



sistema perimetral reto com corte térmico

straight perimetral system with thermal break

système périmétral droit avec rupture de pont thermique





Características do Sistema

System features

Caractéristiques du système



Este sistema é a resposta para uma arquitetura mais arrojada que não prescinde da volumetria para vencer vãos de grandes dimensões. Consiste num sistema de correr com rutura térmica melhorada (aro fixo: poliamidas 24mm / aro móvel: poliamidas 16mm), desenvolvido de forma a permitir a sua aplicação não só na nova construção como também na renovação de edifícios.

This system is the answer to a more daring architecture that does not obviate the volumetry to overcome large openings. It consists of a sliding system with improved thermal break (fixed frame: 24mm polyamide / mobile frame: 16mm polyamide), developed to allow its application not only in new construction as well as in building renovation.

Ce système est la réponse à une architecture plus audacieuse qui ne dispense pas de la volumétrie à surmonter de grandes portées. Il se compose d'un système coulissant avec rupture de pont thermique amélioré (cadre fixe: polyamide 24mm / châssis mobile: polyamide 16mm), développé pour permettre son application non seulement dans la construction nouvelle mais aussi à la rénovation des bâtiments.

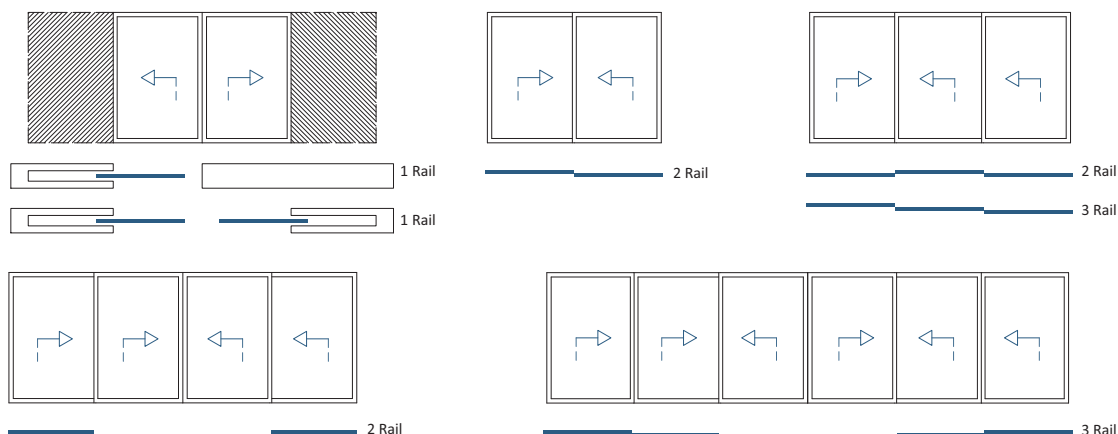
Apresentação:	Reta	
Presentation	Straight	
Présentation	Droite	
Dimensões:	Aros Fixos:	1-rail: 81 mm
Dimensions	Fixed frames	2-rail: 106 mm 114mm 121mm
Dimension	Cadres dormants	3-rail: 175mm 182mm
		4-rail: 236mm
	Aro Móvel:	45mm
	Mobile frame	
	Cadre ouvrant	
Enchimento:	De 24 a 34mm	
Filling	From 24 to 34mm	
Remplissage	De 24 à 34mm	
Cortes:	45° 90°	
Cuts		
Coupes		
Vedação:	Junta em EPDM Pelúcias STOP FIN	
Insulation	EPDM joints STOP FIN plush	
Étanchéité	Joint en EPDM Joints brosse STOP FIN	
Poliamida:	24mm (Aro fixo) 16 mm (Aro móvel)	
Polyamide	24mm (Fixed frame) 16mm (Mobile frame)	
Barretes	24mm (Cadre dormant) 16mm (Cadre ouvrant)	
Ferragens:	Sistema Elevador Multiponto (Vedação perimetral em juntas de E.P.D.M.)	
Hardware	Sistema Multiponto de 300mm(1P), 600mm (2P), 1000mm (2P), 1600mm (4P)	
	Multipoint Lifting System (Perimetral sealant in E.P.D.M. gaskets)	
Accessoires	Multipoint System 300mm(1P), 600mm (2P), 1000mm (2P), 1600mm (4P)	
	Système Élévateur Multipoint (Joints périphériques d'étanchéité à E.P.D.M.)	
	Système Multipoint de 300mm(1P), 600mm (2P), 1000mm (2P), 1600mm (4P)	
Peso máximo:	200 Kg/folha (JE normal) 250Kg/folha (JE elevável)	
Maximum weight	200 Kg/leaf (JE normal) 250Kg/leaf (JE lifting)	
Poids maximale	200Kg/vantail (JE normal) 250Kg/vantail (JE élévatoire)	
Área máxima:	5,00m²/folha	
Maximum area	5,00m ² /leaf	
Aire maximale	5,00m ² /vantail	
Altura máxima:	2,80m/folha	
Maximum height	2,80m/leaf	
Hauteur maximale	2,80m/vantail	
Acabamentos:	Lacados Anodizados Bicolores	
Finishes	Powder coating Anodizing Bicolour	
Finitions	Laqué Anodisé Bicolore	



Licença nº. 1406 - Metalferr
Licença nº. 1411 - Alfa Sul



Licença nº. 809



Desempenho do sistema

System performance

Performance du système

Marcação CE

CE Marking

Marquage CE

NP EN 14351-1

Janela de 2 folhas com 1.475x1.225m

Vidro : 8 + 16 + 6

2 leaves window 1.475 x 1.225m

Glass: 8 + 16 + 6

Fenêtre 2 vantaux 1.475 x 1.225m

Verre: 8 + 16 + 6

Janela 2 folhas com 3.50x2.50m

Vidro : 8 + 16 + 6

2 leaves window 3.50 x 2.50m

Glass: 8 + 16 + 6

Fenêtre 2 vantaux 3.50m x 2.50m

Verre: 8 + 16 + 6

Permeabilidade ao AR

AIR Permeability

Perméabilité à l'AIR

3

4

Estanquidade à ÁGUA

WATER Tightness

Étanchéité à l'EAU

7A

6A

Resistência ao VENTO

WIND Resistance

Résistance au VENT

C5

B2

Coef. Transm. TÉRMICA

THERMAL Transmittance

Coef. de Transmission THERMIQUE

Uw = 1,82 W/m² K

Ug = 1,1W/m² K (Janela 2 folhas com 2.20x2.40m)

Ug = 1,1W/m²K (2 leaves window with 2.20x2.40m)

Ug = 1,1W/m²K (Fenêtre de 2 vantaux avec 2.2x2.40m)

Isolamento ACÚSTICO

ACOUSTIC Insulation

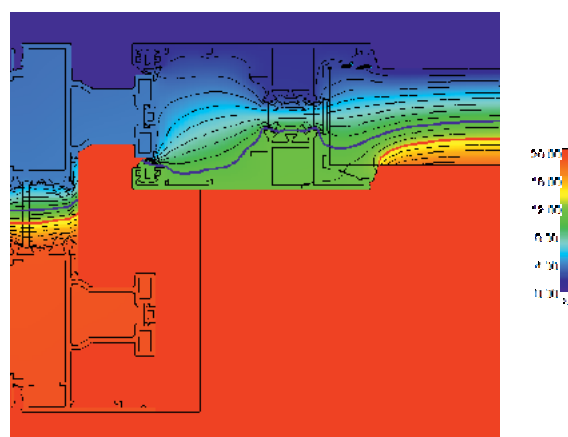
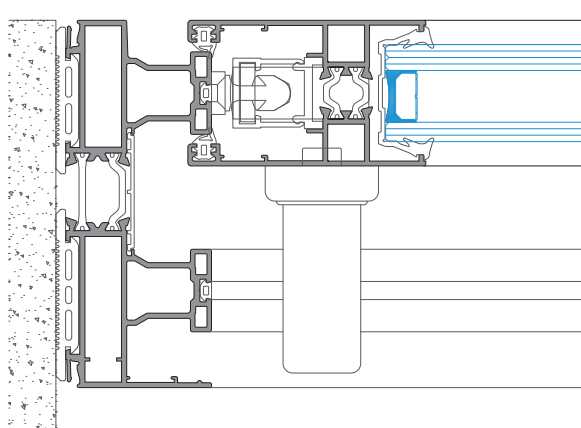
Isolation ACOUSTIQUE

