

HT

sistema de harmónio com corte térmico
folding system with thermal break
système repliable à rupture de pont thermique



CASA NA MADEIRA | PORTUGAL | BRAVAPLAN-PLANEAMENTO E ENGENHARIA CIVIL, LDA.
HOUSE IN MADEIRA | MAISON EN MADEIRA

CATÁLOGO TÉCNICO

TECHNICAL CATALOG | CATALOGUE TECHNIQUE



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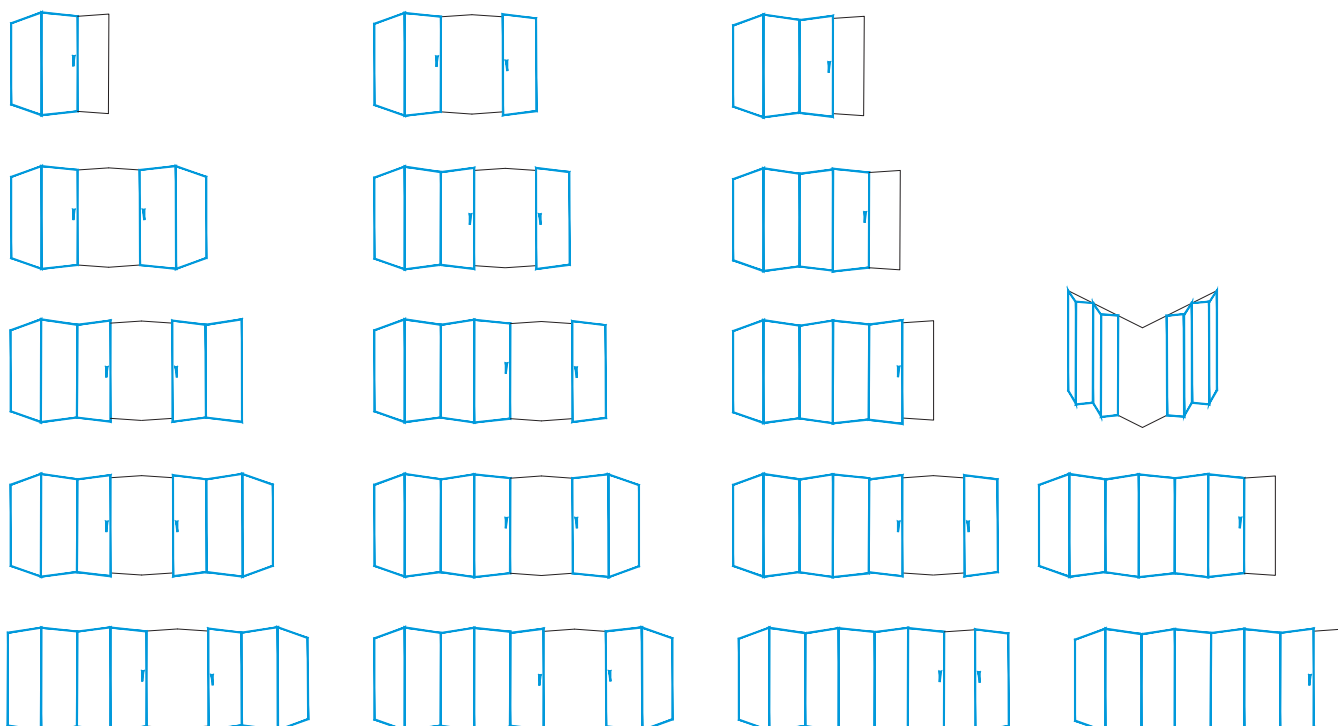


O sistema de harmónio HT apresenta grande capacidade térmica e bastante potencial para a aplicação em grandes vãos, nos quais o principal objetivo é obter o máximo de vista livre aquando da sua abertura. Desenhado para tipologias entre 2 e 7 folhas, este sistema adapta-se perfeitamente a todo o tipo de exigências arquitetónicas apresentando elevada robustez e facilidade de manuseamento.

The HT folding system has great thermal capacity and a lot of potential for application in large spans, in which the main objective is to obtain the maximum free view when it is opened. Designed for typologies between 2 and 7 sashes, this system adapts perfectly to all types of architectural requirements presenting high strength and ease of handling.

Le système repliable HT a une grande capacité thermique et un grand potentiel pour une application sur de grandes cadres, dans lequel l'objectif principal est d'obtenir le maximum de visibilité libre lorsqu'il est ouvert. Conçu pour des typologies entre 2 et 7 vantaux, ce système s'adapte parfaitement à tous types d'exigences architecturales présentant une grande résistance et une maniabilité.

APRESENTAÇÃO PRESENTATION PRÉSENTATION	reta straight droite
DIMENSÕES DIMENSIONS DIMENSIONS	
aros fixos fixed frames cadre dormant	77mm
aros móveis mobile frames cadre ouvrant	77mm
ENCHIMENTO FILLING REMPLISSAGE	De 14 a 50mm From 14 to 50mm De 14 à 50mm
CORTES CUTS COUPES	45° 90°
VEDAÇÃO INSULATION ÉTANCHÉITE	Juntas em EPDM EPDM joints Joints en EPDM
POLIAMIDA POLYAMIDE	24mm 32mm
UNIÕES UNIONS UNIONS	Esquadros de bloqueio 19mm 22mm Blocking brackets Équerres de verrouillages
ABERTURAS OPENINGS OUVERTURES	2 a to a 7 folhas sashes vantaux
ACABAMENTOS FINISHES FINITIONS	Lacados Anodizados Bicolores Powder coated Anodised Bicolour Laqué Anodisé Bicolore



Todas as medidas são consideradas em mm, salvo as devidamente identificadas

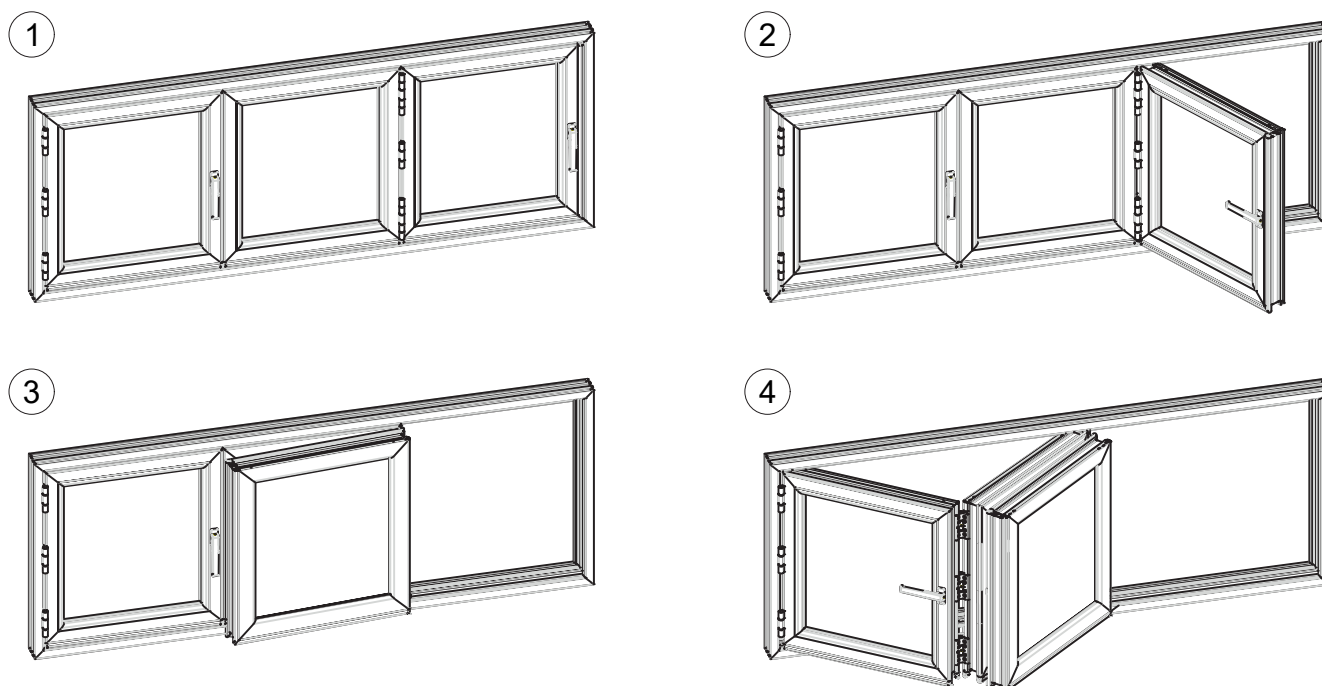
All measurements are considered in mm, except those duly identified | Toutes les mesures sont considérées en mm saufs celles qui sont dûment identifiées

CARACTERÍSTICAS MÍNIMAS/MÁXIMAS

minimum/maximum characteristics | caractéristiques minimum/maximum

	Tipologias ímpares * Odd typologies * Typologies impaires *	Tipologias pares Even typologies Typologies paires
	Folhas sem o acessório Ref. 212044 Sashes without accessory Ref. 212044 Vantaux sans accessoire Réf. 212044	Folhas com o acessório Ref. 212044 Sashes with accessory Ref. 212044 Vantaux avec accessoire Réf. 212044
Largura mínima Minimum length Largeur minimale	600 mm	651 mm
Largura máxima Maximum length Largeur maximale	1000 mm	1200 mm
Altura máxima Maximum height Hauteur maximale	3000 mm	3500 mm
Peso máximo Maximum weight Poids maximal	100 kg	120 kg

* É obrigatório cumprir a sequência de abertura indicada abaixo, para garantir o funcionamento adequado da janela:
It is mandatory to comply with the opening sequence indicated below, to ensure proper operation of the window:
Il est obligatoire de respecter la séquence d'ouverture indiquée ci-dessous, assurer le bon fonctionnement de la fenêtre:



DESEMPENHO DO SISTEMA

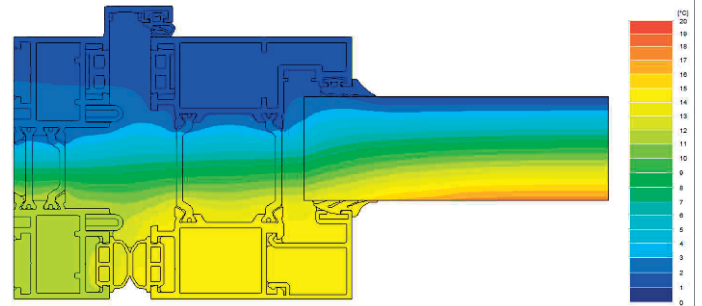
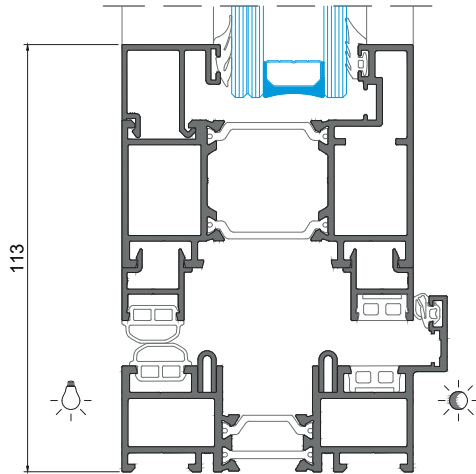
system performance | performance du système

Marcação CE CE MARKING Marquage CE NP EN 14351-1	Janela harmónio 4 folhas com 4,59 x 3,59 m (L x H) Vidro: 6 + 16 + 44.1 4 foldable sashes window with 4,59 x 3,59 m (W x H) Glass: 6 + 16 + 44.1 Fenêtre repliable 4 vantaux avec 4,59 x 3,59 m (L x H) Verre: 6 + 16 + 44.1
Permeabilidade ao AR AIR Permeability Permeabilité à l'AIR EN 12 207:2000	4
Estanquidade à ÁGUA WATER Tightness Étanchéité à l'EAU EN 12 208:2000	7A
Resistência ao VENTO WIND Resistance Résistance au VENT EN 12 210:2000	B1

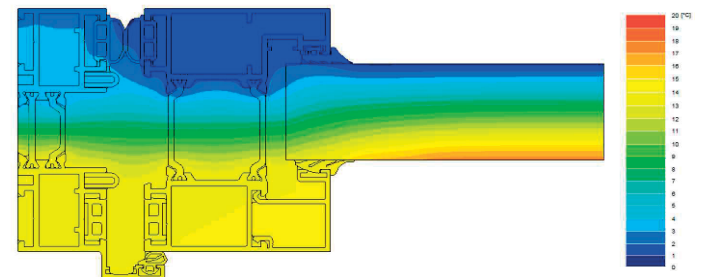
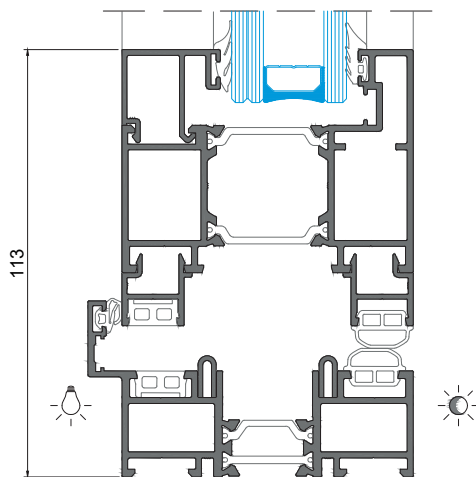
DESEMPENHO TÉRMICO DO SISTEMA

thermal system performance | performance thermique du système

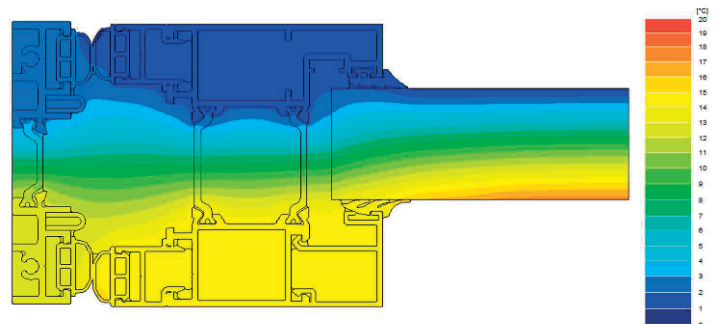
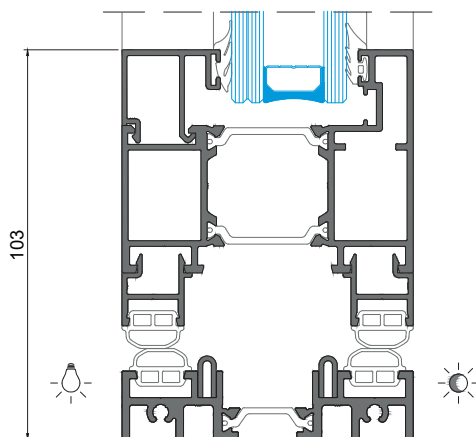
- Aro Inferior | Bottom Frame | Cadre Inférieur



Secção | Section | Section (3a) (7a) (11a) (15a) $U_f = 2,94 \text{ W/m}^2\text{K}$



Secção | Section | Section (3a) (7a) (11a) (15a) $U_f = 2,98 \text{ W/m}^2\text{K}$

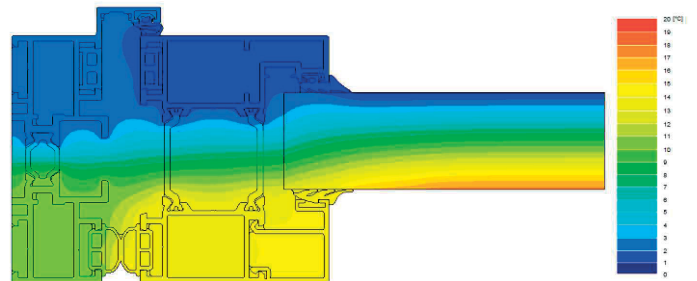
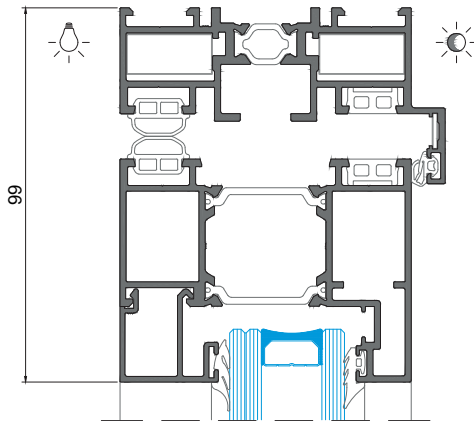


Secção | Section | Section (3b) (7b) (11b) (15b) $U_f = 2,70 \text{ W/m}^2\text{K}$

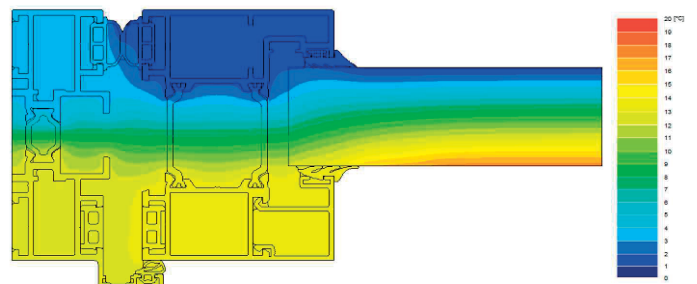
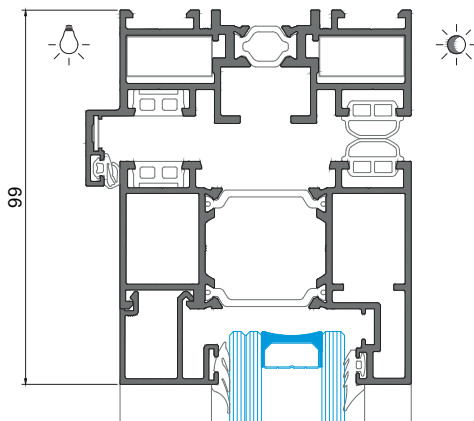
DESEMPENHO TÉRMICO DO SISTEMA

thermal system performance | performance thermique du système

- Aro Superior | Top Frame | Cadre Supérieure

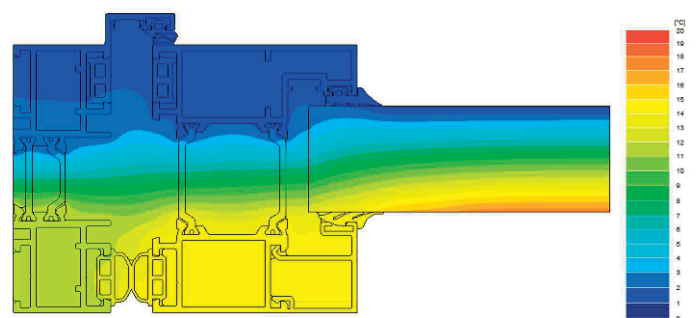
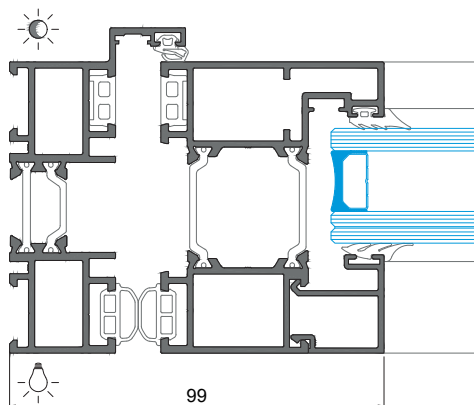


Secção | Section | Section (1) (5) (9) (13) (21) $U_f = 3,25 \text{ W/m}^2\text{K}$



Secção | Section | Section (1) (5) (9) (13) (21) $U_f = 3,32 \text{ W/m}^2\text{K}$

- Aro Lateral | Lateral Frame | Cadre Latéral

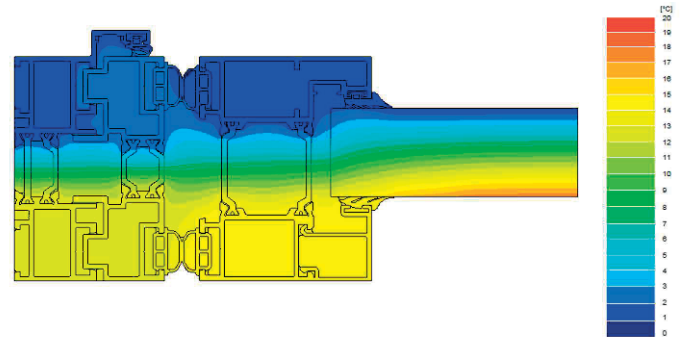
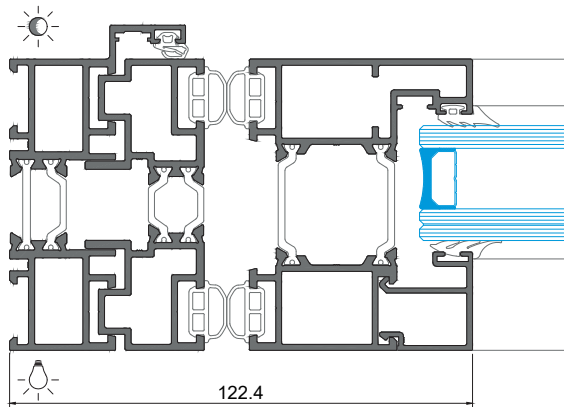


Secção | Section | Section (2a) $U_f = 2,97 \text{ W/m}^2\text{K}$

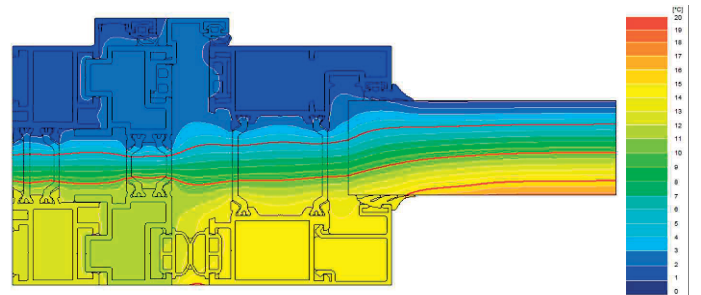
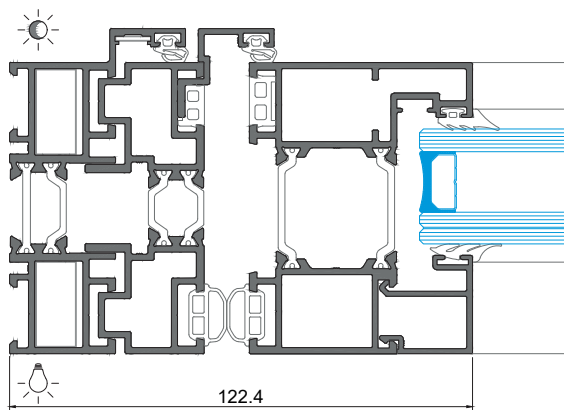
DESEMPENHO TÉRMICO DO SISTEMA

thermal system performance | performance thermique du système

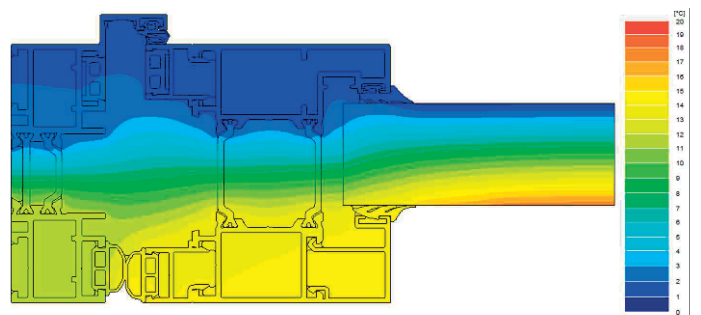
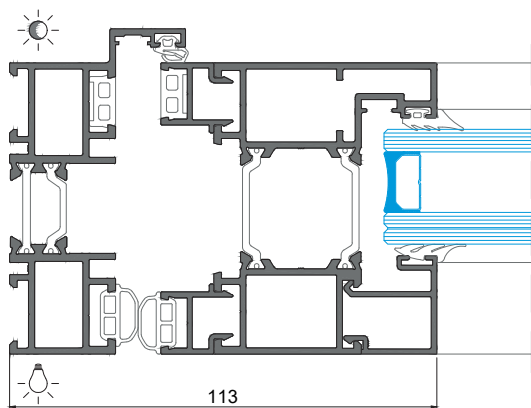
- Aro Lateral | Lateral Frame | Cadre Latéral



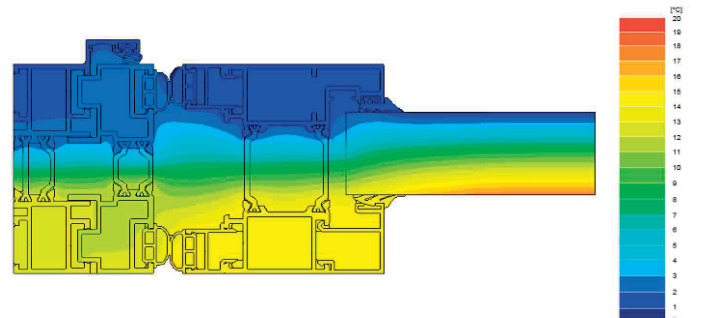
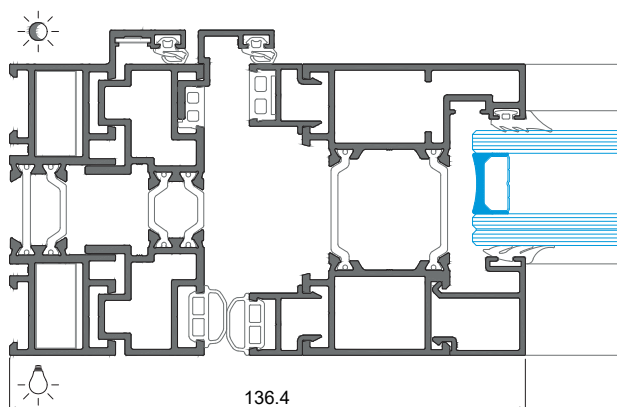
Secção | Section | Section (2b) $U_f = 2,79 \text{ W/m}^2\text{K}$



Secção | Section | Section (10b) $U_f = 2,90 \text{ W/m}^2\text{K}$



Secção | Section | Section (6a) $U_f = 2,99 \text{ W/m}^2\text{K}$

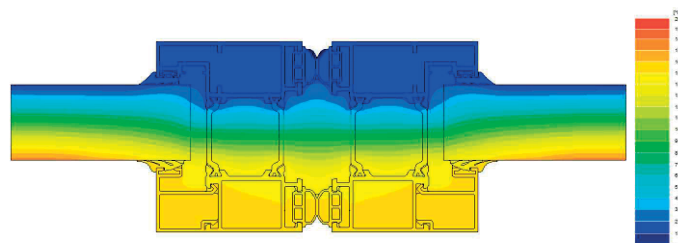
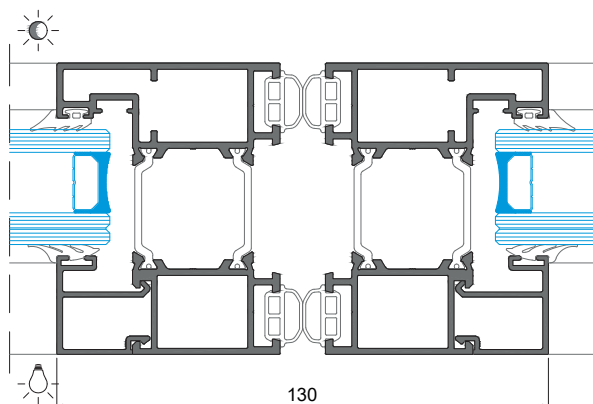


Secção | Section | Section (6b) $U_f = 2,81 \text{ W/m}^2\text{K}$

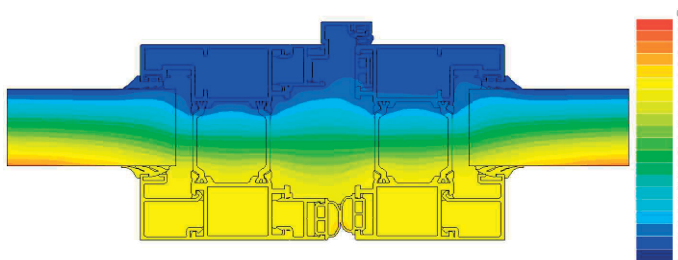
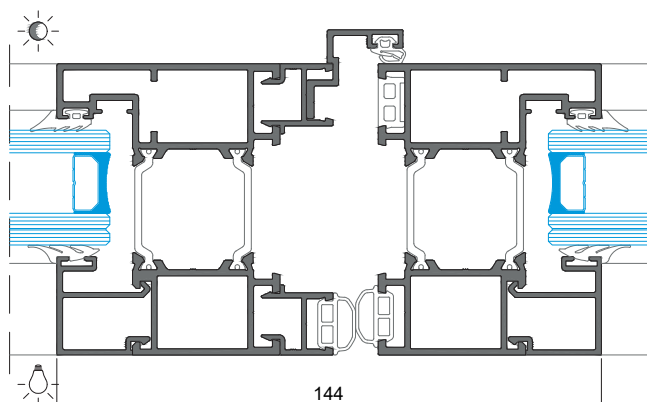
DESEMPENHO TÉRMICO DO SISTEMA

thermal system performance | performance thermique du système

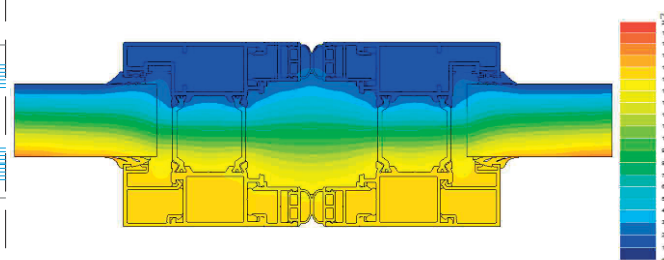
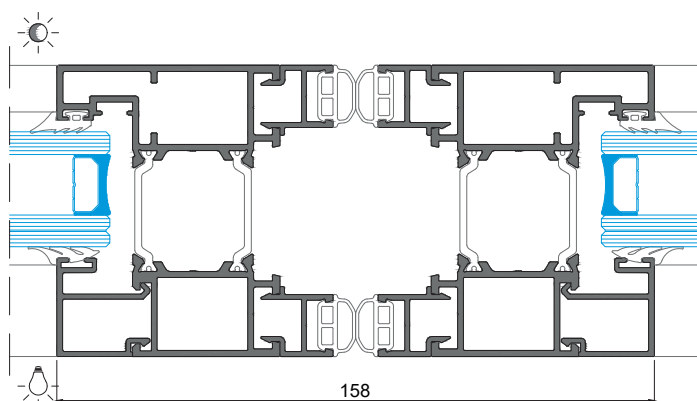
- Central | Central | Central



Secção | Section | Section 4 12 $U_f = 2,44 \text{ W/m}^2\text{K}$



Secção | Section | Section 8 $U_f = 2,69 \text{ W/m}^2\text{K}$



Secção | Section | Section 16 $U_f = 2,68 \text{ W/m}^2\text{K}$

DESEMPENHO ACÚSTICO DO SISTEMA

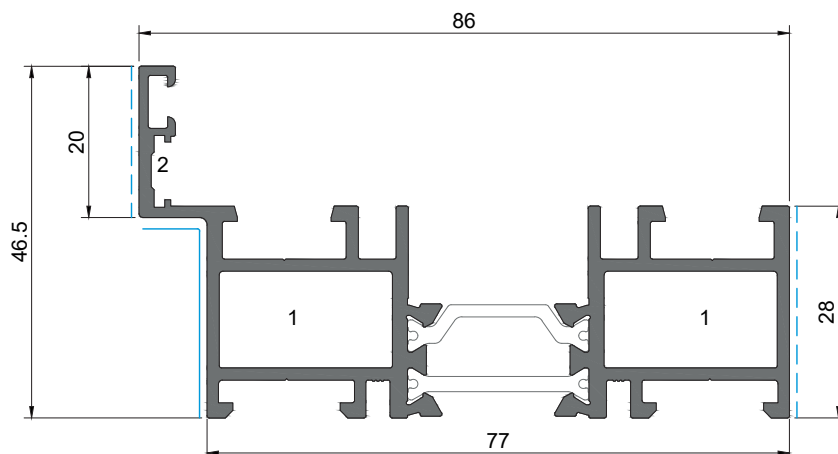
system acoustic performance | performance acoustique du système

Isolamento ACÚSTICO
ACOUSTIC Insulation | Isolation ACOUSTIQUE
NP EN 14351-1:2008 - Anexo B

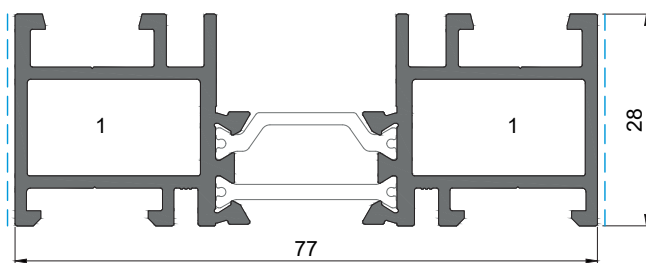
$R_w = 40 \text{ dB}$
 $R_w \text{ (IGU)} = 38 \text{ dB}$, área | area $\leq 2,70\text{m}^2$



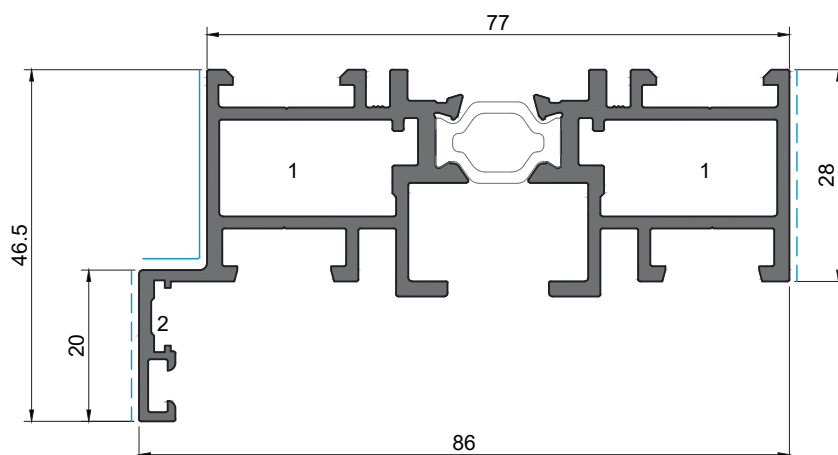
LISTAGEM DE PERFIS
PROFILES LIST | LISTE DES PROFILÉS



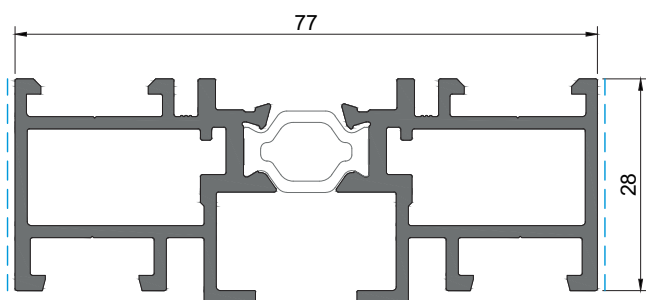
HT 01
Aro fixo
Fixed Frame
Dormant



HT 02
Aro fixo
Fixed frame
Cadre dormant



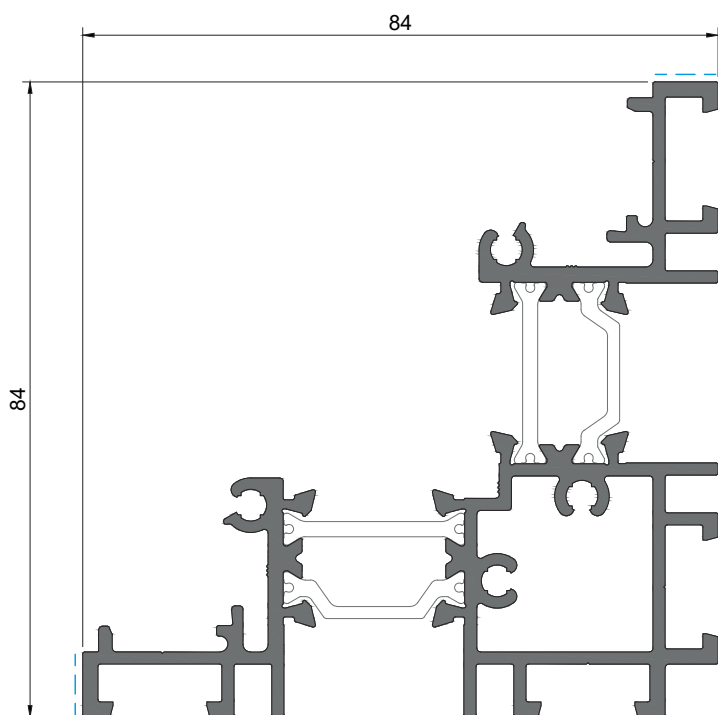
HT 21
Aro fixo superior
Top fixed frame
Dormant supérieur



HT 22
Aro fixo superior
Top fixed frame
Dormant supérieur

1 - ESQUADRO | BLOCKING BRACKET | EQUÉRRE HT N°1
3 - ESQUADRO | BLOCKING BRACKET | EQUÉRRE HT N°2

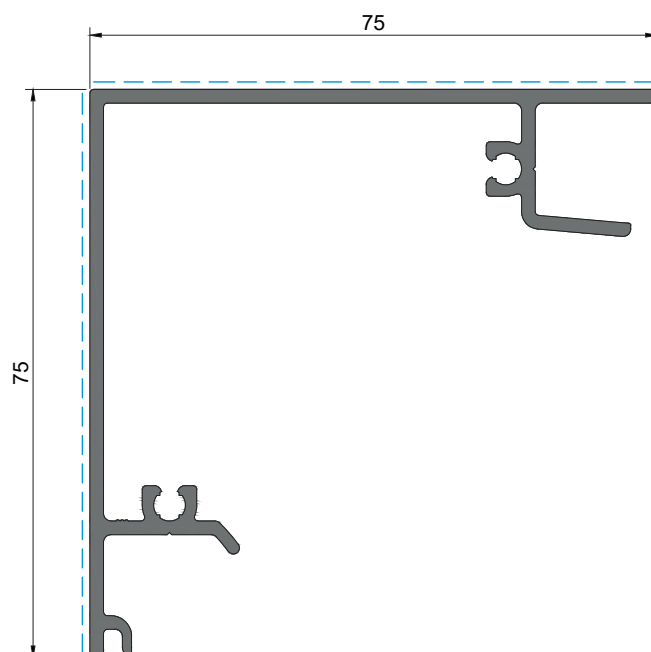
2 - CANTO DE ALINHAMENTO OS | ALIGNMENT ANGLE | COIN D'ALIGNEMENT
4 - ESQUADRO DE ALINHAMENTO | ALIGNMENT BLOCKING BRACKET | EQUÉRRE D'ALIGNEMENT



HT 55

Perfil de canto

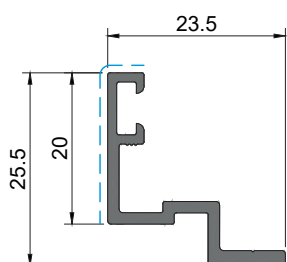
Corner profile | Profilé du coin



HT 56

Tampa de canto

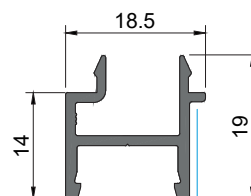
Corner cover | Couverture pour coin



HT 06

Perfil batente

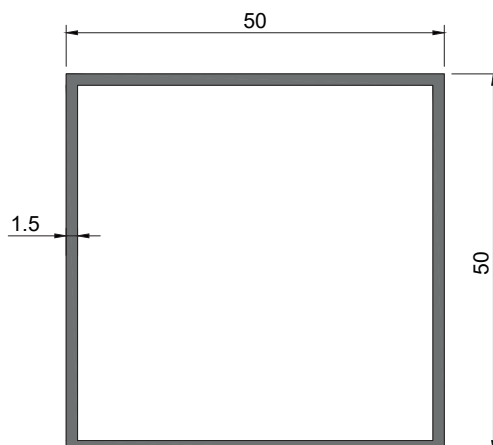
Jamb profile | Profilé battant



HT 25

Perfil complementar móvel

Mobile complementary profile | Profilé complémentaire ouvrant



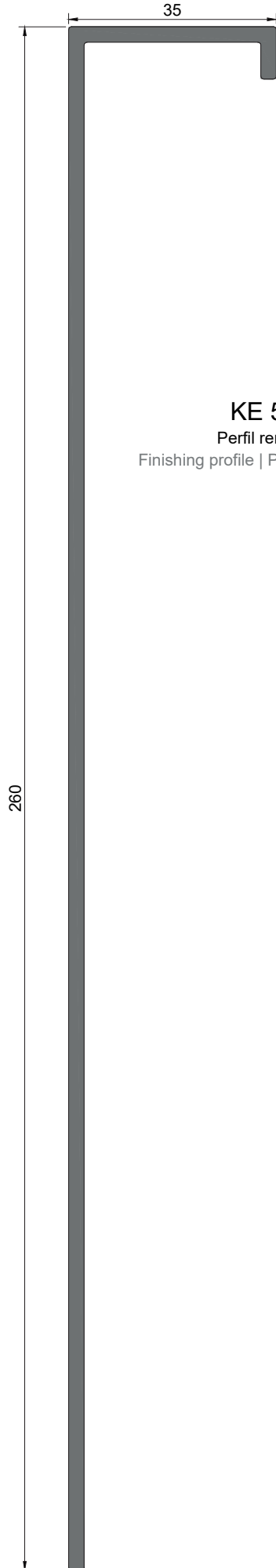
KQ 50

Tubo

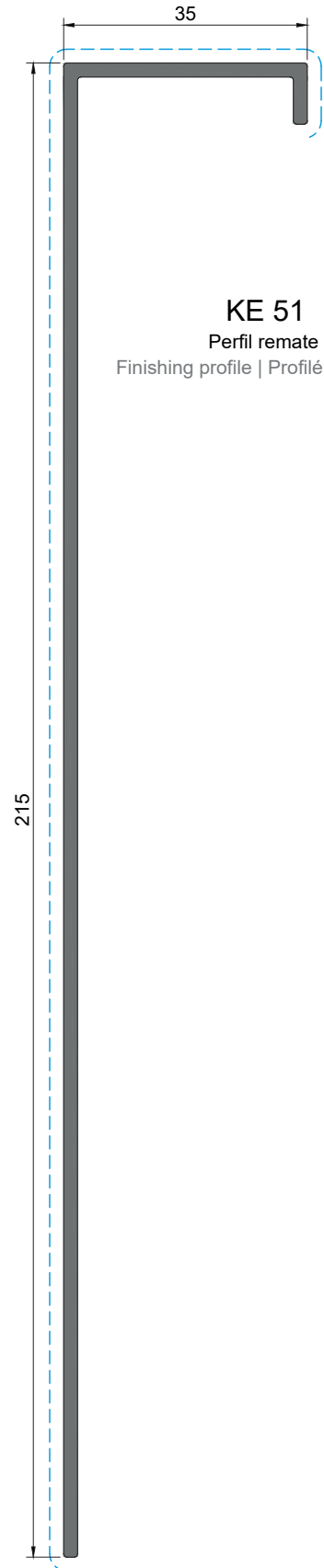
Tube | Tube

1 - ESQUADRO | BLOCKING BRACKET | EQUÉRRE HT N°1
3 - ESQUADRO | BLOCKING BRACKET | EQUÉRRE HT N°2

2 - CANTO DE ALINHAMENTO OS | ALIGNMENT ANGLE | COIN D'ALIGNEMENT
4 - ESQUADRO DE ALINHAMENTO | ALIGNMENT BLOCKING BRACKET | EQUÉRRE D'ALIGNEMENT

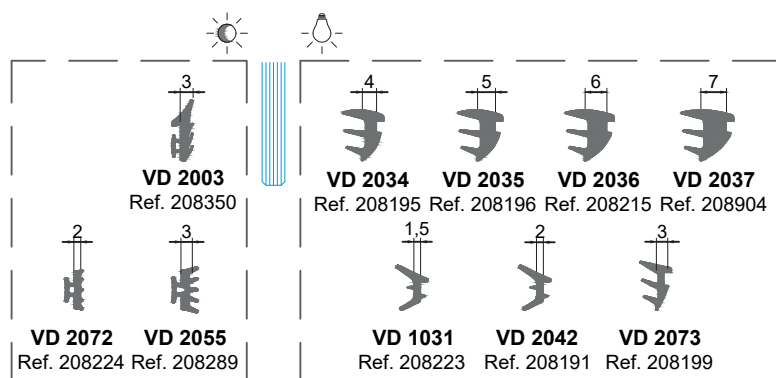


KE 52
Perfil remate
Finishing profile | Profilé de finition



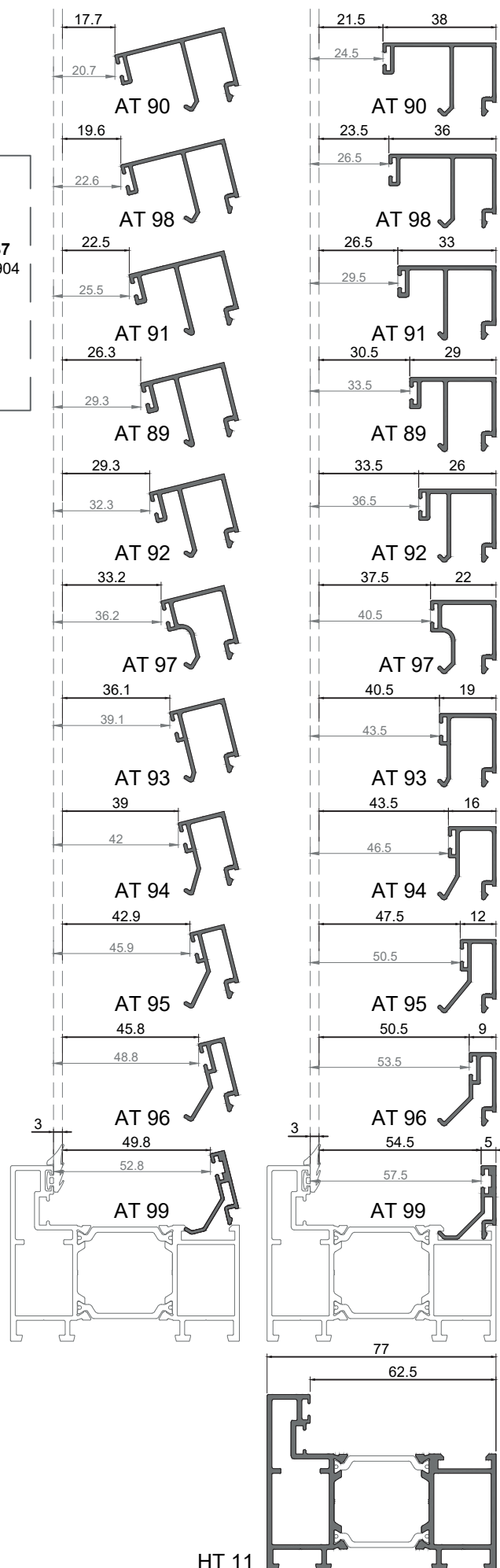
KE 51
Perfil remate
Finishing profile | Profilé de finition

TABELA ORIENTATIVA DE BITES
GLAZING BEADS SCHEDULE
TABLE DES PARCLOSES



Aconselha-se sempre a utilização do vedante VD 2003 pelo exterior.
It is always advisable to use VD 2003 gasket in the outer side.
Il est toujours conseillé d'utiliser le join VD 2003 de l'extérieur.

