



sistema de janelas de guilhotina

sash windows system

systeme de fenêtrés à guillotine





## Características do Sistema - Sistema JG

### System features - JG System

### Caractéristiques du système - Système JG

O sistema JG tem como génese a janela desenvolvida em 1906, conjugando os mesmos benefícios: facilidade de limpeza e versatilidade de abertura, com a resistência e funcionalidade do alumínio. O sistema JG eleva ao expoente máximo as potencialidades deste tipo de abertura no restauro de habitações seculares.

The JG system has its genesis on the window type developed in 1906, allying the same advantages: easy cleaning and opening versatility, to resistance and functionality of aluminium. The JG system takes the potential of this sort of opening to a maximum level on renovation of centenarian houses.

Le système JG puise son inspiration dans la fenêtre créée en 1906 et conjugue les mêmes avantages: facilité de nettoyage et fiabilité d'ouverture, dans la résistance et la fonctionnalité de l'aluminium. Le système JG élève au maximum les capacités de ce type d'ouverture dans la restauration de bâtiments anciens.



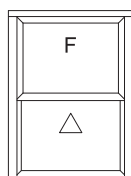
<b>Apresentação:</b>	<b>Móvel + Fixo</b>
Presentation	Movable + Fixed
Présentation	Mobile + Fixe
<b>Dimensões:</b>	<b>Aro Fixo: 100mm</b>
Dimensions	Fixed frame: 100mm
Dimension	Cadre fixe: 100mm
	<b>Aro Móvel: 37mm</b>
	Mobile frame: 37mm
	Cadre mobile: 37mm
<b>Bites:</b>	<b>Retos</b>
Glazing beads	Straight
Parcloses	Droite
<b>Enchimento:</b>	<b>De 4 a 22mm</b>
Filling	From 4 to 22mm
Remplissage	De 4 à 22mm
<b>Cortes:</b>	<b>Aro fixo: 90°</b>
Cuts	Fixed frame: 90°
Coupes	Cadre fixe: 90°
	<b>Aro Móvel: 45°</b>
	Mobile frame: 45°
	Cadre mobile: 45°
<b>Vedação:</b>	<b>Junta em EPDM   Pelúcia</b>
Insulation	EPDM joints   Plush
Étanchéité	Joint EPDM   Joint brosse
<b>União:</b>	<b>Aparafusados   Esquadros de bloqueio de 14mm</b>
Joint	Screwed   14mm blocking brackets
Union	Vissée   Équerres de verrouillage de 14mm
<b>Peso máximo:</b>	<b>Folhas sem basculante: 46 Kg/folha</b>
Maximum weight	Leaves without hopper: 46Kg/leaf
Poids maximale	Vantaux sans vantail à soufflet : 46 Kg/vantail
	<b>Folhas com basculante: 37 Kg/folha</b>
	Leaves with hopper system: 37Kg/leaf
	Vantaux avec vantail à soufflet : 37 Kg/vantail
<b>Altura para folha basculante:</b>	<b>De 450mm a 1200 mm</b>
Limits for hopper sash	From 450mm to 1200mm
Limites pour vantail à soufflet	De 450mm à 1200mm
<b>Acabamentos:</b>	<b>Lacados   Anodizados   Bicolores</b>
Finishes	Powder coated   Anodizing   Bicolour
Finitions	Laqué   Anodisé   Bicolore



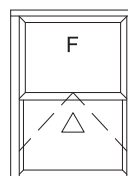
Licença n.º 1406 - Metalfer  
Licença n.º 1411 - Alfa Sul



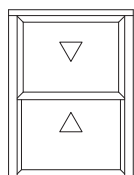
Licença n.º 809



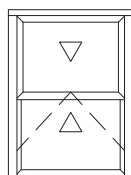
**Fixo + Móvel**  
Single sash window  
Fixe + Mobile



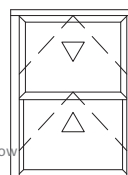
**Fixo + Móvel com basculante**  
Single sash and hopper window  
Fixe + Mobile avec vantail à soufflet



**Móvel + Móvel**  
Double sash window  
Mobile + Mobile



**Móvel + Móvel com 1 basculante**  
Double sash window with 1 hopper window  
Mobile + Mobile avec vantail à soufflet



**Móvel + Móvel com 2 basculantes**  
Double sash window with 2 hopper windows  
Mobile + Mobile avec 2 vantaux à soufflet

Desempenho do sistema  
System performance  
Performance du système

**Marcação CE**

CE Marking  
Marquage CE  
NP EN 14351-1

Janela 2 folhas com 1.20x1.60m - Tipologia Móvel + Móvel

Vidro : 5 + 10 +5

2 leaves window 1.20 x 1.60m - Double sash window typology

Glass: 5 + 10 + 5

Fenêtre 2 vantaux 1.20m x 1.60m - Typologie Mobile + Mobile

Verre: 5 + 10 + 5

**Permeabilidade ao AR**

AIR Permeability  
Perméabilité à l'AIR

**2**

**Estanquidade à ÁGUA**

WATER Tightness  
Étanchéité à l'EAU

**5A**

**Resistência ao VENTO**

WIND Resistance  
Résistance au VENT

**C5**

**Coef. Transm. TÉRMICA**

THERMAL Transmittance  
Coef. de Transmission THERMIQUE

**Uw = 2,86 W/m² K**

Ug = 1,6W/m² K (Janela 2 folhas com 1,40x1,60m)

Ug = 1,6W/m²K (2 leaves window with 1,40x1,60m)

Ug = 1,6W/m²K (Fenêtre de 2 vantaux avec 1,40x1,60m)

**Isolamento ACÚSTICO**

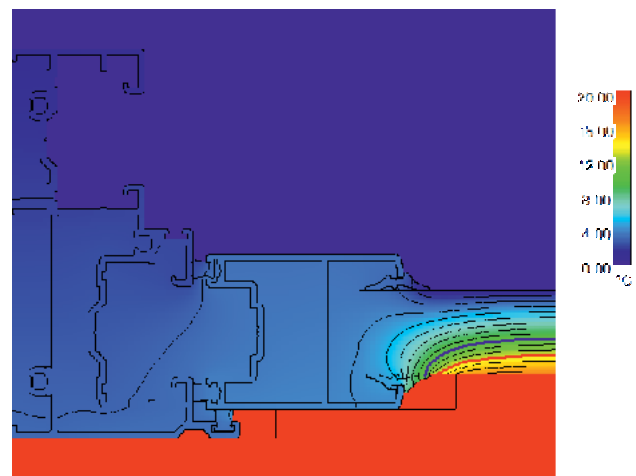
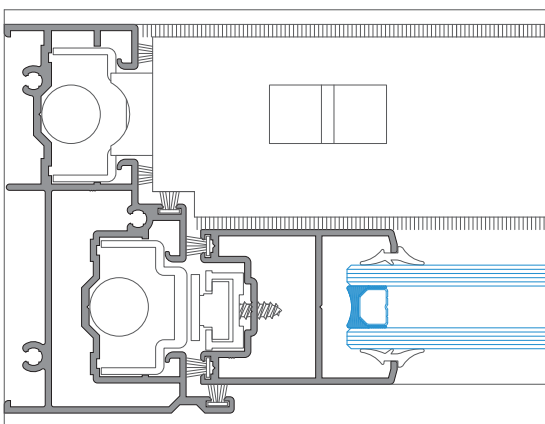
ACOUSTIC Insulation  
Isolation ACOUSTIQUE