Rw janela(dB)= 30dB

Rw (IGU) = 36dB, área ≤ 2,70m²

Rw (IGU) = 36dB, aire ≤ 2,70m²

Rw (IGU)=36dB, aire ≤ 2,70m²





5

Listagem de perfis

Profiles list

Liste des profils

13

Acessórios

Accessories

Accessoires

21

Pormenores de montagem

Assembly details

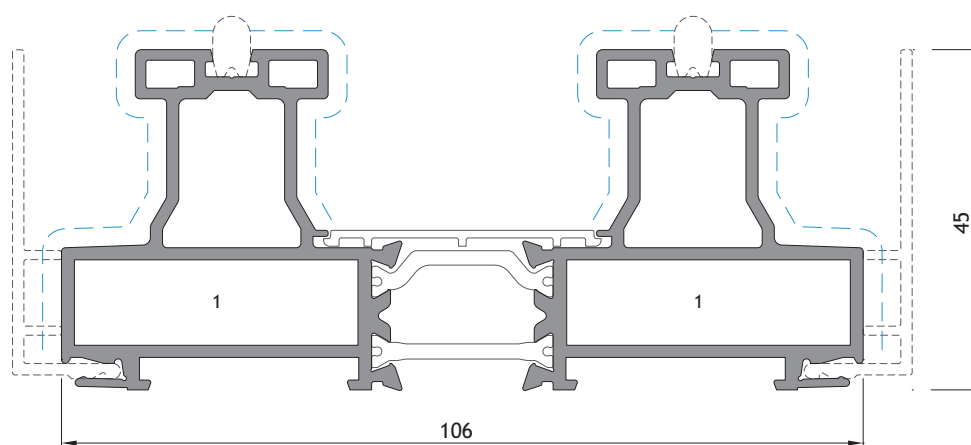
Détails d'assemblage



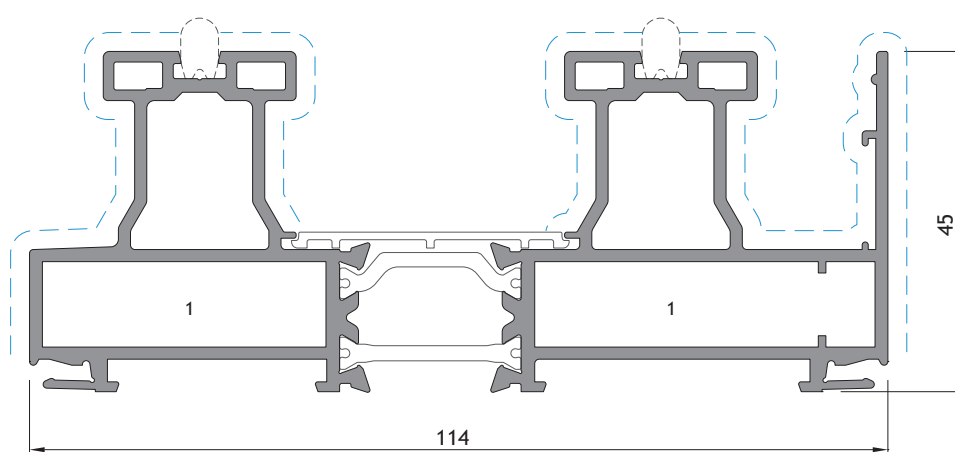
Listagem de perfis

Profiles list

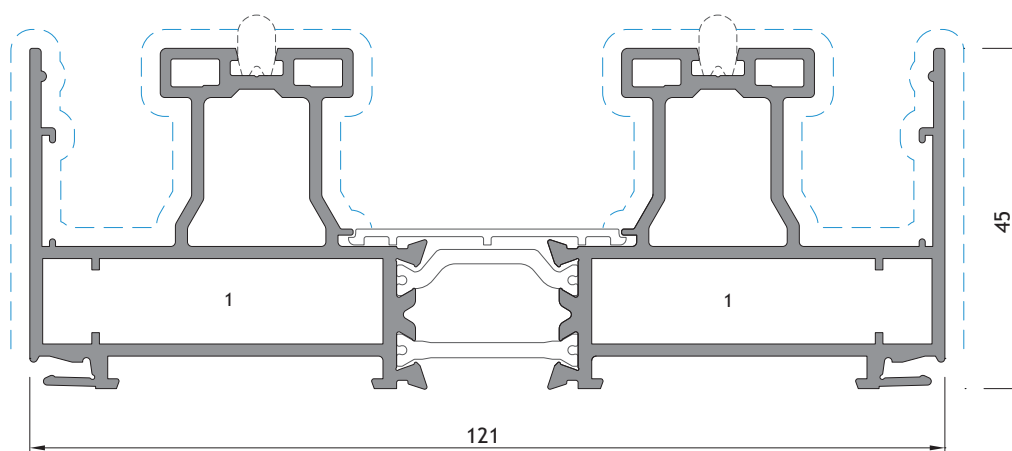
Liste des profils



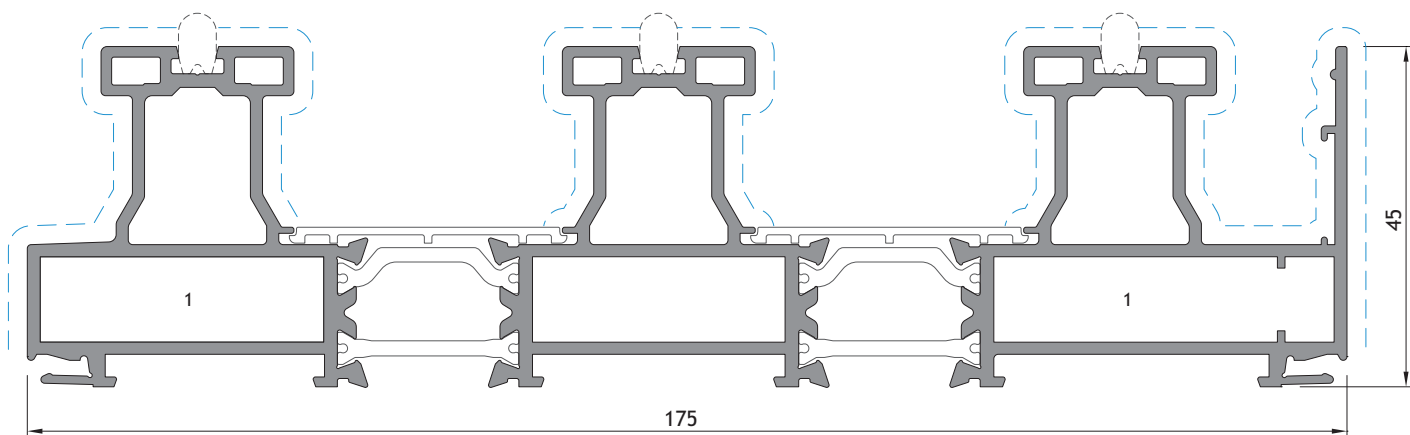
JE 01



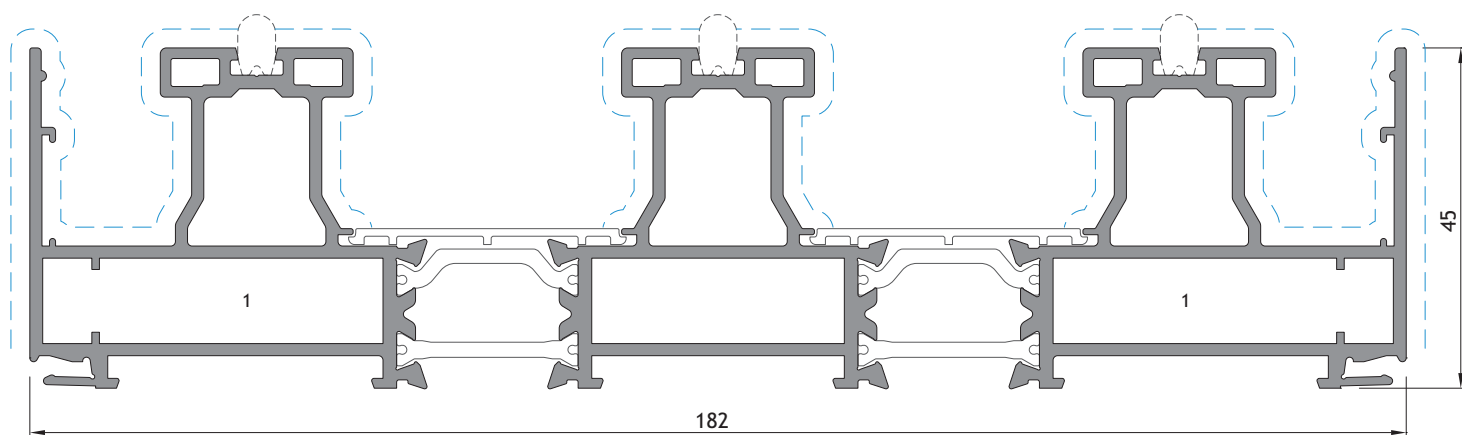
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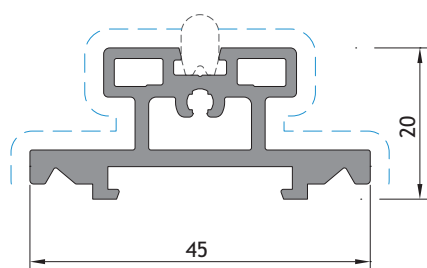
JE 05



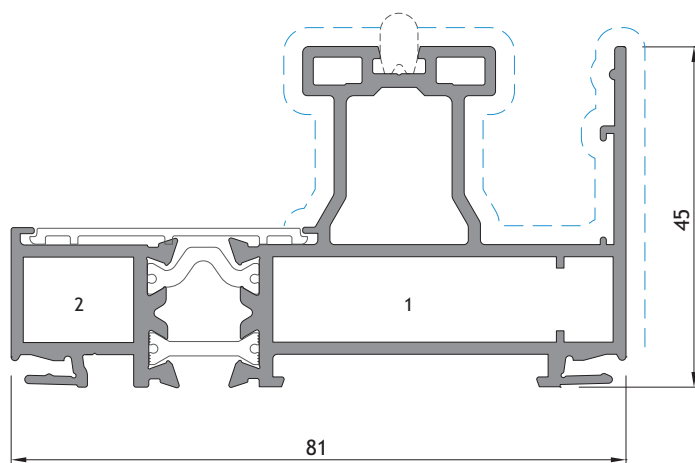
JE 73



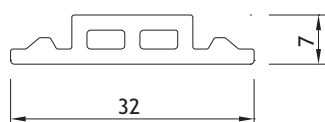
JE 72



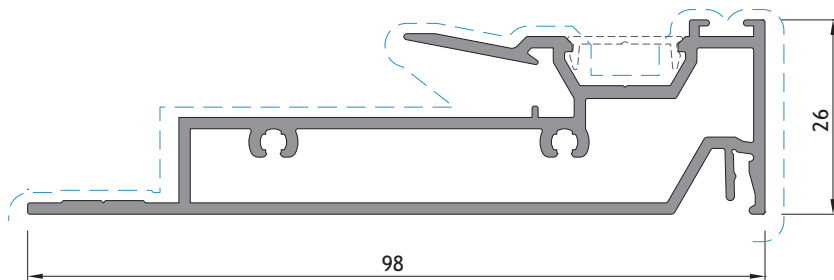
JE 42



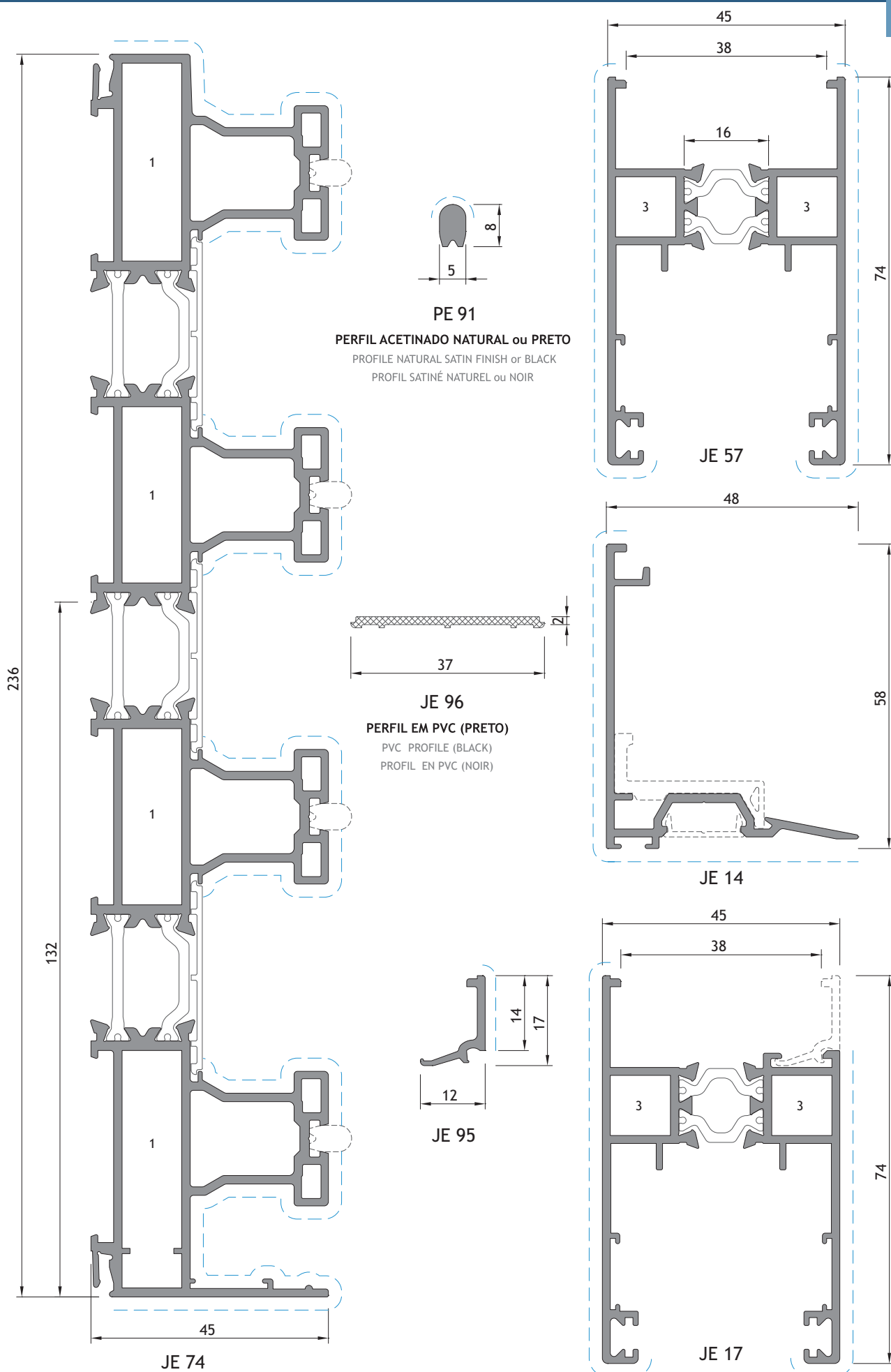
JE 64

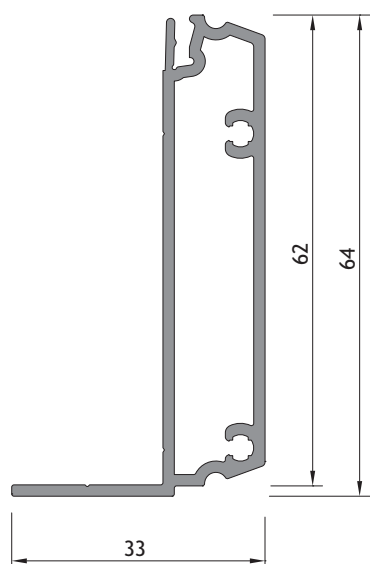


RT 010
(EPDM 90 Shore)