VEDANTE EXTERIOR OUTER GASKET JOINT EXTÉRIEUR	ESPESSURA DO VIDRO GLASS THICKNESS ÉPAISSEUR DU VERRE	VEDANTE INTERIOR INNER GASKET JOINT INTÉRIEUR	BITES GLAZING BEADS PARCLOSES
2003	14	2037	AT 90
2003	15	2036	AT 90
2003	16	2035	AT 90
2003	17	2034	AT 90
2003	18	2035	AT 98
2003	19	2034	AT 98
2003	20	2036	AT 91
2003	21	2035	AT 91
2003	22	2034	AT 91
2003	23	2037	AT 89
2003	24	2036	AT 89
2003	25	2035	AT 89
2003	26	2034	AT 89
2003	27	2036	AT 99
2003	28	2035	AT 92
2003	29	2034	AT 92
2003	30	2037	AT 97
2003	31	2036	AT 97
2003	32	2035	AT 97
2003	33	2034	AT 97
2003	34	2036	AT 93
2003	35	2035	AT 93
2003	36	2034	AT 93
2003	37	2036	AT 94
2003	38	2034	AT 94
2003	39	2034	AT 94
2003	40	2037	AT 95
2003	41	2036	AT 95
2003	42	2035	AT 95
2003	43	2034	AT 95
2003	44	2036	AT 96
2003	45	2035	AT 96
2003	46	2034	AT 96
2003	47	2037	AT 99
2003	48	2036	AT 99
2003	49	2035	AT 99
2003	50	2034	AT 99





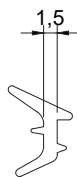
LISTAGEM DE ACESSÓRIOS
ACCESSORIES LIST | LIST D'ACCESSOIRES

VEDANTES
SEALS | JOINTS



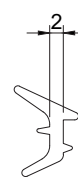
Rolo: 200m
Material: EPDM | Acabamento: Preto

208350 JUNTA DE VEDAÇÃO EXTERIOR 2003



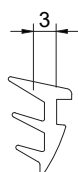
Rolo: 100m
Material: EPDM | Acabamento: Preto

208223 JUNTA DE CUNHA 1031



Rolo: 200m
Material: EPDM | Acabamento: Preto

208191 JUNTA DE CUNHA 2042



Rolo: 200m
Material: EPDM | Acabamento: Preto

208199 JUNTA DE CUNHA 2073



Rolo: 200m
Material: EPDM | Acabamento: Preto

208195 JUNTA DE CUNHA 2034



Rolo: 200m
Material: EPDM | Acabamento: Preto

208196 JUNTA DE CUNHA 2035



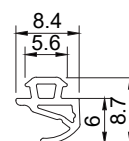
Rolo: 200m
Material: EPDM | Acabamento: Preto

208215 JUNTA DE CUNHA 2036



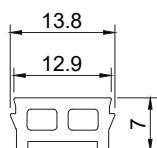
Rolo: 200m
Material: EPDM | Acabamento: Preto

208904 JUNTA DE CUNHA 2037



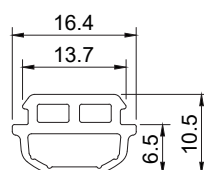
Aplicar nos perfis HT 01 e HT 06
Rolo: 25m
Material: EPDM | Acabamento: Preto

208094 JUNTA VD 2128



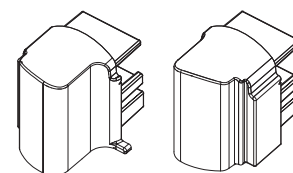
Aplicar nos perfis HT 11 e HT 25
Rolo: 50m
Material: EPDM | Acabamento: Preto

208092 JUNTA VD 2126



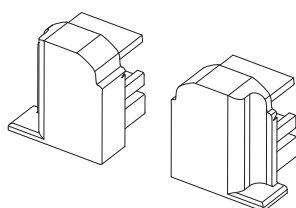
Aplicar nos perfis HT 11 e HT 25
Rolo: 50m
Material: EPDM | Acabamento: Preto

208093 JUNTA VD 2127



Aplicar no perfil HT 25
Material: EPDM | Acabamento: Preto

212027 CONJ. TOPOS P/ VD 2127

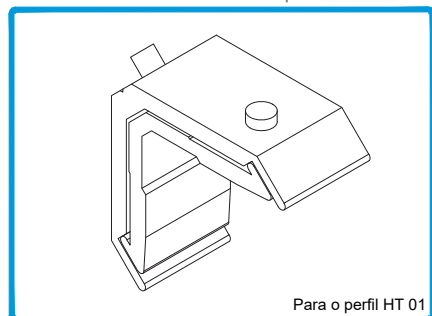


Aplicar no perfil HT 25
Material: EPDM | Acabamento: Preto

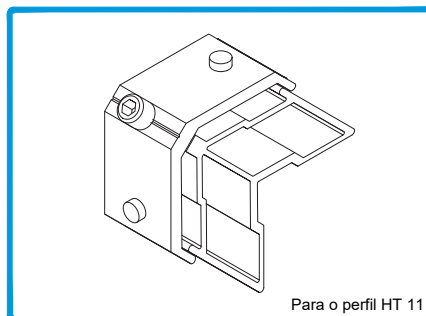
212045 CONJ. TOPOS P/ VD 2126

ACESSÓRIOS PARA OS AROS

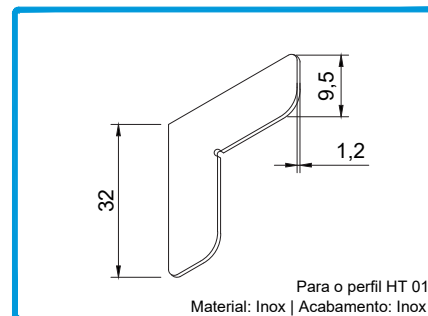
FRAME ACCESSORIES | ACCESSOIRES POUR LES CADRES



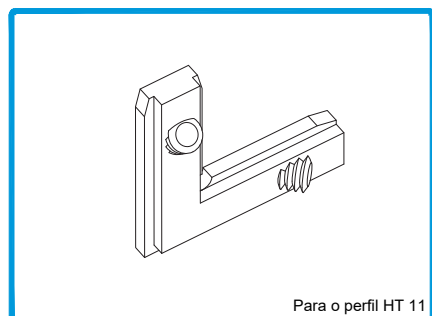
204016 ESQUADRO HT Nº1



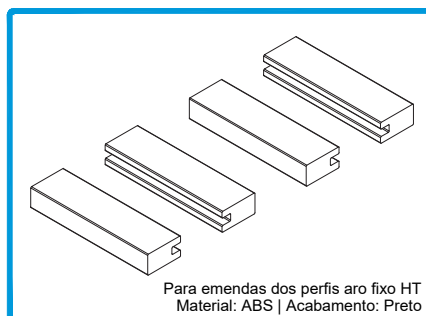
204017 ESQUADRO HT Nº2



213017 CANTO ALINHAMENTO OS



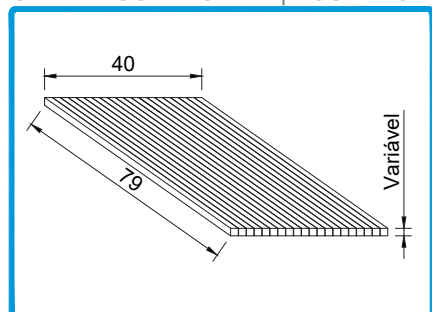
204131 ESQUADRO DE ALINH. C/ APERTO



212963 CONJ. UNIÃO RETA HT

ACESSÓRIOS PARA VIDRO

GLASS ACCESSORIES | ACCESSOIRES POUR VERRE



218113 CALÇO PARA VIDRO 79x40x2
218109 CALÇO PARA VIDRO 79x40x3
218111 CALÇO PARA VIDRO 79x40x4
218112 CALÇO PARA VIDRO 79x40x5

GOTEIRAS

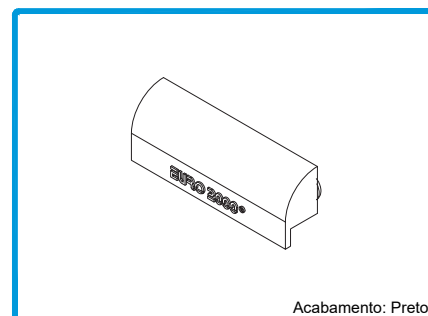
DRIPS | GOUTTIÈRES



210268 GOTEIRA C/ VÁLV. SVE



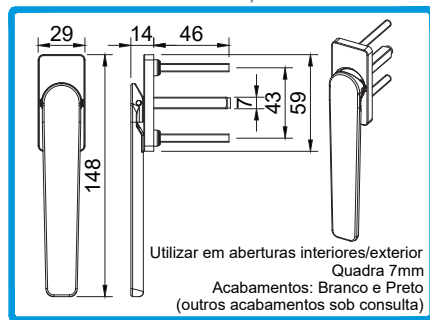
210265 GOTEIRA C/ VÁLV. BOLA



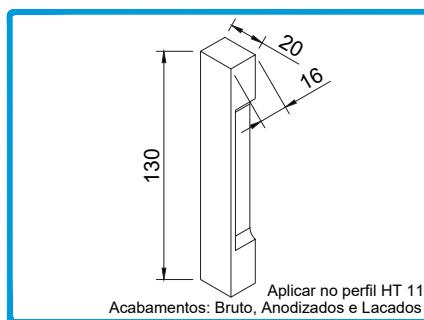
210280 GOTEIRA SOS C/VÁLVULA

SISTEMAS DE FECHO

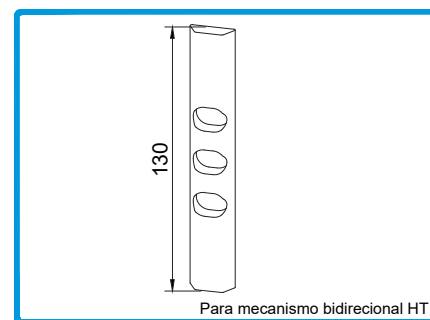
LOCKING SYSTEMS | SYSTÈMES DE FERMETURE



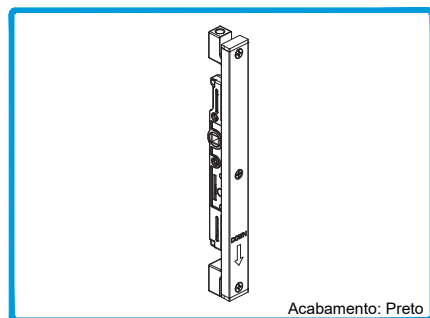
291012 MANÍPULO ARTIC. 3106.30 HT



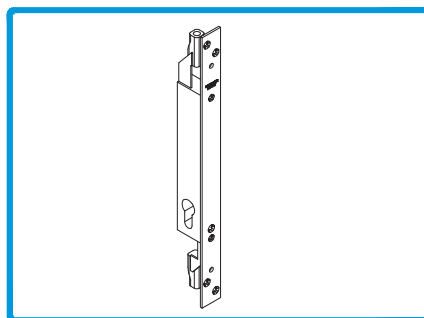
200056 PUXADOR FIXO SLIM



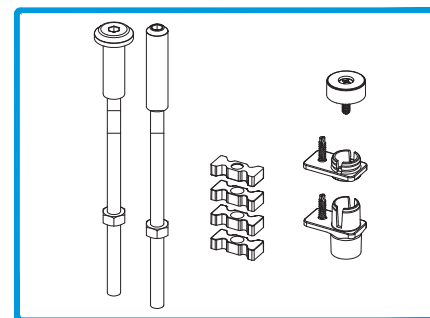
218145 CALÇO P/ MECANISMO BIDIR. HT



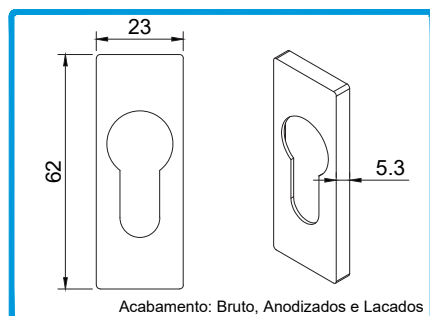
228002 MECANISMO BIDIR. HT LAC 905



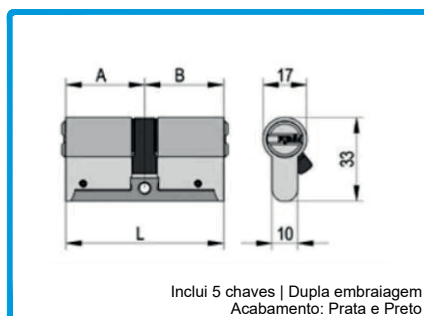
228003 MECANISMO BIDIR. C/ CHAVE HT



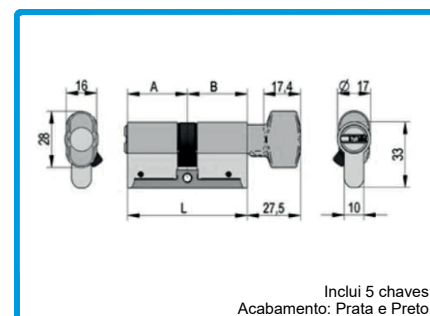
212081 CONJ. VARÕES 2M+TERM. P/ MEC. HT



220196 ESPELHO ALUMÍNIO 23MM P/ SEGREDO



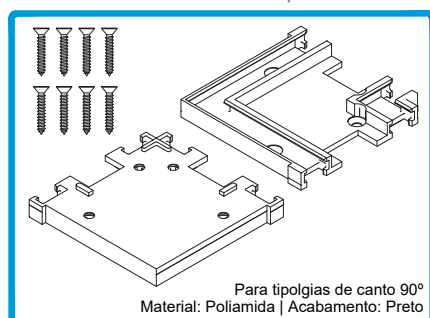
207407 CILINDRO ALTA SEGURANÇA 45/45



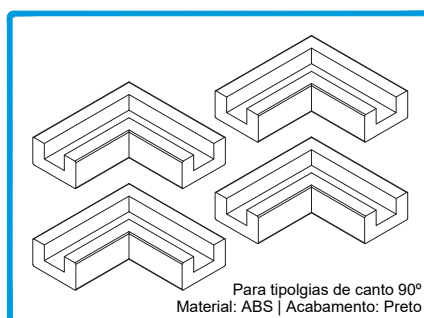
207409 CILINDRO ALTA SEGURANÇA 45B/45

TIPOLOGIAS DE CANTO

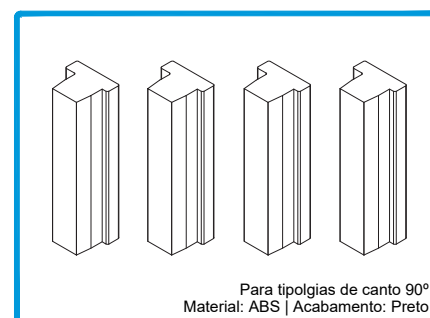
CORNER TYPOLOGIES | TYPOLOGIE DE COIN



212165 CONJ. TOPOS CANTO 90° HT

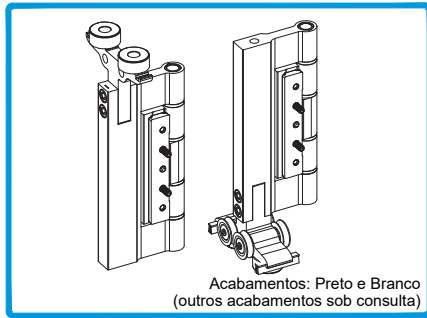


212167 CONJ. UNIÃO CANTO 90° HT

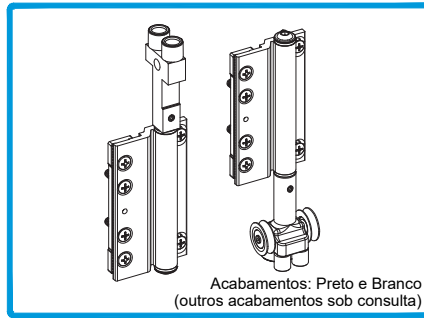


212169 CONJ. UNIÃO VERTICAL HT

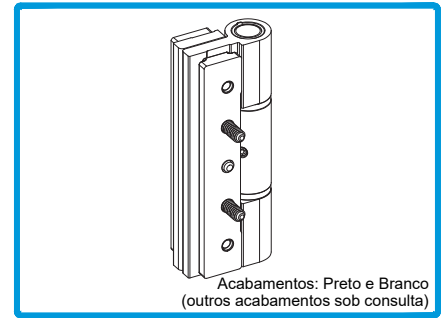
ACESSÓRIOS HARMÔNIO
FOLDING ACCESSORIES | ACCESSOIRES POUR REPLIABLES



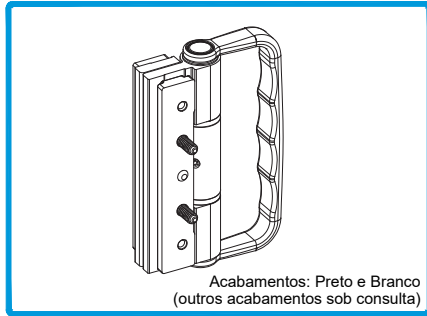
212043 CONJ. DOBR+ROLAMENTO
INF/SUP HT 8810.1
Acabamentos: Preto e Branco
(outros acabamentos sob consulta)



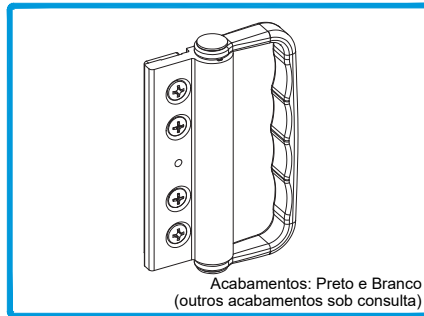
212044 CONJ. DOBR+GUIA
INF/SUP HT 8811.1
Acabamentos: Preto e Branco
(outros acabamentos sob consulta)



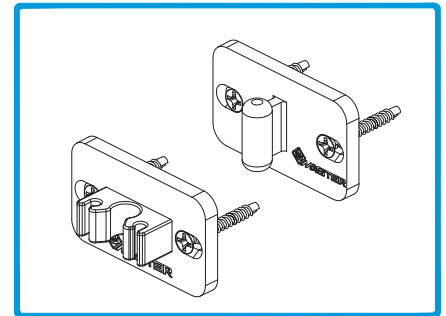
202016 DOBRADIÇA 3 ABAS HT 8815.12
Acabamentos: Preto e Branco
(outros acabamentos sob consulta)



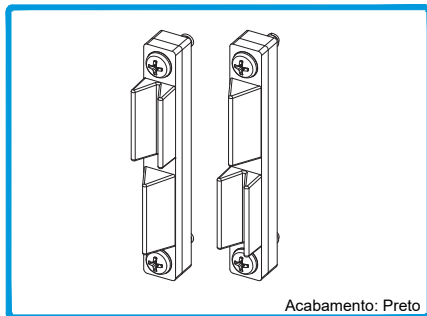
202018 DOBR. 3 ABAS C/ PUX. HT 8816.14
Acabamentos: Preto e Branco
(outros acabamentos sob consulta)



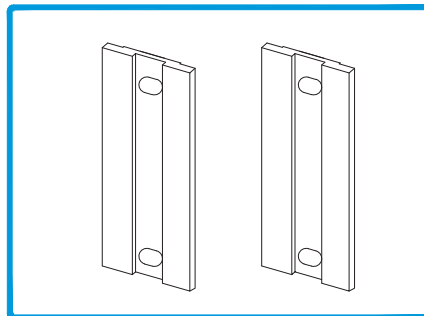
202017 DOBRADIÇA C/ PUX. HT 8816.12
Acabamentos: Preto e Branco
(outros acabamentos sob consulta)



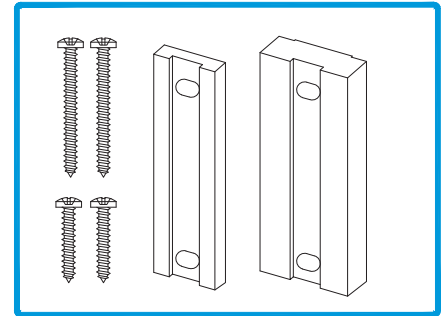
212033 CONJ. BLOQUEIO HT



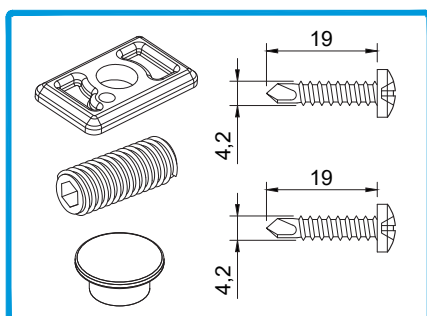
212031 CONJ. PONTO FECHO SUPLEM.
HT 4227
Acabamento: Preto



212144 CONJ. CALÇOS Nº1 P/ HT 4227



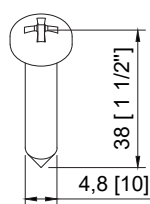
212145 CONJ. CALÇOS Nº2 P/ HT 4227



212964 CONJ. AJUSTE HT 82

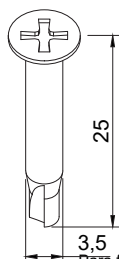
DIVERSOS

DIVERS | DIVERS



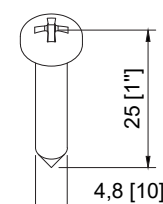
Para fixar os perfis HT 01 à soleira HT 49
Material: Inox | Acabamento: Inox

290262 PARAF. PAR 003 PK INOX PH 1 1/2x10 CQ



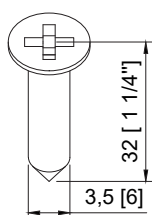
Material: Inox | Acabamento: Inox

290024 PARAF. DIN7504-P 3,5X25 INOX A2



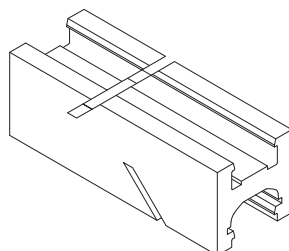
Para fixar os perfis HT 55 e HT 11
Material: Inox | Acabamento: Inox

290171 PARAFUSO CQ 1x10 INOX



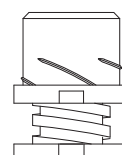
Para o perfil LT 90
Material: Inox | Acabamento: Inox

290080 PARAF. DIN7982 PH 3,5x32 INOX A2



Para os vedantes VD 2126 e VD 2127, do sistema HT
Material: Poliamida | Acabamento: Preto

211606 GABARITO CORTE VD 2126/2127 HT



224205 NIVELADOR PEQUENO 600.01/8



Junta de vedação elástica, resistente aos UV. Impede a corrosão de penetrar pelas zonas cortadas

208019 SELA JUNTAS 150gr. (Cinza)

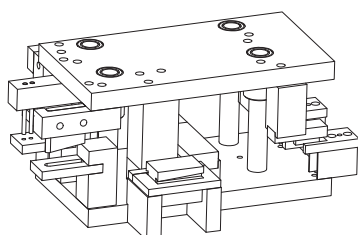


Limpeza de alumínio lacado ou anodizado. Para preparação de superfícies a serem unidas e limpeza final

208704 PRODUTO LIMPEZA DE ALUMINIO (1L) Transparente

FERRAMENTAS

TOOLS | OUTILS



408026 CORTANTE HT Nº1

TIPOLOGIAS DE ABERTURA INTERIOR (SEM CANTOS) INWARD OPENING TYPOLOGIES (WITHOUT CORNERS) TYPOLOGIES D'OUVERTURE VERS L'INTÉRIEUR (SANS COINS)																			
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	220	321	330	422	431	440	522	541	550	633	642	651	660	743	752	761	770	
		4a	4a/ba	4a/bb	4a/ba	4a/bb	4a	4a/ba	4a/bb	4a/ba	4a/bb	4a	4a/ba	4a/bb	4a	4a/ba	4a/bb	4a/ba	4a/bb
291012	MANIPULO ARTÍC. 3106.30 HT FOURABLE SYSTEM HANDLE POIGNÉE POUR SYSTÈME REPLIABLE	1	-	2	1	2	1	3	2	3	2	4	2	3	2	4	3	4	3
		1	-	2	1	2	1	3	2	3	2	4	2	3	2	4	3	4	3
228002	MECANISMO BIDIR. HT HT BI-DIRECTIONAL MECHANISM HT BI-DIRECTIONNEL	1	-	2	1	2	1	3	2	3	2	4	2	3	2	4	3	4	3
218145	CALÇO P/ MECANISMO BIDIR. HT HT BIDIR. MECHANISM SHIM CALE POUR MECANISME BI-DIRECTIONNEL HT	1	-	2	1	2	1	3	2	3	2	4	2	3	2	4	3	4	3
228003	MECANISMO BIDIR. C/ CHAVE HT HT BI-DIRECTIONAL MECHANISM WITH KEY HT BI-DIRECTIONNEL AVEC CLÉ HT	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
200056	PUXADOR FIXO SLIM SLIM FIXED HANDLE POIGNÉE FIXE SLIM	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
207409	CILINDRO ALTA SEG. C/ BOTÃO 45B/45 CYLINDER CYLINDRE	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
220196	ESPELHO ALUMÍNIO 23MM P/ SEGREGDO CONVETURE POUR CYLINDRE	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
212081	CONJ. VARÕES 2M+TERM. P/ MEC. HT RODS+TERMINALS FOR HT MECHANISM KIT TIGES+BORNES POUR MECANISME HT	1	2	2	2	3	2	3	3	3	4	3	4	3	4	4	4	4	4
212964	CONJ. P/ AJUSTE HT 82 HT 82 ADJUST KIT KIT POUR LE REGLAGE HT 82	6 ^(a) 8 ^(b) 12 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	6 ^(a) 8 ^(b) 10 ^(c)	
202017	DOBRADIÇA C/ PUX. HT 8816.12 PULLING HINGE PAUMELLE AVEC POIGNÉE	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4
202016	DOBR. 3 ABAS HT 8815.12 * 3 FLAPS HINGE PAUMELLE DE 3 LAMES	6 ^(a) 10 ^(b) 14 ^(c)	9 ^(a) 15 ^(b) 21 ^(c)	7 ^(a) 13 ^(b) 16 ^(c)	12 ^(a) 20 ^(b) 28 ^(c)	10 ^(a) 18 ^(b) 26 ^(c)	10 ^(a) 18 ^(b) 26 ^(c)	13 ^(a) 23 ^(b) 33 ^(c)	13 ^(a) 23 ^(b) 33 ^(c)	11 ^(a) 21 ^(b) 31 ^(c)	14 ^(a) 28 ^(b) 38 ^(c)	16 ^(a) 32 ^(b) 40 ^(c)	14 ^(a) 28 ^(b) 38 ^(c)	14 ^(a) 28 ^(b) 38 ^(c)	17 ^(a) 31 ^(b) 45 ^(c)	17 ^(a) 31 ^(b) 45 ^(c)	17 ^(a) 31 ^(b) 45 ^(c)	15 ^(a) 29 ^(b) 43 ^(c)	
202018	DOBR. 3 ABAS C/ PUX. HT 8816.14 3 FLAPS PULLING HINGE PAUMELLE DE 3 LAMES AVEC POIGNÉE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212043	CONJ. DOBR.+ROLAM. INF/SUP HT 8810.1 BOTTOMTOP ROLLERHINGE KIT KIT PAUMELLE+ROULEMENT INF/SUP	-	-	1	-	1	1	1	1	2	2	1	2	2	2	2	2	2	3
212044	CONJ. DOBR.+GUIA INF/SUP HT 8811.1 BOTTOMTOP HINGE-GUIDE KIT KIT DE PAUMELLE+GUIDE INF/SUP	1	1	-	2	-	1	1	1	-	-	2	-	1	1	1	1	-	-
212031	CONJ. PONTO FECHO SUPLEM. 4227 HT ADDITIONAL CLOSING POINT KIT KIT DE POINT DE FERMETURE SUPPLÉM.	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6	6
212144	CONJ. CALÇOS Nº1 P/ HT 4227 NO. 1 SHIM KIT FOR HT 4227 KIT DE CALES Nº1 POUR HT 4227	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6	6
212027	CONJ. TOPOS P/ VD 2127 2127 GASKET END-CAPS KIT KIT D'EMBOUTS POUR JOINT 2127	4	6	5	9	7	8	10	10	10	11	13	11	12	14	14	14	13	13
212045	CONJ. TOPOS P/ VD 2126 2126 GASKET END-CAPS KIT KIT D'EMBOUTS POUR JOINT 2126	2	2	1	1	1	1	2	2	2	1	1	1	2	3	2	3	1	1
204016	ESQUADRO HT Nº1 BLOCKING BRACKET ÉQUERRE	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
204017	ESQUADRO HT Nº2 BLOCKING BRACKET ÉQUERRE	16	24	24	32	32	32	40	40	40	48	48	48	48	56	56	56	56	56
213017	CANTO ALINHAMENTO OS ANGLE ANGLE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
204131	ESQUADRO DE ALINHAM. C/ APERTO ANGLE ANGLE	8	12	12	16	16	16	20	20	20	24	24	24	24	28	28	28	28	28
212033	CONJ. BLOQUEIO HT HT LOCKING KIT KIT DE VERROUILLAGE HT	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6	6
-	Consultar lista para outros acessórios Consultar la liste pour les autres accessoires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Adicionar 1 Dobradiça Central (com ou sem puxador) se peso da folha > 90Kg. | Add 1 Central Hinge (with or without handle) if sash weight > 90Kg. | Ajouter 1 Charnière Centrale (avec ou sans poignée) si poids de la vantail > 90Kg.
(e) 2200mm < H ≤ 3000mm (acréscimo de 2 dobradiças/folha | addition of 2 hinges/sash | ajout de 2 paumelles/vantail)
** Duplicar a quantidade se a altura da folha > 2200mm. | Double the quantity if sash height > 2200mm. | Doubler la quantité si la hauteur de la vantail > 2200mm.
*** Considerar metade da quantidade e adicionar parafusos no caso de se utilizar o perfil soleira HT 49. | Consider half quantity and add screws if using the HT 49 sill profile. | Considérer la moitié du nombre et ajouter des vis si utilisé le profilé seuil HT 49.

OPÇÃO DE FECHO 1
CLOSING OPTION 1 | OPTION DE FERMETURE 1

OPÇÃO DE FECHO 2
CLOSING OPTION 2 | OPTION DE FERMETURE 2

APENAS EM VAOS COM HT 82
ONLY IN FRAMES WITH HT 82 | UNIQUEMENT DANS LES CADRES AVEC HT 82

TIPOLOGIAS DE ABERTURA EXTERIOR (SEM CANTOS) OUTWARD OPENING TYPOLOGIES (WITHOUT CORNERS) TIPOLOGIES D'OUVERTURE VERS L'EXTÉRIEUR (SANS COINS)																				
CÓDIGO CODE CODE	220	321	330	422	431	440	522	541	550	633	642	651	660	743	752	761	770	DESIGNAÇÃO DESIGNATION NOMINATION		
291012	1	-	2	1	2	1	3	2	3	2	4	3	2	4	3	4	3	4	MANIPULO ARTÍC. 3106.30 HT FOLDABLE SYSTEM HANDLE POIGNÉE POUR SYSTÈME REPLIABLE	
228002	1	-	2	1	2	1	3	2	3	2	4	3	2	4	3	4	3	4	MECANISMO BIDIR. HT HT BI-DIRECTIONAL MECHANISM HT BI-DIRECTIONNEL	
218145	1	-	2	1	2	1	3	2	3	2	4	3	2	4	3	4	3	4	CALÇO P/ MECANISMO BIDIR. HT HT BIDIR. MECHANISM SHIM CALE POUR MECANISME BI-DIRECTIONNEL HT	
228003	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	MECANISMO BIDIR. C/ CHAVE HT HT BI-DIRECTIONAL MECHANISM WITH KEY HT BI-DIRECTIONNEL AVEC CLÉ HT	
200056	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	PUXADOR FIXO SLIM SLIM FIXED HANDLE POIGNÉE FIXE SLIM	
207409	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	CILINDRO ALTA SEG. C/ BOTÃO 45B45 CYLINDER CYLINDRE	
220196	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	ESPELHO ALUMÍNIO 23MM P/ SEGREGDO CYLINDER COVER COUVERTURE POUR CYLINDRE	
212081	1	2	2	2	3	2	3	3	3	4	3	4	3	4	4	4	4	4	CONJ. VARÕES 2M+TERM. P/ MEC. HT RODS+TERMINALS FOR HT MECHANISM KIT TIGES+BORNES POUR MECANISME HT	
212964	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	6 (a) 8 (b) 10 (c)	CONJ. P/ AJUSTE HT 82 HT 82 ADJUSTMENT KIT KIT POUR LE RÉGLAGE HT 82		
202017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DOBRADIÇA C/ PUX. HT 8816.12 PULLING HINGE DOUBLER AVEC POIGNÉE	
202016	5 (a) 9 (b) 13 (c)	8 (a) 14 (b) 20 (c)	6 (a) 12 (b) 18 (c) 15 (c)	10 (a) 18 (b) 26 (c)	11 (a) 21 (b) 31 (c)	8 (a) 16 (b) 24 (c)	11 (a) 21 (b) 31 (c)	11 (a) 21 (b) 31 (c)	9 (a) 19 (b) 29 (c)	12 (a) 24 (b) 36 (c)	13 (a) 25 (b) 37 (c)	12 (a) 24 (b) 36 (c)	11 (a) 23 (b) 35 (c)	14 (a) 28 (b) 42 (c)	14 (a) 28 (b) 42 (c)	14 (a) 28 (b) 42 (c)	14 (a) 28 (b) 42 (c)	DOBR. 3 ABAS HT 8815.12 * 3 FLAPS HINGE PAUMELLE DE 3 LAMES		
202018	1	1	1	2	1	2	2	2	2	2	3	2	3	3	3	3	3	3	DOBR. 3 ABAS C/ PUX. HT 8816.14 3 FLAPS PULLING HINGE PAUMELLE DE 3 LAMES AVEC POIGNÉE	
212043	-	-	1	-	1	1	1	1	2	2	1	2	2	2	2	2	2	3	CONJ. DOBR.+ROLAM. INF/SUP HT 8810.1 BOTTOM/TOPTOP-ROLLERHINGE KIT KIT PAUMELLE+ROULEMENT INF/SUP	
212044	1	1	-	2	-	1	1	1	-	-	2	-	1	1	1	1	1	-	CONJ. DOBR.+GUIA INF/SUP HT 8811.1 BOTTOM/TOPTOP-HINGE-GUIDE KIT KIT DE PAUMELLE+GUIDE INF/SUP	
212031	1	**	2	**	2	**	3	**	4	**	4	**	5	**	5	**	5	6	CONJ. PONTO FECHO SUPLEM. 4227 HT ADDITIONAL CLOSING POINT KIT KIT DE POINT DE FERMETURE SUPPLÉM.	
212144	1	**	2	**	2	**	3	**	4	**	4	**	5	**	5	**	5	6	CONJ. CALÇOS Nº1 P/ HT 4227 NO. 1 SHIM KIT FOR HT 4227 KIT DE CALES Nº1 POUR HT 4227	
212027	4	6	5	9	7	8	10	10	10	11	13	11	12	14	14	14	13	13	CONJ. TOPOS P/ VD 2127 2127 GASKET END-CAPS KIT KIT D'EMBOUTS POUR JOINT 2127	
212045	2	2	1	1	1	1	2	2	2	1	1	1	2	3	2	3	1	1	CONJ. TOPOS P/ VD 2126 2126 GASKET END-CAPS KIT KIT D'EMBOUTS POUR JOINT 2126	
204016	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	ESQUADRO HT Nº1 BLOCKING BRACKET ÉQUERRE	
204017	16	24	24	32	32	32	40	40	40	48	48	48	48	56	56	56	56	56	ESQUADRO HT Nº2 BLOCKING BRACKET ÉQUERRE	
213017	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	CANTO ALINHAMENTO OS ANGLE ANGLE	
204131	8	12	12	16	16	16	20	20	20	24	24	24	24	28	28	28	28	28	ESQUADRO DE ALINHAM. C/ APERTO ALIGNMENT BRACKET ANGLE	
212033	1	**	2	**	2	**	3	**	4	**	4	**	5	**	5	**	6	**	CONJ. BLOQUEIO HT HT BLOCKING KIT KIT DE VERROUILLAGE HT	
-	Consultar lista para outros acessórios Consult list for other accessories Consultar la liste pour les autres accessoires																			
Variável Variable Variable																				

* Adicionar 1 Dobradiça Central (com ou sem puxador) se peso da folha > 90Kg. | Add 1 Central Hinge (with or without handle) if sash weight > 90Kg. | Ajouter 1 Charnière Centrale (avec ou sans poignée) si poids de la vantail > 90Kg.
(b) 2200mm < H ≤ 3000mm (acréscimo de 2 dobradiças/folha | addition of 2 hinges/sash | ajout de 2 paumelles/vantail)
** Duplicar a quantidade se a altura da folha > 2200mm. | Double the quantity if sash height > 2200mm. | Doubler la quantité si la hauteur de la vantail > 2200mm.
*** Considerar metade da quantidade e adicionar parafusos no caso de se utilizar o perfil soleira HT 49. | Consider half quantity and add screws if using the HT 49 sill profile. | Considérer la moitié du nombre et ajouter des vis si utilisé le profilé seuil HT 49.
OPÇÃO DE FECHO 1
CLOSING OPTION 1 | OPTION DE FERMETURE 1
OPÇÃO DE FECHO 2
CLOSING OPTION 2 | OPTION DE FERMETURE 2
APENAS EM VAOS COM HT 82
ONLY IN FRAMES WITH HT 82 | UNIQUEMENT DANS LES CADRES AVEC HT 82

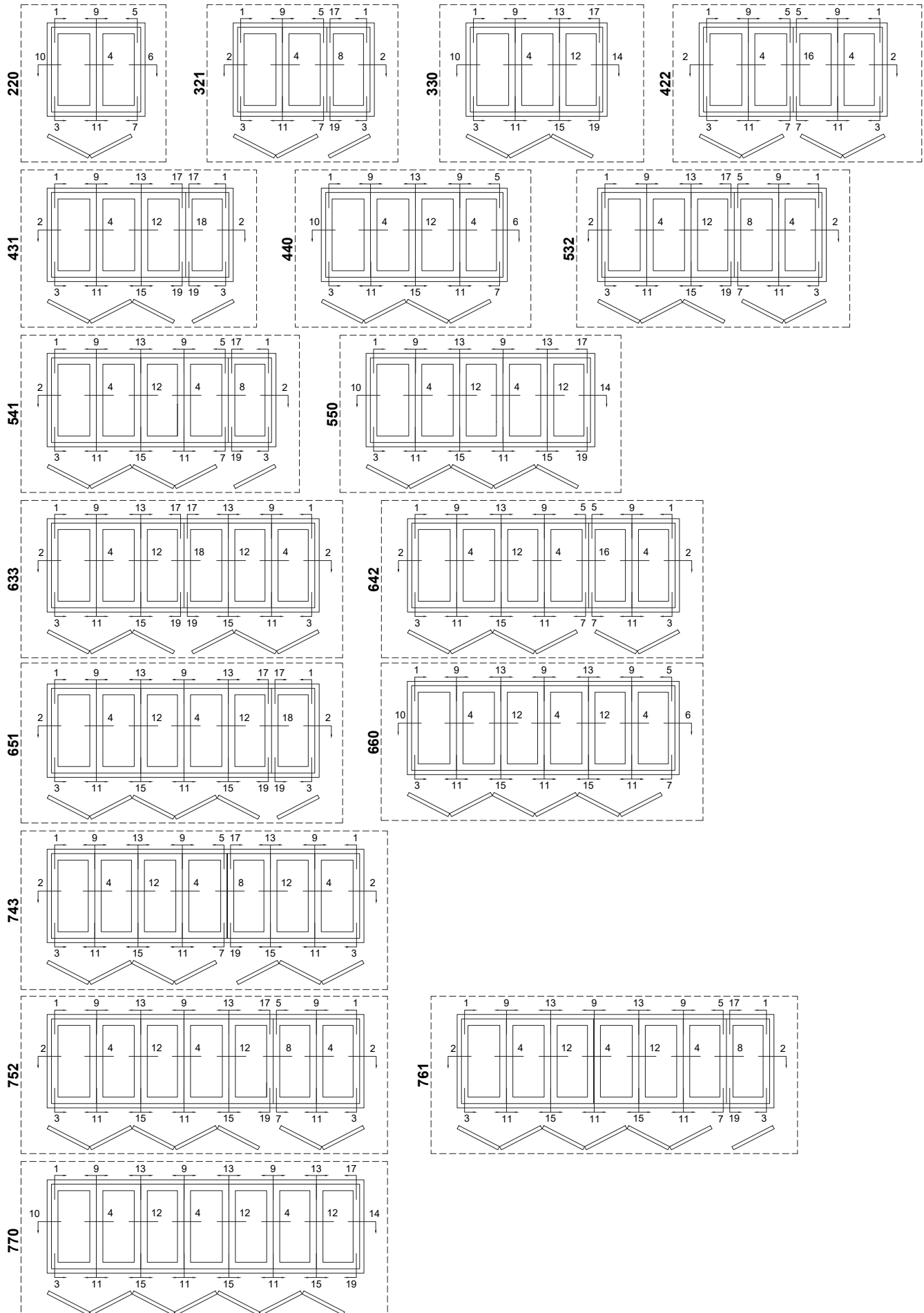
IV

TIPOLOGIAS E MAPA DE QUANTIDADES
TYPES AND QUANTITY MAPS | TYPES ET CARTES DE QUANTITÉS

PORMENORES DE ACORDO COM AS TIPOLOGIAS

DETAILS ACCORDING TO TYPOLOGIES

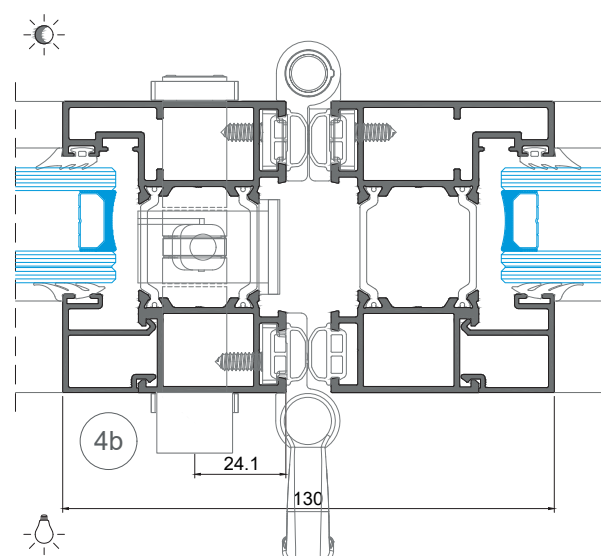
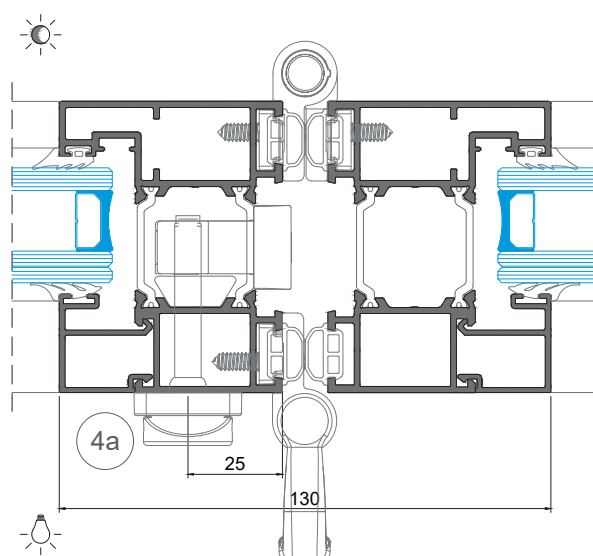
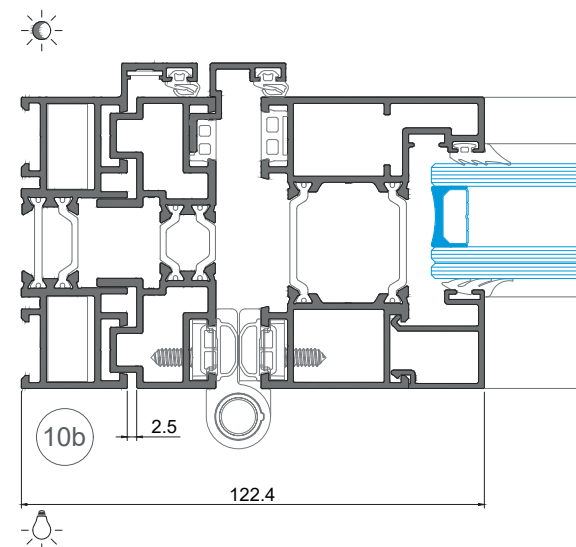
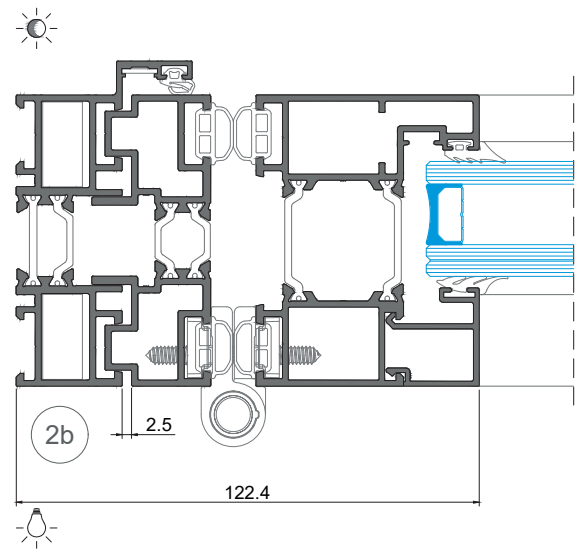
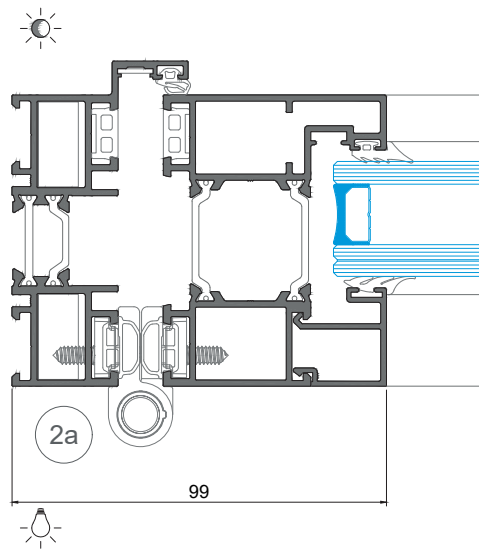
DÉTAILS SELON LES TYPOLOGIES



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING

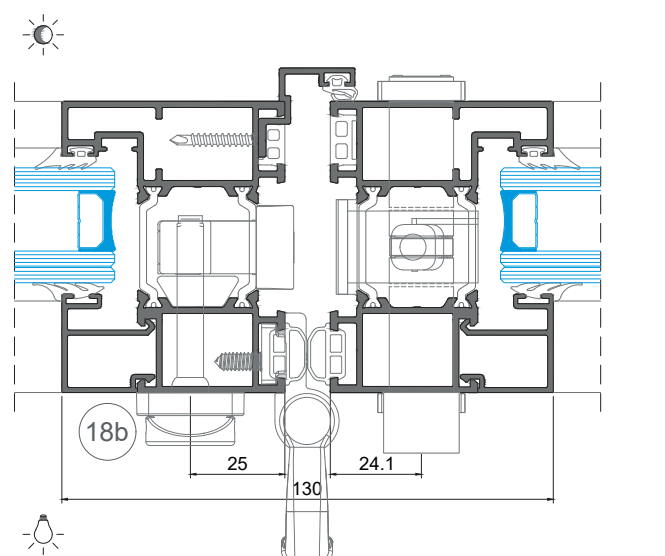
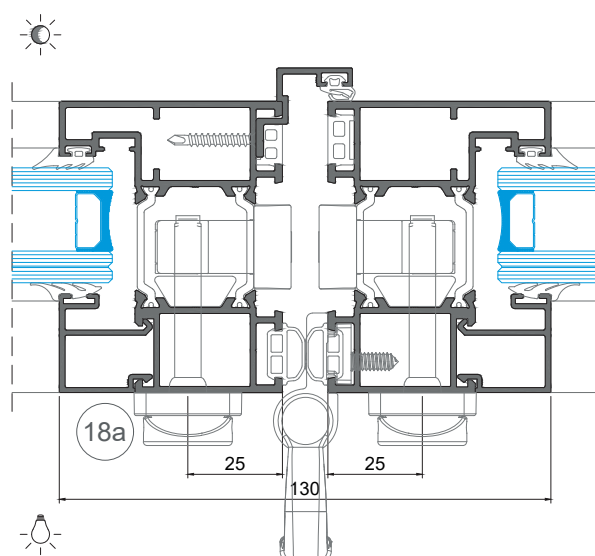
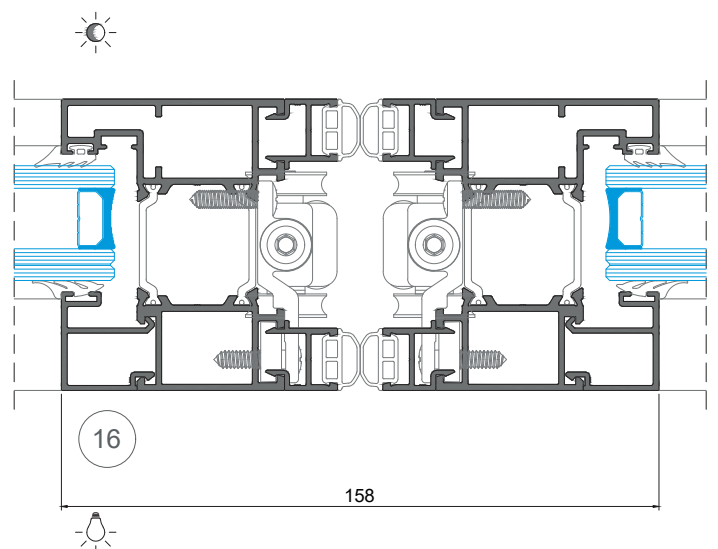
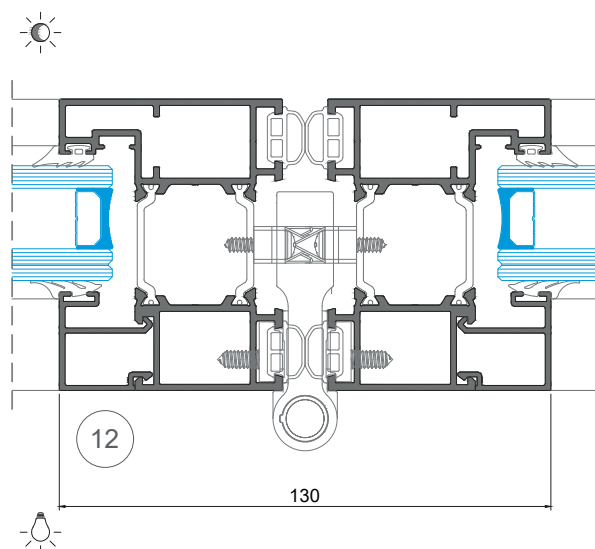
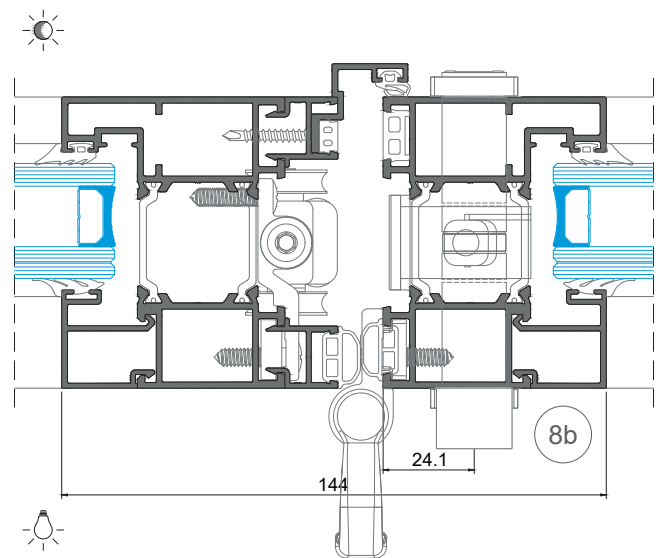
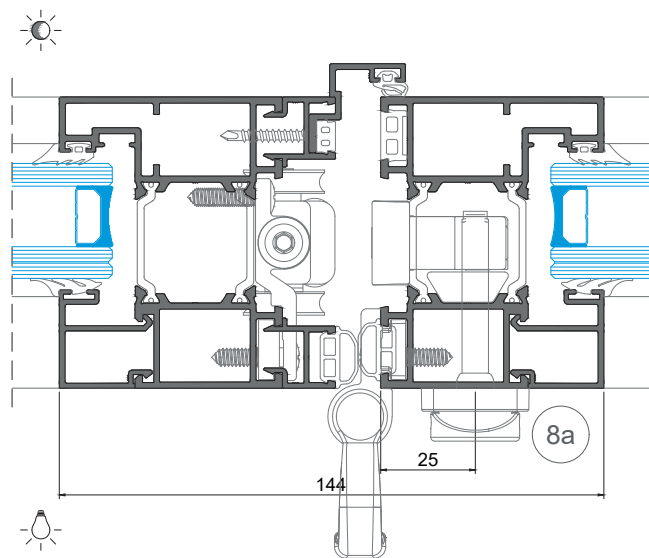
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

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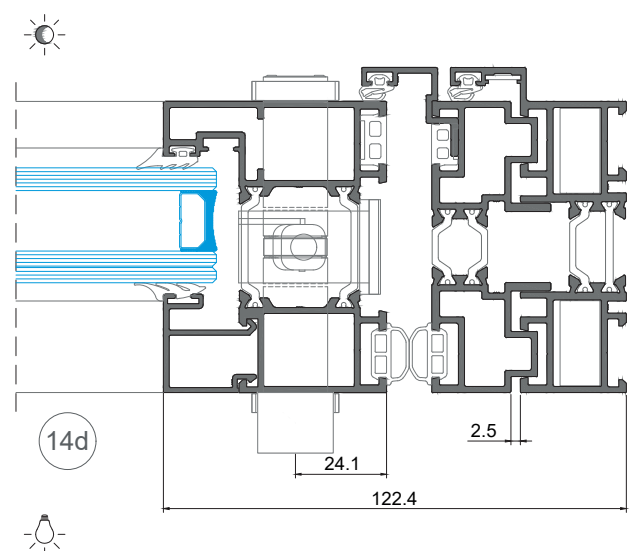
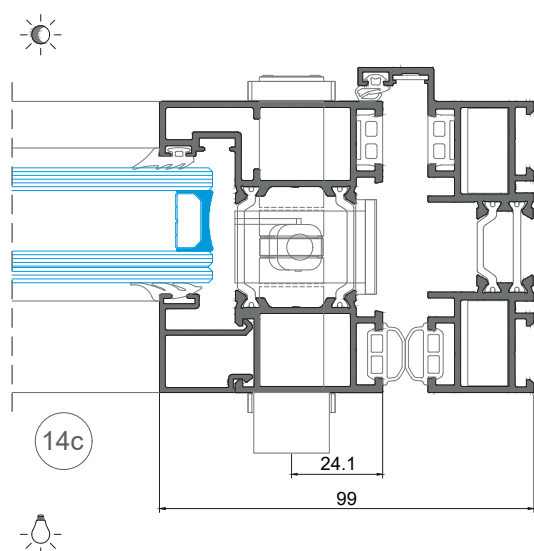
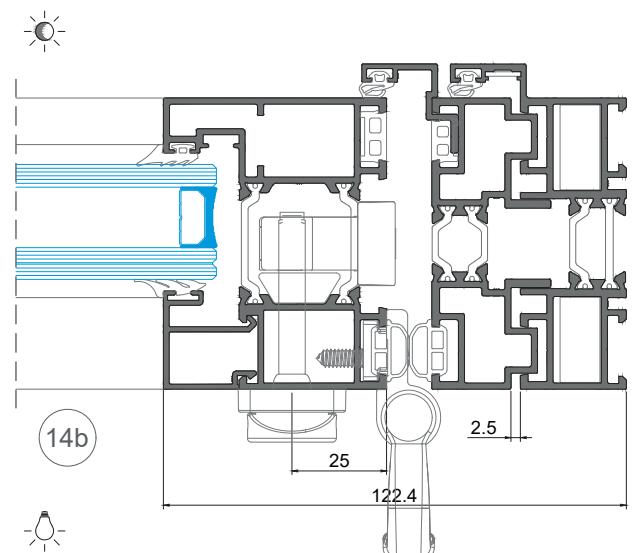
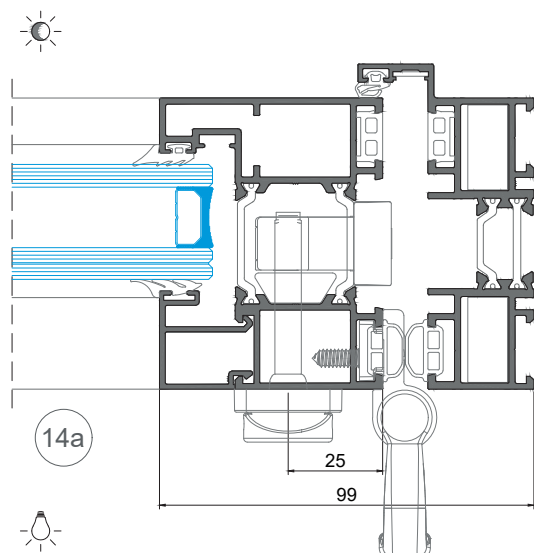
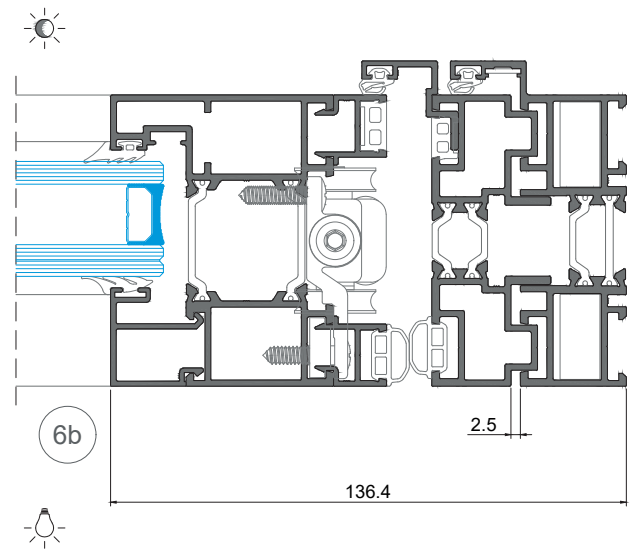
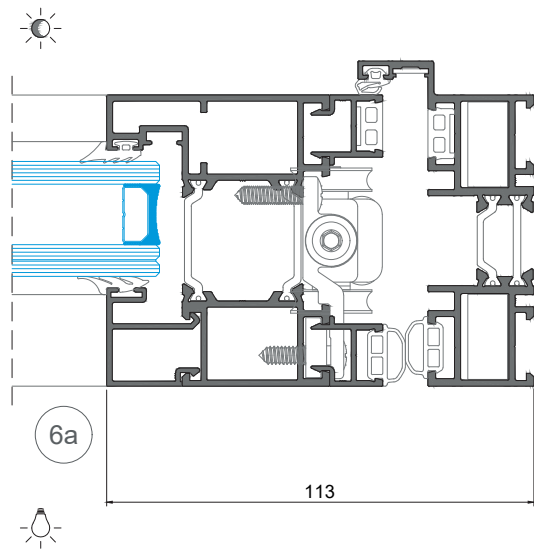
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING

