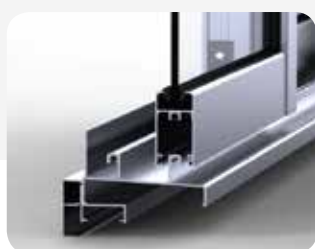




**olgacolor**  
Alumínio



 **AGLO**<sup>®</sup>2.5

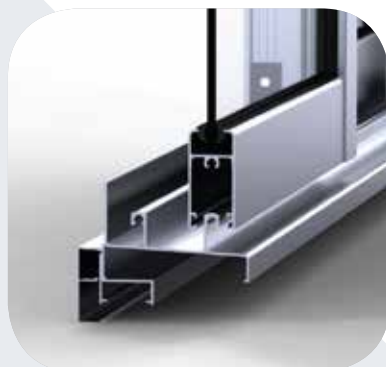
Catálogo de Técnico

 **AGLO**<sup>®</sup>2.5

Linha residencial completa para padrão médio alto. Atende plenamente as normas nas cinco regiões do país. Sistema construtivo a 90° no marco e folhas em portas, janelas, integradas, porta de giro e maximar, com contra marco e arremates. Pode ser usada nas versões com ou sem baguetes.

Componentes e ferramentas de usinagem fornecida pelos principais fabricantes do mercado. Produtividade vista e reconhecida na construção civil para fabricação e instalação.

- Max;
- Janelas e portas de correr;
- Linha leve;
- Arredondada;
- Alto desempenho e funcionalidade;
- Economia de 10% a 14% relacionado a principal linha da concorrência;
- Montagem 90°;
- Fácil usinagem e montagem;
- Acessórios de praça;
- Estampo de usinagem próprio.



# MAPAS DE ISOPLETAS

Determinação da pressão de ensaio que deve ser aplicada na esquadria conforme o local da edificação

1. Verifique no gráfico abaixo a velocidade do vento no local da edificação (Exemplo: Curitiba - Região IV - 45 m/s)

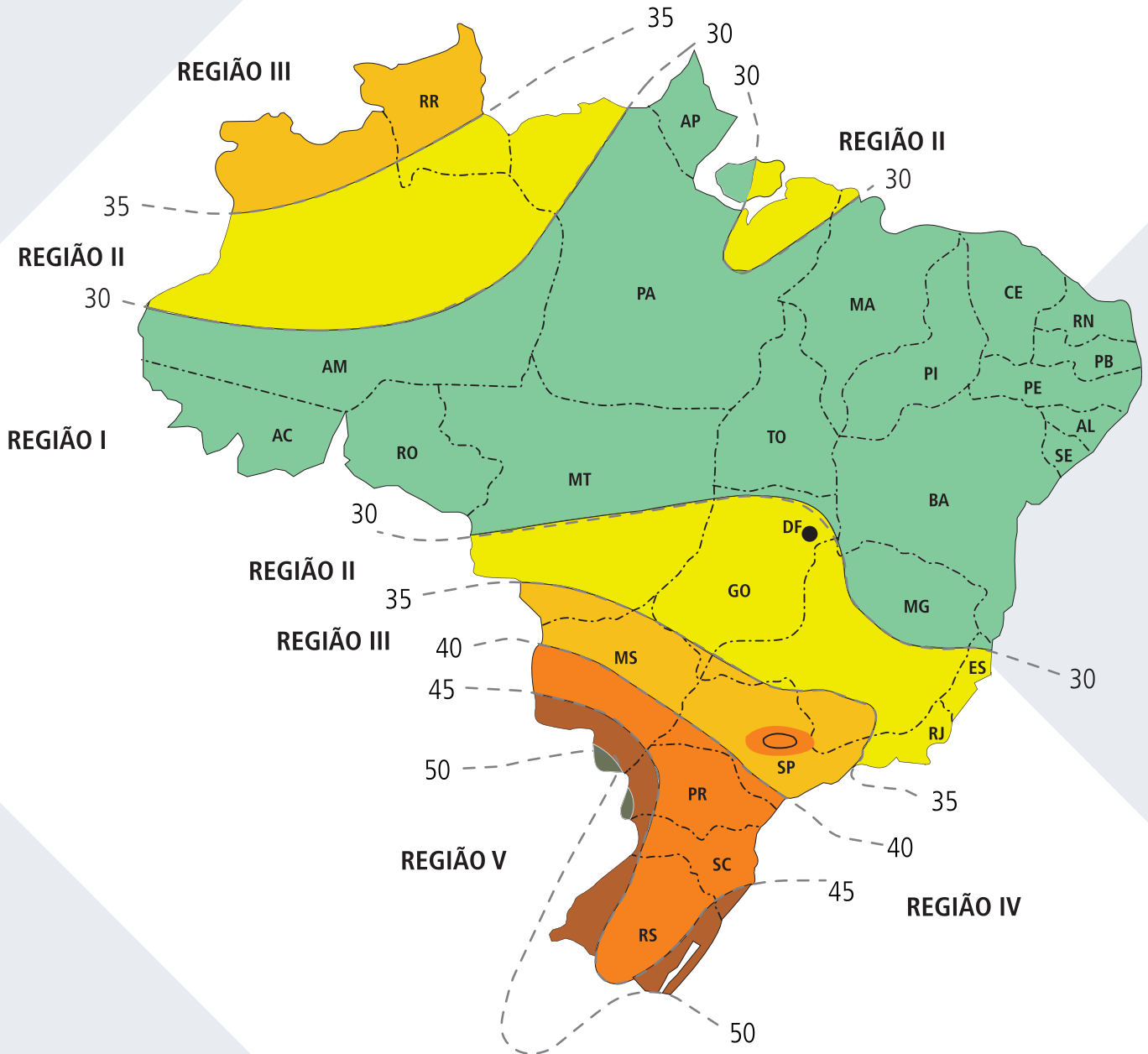






Figura 1

**GRÁFICO DAS ISOPLETAS DE VELOCIDADE BÁSICA DOS VENTOS (NBR-6123)**  
 (em metros por segundo)

-  Região I (30 ms)
-  Região II (35 ms)
-  Região III (40 ms)
-  Região IV (45 ms)
-  Região V (50 ms)

# NORMA ABNT NBR 10821-2:2011

2. Com a região encontrada no gráfico das isopletras, verifique na tabela abaixo a Pressão de Ensaio de acordo com a Altura ou quantidade de pavimentos de sua edificação;

**Tabela de pressão de ensaio de cargas uniformes distribuídas**

Quantidade de pavimentos	Altura máxima	Região do País	Pressão de ensaio $P_e$ , em (Pa) Positiva e negativa $P_e = P_a \times 1,2$	Pressão de segurança $P_s$ , em (Pa) Positiva e negativa $P_s = P_p \times 1,5$	Pressão de água $P_a$ , em (Pa) $P_a = P_p \times 0,20$
02	6 m	I	350	520	60
		II	470	700	80
		III	610	920	100
		IV	770	1160	130
		V	950	1430	160
05	15 m	I	420	640	70
		II	580	860	100
		III	750	1130	130
		IV	950	1430	160
		V	1180	1760	200
10	30 m	I	500	750	80
		II	680	1030	110
		III	890	1340	150
		IV	1130	1700	190
		V	1400	2090	230
20	60 m	I	600	900	100
		II	815	1220	140
		III	1060	1600	180
		IV	1350	2020	220
		V	1660	2500	280
30	90 m	I	660	980	110
		II	890	1340	150
		III	1170	1750	200
		IV	1480	2210	250
		V	1820	2730	300

3. Com a "Pressão de Ensaio" encontrada, é possível verificar nas páginas dos "Gráficos de Desempenho", as medidas máximas de largura e altura para as tipologias existentes em sua edificação, bastando para isso ligar os eixos de largura e altura na linha correspondente à pressão;

**ATENÇÃO:** Nos gráficos de desempenho a seguir, foram considerados os valores de "Pressão de Ensaio" de acordo com a norma **ABNT NBR 10821**. Para edifícios com especificações, localização, necessidades e exigências especiais de utilização, deve ser consultada a **ABNT NBR 6123** para a determinação da pressão do projeto ( $P_p$ ) e pressão de ensaio ( $P_e$ ), prevalecendo como mínimos os valores da tabela acima.

Tabela 3  
Fator topográfico de correção  $s_1$

Topografia	$S_1$
Vales profundos, protegidos de todos os ventos.	0,9
Encostas e cristas de morro em que ocorre aceleração do vento.	1,1
Vales com efeitos de afunilamento.	
Todos os casos, exceto os acima citados.	1

Tabela 4  
Fator de Correção  $s_2$   
Rugosidade do terreno, dimensões da edificação e altura acima do terreno.

Altura acima do terreno H (m)	CATEGORIA			
	Terreno aberto sem obstruções	Terreno aberto com poucas obstruções	Terreno com muitas obstruções; pequenas cidades; subúrbios de grandes cidades	Terreno com obstruções grandes e frequentes Ex: centros de grandes cidades
3	0,83	0,72	0,64	0,56
5	0,88	0,79	0,70	0,60
10	1,00	0,93	0,78	0,67
15	1,03	1,00	0,88	0,74
20	1,06	1,03	0,95	0,79
30	1,09	1,07	1,01	0,90
40	1,12	1,10	1,05	0,97
50	1,14	1,12	1,08	1,02
60	1,15	1,14	1,10	1,05
80	1,18	1,17	1,13	1,10
100	1,20	1,19	1,16	1,13
120	1,22	1,21	1,18	1,15
140	1,24	1,22	1,20	1,17
160	1,25	1,24	1,21	1,19
180	1,26	1,25	1,23	1,20
200	1,27	1,26	1,24	1,22

Fator Probabilístico  $s_3 = 0,88$

## Descrição do exemplo a ser calculado

Obra localizada em São Paulo, REGIÃO III, em local de terreno aberto e poucas obstruções, com 16 pavimentos ( $\pm 50$  metros).  
Vide tabela 4, 3.<sup>a</sup> coluna.