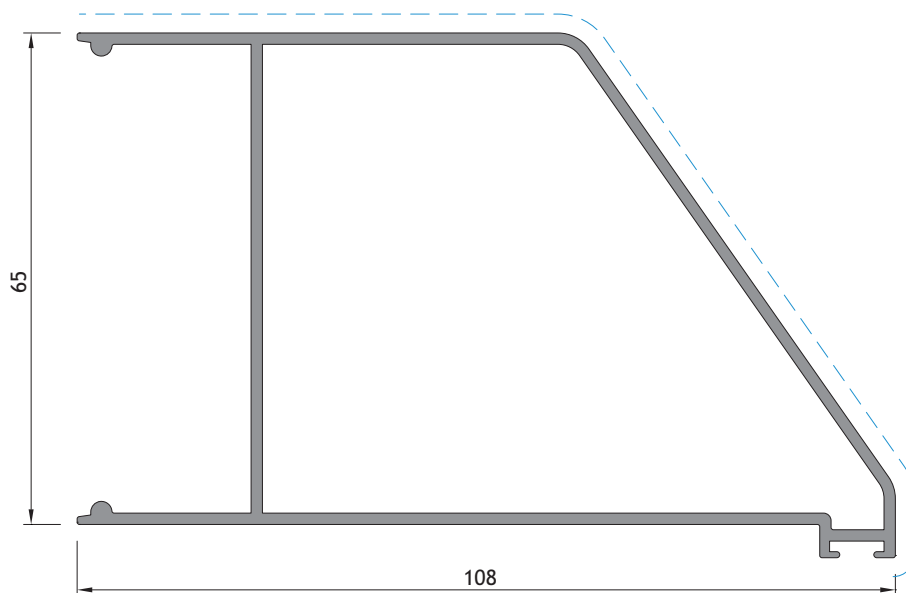


JE 61

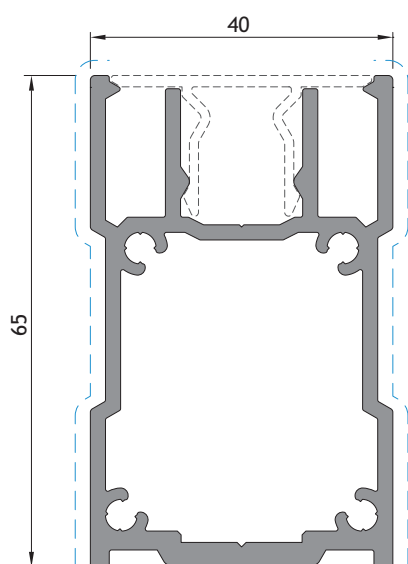




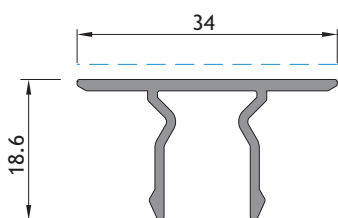
JE 62



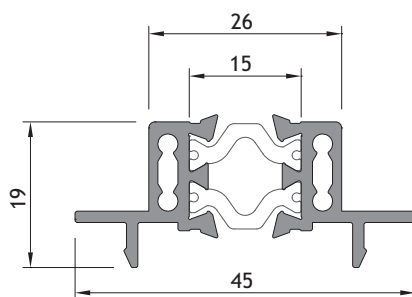
JE 63



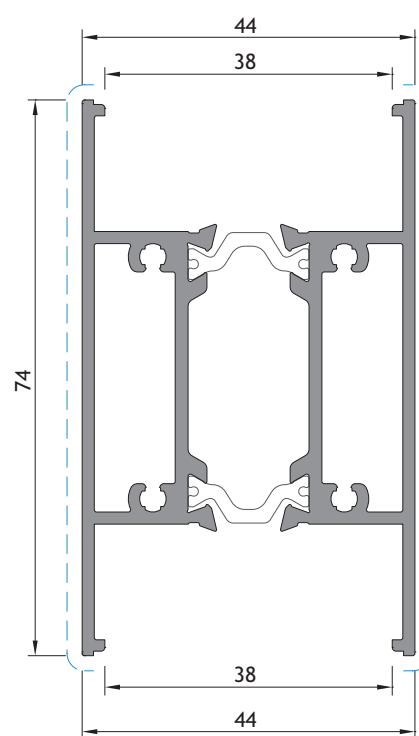
JE 25



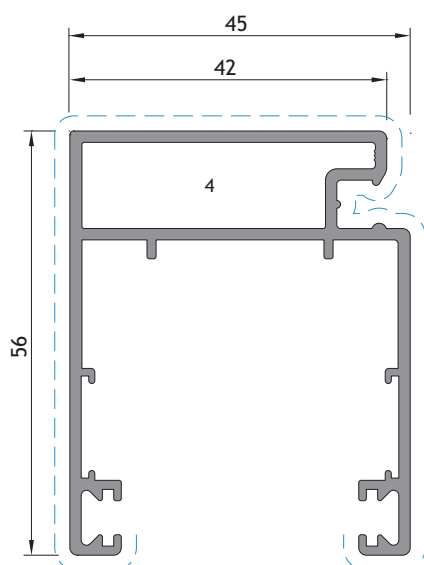
JE 26



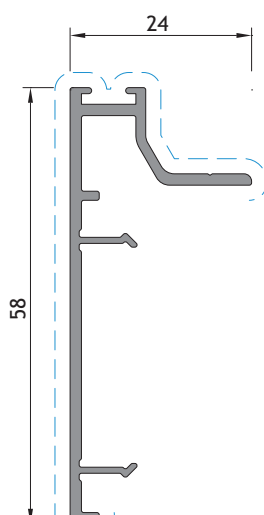
JE 27



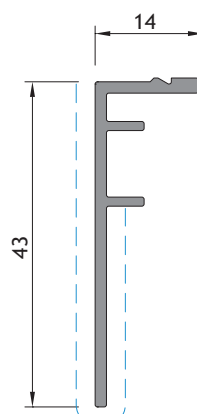
JE 18



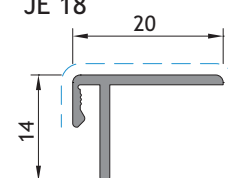
JE 47



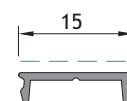
JE 48



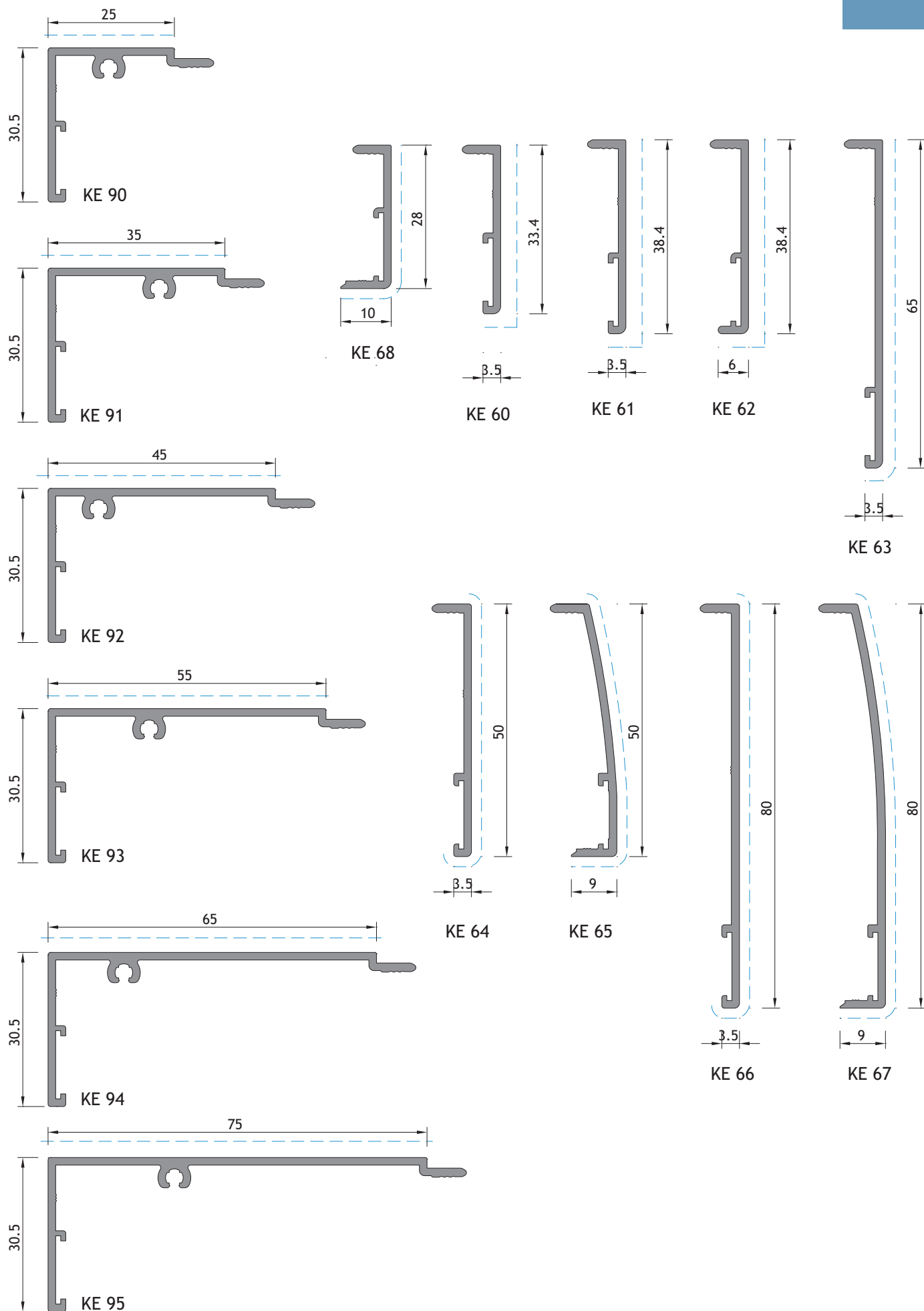
JE 80

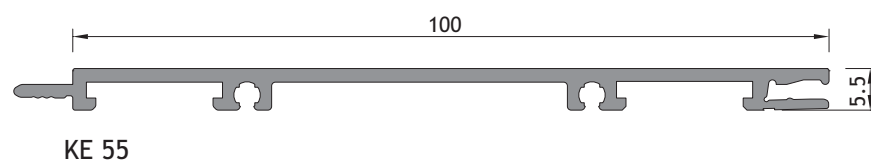
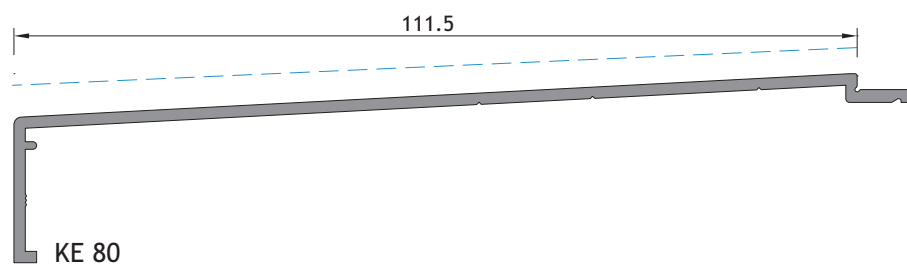
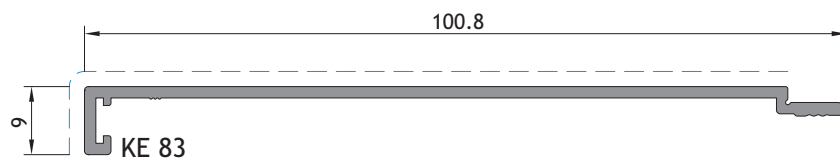
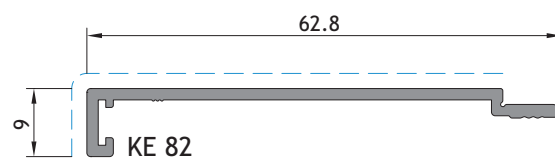
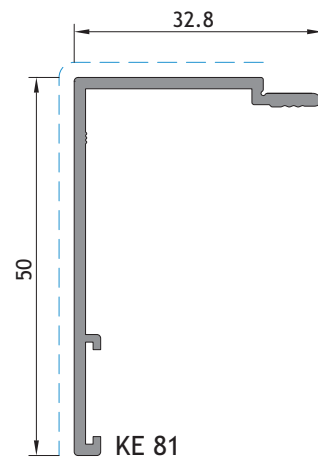


SP 81



AT 30







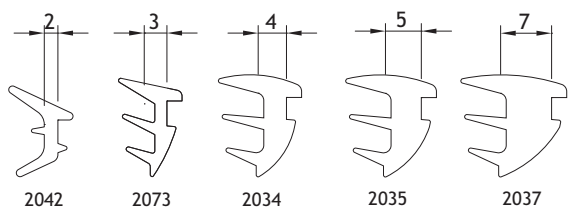
Acessórios

Accessories

Accessoires







Material: EPDM
Rolo: 200m

208191 JUNTA DE CUNHA 2042
208195 JUNTA DE CUNHA 2034

208196 JUNTA DE CUNHA 2035
208904 JUNTA DE CUNHA 2037
208199 JUNTA DE CUNHA 2073



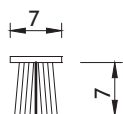
Material: EPDM
Rolo: 200m

208298 JUNTA DE ESTANQUICIDADE 2065



Material: EPDM
Rolo: 200m

208414 JUNTA TAPA-CANAL 2026



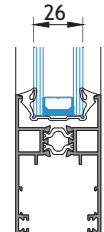
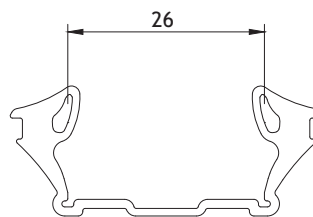
Rolo: 500m

208460 JUNTA PELÚCIA 7x7 STOP-FIN



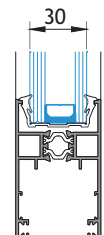
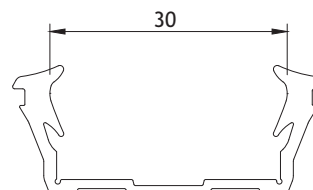
Para o perfil JE 47
Material: PVC
(Rolo: 100m)

208310 VEDANTE MOSQUITEIRA 1027 Pr.



Material: EPDM
Rolo: 100m

208141 JUNTA DE VIDRO 2081 SÉRIE JE CX 26mm Pr.



Material: EPDM
Rolo: 100m

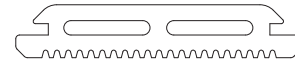
208299 JUNTA DE VIDRO U 2066 COM CAIXA DE 30mm



VD 2086: Para os perfis JE 01, JE 02, JE 05 e JE 73 (Caixa: 50m)



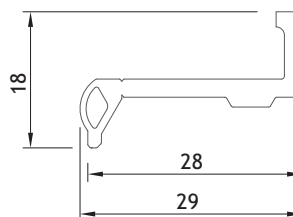
VD 2087: Para os perfis JE 01, JE 02, JE 05, JE 64, JE 72 e JE 73 (Caixa: 50m)



VD 2088: Para os perfis JE 72 e JE 73 (Caixa: 50m)

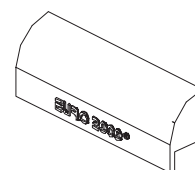
208909
208910
208911

JUNTA VD 2086
JUNTA VD 2087
JUNTA VD 2088

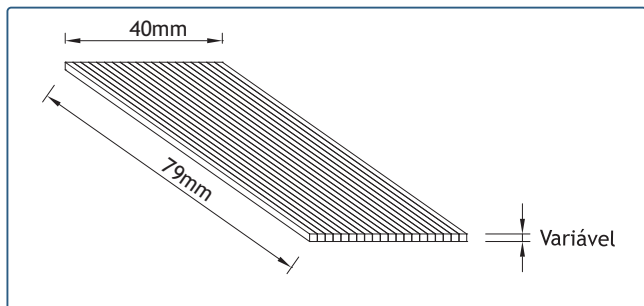


Material: E.P.D.M.
Rolo: 100m

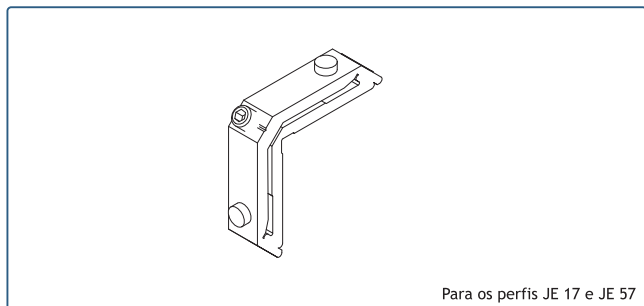
208300 JUNTA CENTRAL 2096



210280 GOTEIRA C/VÁLVULA SOS (Pr./Br.)

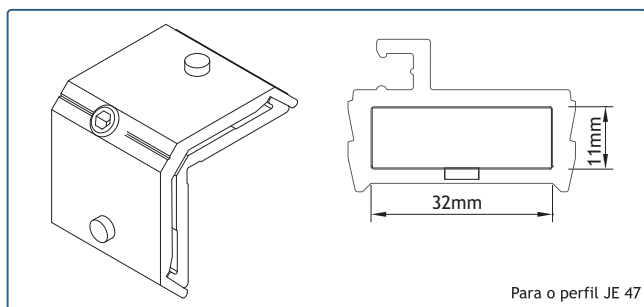


218113 CALÇO P/VIDRO 79x40x2 218111 CALÇO P/VIDRO 79x40x4
218109 CALÇO P/VIDRO 79x40x3 218112 CALÇO P/VIDRO 79x49x5



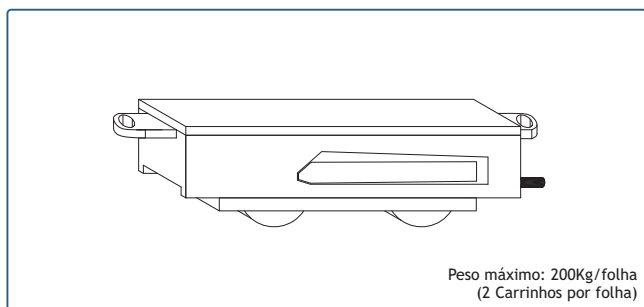
Para os perfis JE 17 e JE 57

204901 ESQUADRO 18-1112-C JE



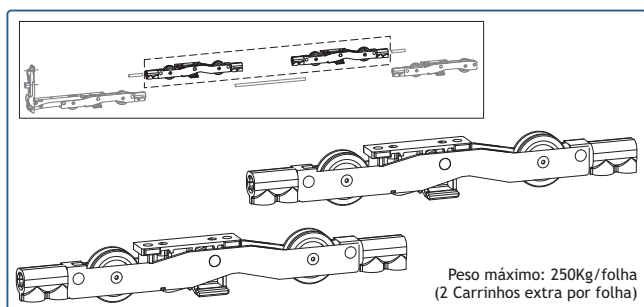
Para o perfil JE 47

204149 ESQUADRO 18-3112-C



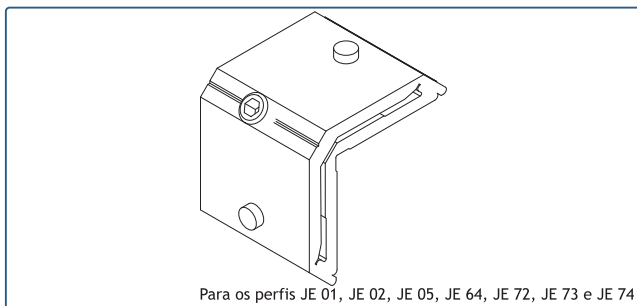
Peso máximo: 200Kg/folha
(2 Carrinhos por folha)

205105 CARRINHOS JE 100 Kg



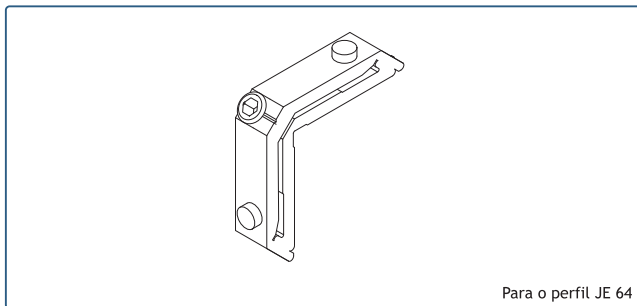
Peso máximo: 250Kg/folha
(2 Carrinhos extra por folha)