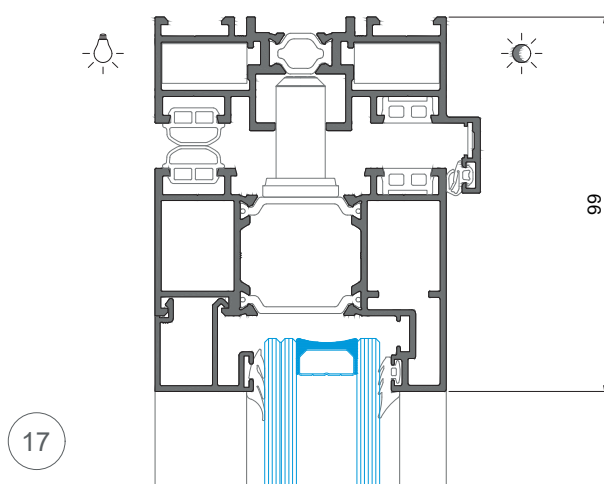
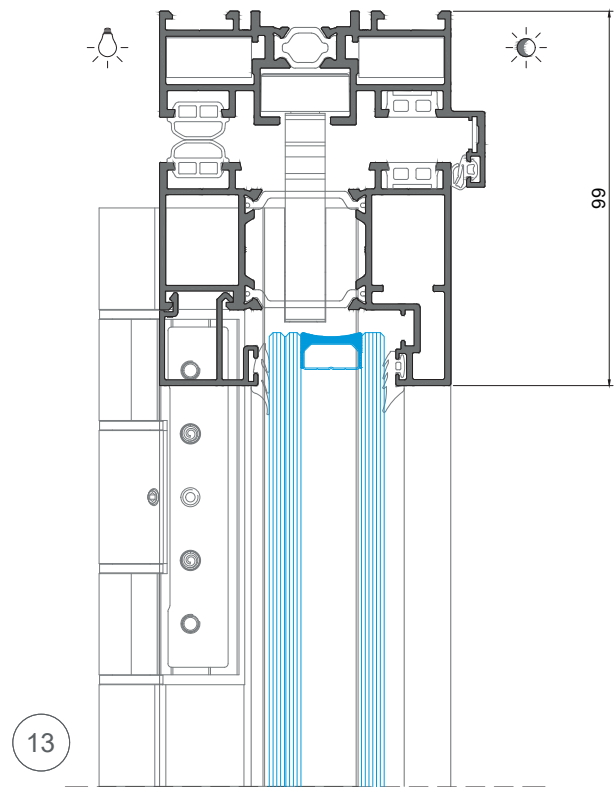
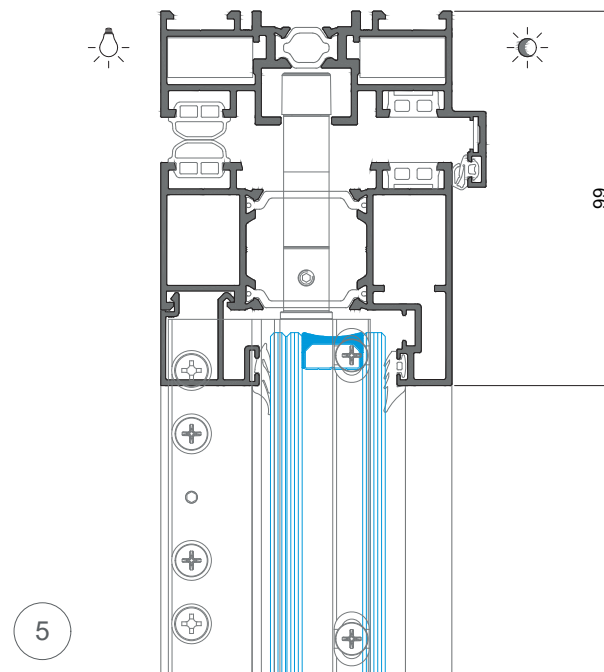
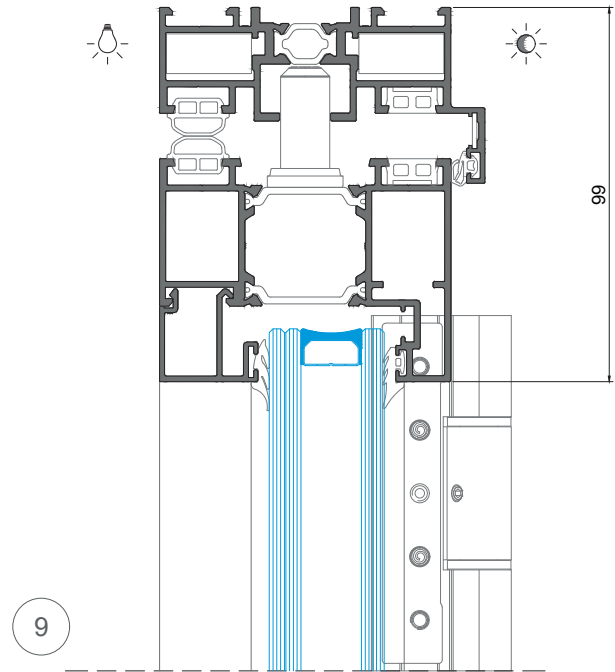
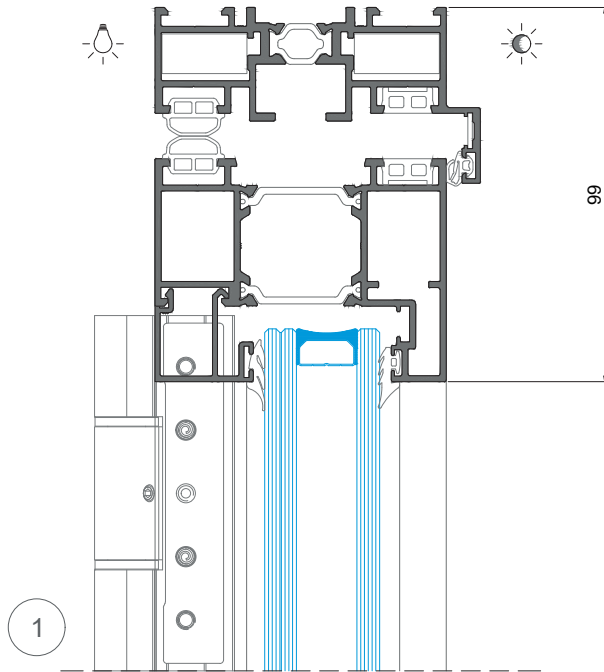
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING

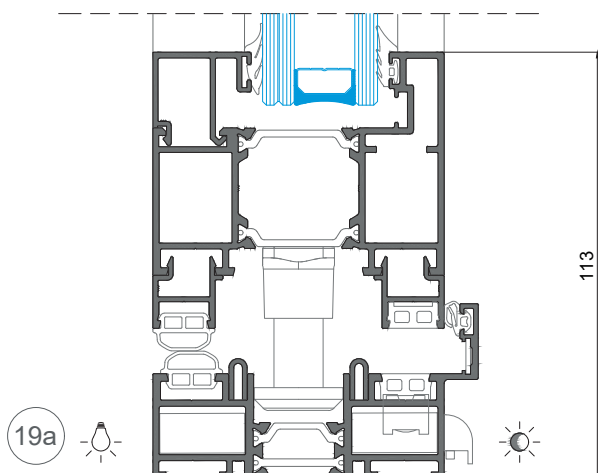
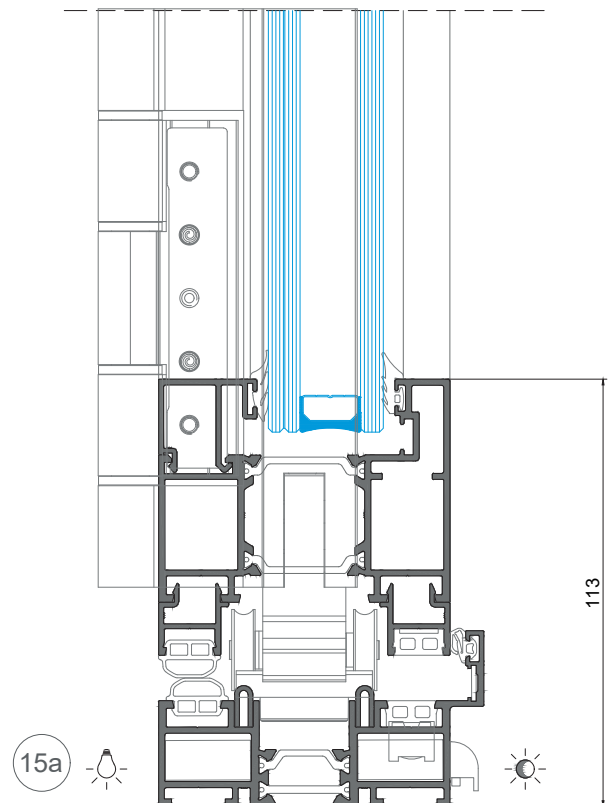
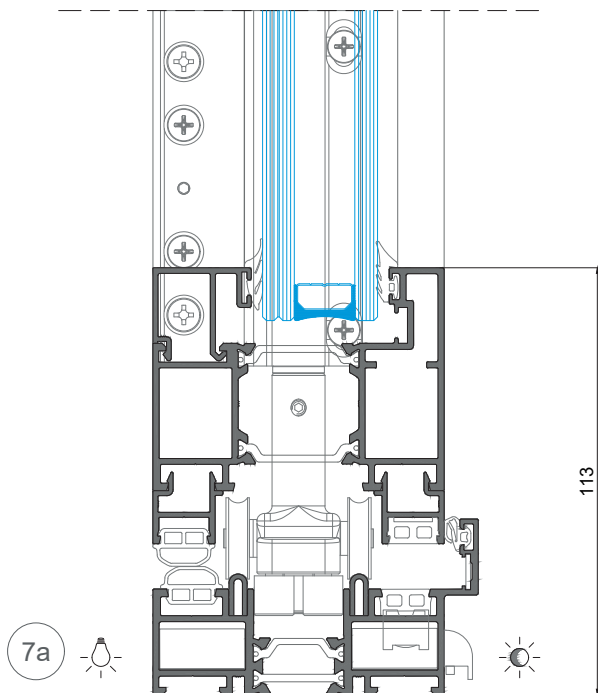
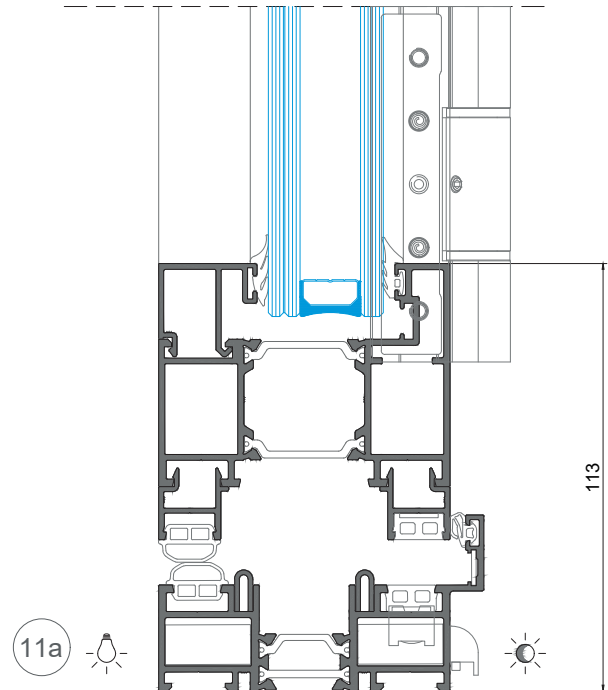
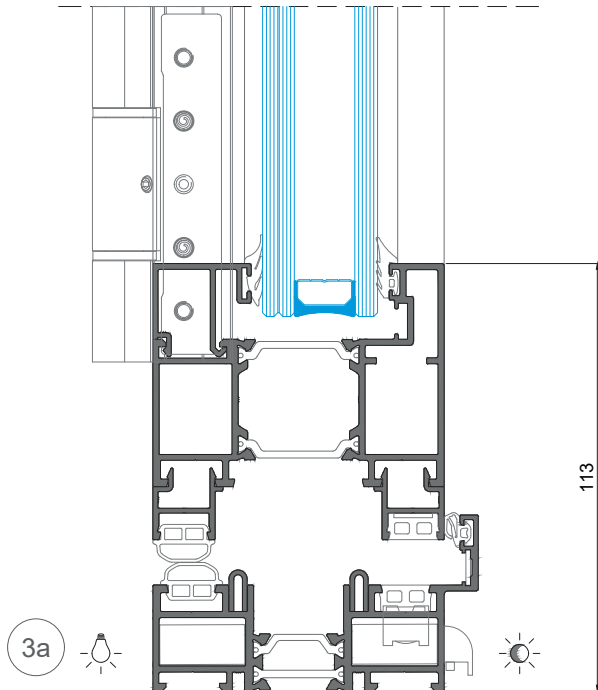
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

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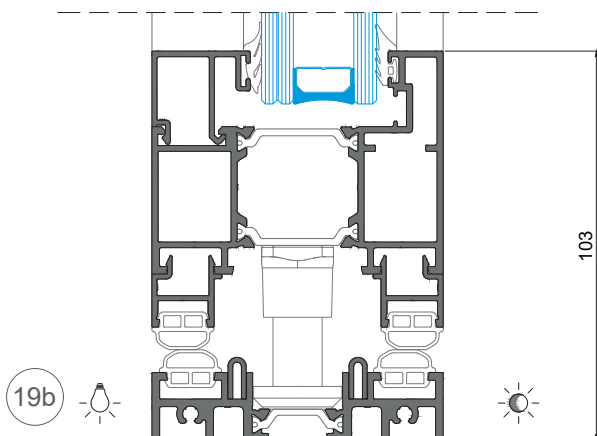
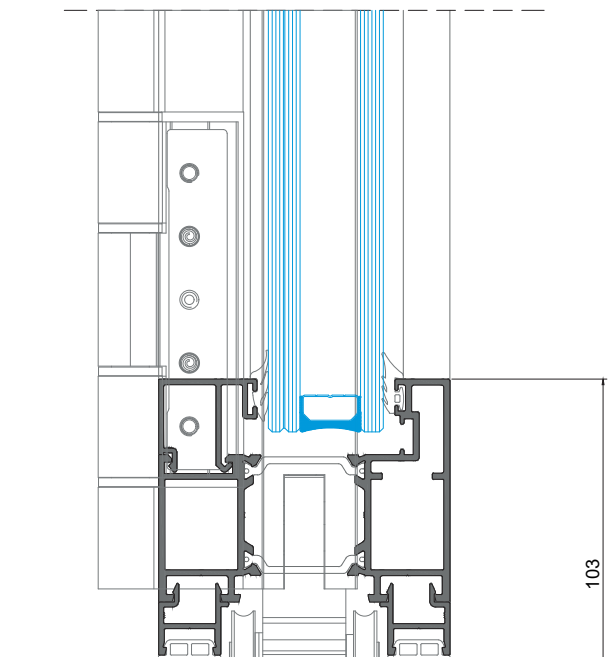
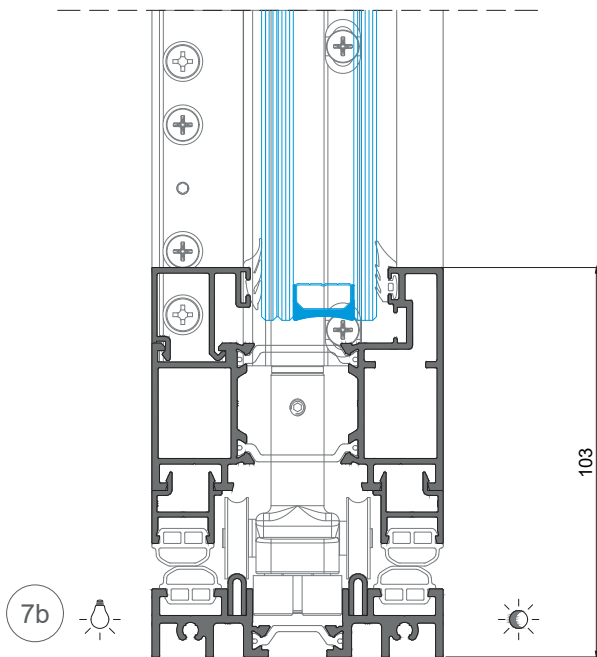
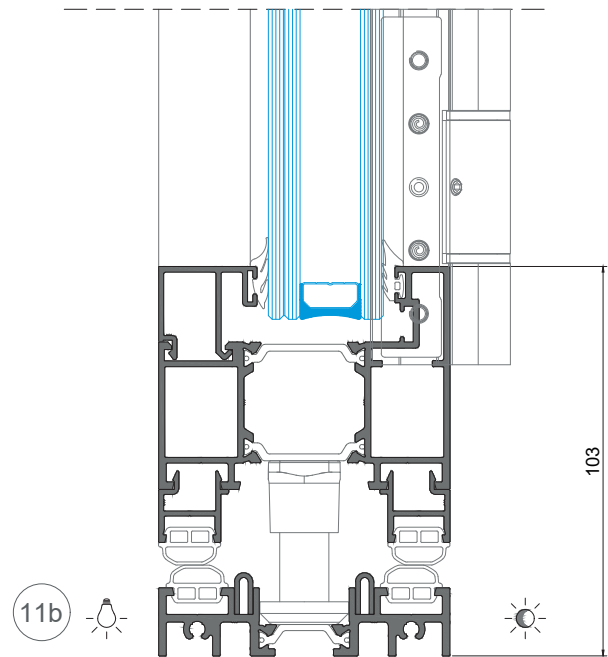
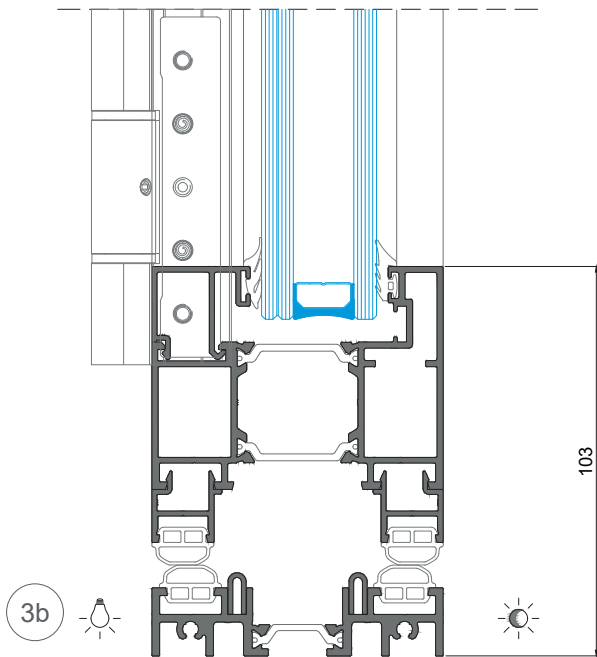
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

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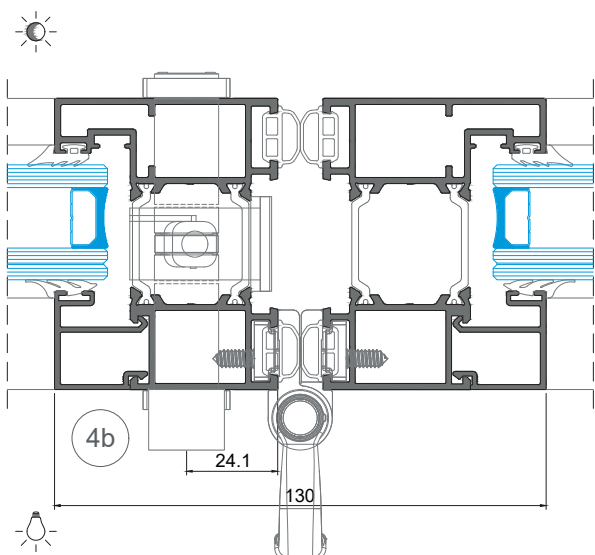
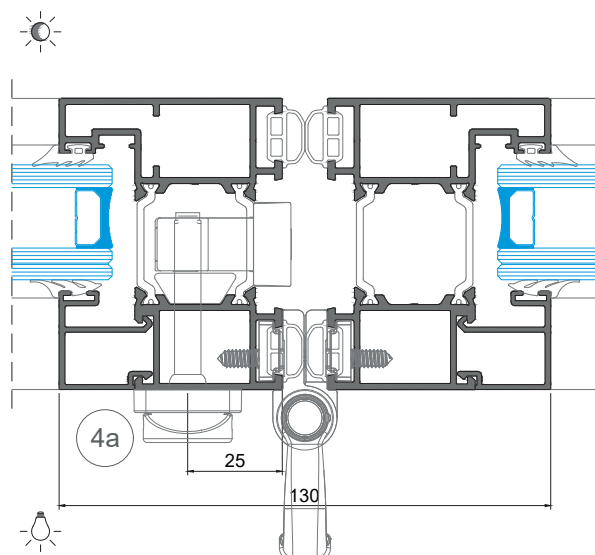
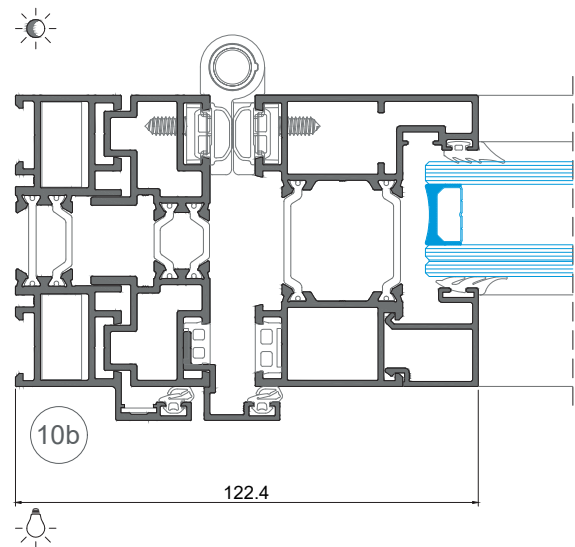
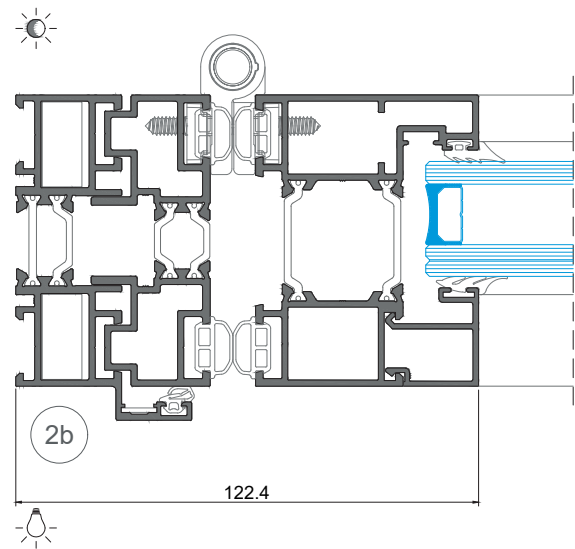
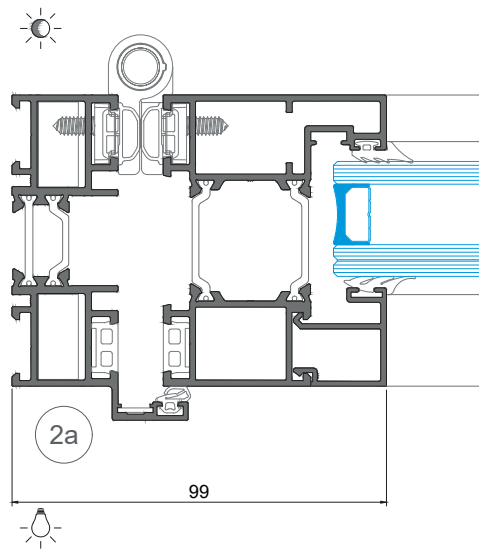
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING

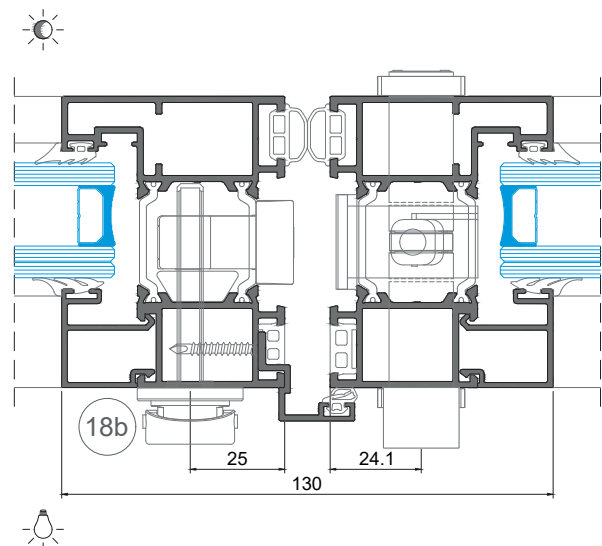
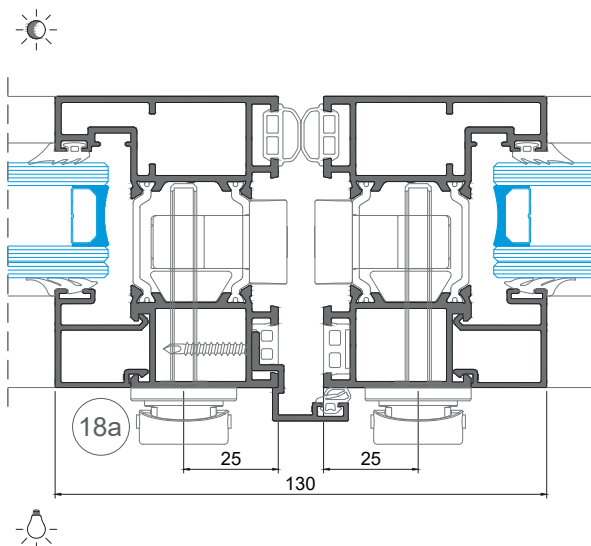
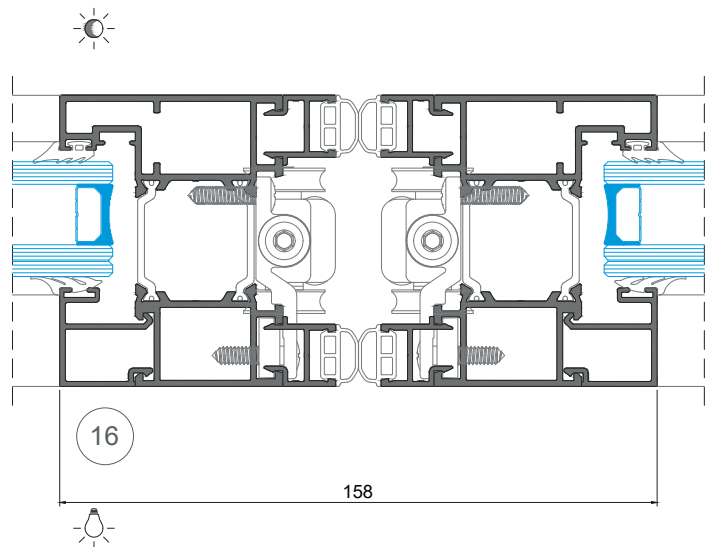
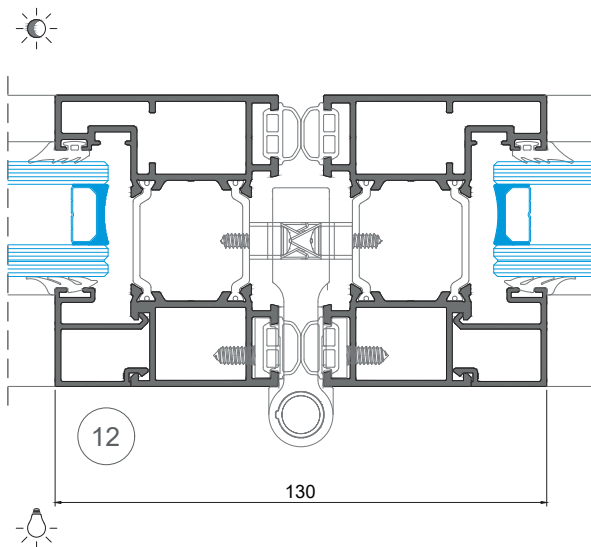
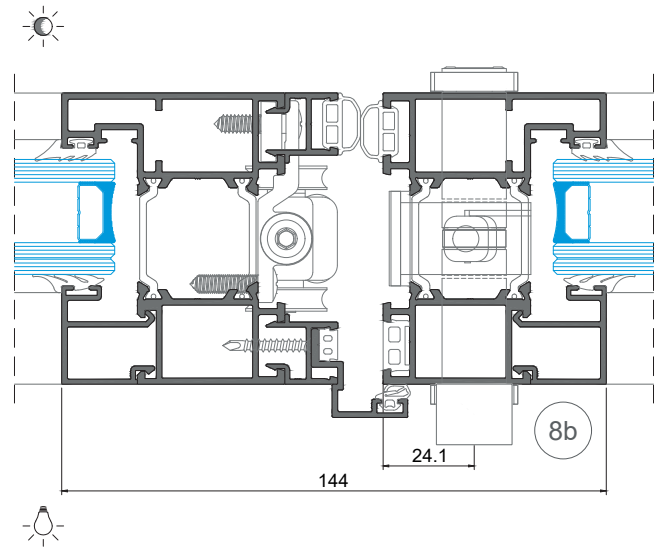
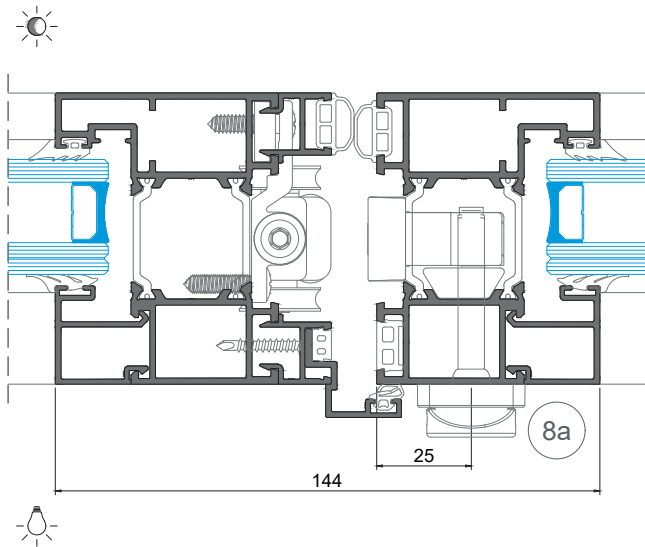
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

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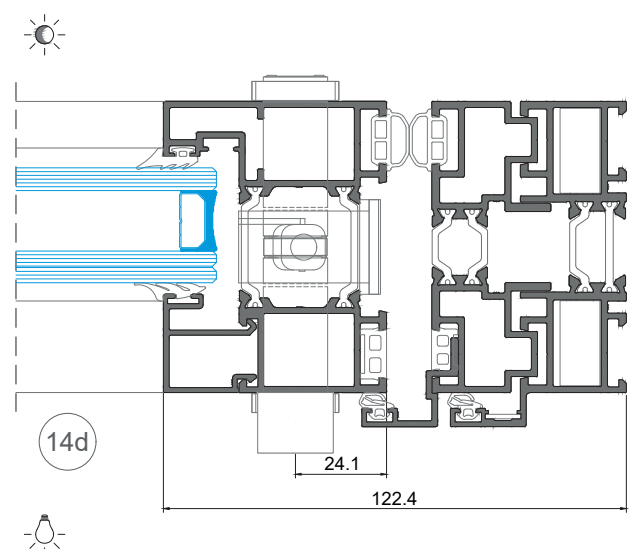
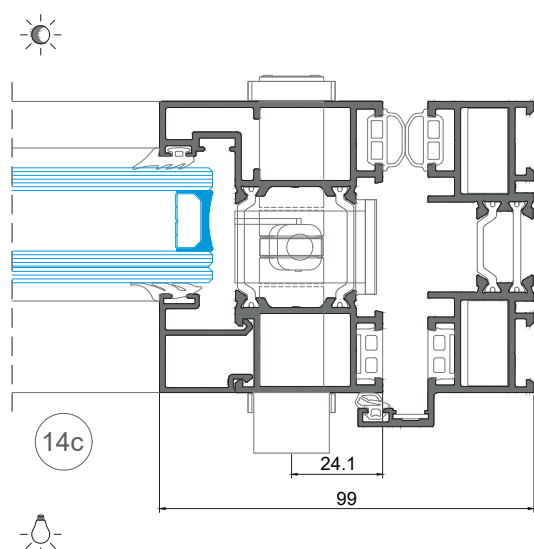
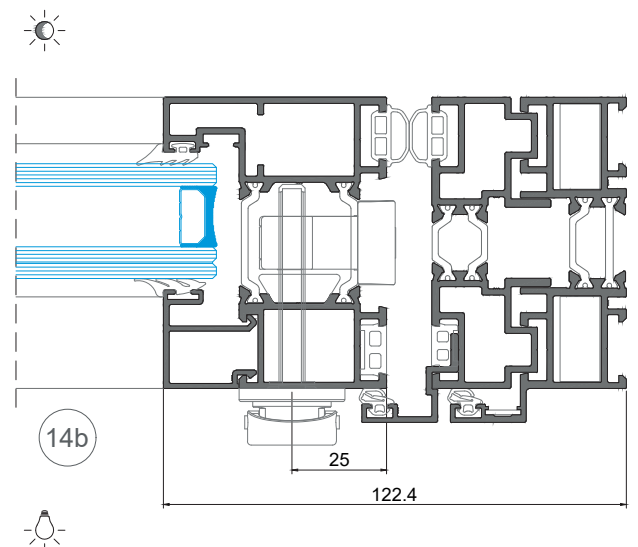
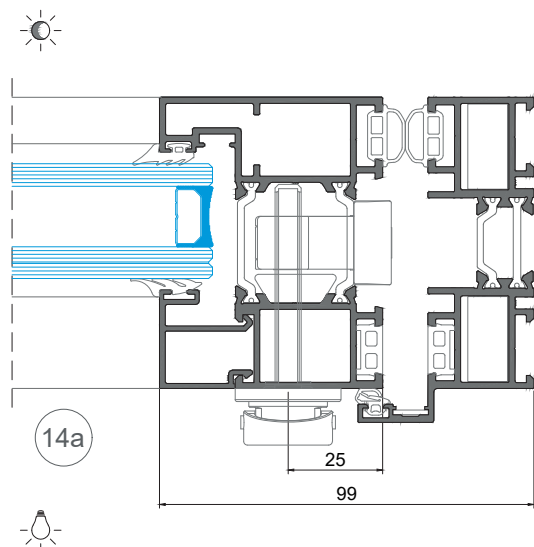
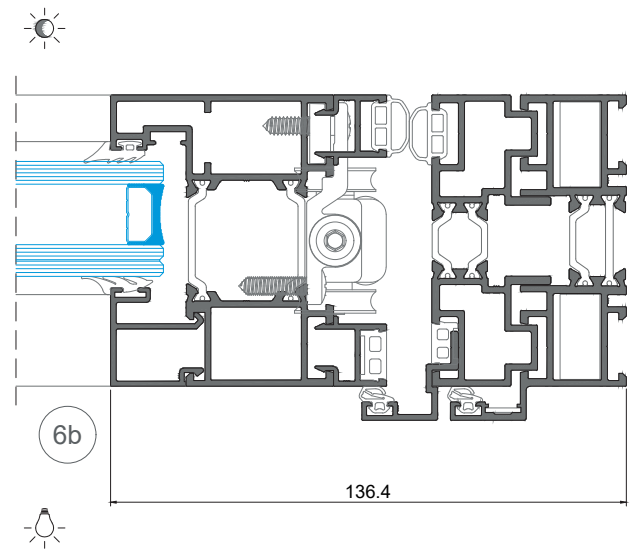
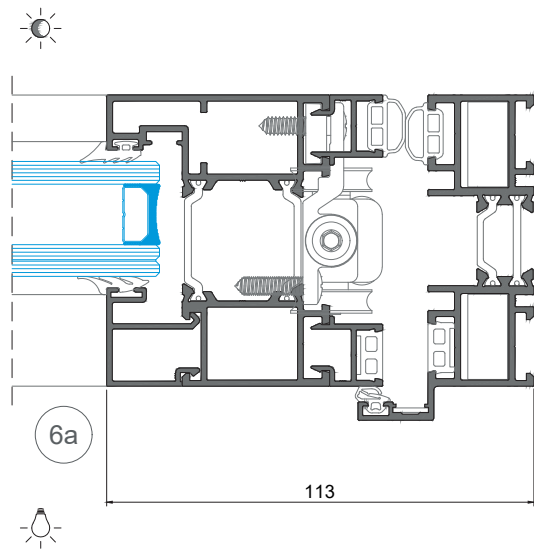
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING

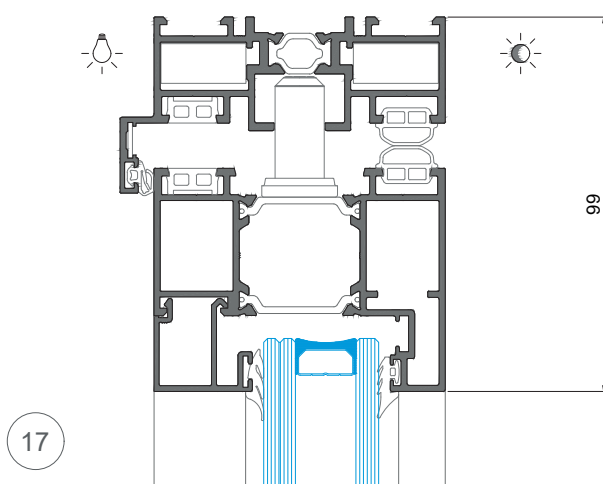
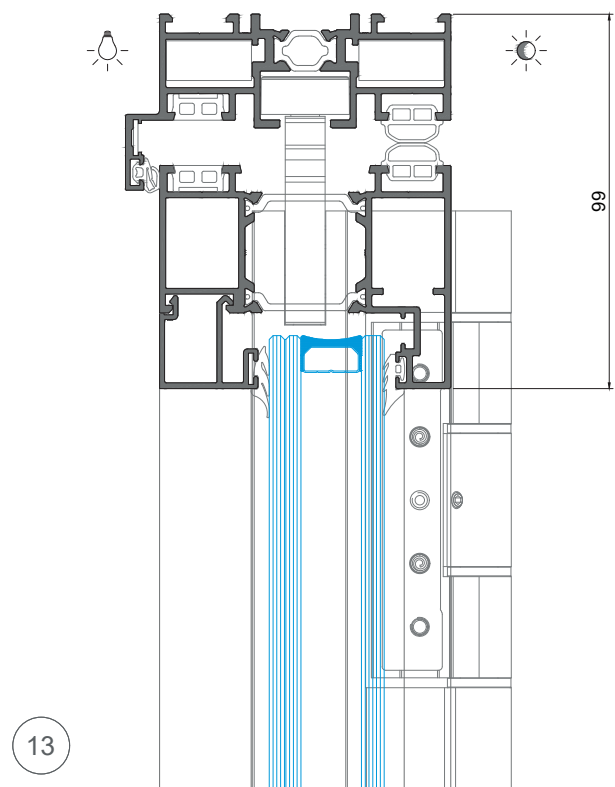
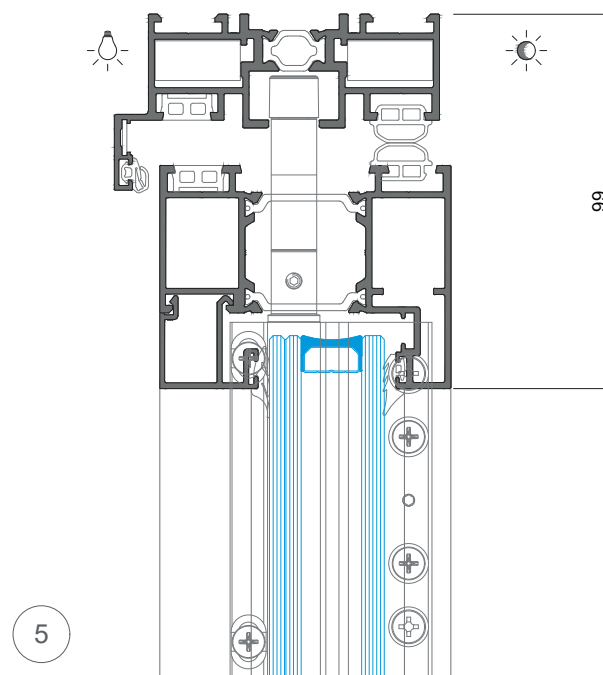
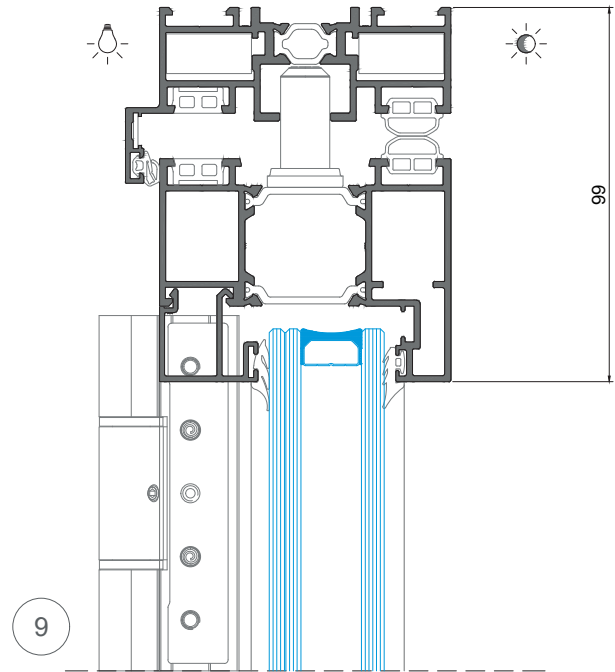
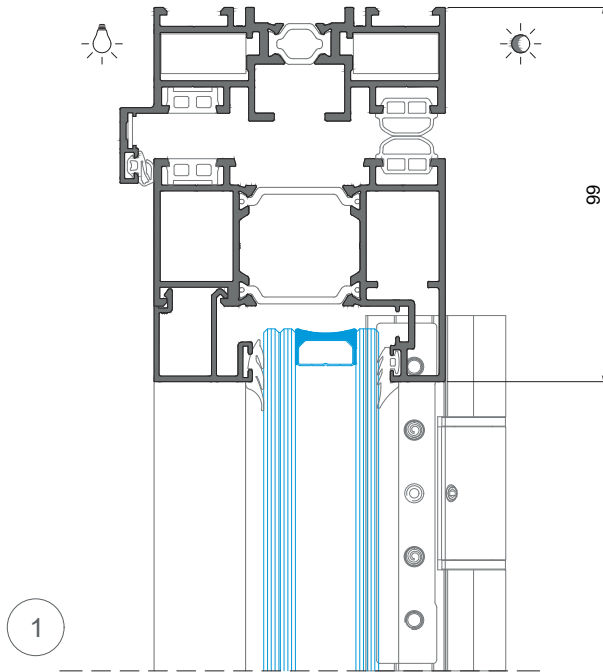
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING

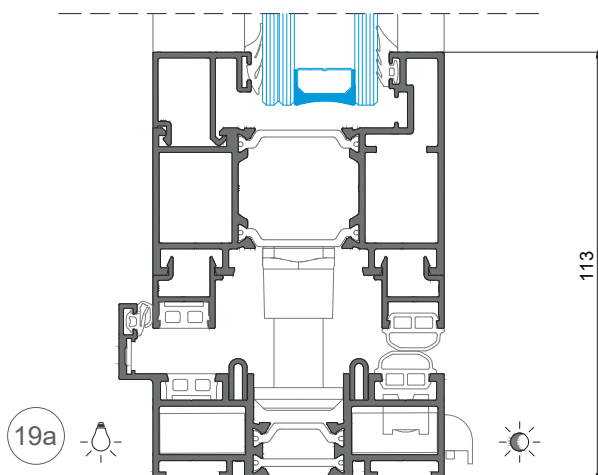
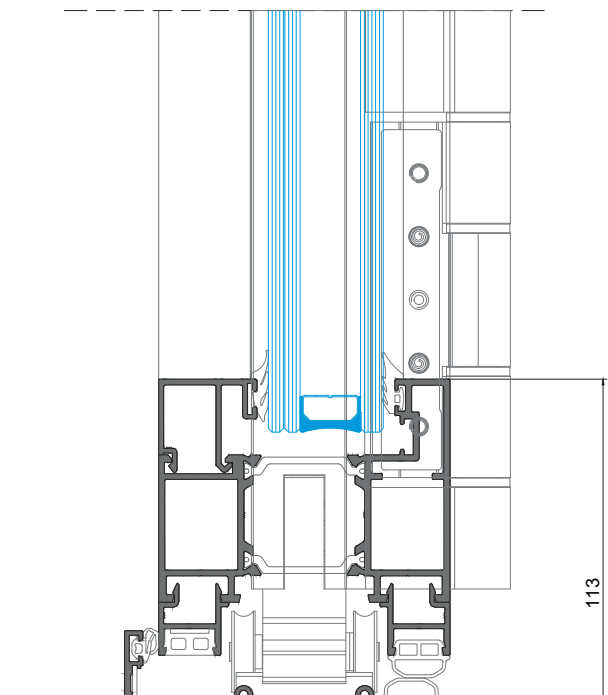
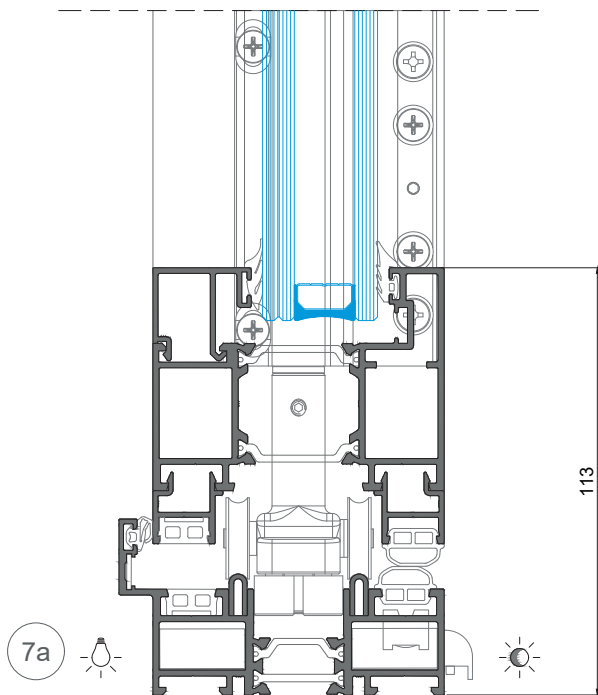
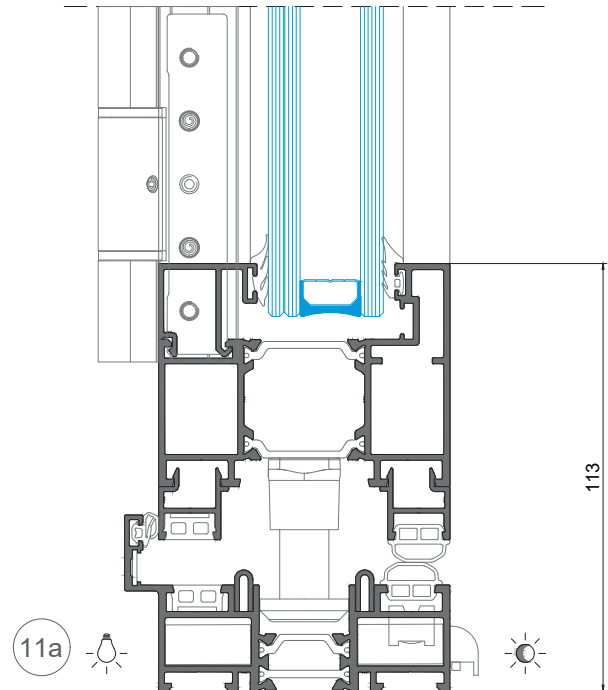
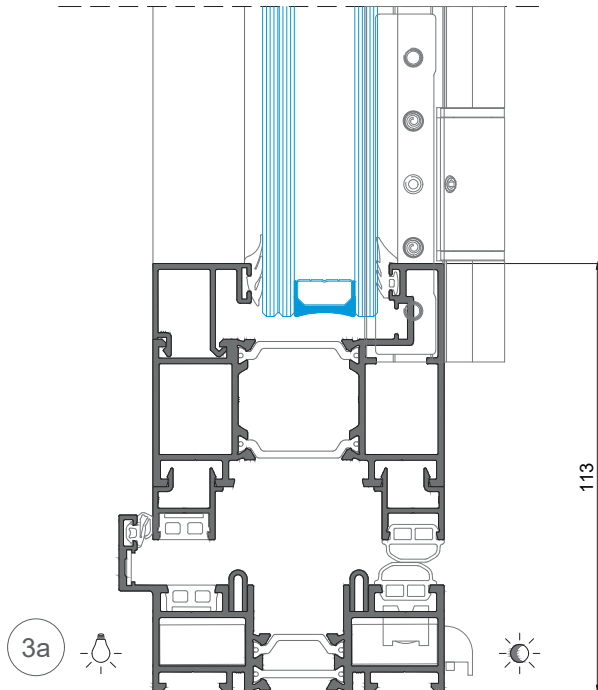
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING

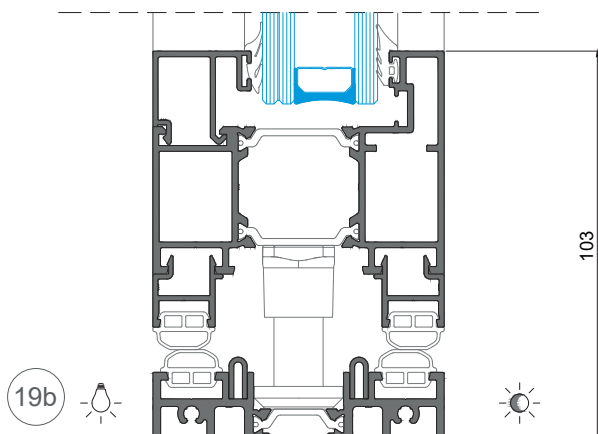
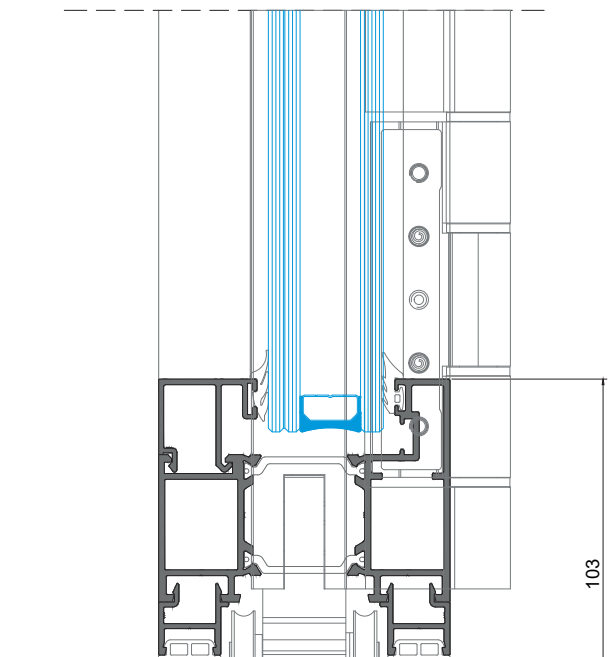
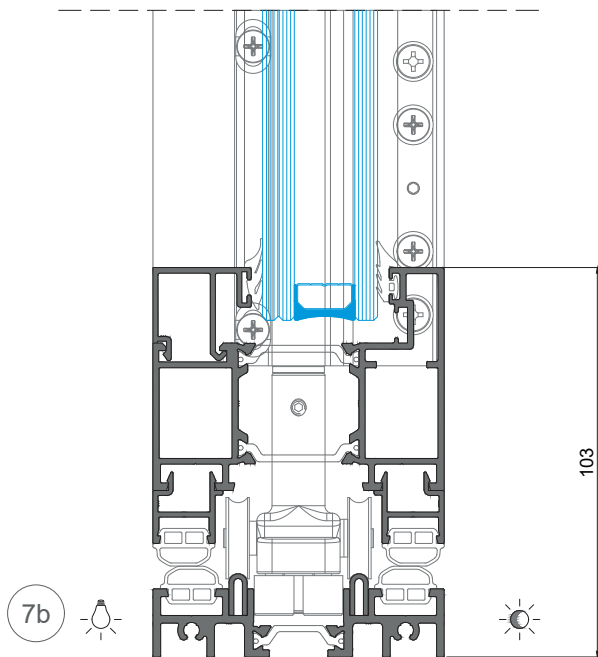
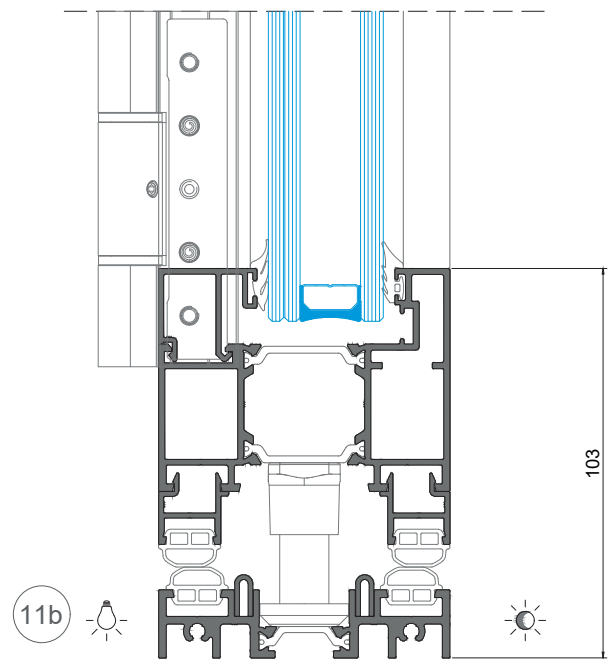
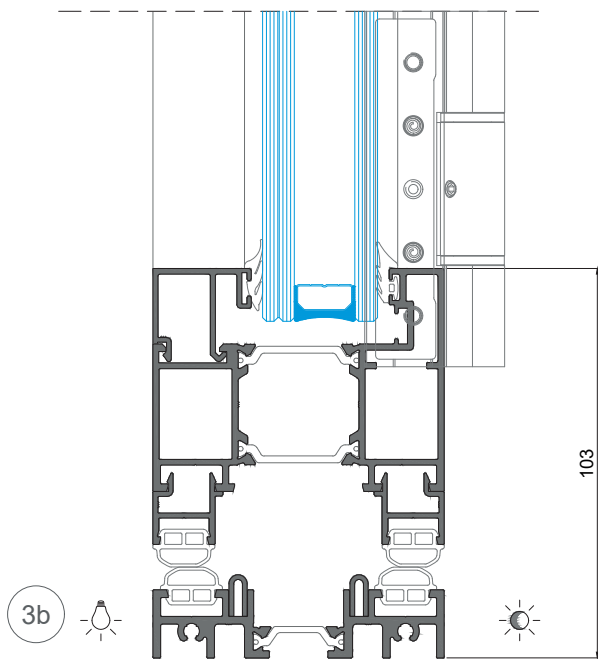
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING

DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR

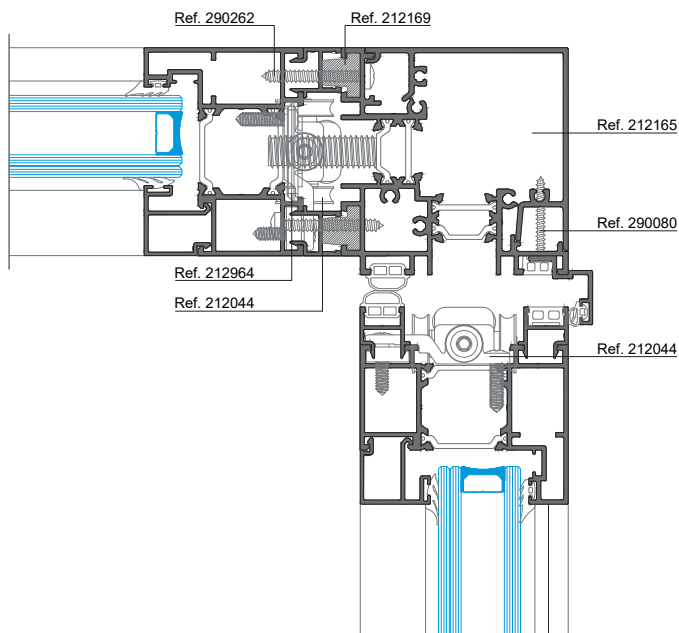


PORMENORES DE CANTO

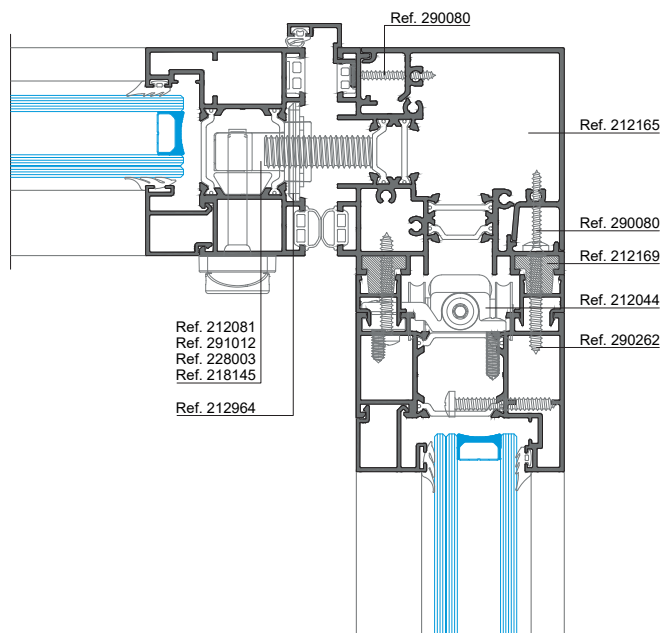
CORNER DETAILS

DÉTAILS DU COIN

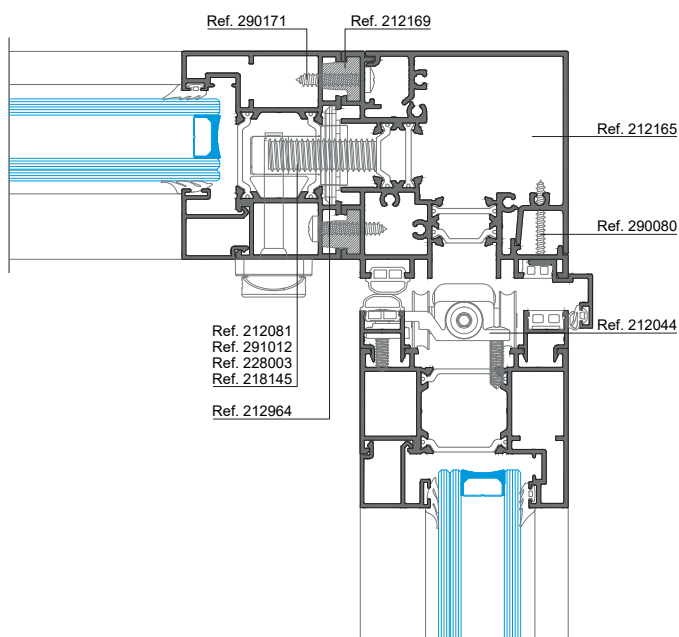
- **FOLHA PAR COM PERFIL DE CANTO | FOLHA PAR**
EVEN SASH WITH CORNER PROFILE | EVEN SASH
VANTAIL PAIRE AVEC PROFILÉ DE COIN | VANTAIL PAIRE



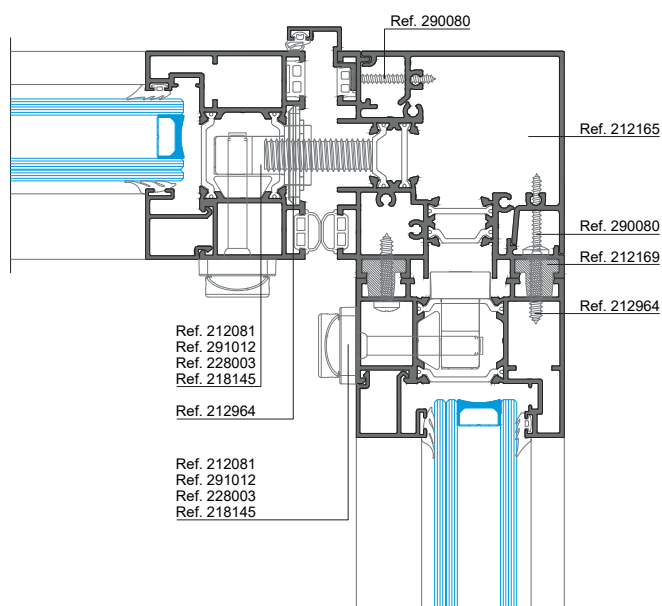
- **FOLHA PAR COM PERFIL DE CANTO | FOLHA ÍMPAR**
EVEN SASH WITH CORNER PROFILE | ODD SASH
VANTAIL PAIRE AVEC PROFILÉ DE COIN | VANTAIL IMPAIRE



- **FOLHA ÍMPAR COM PERFIL DE CANTO | FOLHA PAR**
ODD SASH WITH CORNER PROFILE | EVEN SASH
VANTAIL IMPAIRE AVEC PROFILÉ DE COIN | VANTAIL PAIRE



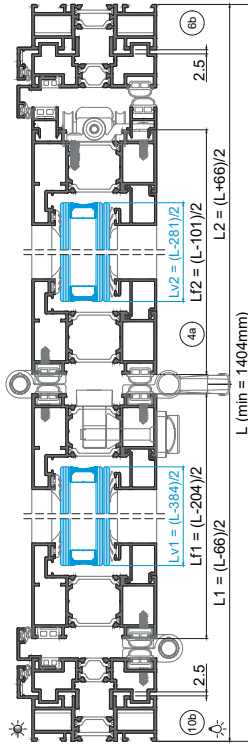
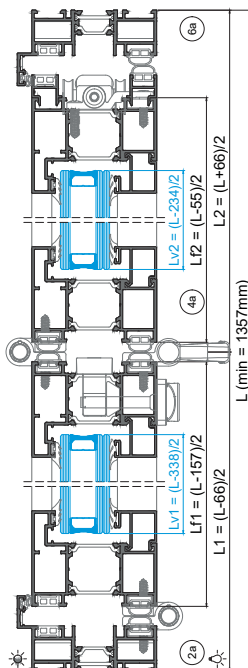
- **FOLHA ÍMPAR COM PERFIL DE CANTO | FOLHA ÍMPAR**
ODD SASH WITH CORNER PROFILE | ODD SASH
VANTAIL IMPAIRE AVEC PROFILÉ DE COIN | VANTAIL IMPAIRE



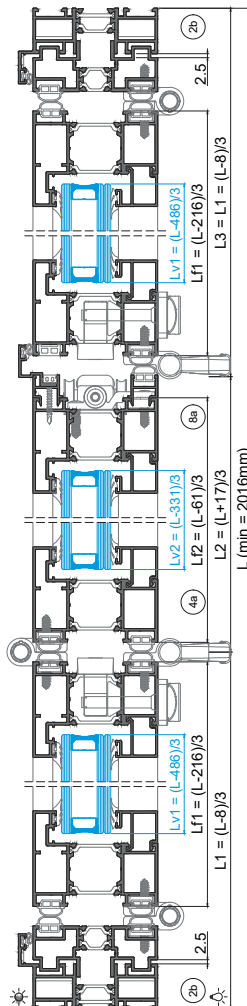
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR
DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR

• **220**

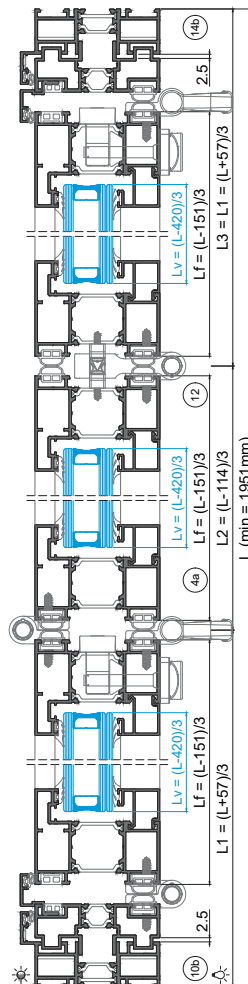
• **220 com | with | avec HT 82**



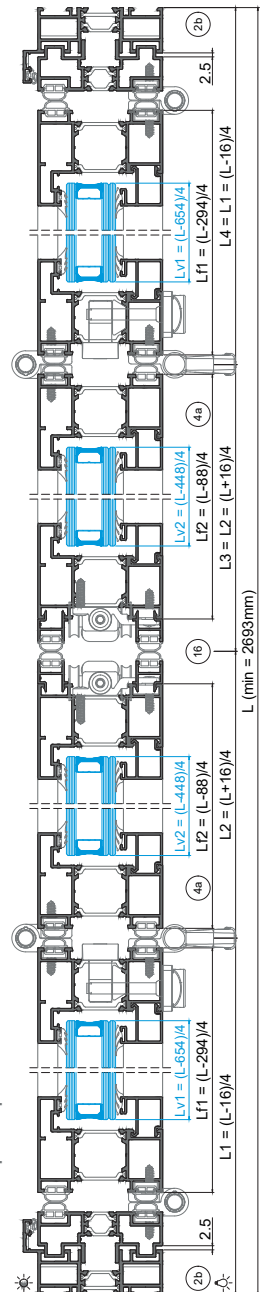
• **321 com | with | avec HT 82**



• **330 com | with | avec HT 82**

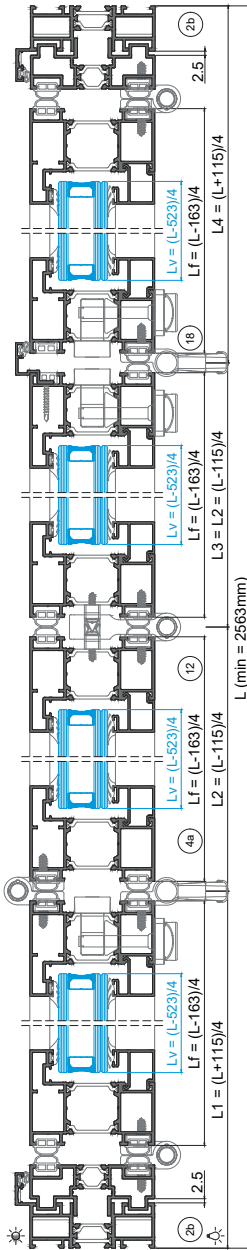


• **422 com | with | avec HT 82**

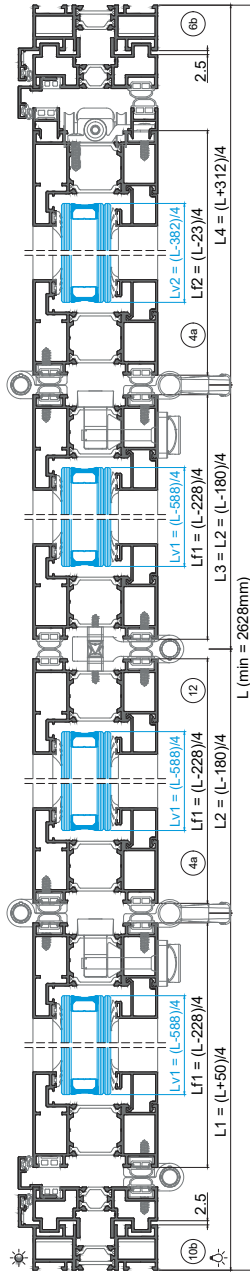


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR
DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR

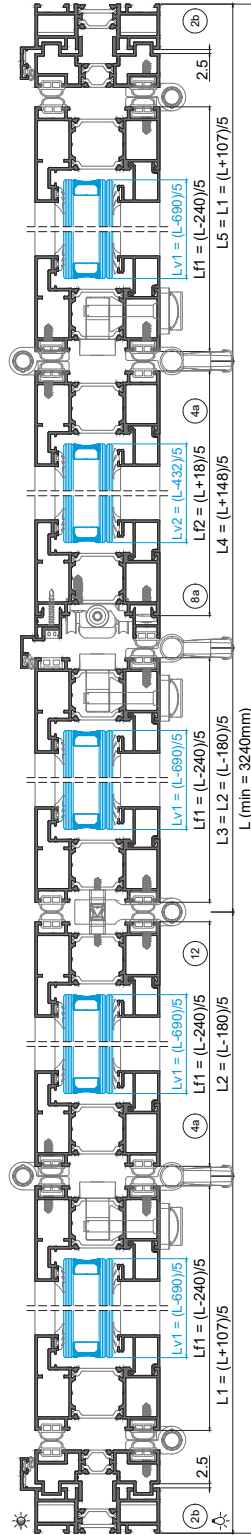
- **431 com** | with | avec HT 82



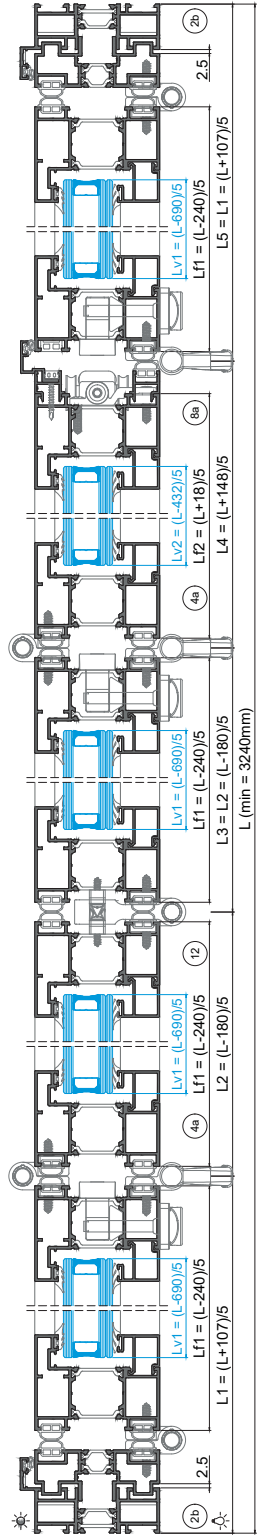
- **440 com** | with | avec HT 82



- **532 com** | with | avec HT 82

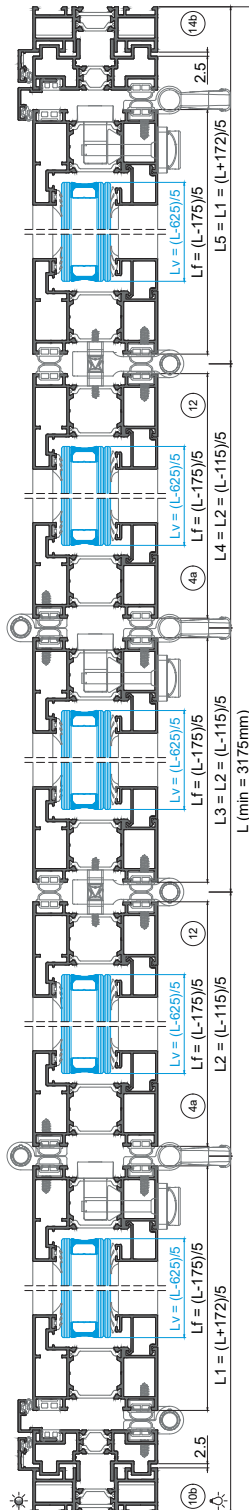


- **541 com** | with | avec HT 82

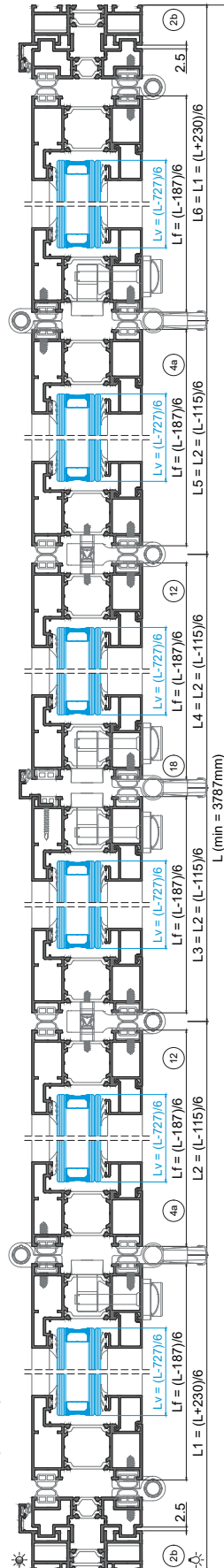


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR
DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR

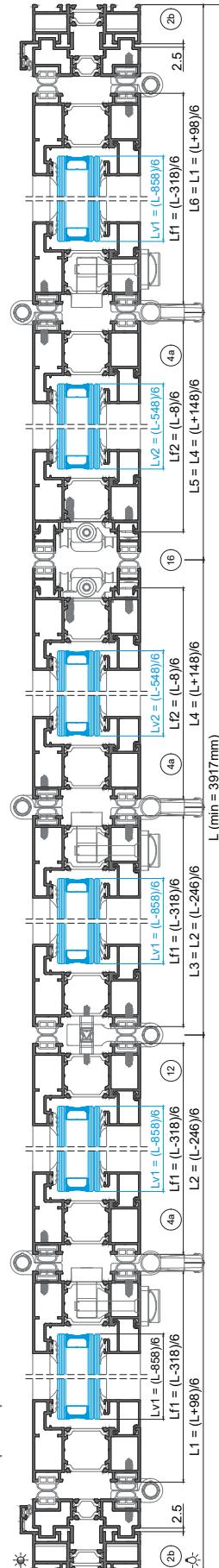
- **550 com** | with | avec HT 82



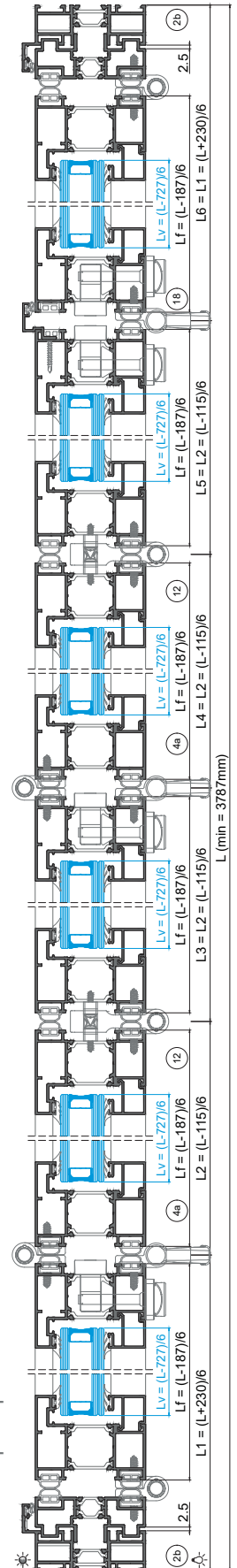
- **633 com** | with | avec HT 82



- **642 com** | with | avec HT 82

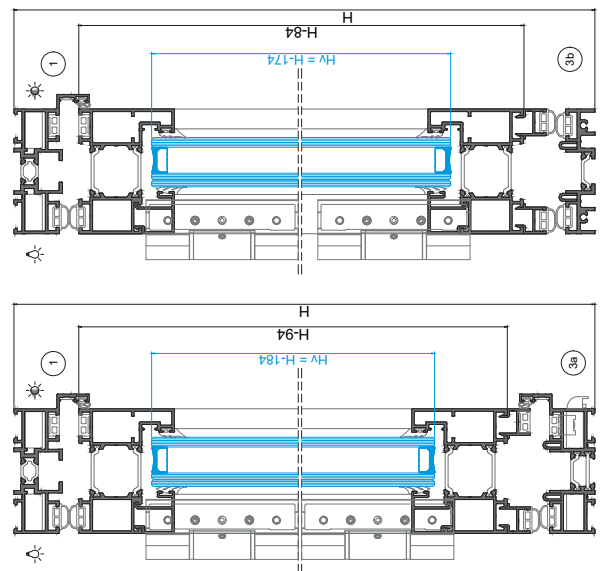
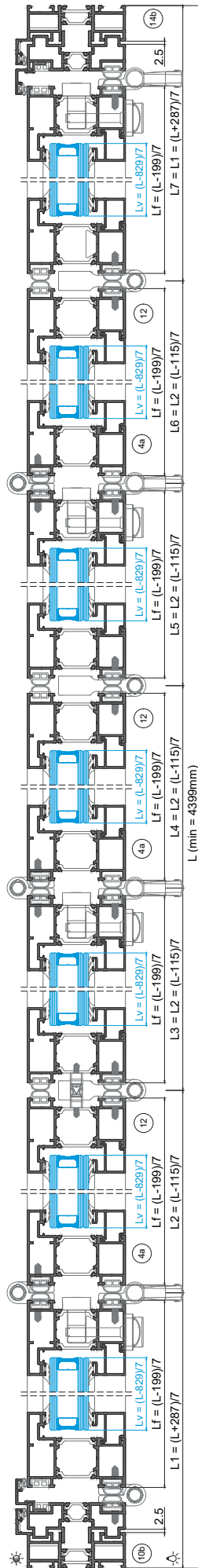


- **651 com** | with | avec HT 82



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR
DETAILS ACCORDING TO TYPOLOGIES - INWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'INTÉRIEUR

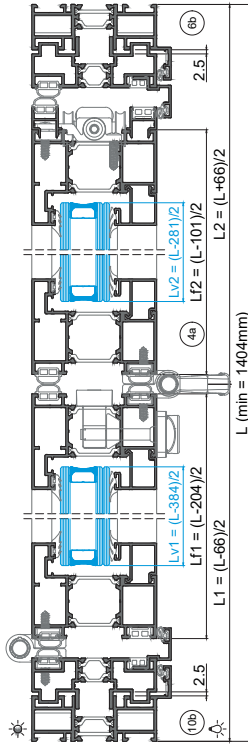
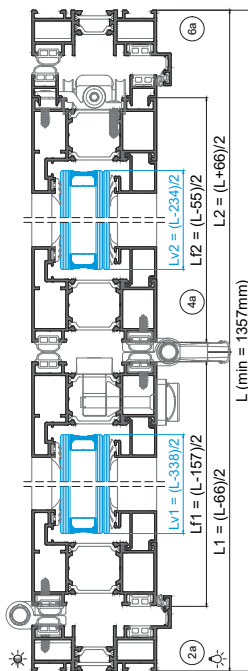
- 770 com | with | avec HT 82



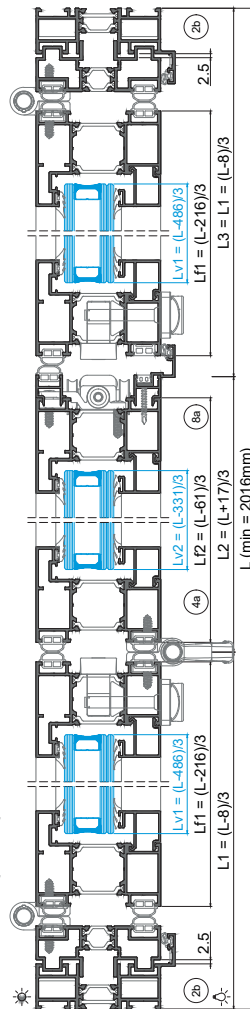
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR
DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR

• **220**

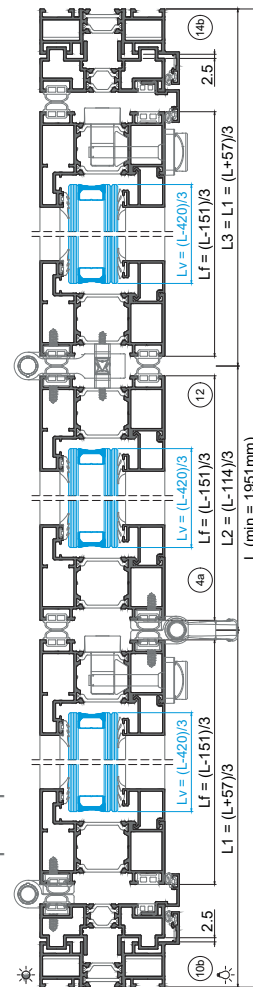
• **220 com | with | avec HT 82**



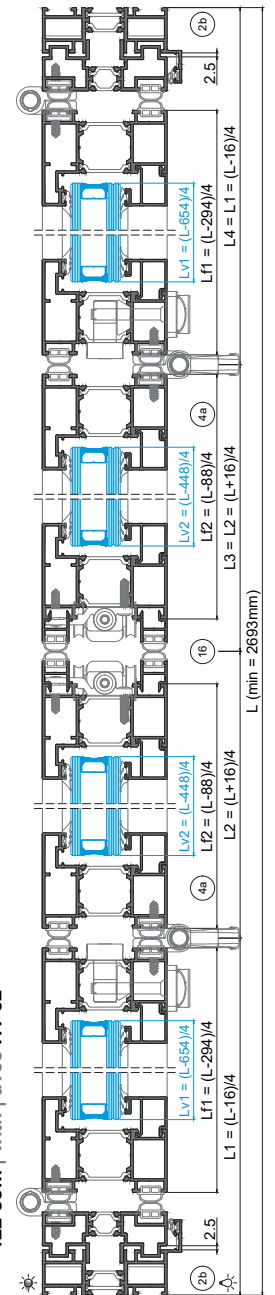
• **321 com | with | avec HT 82**



• **330 com | with | avec HT 82**

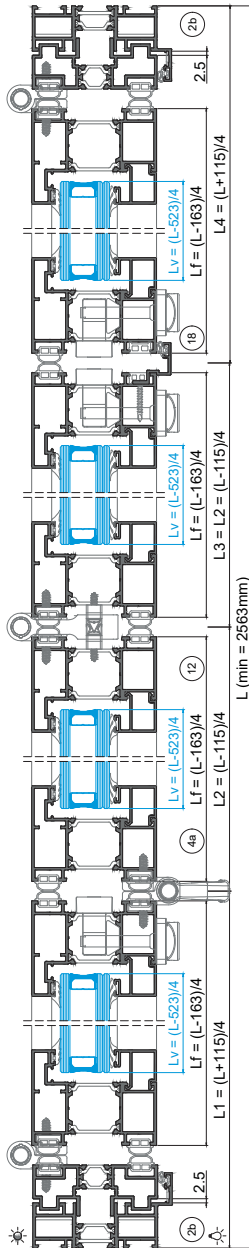


• **422 com | with | avec HT 82**

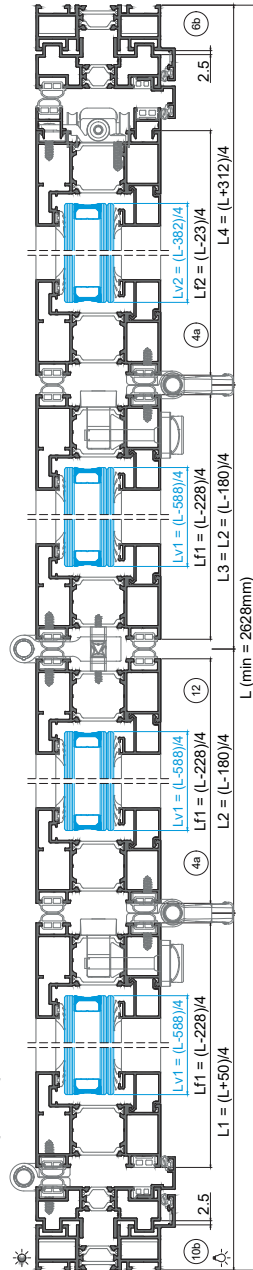


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR
DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR

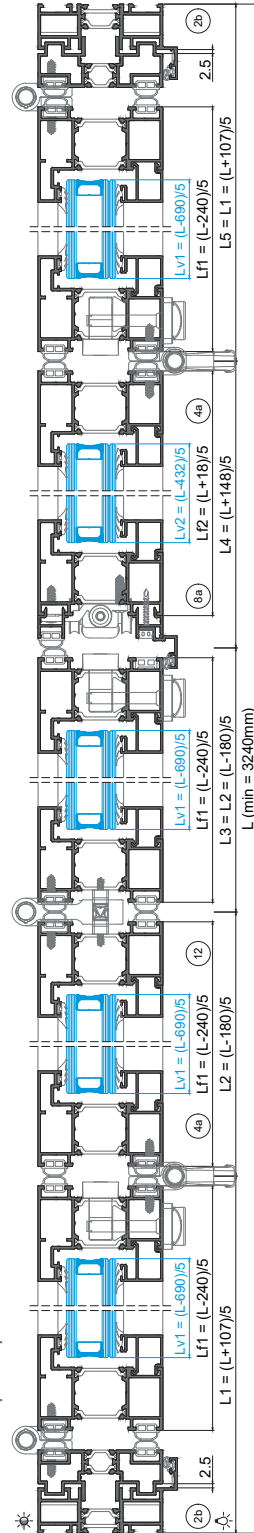
- 431 com | with | avec HT 82



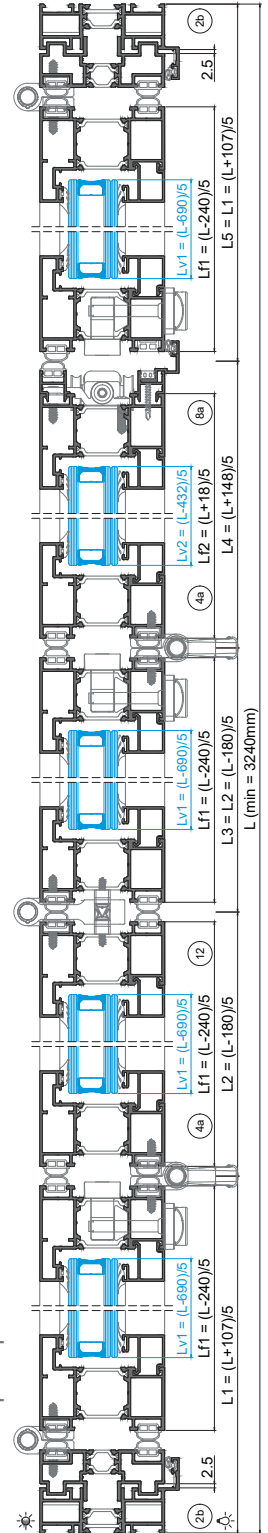
- 440 com | with | avec HT 82



- 532 com | with | avec HT 82

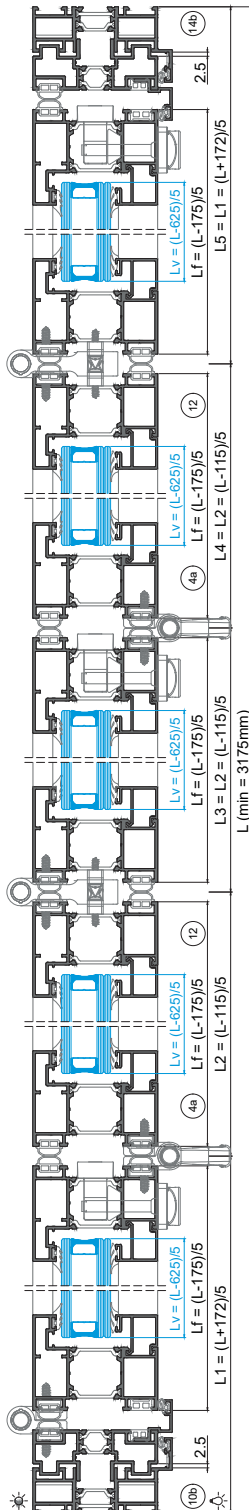


- 541 com | with | avec HT 82

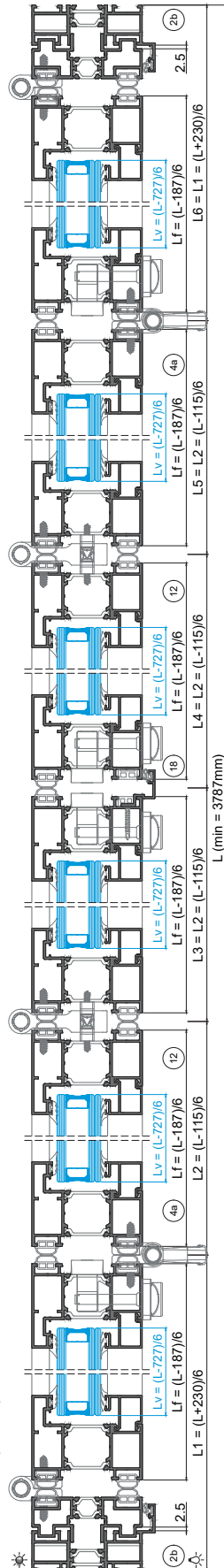


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR
DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR

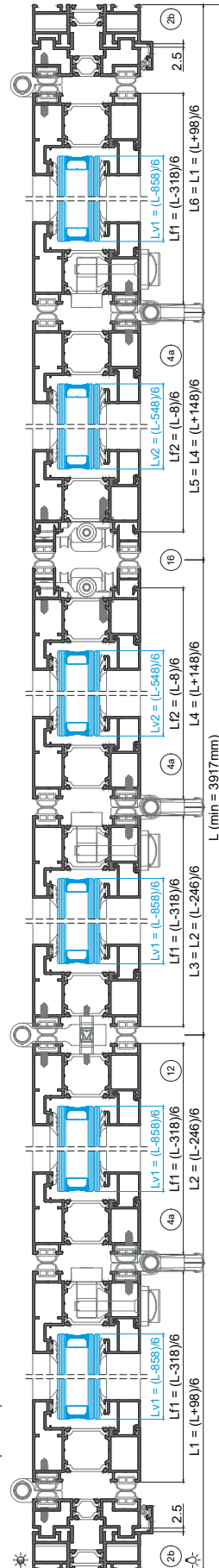
- 550 com | with | avec HT 82



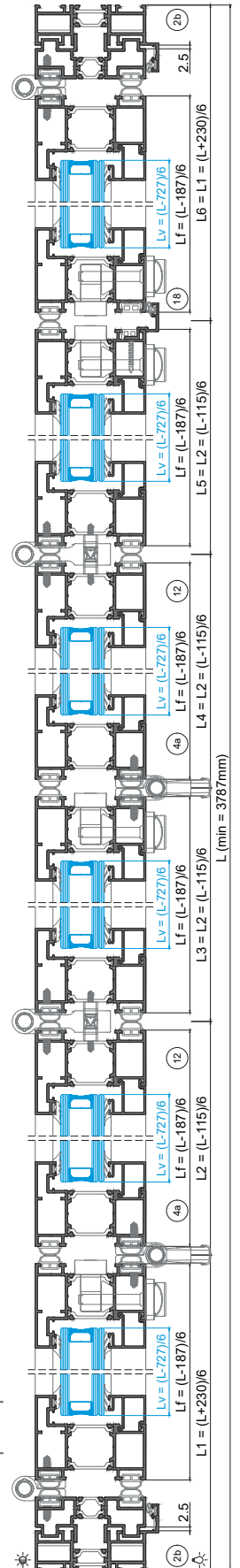
- 633 com | with | avec HT 82



- 642 com | with | avec HT 82

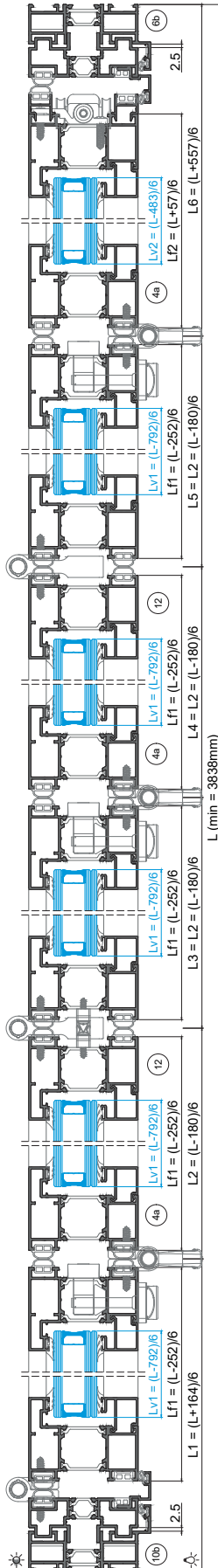


- 651 com | with | avec HT 82

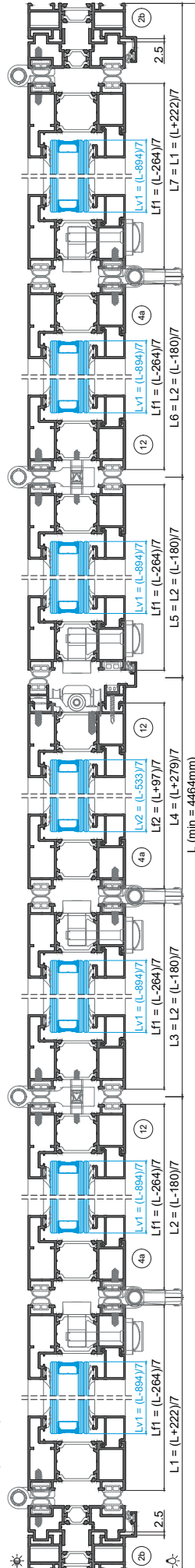


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR
DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR

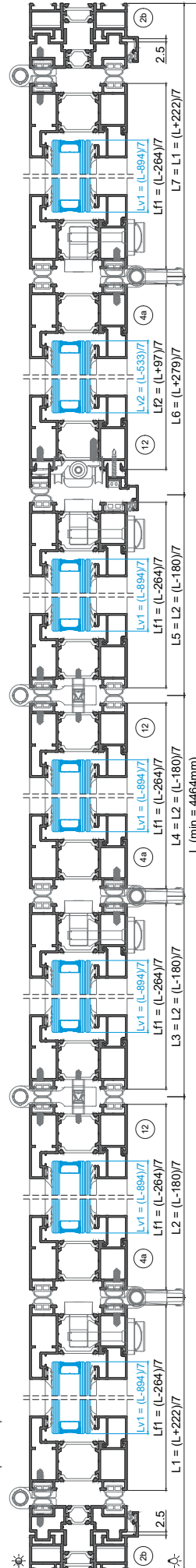
- 660 com | with | avec HT 82



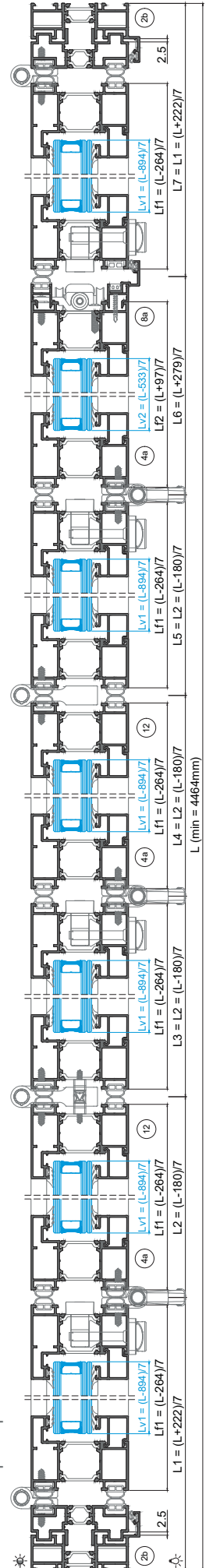
- 743 com | with | avec HT 82



- 752 com | with | avec HT 82

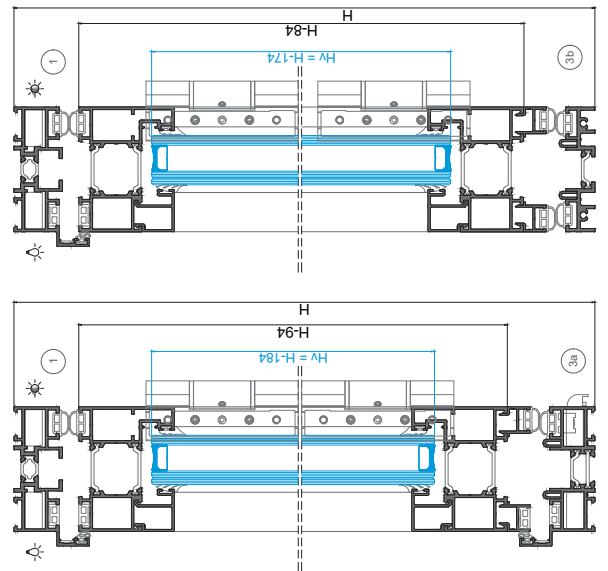
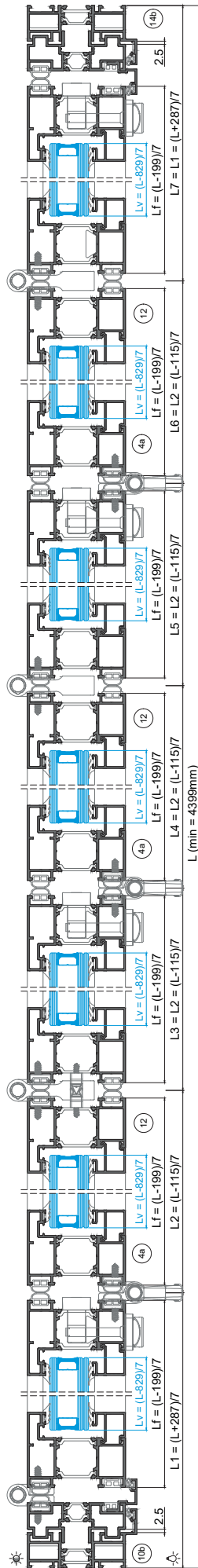


- 761 com | with | avec HT 82



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR
DETAILS ACCORDING TO TYPOLOGIES - OUTWARD OPENING
DÉTAILS SELON LES TYPOLOGIES - OUVERTURE VERS L'EXTÉRIEUR

- 770 com | with | avec HT 82



MEDIDAS DE CORTE PARA FOLHAS E VIDROS
SASHES AND GLASSES CUTTING MEASURES
MESURES DE COUPE POUR VENTaux ET VERRES

Sem perfis laterais de ajuste				
Without adjustable lateral profiled Sans profils latéraux réglable				
Tipologia	L min	Qt	Lf	Lv
220	1357mm	1	Lf1 = (L-157)/2	Lv1 = (L-338)/2
		1	Lf2 = (L-55)/2	Lv2 = (L-234)/2

Com perfis laterais de ajuste				
With adjustable lateral profiled Avec profils latéraux réglable				
Tipologia	L min	Qt	Lf	Lv
220	1404mm	1	Lf1 = (L-204)/2	Lv1 = (L-384)/2
		1	Lf2 = (L-101)/2	Lv2 = (L-281)/2
321	2016mm	2	Lf1 = (L-216)/3	Lv1 = (L-486)/3
		1	Lf2 = (L-61)/3	Lv2 = (L-331)/3
330	1951mm	3	Lf = (L-151)/3	Lv = (L-420)/3
		2	Lf1 = (L-294)/4	Lv1 = (L-654)/4
422	2693mm	2	Lf2 = (L-88)/4	Lv2 = (L-448)/4
		4	Lf = (L-163)/4	Lv = (L-523)/4
440	2628mm	3	Lf1 = (L-228)/4	Lv1 = (L-588)/4
		1	Lf2 = (L-23)/4	Lv2 = (L-382)/4
532	3240mm	4	Lf1 = (L-240)/5	Lv1 = (L-690)/5
		1	Lf2 = (L+18)/5	Lv2 = (L-432)/5
541	3240mm	4	Lf1 = (L-240)/5	Lv1 = (L-690)/5
		1	Lf2 = (L+18)/5	Lv2 = (L-432)/5
550	3175mm	5	Lf = (L-175)/5	Lv = (L-625)/5
		6	Lf = (L-187)/6	Lv = (L-727)/6
642	3917mm	4	Lf1 = (L-318)/6	Lv1 = (L-858)/6
		2	Lf2 = (L-8)/6	Lv2 = (L-548)/6
651	3787mm	6	Lf = (L-187)/6	Lv = (L-727)/6
		5	Lf1 = (L-252)/6	Lv1 = (L-792)/6
660	3838mm	1	Lf2 = (L+57)/6	Lv2 = (L-483)/6
		6	Lf1 = (L-264)/7	Lv1 = (L-894)/7
743	4464mm	1	Lf2 = (L+97)/7	Lv2 = (L-533)/7
		6	Lf1 = (L-264)/7	Lv1 = (L-894)/7
752	4464mm	1	Lf2 = (L+97)/7	Lv2 = (L-533)/7
		6	Lf1 = (L-264)/7	Lv1 = (L-894)/7
761	4464mm	1	Lf2 = (L+97)/7	Lv2 = (L-533)/7
		7	Lf = (L-199)/7	Lv = (L-829)/7

MEDIDAS PARA COLOCAÇÃO NO PROGRAMA DE ORÇAMENTAÇÃO
MEASURES FOR PLACEMENT IN THE BUDGETING PROGRAM
MESURES DE PLACEMENT DANS LE PROGRAMME BUDGÉTAIRE

Sem perfis laterais de ajuste						
Without adjustable lateral profiled Sans profils latéraux réglable						
Tipologia	L1	L2	L3	L4	L5	L6
220	(L-66)/2	(L+66)/2				

Com perfis laterais de ajuste						
With adjustable lateral profiled Avec profils latéraux réglable						
Tipologia	L1	L2	L3	L4	L5	L6
220	(L-66)/2	(L+66)/2				
321	(L-8)/3	(L+17)/3	L1			
330	(L+57)/3	(L-114)/3	L1			
422	(L-16)/4	(L+16)/4	L2	L1		
431	(L+115)/4	(L-115)/4	L2	L1	-	
440	(L+50)/4	(L-180)/4	L2	(L+312)/4		
532	(L+107)/5	(L-180)/5	L2	(L+148)/5	L1	
541	(L+107)/5	(L-180)/5	L2	(L+148)/5	L1	
550	(L+172)/5	(L-115)/5	L2	L2	L1	
633	(L+230)/6	(L-115)/6	L2	L2	L2	L1
642	(L+98)/6	(L-246)/6	L2	(L+148)/6	L4	L1
651	(L+230)/6	(L-115)/6	L2	L2	L2	L1
660	(L+164)/6	(L-180)/6	L2	L2	L2	(L+557)/6
743	(L+222)/7	(L-180)/7	L2	(L+279)/7	L2	L2
752	(L+222)/7	(L-180)/7	L2	L2	L2	(L+279)/7
761	(L+222)/7	(L-180)/7	L2	L2	L2	(L+279)/7
770	(L+287)/7	(L-115)/7	L2	L2	L2	L2

Considerar os valores de L com 1 casa decimal, para introdução no programa de orçamentação
Consider the values of L with 1 decimal place, for introduction in the budgeting program
Considérer les valeurs de L avec 1 décimale, à introduire dans le programme budgétaire.