## EXEMPLO SIMPLIFICADO DE PRESSÃO DE ENSAIO NA CLASSE REFORÇADA.

**P = Pressão de Ensaio**

$$P = q \cdot (C_e - C_i)$$

onde:

**P** = Pressão de Ensaio (Pa)

**q** = Pressão de Obstrução (Pa)

**C<sub>e</sub>-C<sub>i</sub>** = Para este exemplo, adotamos o valor de 1,5 para **(C<sub>e</sub>-C<sub>i</sub>)** que é um coeficiente válido para condições desfavoráveis.

**q = Pressão de Obstrução**

$$q = \frac{(VK)^2}{1,6}$$

onde:

**VK = Velocidade Características do Vento**

$$VK = V_0 \cdot S_1 \cdot S_2 \cdot S_3$$

onde:

**V<sub>0</sub>** Velocidade Básica do Vento em m/s, dada pelas isopletras. (Figura 1)

**S<sub>1</sub>** Fator Topográfico de Correção, dado pela tabela 3.

**S<sub>2</sub>** Fator de Correção que considera as influências da rugosidade do terreno, das dimensões da edificação e de sua altura sobre o terreno, dado pela tabela 4.

**S<sub>3</sub>** Fator Probabilístico, de valor igual a 0,88.

$$1) VK = V_0 \cdot S_1 \cdot S_2 \cdot S_3$$

onde:

$$V_0 = 40 \text{ m/s}$$

$$S_1 = 1$$

$$S_2 = 1,12$$

$$S_3 = 0,88$$

$$VK = 39,42 \text{ m/s}$$

$$2) q = \frac{(VK)^2}{1,6}$$

$$q = 971 \text{ Pa (também é igual a Pressão de Projeto = Pp)}$$

$$3) P = q \cdot (C_e - C_i)$$

$$P = 1457 \text{ Pa ou } 145,7 \text{ kg/m}^2$$

**Conclusão deste exemplo:**

a) Para efeito de cálculo estrutural, temos que utilizar o valor de

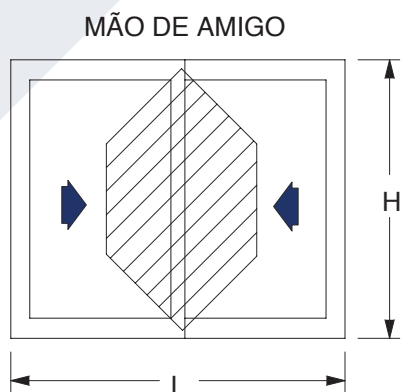
$$145,7 \text{ kg/m}^2 \text{ ou } 1457 \text{ Pa}$$

b) Para efeito de ensaio de estanqueidade à água, temos que utilizar o valor que representa 15% do valor da Pressão de Projeto, que é

$$97,1 \text{ kg/m}^2 \text{ ou } 971 \text{ Pa,}$$

cujo valor é

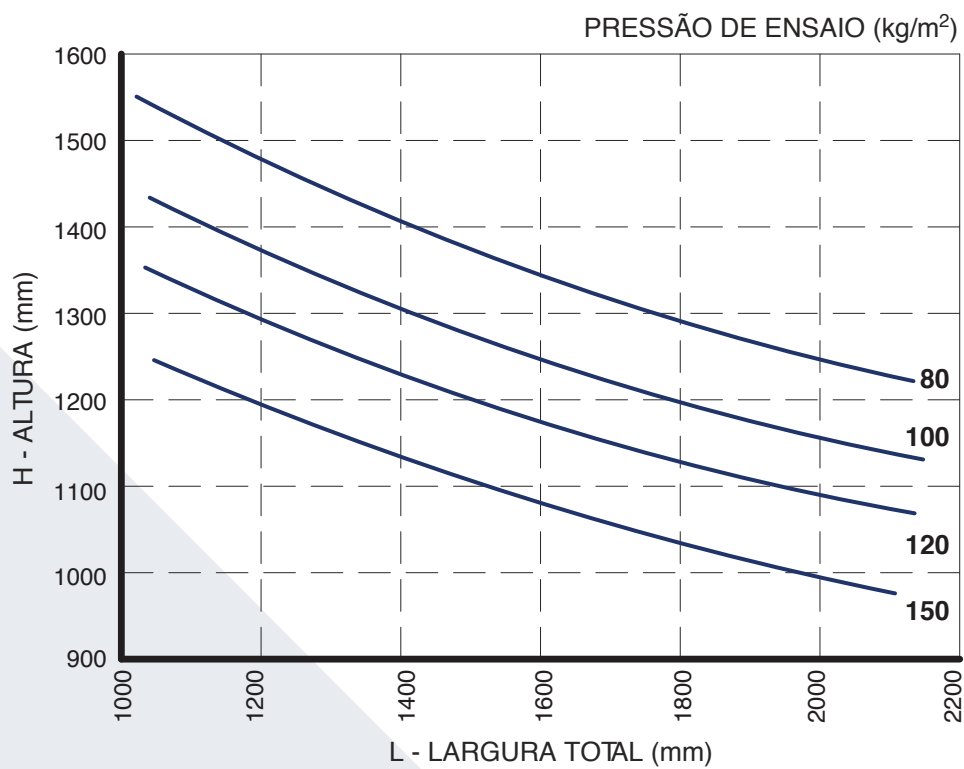
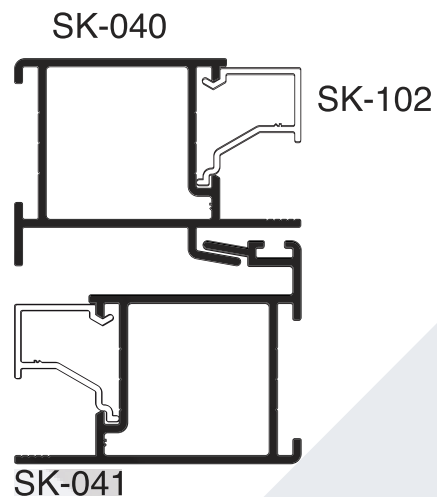
$$14,6 \text{ kg/m}^2 \text{ ou } 140 \text{ Pa}$$