212140 CONJUNTO CARRINHOS JE P/250Kg



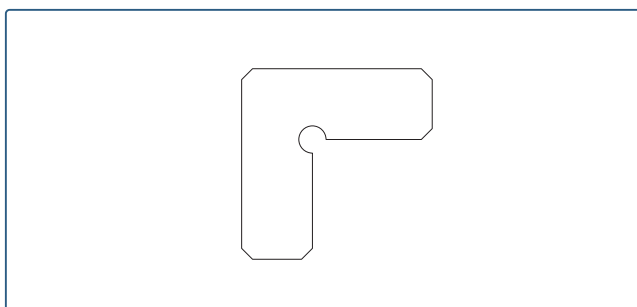
Para os perfis JE 01, JE 02, JE 05, JE 64, JE 72, JE 73 e JE 74

204155 ESQUADRO 18-3712 C

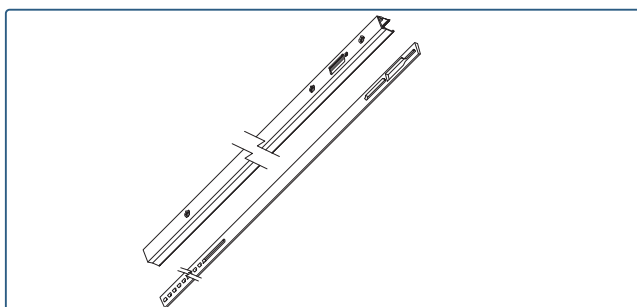


Para o perfil JE 64

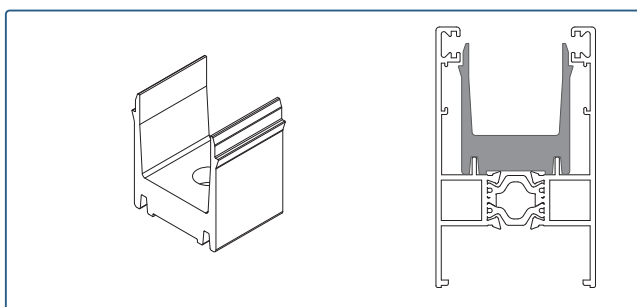
204851 ESQUADRO 18-1412 C



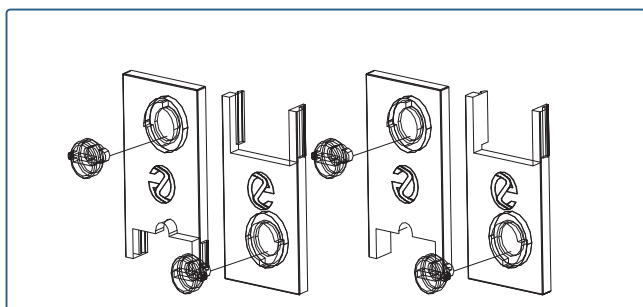
213246 CANTO CR 5/SB



211099 BARRA PROLONGADOR

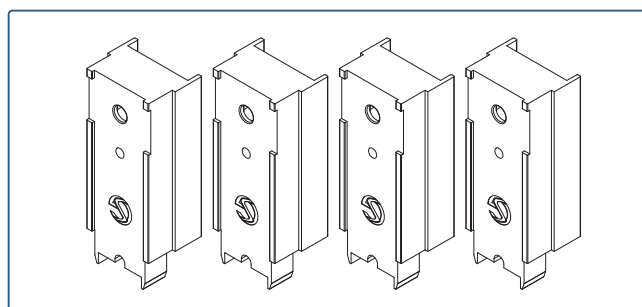


207093 GUIA SUPERIOR JE



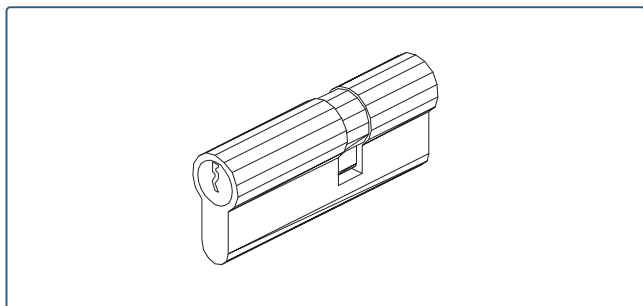
212102

CONJUNTO GUIAS JE



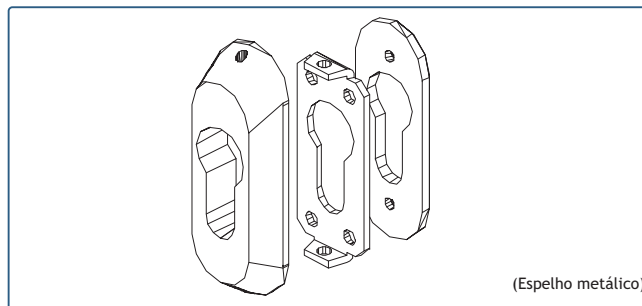
212056

CONJUNTO GUIA COM AMORTECEDOR JE



230040

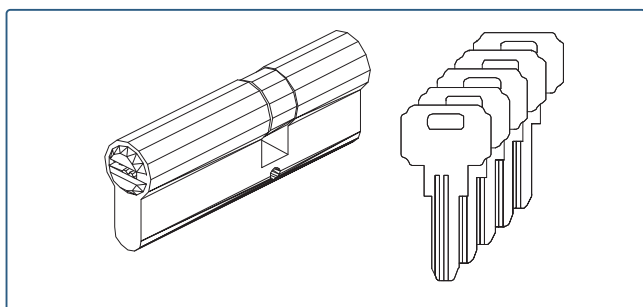
SEGRED 30/45 (INCLUI 3 CHAVES)



220008

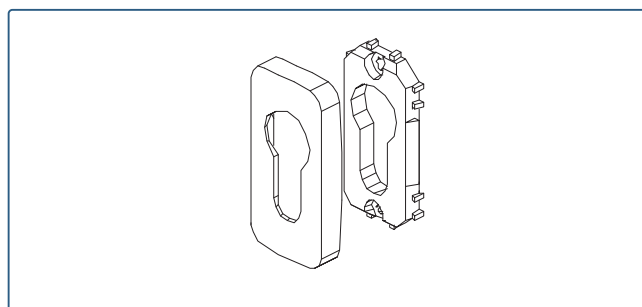
ESPELHO PARA SEGURANÇA 5100 (Pr.)

(Espelho metálico)



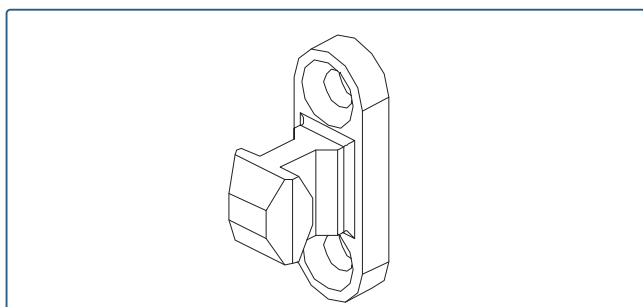
230004

SEGRED DE SEGUR. SA/AT (INCLUI 5 CHAVES)



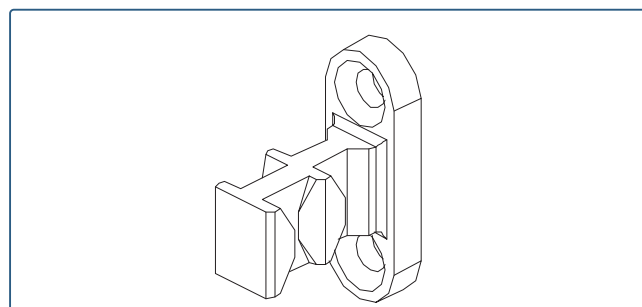
220190

ESPELHO 874.801 (Br./Pr.)



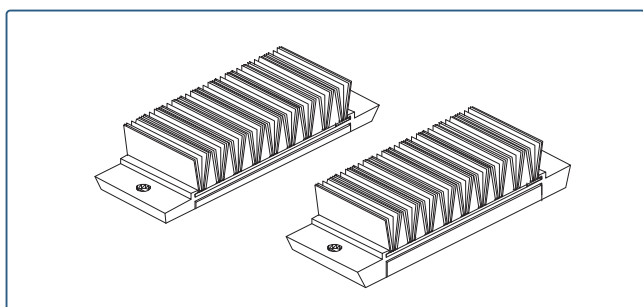
211020

PONTO DE FECHO SIMPLES PE



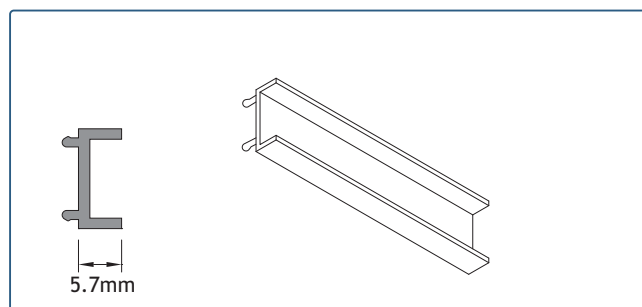
211021

PONTO DE FECHO DUPLO PE



212103

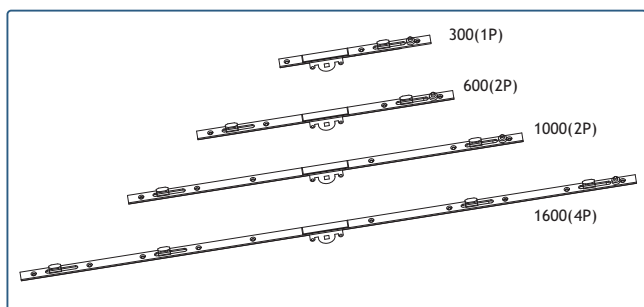
CONJ. CORTA-VENTO SUP. E INF. JE



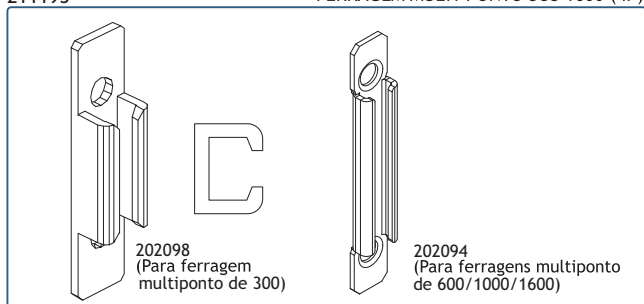
218128

CALÇO PARA FERRAGEM ELEVÁVEL JE

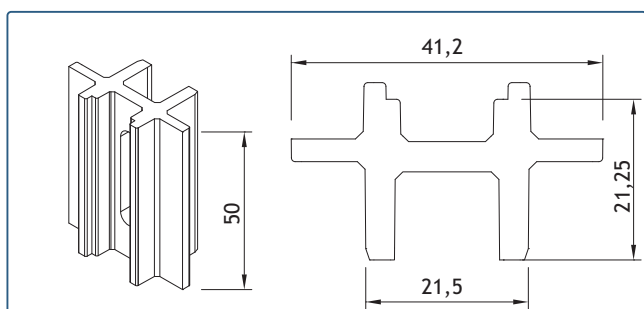
5.7mm



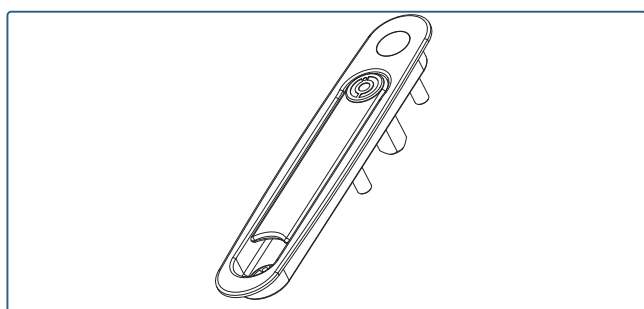
211205 FERRAGEM MULTI-PONTO 300 (1P)
211191 FERRAGEM MULTI-PONTO SOS 600 (2P)
211192 FERRAGEM MULTI-PONTO SOS 1000 (2P)
211193 FERRAGEM MULTI-PONTO SOS 1600 (4P)



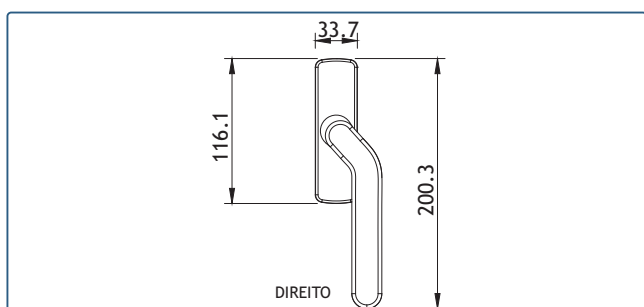
202098 CONTRA-FECHO MULTI-PONTO 300 (1P)
202094 CONTRA-FECHO MULTI-PONTO SOS



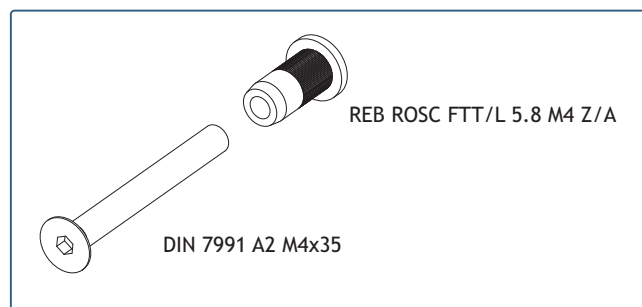
218117 CALÇO P/ FERRAGEM MULTI-PONTO JE



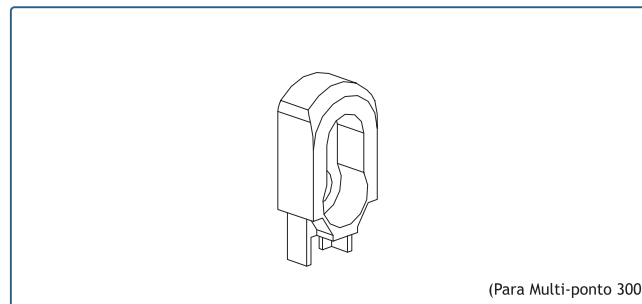
201467 FECHO DE EMBUTIR PARA MULTIPONTO CB-400