**Rw (dB)= 30dB**

Rw (IGU) = 36dB, área ≤ 2,70m²

Rw (IGU) = 36dB, area ≤ 2,70m²

Rw (IGU)=36dB, surface ≤ 2,70m²





5

### Listagem de perfis

Profile list

Liste des profiles

11

### Acessórios

Accessories

Accessoires

17

### Pormenores de montagem

Assembly details

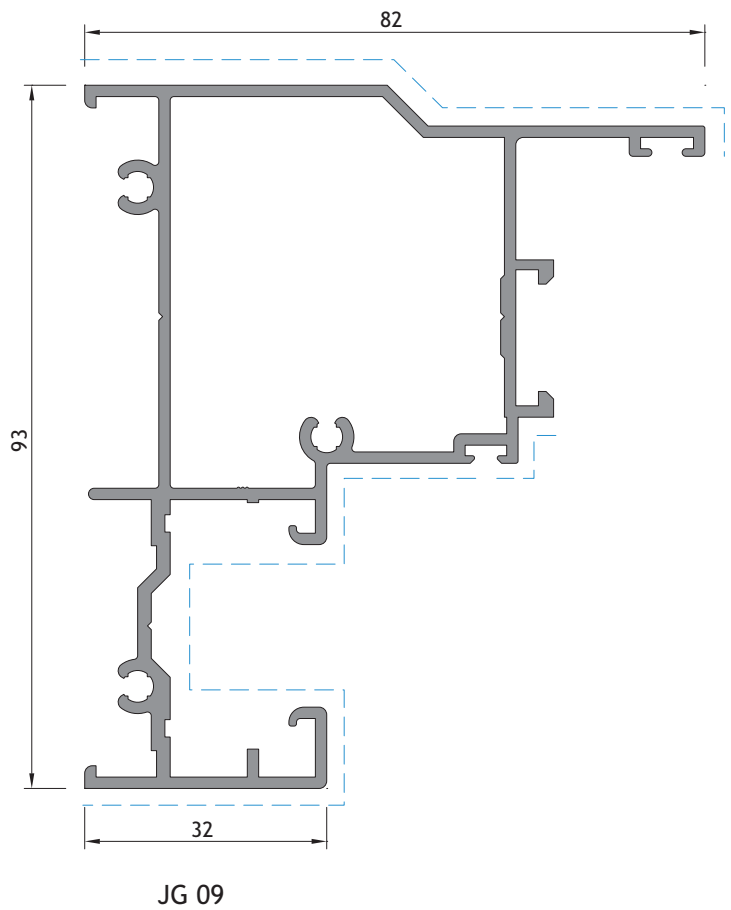
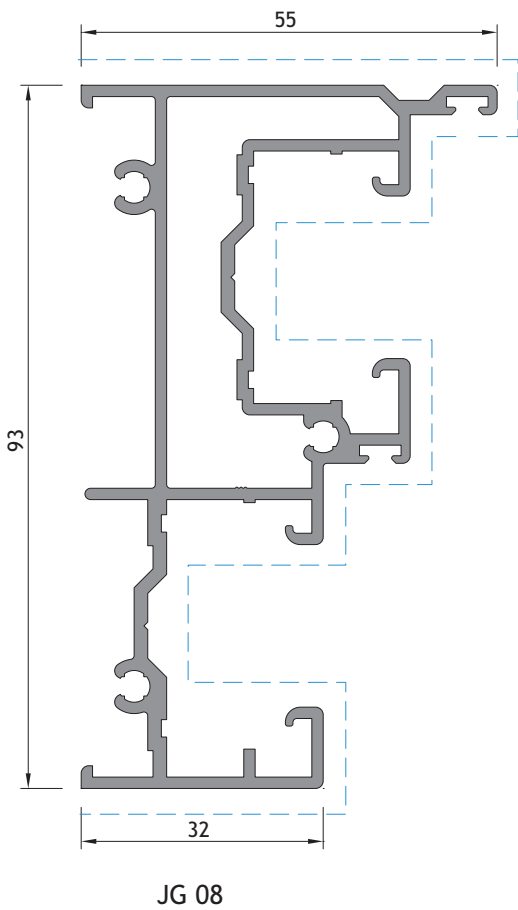
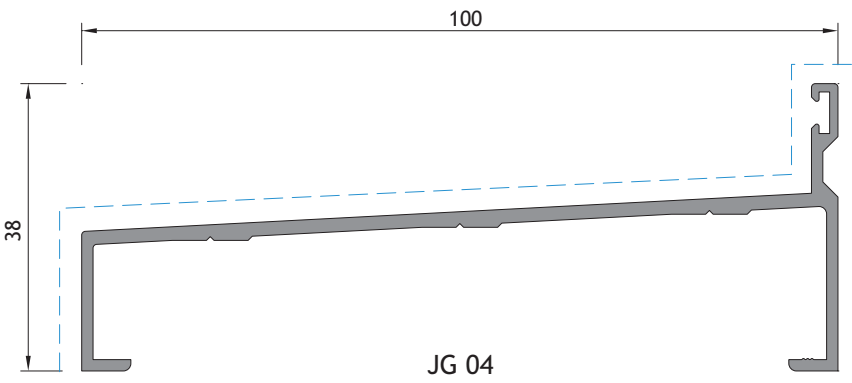
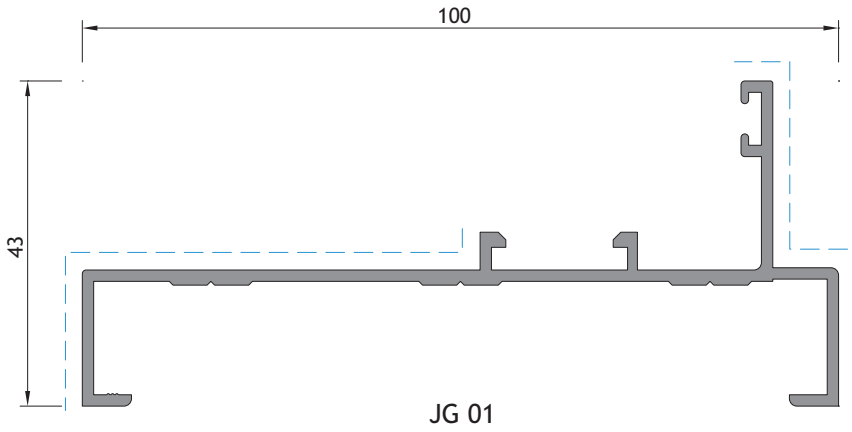
Détails d'assemblage