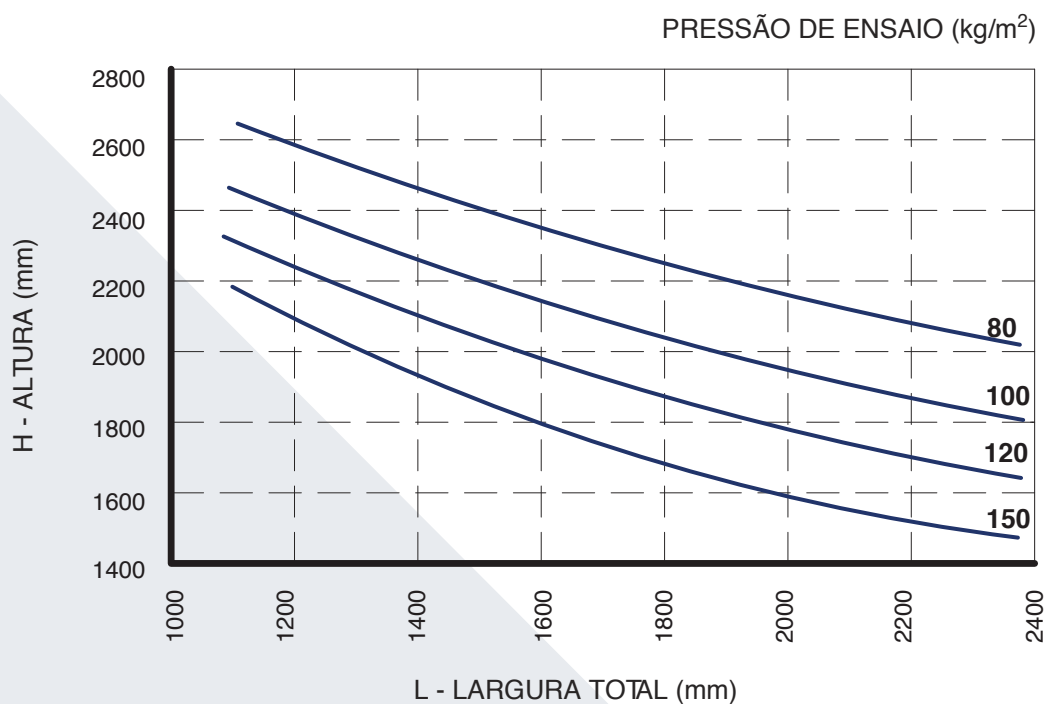
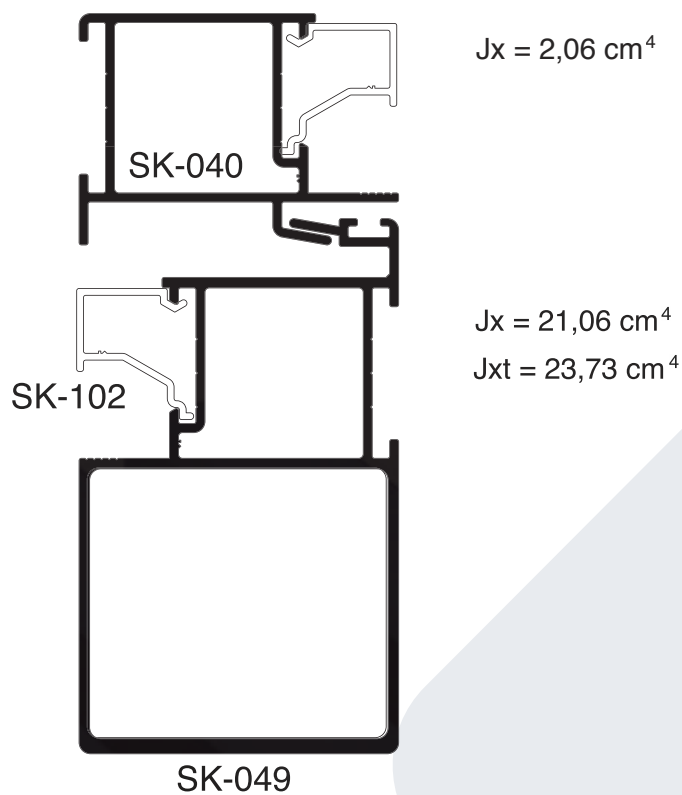
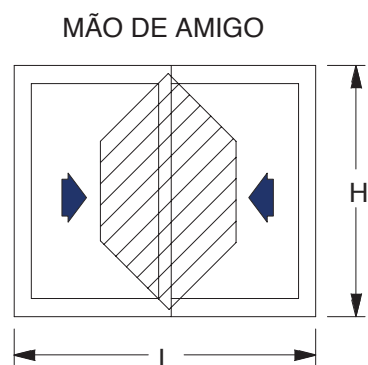
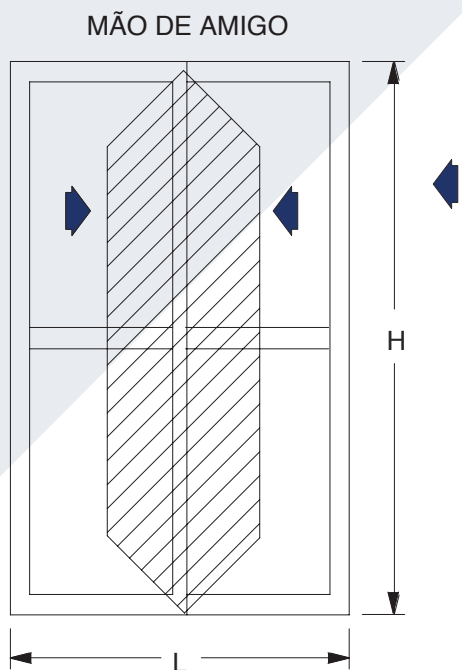


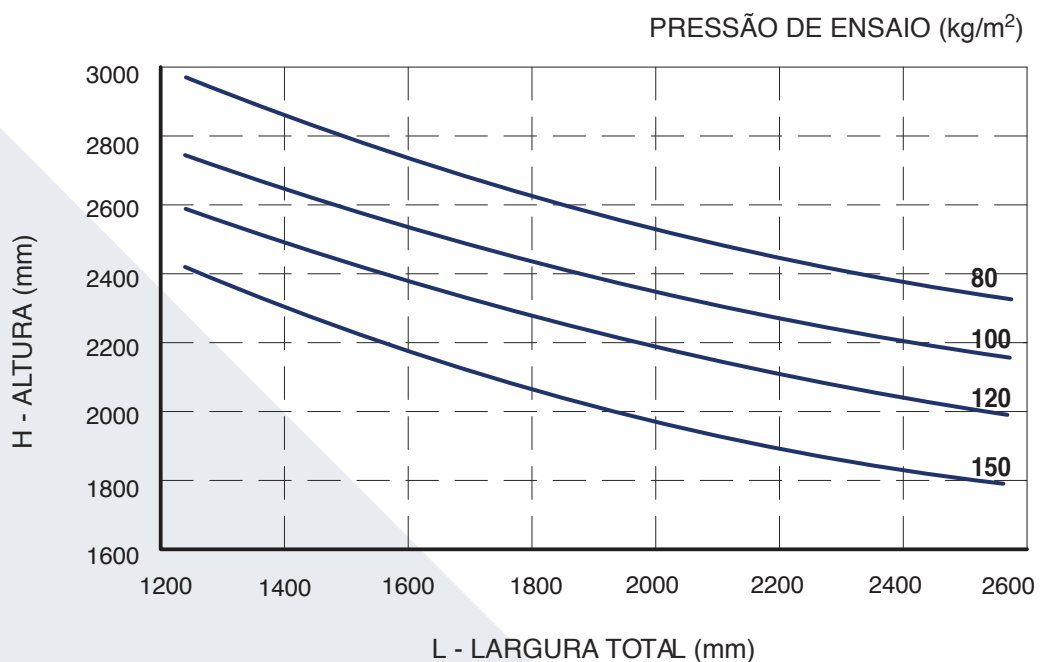
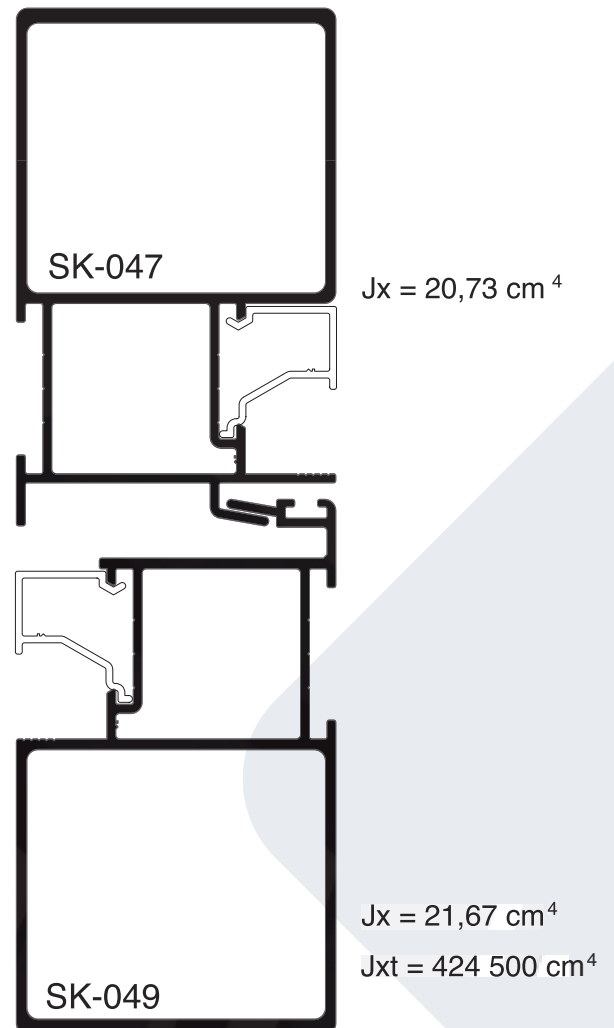
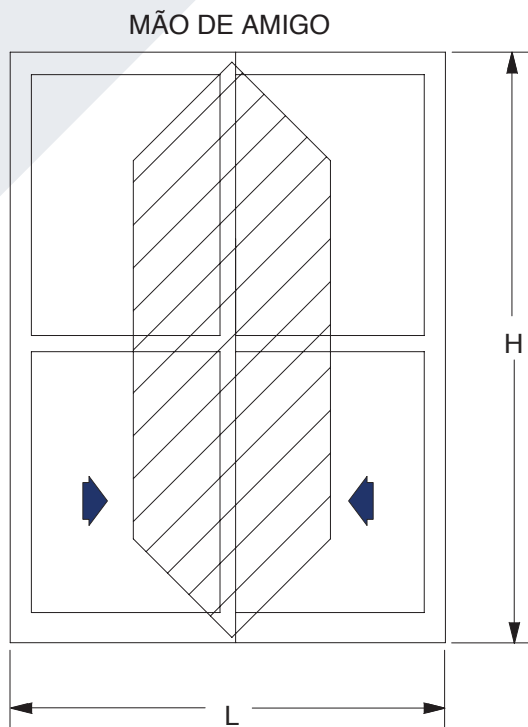
$$J_x = 2,06 \text{ cm}^4$$

$$J_x = 2,06 \text{ cm}^4$$

$$J_{xt} = 4,66 \text{ cm}^4$$



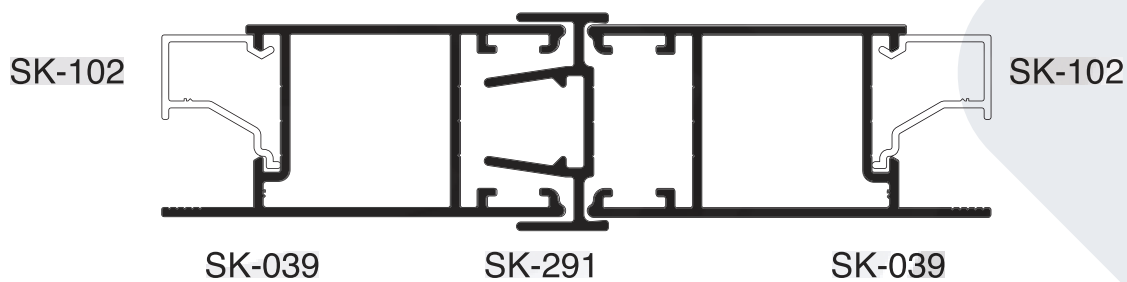
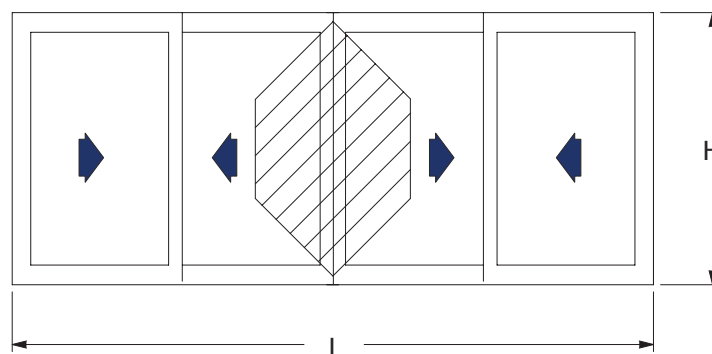




OBS.: Não ultrapassar 70kg por folha.