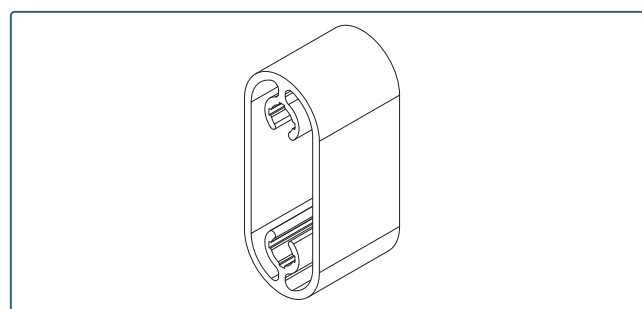
200959 CREMONE MULTI-PONTO DESVIADO - DIREITO



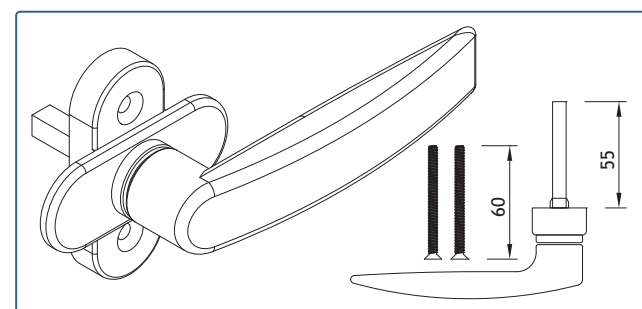
212017 CONJUNTO FIXAÇÃO FERRAGEM MULTI-PONTO



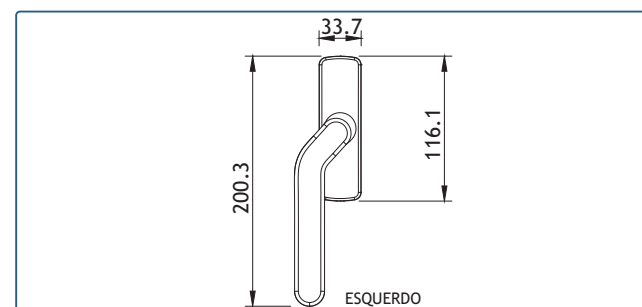
215060 PEÇA ANTI-LEVANTAMENTO MULTI-PONTO



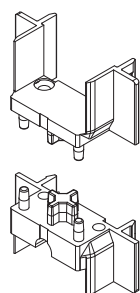
X-00 CALÇO X-00



200025 PUXADOR SOS 608L

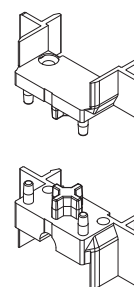


200939 CREMONE MULTI-PONTO DESVIADO - ESQUERDO



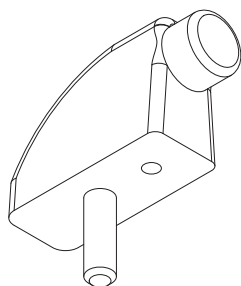
CONJUNTO N°1
(Elevável/Não Elevável)

212051 CONJUNTO N°1 TOPO JE-27 (3 / 4 FOLHAS - Elevável/Não Elevável)



CONJUNTO N°2
(Não Elevável)

212053 CONJUNTO N°2 TOPO JE-27 (3 / 4 FOLHAS-Não Elevável)



214164

BATENTE TOPEHSN



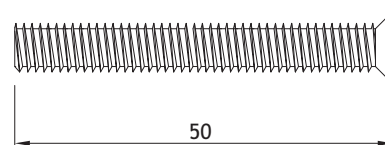
290260

PARAFUSO PAR 001 1/2x8 INOX CQ



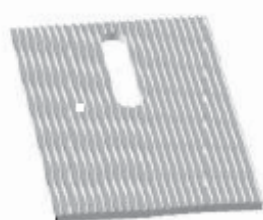
230019

SUPORE DE FIXAÇÃO 120m



290028

PARAFUSO P/ PUXADOR DE JANELA



218116

CALÇO SEPARADOR (50x70mm)



213240

ÂNGULO DE FIXAÇÃO 120m



Limpeza de alumínio lacado ou anodizado
Para preparação das zonas a serem unidas e limpeza final

208704

PRODUTO DE LIMPEZA DE ALUMÍNIO (1L) Transparente

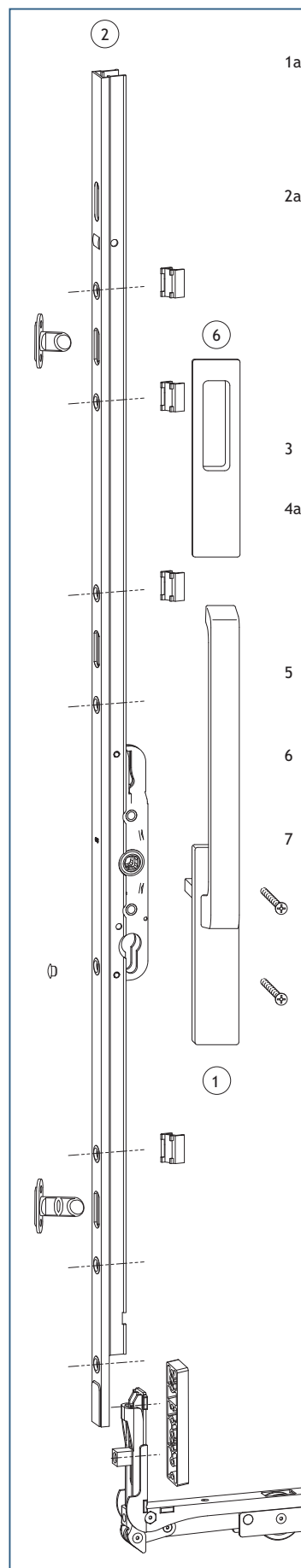


Junta de vedação elástica, resistente aos UV
Impede a corrosão de penetrar pelas zonas cortadas

208019

SELA JUNTAS 150gr. (Cinza)

ACESSÓRIOS DA FERRAGEM ELEVATÓRIA 200Kg



1a

200407	CREMONE S/PE (Branco) CREMONE S/PE (Preto) CREMONE S/PE (Natural) CREMONE S/PE (P/outras cores)
--------	--

1b

(opção b)	
200161	CREMONE JE/PE DIRIGENT (Branco) CREMONE JE/PE DIRIGENT (Preto) CREMONE JE/PE DIRIGENT (Natural) CREMONE JE/PE DIRIGENT (outras cores)

2a

211152	FERRAGEM CREMONE H2140 (834-1379mm) Natural FERRAGEM CREMONE H2140 (834-1379mm) Preto
211153	FERRAGEM CREMONE H2190 (1249-1879mm) Natural FERRAGEM CREMONE H2190 (1249-1879mm) Preto
211154	FERRAGEM CREMONE H2240 (1879-2379mm) Natural FERRAGEM CREMONE H2240 (1879-2379mm) Preto
211155	FERRAGEM CREMONE H2280 (2129-2779mm) Natural FERRAGEM CREMONE H2280 (2129-2779mm) Preto

2b

(opção b) (*)	
211149	FERRAGEM CREMONE C2170 Preto FERRAGEM CREMONE C2170 Natural
211150	FERRAGEM CREMONE C2220 Preto FERRAGEM CREMONE C2220 Natural
211151	FERRAGEM CREMONE C2260 Preto FERRAGEM CREMONE C2260 Natural

3

212055	CONJ. CARRINHOS ELEVADORES JE
--------	-------------------------------

4a

215022	BARRA DE LIGAÇÃO L110 (785-1684mm)
215023	BARRA DE LIGAÇÃO L140 (1685-1934mm)
215024	BARRA DE LIGAÇÃO L180 (1935-2434mm)
215025	BARRA DE LIGAÇÃO L330 (2435-3384mm)

4b

(opção b) (*)	
215198	BARRA DE LIGAÇÃO BU150T
215200	BARRA DE LIGAÇÃO BU200T
215205	BARRA DE LIGAÇÃO BU250T
215020	BARRA DE LIGAÇÃO BU335T

5

214164	BATENTE TOPEHSN (Branco) BATENTE TOPEHSN (Preto)
--------	---

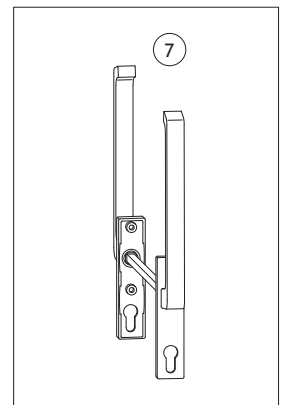
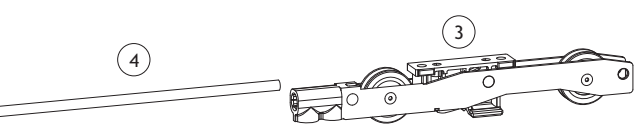
6

299010	CONCHA 11mm JE (Branco) CONCHA 11mm JE (Preto)
--------	---

7

200409	CREMONE DUPLO S/ PE (Branco) CREMONE DUPLO S/ PE (Preto)
--------	---

NOTA: (*) Obriga à utilização de todas as restantes ferragens da mesma marca.
(Ferragem cremone; Conj. carrinhos elevadores JE; Barra ligação)



Pormenores de montagem

Assembly details
Détails d'assemblage

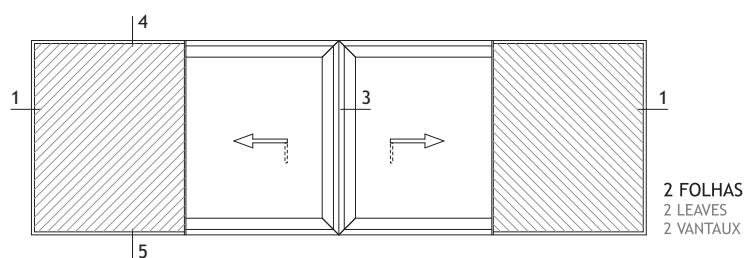
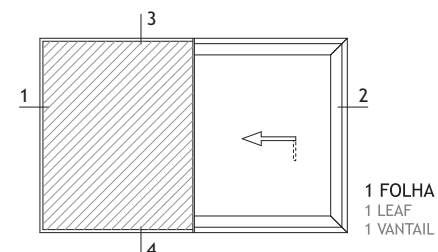




