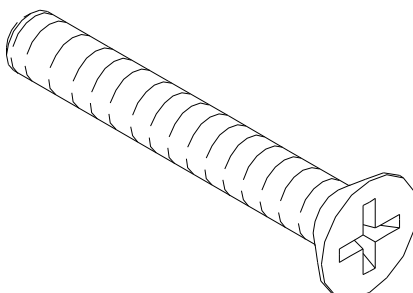
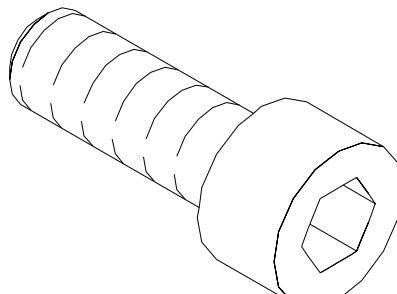
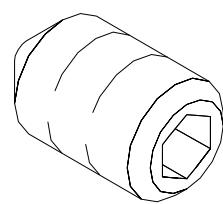
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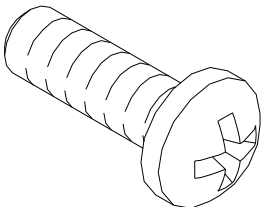
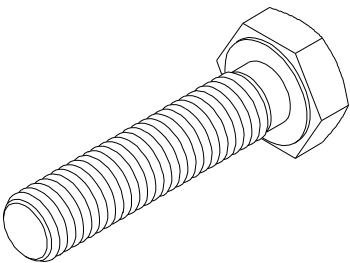
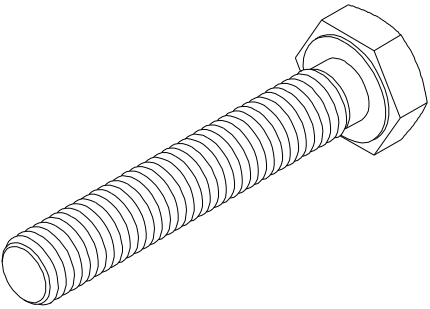
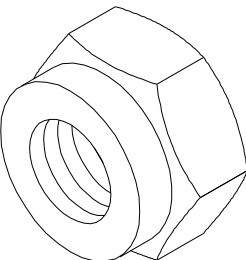
COMMUTATEUR

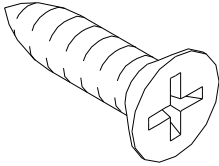
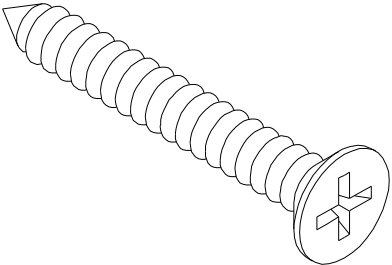
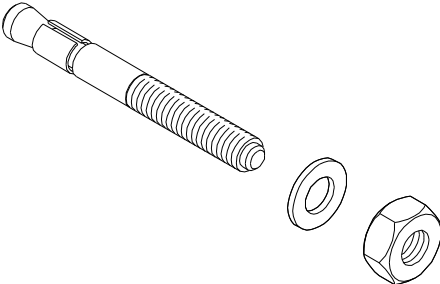
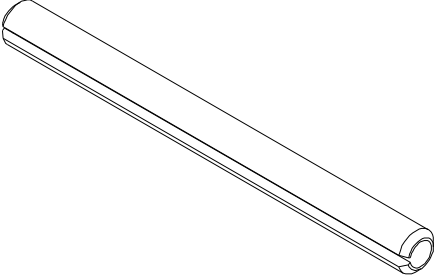
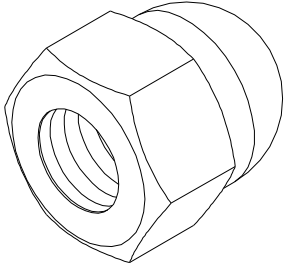
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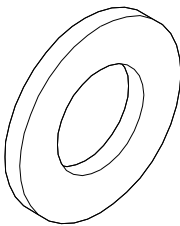
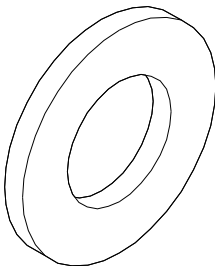
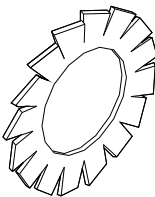
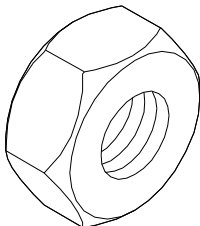
SCHALTER