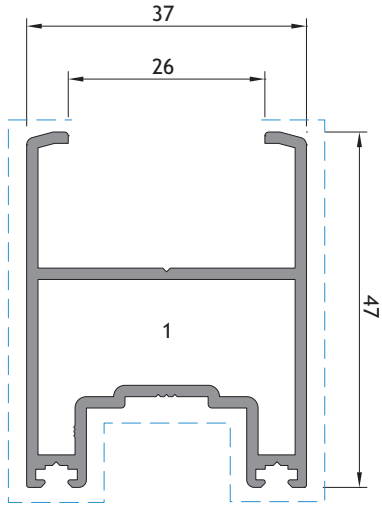


Listagem de perfis

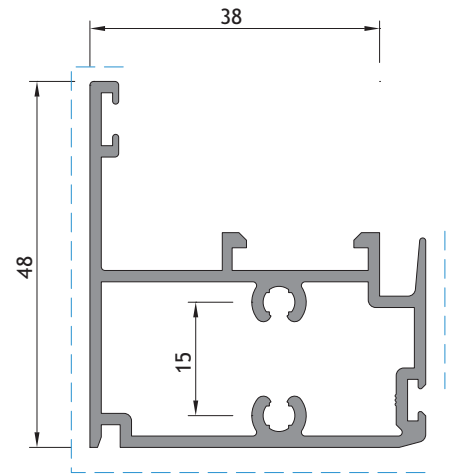
Profile list

Liste des profiles

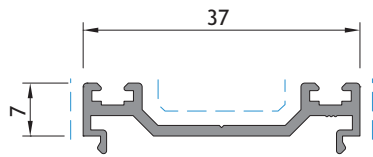




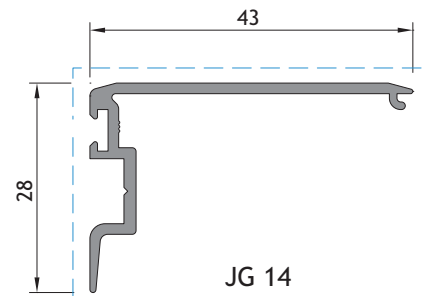
JG 17



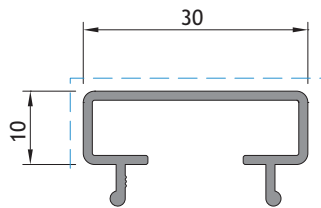
JG 11



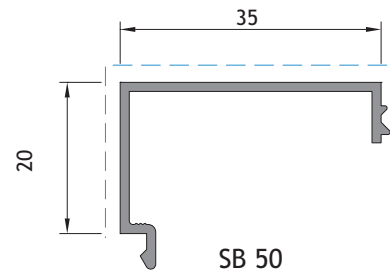
JG 27



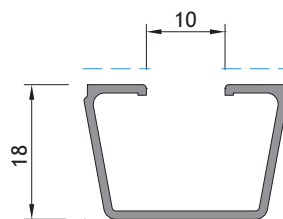
JG 14



JG 26

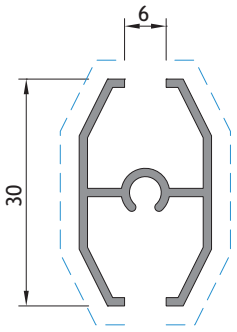


SB 50

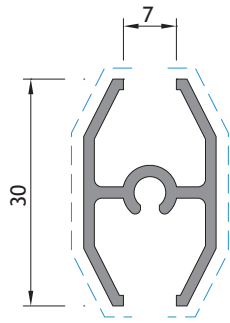


PL 24

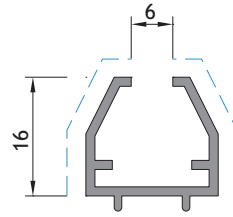




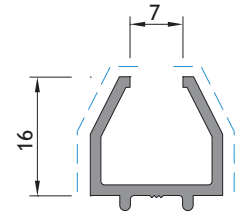
KY 02



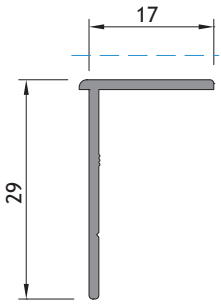
KY 12



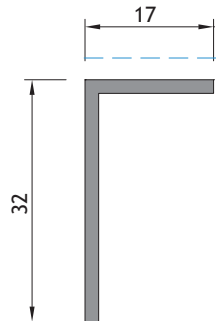
KY 01



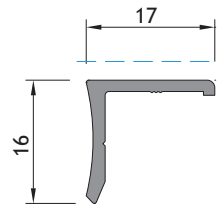
KY 11



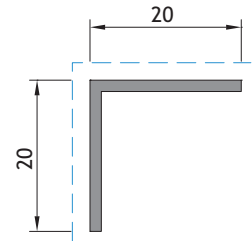
JM 81



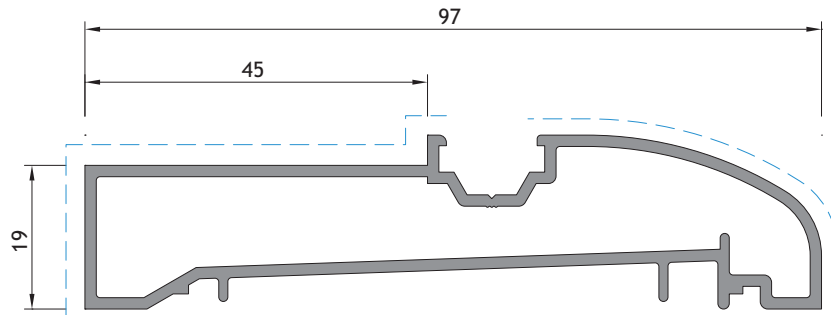
KL 84



TL 81

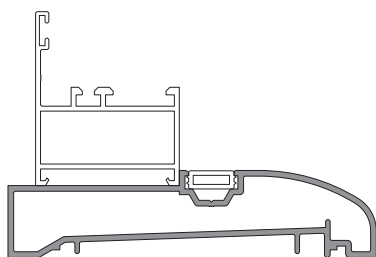


KL 20

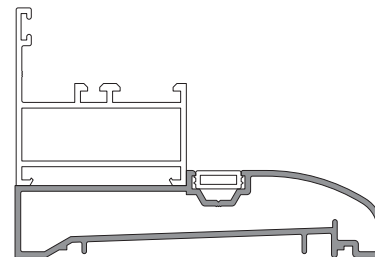


CX 81

PERFIL DE LIGAÇÃO A SISTEMAS DE BATENTE  
 CONNECTION PROFILE TO OPENING SYSTEMS  
 PROFIL DE CONNEXION AU SYSTÈME DE BATTANT

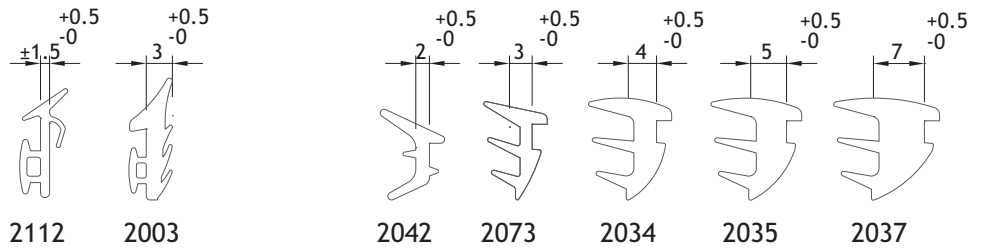
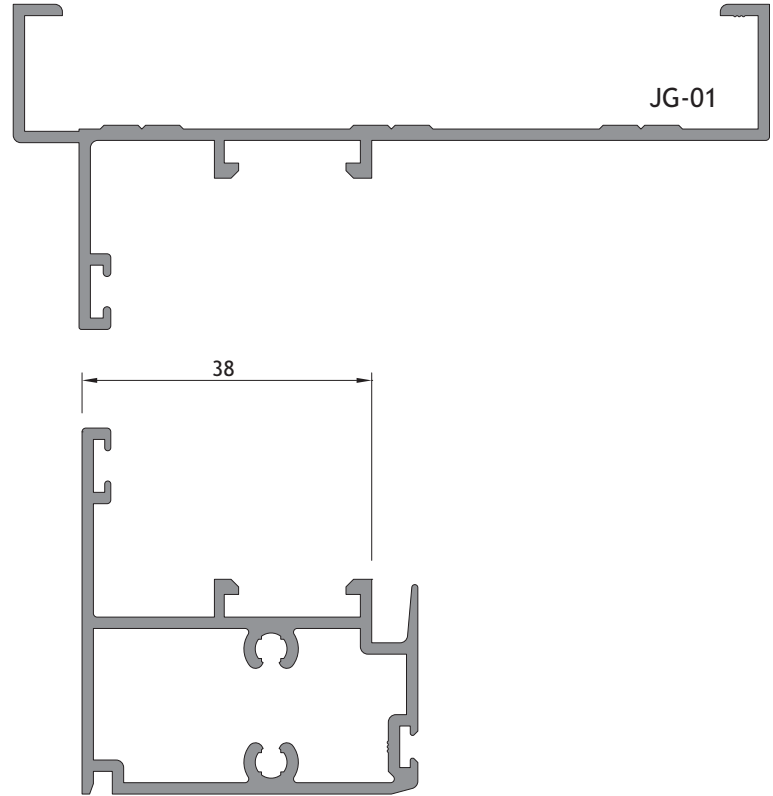
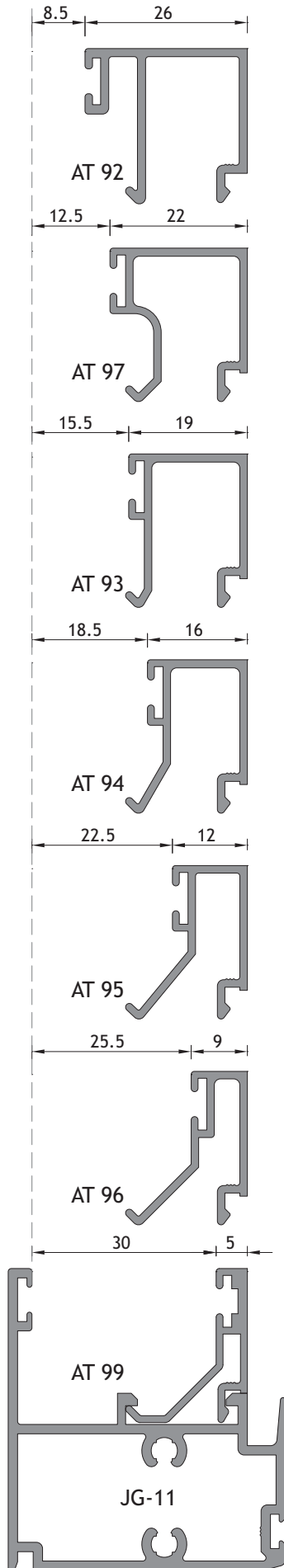


LIGAÇÃO AO SISTEMA SB  
 SB SYSTEM CONNECTION  
 CONNEXION AU SYSTÈME SB



LIGAÇÃO AO SISTEMA SA  
 SA SYSTEM CONNECTION  
 CONNEXION AU SYSTÈME SA

TABELA DE BITES | GLAZING BEADS SCHEDULE | TABLE DES PARCLOSES



VEDANTE EXTERIOR OUTER GASKET JOINT EXTÉRIEUR	ESPESSURA DO VIDRO THICKNESS OF GLASS ÉPAISSEUR DU VERRE	VEDANTE INTERIOR INNER GASKET JOINT INTÉRIEUR	BITES GLAZING BEAD PARCLOSE
2042	4	2042	AT 92
2003	4	2035	AT 97
2003	5	2034	AT 97
2003	6	2035	AT 93
2003	10	2035	AT 94
2003	14	2035	AT 95
2003	16	2035	AT 96
2003	18	2034	AT 96
2112	20	2034	AT 96
2003	21	2042	AT 96
2112	22	2042	AT 96
2003	24	2073	AT 99
2112	25	2042	AT 99



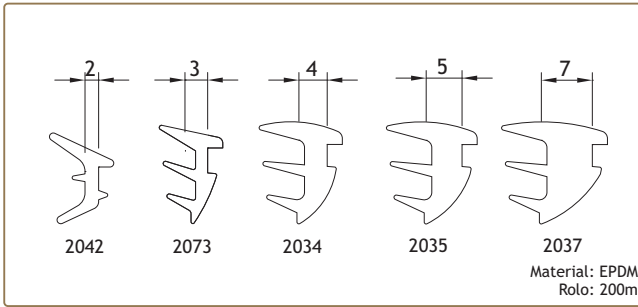
## **Acessórios**

Accessories

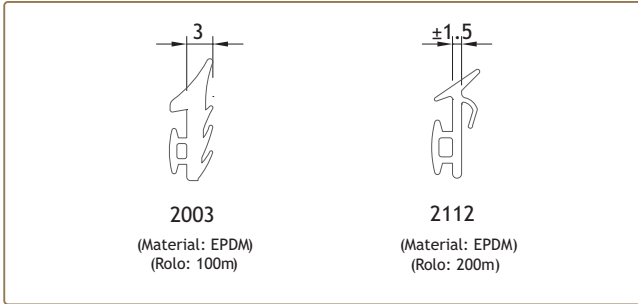
Accessoires



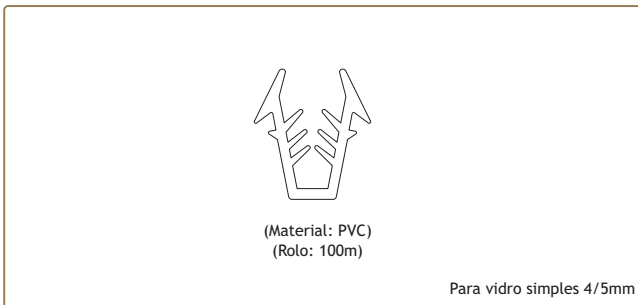




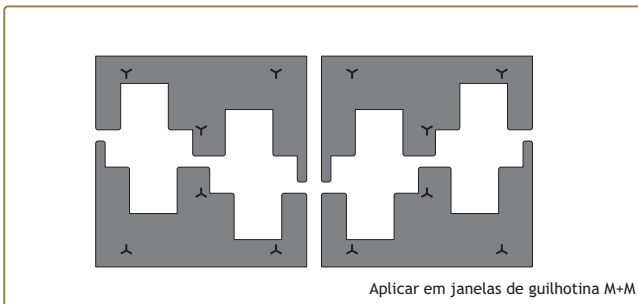
208191 JUNTA DE CUNHA 2042  
 208195 JUNTA DE CUNHA 2034  
 208196 JUNTA DE CUNHA 2035  
 208904 JUNTA DE CUNHA 2037  
 208199 JUNTA DE CUNHA 2073  
 Material: EPDM  
 Rolo: 200m