JANELA DE CORRER DE EMBUTIR

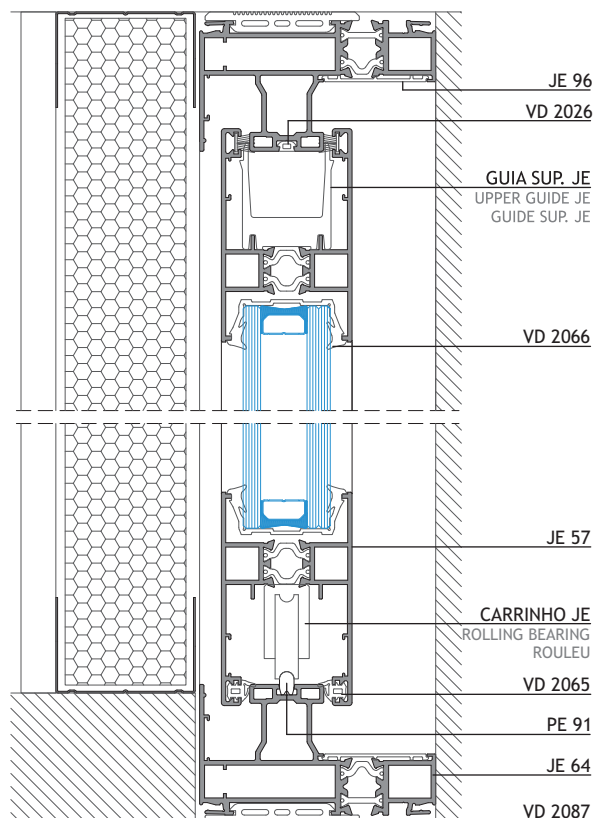
HIDDEN SLIDING WINDOW

FENÊTRE COULISSANTE À GALANDAGE



3

4



JE 96

VD 2026

GUIA SUP. JE
UPPER GUIDE JE
GUIDE SUP. JE

VD 2066

JE 57

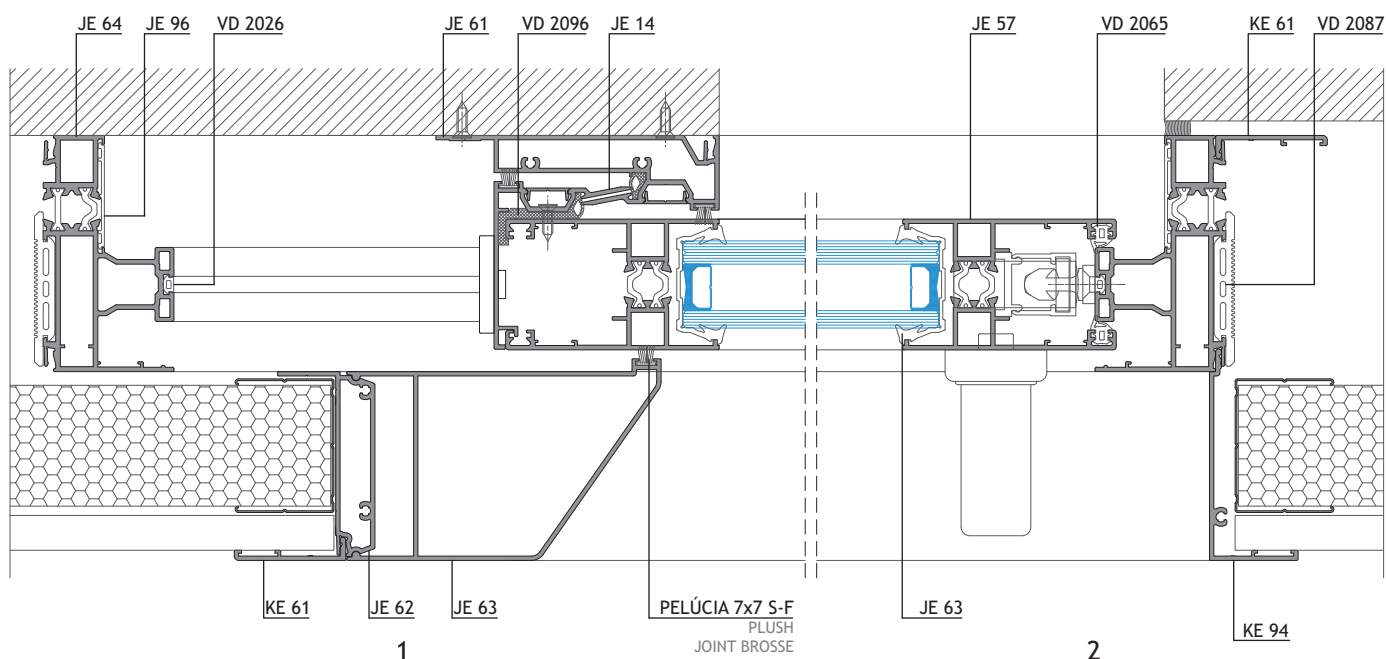
CARRINHO JE
ROLLING BEARING
ROULEU

VD 2065

PE 91

JE 64

VD 2087



JE 64 JE 96 VD 2026

JE 61 VD 2096 JE 14

JE 57

VD 2065

KE 61

VD 2087

KE 61

JE 62

JE 63

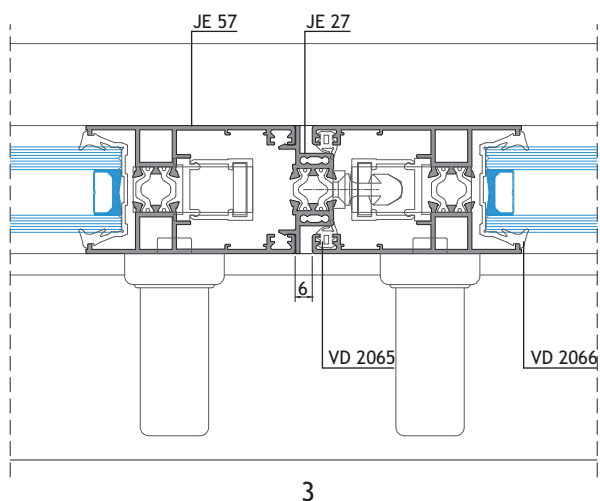
PELÚCIA 7x7 S-F
PLUSH
JOINT BROSSE

JE 63

KE 94

1

2



JE 57

JE 27

VD 2065

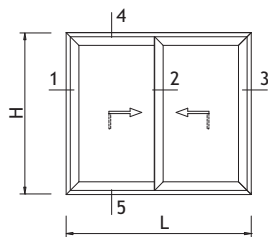
VD 2066

3

JANELA DE CORRER DE 2 FOLHAS

2 LEAVES SLIDING WINDOW

FENÊTRE COULISSANTE 2 VANTAUX



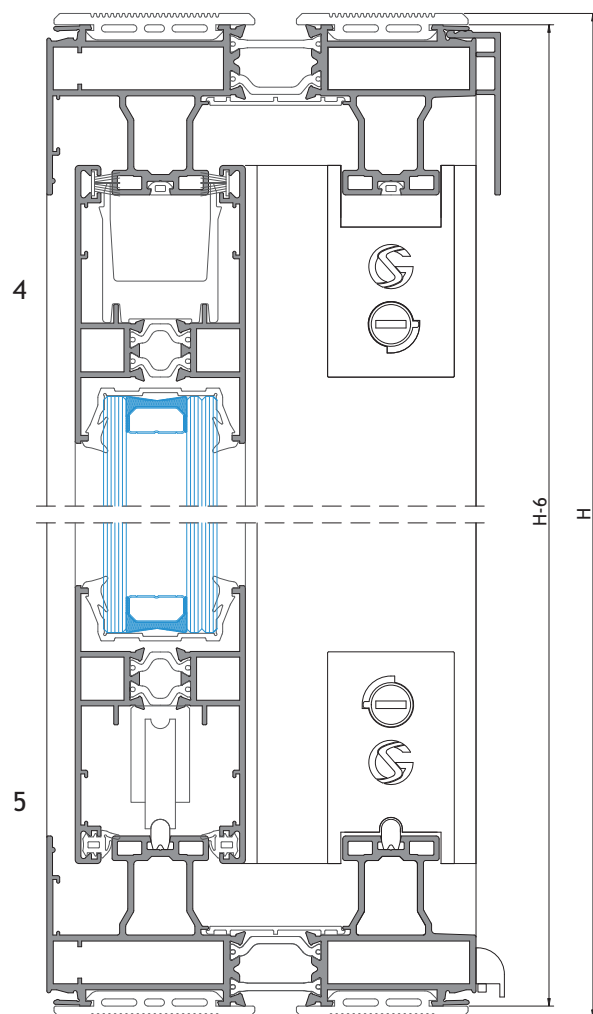
PERFIS PROFILES PROFILS				
REFERÊNCIA REFERENCE REFERENCE	CORTE HORIZONTAL HORIZONTAL DETAIL DÉTAIL HORIZONTAL	CORTE VERTICAL VERTICAL DETAIL DÉTAIL VERTICALE	QUANTIDADE QUANTITY QUANTITÉ	CORTE CUT COUPÉ
JE 02	L-6	H-6	2+2	
JE 57	(L/2)-6	H-81	4+4	
JE 14	-	H-81	2	
JE 80	L-6	-	1	
PE 91	L-90	-	2	
AT 30	-	H-81	2	
JE 96	L-44	H-49	2+2	

ACESSÓRIOS ACCESSORIES ACCESSOIRES			
CÓDIGO CODE	DESIGNAÇÃO DESIGNATION DÉSIGNATION	QUANTIDADE QUANTITY QUANTITÉ	
		ELEVATÓRIA Lifting Élévateur	Multi-ponto M.-point M.-point
-----	CONJ. CARR. ELEV. CC200/174 ROLLING BEARINGS KIT KIT DE ROULEAU	2	-
-----	FERRAGEM CREMONE H(2xxxx) HARDWARE SERRURE	2	-
-----	CREMONE xxxxxxxx HANDLE POIGNÉE	2	-
-----	BARRA DE LIGAÇÃO L (xxx) BAR BARRE	2	-
-----	FECHO MULTI-PONTO JE MULTIPOINT LOCK FERMETURE MULTIPOINT	-	2 *
205105	CARRINHO JE 100Kg ROLLING BEARING ROULEAU	-	4
204155	ESQUADRO 18-3712 C BLOCKING BRACKET ÉQUERRE	8	8
204901	ESQUADRO 18-1112 C JE BLOCKING BRACKET ÉQUERRE	16	16
213246	CANTO CR 5/SB ANGLE COIN	20	20
212102	CONJUNTO GUIAS JE GUIDES KIT KIT DE GUIDES	1	1
212056	CONJ. GUIAS C/AMORTECEDOR JE GUIDES KIT KIT DE GUIDES	1	1
212103	GUIA SUPERIOR JE UPPER GUIDE GUIDE SUPÉRIEUR	MIN. 4 **	MIN. 4 **
210280	GOTEIRA SOS COM VÁLVULA DRIP GOUTTIÈRE	2	2
260020	PARAFUSO PAR 006 SCREW VIS	1Un./m	1Un./m
218109	CALÇO PARA VIDRO 79x40x3 C GLAZING SHIM CALLE POUR VITRAGE	8	8
290260	PARAFUSO PAR 001/2x8 INOX CQ SCREW VIS	14	14

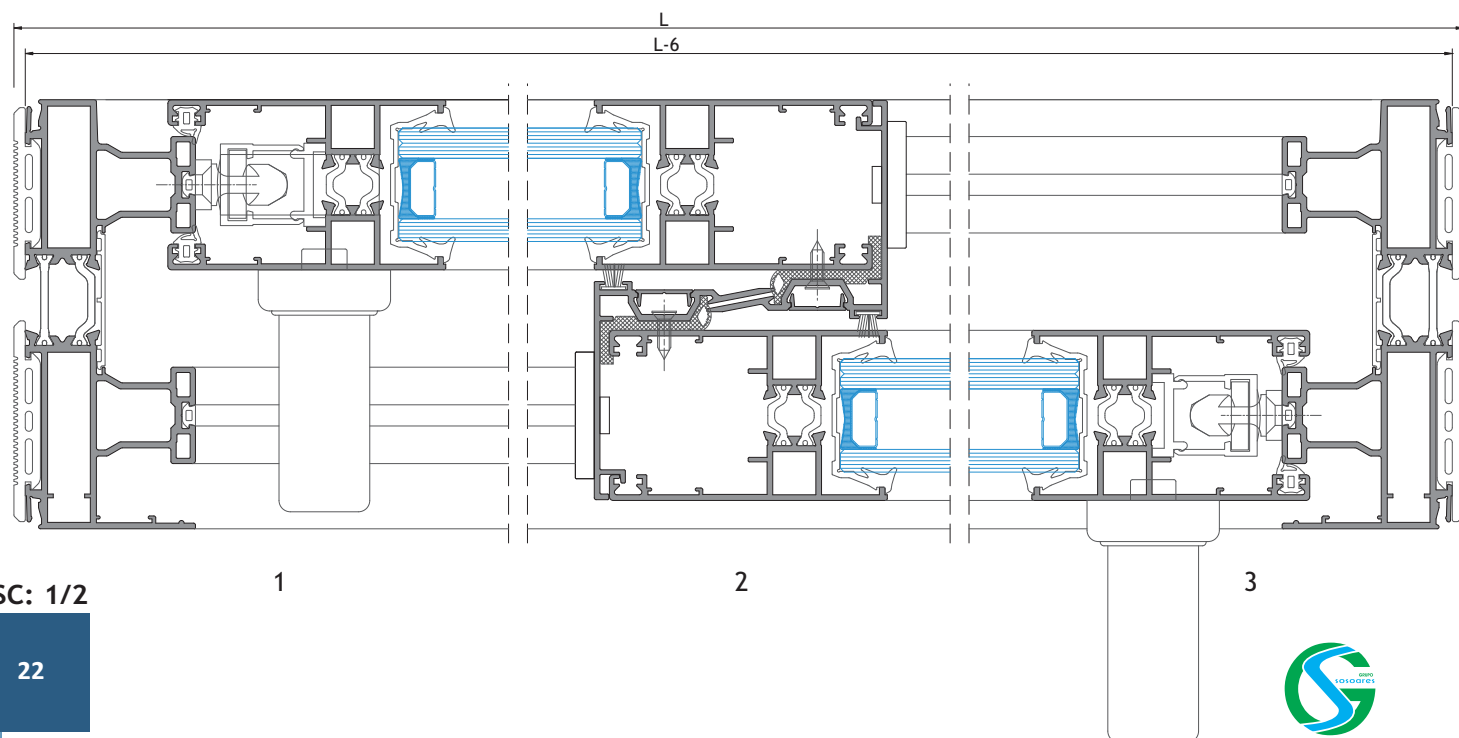
* CONSIDERAR TODOS OS ACESSÓRIOS COMPLEMENTARES.

CONSIDER ALL COMPLEMENTARY ACCESSORIES | CONSIDÉRER TOUTS LES ACCESSOIRES COMPLEMENTAIRES.

**DE 0,00m a 1,00m=2 UNIDADES/FOLHA; DE 1,00m a 2,00m=3 UNIDADES/FOLHA; DE 2,00m a 3,00m=4 UNIDADES/FOLHA
FROM 0,00m to 1,00m=2 UNITS/LEAF; FROM 1,00m to 2,00m=3 UNITS/LEAF; FROM 2,00m to 3,00m=4 UNITS/LEAF
DE 0,00m a 1,00m=2 UNITÉS/VANTAIL; DE 1,00m a 2,00m=3 UNITÉS/VANTAIL; DE 2,00m a 3,00m=4 UNITÉS/VANTAIL



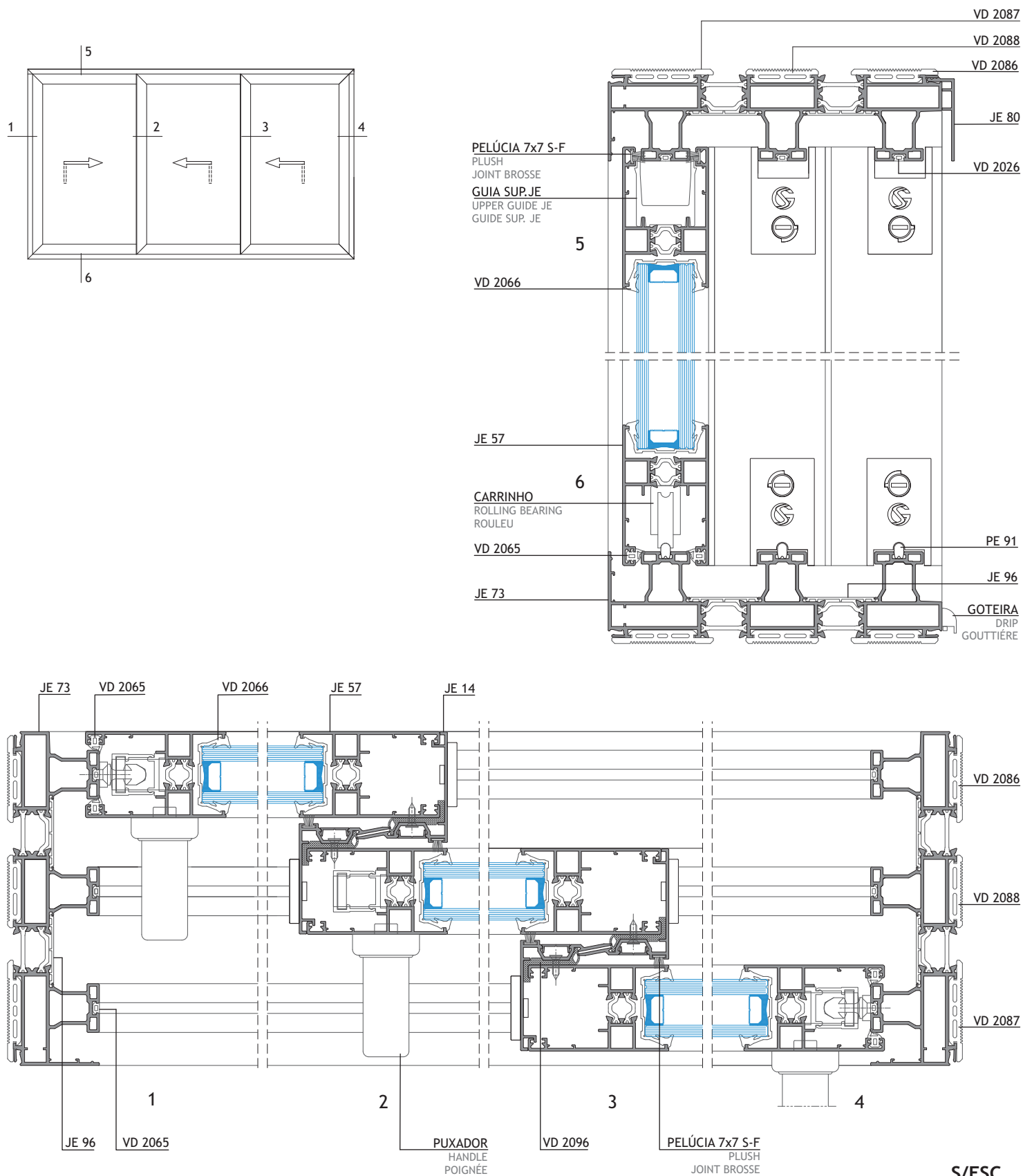
VEDANTES SEALANTS JOINTS			
CÓDIGO CODE	DESIGNAÇÃO DESIGNATION DÉSIGNATION	QUANTIDADE QUANTITY QUANTITÉ	
		Elevatória Lifting Élévateur	Multi-ponto M.-point M.-point
208460	PELÚCIA 7x7 S-FIN PLUSH JOINT BROSSÉ	2L+2H	4L+2H
208300	VD 2096	2H	2H
208298	VD 2065	2L+4H	4H
208299	VD U 2066	2L+4H	2L+4H
208414	VD 2026	2L+4H	2L+4H
208909	VD 2086	2L+2H	2L+2H
208910	VD 2087	2L+2H	2L+2H