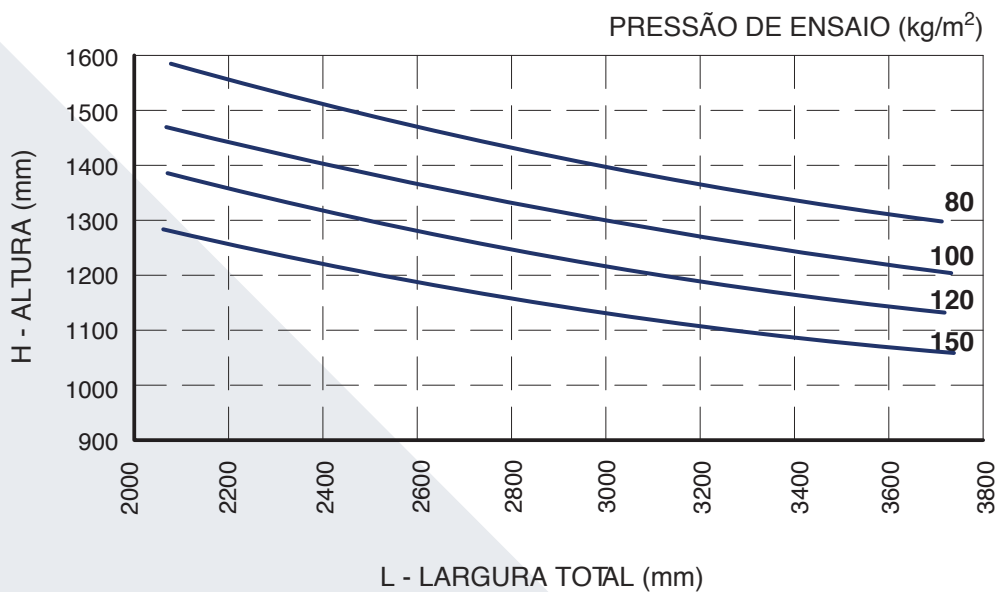
## CENTRAL 4 FOLHAS



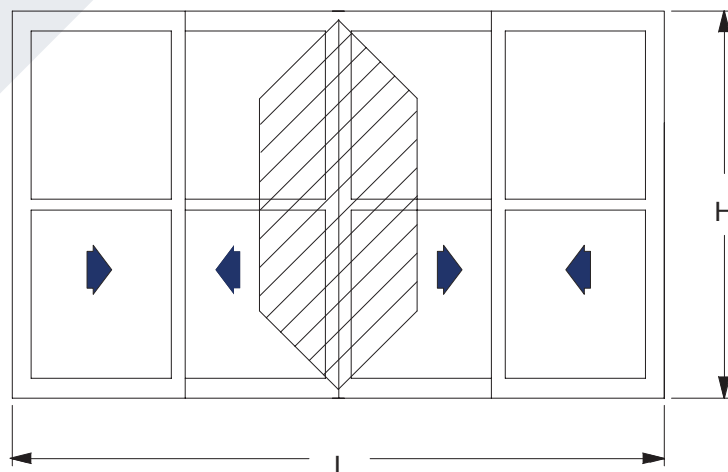
$J_x = 2,15 \text{ cm}^4$

$J_x = 3,06 \text{ cm}^4$

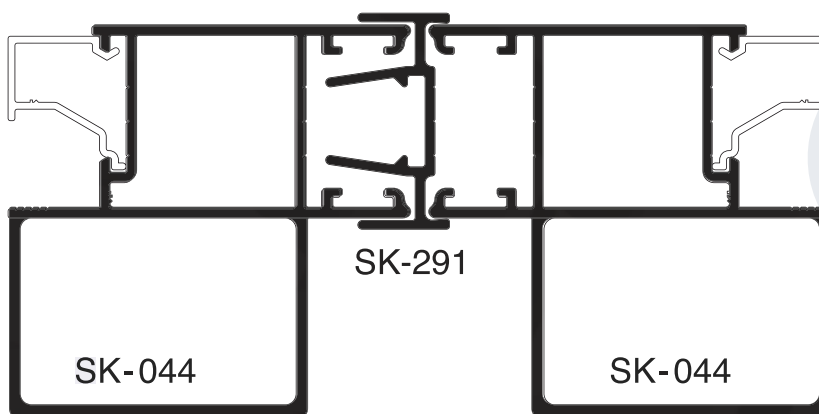
$J_{xt} = 5,21 \text{ cm}^4$



## CENTRAL 4 FOLHAS

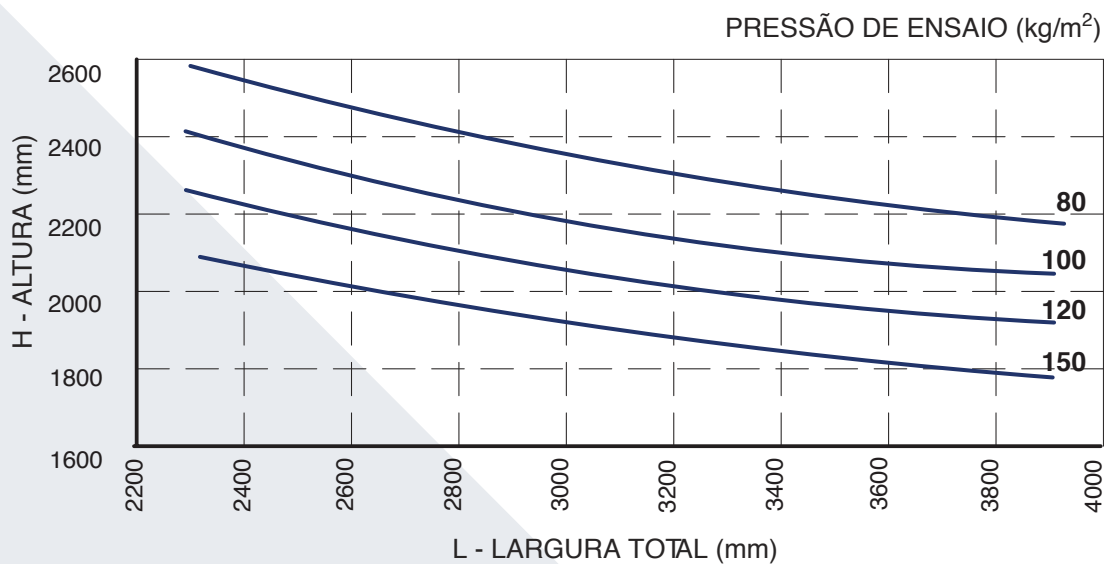


SK-102  
 $J_x = 11,73 \text{ cm}^4$



SK-102  
 $J_x = 12,64 \text{ cm}^4$

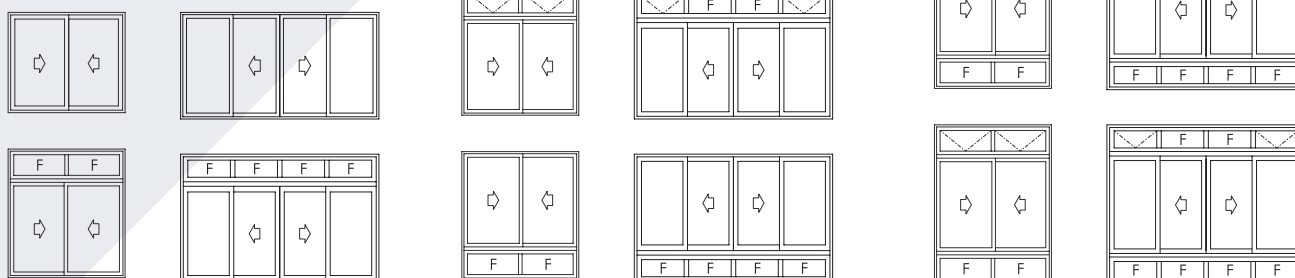
$J_{xt} = 24,37 \text{ cm}^4$



OBS.: Não ultrapassar 70kg por folha.