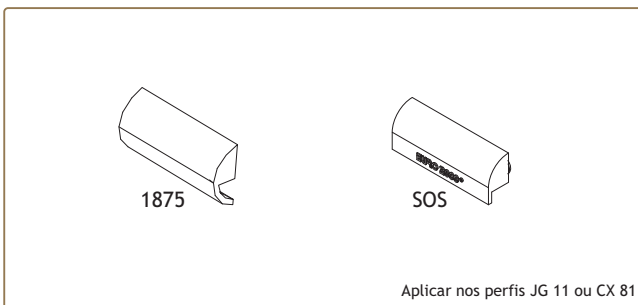
208350 JUNTA DE VEDAÇÃO EXTERIOR 2003  
 208278 JUNTA DE ESTANQUIDADE 2112  
 (Material: EPDM)  
 (Rolo: 100m) / (Material: EPDM)  
 (Rolo: 200m)



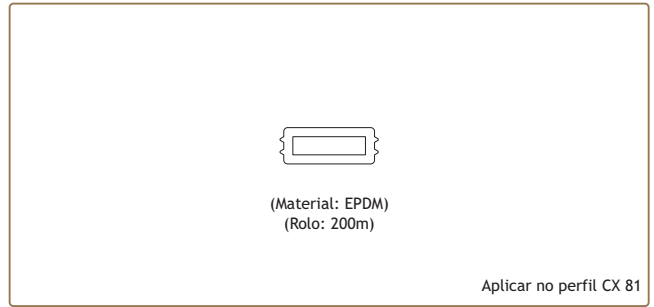
208620 JUNTA EM U 1029 Pr.  
 (Material: PVC)  
 (Rolo: 100m)  
 Para vidro simples 4/5mm



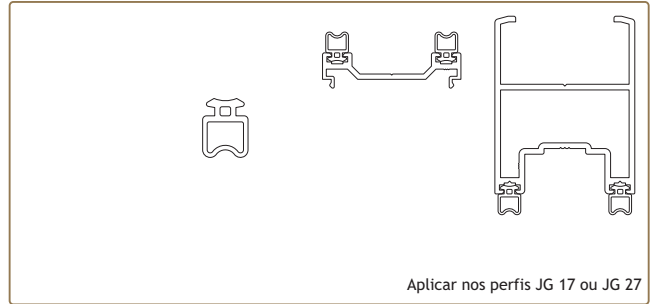
223003 KIT DE JUNTAS JG 4-8  
 Aplicar em janelas de guilhotina M+M



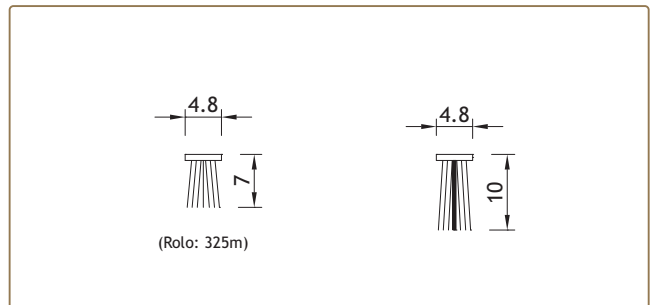
210154 GOTEIRA 1875 Br/Pr  
 210280 GOTEIRA SOS C/VÁLVULA Br  
 Aplicar nos perfis JG 11 ou CX 81



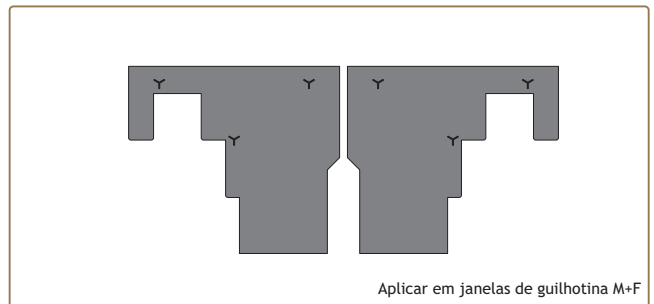
208412 JUNTA TAPA CANAL 2015  
 (Material: EPDM)  
 (Rolo: 200m)  
 Aplicar no perfil CX 81



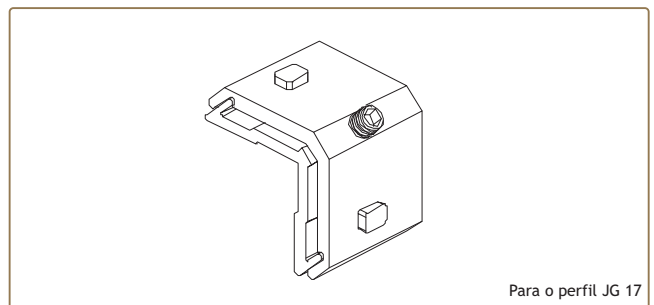
208277 JUNTA DE ESTANQUIDADE 2044  
 Aplicar nos perfis JG 17 ou JG 27



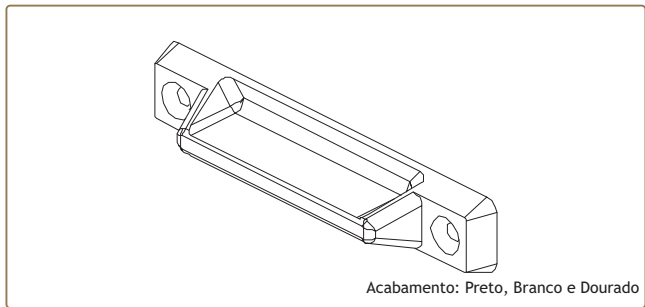
208564 VEDANTE PELÚCIA 4.8x7  
 208560 VEDANTE PELÚCIA 4.8x10 S-FIN  
 (Rolo: 325m)



223571 KIT DE JUNTAS JG 4-9  
 Aplicar em janelas de guilhotina M+F



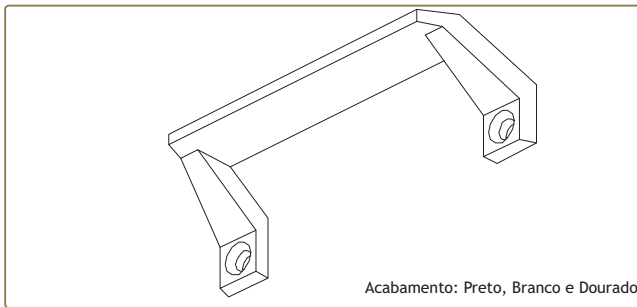
204321 ESQUADRO JG ESP. PEQUENO  
 Para o perfil JG 17



Acabamento: Preto, Branco e Dourado

200050

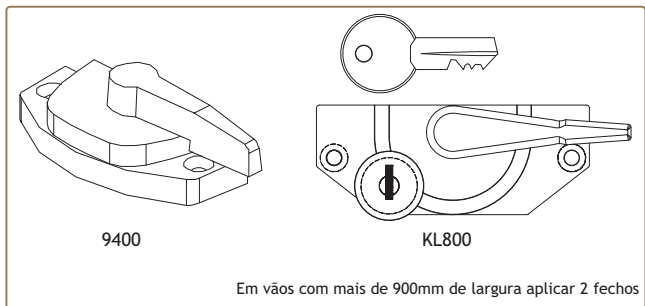
ASA 7761



Acabamento: Preto, Branco e Dourado

200008

ASA 8790



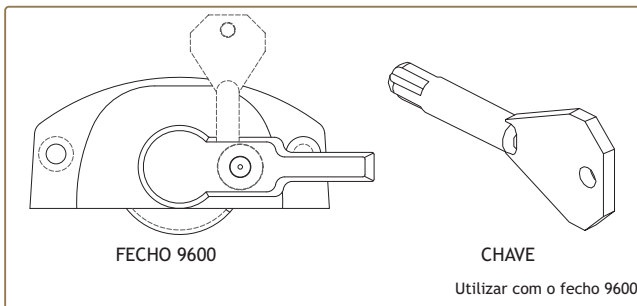
9400

KL800

Em vãos com mais de 900mm de largura aplicar 2 fechos

201500  
201058

FECHO P/GUILHOTINA 9400 (Br./Pr.)  
FECHO COM CHAVE P/GUILHOTINA KL800 Br.