MAPA DE QUANTIDADE DE PERFIS - ABERTURAS INTERIOR E EXTERIOR

PROFILES QUANTITY MAPS - INWARD AND OUTWARD OPENING

CARTES DE QUANTITÉS DES PROFILÉS - OUVERTURES VERS L'INTÉRIEUR ET L'EXTÉRIEUR

• 220

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-204)/2 (L-101)/2	H-94	2 2 + 4	
 HT 11	BITE BEADS PARCLOSE	(L-360)/2 (L-257)/2	H-212	2 + 4	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-232)/2 (L-101)/2	H-101	2 + 2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	2	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-204)/2 (L-101)/2	H-84	2 2 + 4	
 HT 11	BITE BEADS PARCLOSE	(L-360)/2 (L-257)/2	H-202	2 + 4	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-232)/2 (L-101)/2	H-91	2 + 2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	2	

• 321

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-216)/3 (L-62)/3	H-94	4 + 6	
 HT 11	BITE BEADS PARCLOSE	(L-450)/3 (L-295)/3	H-212	4 + 6	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-258)/3 (L-61)/3	H-101	4 + 2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-216)/3 (L-62)/3	H-84	4 + 6	
 HT 11	BITE BEADS PARCLOSE	(L-450)/3 (L-295)/3	H-202	4 + 6	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-258)/3 (L-61)/3	H-91	4 + 2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

• 330

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-151)/3	H-94	6+6	
 HT 11	BITE BEADS PARCLOSE	(L-385)/3	H-212	6+6	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-193)/3	-	6	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	2	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-151)/3	H-84	6+6	
 HT 11	BITE BEADS PARCLOSE	(L-385)/3	H-202	6+6	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-193)/3	-	6	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	2	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-294)/4 (L-88)/4	H-94	4 + 8	
 HT 11	BITE BEADS PARCLOSE	(L-606)/4 (L-400)/4	H-212	4 + 8	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-350)/4 (L-88)/4	H-101	4 + 4	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-294)/4 (L-88)/4	H-84	4 + 8	
 HT 11	BITE BEADS PARCLOSE	(L-606)/4 (L-400)/4	H-202	4 + 8	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-350)/4 (L-88)/4	H-91	4 + 4	

MAPA DE QUANTIDADE DE PERFIS - ABERTURAS INTERIOR E EXTERIOR

PROFILES QUANTITY MAPS - INWARD AND OUTWARD OPENING

CARTES DE QUANTITÉS DES PROFILÉS - OUVERTURES VERS L'INTÉRIEUR ET L'EXTÉRIEUR

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-163)/4	H-94	8 + 8	
HT 11	BITE BEADS PARCLOSE	(L-475)/4	H-212	8 + 8	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-219)/4	-	8	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-163)/4	H-84	8 + 8	
HT 11	BITE BEADS PARCLOSE	(L-475)/4	H-202	8 + 8	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-219)/4	-	8	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-228)/4 (L-23)/4	H-94	6 + 8 2 + 8	
HT 11	BITE BEADS PARCLOSE	(L-540)/4 (L-335)/4	H-212	6 + 8 2 + 8	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-284)/4 (L-23)/4	H-101	6 + 2 2 + 2	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	2	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-228)/4 (L-23)/4	H-84	6 + 8 2 + 8	
HT 11	BITE BEADS PARCLOSE	(L-540)/4 (L-335)/4	H-202	6 + 8 2 + 8	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-284)/4 (L-23)/4	H-91	6 + 2 2 + 2	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	2	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-240)/5 (L+18)/5	H-94	8 + 10 2 + 10	
HT 11	BITE BEADS PARCLOSE	(L-630)/5 (L-372)/5	H-212	8 + 10 2 + 10	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-310)/5 (L+53)/5	H-101	8 + 2 2 + 2	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-240)/5 (L+18)/5	H-84	8 + 10 2 + 10	
HT 11	BITE BEADS PARCLOSE	(L-630)/5 (L-372)/5	H-202	8 + 10 2 + 10	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-310)/5 (L+53)/5	H-91	8 + 2 2 + 2	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-240)/5 (L+18)/5	H-94	8 + 10 2 + 10	
HT 11	BITE BEADS PARCLOSE	(L-631)/5 (L-371)/5	H-212	8 + 10 2 + 10	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-310)/5 (L+18)/5	H-101	8 + 2 2 + 2	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-240)/5 (L+18)/5	H-84	8 + 10 2 + 10	
HT 11	BITE BEADS PARCLOSE	(L-631)/5 (L-371)/5	H-202	8 + 10 2 + 10	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-310)/5 (L+18)/5	H-91	8 + 2 2 + 2	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

MAPA DE QUANTIDADE DE PERFIS - ABERTURAS INTERIOR E EXTERIOR

PROFILES QUANTITY MAPS - INWARD AND OUTWARD OPENING

CARTES DE QUANTITÉS DES PROFILÉS - OUVERTURES VERS L'INTÉRIEUR ET L'EXTÉRIEUR

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-175)/5	H-94	10 + 10	
HT 11	BITE BEADS PARCLOSE	(L-565)/5	H-212	10 + 10	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-245)/5	-	10	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	2	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-175)/5	H-84	10 + 10	
HT 11	BITE BEADS PARCLOSE	(L-565)/5	H-202	10 + 10	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-245)/5	-	10	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	2	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-187)/6	H-94	12 + 12	
HT 11	BITE BEADS PARCLOSE	(L-655)/6	H-212	12 + 12	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-271)/6	-	12	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-187)/6	H-84	12 + 12	
HT 11	BITE BEADS PARCLOSE	(L-655)/6	H-202	12 + 12	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-271)/6	-	12	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-318)/6 (L-8)/6	H-94	8 4 + 12	
HT 11	BITE BEADS PARCLOSE	(L-786)/6 (L-476)/6	H-212	8 4 + 12	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-402)/6 (L-8)/6	H-97	8 4 + 4	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-318)/6 (L-8)/6	H-84	8 4 + 12	
HT 11	BITE BEADS PARCLOSE	(L-786)/6 (L-476)/6	H-202	8 4 + 12	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-402)/6 (L-8)/6	H-79	8 4 + 4	

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-187)/6	H-94	12+12	
HT 11	BITE BEADS PARCLOSE	(L-655)/6	H-212	12+12	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-271)/6	-	12	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-187)/6	H-84	12+12	
HT 11	BITE BEADS PARCLOSE	(L-655)/6	H-202	12+12	
HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-271)/6	-	12	
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

MAPA DE QUANTIDADE DE PERFIS - ABERTURAS INTERIOR E EXTERIOR

PROFILES QUANTITY MAPS - INWARD AND OUTWARD OPENING

CARTES DE QUANTITÉS DES PROFILÉS - OUVERTURES VERS L'INTÉRIEUR ET L'EXTÉRIEUR

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Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-252)/6 (L+57)/6	H-94	10 2+12	
 HT 11	BITE BEADS PARCLOSE	(L-720)/6 (L-411)/6	H-212	10 2+12	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-336)/6 (L+57)/6	H-97	10 2+2	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-252)/6 (L+57)/6	H-84	10 2+12	
 HT 11	BITE BEADS PARCLOSE	(L-720)/6 (L-411)/6	H-202	10 2+12	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-336)/6 (L+57)/6	H-79	10 2+2	

• 743

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-264)/7 (L+97)/7	H-94	12 2+14	
 HT 11	BITE BEADS PARCLOSE	(L-812)/7 (L-450)/7	H-212	12 2+14	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-362)/7 (L+97)/7	H-101	12 2+2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-264)/7 (L+97)/7	H-84	12 2+14	
 HT 11	BITE BEADS PARCLOSE	(L-812)/7 (L-450)/7	H-202	12 2+14	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-362)/7 (L+97)/7	H-91	12 2+2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

• 752

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-264)/7 (L+97)/7	H-94	12 2+14	
 HT 11	BITE BEADS PARCLOSE	(L-821)/7 (L-460)/7	H-212	12 2+14	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-373)/7 (L+97)/7	H-101	12 2+2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-264)/7 (L+97)/7	H-84	12 2+14	
 HT 11	BITE BEADS PARCLOSE	(L-821)/7 (L-460)/7	H-202	12 2+14	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-373)/7 (L+97)/7	H-91	12 2+2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

• 761

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	1+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-264)/7 (L+97)/7	H-94	12 2+14	
 HT 11	BITE BEADS PARCLOSE	(L-810)/7 (L-450)/7	H-212	12 2+14	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-361)/7 (L+97)/7	H-101	12 2+2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	1	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-264)/7 (L+97)/7	H-84	12 2+14	
 HT 11	BITE BEADS PARCLOSE	(L-810)/7 (L-450)/7	H-202	12 2+14	
 HT 25	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-361)/7 (L+97)/7	H-91	12 2+2	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	1	

MAPA DE QUANTIDADE DE PERFIS - ABERTURAS INTERIOR E EXTERIOR

PROFILES QUANTITY MAPS - INWARD AND OUTWARD OPENING

CARTES DE QUANTITÉS DES PROFILÉS - OUVERTURES VERS L'INTÉRIEUR ET L'EXTÉRIEUR

• 770

Tipologias sem soleira HT 49

Typologies without threshold HT 49 | Typologies sans seuil HT 49

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	L	H	2+2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-48	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-199)/7	H-94	14+14	
 HT 25	BITE BEADS PARCLOSE	(L-745)/7	H-212	14+14	
 HT 06	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-297)/7	-	14	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97	2	

Tipologias com soleira HT 49

Typologies with threshold HT 49 | Typologies avec seuil HT 49

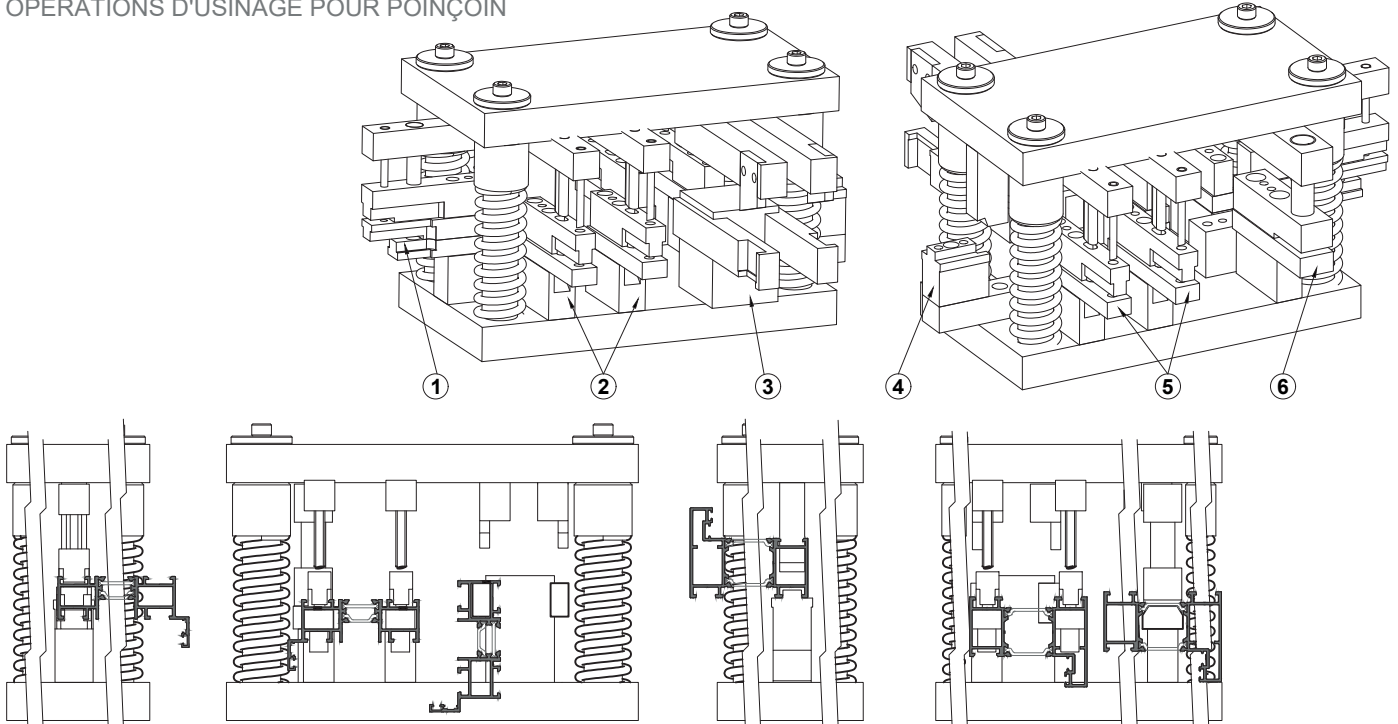
PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ. HORIZONTAL CUT COUPE HORIZ.	CORTE VERT. VERTICAL CUT COUPE VERTICALE	QUANT. QUANTITY QUANTITÉ	CORTE CUT COUPE
 HT 01	ARO FIXO FIXED FRAME CADRE DORMANT	-	H	2	
 HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
 HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
 HT 82	PERFIL LATERAL DE AJUSTE LATERAL PROF. PROF. LATERAL	-	H-44	2	
 HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	
 HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILÉ OUVRANT	(L-199)/7	H-84	14+14	
 HT 25	BITE BEADS PARCLOSE	(L-745)/7	H-202	14+14	
 HT 06	PERFIL COMPLEMENTAR COMPL. PROFILE PROFILÉ COMPL.	(L-297)/7	-	14	
 HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79	2	

V

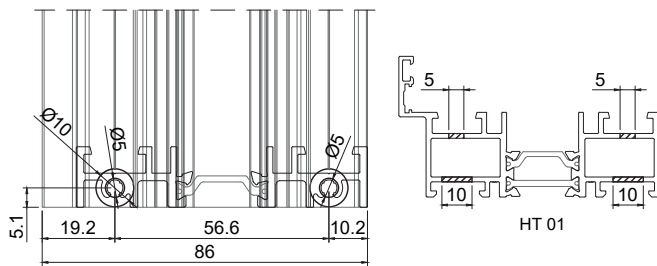
MAQUINAÇÃO DOS PERFIS PROFILES MACHINING | USINAGE DES PROFILÉS

MAQUINAÇÕES NO CORTANTE MACHINING OPERATIONS ON THE PUNCHING TOOL OPÉRATIONS D'USINAGE POUR POINÇON	V.1
MAQUINAÇÕES DOS PERFIS ARO FIXO FIXED FRAME PROFILES MACHINING USINAGE DES PROFILÉS DORMANT	V.2
DRENAGENS DRAINAGE DRAINAGES	V.3
MAQUINAÇÕES DOS PERFIS ARO MÓVEL MOBILE FRAME PROFILES MACHINING USINAGE DES PROFILÉS OUVRANT	V.4
MAQUINAÇÃO DE PERFIS PARA APLICAÇÃO DE ACESSÓRIOS PROFILES MACHINING FOR ACCESSORIES ASSEMBLY USINAGE DES PROFILÉS POUR ASSEMBLAGE DES ACCESSOIRES	V.5
MAQUINAÇÃO DE PERFIS PARA TIPOLOGIAS DE CANTO PROFILES MACHINING FOR CORNER TYPOLOGIES USINAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE	V.6

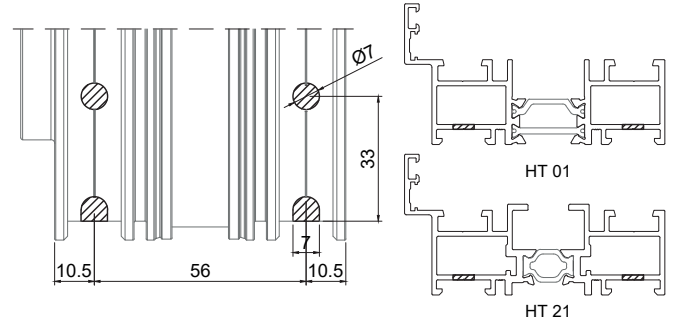
MAQUINAÇÕES NO CORTANTE
MACHINING OPERATIONS ON THE PUNCHING TOOL
OPÉRATIONS D'USINAGE POUR POINÇON



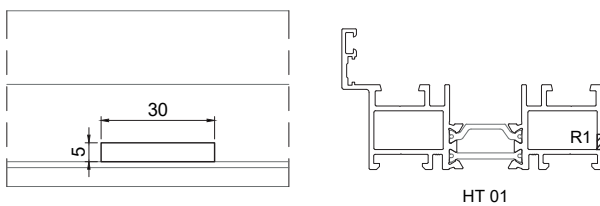
1 - Furação de ombreiras (corte a 90°)
Jambs drilling (90° cut) | Perçage de jambages (coupe à 90°)



2 - Furação para esquadros
Corner cleat drilling | Perçage pour équerres

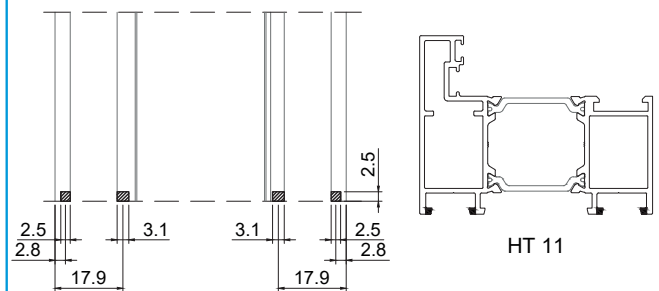


3 - Saída de águas
Water drainage | Sortie des eaux

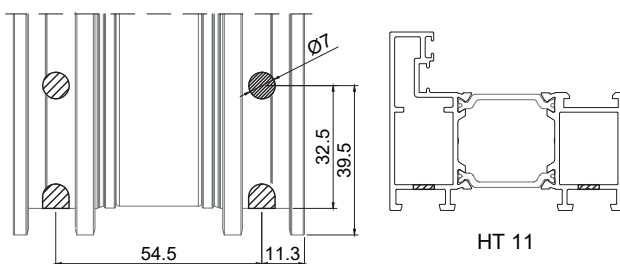


Rasgo | Hole | Rainure R1: 30x5mm

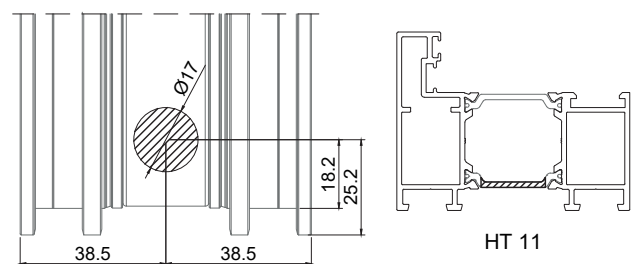
4 - Maquinação para corte de cantos
Milling for corners cut | Usinage pour coupe des angles



5 - Furação para esquadros
Corner cleat drilling | Perçage pour équerres

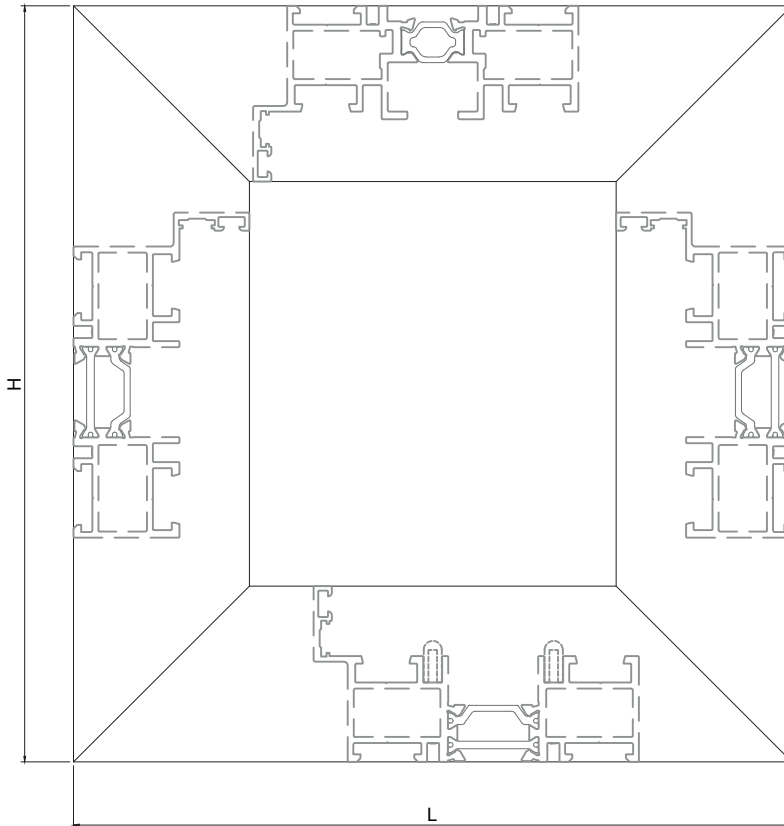


6 - Furação para varões
Rods drilling | Perçage pour tiges



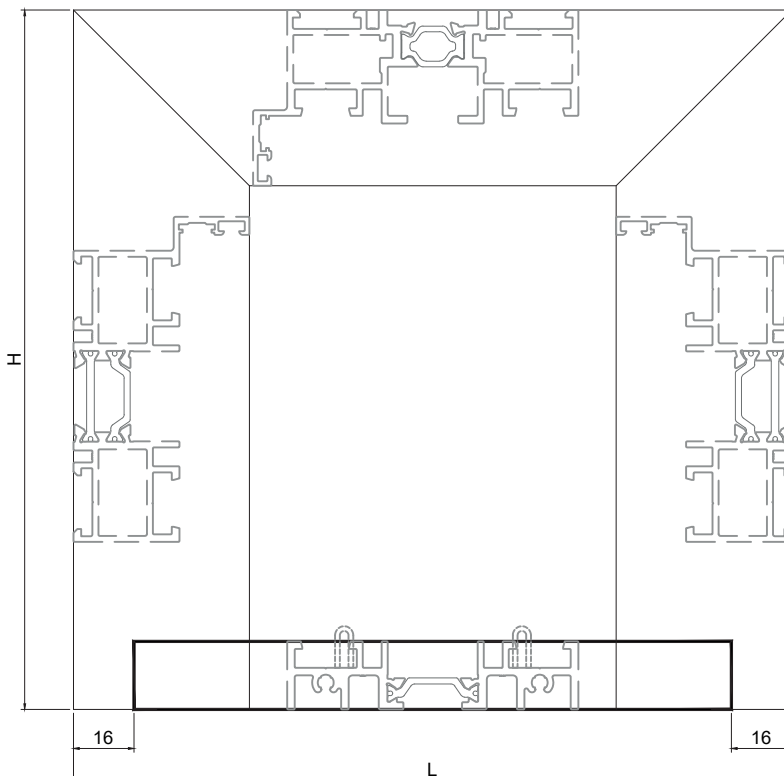
MAQUINAÇÕES DOS PERFIS ARO FIXO FIXED FRAME PROFILES MACHINING USINAGE DES PROFILÉS DE CADRE DORMANT

- 1 - Medidas de corte - Aro fixo perimetral.
Cut measures - Perimeter fixed frame.
Mesures de coupe - Cadre dormant périmètre.



PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ HORIZONTAL CUT COUPE HORIZ	CORTE VERT. VERTICAL CUT COUPE VERT	QUANT. QUANTITY	CORTE CUT
HT 01	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L	-	1	
HT 21	OMBREIRAS JAMB JAMBAGE	-	H	2	
HT 21	PADIEIRA JAMB JAMBAGE	L	-	1	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	

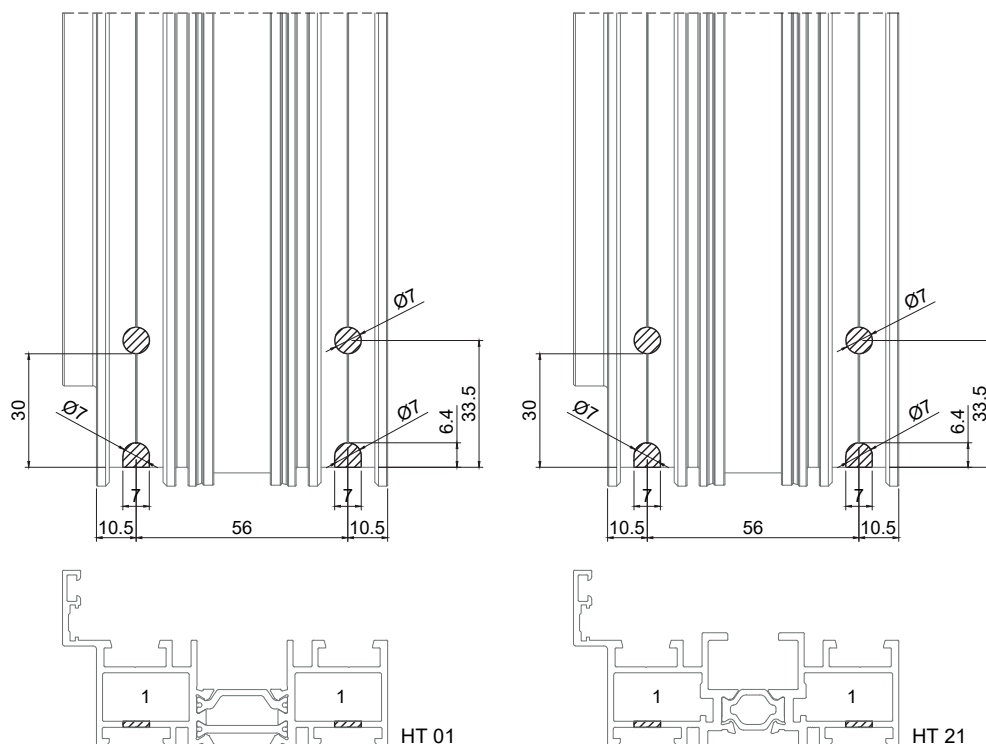
- 2 - Medidas de corte - Aro fixo com soleira inferior.
Cut measures - Fixed frame with bottom sill.
Mesures de coupe - Cadre dormant avec seuil inférieur.



PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ HORIZONTAL CUT COUPE HORIZ	CORTE VERT. VERTICAL CUT COUPE VERT	QUANT. QUANTITY	CORTE CUT
HT 01	OMBREIRAS JAMB JAMBAGE	-	H	2	
HT 21	PADIEIRA LINTEL LINTEAU	L	-	1	
HT 49	SOLEIRA SILL PROFILE PROFILÉ SEUIL	L-32	-	1	
HT 801	GUIA INOX GUIDE GUIDE	L-42	-	2	

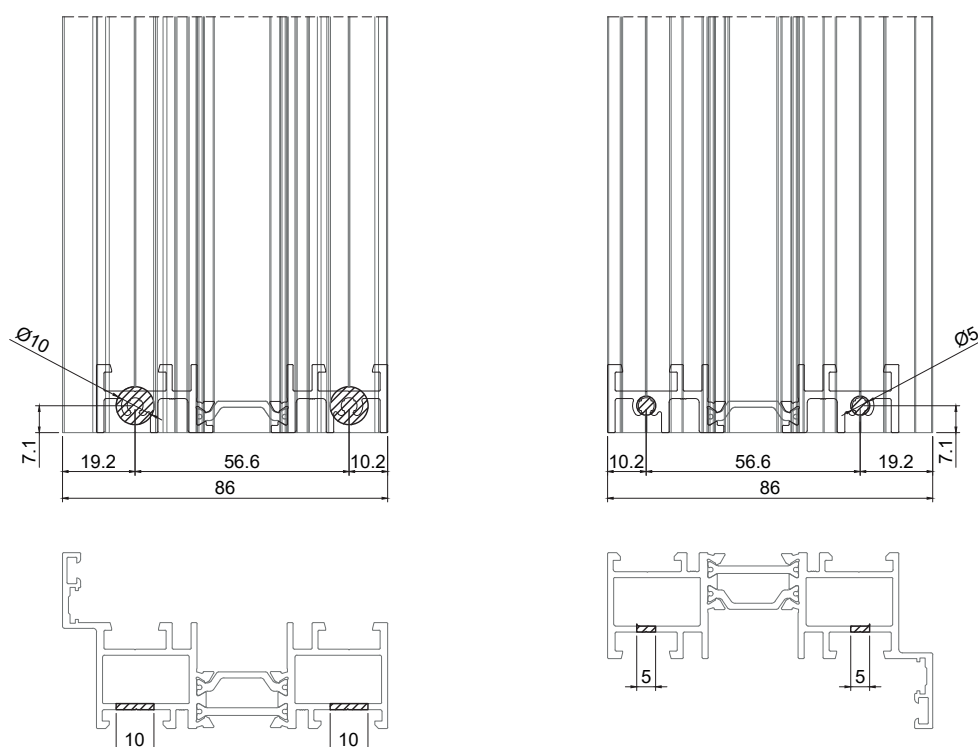
MAQUINAÇÕES DOS PERFIS ARO FIXO FIXED FRAME PROFILES MACHINING USINAGE DES PROFILÉS DE CADRE DORMANT

3 - Maquinação de perfis aro fixo para aplicação de esquadros. Fixed frame profiles machining for corner cleat application. Usinage des profilés de cadre dormant pour l'application de équerres.



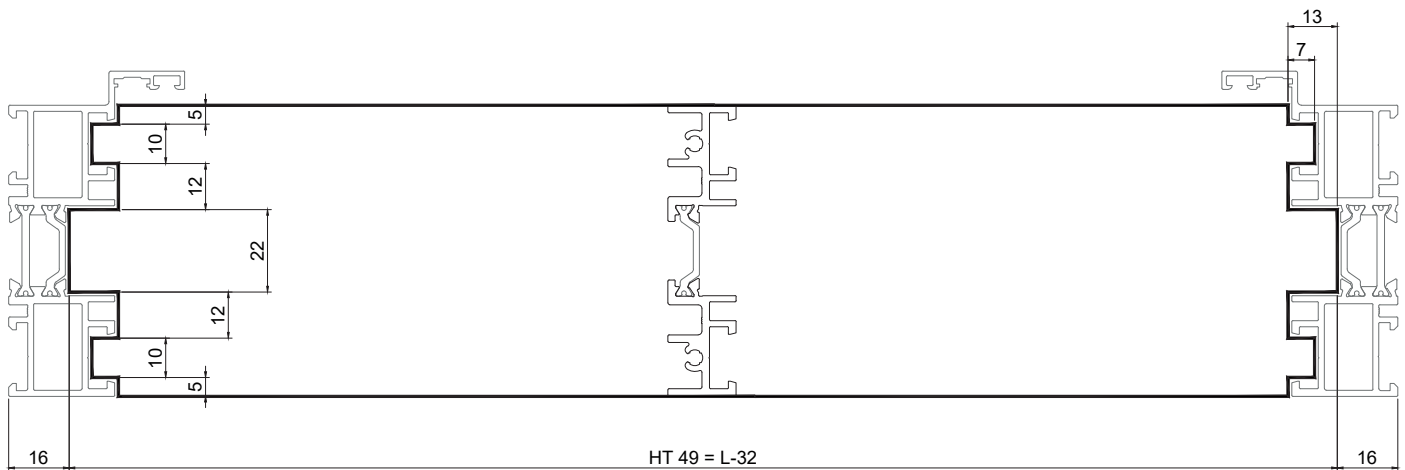
1 - ESQUADRO | BLOCKING BRACKET | EQUÉRRE HT N°1

4 - Maquinação de perfis aro fixo para aplicação de soleira HT 49. Fixed frame profiles machining for HT 49 sill. Usinage des profilés de cadre dormant pour l'application de seuil HT 49.



MAQUINAÇÕES DOS PERFIS ARO FIXO
FIXED FRAME PROFILES MACHINING
USINAGE DES PROFILÉS DE CADRE DORMANT

- 5 - Maquinação do perfil soleira HT 49.
HT 49 sill profile machining.
Usinage du profilé de seuil HT 49.

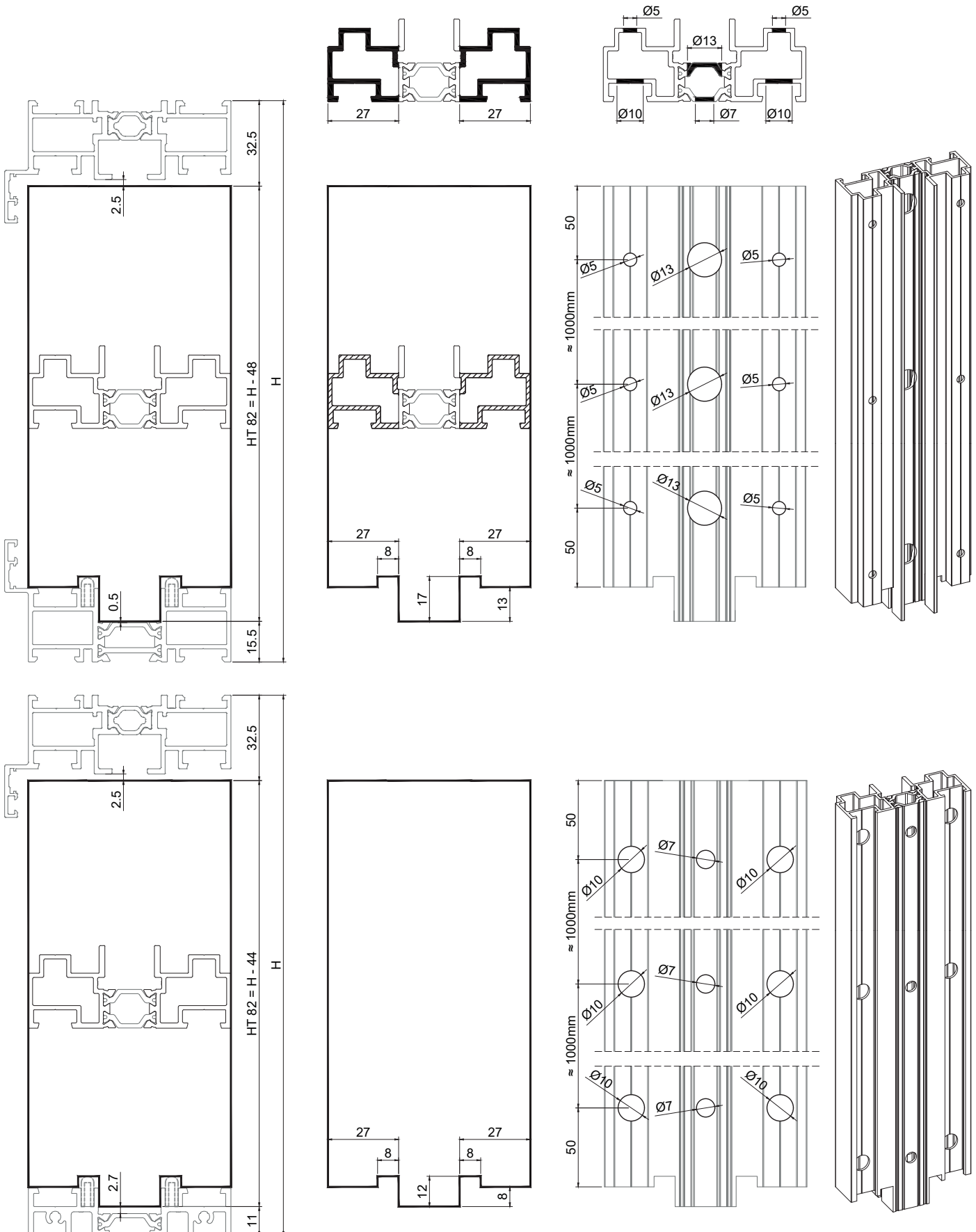


MAQUINAÇÕES DOS PERFIS ARO FIXO
FIXED FRAME PROFILES MACHINING
USINAGE DES PROFILÉS DE CADRE DORMANT

6 - Maquinação do perfil lateral de ajuste HT 82.

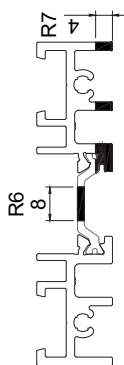
HT 82 adjustable jamb profile machining.

Usinage du profilé de jambage réglable HT 82.

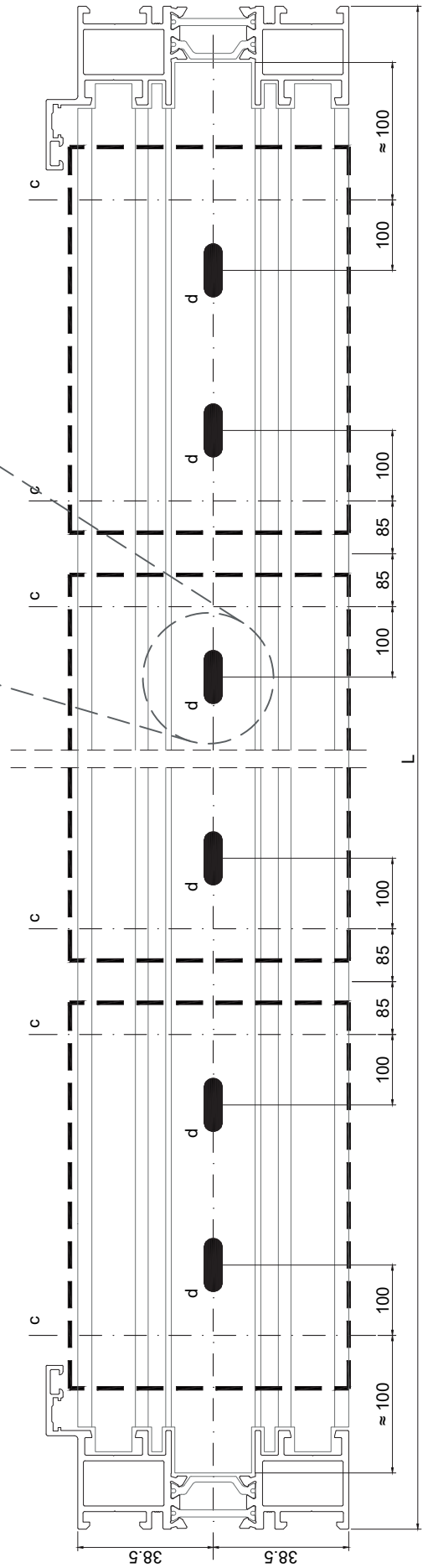
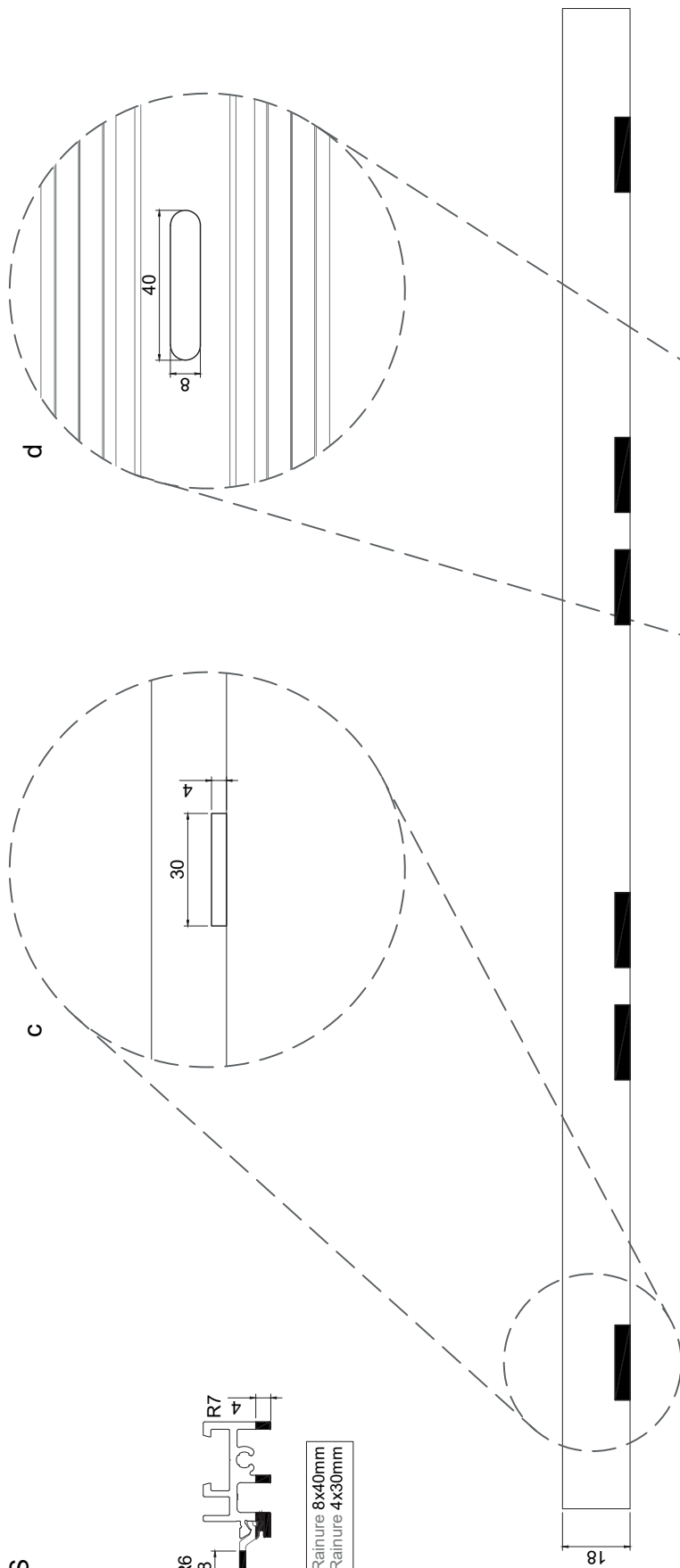




DRENAGENS
DRAINAGE
DRAINAGES



R6: Rasgo | Cut | Rainure 8x40mm
R7: Rasgo | Cut | Rainure 4x30mm



MAQUINAÇÕES DOS PERFIS ARO MÓVEL

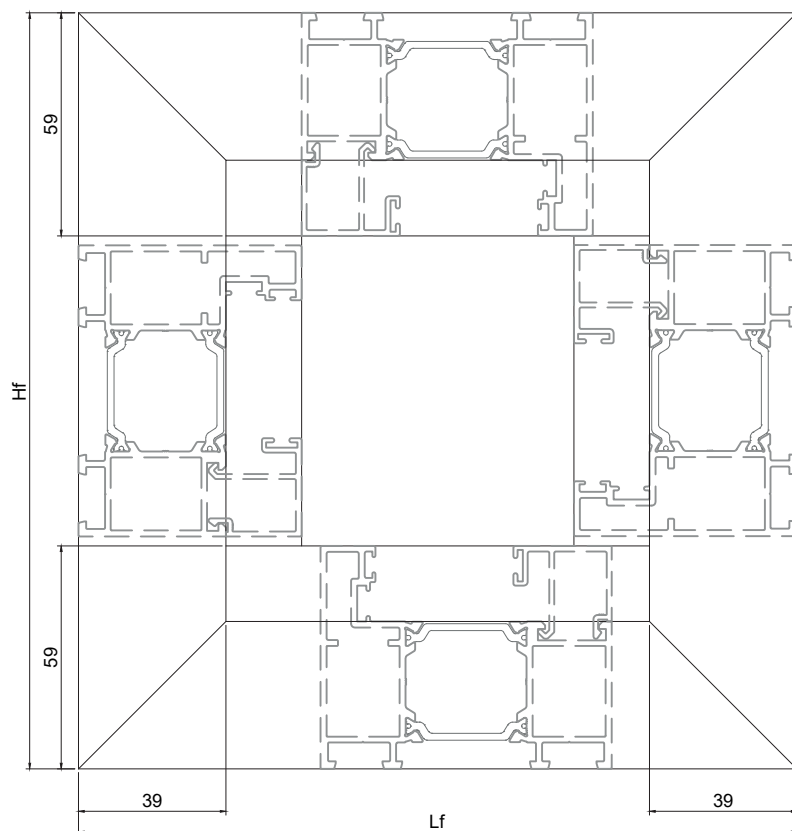
MOBILE FRAME PROFILES MACHINING

USINAGE DES PROFILÉS DE CADRE OUVRANT

1 - Medidas de corte - Aro móvel.

Cut measures - Mobile frame.

Mesures de coupe - Cadre ouvrant.



PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ HORIZONTAL CUT	CORTE VERT. VERTICAL CUT	QUANT. QUANTITY	CORTE CUT
HT 11	PERFIL MÓVEL MOBILE PROFILE PROFILE OUVRANT	Lf	-	2	
		-	Hf	8	
	BITE BEADS PARCLOSE	Lf-78	Hf-118	2+2	

2 - Maquinação de perfis aro móvel.

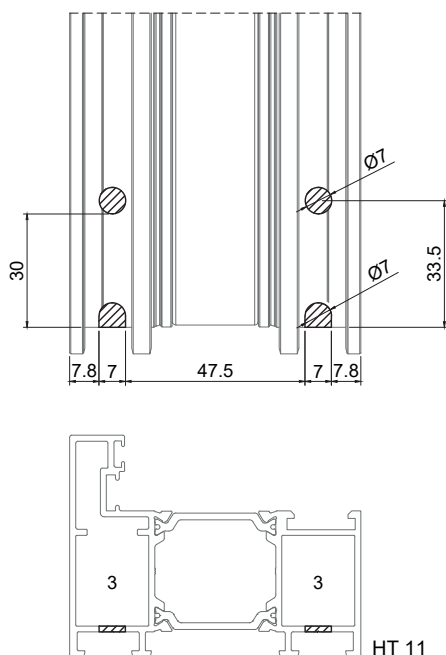
Mobile frame profiles machining.

Usinage des profilés cadre ouvrant.

2.1- Para aplicação de esquadros.

For corner cleat application.

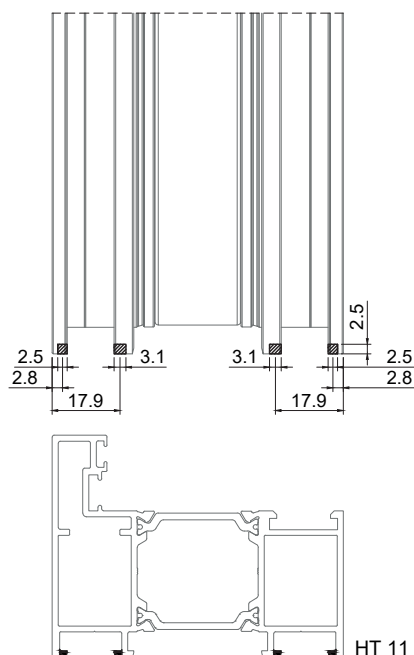
Pour l'application de équerres.



2.2- Para aplicação de acessórios.

For accessories application.

Pour l'application des accessoires.



3 - ESQUADRO | BLOCKING BRACKET | ÉQUÉRRE HT Nº2

MAQUINAÇÕES DOS PERFIS ARO MÓVEL

MOBILE FRAME PROFILES MACHINING

USINAGE DES PROFILÉS DE CADRE OUVRANT

3 - Medidas de corte do perfil horizontal HT 25.

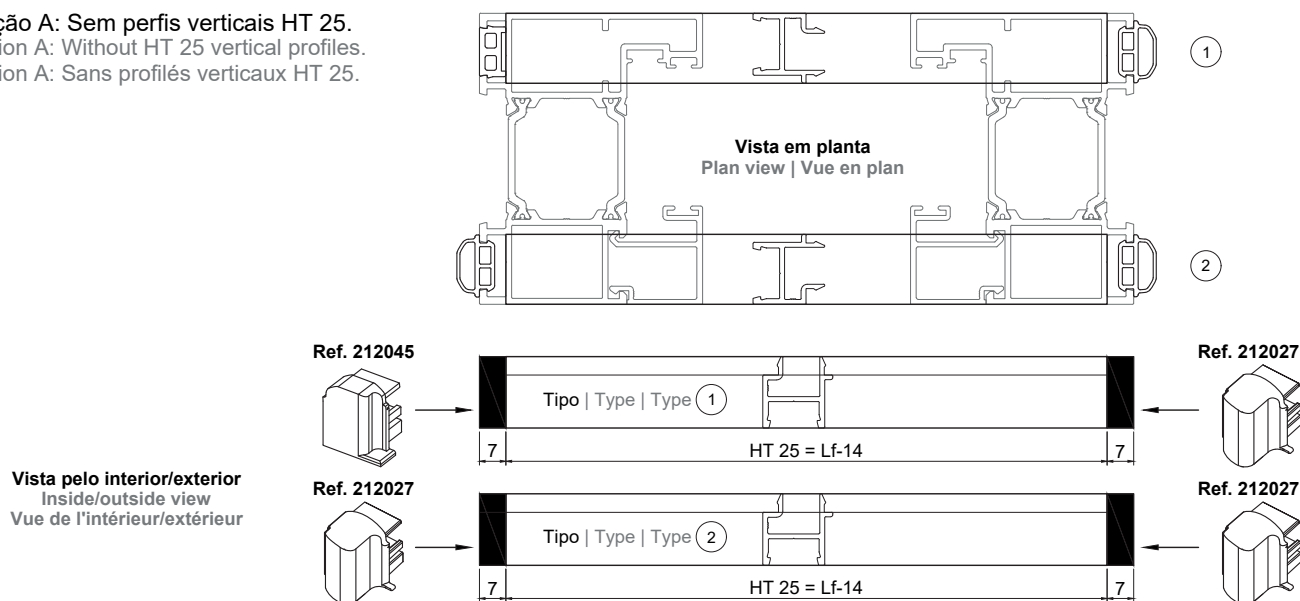
HT 25 horizontal profile cut measures.

Mesures de coupe du profilé horizontale HT 25.

3.1- Opção A: Sem perfis verticais HT 25.

Option A: Without HT 25 vertical profiles.

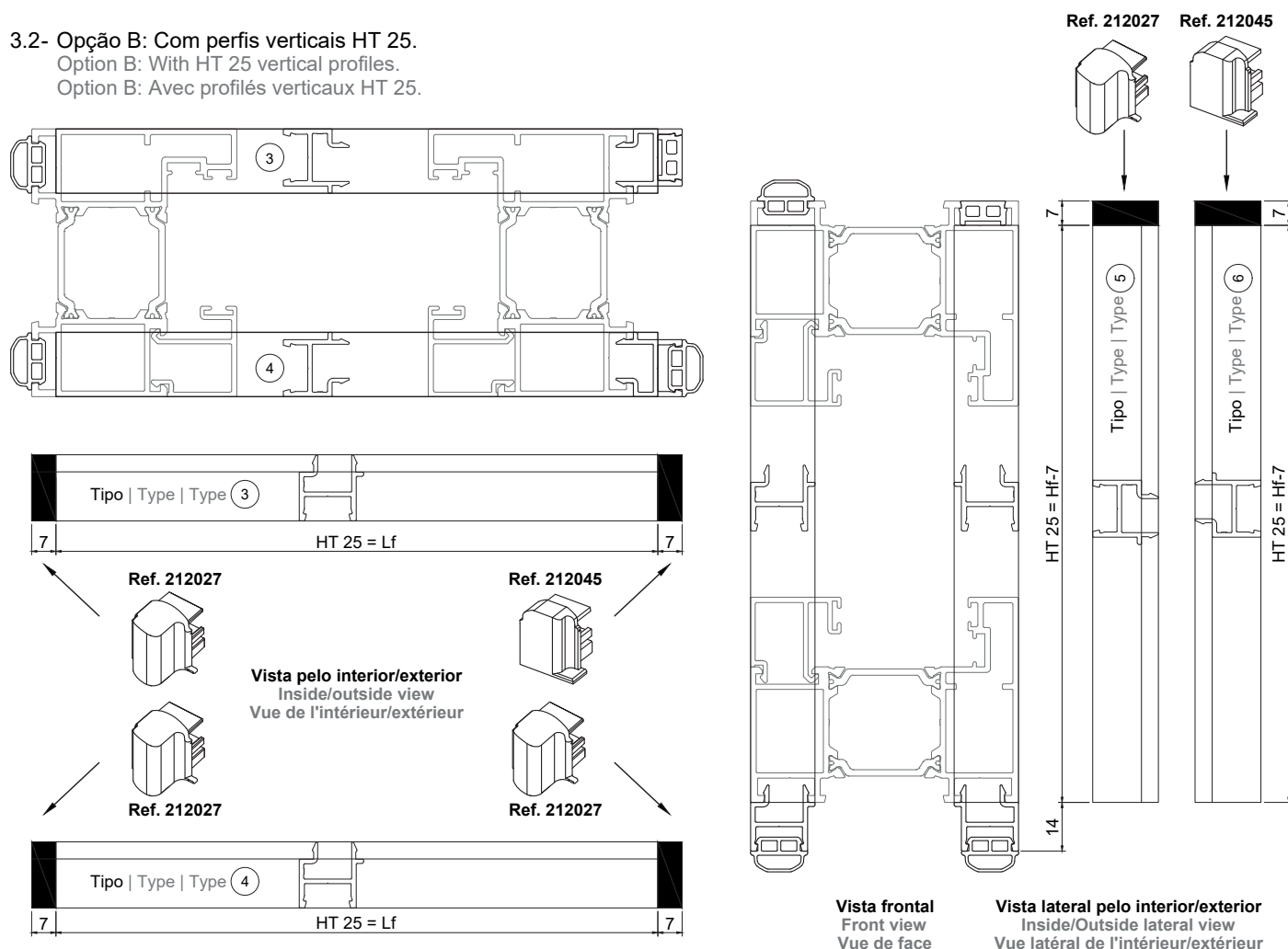
Option A: Sans profilés verticaux HT 25.



3.2- Opção B: Com perfis verticais HT 25.

Option B: With HT 25 vertical profiles.

Option B: Avec profilés verticaux HT 25.



IMPORTANTE | IMPORTANT | IMPORTANT:

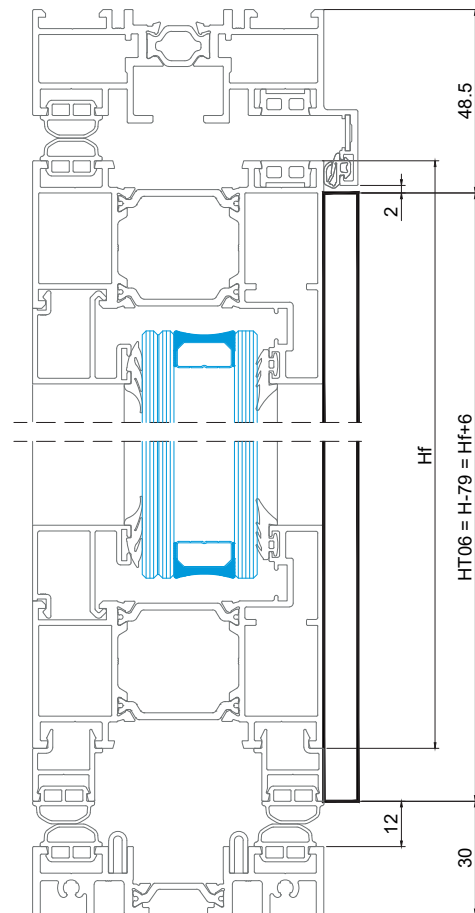
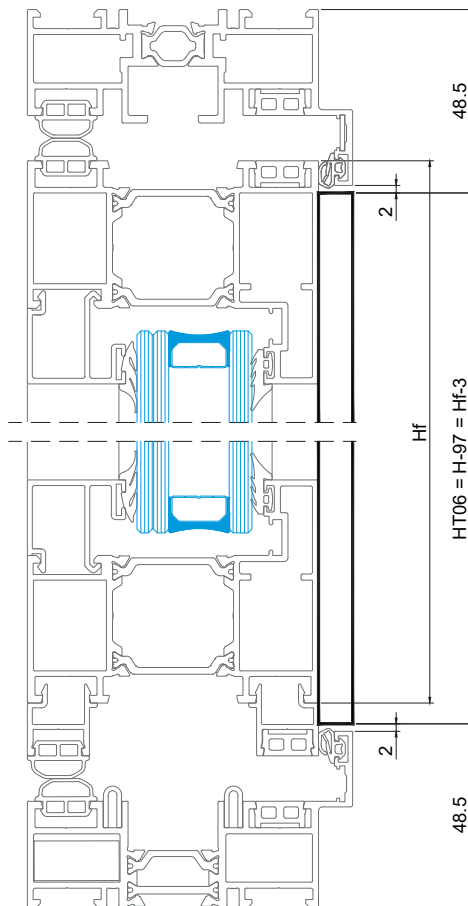
Consultar informação da secção "Maquinação do perfil complementar inferior HT 25 para aplicação de dobradiças".

Consult information in the section "HT 25 bottom complementary profile machining for hinges application".

Consulter les informations au chapitre "Usinage du profilé complémentaire inférieure HT 25 pour l'application des paumelles."

MAQUINAÇÕES DOS PERFIS ARO MÓVEL
MOBILE FRAME PROFILES MACHINING
USINAGE DES PROFILÉS DE CADRE OUVRANT

4 - Medidas de corte HT 06.
HT 06 cut measures.
Mesures de coupe HT 06.

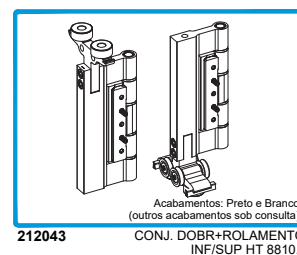


PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ HORIZONTAL CUT COUPES VERTICALES	CORTE VERT. VERTICAL CUT COUPES VERTICALES	QUANT. QUANTITY	CORTE CUT
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-97 = Hf-3	1	

PERFIS PROFILES PROFILÉS					
CÓDIGO CODE CODE	DESIGNAÇÃO DESIGNATION NOMINATION	CORTE HORIZ HORIZONTAL CUT COUPES VERTICALES	CORTE VERT. VERTICAL CUT COUPES VERTICALES	QUANT. QUANTITY	CORTE CUT
HT 06	PERFIL BATENTE CASEMENT PROF. PROF. BATTANT	-	H-79 = Hf+6	2	

MAQUINAÇÃO DE PERFIS PARA APLICAÇÃO DE ACESSÓRIOS PROFILES MACHINING FOR ACCESSORIES ASSEMBLY USINAGE DES PROFILÉS POUR ASSEMBLAGE DES ACCESSOIRES

1 - Maquinação da padieira HT 21 para aplicação das guias superiores.
HT 21 jamb profile machining for upper guides application.
Usinage de la jambage HT 21 pour l'application des guides supérieures.