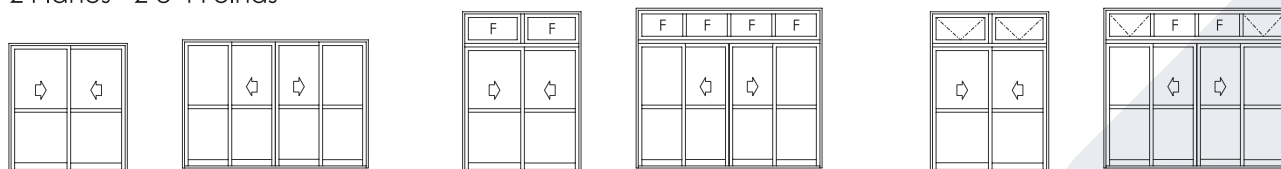
## Janelas de Correr

2 Planos - 2 e 4 Folhas



## Portas de Correr

2 Planos - 2 e 4 Folhas



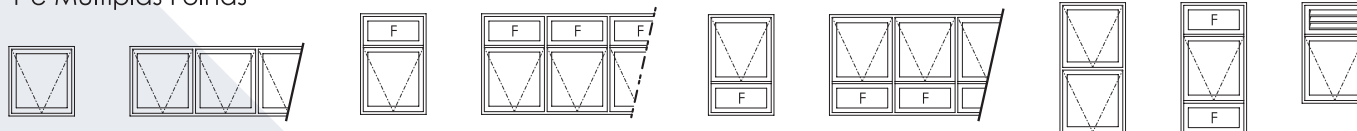
## Janelas e Portas de Correr

3 Planos - 3 e 6 Folhas

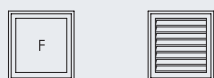


## Janelas Maxim-ar

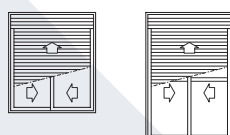
1 e Múltiplas Folhas



## Quadros Fixos



## Janela e Porta Integradas



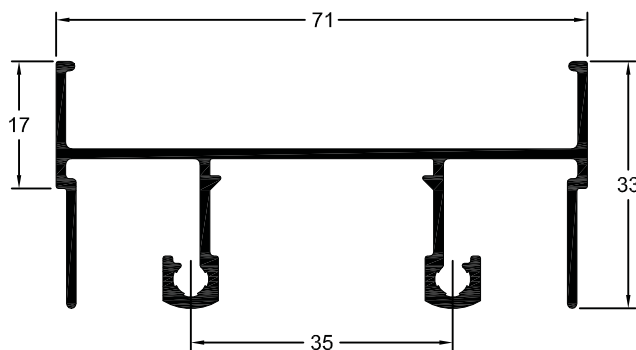
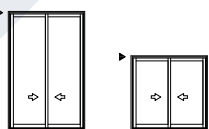


**PERFIS**

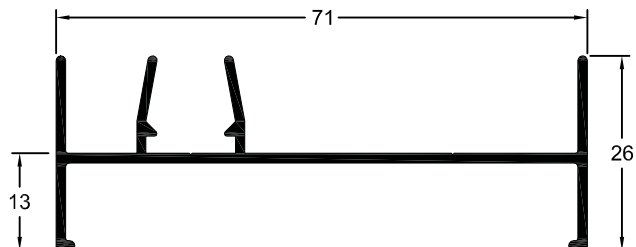
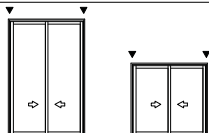
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AE-281 / AK-G03	31	SK-041 / SU-041	19
AE-282 / AK-G04	30	SK-042 / SU-042	19
AK-G05	32	SK-043 / SU-043	19
GS-056	21	SK-044 / SU-044	19
GS-131	03	SK-047 / SU-047	20
GS-132	03	SK-049 / SU-049	20
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SK-005 / SU-005	09	SK-068 / SU-068	23
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SK-028 / SU-028	05	SK-091 / SU-091	26
SK-029 / SU-029	06	SK-093 / SU-093	26
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SK-110 / SU-110	29	SK-293	32
SK-111 / SU-111	30	SK-302 / SU-302	15
SK-121 / SU-121	36	SK-304	32
SK-122 / SU-122	37	SK-305	38
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SK-186 / SU-186	21	SK-401 / E-7220	09
SK-187 / SU-187	21	SK-402 / AN-3483	29
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SK-193 / AE-193	27	SK-406	35
SK-194 / AE-194	06	SK-407	34
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SK-199 / AE-199	25	SK-409	35
SK-200 / SU-200	25	SK-410	36
SK-214 / SU-214	20	SK-411	36
SK-225 / SU-225	17	SK-412	33
SK-226 / SU-226	17	SK-413	35
SK-227 / SU-227	16	SK-414	33
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SK-230 / SU-230	10	SK-629 / BS-629	27
SK-232 / SU-232	34	SK-901 / SU-901	27
SK-233 / SU-233	07	SU-108	39
SK-241 / SU-241	30	SU-292	39
SK-250 / SU-250	18		
SK-251 / SU-251	04		
SK-253 / SU-253	07		
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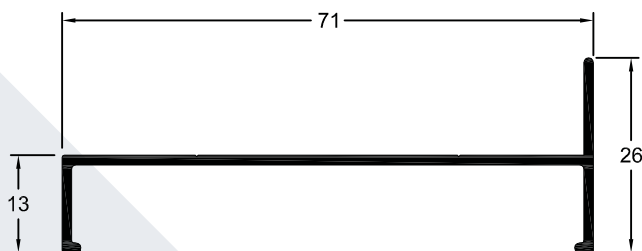
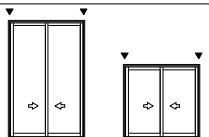
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MARCO-TRILHO SUPERIOR	
JANELAS E PORTAS	



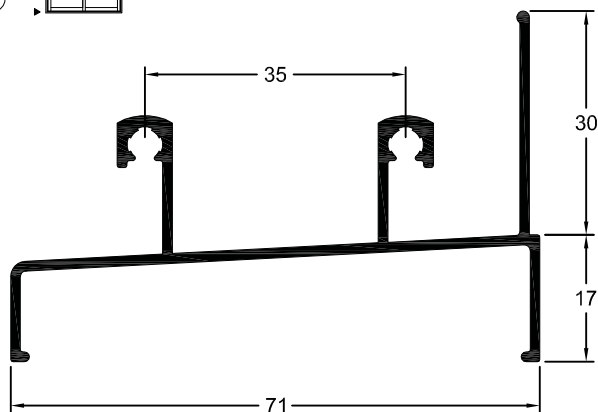
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PESO - 0.526 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



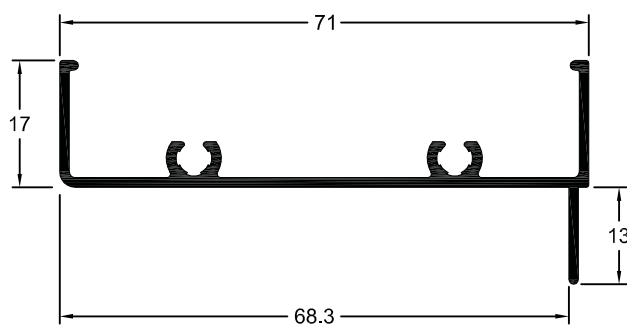
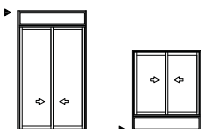
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PESO - 0.385 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



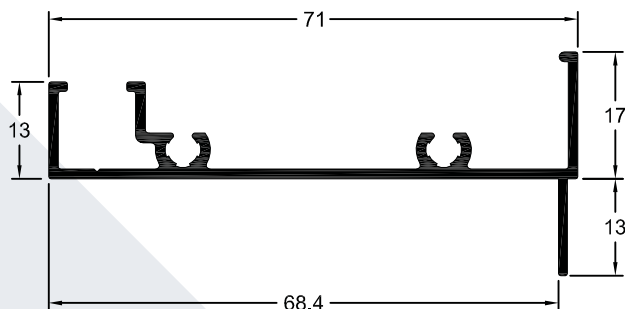
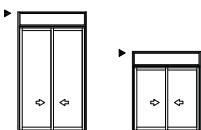
SK-002	SU-002
PESO - 0.691 Kg/m	
MARCO-TRILHO INFERIOR	
JANELAS	



SK-004	SU-004
PESO - 0.504 Kg/m	
MARCO-TRAVESSA	
JANELAS E PORTAS	

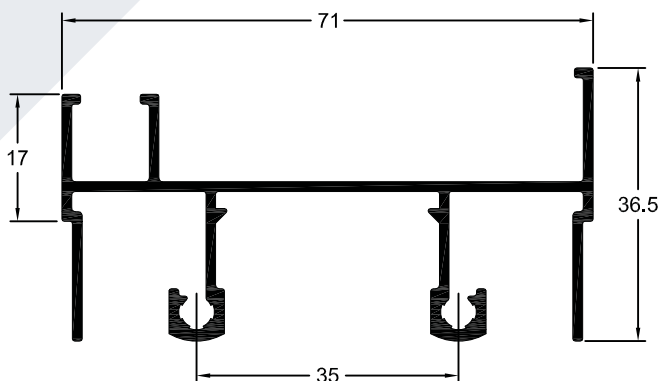
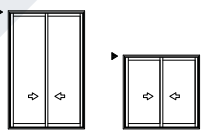