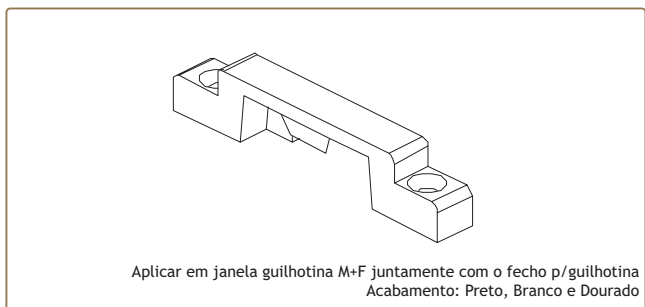
FECHO 9600

CHAVE

Utilizar com o fecho 9600

201059

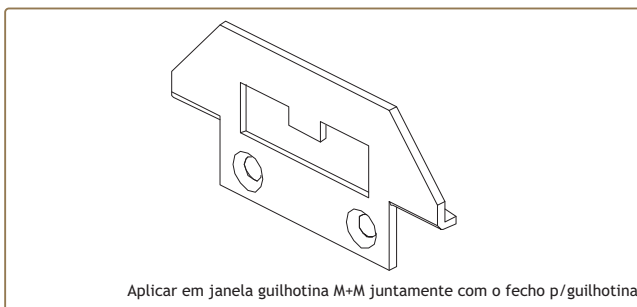
FECHO COM CHAVE P/GUILHOTINA 9600



Aplicar em janela guilhotina M+F juntamente com o fecho p/guilhotina  
Acabamento: Preto, Branco e Dourado

202086

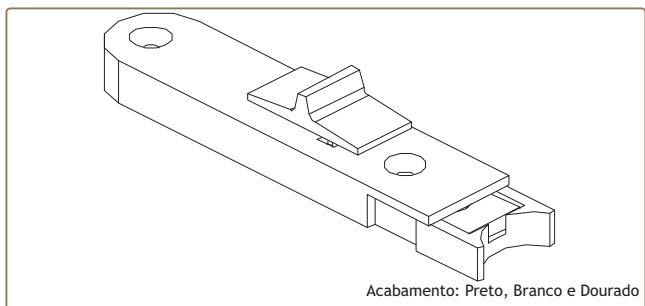
CONTRA-FECHO 9405



Aplicar em janela guilhotina M+M juntamente com o fecho p/guilhotina

202405  
202508

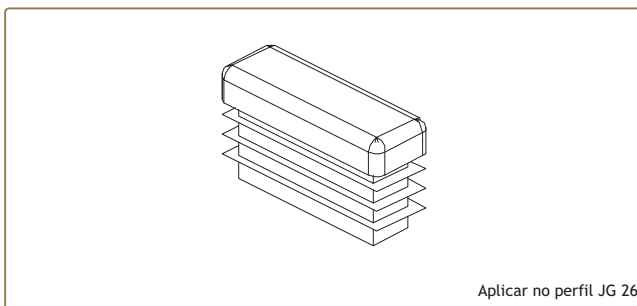
CONTRA-FECHO UK 240 (Br./Pr.)  
CONTRA-FECHO UK 230 Dourado



Acabamento: Preto, Branco e Dourado

201458

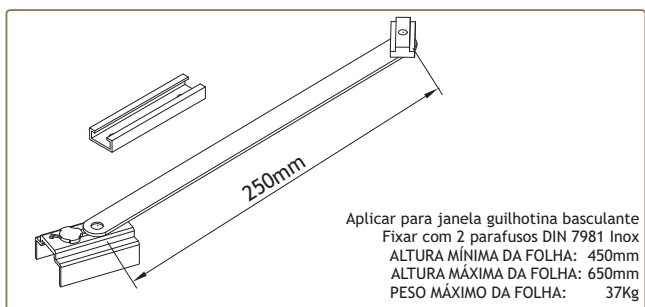
FECHO-GUIA UK 144 Nylon



Aplicar no perfil JG 26

210175

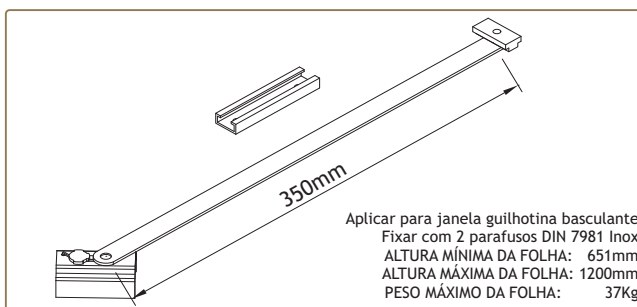
TOPO P/GUILHOTINA UK 224 Nylon (Preto)



Aplicar para janela guilhotina basculante  
Fixar com 2 parafusos DIN 7981 Inox  
ALTURA MÍNIMA DA FOLHA: 450mm  
ALTURA MÁXIMA DA FOLHA: 650mm  
PESO MÁXIMO DA FOLHA: 37kg

202052

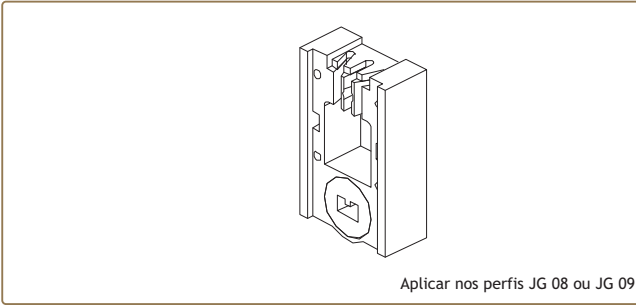
COMPASSO RA 250JC QR + CALHA (Ac. Natural)



Aplicar para janela guilhotina basculante  
Fixar com 2 parafusos DIN 7981 Inox  
ALTURA MÍNIMA DA FOLHA: 651mm  
ALTURA MÁXIMA DA FOLHA: 1200mm  
PESO MÁXIMO DA FOLHA: 37kg

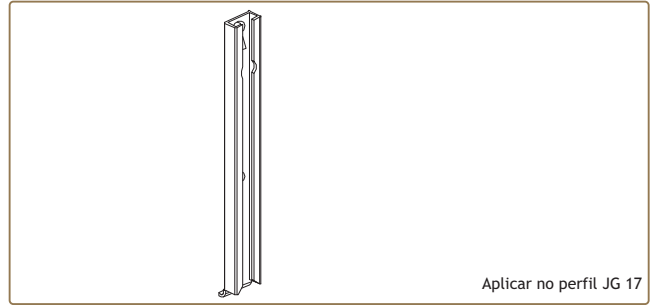
202053

COMPASSO RA 350JC QR + CALHA (Ac. Natural)



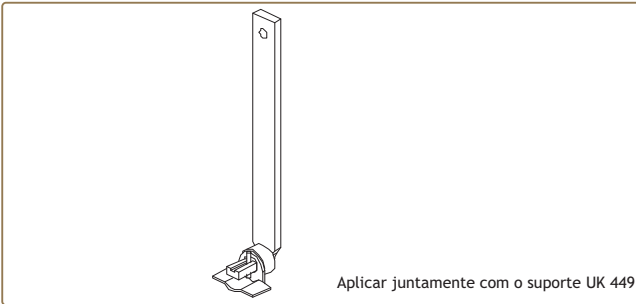
Aplicar nos perfis JG 08 ou JG 09

219170 DESLIZADOR PIVOT UK 132 Nylon (Branco)



Aplicar no perfil JG 17

230302 SUPORTE PIVOT UK 449 Bruto



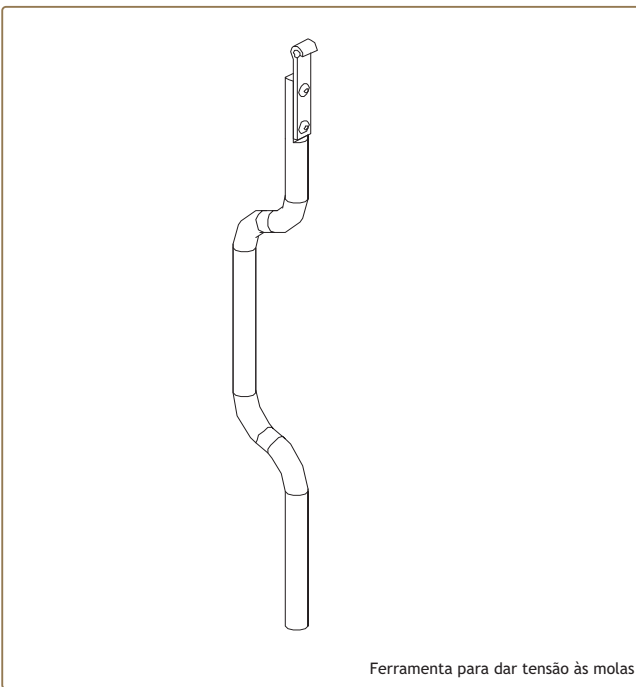
Aplicar juntamente com o suporte UK 449

215201 BARRA PIVOT ÂNGULO UK 446 Bruto



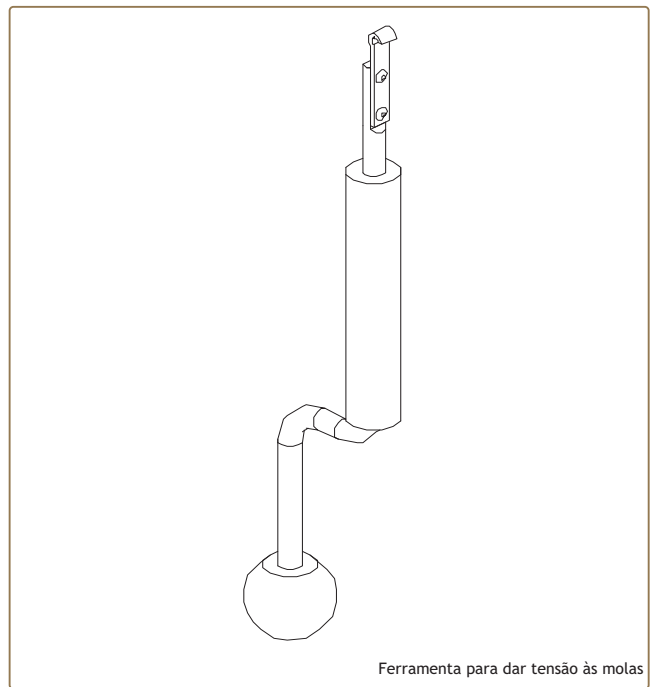
Aplicar juntamente com o suporte UK 449 e à Barra Pivot UK 446