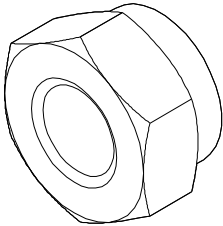
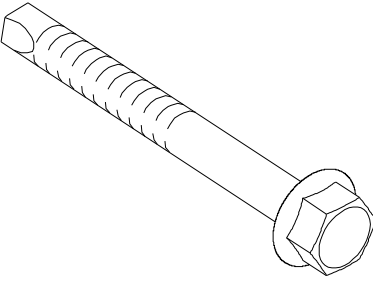
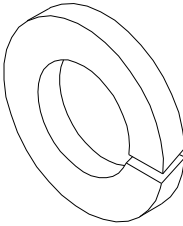
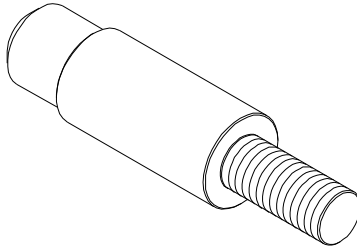
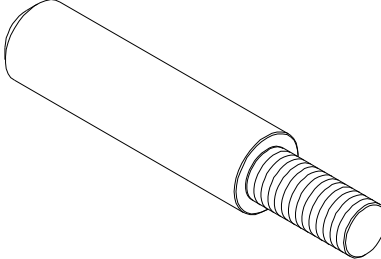
- CS 59Pa
- CS 59
- CS 59-HV
- CS 59-Re
- CS 59-So
- CS 68
- CS 68-HV
- CS 68-Re
- CS 68-So
- CW 50
- PR 200
- TR 200
- CS 68-FP
- CR 120
- CS 77
- CW 86
- CS 77-HV
- CS 59Pa-AP
- CS 59-AP
- CS 68-AP
- CS 77-AP
- BS 100

	050.5039.-- SCHROEF MET BORGINGSVERF DIN 912 M6x18 VIS AVEC COLLE DE BLOCAGE DIN 912 M6x18 SCREW WITH LOCKPAINT DIN 912 M6x18 SCHRAUBE MIT SICHER.FARBE DIN 912 M6x18	BS 100		
	050.5080.-- SCHROEF MET BORGINGSVERF DIN 965 INOX M5x40 VIS AVEC COLLE DE BLOCAGE DIN 965 INOX M5x40 SCREW WITH LOCKPAINT DIN 965 INOX M5x40 SCHRAUBE MIT SICHER.FARBE DIN 965 INOX M5x40	BS 100		
	051.5283.-- SCHROEF MET BORGINGSVERF DIN 914 M6x16 VIS AVEC COLLE DE BLOCAGE DIN 914 M6x16 SCREW WITH LOCKPAINT DIN 914 M6x16 SCHRAUBE MIT SICHER.FARBE DIN 914 M6x16	BS 100		

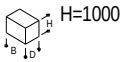
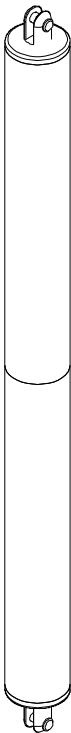
	050.5119.-- SCHROEF MET BORGINGSVERF VIS AVEC COLLE DE BLOCAGE SCREW WITH LOCKPAINT SCHRAUBE MIT SICHERUNGSFARBE	CW 86 BS 100 BS 30		
	050.5200.-- SCHROEF DIN 933 INOX M10x40 VIS DIN 933 INOX M10x40 SCREW DIN 933 INOX M10x40 SCHRAUBE DIN 933 INOX M10x40	CW 86 BS 100 BS 30		
	050.5203.-- SCHROEF DIN 933 INOX M10x60 VIS DIN 933 INOX M10x60 SCREW DIN 933 INOX M10x60 SCHRAUBE DIN 933 INOX M10x60	BS 100 BS 30 BS 20		
	050.5393.-- ZESKANTMOER ZELFBORGEND M12x12 ECROU HEXAGONALE AUTOBLOQUANTE M12x12 HEXAGON NUT SELF-LOCKING M12x12 SECHSKANTMUTTER SELBSTSICHEREND M12x12	BS 100		

	052.5311.-- ZT SCHROEF DIN 7982 INOX 4.2x16 VIS PARKER DIN 7982 INOX 4.2x16 ST-SCREW DIN 7982 INOX 4.2x16 BLECHSCHRAUBE DIN 7982 INOX 4.2x16	MOSQUITO CW 86 CS 77-BP BS 100 Eco system PR 100		
	052.5313.-- ZT SCHROEF DIN 7982 INOX 4.2x32 VIS PARKER DIN 7982 INOX 4.2x32 ST-SCREW DIN 7982 INOX 4.2x32 BLECHSCHRAUBE DIN 7982 INOX 4.2x32	CS 24-SL CS 24-SL/AP CP 155 CP 96 BS 100 CP 96-AP Eco system CS 38-SL Eco system-AP		
	054.5480.-- KEILANKER M10x95 GOIJON EXPANSIBLE M10x95 WEDGE ANCHOR M10x95 KEILANKER M10x95	CW 50 CW 50-HI CW 50-HL CW 50-RA CW 60 CW 50-SC CW 50-SG CW 60-SG BS 100 BS 30 CW 60-SC CW 60-HI		
	058.5943.-- SPANSTIFT DIN 1481 INOX Ø3x40 GOIJON DE TENSION DIN 1481 INOX Ø3x40 DOWEL DIN 1481 INOX Ø3x40 SPANSTIFT DIN 1481 INOX Ø3x40	CW 60-DRL		
	067.5202.-- BOLKOPMOER M12x22 ECROU DE GACHE M12x22 CUP NUT M12x22 HUTMUTTER M12x22	BS 100		