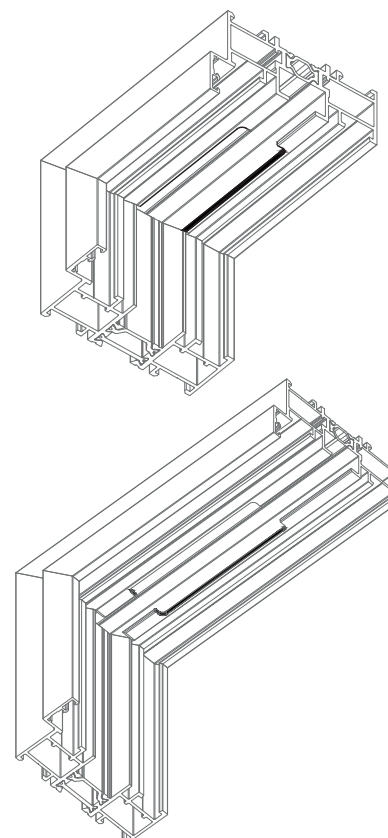
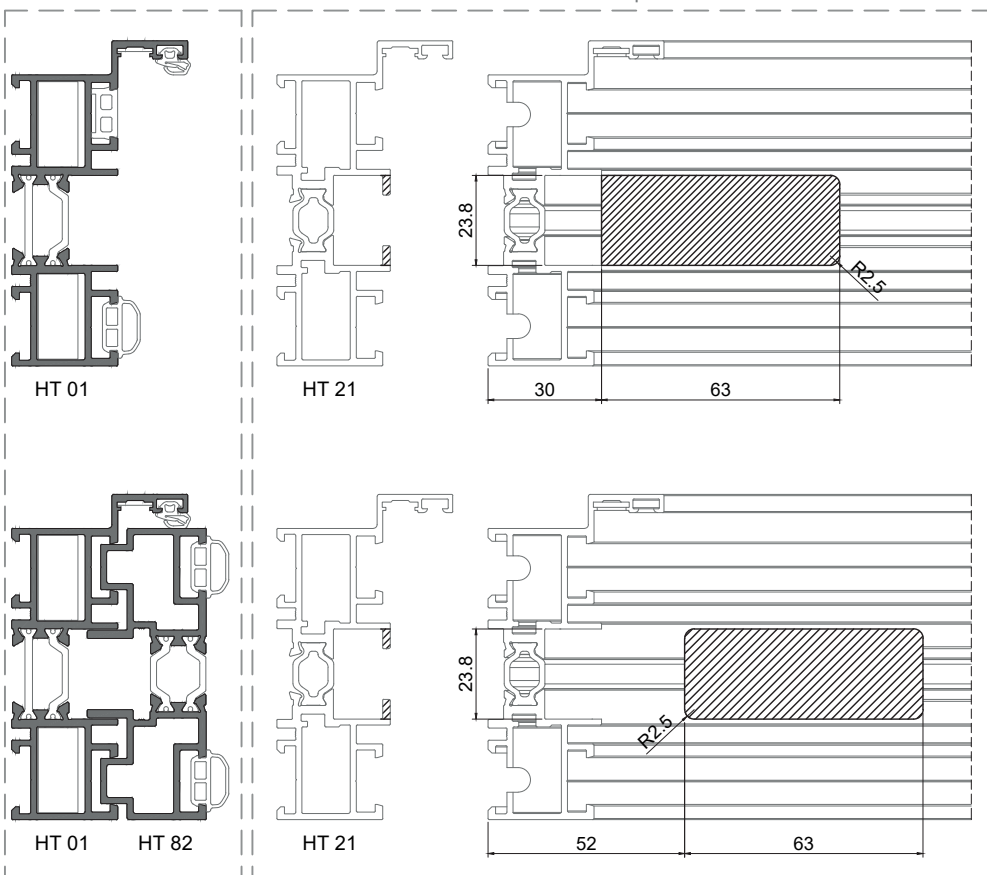


212043

CONJ. DOBR+ROLAMENTO
INF/SUP HT 8810.1

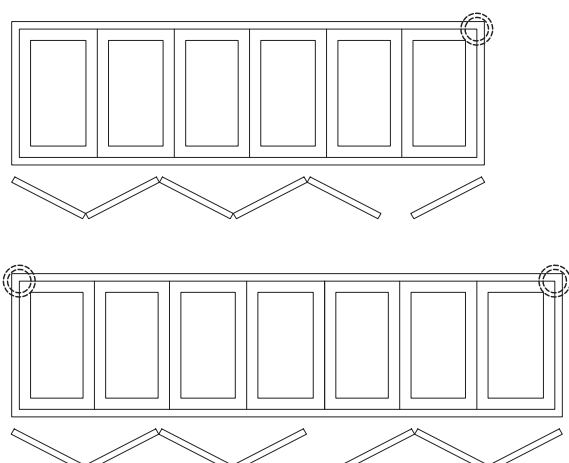
Perfis laterais
Lateral profiles
Profils lateraux

Perfil superior
Top profile
Profilé supérieur

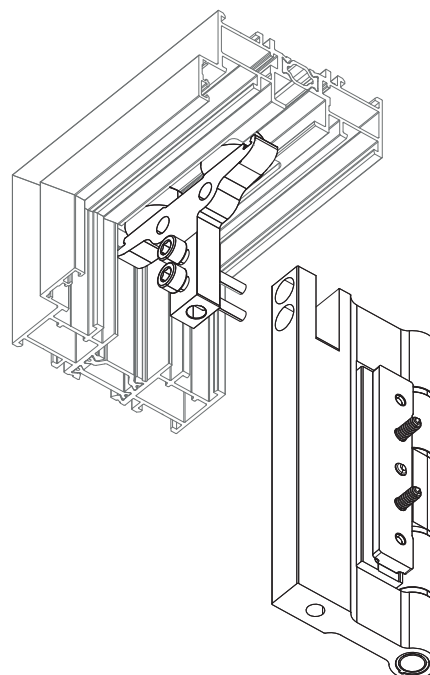


Esta maquinação serve para o caso de ser necessário substituir o acessório superior e deverá ser feita no extremo oposto à abertura das folhas (ver exemplos abaixo).
This machining is used in case it's necessary to replace the upper accessory and should be done at the end opposite the opening of the leaves (see examples below).
Cet usinage est utilisé dans le cas où il est nécessaire de remplacer l'accessoire supérieur et doit être fait à l'extrémité opposée à l'ouverture des vantaux (voir exemples ci-dessous).

Exemplos | Examples | Exemples:



2 possibilidades
2 possibilities
2 possibilités

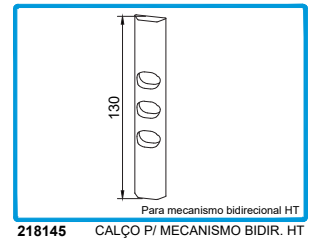
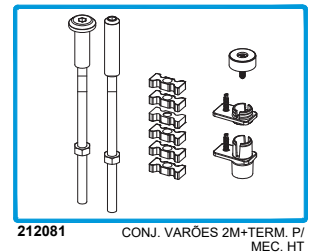
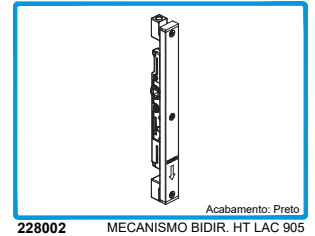
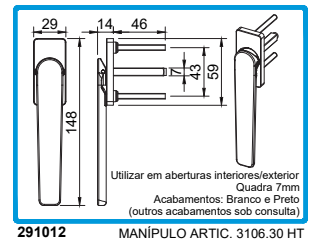
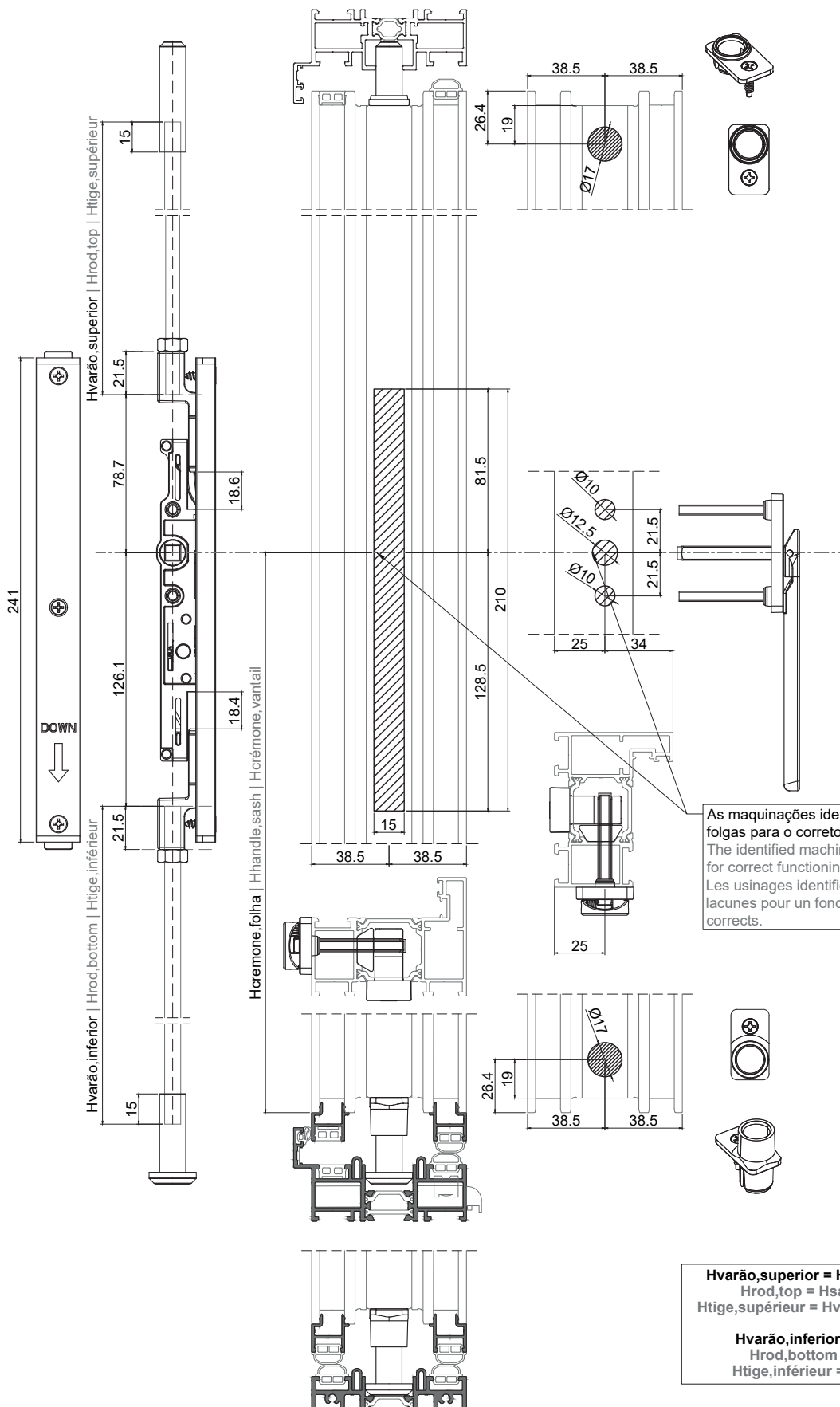


MAQUINAÇÃO DE PERFIS PARA APLICAÇÃO DE ACESSÓRIOS
PROFILES MACHINING FOR ACCESSORIES ASSEMBLY
USINAGE DES PROFILÉS POUR ASSEMBLAGE DES ACCESSOIRES

2 - Maquinação para mecanismo e manípulo - aberturas interior e exterior.

Mechanism and handle machining - **inwards and outwards opening.**

Usinage pour mécanisme et poignée - **ouverture vers l'intérieur et extérieure.**



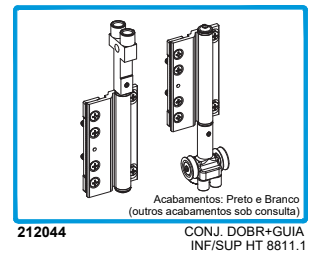
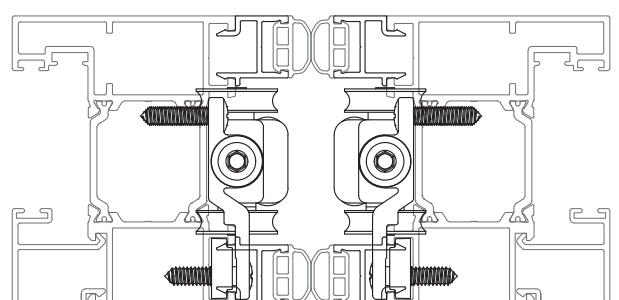
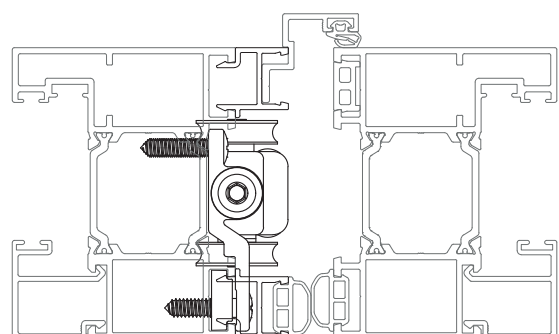
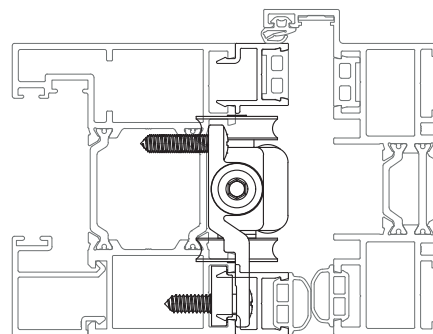
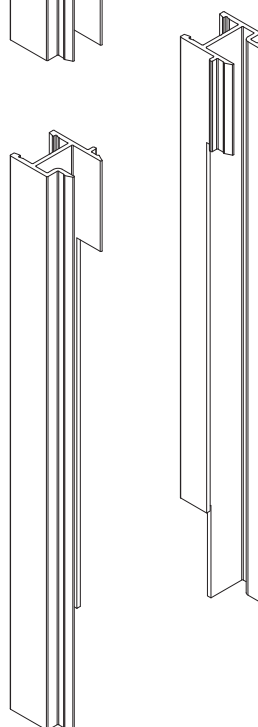
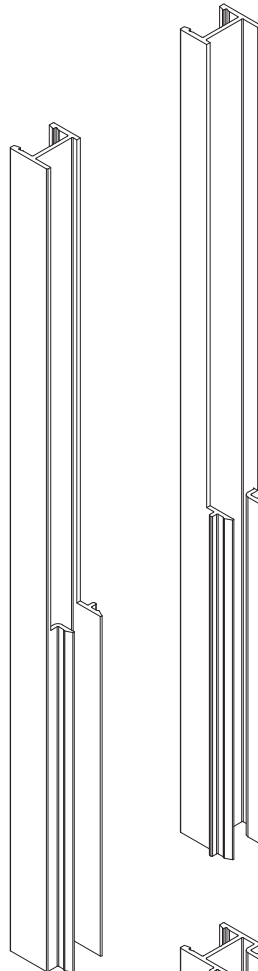
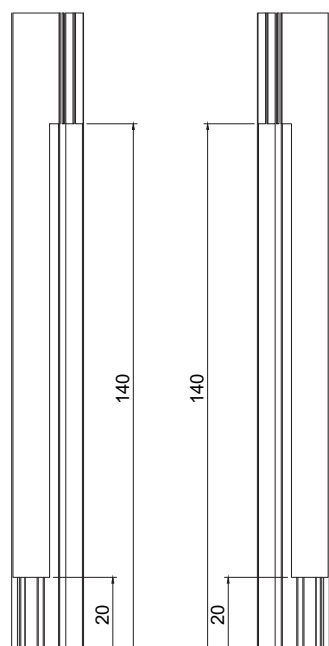
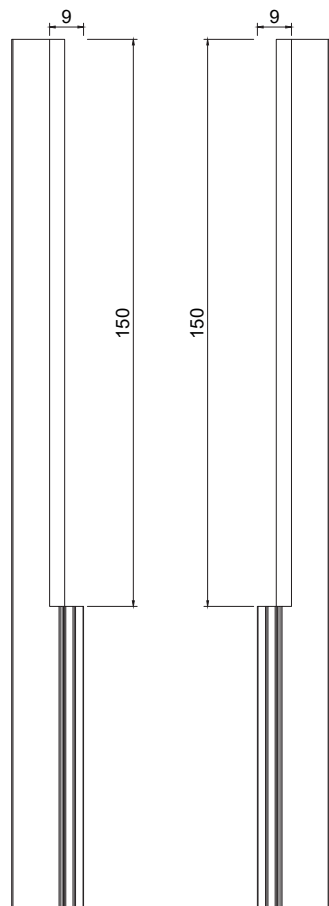
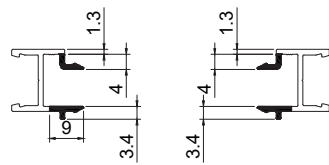
As maquinações identificadas devem ficar sem folgas para o correto funcionamento e estética.
The identified machinations must be free of gaps for correct functioning and aesthetics.
Les usinages identifiées doivent être exemptes de lacunes pour un fonctionnement et une esthétique corrects.

Hvarão,superior = Hfolha - Hcremone,folha - 92
Hrod,top = Hsash - Hhandle,sash - 92
Htge,supérieur = Hvantail - Hcrémone,vantail - 92

Hvarão,inferior = Hcremone,folha - 125
Hrod,bottom = Hhandle,sash - 125
Htge,inférieur = Hcrémone,vantail - 125

MAQUINAÇÃO DE PERFIS PARA APLICAÇÃO DE ACESSÓRIOS PROFILES MACHINING FOR ACCESSORIES ASSEMBLY USINAGE DES PROFILÉS POUR ASSEMBLAGE DES ACCESSOIRES

5 - Maquinação do perfil complementar HT 25 vertical para aplicação de dobradiças.
Vertical HT 25 complementary profile machining for hinges application.
Usinage du profilé complémentaire HT 25 vertical pour l'application des paumelles.

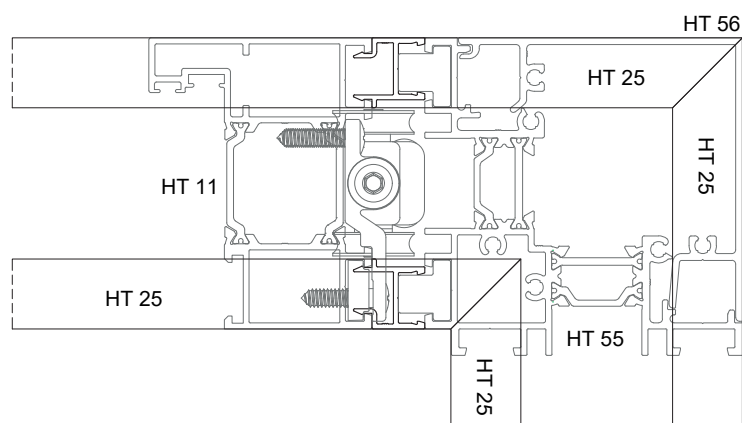
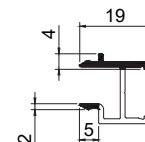
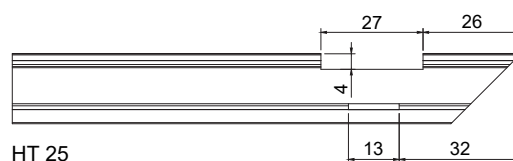
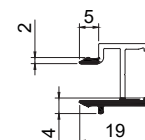
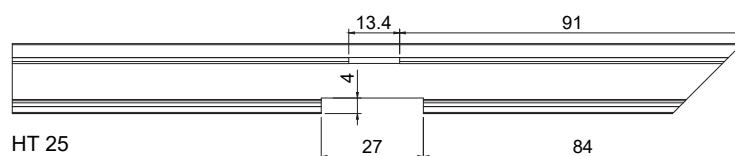
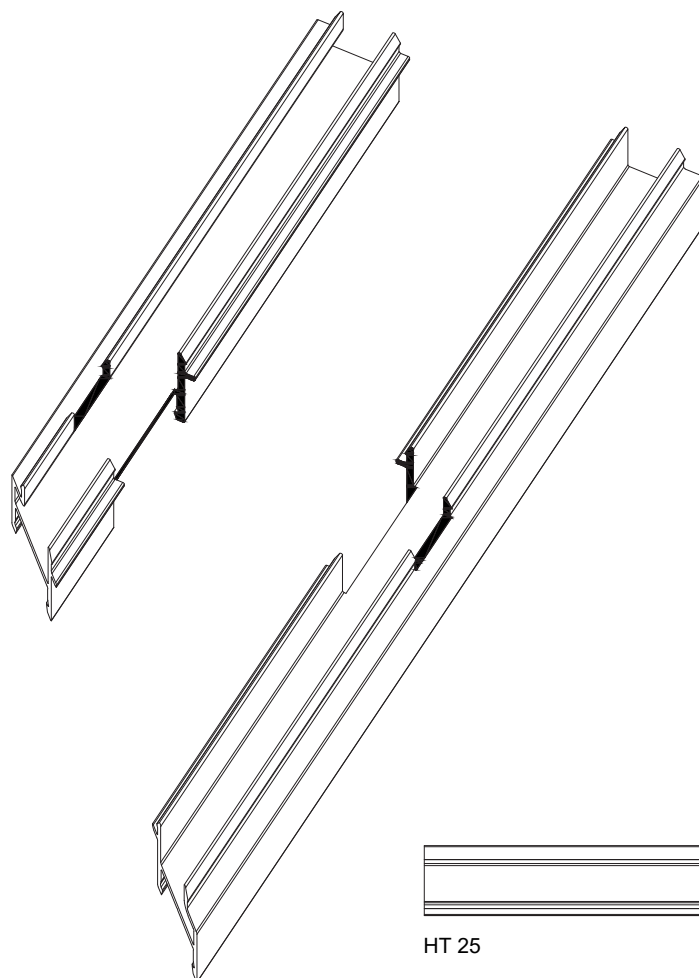
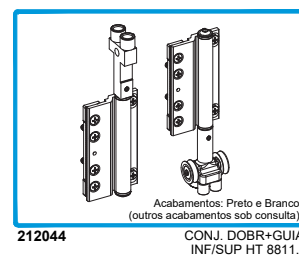


MAQUINAÇÃO DE PERFIS PARA TIPOLOGIAS DE CANTO

PROFILES MACHINING FOR CORNER TYPOLOGIES

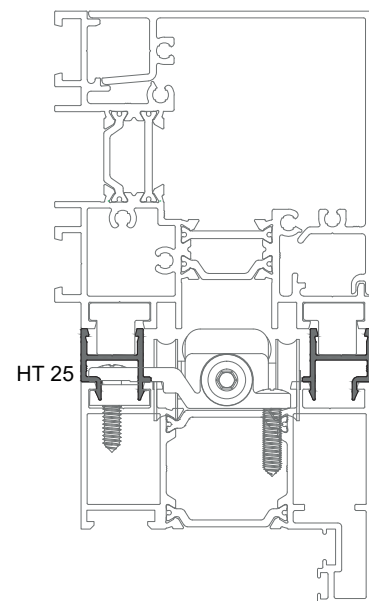
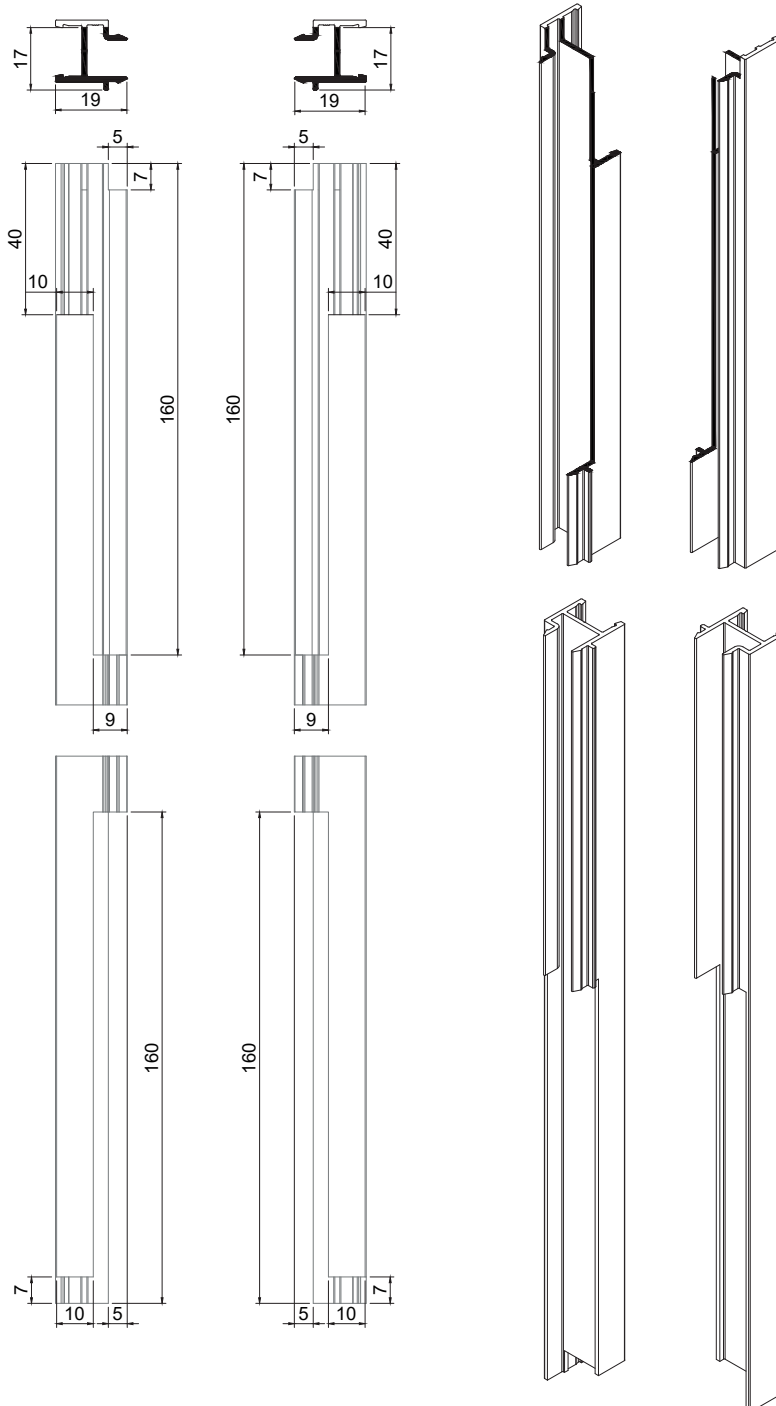
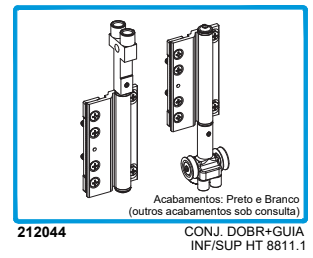
USINAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

- 1 - Maquinação do perfil complementar HT 25 horizontal para a movimentação da guia inferior.
Horizontal HT 25 complementary profile machining for moving the bottom guide.
Usinage du profilé complémentaire HT 25 horizontal pour déplacer le guide inférieur.



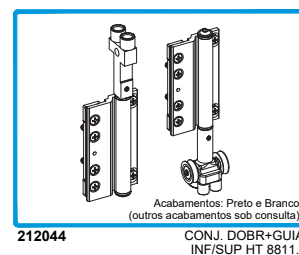
MAQUINAÇÃO DE PERFIS PARA TIPOLOGIAS DE CANTO
PROFILES MACHINING FOR CORNER TYPOLOGIES
USINAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

2 - Maquinação do perfil HT 25 vertical para aplicação de dobradiças e perfil HT 25 horizontal.
Vertical HT 25 profile machining for hinges and horizontal HT 25 profile application.
Usinage du profilé HT 25 vertical pour l'application des paumelles et du HT 25 horizontal.

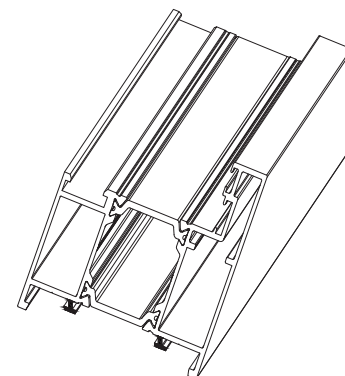
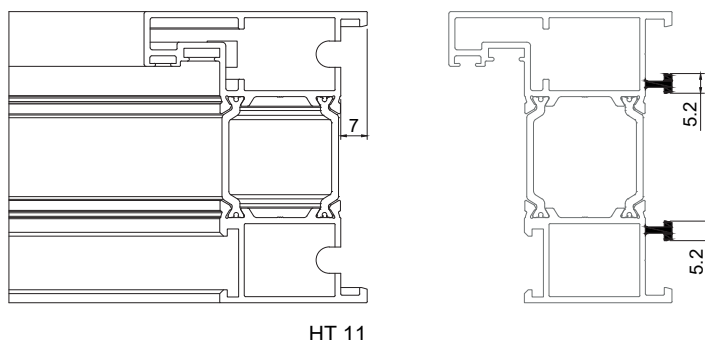


MAQUINAÇÃO DE PERFIS PARA TIPOLOGIAS DE CANTO
PROFILES MACHINING FOR CORNER TYPOLOGIES
USINAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

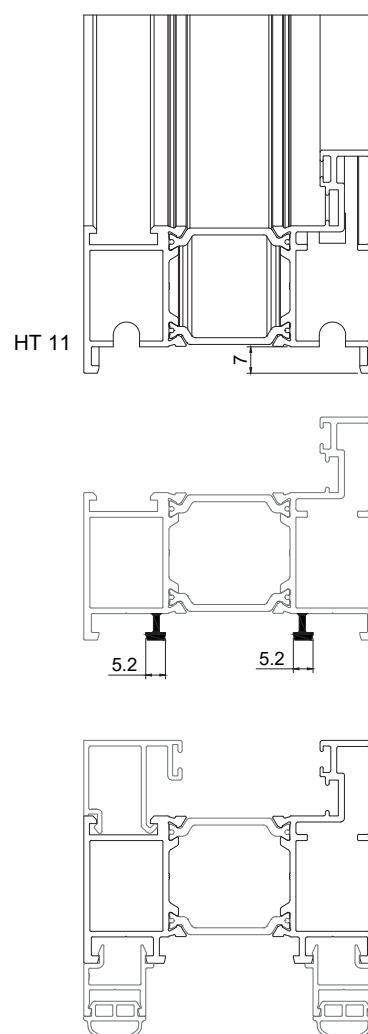
- 3 - Maquinação do perfil móvel HT 11 inferior/vertical para a movimentação da guia inferior.
Bottom/vertical HT 11 mobile profile machining for moving the bottom guide.
Usinage du profilé ouvrant HT 11 inférieur/vertical pour déplacer le guide inférieur.



VERTICAL
VERTICAL | VERTICAL

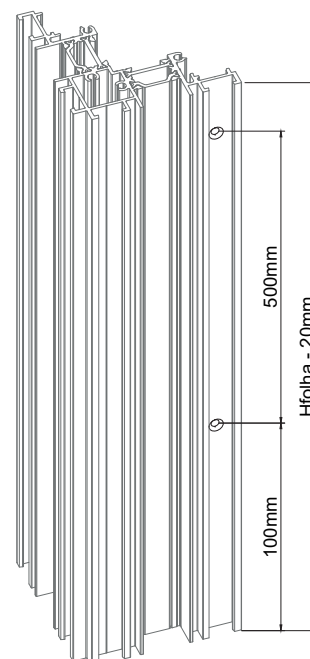
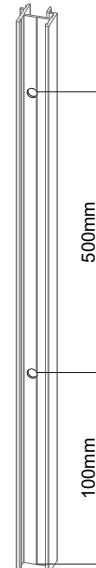
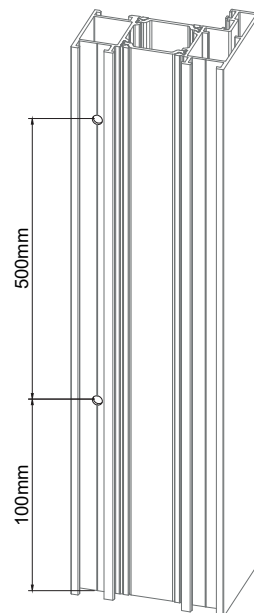
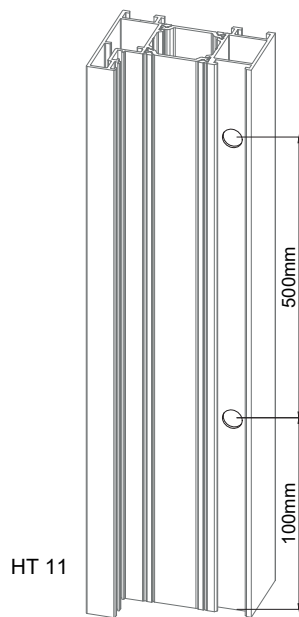
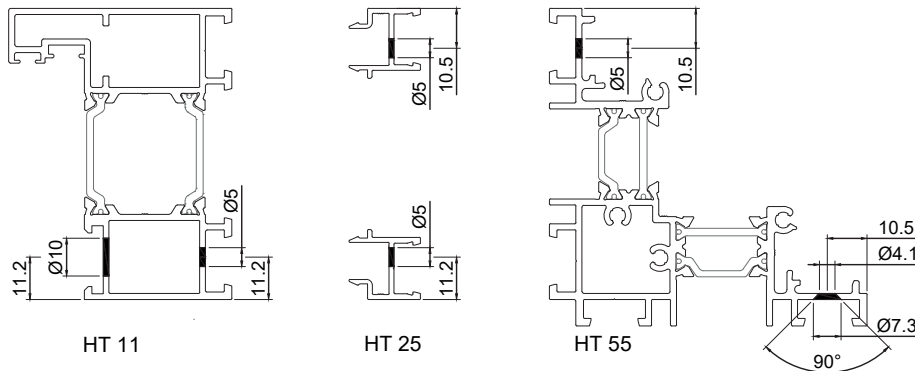


HORIZONTAL
HORIZONTAL | HORIZONTAL



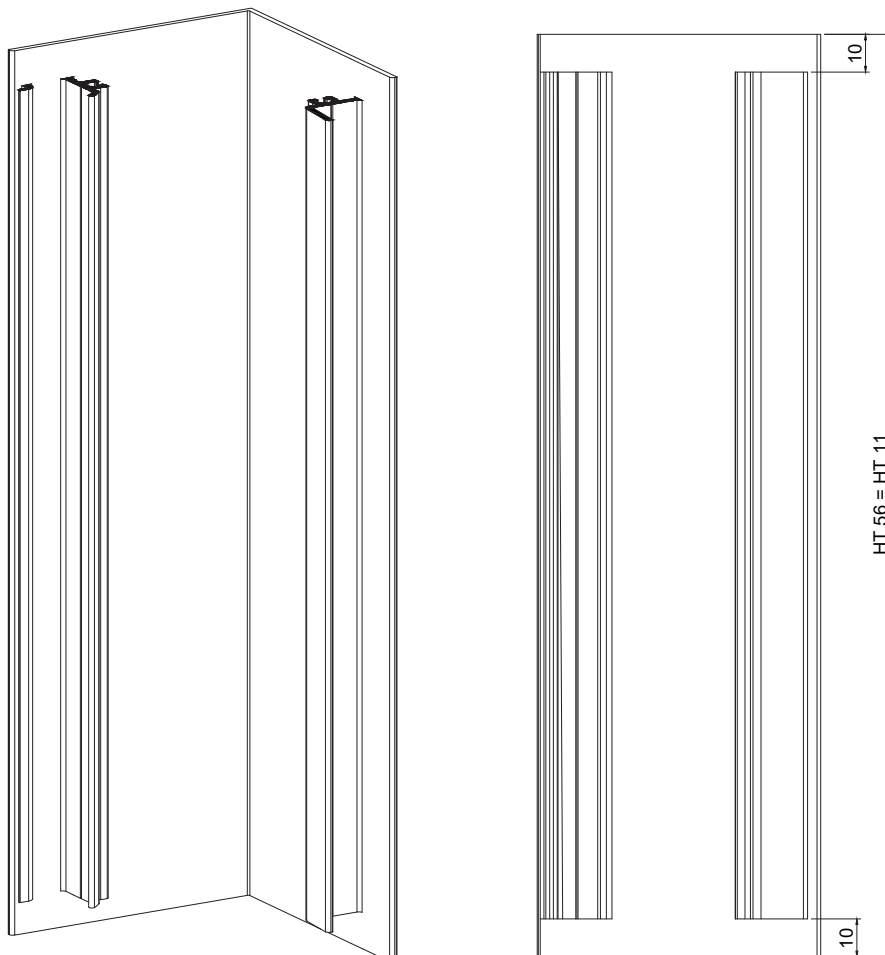
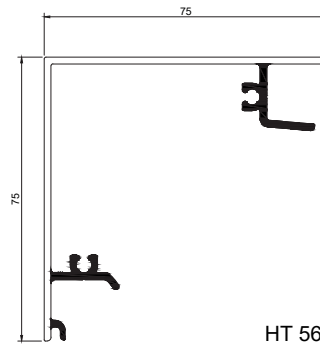
MAQUINAÇÃO DE PERFIS PARA TIPOLOGIAS DE CANTO PROFILES MACHINING FOR CORNER TYPOLOGIES USINAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

4 - Furação dos perfis HT 11, HT 25 e HT 55. HT 11, HT 25 and HT 55 profiles drilling. Perçage des profilés HT 11, HT 25 et HT 55.



MAQUINAÇÃO DE PERFIS PARA TIPOLOGIAS DE CANTO
PROFILES MACHINING FOR CORNER TYPOLOGIES
USINAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

5 - Maquinação do perfil capa HT 56.
HT 56 cover profile machining.
Usinage du profilé de capot HT 56.



VI

MONTAGEM DOS PERFIS

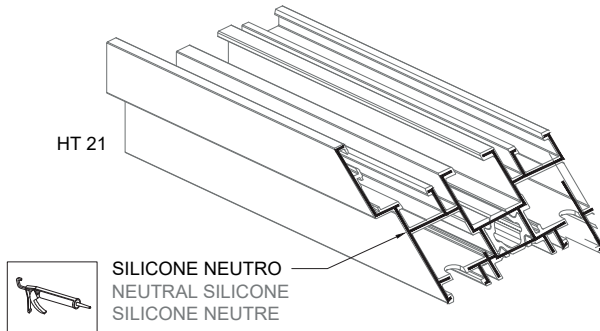
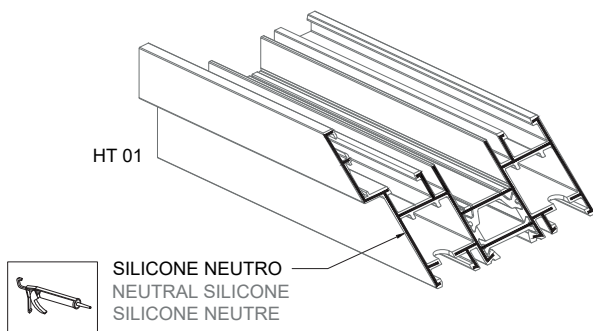
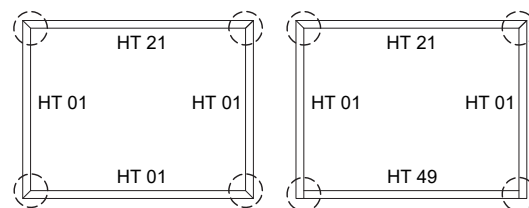
PROFILES ASSEMBLY | ASSEMBLAGE DES PROFILÉS

MONTAGEM DOS PERFIS ARO FIXO FIXED FRAME PROFILES ASSEMBLY ASSEMBLÉE DES PROFILÉS DORMANT	VI.1
MONTAGEM DOS PERFIS ARO MÓVEL MOBILE FRAME PROFILES ASSEMBLY ASSEMBLÉE DES PROFILÉS OUVRANT	VI.2
MONTAGEM DOS ACESSÓRIOS ACCESSORIES ASSEMBLY ASSEMBLAGE DES ACCESSOIRES	VI.3
MONTAGEM DOS PERFIS PARA TIPOLOGIAS DE CANTO PROFILES ASSEMBLY FOR CORNER TYPOLOGIES ASSEMBLAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE	VI.4

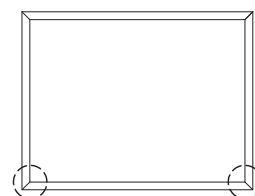
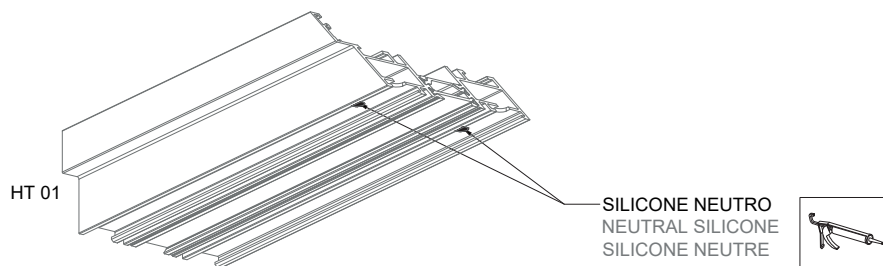
MONTAGEM DOS PERFIS ARO FIXO FIXED FRAME PROFILES ASSEMBLY ASSEMBLAGE DES PROFILÉS DORMANTS

1 - Montagem a 45°. 45° assembly. Assemblage à 45°.

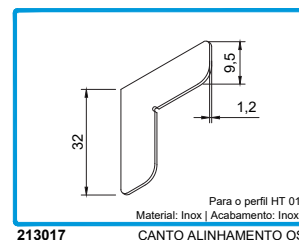
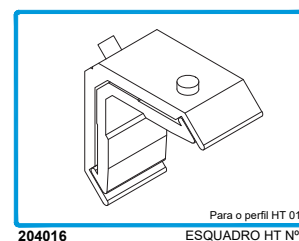
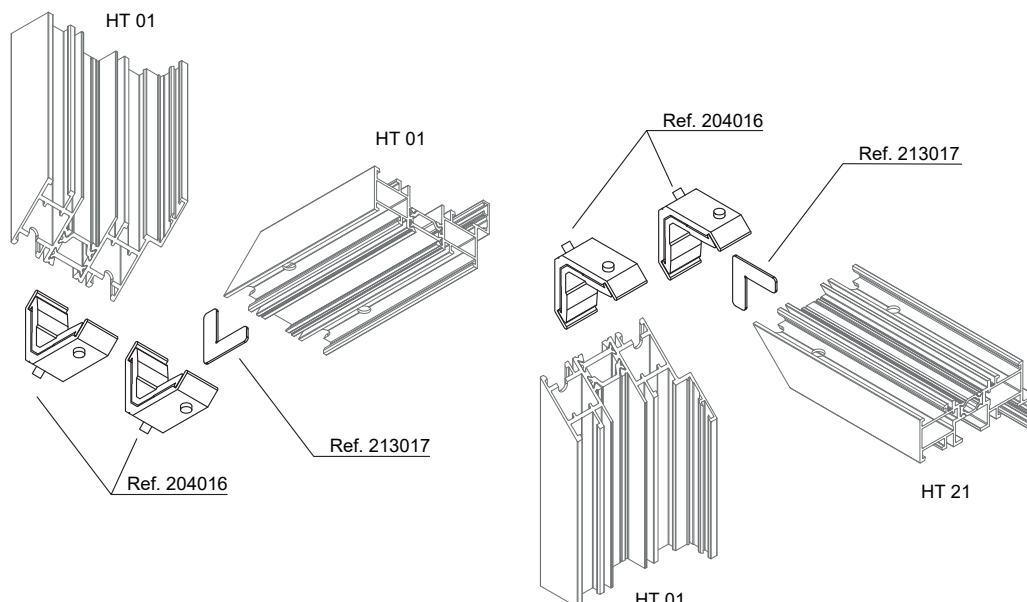
1.1 - Aplicar silicone à cor do perfil ou neutro na zona das esquadrias. Apply silicone in the same color as the profiles or neutral in the frame's areas. Appliquer du silicone sur la couleur des profilés ou neutre dans la zone des cadres.



1.2 - Antes de se colocarem os esquadros de aperto, deverão encher-se as câmaras dos perfis fixos com silicone neutro, de modo a ficarem seladas. Before placing the corner cleats, the fixed frame profiles channels must be filled with neutral silicone, in order to be sealed. Avant d'installer les étriers de serrage, les chambres des profilés fixes doivent être remplies de silicone neutre afin d'être scellées.



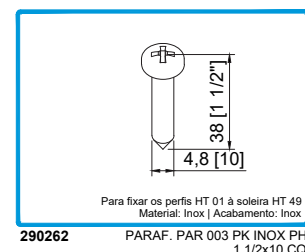
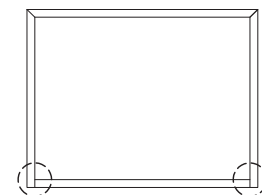
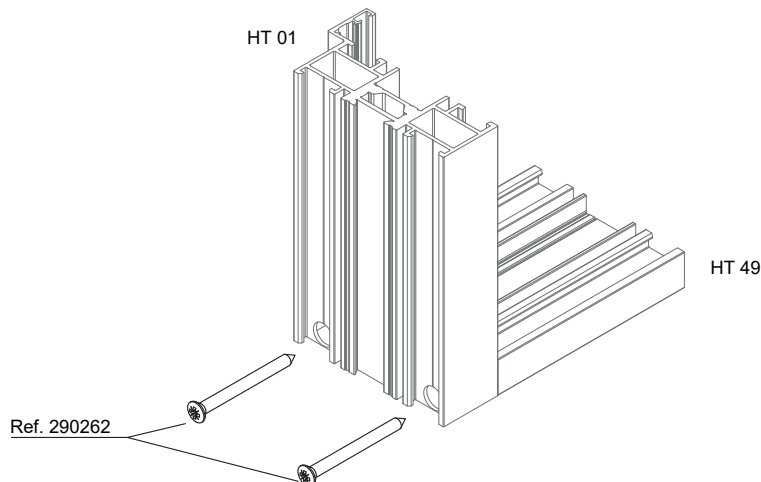
1.3 - Aplicação dos esquadros e cantos de alinhamento e preenchimento de todas as zonas de aperto dos esquadros, com silicone neutro. Corner cleats and alignment corners application and filling all the tightening areas of the corner cleats with neutral silicone. Application des équerres et angles d'alignement et remplissage de toutes les zones de serrage des équerres avec du silicone neutre.



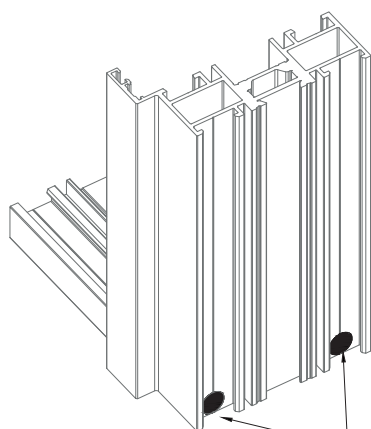
MONTAGEM DOS PERFIS ARO FIXO FIXED FRAME PROFILES ASSEMBLY ASSEMBLAGE DES PROFILÉS DORMANTS

2 - Montagem a 90°. 90° Assembly. Assemblage à 90°.

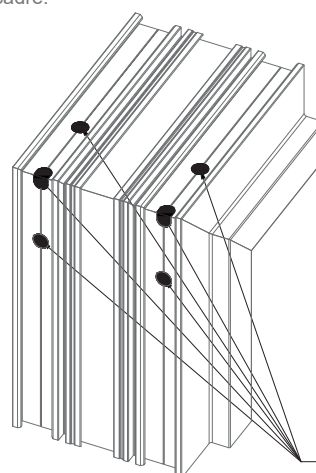
2.1 - Fixação dos perfis ombreira HT 01 e soleira HT 49 usando parafusos. HT 01 jamb and HT 49 sill profiles fixation using screws. Fixation des profilés jambage HT 01 et seuil HT 49 à l'aide de vis.



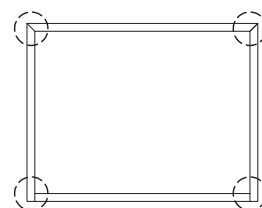
2.2 - Enchimento das câmaras nos 4 lados do aro fixo e colocação do aro ao sítio. Filling the chambers on the 4 sides of the fixed frame and placing the frame in place. Remplissage des chambres sur les 4 côtés du cadre dormant et mise en place du cadre.



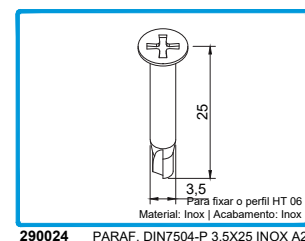
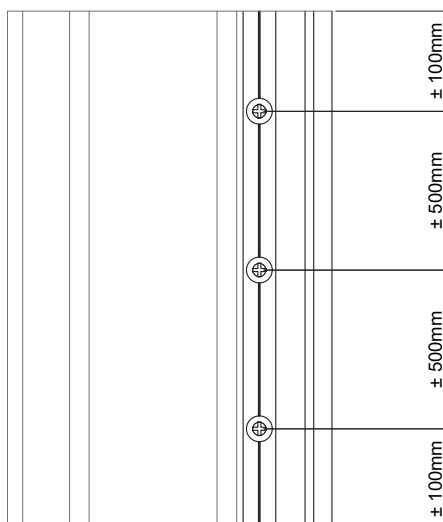
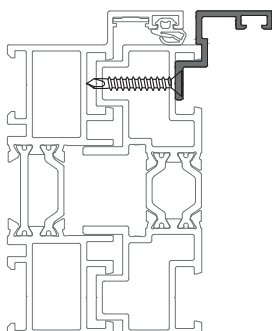
SILICONE NEUTRO
NEUTRAL SILICONE
SILICONE NEUTRE



SILICONE NEUTRO
NEUTRAL SILICONE
SILICONE NEUTRE



2.3 - Fixação do perfil complementar batente. Casement complementary profile fixation. Fixation du profilé complémentaire battant.



É necessário escarear os furos efetuados de forma a embeber a cabeça do parafuso.
It is necessary to countersink the drilled holes in order to embed the screw head.
Il est nécessaire de fraiser les trous percés afin d'encastrer la tête de vis.

MONTAGEM DOS PERFIS ARO FIXO

FIXED FRAME PROFILES ASSEMBLY

ASSEMBLAGE DES PROFILÉS DORMANTS

3 - Colocação de goteiras nos aros fixos.

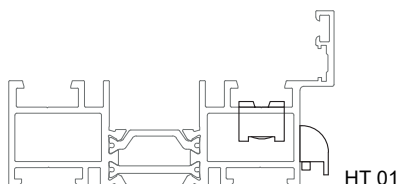
Drips placing in fixed frames.

Placement des clapets sur les cadres dormants.

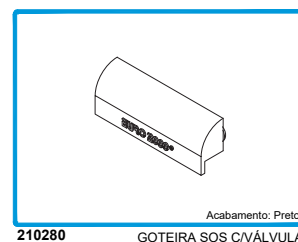
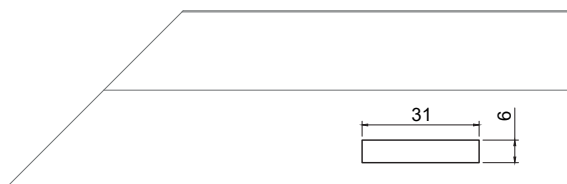
Colocar as goteiras pelo exterior do perfil e fixá-las com pontos de silicone nas extremidades.

Place the drips from the outside of the profile and fix them with silicone points at the edges.

Placer les lapets à volet extérieur à l'extérieur du profilé et fixer-les avec des points de silicone aux extrémités.