JANELA DE CORRER DE 3 FOLHAS - COM PERFIL TRI-RAIL

3 LEAVES SLIDING WINDOW - WITH 3 RAIL PROFILE

FENÊTRE COULISSANTE 3 VANTAOX - AVEC PROFILE TRI-RAIL

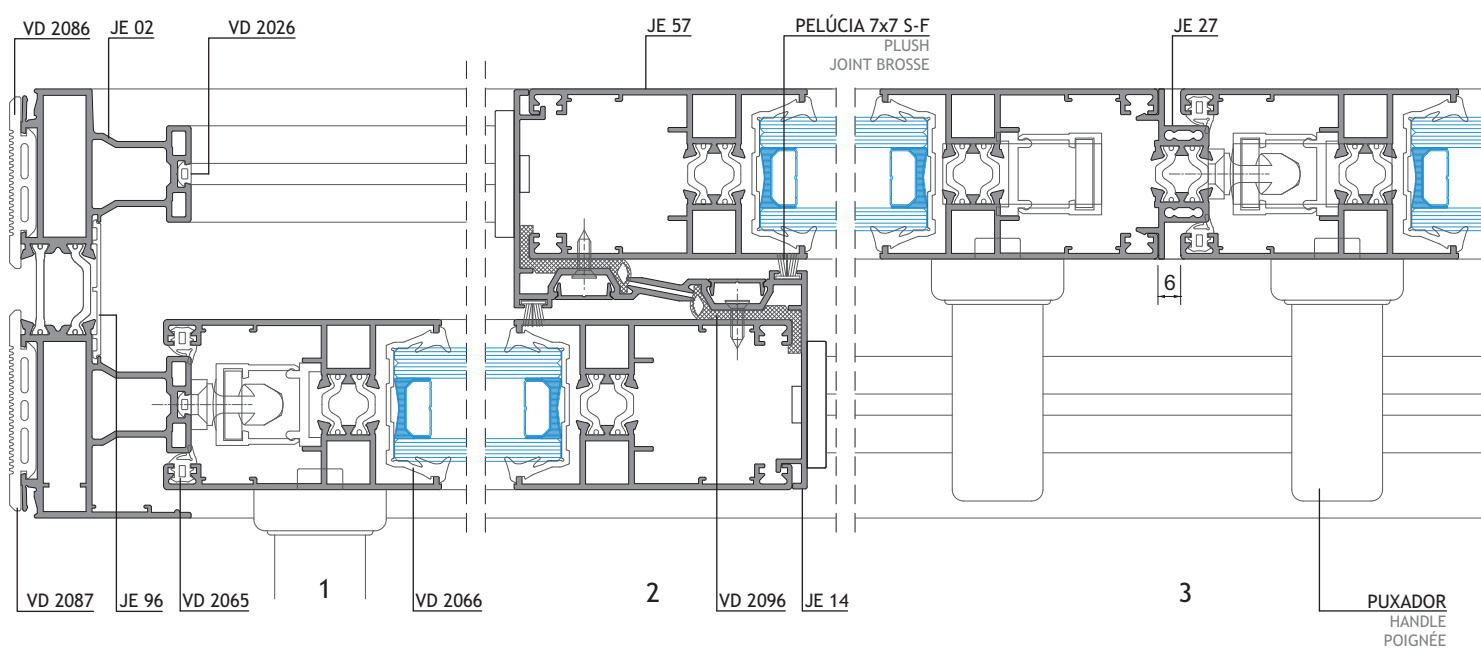
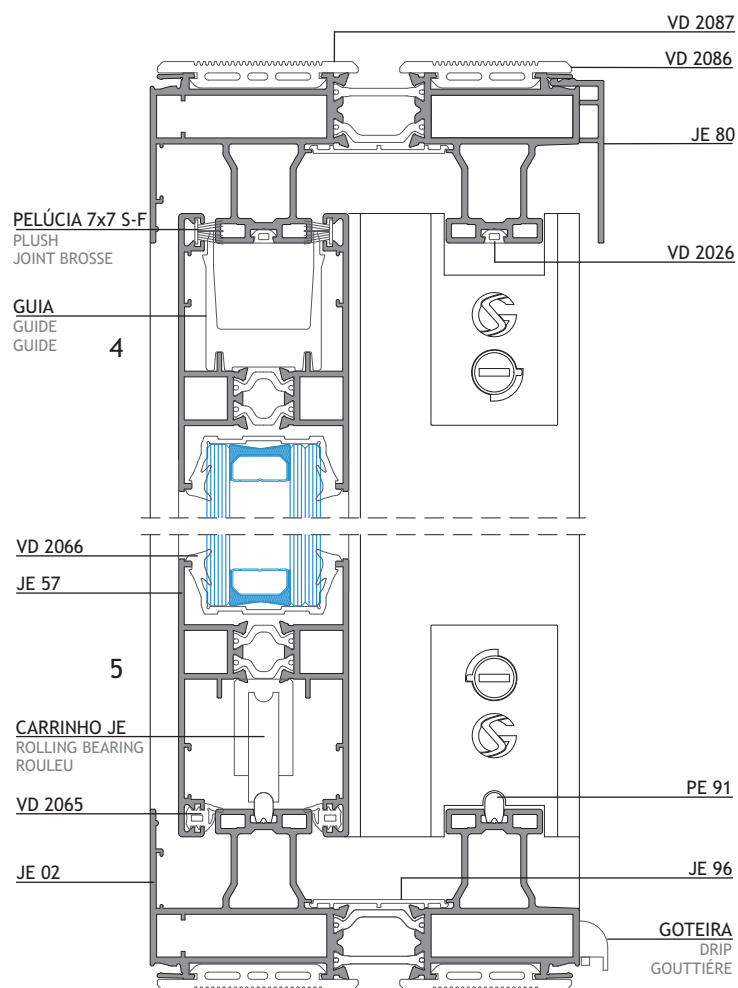
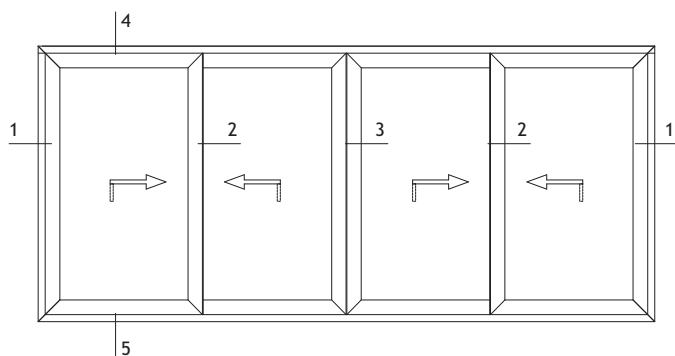


S/ESC.

JANELA DE CORRER DE 4 FOLHAS - COM PERFIL BI-RAIL

4 LEAVES SLIDING WINDOW - WITH 2 RAIL PROFILE

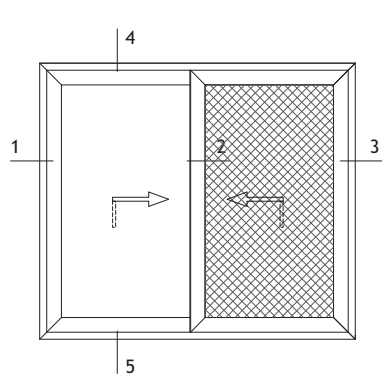
FENÊTRE COULISSANTE 4 VANTAOX - AVEC PROFILE BI-RAIL



JANELA DE CORRER DE 2 FOLHAS COM APLICAÇÃO DE REDE MOSQUITEIRA PELO EXTERIOR

2 LEAVES SLIDING WINDOW WITH OUTER MOSQUITO NET

FENÊTRE COULISSANTE 2 VANTAUX AVEC MOUSTIQUAIRE PAR L'EXTÉRIEUR



PELÚCIA 7x7 S-F
PLUSH
JOINT BROSSE

4
GUIA SUP. JE
UPPER GUIDE JE
GUIDE SUP. JE

VD 2066

JE 57

5
CARRINHO
ROLLING BEARING
ROULEU

JE 73

JE 80

VD 2026

JE 47

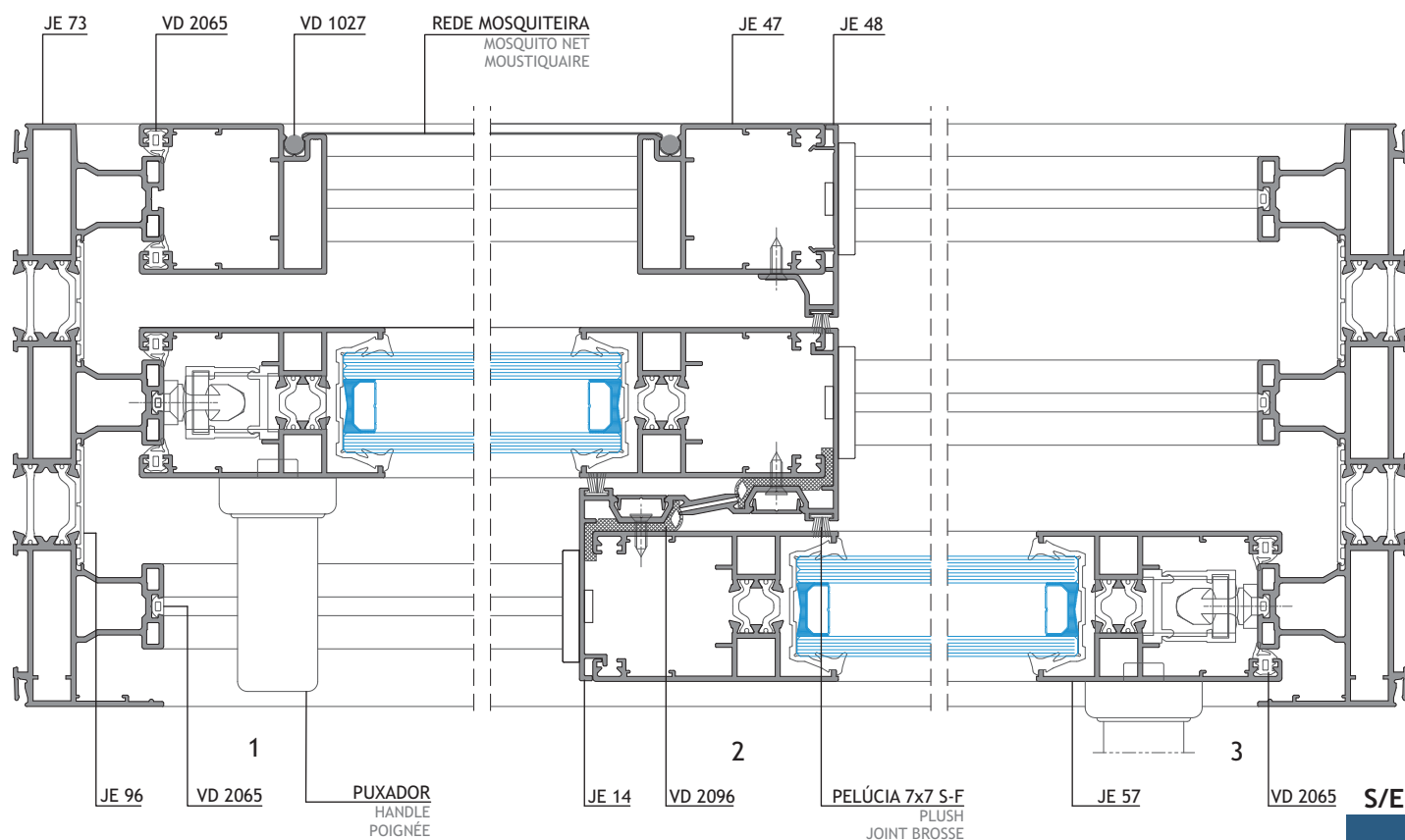
REDE MOSQUITEIRA
MOSQUITO NET
MOUSTIQUAIRE