207002 PERNO DE FIXAÇÃO UK 469 Nylon (Preto)



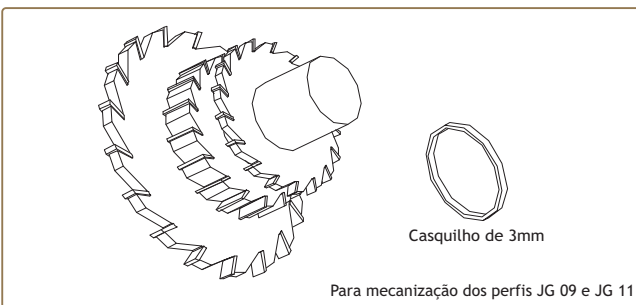
Ferramenta para dar tensão às molas

228216 FERRAMENTA PARA MOLAS JG N°1



Ferramenta para dar tensão às molas

228215 FERRAMENTA PARA MOLAS JG N°2



Casquilho de 3mm

Para mecanização dos perfis JG 09 e JG 11

406001 CONJUNTO FRESAS (3) SÉRIE 2000+SB

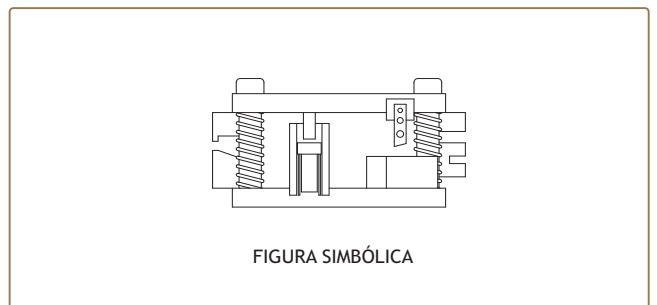


FIGURA SIMBÓLICA

408039 CORTANTE JG



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)





## **Pormenores de montagem**

Assembly details  
Détails d'assemblage

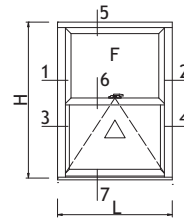




# JANELA DE GUILHOTINA - TIPOLOGIA MÓVEL + FIXO

SASH WINDOW - SINGLE SASH WINDOW TYPOLOGY

FENÊTRE À GUILLOTINE - TYPOLOGIE MOBILE + FIXE



ALTURA MÍNIMA DO VÃO: 500mm  
ALTURA MÁXIMA DO VÃO: 2500mm

MINIMUM HEIGHT: 500mm  
MAXIMUM HEIGHT: 2500mm

HAUTEUR MINIMALE: 500mm  
HAUTEUR MAXIMALE: 2500mm

PERFIS PROFILES   PROFILS				
REFERÊNCIA REFERENCE RÉFÉRENCE	CORTE HORIZONTAL HORIZONTAL DETAIL DÉTAIL HORIZONTAL	CORTE VERTICAL VERTICAL DETAIL DÉTAIL VERTICALE	QUANTIDADE QUANTITY QUANTITÉ	CORTE CUT COUPÉ
JG-01	L	-	1	
JG-04	L	-	1	
JG-09	-	H-38	2	
JG-17	L-71	(H+26)/2	2+2	
JG-11	L-115	-	1	
JG-14	L-71	-	1	
JG-26	-	Diverso   Diverse   Divers*	2	
SB-50	-	(H-55)/2	2	
	L-164	(H-88)/2	2+2	

● Perfis com corte de 3° | Profiles with 3° cuts | Profils avec coupe de 3°

\* Medidas de corte em função da mola | Cutting measures according Balances | mesures de coupé selon la Ressort

VEDANTES SEALANTS   JOINTS		
CÓDIGO CODE	DESIGNAÇÃO DESIGNATION   DÉSIGNATION	QUANTIDADE QUANTITY   QUANTITÉ
VARIÁVEL VARIABLE	JUNTA EXTERIOR PARA VIDRO   GLAZING GASKET   JOINT EXTÉRIEURE	2L+2H
VARIÁVEL VARIABLE	CUNHA PARA VIDRO   GLAZING WEDGE GASKET   JOINT INTÉRIEURE	6L+3H
208277	VD 2044	2L
208564	PELÚCIA 4.8x7   PLUSH   JOINT BROUSSE	3L+4H

ACESSÓRIOS ACCESSORIES   ACCESSOIRES		
CÓDIGO CODE	DESIGNAÇÃO DESIGNATION   DÉSIGNATION	QUANTIDADE QUANTITY   QUANTITÉ
210280	GOTEIRA COM VÁLVULA SOS   DRIP   GOUITIÈRE	2
223571	KIT JUNTAS JG 4-9   GASKETS KIT   KIT DE JOINTS	1
200050	ASA 7761   SASH LIFT HANDLE   POIGNÉE POR GUILLOTINE	2
202052	450-folha   leaf   vantail-650mm: COMP. RA250 JCQR+CALHA   FRICTION HINGE   COMPAS	(a) 2
202053	651-folha   leaf   vantail-1200mm: COMP. RA350 JCQR+CALHA   FRICTION HINGE   COMPAS	(a) 2
202086	CONTRA-FECHO 9405 (Pr./Br.)   COUNTER-LOCK   CONTRE-FERMETURE	1
219170	DESILIZADOR PIVOT UK 132   PIVOT SLIDER   COULISSE PIVOT	2
201500	FECHO P/GUILHOTINA 9400   SASH LOCKER   FERMETURE POUR GUILLOTINE	(c) 1
201458	FECHO-GUIA UK 144   LOCKER-GUIDE   FERMETURE-GUIDE	2
210175	TOPO P/GUILHOTINA UK 224   SASH END-CAP   EMBOUTE POUR GUILLOTINE	2
230302	SUPORTE PIVOT UK 449   PIVOT BRACKET   SUPPORT PIVOT	2
215201	BARRA PIVOT ÂNGULO UK 446   PIVOT SHAFT   BARRE PIVOT	2
204321	ESQUADRO JG E. P.   BLOCKING BRACKET   ÉQUERRE	4
.....	CONJUNTO DE MOLAS   BALANCES SET   RESSORT	(b) 1

(a) Folha > 37kg: NÃO APLICAR ESTES ACESSÓRIOS

Leaf | Vantail > 37kg: DO NOT APPLY THIS ACCESSORIES | NE PAS APPLIQUER CE ACCESSOIRES

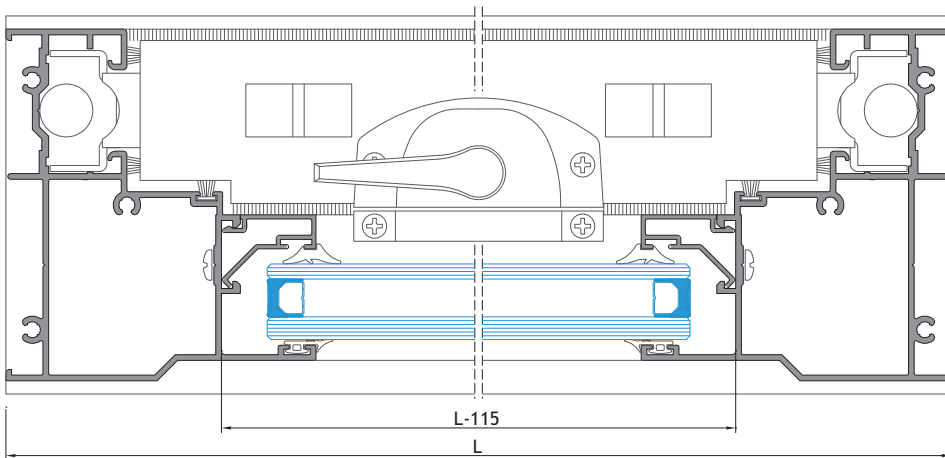
(b) A definição das molas é executada pelo Dep. Técnico do GRUPO SOSOARES

Balances are defined by GRUPO SOSOARES | Les Ressorts sont définies par GRUPO SOSOARES