HT 01



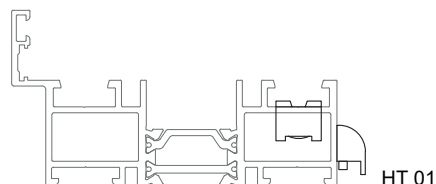
210280

Acabamento: Preto
GOTEIRA SOS C/VÁLVULA

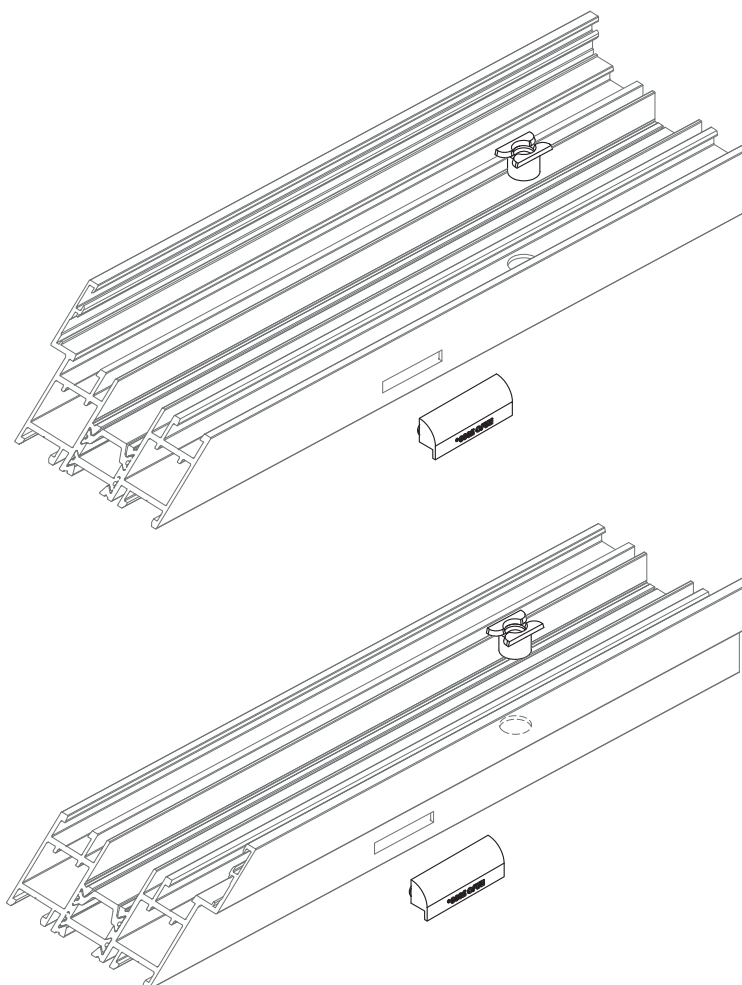
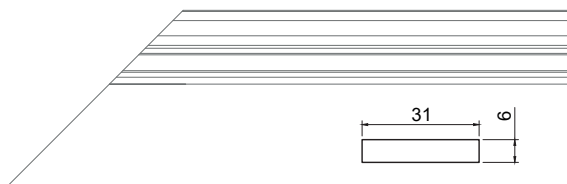


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Acabamentos: Preto e Transparente
GOTEIRA C/VÁLV. BOLA

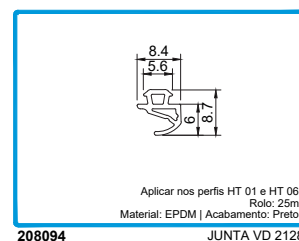
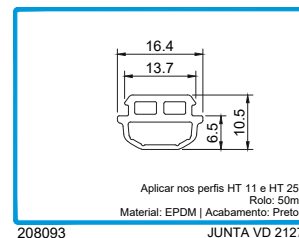
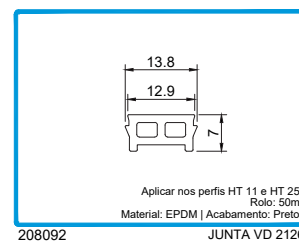
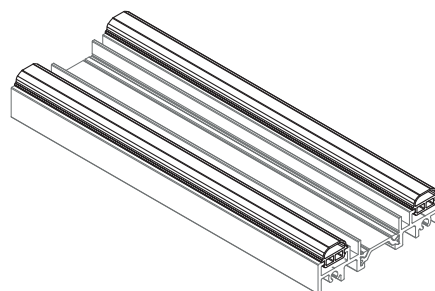
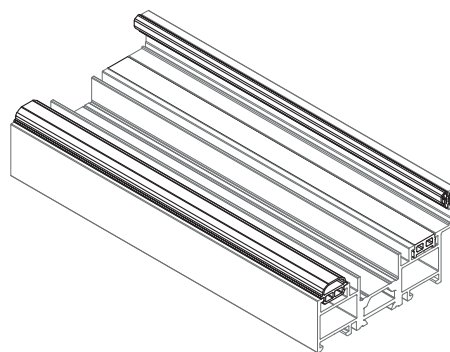
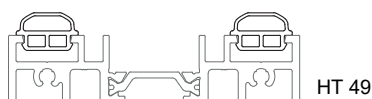
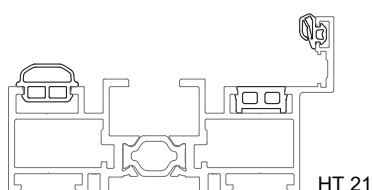
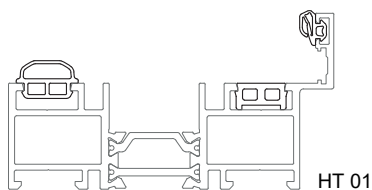


HT 01



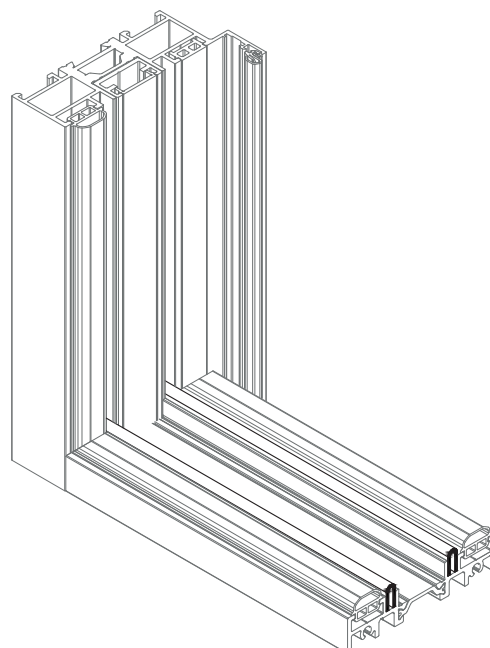
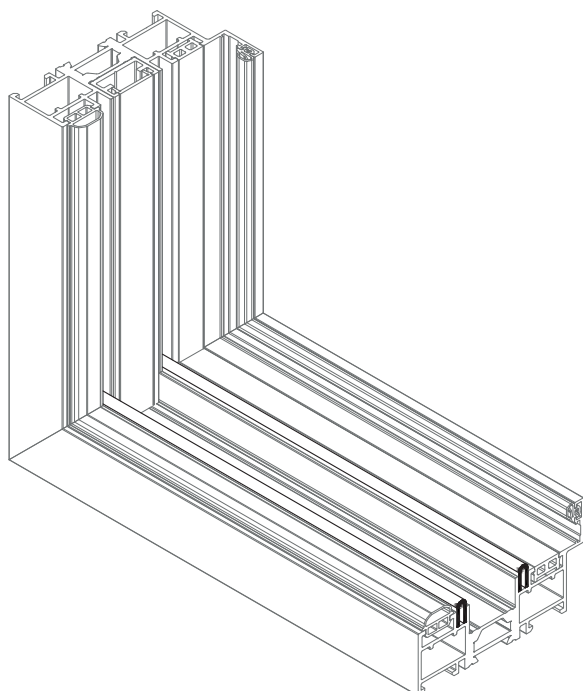
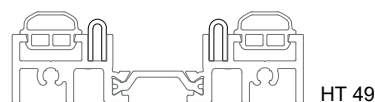
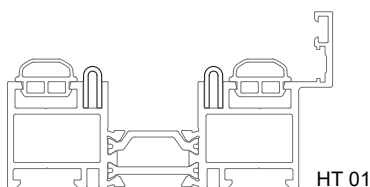
MONTAGEM DOS PERFIS ARO FIXO FIXED FRAME PROFILES ASSEMBLY ASSEMBLAGE DES PROFILÉS DORMANTS

4 - Aplicação de vedantes nos aros fixos. Seals application in fixed frames. Application des joints sur les cadres dormants.



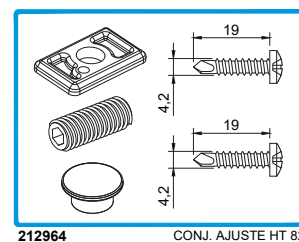
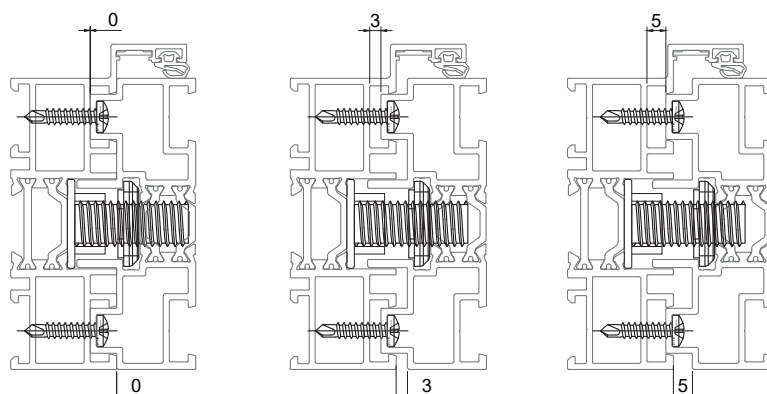
5 - Aplicação do perfil guia HT 801 nos aros fixos. HT 801 rail profile application in fixed frames. Aplicação du profilé de guide HT 801 sur les cadres dormants.

O perfil HT 801 deverá ser aplicado nas soleiras, conforme esquemas abaixo:
The HT 801 profile must be applied in the sills, according to the schemes below:
Le profilé HT 801 doit être appliqué aux seuils, selon les schémas ci-dessous:

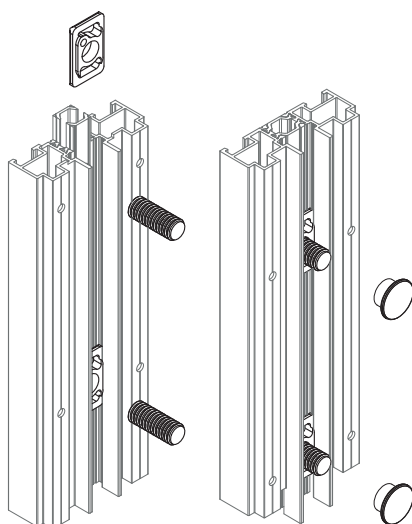


MONTAGEM DOS PERFIS ARO FIXO FIXED FRAME PROFILES ASSEMBLY ASSEMBLAGE DES PROFILÉS DORMANTS

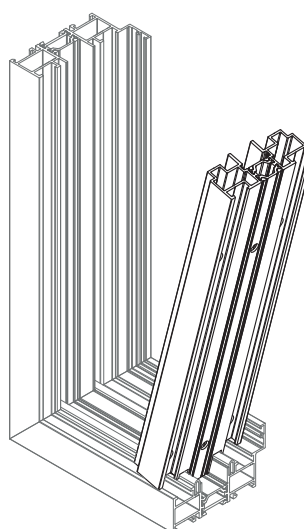
6 - Aplicação do perfil lateral de ajuste HT 82. HT 82 adjustable jamb profile application. Application du profilé de jambage réglable HT 82.



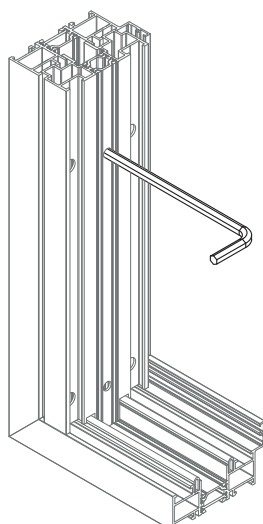
PASSO | STEP | ÉTAPE 1: Colocação dos acessórios no perfil HT 82. Accessories application in the HT 82 profile. Fixation d'accessoires au profilé HT 82.



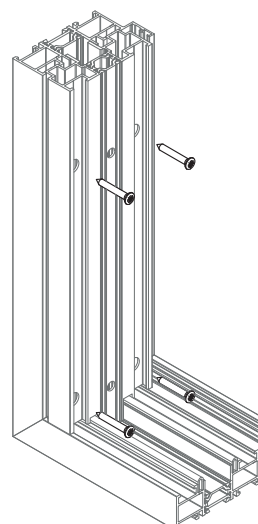
PASSO | STEP | ÉTAPE 2: Colocação do perfil HT 82 nos perfis laterais do aro fixo. Placement of the HT 82 profile on the side profiles of the fixed frame. Poser du profilé HT 82 sur les profilés latéraux du cadre dormant.



PASSO | STEP | ÉTAPE 3: Ajustar a posição do perfil HT 82. Adjust the position of the HT 82 profile. Ajuster la position du profil HT 82.



PASSO | STEP | ÉTAPE 4: Fixação do perfil HT 82 ao aro fixo. Fixing the HT 82 profile to the fixed frame. Fixation du profilé HT 82 au cadre dormant.



MONTAGEM DOS PERFIS ARO MÓVEL

MOBILE FRAME PROFILES ASSEMBLY

ASSEMBLAGE DES PROFILÉS OUVRANTS

1 - Aplicar silicone à cor do perfil ou neutro na zona das esquadrias.

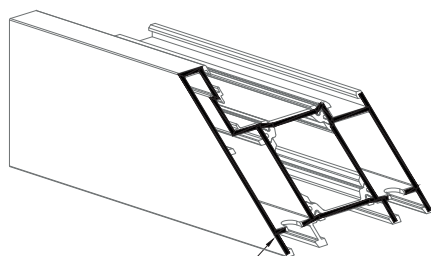
Apply silicone in the same color as the profiles or neutral in the frame's areas.

Appliquer du silicone sur la couleur des profilés ou neutre dans la zone des cadres.

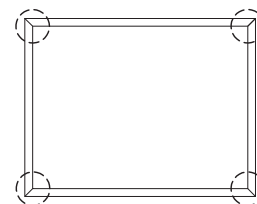
HT 11



SILICONE NEUTRO
NEUTRAL SILICONE
SILICONE NEUTRE



HT 11



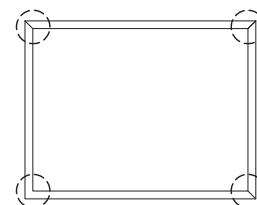
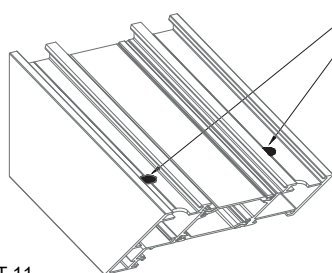
2 - Antes de se colocarem os esquadros de aperto, deverão encher-se as câmaras dos perfis fixos com silicone neutro, de modo a ficarem seladas.

Before placing the corner cleats, the fixed frame profiles channels must be filled with neutral silicone, in order to be sealed.

Avant d'installer les étriers de serrage, les chambres des profilés fixes doivent être remplies de silicone neutre afin d'être scellées.

HT 11

SILICONE NEUTRO
NEUTRAL SILICONE
SILICONE NEUTRE



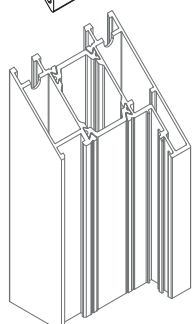
3 - Aplicação dos esquadros e cantos de alinhamento e preenchimento de todas as zonas de aperto dos esquadros, com silicone neutro.

Corner cleats and alignment corners application and filling all the tightening areas of the corner cleats with neutral silicone.

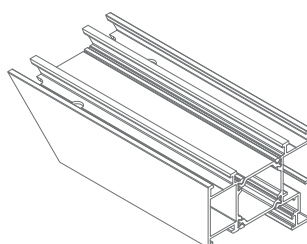
Application des équerres et angles d'alignement et remplissage de toutes les zones de serrage des équerres avec du silicone neutre.

Ref. 204017

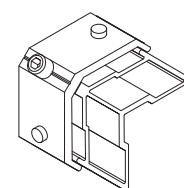
Ref. 204131



HT 11



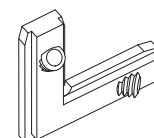
HT 11



Para o perfil HT 11

204017

ESQUADRO HT Nº2



Para o perfil HT 11

204131

ESQUADRO DE ALINH. C/ APERTO

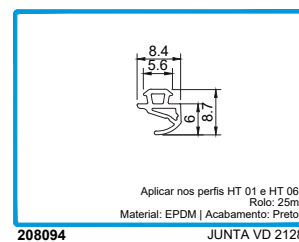
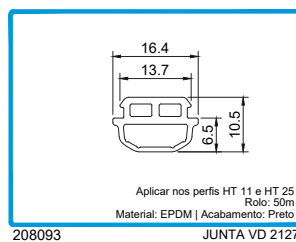
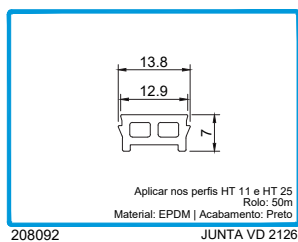
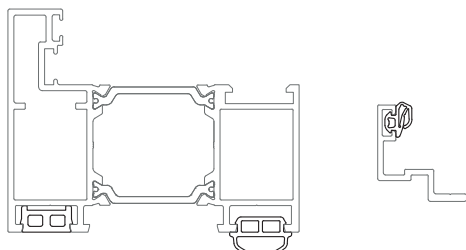
MONTAGEM DOS PERFIS ARO MÓVEL

MOBILE FRAME PROFILES ASSEMBLY

ASSEMBLAGE DES PROFILÉS OUVRANTS

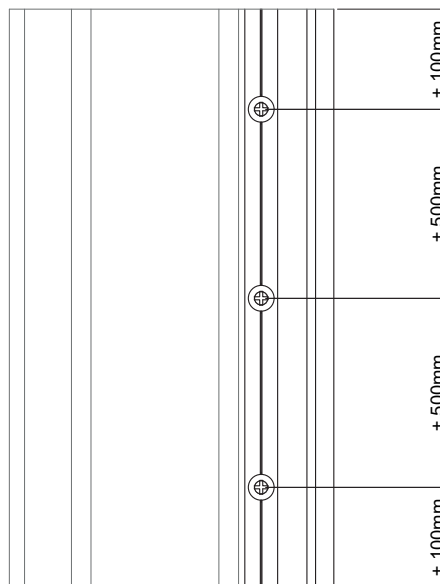
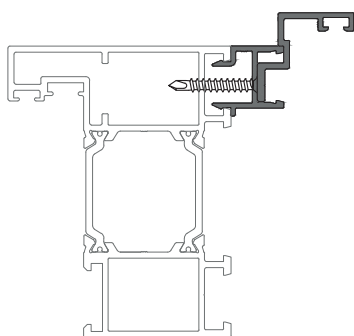
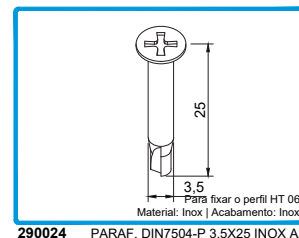
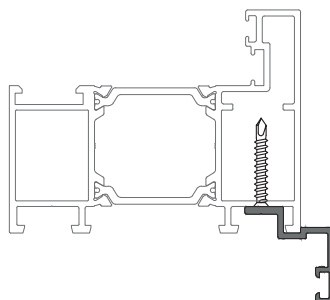
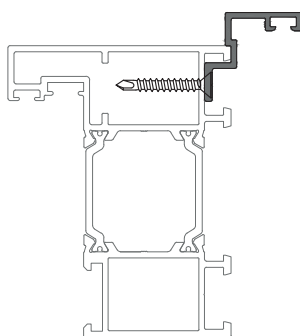
4 - Aplicação de vedantes.

Seals application.
Application des joints.



5 - Fixação do perfil complementar batente.

Casement complementary profile fixation.
Fixation du profilé complémentaire battant.



É necessário escarear os furos efetuados de forma a embeber a cabeça do parafuso.
It is necessary to countersink the drilled holes in order to embed the screw head.
Il est nécessaire de fraiser les trous percés afin d'encastrer la tête de vis.

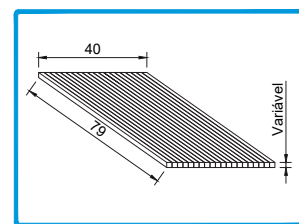
MONTAGEM DOS PERFIS ARO MÓVEL

MOBILE FRAME PROFILES ASSEMBLY

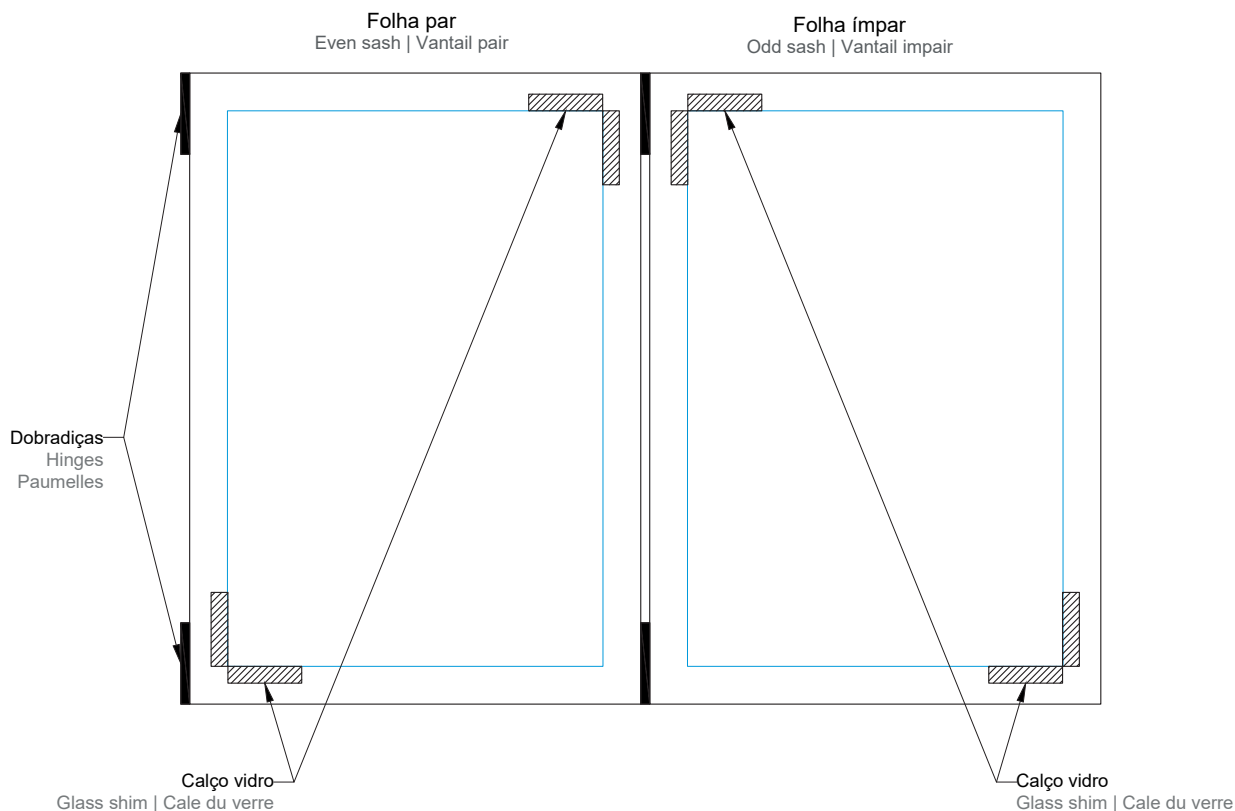
ASSEMBLAGE DES PROFILÉS OUVRANTS

6 - Aplicação dos calços de vidro.

Glass shims application.
Application des cales du verre.



218113	CALÇO PARA VIDRO 79x40x2
218109	CALÇO PARA VIDRO 79x40x3
218111	CALÇO PARA VIDRO 79x40x4
218112	CALÇO PARA VIDRO 79x40x5



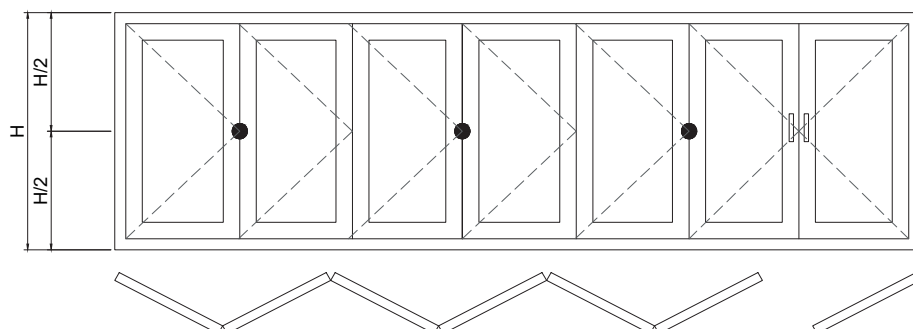
Os calços de vidro deverão ser sempre aplicados de forma simétrica entre folhas consecutivas.
Glass shims should always be applied symmetrically between consecutive sheets.
Les cales de verre doivent toujours être appliquées symétriquement entre les feuilles consécutives.

MONTAGEM DOS ACESSÓRIOS ACCESSORIES ASSEMBLY ASSEMBLAGE DES ACCESSOIRES

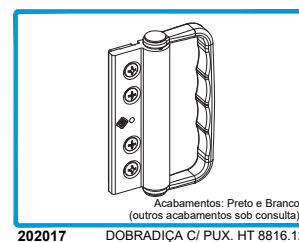
- 1 - Aplicação das dobradiças com puxador.
Pulling hinges application.
Application des paumelles avec poignée.

EXEMPLO | EXAMPLE | EXEMPLE

Tipologia 761 - abertura interior
Typology 761 - inward opening | Typologie 761 - ouverture vers l'intérieure



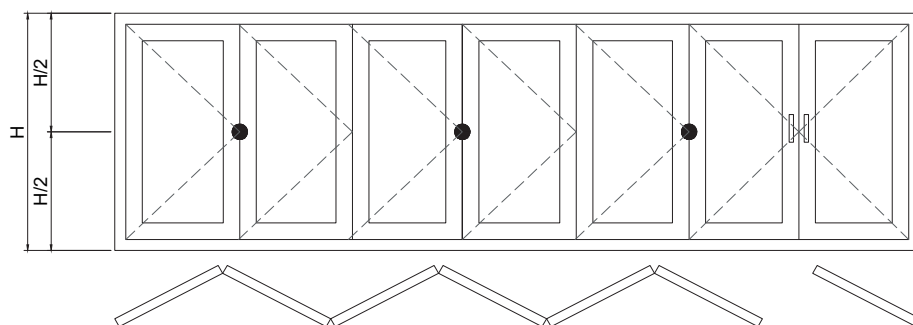
● Posição de aplicação
Application position
Position d'application



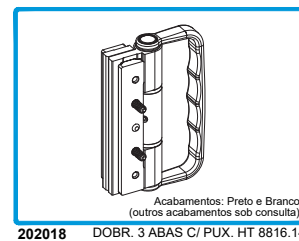
- 2 - Aplicação das dobradiças 3 lemes com puxador.
3 Flaps pulling hinges application.
Application des paumelles de 3 lames avec poignée.

EXEMPLO | EXAMPLE | EXEMPLE

Tipologia 761 - abertura exterior
Typology 761 - outward opening | Typologie 761 - ouverture vers l'extérieure



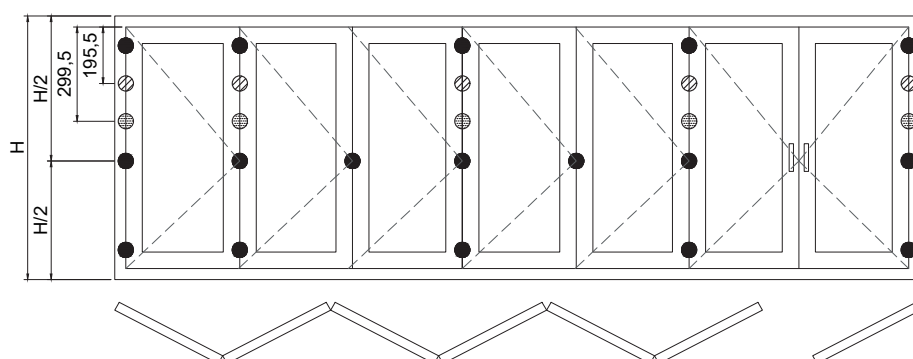
● Posição de aplicação
Application position
Position d'application



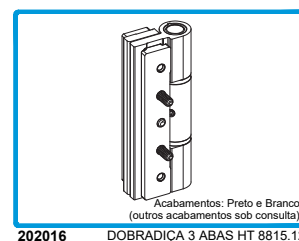
- 3 - Aplicação das dobradiças 3 abas.
3 Flaps hinges application.
Application des paumelles de 3 lames.

EXEMPLO | EXAMPLE | EXEMPLE

Tipologia 761 - abertura interior
Typology 761 - inward opening | Typologie 761 - ouverture vers l'intérieure



- Quantidade Base (para folhas com P<90kg e H<2200mm)
Standard Quantity (for sashes with P<90kg and H<2200mm)
Quantité Standard (pour vantaux avec P<90kg et H<2200mm)
- ⊗ Aumento 1 (para folhas com P<90kg e 2200mm<H<3000mm)
Increase 1 (for sashes with P<90kg and 2200mm<H<3000mm)
Augmente 1 (pour vantaux avec P<90kg et 2200mm<H<3000mm)
- Aumento 2 (para folhas com P<90kg e H>3000mm)
Increase 2 (for sashes with P<90kg and H>3000mm)
Augmente 2 (pour vantaux avec P<90kg et H>3000mm)



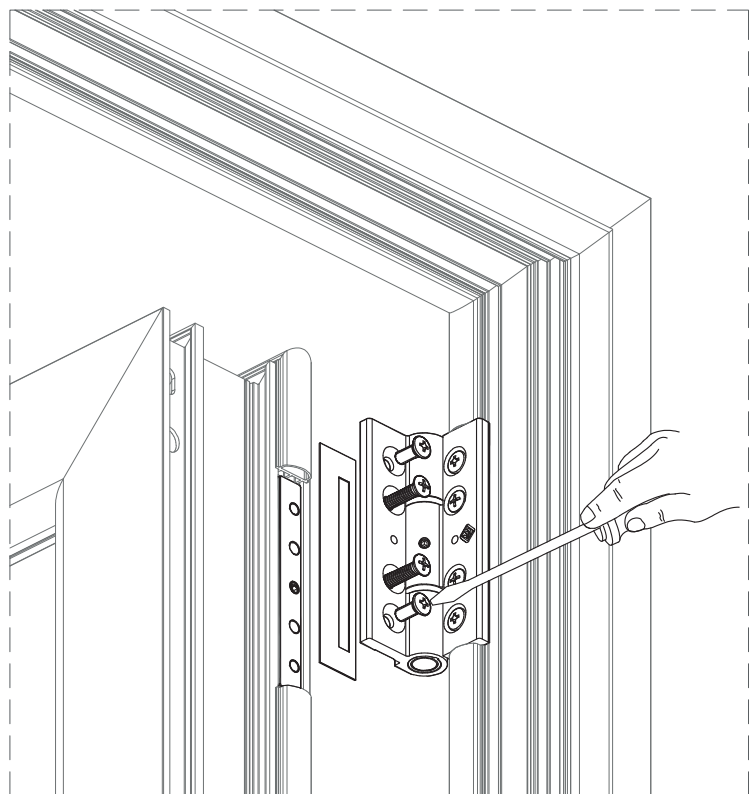
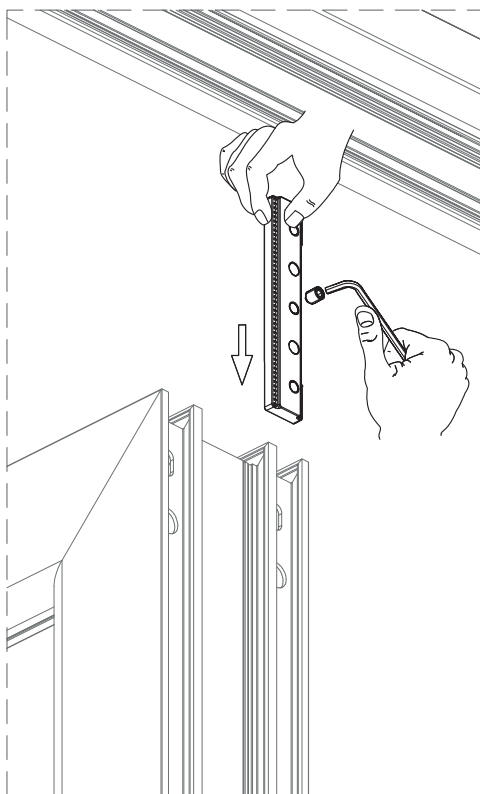
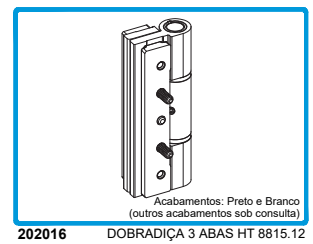
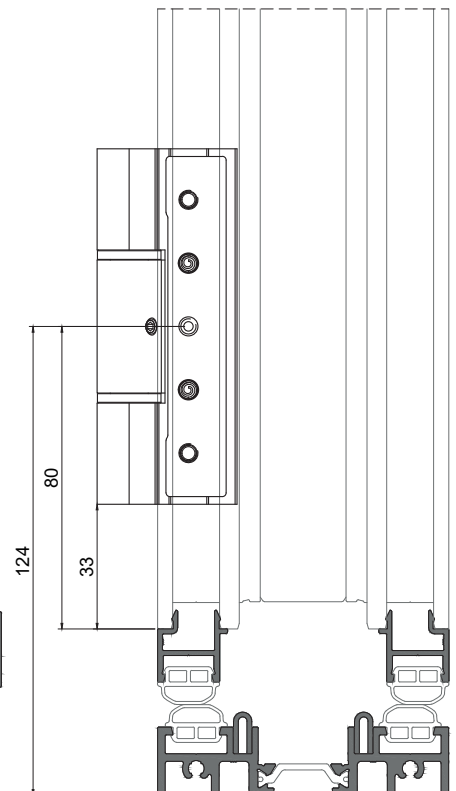
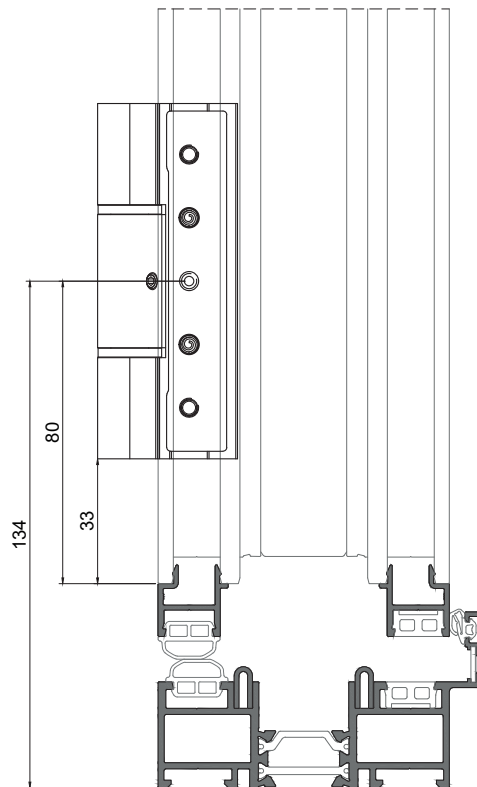
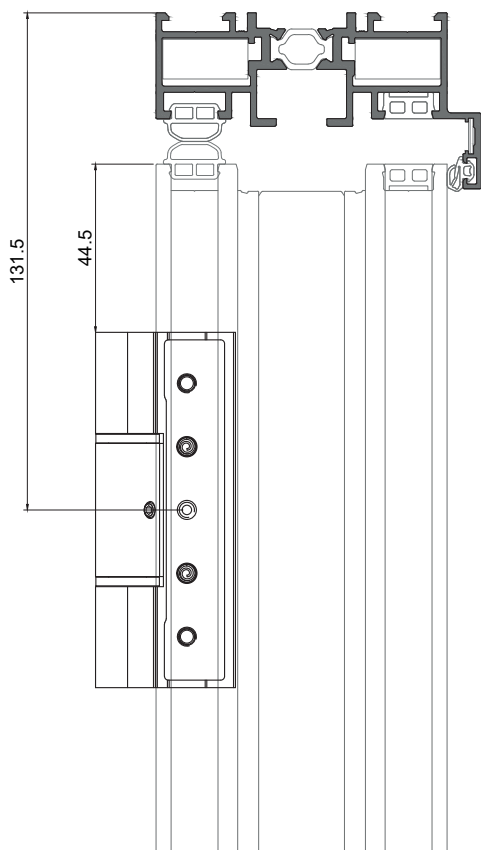
MONTAGEM DOS ACESSÓRIOS

ACCESSORIES ASSEMBLY

ASSEMBLAGE DES ACCESSOIRES

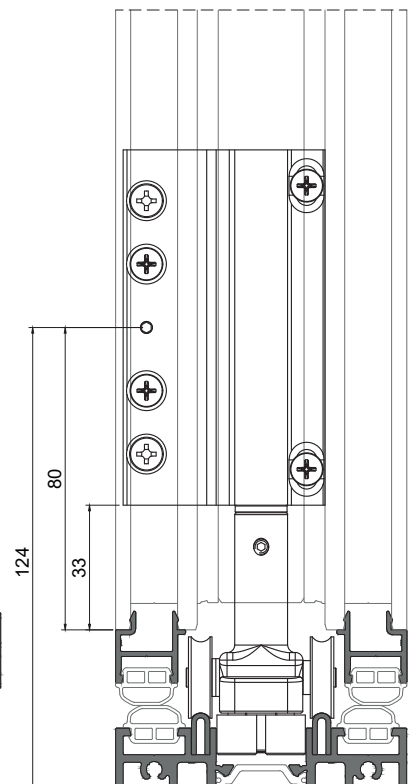
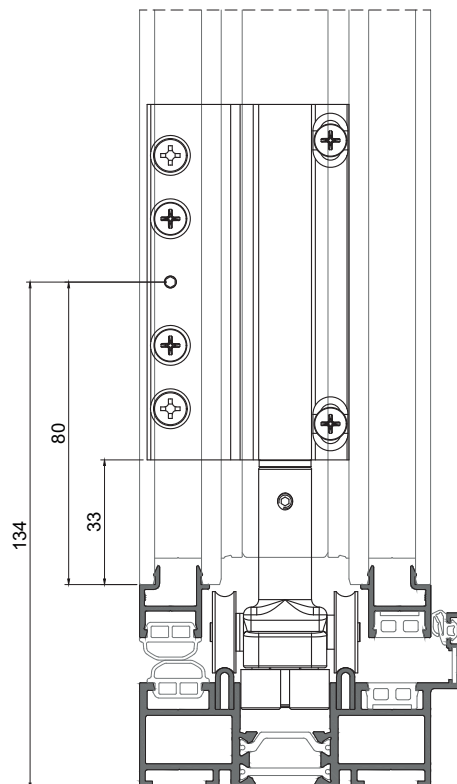
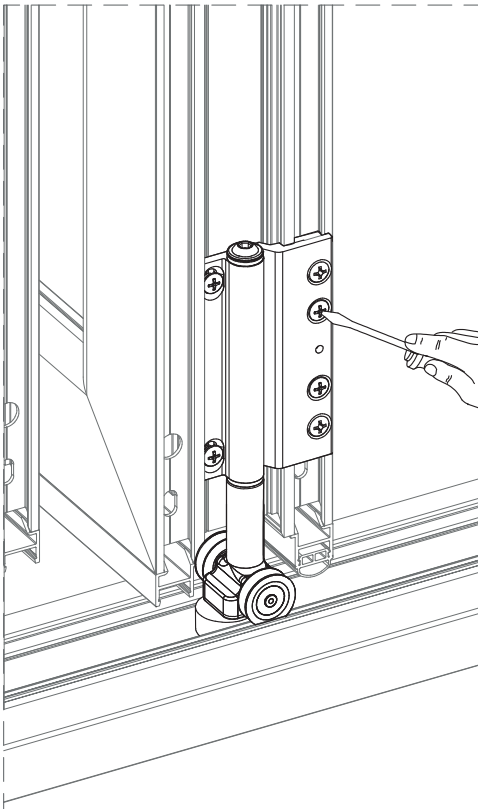
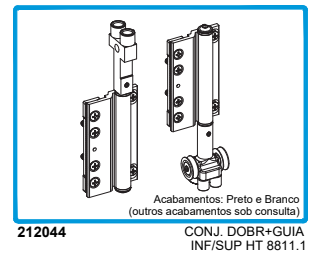
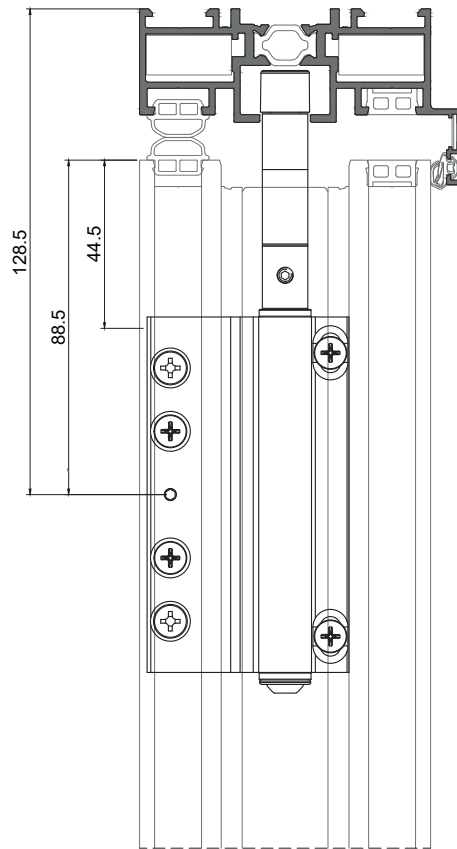
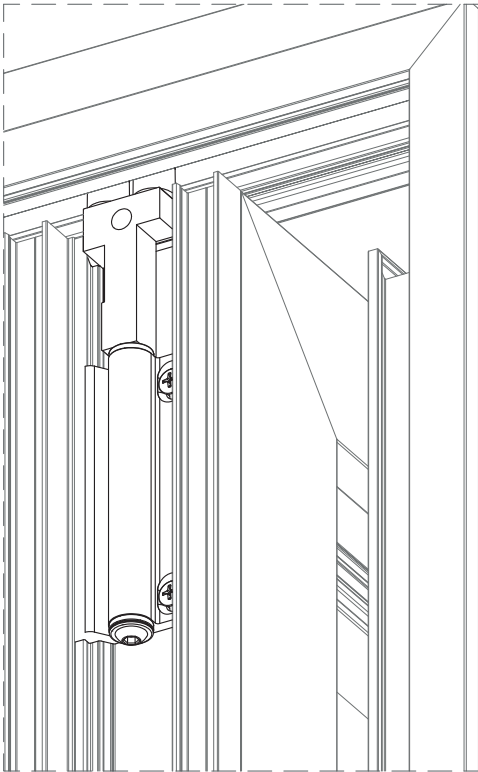
4 - Aplicação das dobradiças 3 abas.

3 Flaps hinges application.
Application des paumelles de 3 lames.



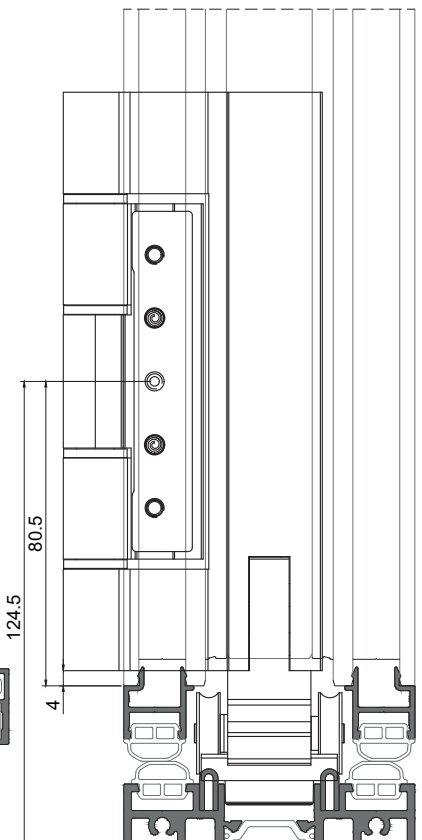
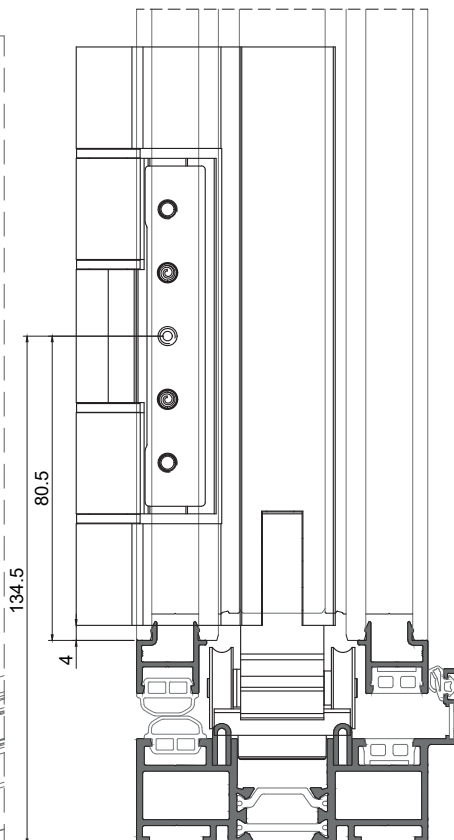
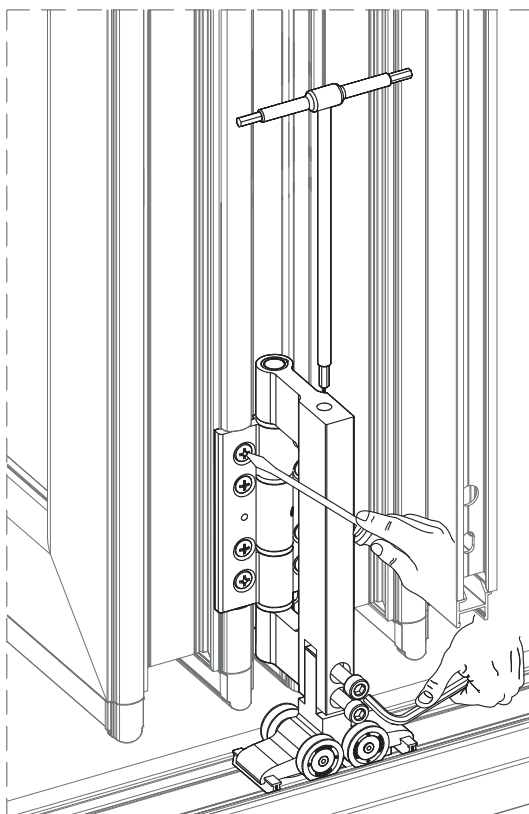
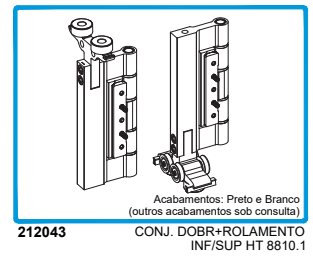
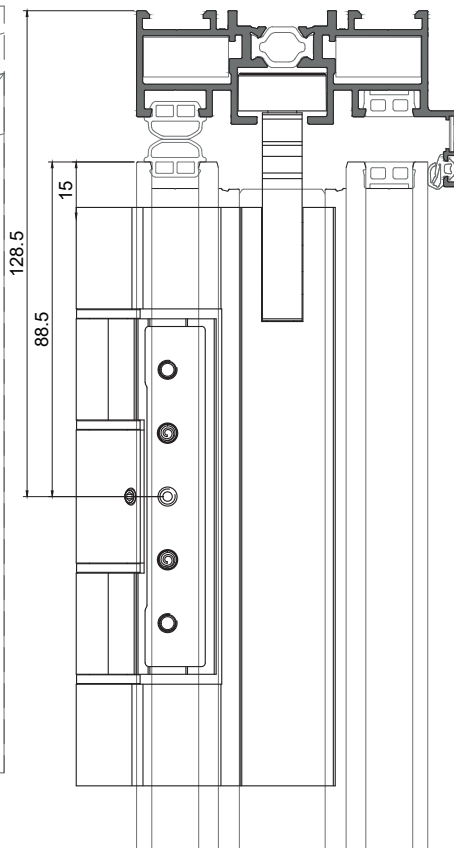
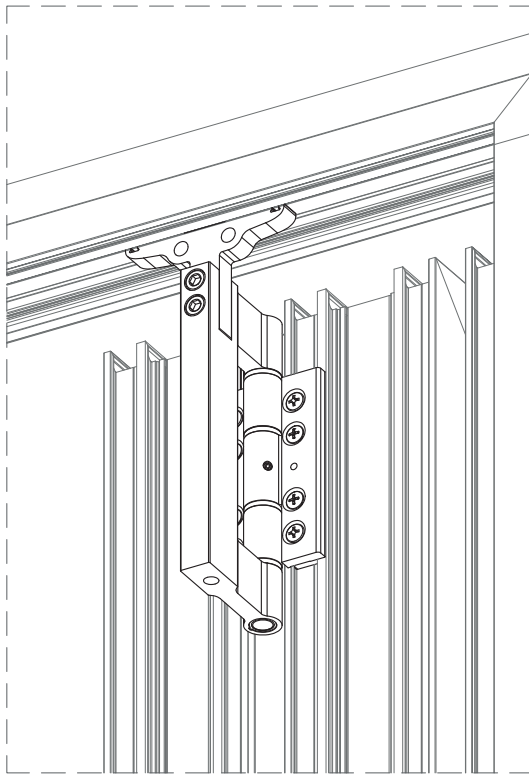
MONTAGEM DOS ACESSÓRIOS
ACCESSORIES ASSEMBLY
ASSEMBLAGE DES ACCESSOIRES

5 - Aplicação do Conj. Dobradiça+Guia Inf/Sup.
Bottom/Top Hinge+Guide Kit application.
Application du Kit de Paumelles+Guide Inf/Sup.



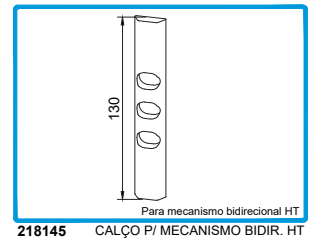
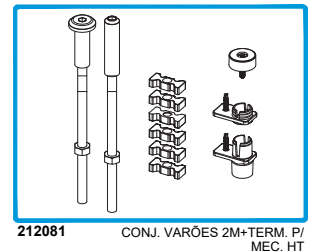
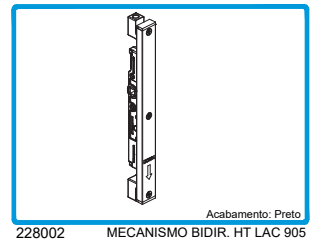
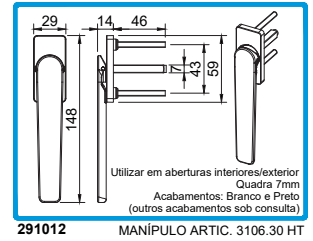
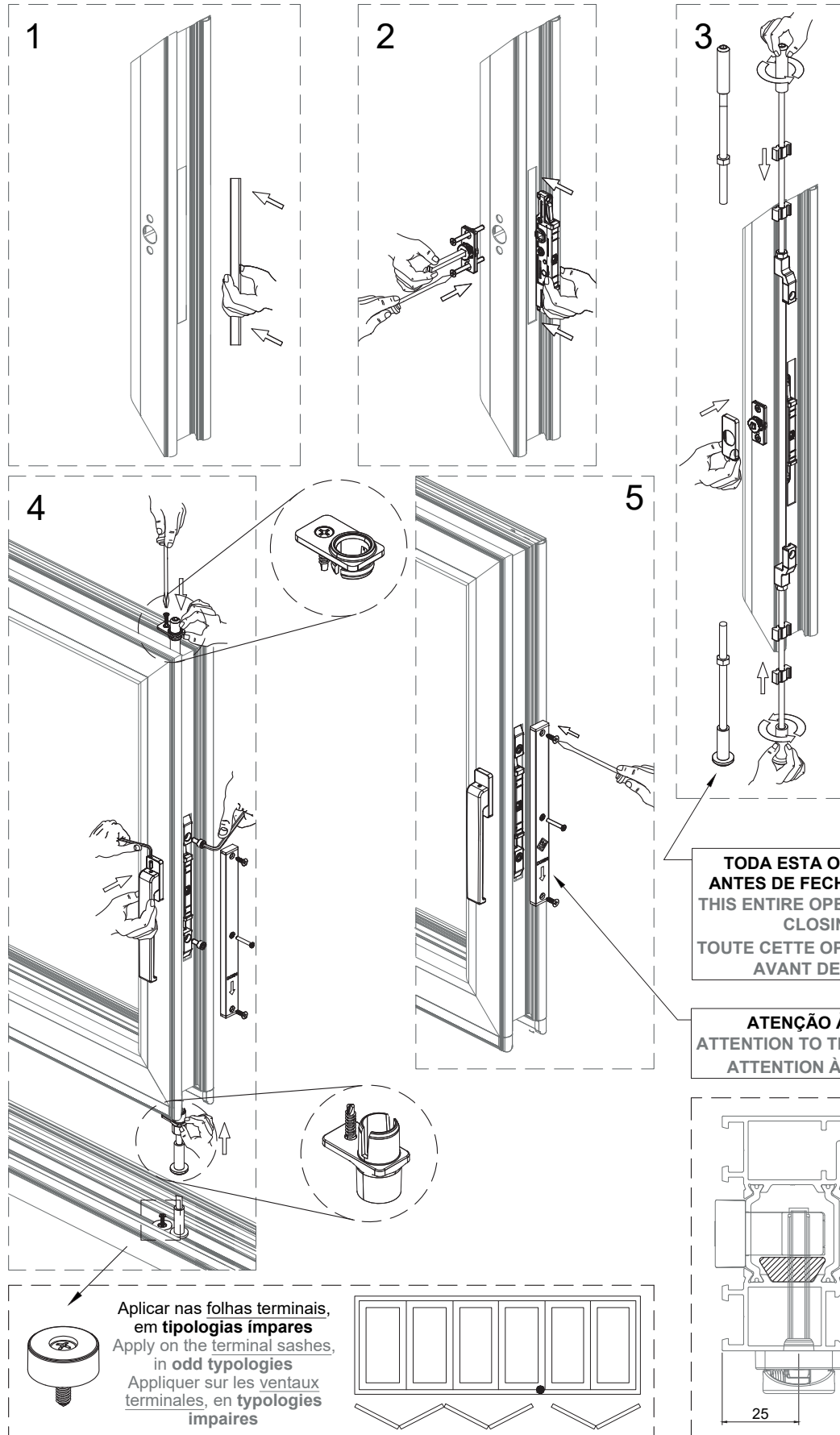
MONTAGEM DOS ACESSÓRIOS
ACCESSORIES ASSEMBLY
ASSEMBLAGE DES ACCESSOIRES

6 - Aplicação do Conj. Dobradiça+Rolamento Inf/Sup.
Bottom/Top Hinge+Roller Kit application.
Application du Kit de Paumelles+Roulement Inf/Sup.