AE-196
PESO - 0.525 Kg/m
MARCO-TRAVESSA
JANELAS E PORTAS

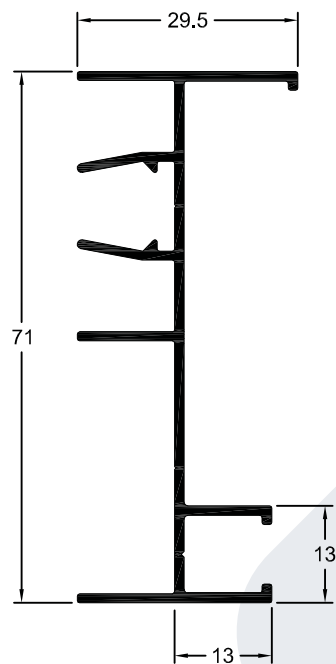
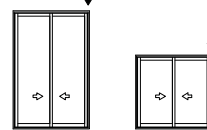




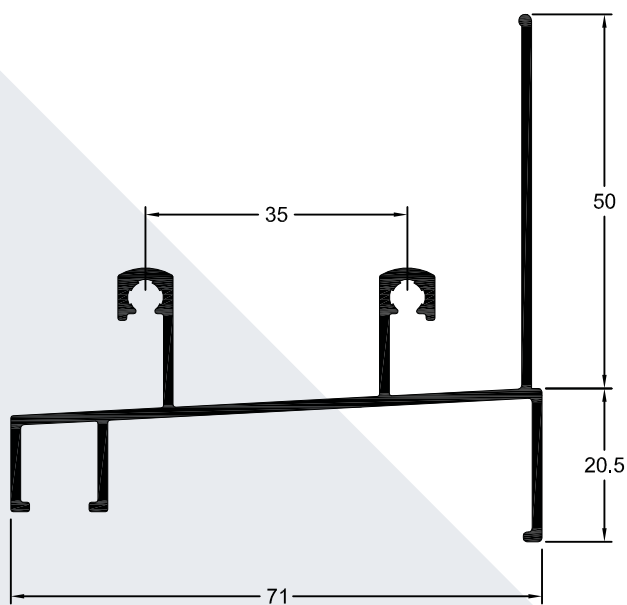
GS-134  
PESO - 0.813 Kg/m  
MARCO-TRILHO SUPERIOR  
JANELAS E PORTAS



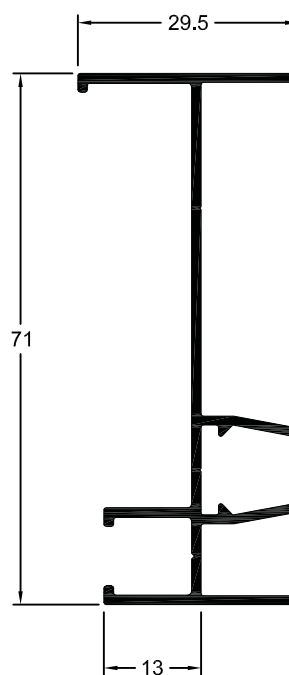
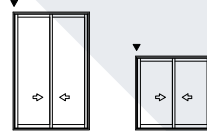
GS-132  
PESO - 0.618 Kg/m  
MARCO-MONTANTE LATERAL  
JANELAS E PORTAS



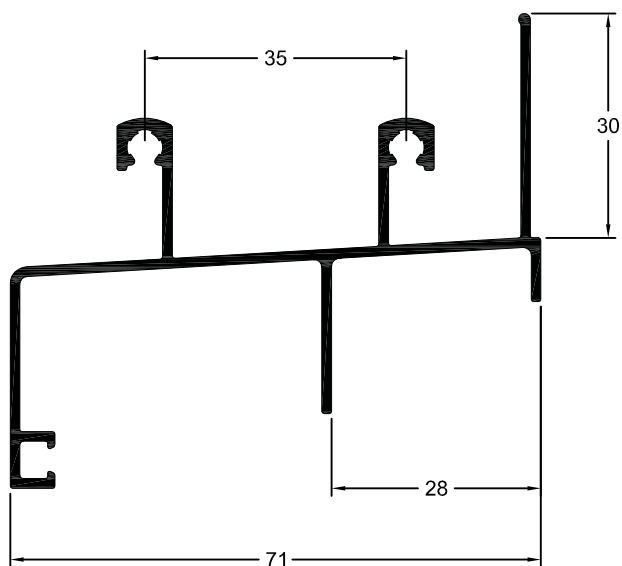
AE-200  
PESO - 0.824 Kg/m  
MARCO-TRILHO INFERIOR  
JANELAS



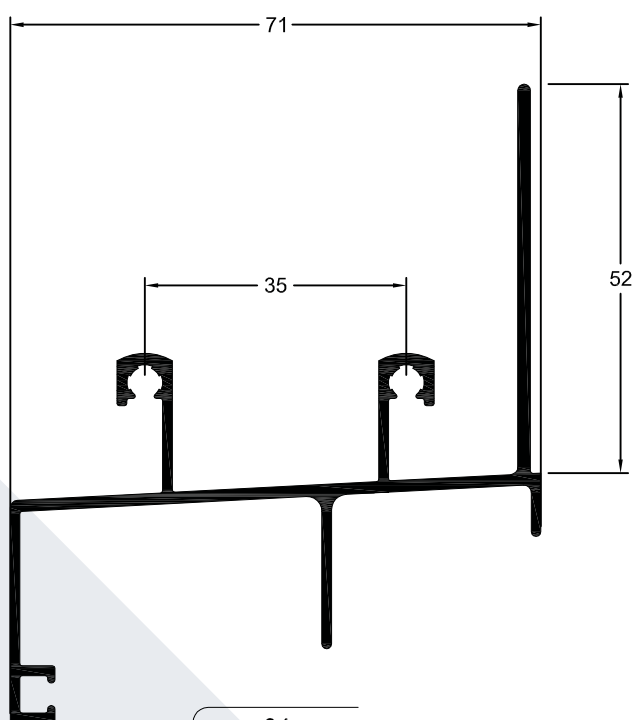
GS-131  
PESO - 0.577 Kg/m  
MARCO-MONTANTE LATERAL  
JANELAS E PORTAS



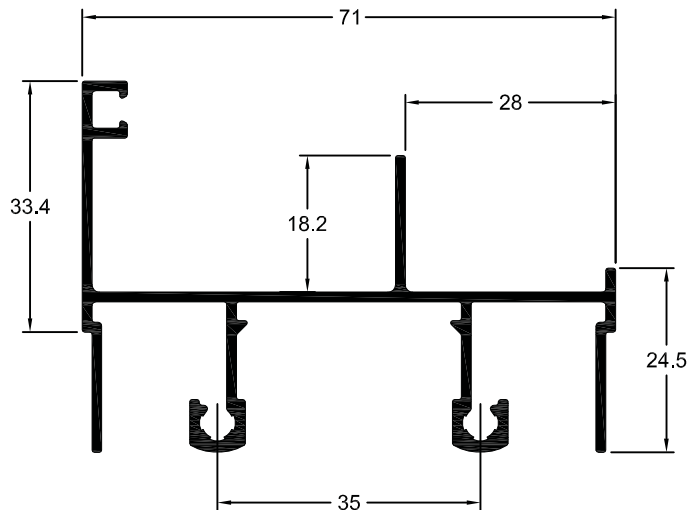
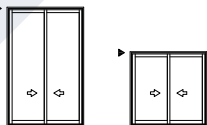
SK-027	SU-027
PESO - 0.826 Kg/m	
MARCO-TRILHO INFERIOR	
JANELAS	



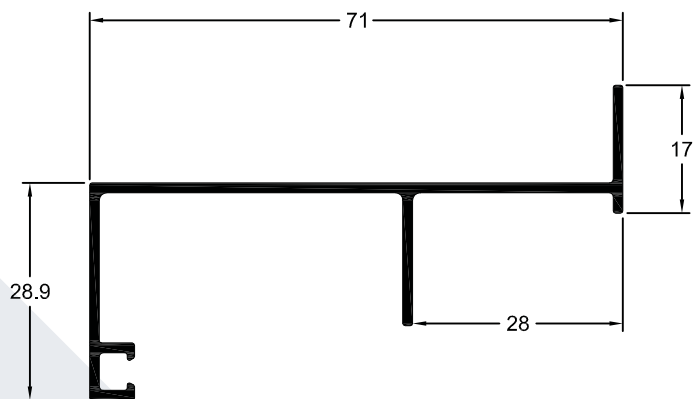
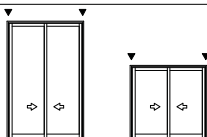
SK-251	SU-251
PESO - 1.000 Kg/m	
MARCO-TRILHO INFERIOR	
JANELAS	



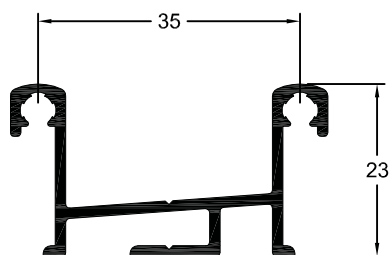
SK-026	SU-026
PESO - 0.878 Kg/m	
MARCO-TRILHO SUPERIOR	
JANELAS E PORTAS	