(c) Largura da janela > 900mm: Aplicar 2 FECHOS 9400 + 2 CONTRA-FECHOS 9405

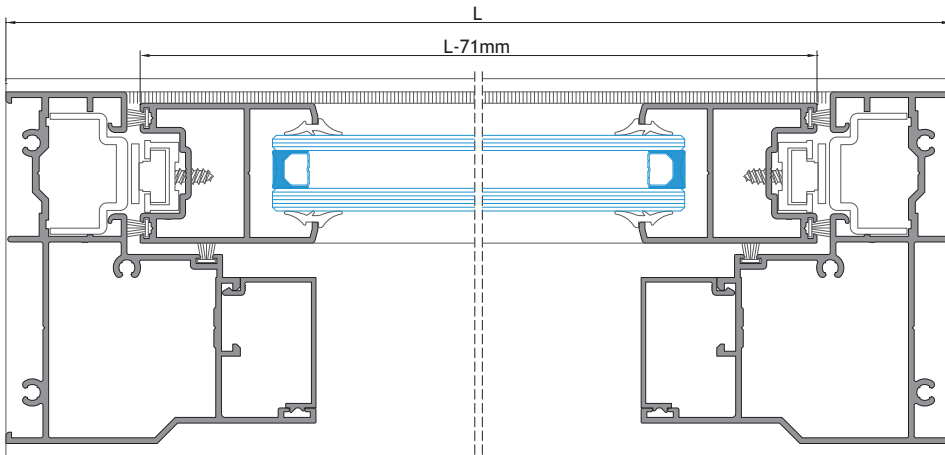
Frame width > 900mm: Apply 2 LOCKER 9400 + 2 COUNTER-LOCKER 9405

Largueur de fenêtre > 900mm: Appliquer 2 FERMETURE 9400 + 2 CONTRE-FERMETURE 9405



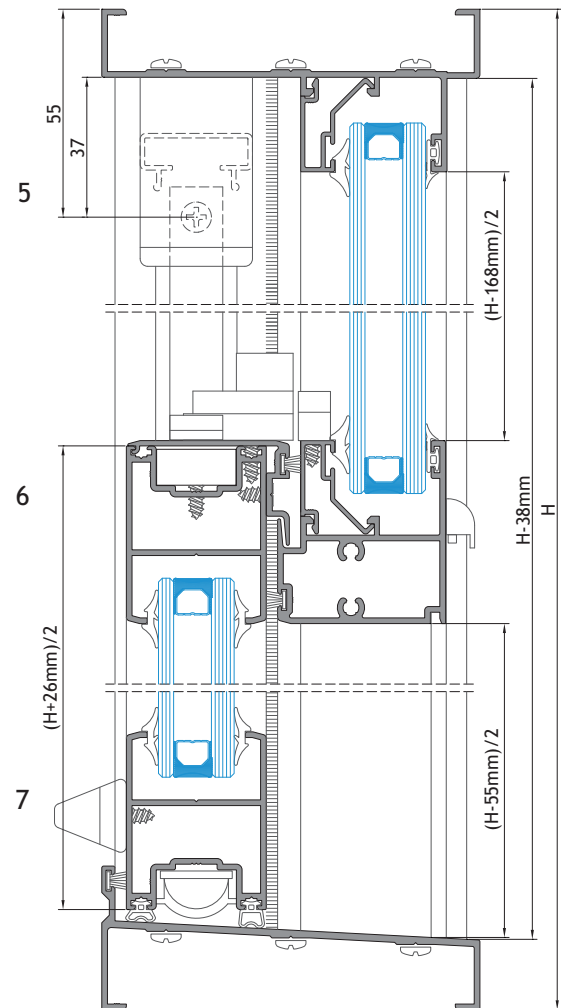
1

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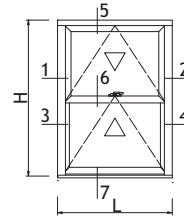


ESC: 1/2



# JANELA DE GUILHOTINA - TIPOLOGIA MÓVEL + MÓVEL

SASH WINDOW - DOUBLE SASH WINDOW TYPOLOGY  
FENÊTRE À GUILLOTINE - TYPOLOGIE MOBILE + MOBILE



ALTURA MÍNIMA DO VÃO: 500mm  
ALTURA MÁXIMA DO VÃO: 2500mm

MINIMUM HEIGHT: 500mm  
MAXIMUM HEIGHT: 2500mm

HAUTEUR MINIMALE: 500mm  
HAUTEUR MAXIMALE: 2500mm

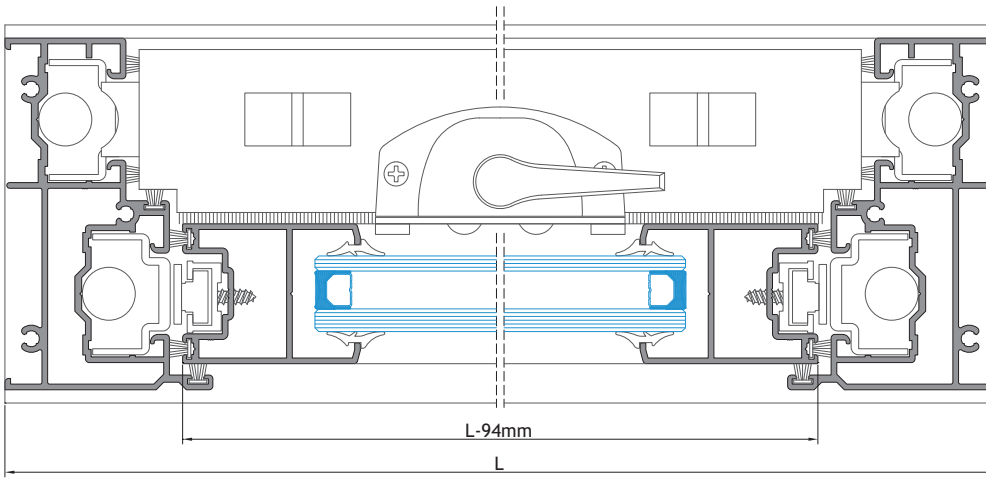
PERFIS PROFILES   PROFILS				
REFERÊNCIA REFERENCE REFERÉNCIA	CORTE HORIZONTAL HORIZONTAL DETAIL DÉTAIL HORIZONTAL	CORTE VERTICAL VERTICAL DETAIL DÉTAIL VERTICALE	QUANTIDADE QUANTITY QUANTITÉ	CORTE CUT COUPÉ
JG-04	L	-	2	
JG-08	-	H-38	2	
JG-17	L-94	-	2	
JG-17	L-71	-	2	
JG-17	-	(H-14)/2	4	
JG-14	L-94	-	1	
JG-14	L-71	-	1	
JG-27	L-94	-	1	
JG-26	Diverso   Diverse   Divers	Diverso   Diverse   Divers	4	

● Perfis com corte de 3° | Profiles with 3° cuts | Profils avec coupe de 3°  
\* Medidas de corte em função da mola | Cutting measures according Balances | mesures de coupé selon la Ressort

VEDANTES SEALANTS   JOINTS		
CÓDIGO CODE	DESIGNAÇÃO DESIGNATION   DÉSIGNATION	QUANTIDADE QUANTITY   QUANTITÉ
VARIÁVEL VARIABLE	JUNTA PARA VIDRO   GLAZING GASKET (IN/OUT)   JOINT (EXT./INT.)	8L+4H
208277	VD 2044	4L
208564	PELÚCIA 4.8x7   PLUSH   JOINT BROSSE	3L+8H
208560	PELÚCIA 4.8x10 S-FIN   PLUSH   JOINT BROSSE	L

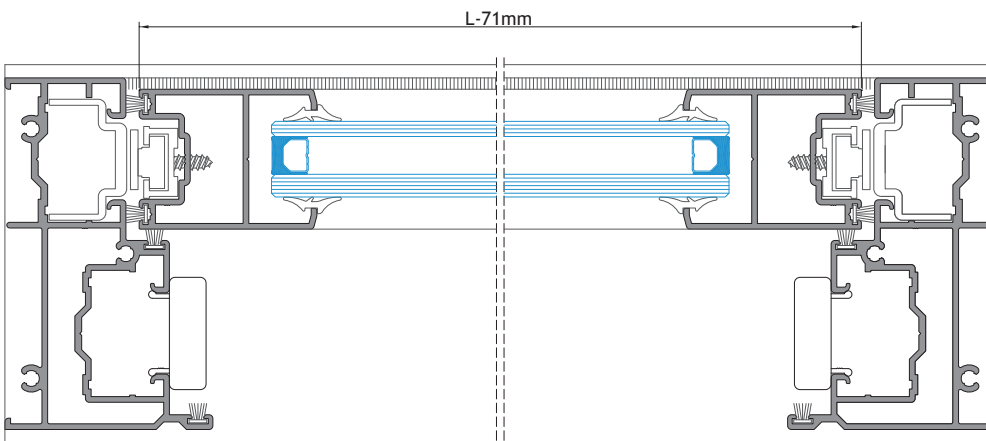
ACESSÓRIOS ACCESSORIES   ACCESSOIRES		
CÓDIGO CODE	DESIGNAÇÃO DESIGNATION   DÉSIGNATION	QUANTIDADE QUANTITY   QUANTITÉ
223003	KIT JUNTAS JG 4-8   GASKETS KIT   KIT DE JOINTS	1
200050	ASA 7761   SASH LIFT HANDLE   POIGNÉE POR GUILLOTINE	4
202052	450-folha   leaf   vantail < 650mm: COMP. RA250 JCQR+CALHA   FRICTION HINGE   COMPAS	(a) 4
202053	651-folha   leaf   vantail < 1200mm: COMP. RA350 JCQR+CALHA   FRICTION HINGE   COMPAS	(a) 4
202405	CONTRA-FECHO UK 240 (Pr./Br.)   COUNTER-LOCK   CONTRE-FERMETURE	1
219170	DESILIZADOR PIVOT UK 132   PIVOT SLIDER   COULISSE PIVOT	4
201500	FECHO P/GUILHOTINA 9400   SASH LOCKER   FERMETURE POUR GUILLOTINE	(c) 1
201458	FECHO-GUIA UK 144   LOCKER-GUIDE   FERMETURE-GUIDE	4
210175	TOPO P/GUILHOTINA UK 224   SASH END-CAP   EMBOUTE POUR GUILLOTINE	4
230302	SUPOORTE PIVOT UK 449   PIVOT BRACKET   SUPPORT PIVOT	4
215201	BARRA PIVOT ÂNGULO UK 446   PIVOT SHAFT   BARRE PIVOT	4
204321	ESQUADRO JG E. P.   BLOCKING BRACKET   ÉQUERRE	8
.....	CONJ. DE MOLAS F. SUPERIOR   UPPER SASH BALANCES   RESSORT SUPÉRIEUR	(b) 1
.....	CONJ. DE MOLAS F. INFERIOR   LOWER SASH BALANCES   RESSORT INFÉRIEUR	(b) 1