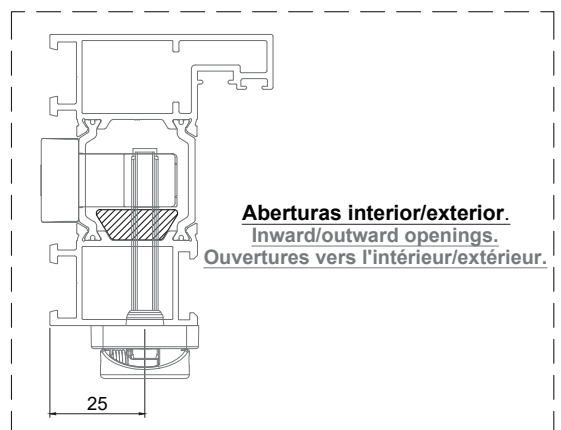
MONTAGEM DOS ACESSÓRIOS
ACCESSORIES ASSEMBLY
ASSEMBLAGE DES ACCESSOIRES

7 - Aplicação do Conj. Mecanismo Bidirecional com calço e Manípulo Articulado.
Bidirectional Mechanism Kit with shim and Foldable System Handle application.
Application du Kit de Mécanisme Bidirectionnel avec cale et Poignée pour système repliable.



TODA ESTA OPERAÇÃO DEVERÁ SER FEITA ANTES DE FECHAR AS ESQUADRIAS DA FOLHA
THIS ENTIRE OPERATION MUST BE DONE BEFORE CLOSING THE MOBILE FRAME
TOUTE CETTE OPÉRATION DOIT ÊTRE EFFECTUÉE AVANT DE FERMER LES OUVRANTES

ATENÇÃO À POSIÇÃO DO MECANISMO
ATTENTION TO THE POSITION OF THE MECHANISM
ATTENTION À LA POSITION DU MÉCANISME



MONTAGEM DOS ACESSÓRIOS

ACCESSORIES ASSEMBLY

ASSEMBLAGE DES ACCESSOIRES

8 - Aplicação dos Conj. Topos p/ VD 2126 e 2127.

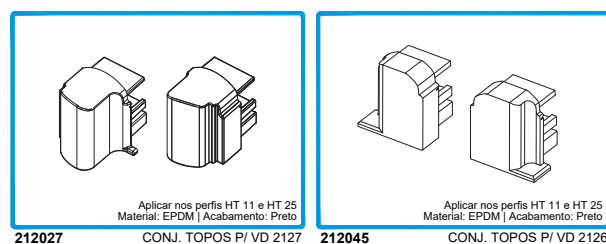
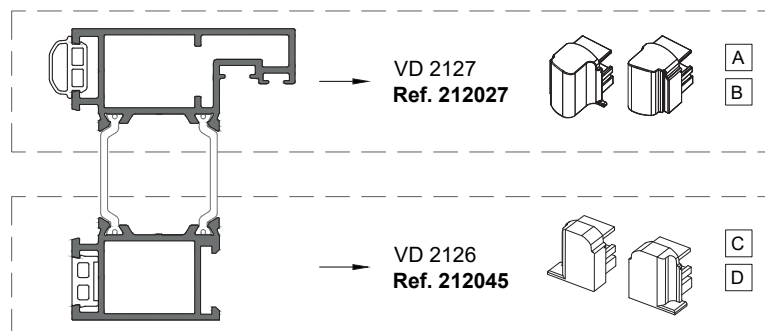
2126 and 2127 Gasket End-caps Kit application.

Application des Kits d'Embouts pour Joints 2126 et 2127.

A escolha do Topo a aplicar depende do vedante vertical:

The choice of the End-cap to apply depends on the vertical gasket:

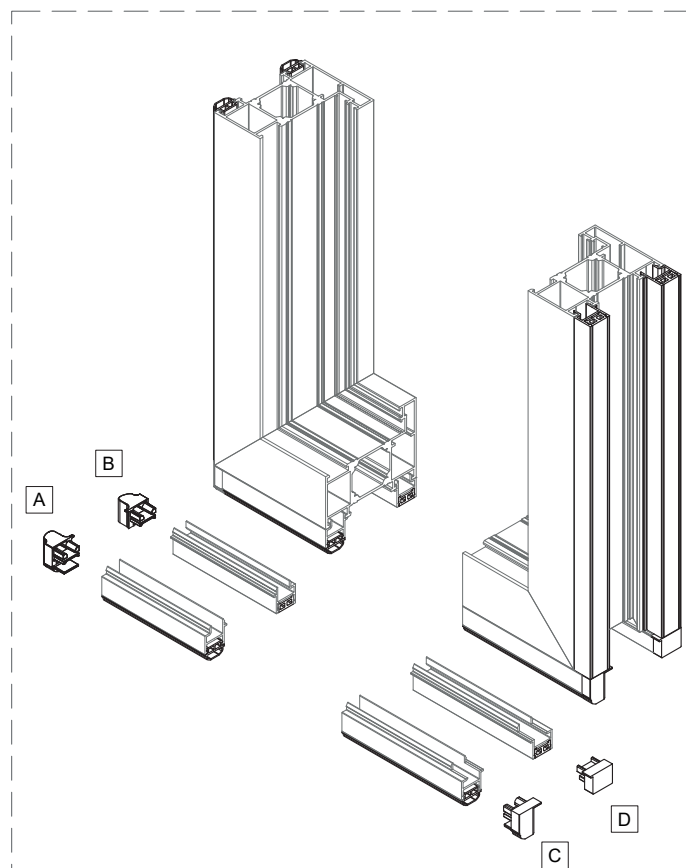
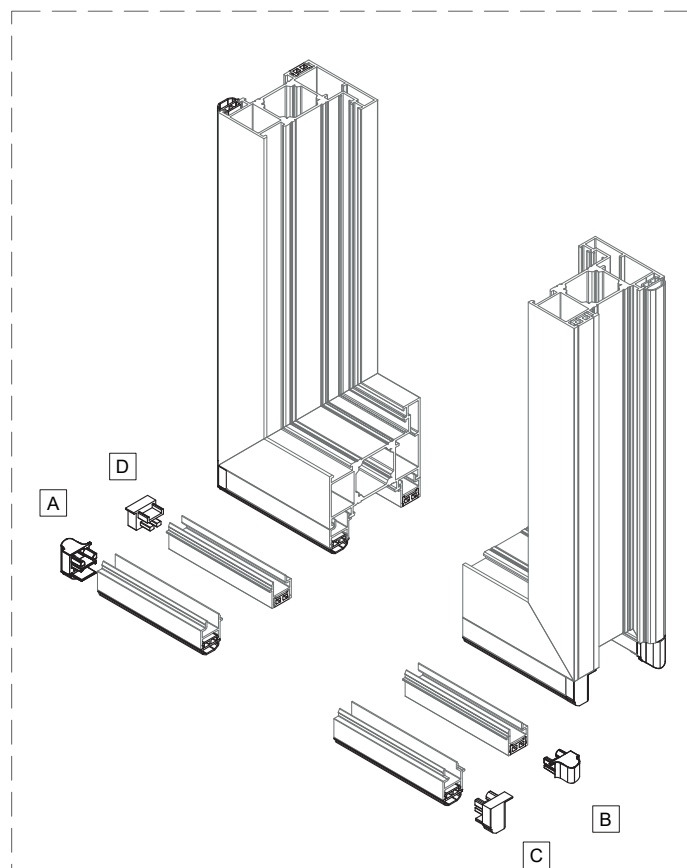
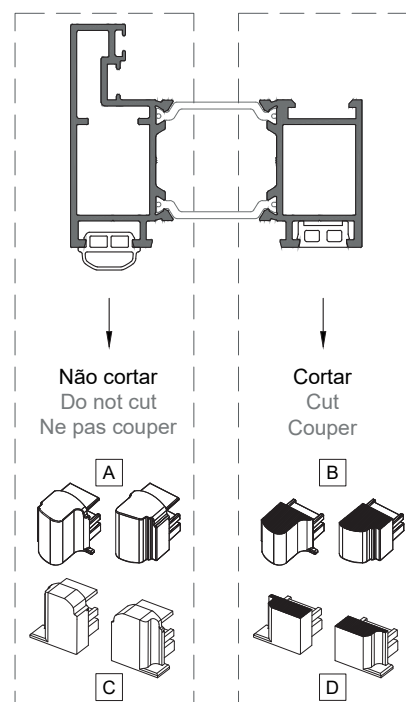
Le choix d'Embout à appliquer dépend du joint vertical:



A necessidade de cortar o Topo depende do vedante horizontal:

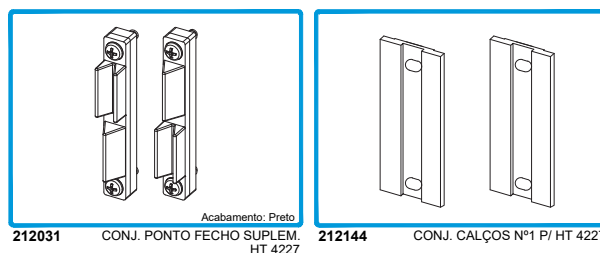
The need to cut the End-cap depends on the horizontal gasket:

La nécessité de découper l'Embout dépend du joint horizontal:



MONTAGEM DOS ACESSÓRIOS ACCESSORIES ASSEMBLY ASSEMBLAGE DES ACCESSOIRES

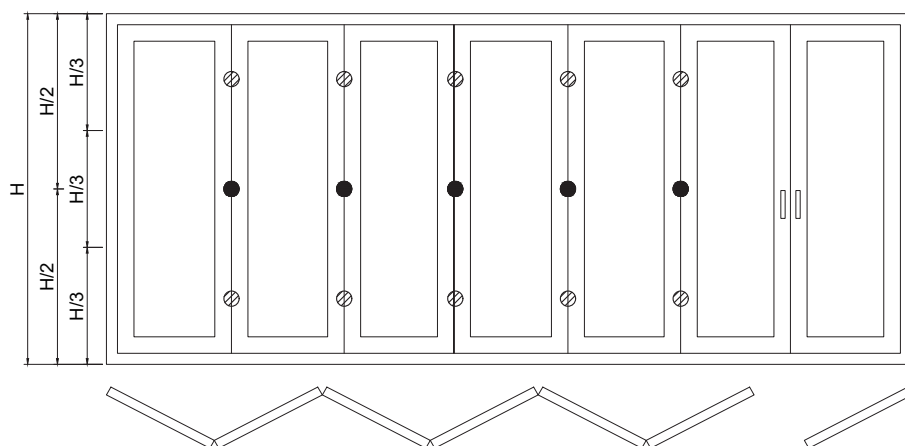
9 - Aplicação dos Conj. Ponto Fecho Suplem. 4227 HT e de Calços Nº 1.
Additional Closing Point and No. 1 Shim Kits application.
Application des Kits de Point de Fermeture Supplémentaire et Cales Nº 1.



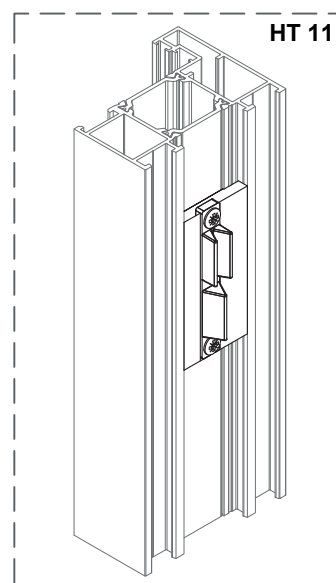
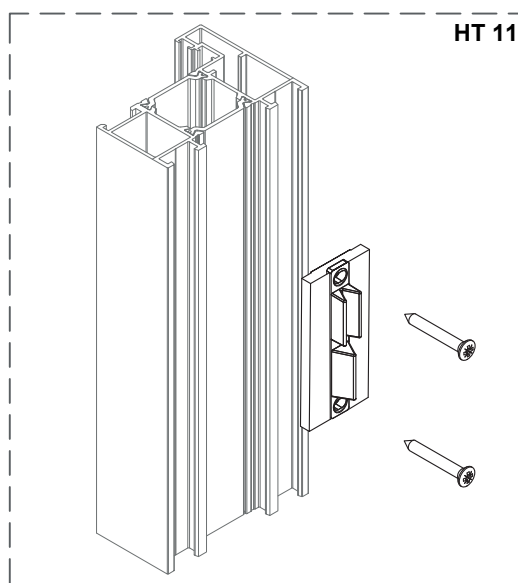
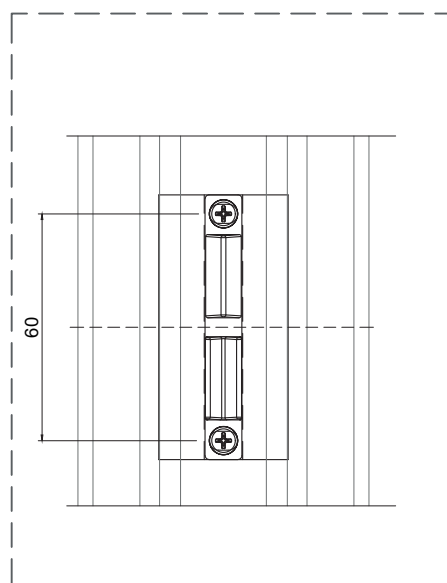
EXEMPLO | EXAMPLE | EXEMPLE

Tipologia 761 - abertura interior

Typology 761 - inward opening | Typologie 761 - ouverture vers l'intérieur



- Posição de aplicação
(para folhas com H<2200mm)
Application position
(for sashes with H<2200mm)
Position d'application
(pour vantaux avec H<2200mm)
- ⊙ Posição de aplicação
(para folhas com H>2200mm)
Application position
(for sashes with H>2200mm)
Position d'application
(pour vantaux avec H>2200mm)

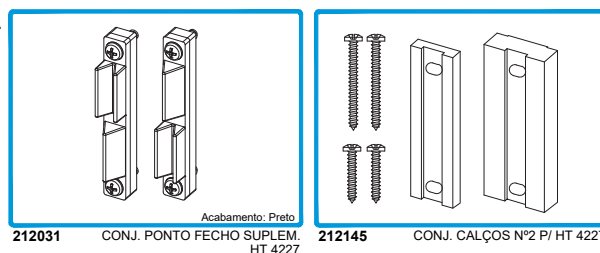


NOTA | NOTE | REMARQUE:

A aplicação do Conj. Calços Nº1 p/ HT 4227 substitui a utilização do calço incluído no Conj. Ponto de Fecho suplementar HT 4227.
The application of the No. 1 Shims Kit for 4227 HT replaces the use of the shim included in the HT 4227 Additional Closing Point Kit.
L'application du Kit de cales Nº1 pour HT 4227 remplace le cale incluse dans les Kits de Point de Fermeture Supplémentaire HT 4227.

MONTAGEM DOS ACESSÓRIOS ACCESSORIES ASSEMBLY ASSEMBLAGE DES ACCESSOIRES

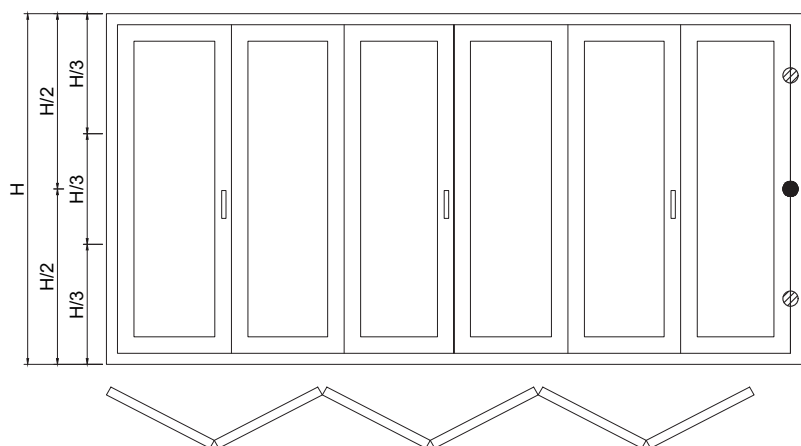
10 - Aplicação dos Conj. Ponto Fecho Suplem. 4227 HT e de Calços Nº 2.
Additional Closing Point and No. 2 Shim Kits application.
Application des Kits de Point de Fermeture Supplémentaire et Cales Nº 2.



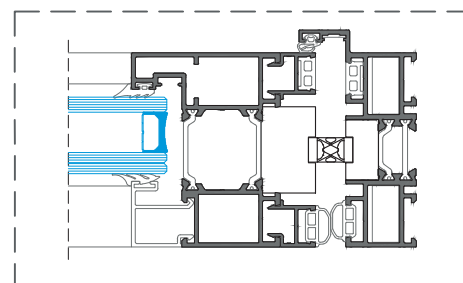
EXEMPLO | EXAMPLE | EXEMPLE

Tipologia 660 - abertura interior

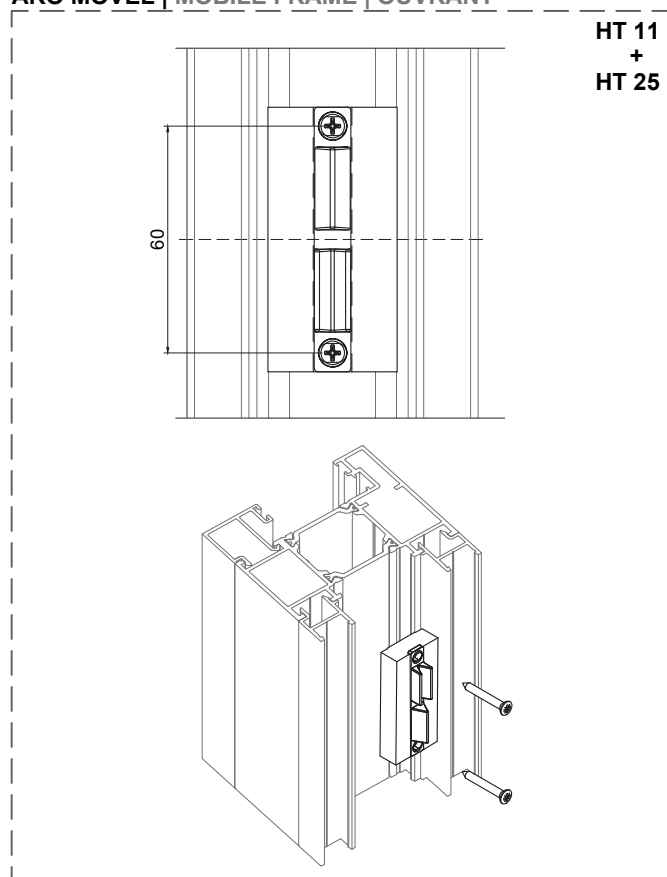
Typology 660 - inward opening | Typologie 660 - ouverture vers l'intérieure



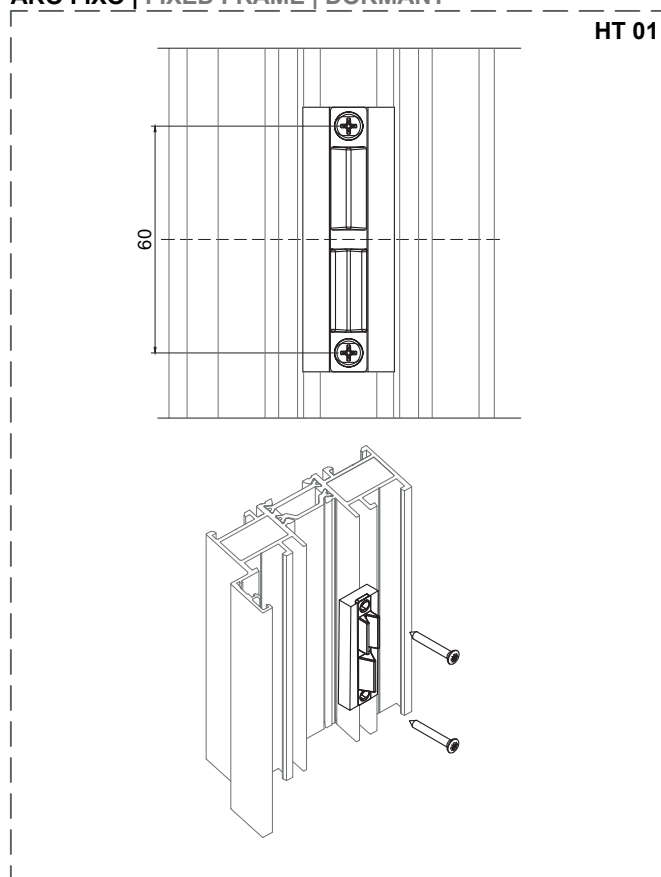
- Posição de aplicação
(para folhas com H<2200mm)
Application position
(for sashes with H<2200mm)
Position d'application
(pour vantaux avec H<2200mm)
- ⊗ Posição de aplicação
(para folhas com H>2200mm)
Application position
(for sashes with H>2200mm)
Position d'application
(pour vantaux avec H>2200mm)



ARO MÓVEL | MOBILE FRAME | OUVRANT



ARO FIXO | FIXED FRAME | DORMANT

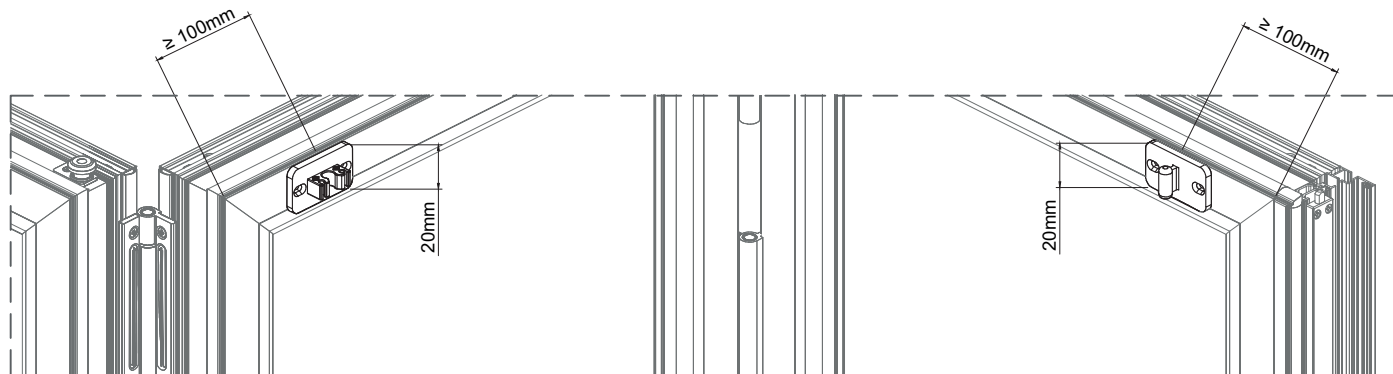
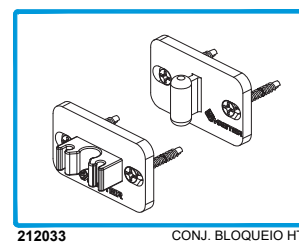


NOTA | NOTE | REMARQUE:

A aplicação do Conj. Calços Nº2 p/ HT 4227 substitui a utilização do calço incluído no Conj. Ponto de Fecho suplementar HT 4227.
The application of the No. 2 Shims Kit for 4227 HT replaces the use of the shim included in the HT 4227 Additional Closing Point Kit.
L'application du Kit de cales Nº2 pour HT 4227 remplace le cale incluse dans les Kits de Point de Fermeture Supplémentaire HT 4227.

MONTAGEM DOS ACESSÓRIOS ACCESSORIES ASSEMBLY ASSEMBLAGE DES ACCESSOIRES

11 - Aplicação do Conj. Bloqueio HT. HT Locking Kit application. Application du Kit de Fermeture HT.

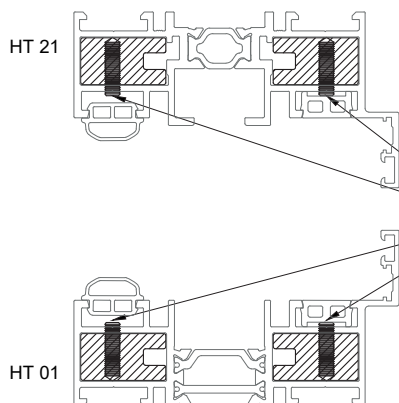
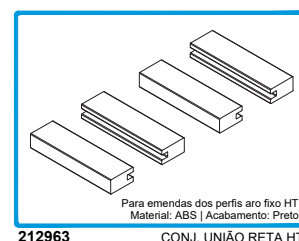


NOTA: Aplicar em cima e em baixo em tipologias com $H > 2,2m$.

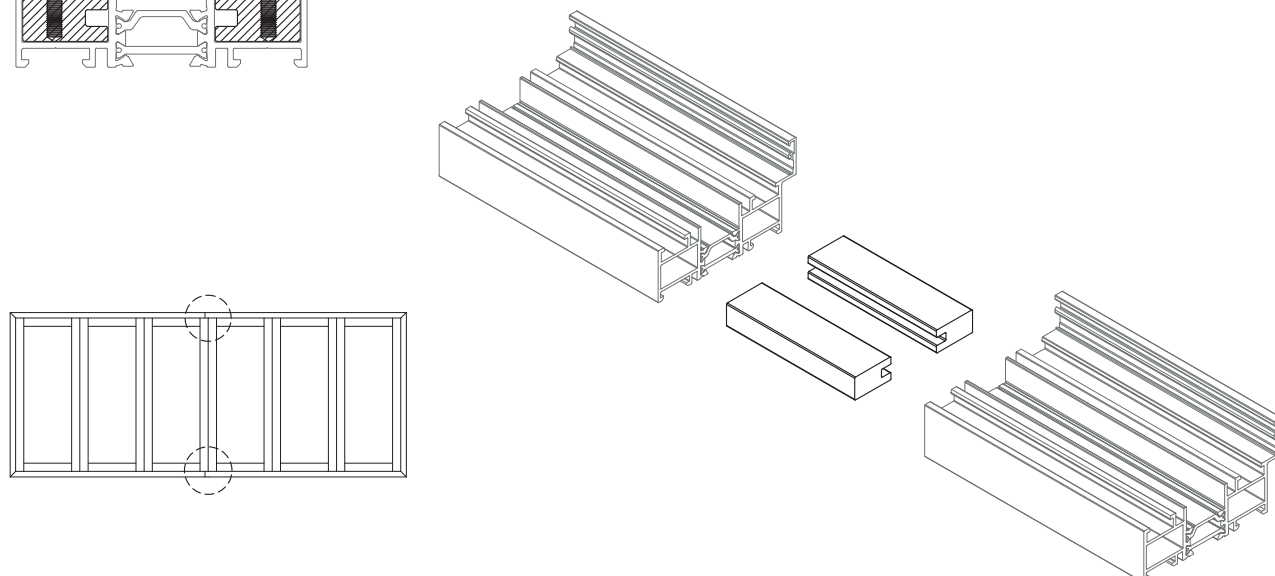
NOTE: Apply on top and bottom in typologies with $H > 2.2m$.

REMARQUE: Appliquer en haut et en bas dans les typologies avec $H > 2,2 m$.

12 - Aplicação dos Conjunto união reta HT. Straight union kits application in fixed frames. Application des Kits d'union droit HT.



PERNOS M4x16 (NÃO INCLUIDOS)
STUDS M4x16 (NOT INCLUDED)
BOULONS M4x16 (NON INCLUS)

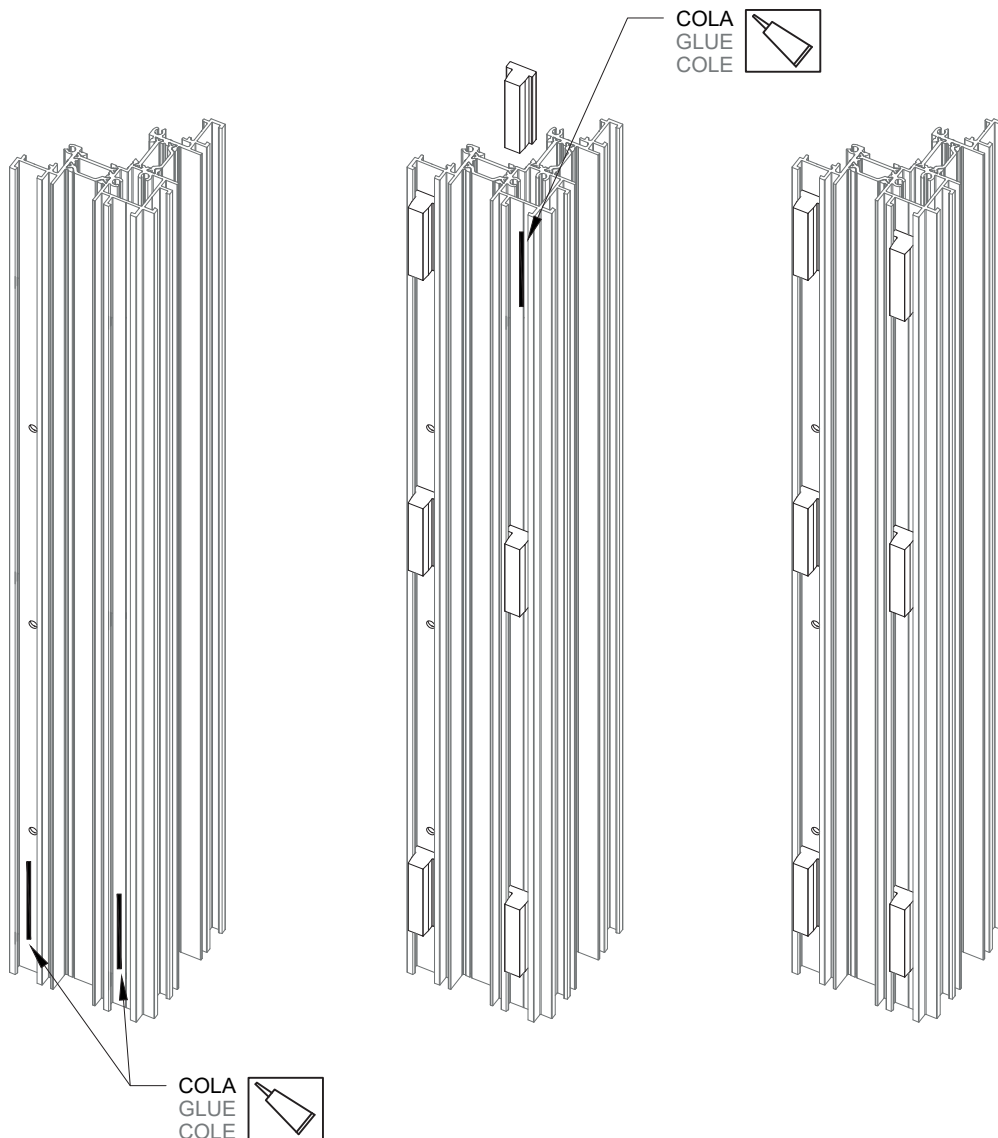
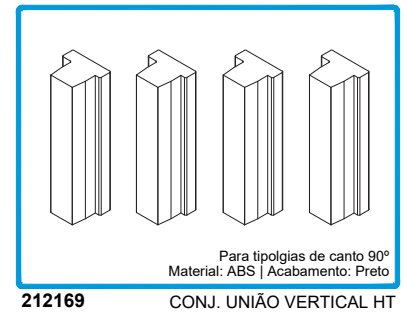
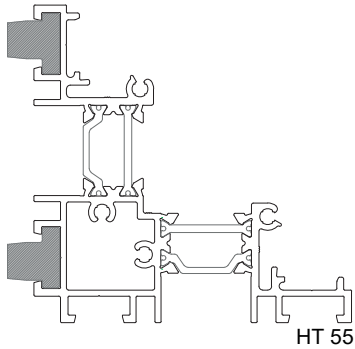


MONTAGEM DOS PERFIS PARA TIPOLOGIAS DE CANTO

PROFILES ASSEMBLY FOR CORNER TYPOLOGIES

ASSEMBLAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

- 1 - Colocação do Conj. união vertical HT no perfil HT 55.
Placement of Conj. HT vertical joint on the HT 55 profile.
Placement de Conj. Joint vertical HT sur le profilé HT 55.



MONTAGEM DOS PERFIS PARA TIPOLOGIAS DE CANTO

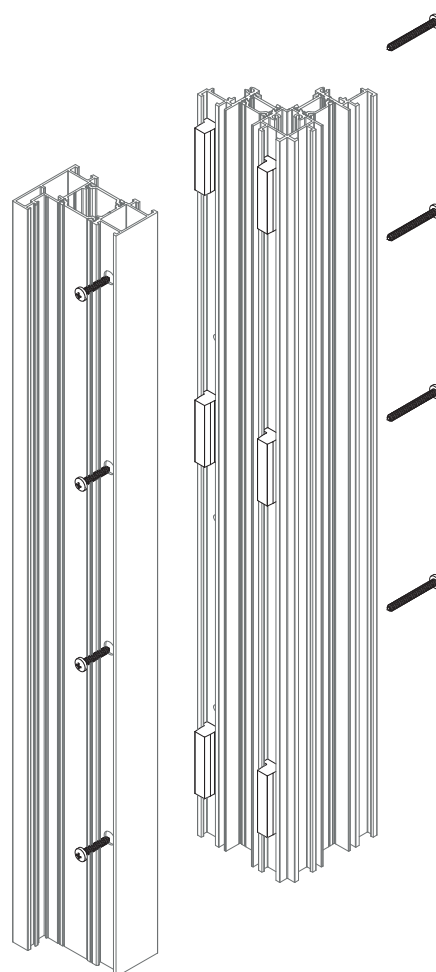
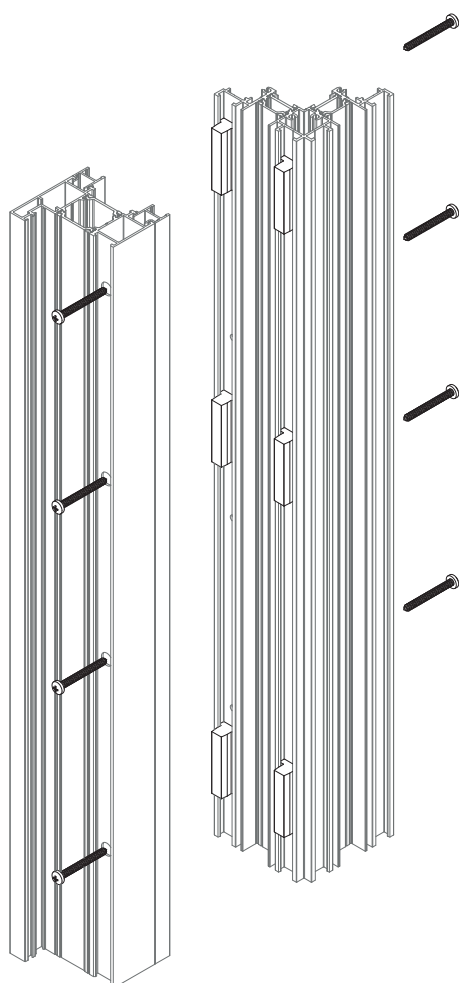
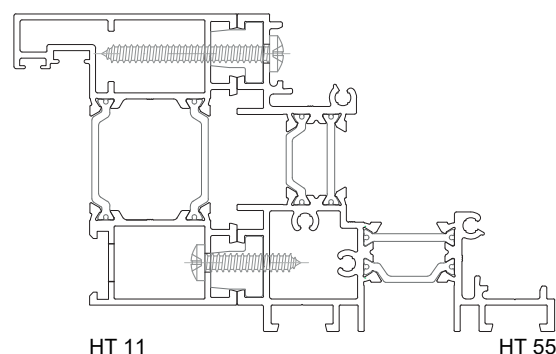
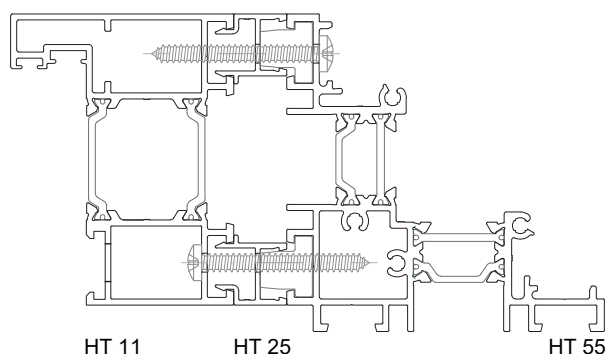
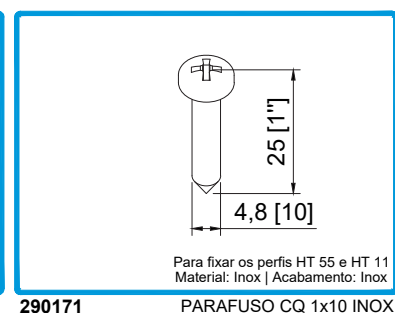
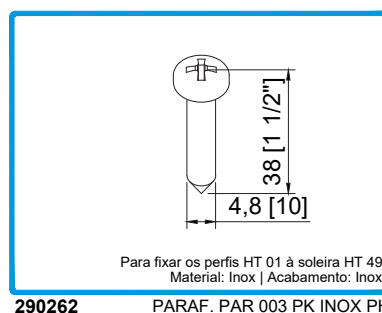
PROFILES ASSEMBLY FOR CORNER TYPOLOGIES

ASSEMBLAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

2 - Fixação dos perfis HT 11, HT 25 e HT 55.
HT 11, HT 25 and HT 55 profiles fixing.
Fixation des profilés HT 11, HT 25 et HT 55.

IMPORTANTE | IMPORTANT | IMPORTANT:

Utilizar no mínimo 8 parafusos para fixação de cada perfil.
Use at least 8 screws to fix each profile.
Utiliser au moins 8 vis pour la fixation du chaque profilé.



MONTAGEM DOS PERFIS PARA TIPOLOGIAS DE CANTO

PROFILES ASSEMBLY FOR CORNER TYPOLOGIES

ASSEMBLAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

3 - Aplicação do perfil capa HT 56.

HT 56 cover profile application.

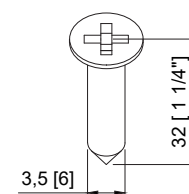
Application du profilé de capot HT 56.

IMPORTANTE | IMPORTANT | IMPORTANT:

Utilizar no mínimo 4 parafusos para fixação do perfil.

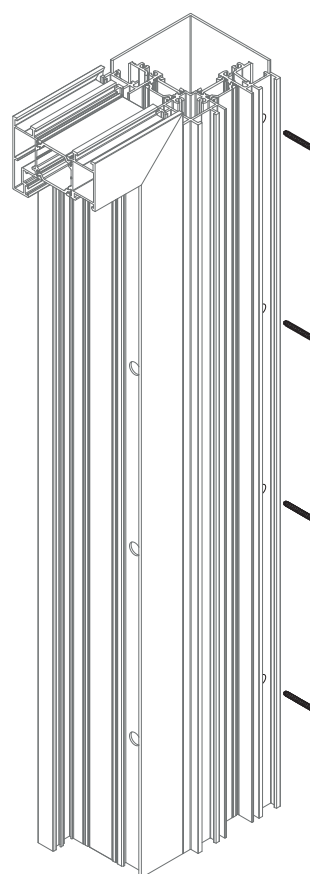
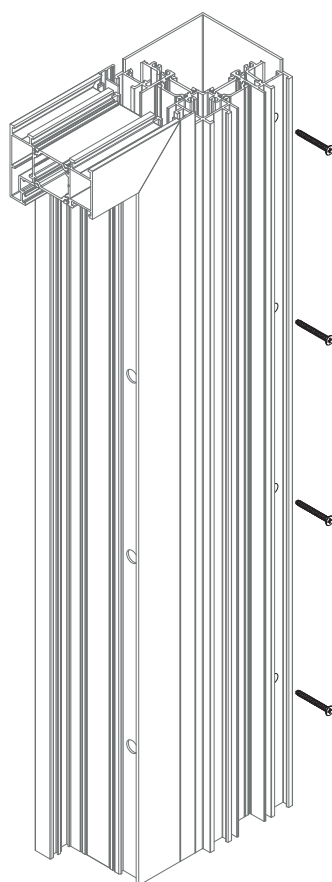
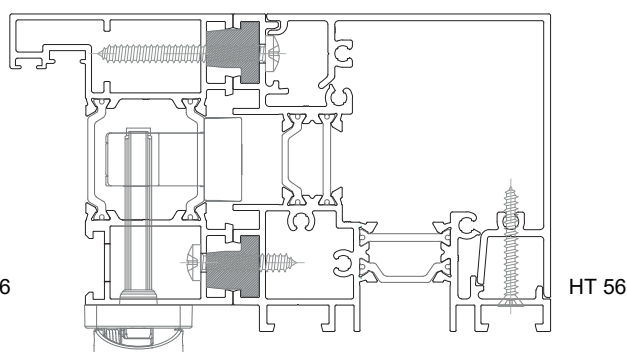
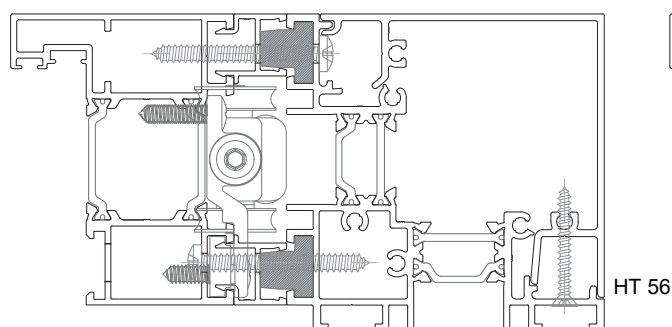
Use at least 4 screws to fix the profile.

Utiliser au moins 4 vis pour la fixation du profilé.



Para o perfil LT 90
Material: Inox | Acabamento: Inox

290080 PARAF. DIN7982 PH 3,5x32 INOX A2



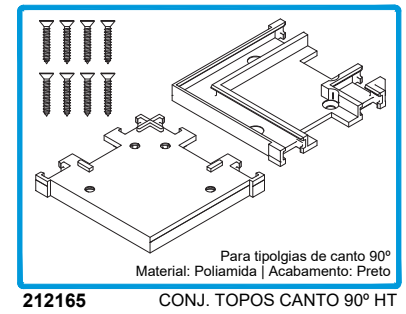
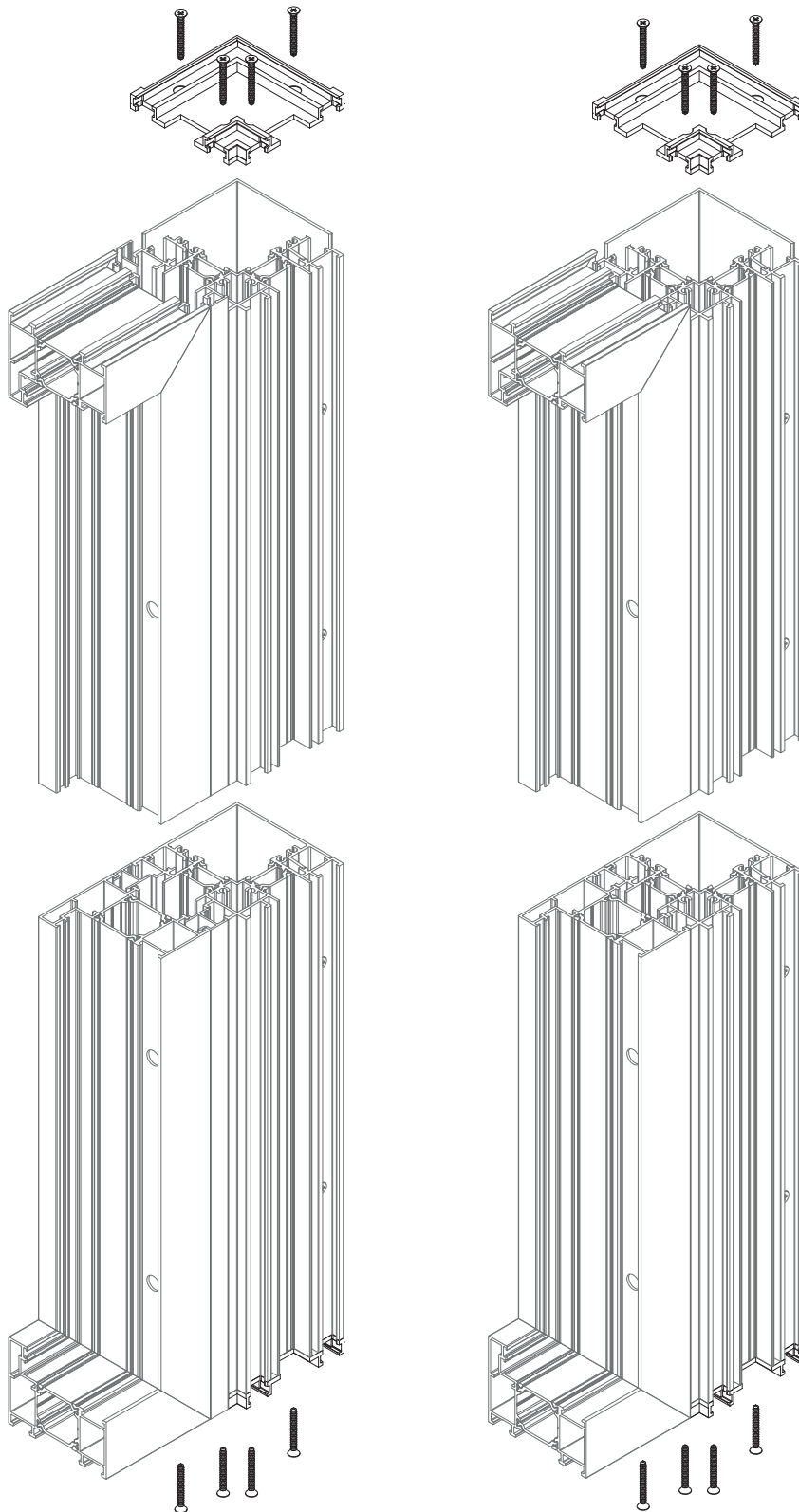
MONTAGEM DOS PERFIS PARA TIPOLOGIAS DE CANTO

PROFILES ASSEMBLY FOR CORNER TYPOLOGIES

ASSEMBLAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

4 - Aplicação do Conj. de topos 90° HT.

HT 90° corner kit end-caps application.
Application du Kit d'embout 90° HT.



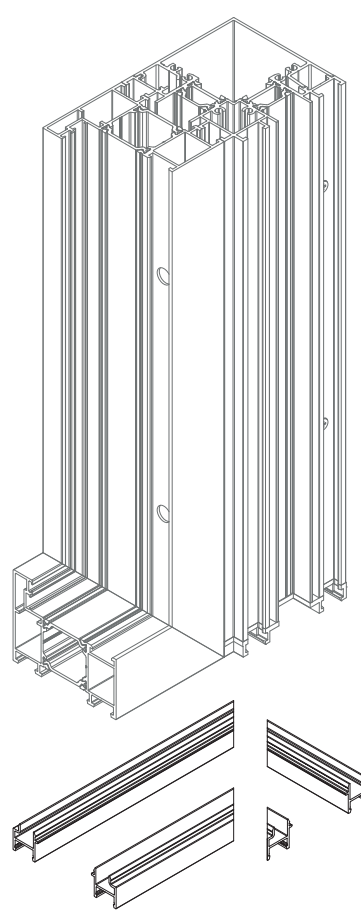
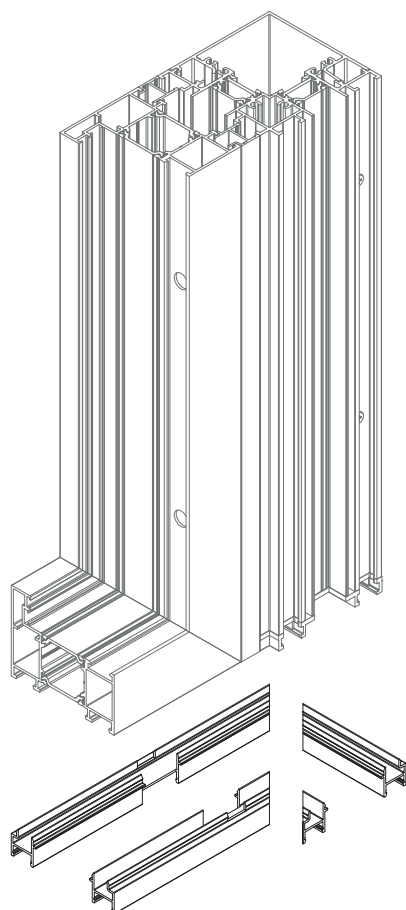
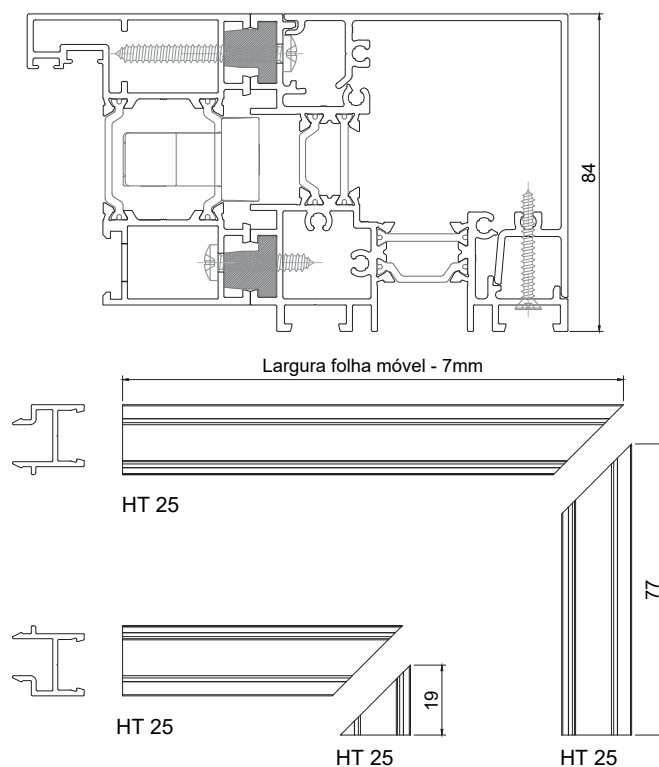
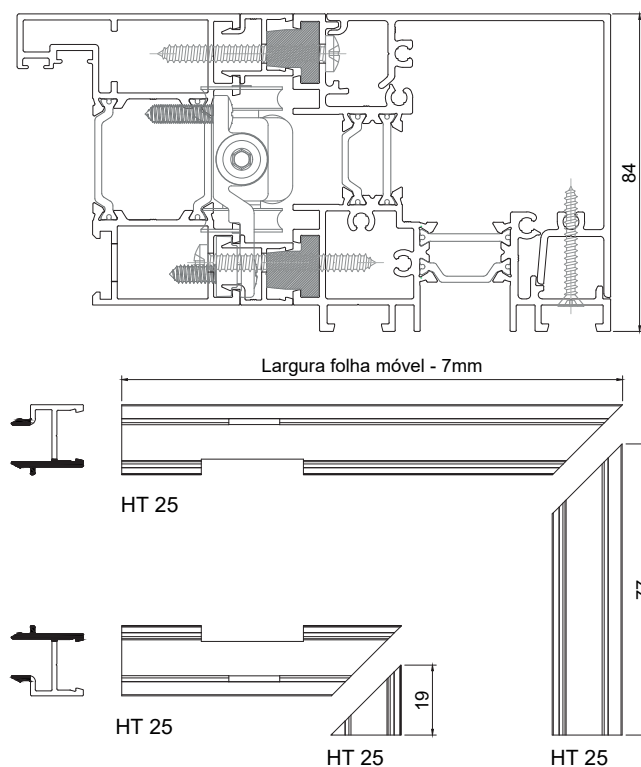
MONTAGEM DOS PERFIS PARA TIPOLOGIAS DE CANTO

PROFILES ASSEMBLY FOR CORNER TYPOLOGIES

ASSEMBLAGE DES PROFILÉS POUR TYPOLOGIES D'ANGLE

5 - Aplicação dos perfis inferiores HT 25.

Bottom HT 25 profiles application.
Application des profilés inférieures HT 25.



VII

ANOTAÇÕES
ANNOTATIONS | REMARQUES

ATUALIZAÇÕES REALIZADAS NESTA VERSÃO UPDATES DONE IN THIS VERSION LES MISES À JOUR EFFECTUÉES DANS CETTE VERSION	
1	Atualizadas as quantidades fornecidas por rolo dos vedantes VD 2126, 2127 e 2128. Updated quantities supplied per roll of VD seals 2126, 2127 and 2128. Quantités mises à jour fournies par rouleau de joints VD 2126, 2127 et 2128.
2	Alterada quantidade de Dobradiça 3 abas HT 8815.12 (ref. 202016) nas tipologias 330 (aberturas interior e exterior) para vãos 3000mm < H < 3500mm. Altered quantity of HT 8815.12 3-leaf hinge (ref. 202016) in types 330 (interior and exterior openings) for spans 3000mm < H < 3500mm. Quantité modifiée de paumelle 3 lames HT 8815.12 (réf. 202016) en types 330 (ouvrants intérieurs et extérieurs) pour portées 3000 mm < H < 3500 mm.
3	Acrescentadas tipologias de cantos (perfis, acessórios, pormenores, maquinações e montagens). Added types of corners (profiles, accessories, details, machining and assemblies). Ajout de types de coins (profils, accessoires, détails, usinage et assemblages).
4	Acrescentadas medidas de corte para todos os perfis, das várias tipologias. Added cutting measures for all profiles, of the various typologies. Mesures de coupe ajoutées pour tous les profils, des différentes typologies.

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