VD 1027

PE 91

JE 96

GOTEIRA
DRIP
GOUTTIÈRE

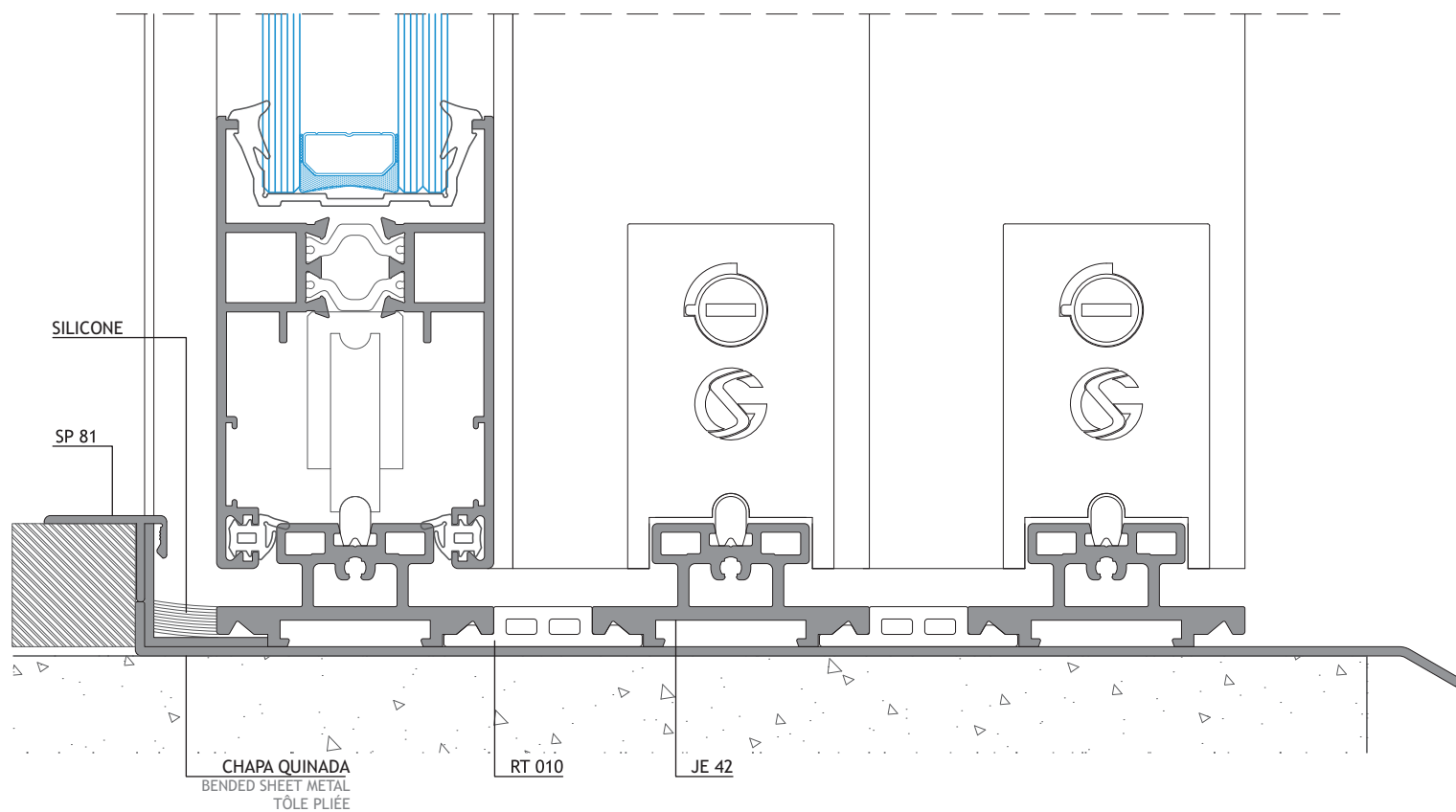
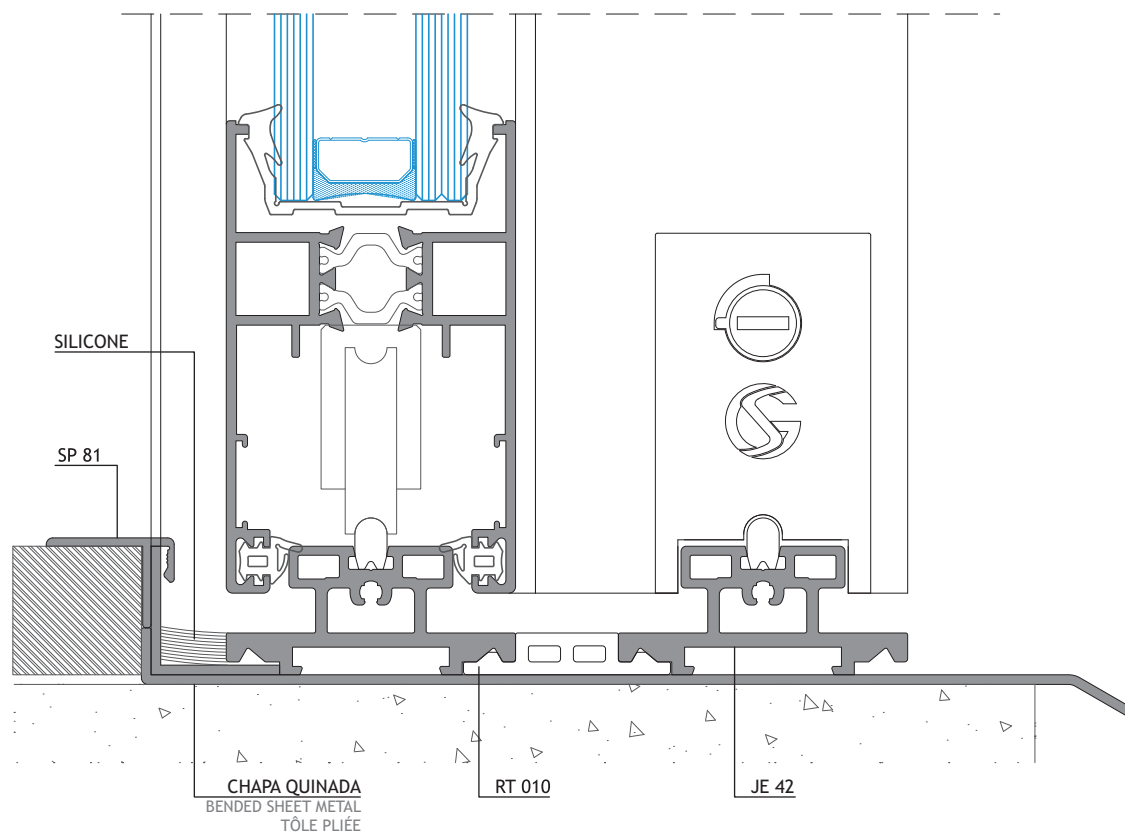


S/ESC.

PORMENORES DE SOLEIRAS COM O PERFIL JE 42

SILL DETAILS WITH PROFILE JE 42

DÉTAILS DE SUIL AVEC PROFILE JE 42

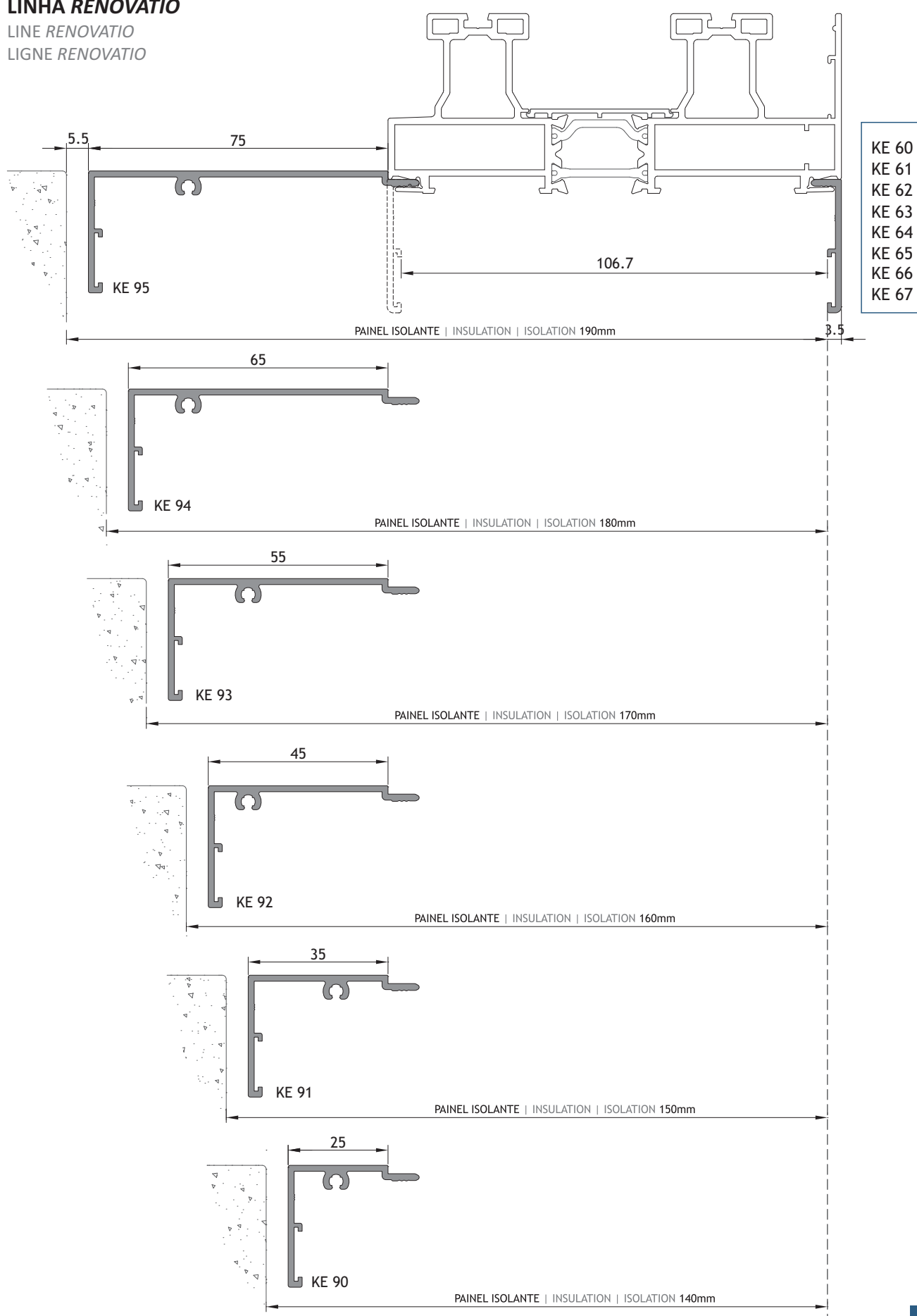


S/ESC.

LINHA RENOVATIO

LINE RENOVATIO

LIGNE RENOVATIO



S/ESC.

LINHA RENOVATIO - PAINEL DE 120mm

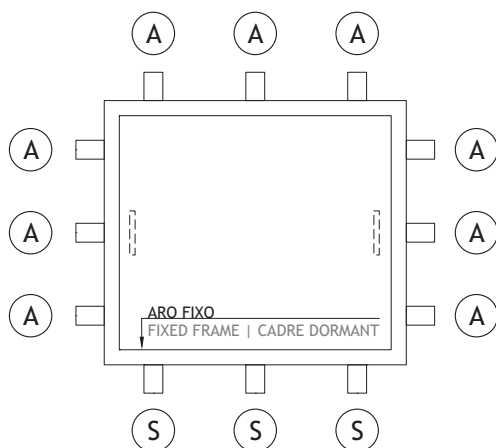
LINE RENOVATIO - 120mm PANEL

LIGNE RENOVATION - PANNEAU DE 120mm

Peso máximo de vidro permitido: 35Kg/m²

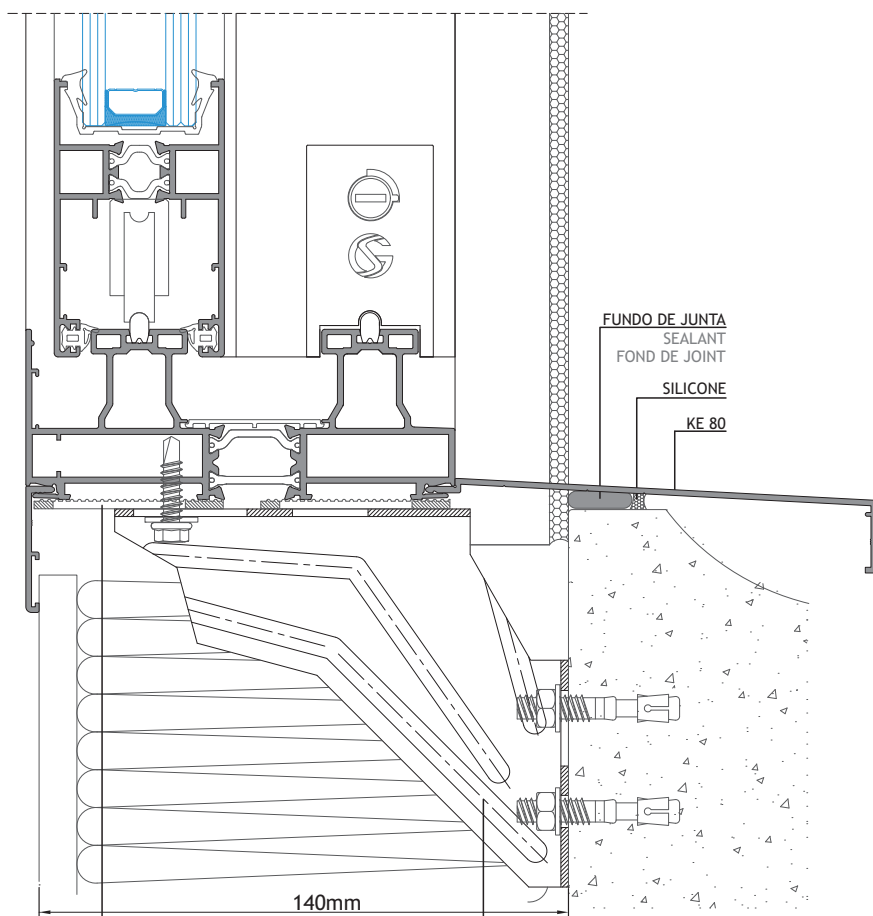
Maximum glass weight allowed: 35Kg/m²

Poids maximum de verre autorisé: 35Kg/m²



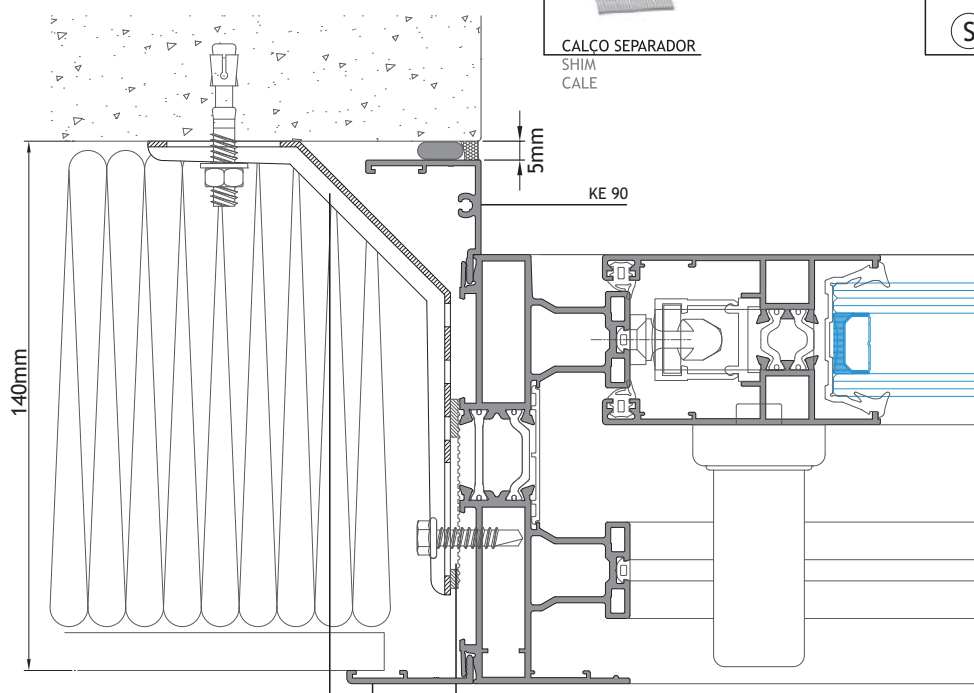
A ÂNGULO FIXAÇÃO 120mm
FIXING ANGLE 120mm
ANGLE DE FIXATION 120mm

S SUPORTE FIXAÇÃO 120mm
FIXING BRACKET 120mm
SUPPORT DE FIXATION 120mm



CALÇO SEPARADOR
SHIM
CALE

S SUPORTE DE FIXAÇÃO 120mm
FIXING BRACKET 120mm
SUPPORT DE FIXATION 120mm



A ÂNGULO FIXAÇÃO 120mm
FIXING ANGLE 120mm
ANGLE DE FIXATION 120mm

KE 60

CALÇO SEPARADOR
SHIM
CALE





SISTEMAS
EURO 2000®
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