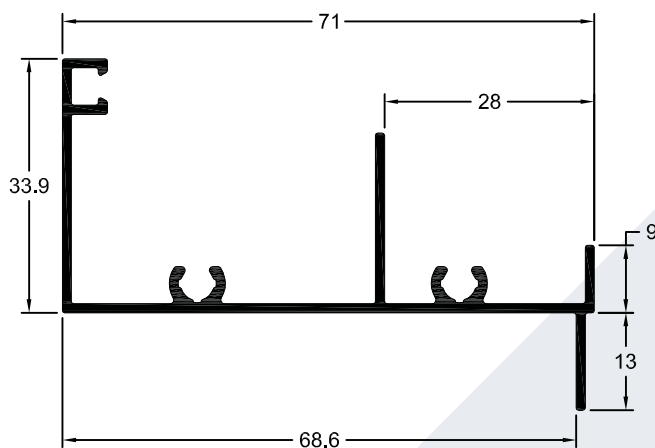
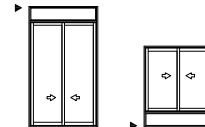
SK-028	SU-028
PESO - 0.504 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



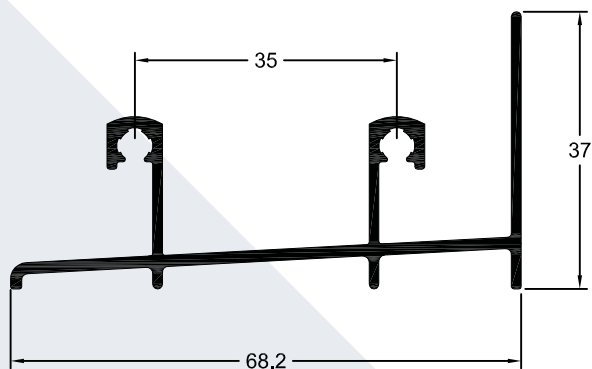
SK-272	SU-272
PESO - 0.452 Kg/m	
MARCO-TRILHO INFERIOR	
PORTAS	



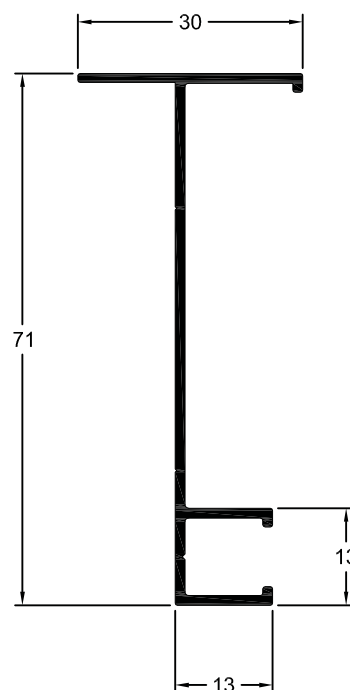
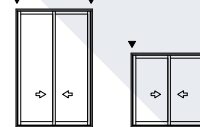
SK-029	SU-029
PESO - 0.607 Kg/m	
MARCO-TRAVESSA	
JANELAS E PORTAS	



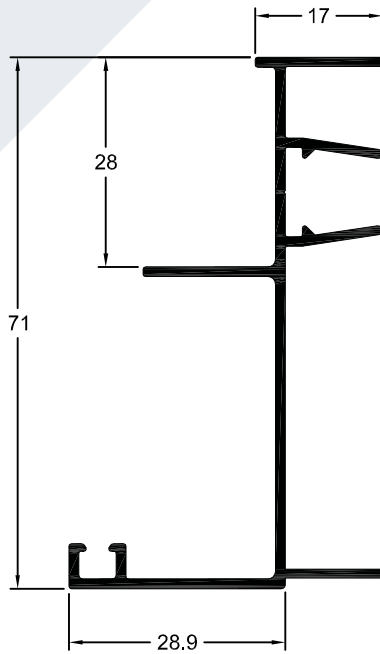
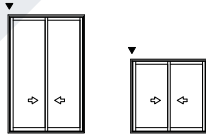
SK-228	SU-228
PESO - 0.667 Kg/m	
MARCO-TRILHO INFERIOR	
PORTAS	



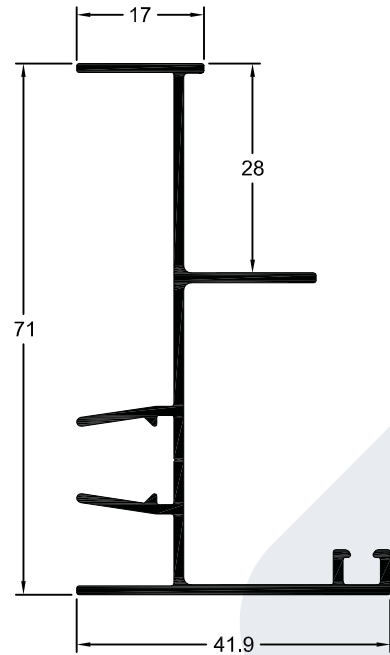
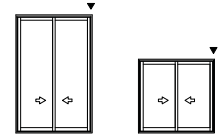
SK-194	AE-194
PESO - 0.441 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



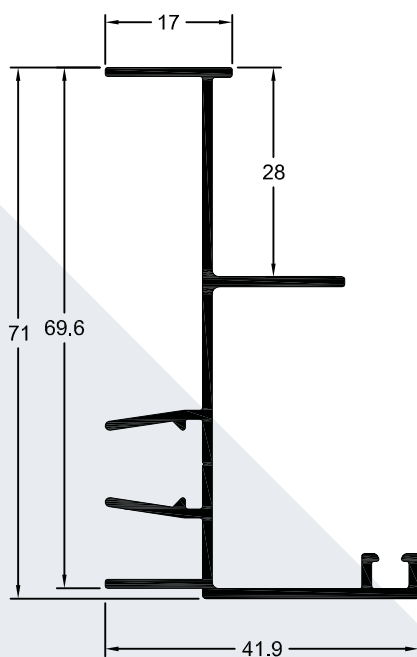
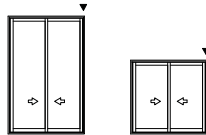
SK-253	SU-253
PESO - 0.637 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



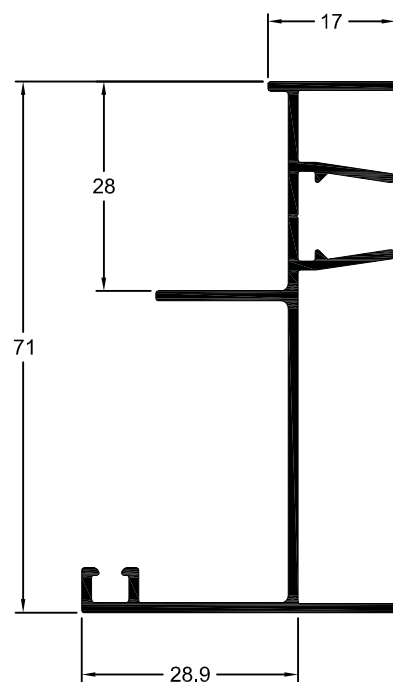
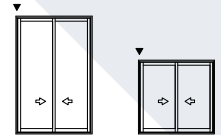
SK-233	SU-233
PESO - 0.637 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



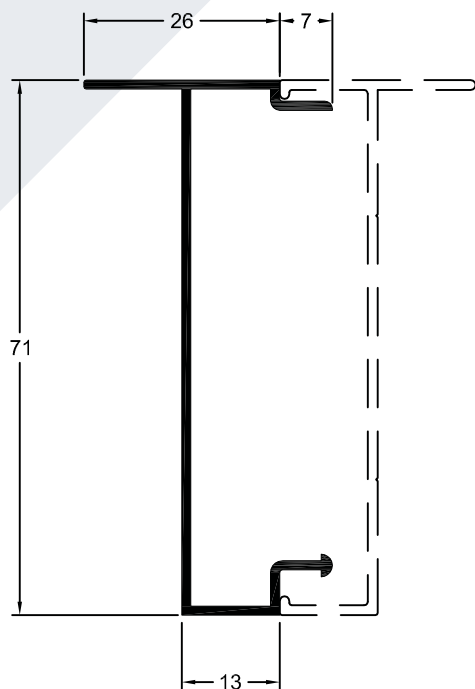
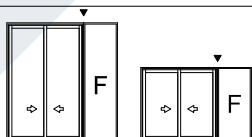
SK-254	SU-254
PESO - 0.637 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



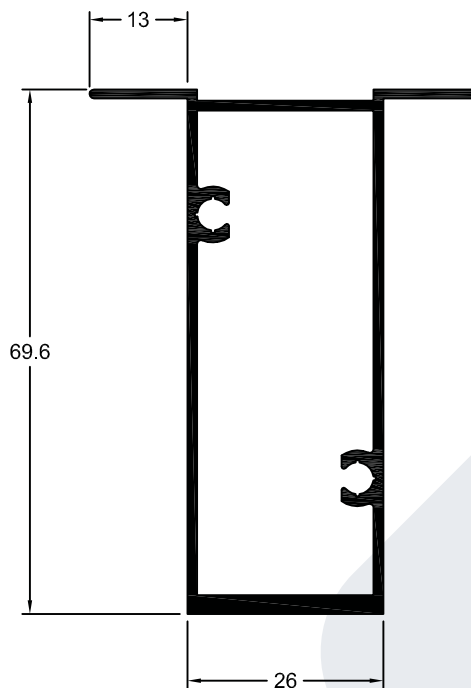
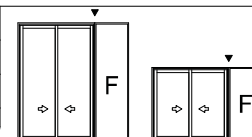
SK-284	SU-284
PESO - 0.637 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