(a) Folha > 37kg: NÃO APLICAR ESTES ACESSÓRIOS | DO NOT APPLY THIS ACCESSORIES  
Leaf | Vantail > 37kg: DO NOT APPLY THIS ACCESSORIES | NE PAS APPLIQUER CE ACCESSOIRES  
(b) A definição das molas é executada pelo Dep. Técnico do GRUPO SOSOARES  
Balances are defined by GRUPO SOSOARES | Les Ressorts sont définies par GRUPO SOSOARES  
(c) Largura da janela > 900mm: Aplicar 2 FECHOS 9400 + 2 CONTRA-FECHOS 9405  
Frame width > 900mm: Appliquer 2 FERMETURE 9400 + 2 CONTRE-FERMETURE 9405



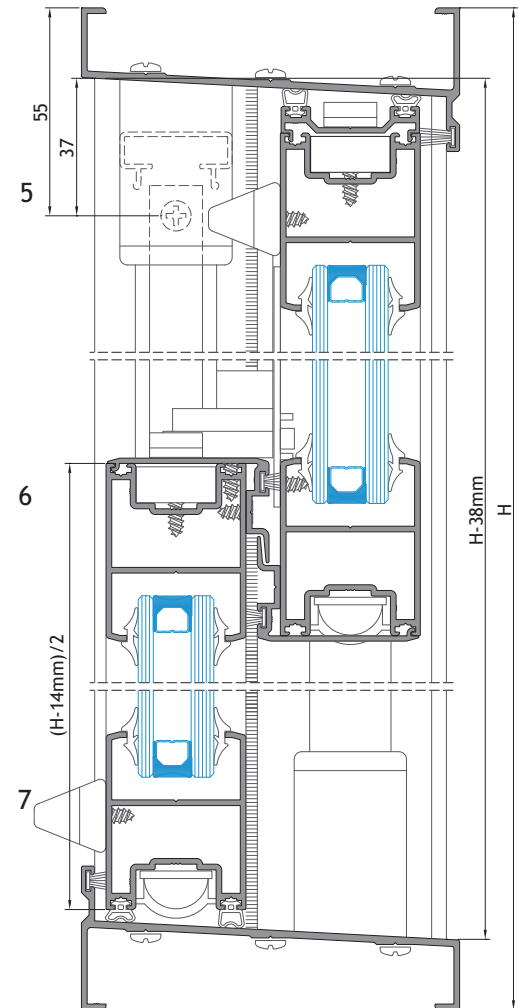
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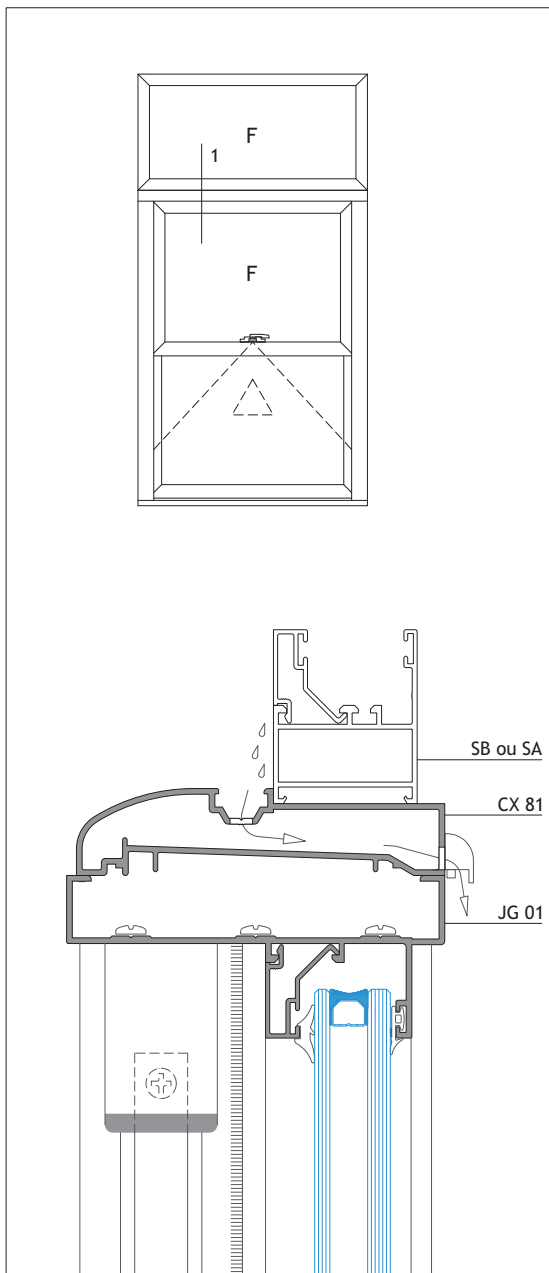
ESC: 1/2

**PORMENOR DE LIGAÇÃO A UM FIXO SUPERIOR**

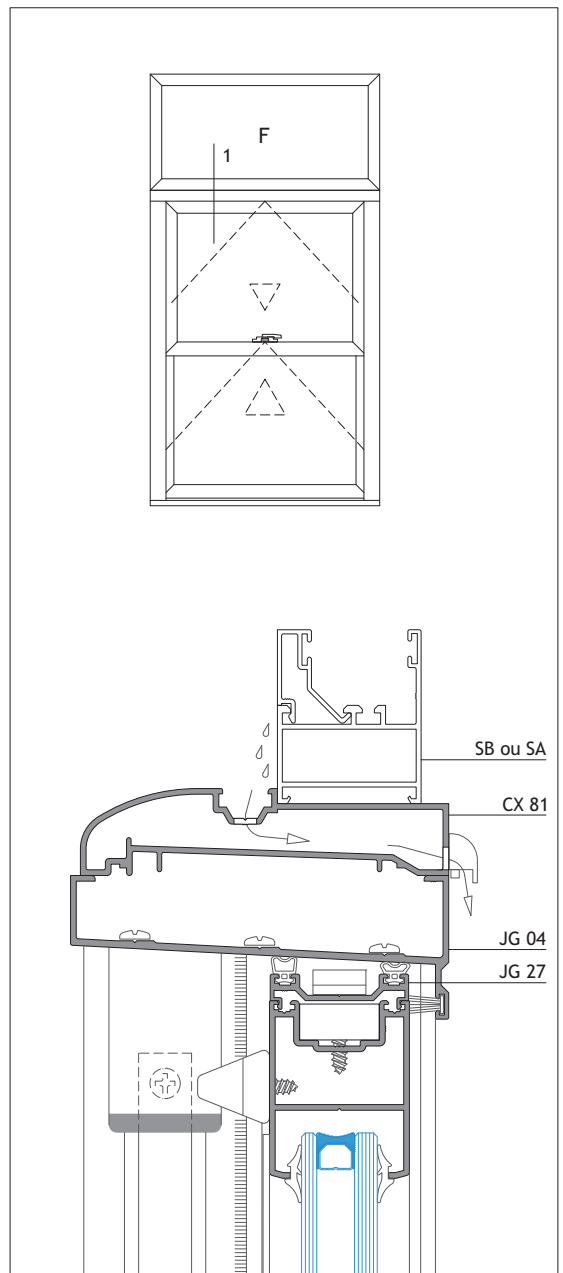
CONNECTION TO UPPER FIXED PANEL DETAIL

DÉTAIL DE CONNEXION À DESSUS FIXE

LIGAÇÃO DE JANELA DE TIPOLOGIA MÓVEL + FIXO A FIXO SUPERIOR  
 SINGLE SASH WINDOW CONNECTION TO UPPER FIXED PANEL  
 CONNEXION DE FENÊTRE DE TYPOLOGIE MOBILE+ FIXE À DESSUS FIXE



LIGAÇÃO DE JANELA DE TIPOLOGIA MÓVEL + MÓVEL A FIXO SUPERIOR  
 DOUBLE SASH WINDOW CONNECTION TO UPPER FIXED PANEL  
 CONNEXION DE FENÊTRE DE TYPOLOGIE MOBILE+ MOBILE À DESSUS FIXE









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PERFIS DE ALUMÍNIO E VIDROS PARA ARQUITECTURA

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