	067.5205.-- RONDEL M10 RONDELLE M10 WASHER M10 SCHEIBE M10	CW 50 CW 50-HI CW 50-HL CW 50-RA CW 60 CS 77 CW 50-SC CW 50-SG CW 60-SG BS 100 BS 30 BS 20 CW 60-SC CW 60-HI		
	067.5206.-- RONDEL M12x2.5 RONDELLE M12x2.5 WASHER M12x2.5 SCHEIBE M12x2.5	BS 100		
	079.5206.-- VEERRING M10 RONDELLE GROWER M10 SHAKEPROOF WASHER M10 FEDERRING M10	VISION 50 CW 50 CW 50-HI CW 50-HL CW 50-RA CW 60 CS 77 CW 50-SC CW 50-SG CW 60-SG BS 100 BS 30 CW 60-SC CW 60-HI		
	079.5398.-- ZESKANTMOER DIN 934 INOX M10 ECROU HEXAGONALE DIN 934 INOX M10 HEXAGON NUT DIN 934 INOX M10 SECHSKANTMUTTER DIN 934 INOX M10	VISION 50 CW 50 CW 50-HI CW 50-HL CW 50-RA CW 60 CS 77 CW 86 CW 50-SC CW 50-SG CW 60-SG BS 100 BS 30 CW 60-SC CW 60-HI		

 M=10 d=M10 S=17	050.5402.-- ZESKANTMOER ZELFBORGEND DIN 985 M10 ECROU HEXAGONALE AUTOBLOQUANTE DIN 985 M10 HEXAGON NUT SELF-LOCKING DIN 985 M10 SECHSKANTMUTTER SELBSTSICHEREND DIN 985 M10	BS 100		
	053.5199.-- SCHROEF ZELFBOREND Ø5.5x70 VIS AUTOPERCEUSE Ø5.5x70 SCREW SELF-DRILLING Ø5.5x70 BLECHSCHRAUBE Ø5.5x70	BS 100		
	054.5464.-- RONDEL M8 RONDELLE M8 WASHER M8 SCHEIBE M8	BS 100		
	075.6260.-- AS AXE AXLE ACHSE	BS 100		
	075.6261.-- AS AXE AXLE ACHSE	BS 100		

H=8 d=M8 S=13	050.5394.-- ZESKANTMOER ZELFBORGEND DIN 985 M8 ECROU HEXAGONALE AUTOBLOQUANTE DIN 985 M8 HEXAGON NUT SELF-LOCKING DIN 985 M8 SECHSKANTMUTTER SELBSTSICHEREND DIN 985 M8	CW 50 034.0190.XX BS 100		
Ø=10.5 B=4	054.5465.-- RONDEL M10 RONDELLE M10 WASHER M10 SCHEIBE M10	BS 100		
	075.6270.07 BUS DOUILLE BUSH BUCHSE	BS 100		
Ø=12.1 B=22	075.6271.07 AFSTANDSSTUK 22MM PIECE D'ECARTEMENT 22MM DISTANCE PIECE 22MM DISTANZSTUECK 22MM	BS 100		
Ø=10.3 B=15	075.6272.01 AFSTANDSSTUK 15MM PIECE D'ECARTEMENT 15MM DISTANCE PIECE 15MM DISTANZSTUECK 15MM	BS 100		



075.6499.--

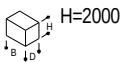
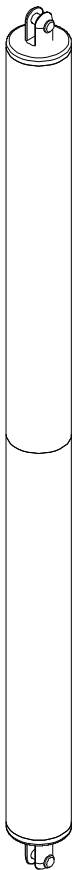
LINEAIRE MOTOR
PICOLO XL 100 230V ~50Hz

VERIN ELECTRIQUE
PICOLO XL 100 230V ~50Hz

LINEAR ACTUATOR
PICOLO XL 100 230V ~50Hz

LINEARANTRIEB
PICOLO XL 100 230V ~50Hz

BS 100



075.6500.--

LINEAIRE MOTOR
PICOLO XL 200 230V ~50Hz

VERIN ELECTRIQUE
PICOLO XL 200 230V ~50Hz

LINEAR ACTUATOR
PICOLO XL 200 230V ~50Hz

LINEARANTRIEB
PICOLO XL 200 230V ~50Hz

BS 100

BS 100

MOTOR
MOTEUR
MOTOR
ANTRIEB