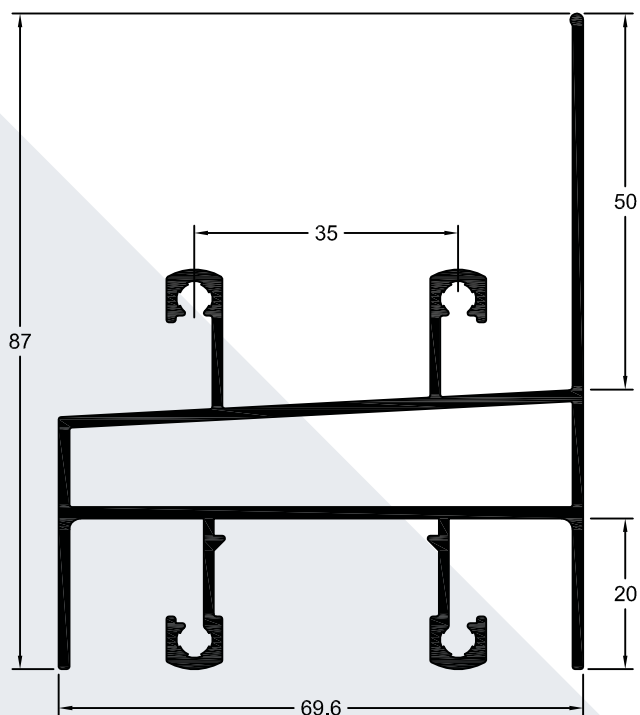
SK-036	SU-036
PESO - 0.425 Kg/m	
MARCO-MACHO E FÊMEA	
JANELAS E PORTAS	



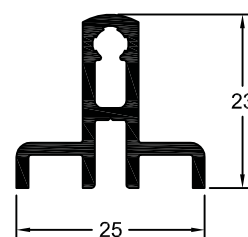
SK-009	SU-009
PESO - 0.908 Kg/m	
COLUNA	
JANELAS E PORTAS	



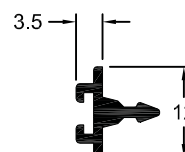
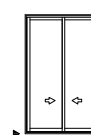
SK-195	AE-195
PESO - 1.498 Kg/m	
TRAVESSA-DUPLA	
JANELAS	



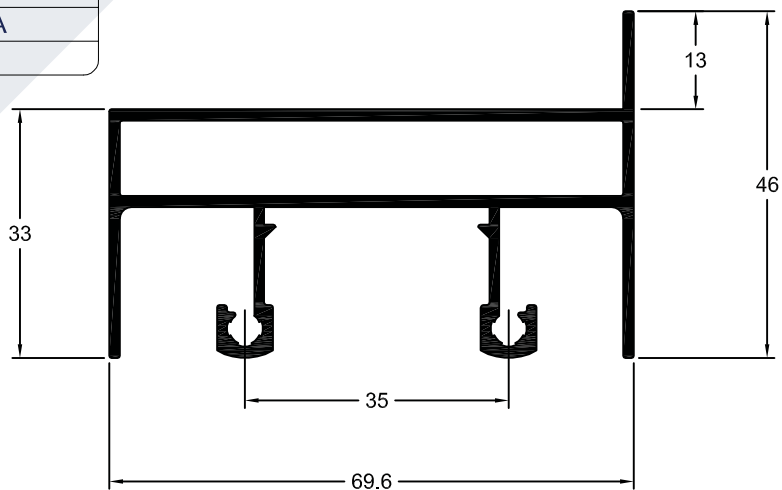
SK-271	SU-271
PESO - 0.349 Kg/m	
MARCO-TRILHO INFERIOR	
PORTAS	



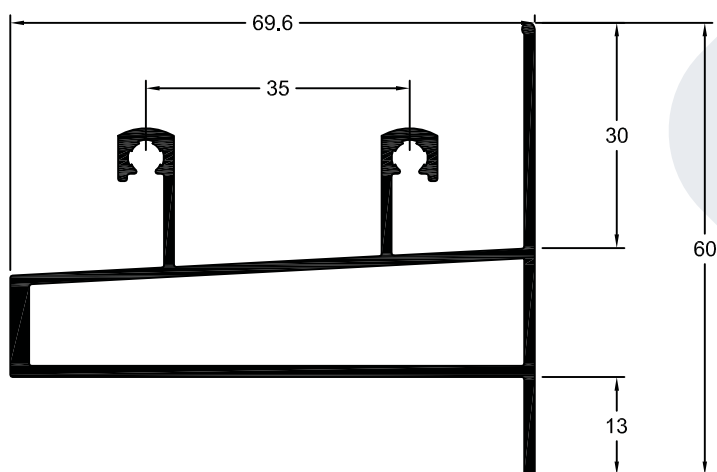
GS-133
PESO - 0.106 Kg/m
COMPLEMENTO
JANELAS E PORTAS



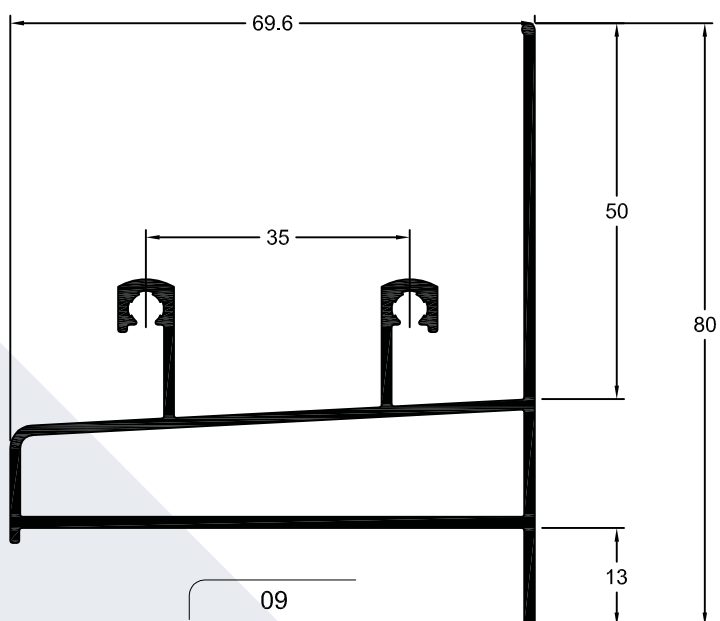
SK-005	SU-005
PESO - 1.108 Kg/m	
TRAVESSA-BANDEIRA	
JANELAS E PORTAS	



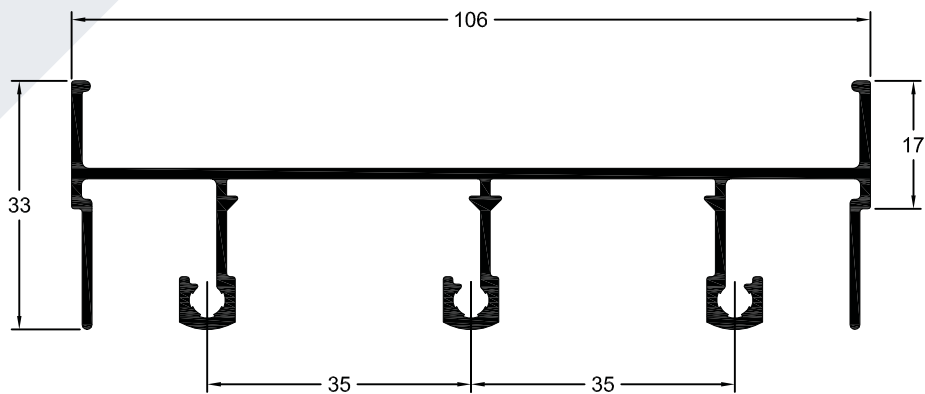
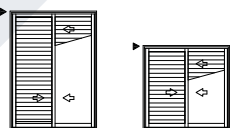
SK-006	SU-006
PESO - 1.085 Kg/m	
TRAVESSA-PEITORIL	
JANELAS	



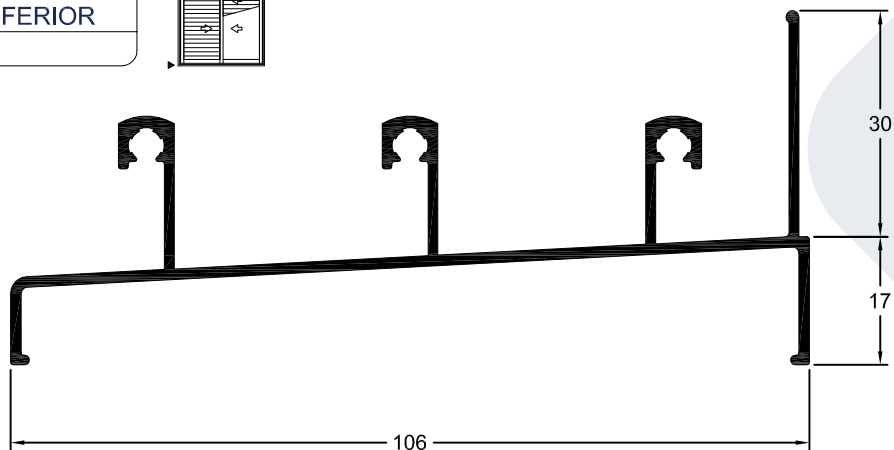
SK-401	E-7220
PESO - 1.092 Kg/m	
TRAVESSA-PEITORIL	
JANELAS	



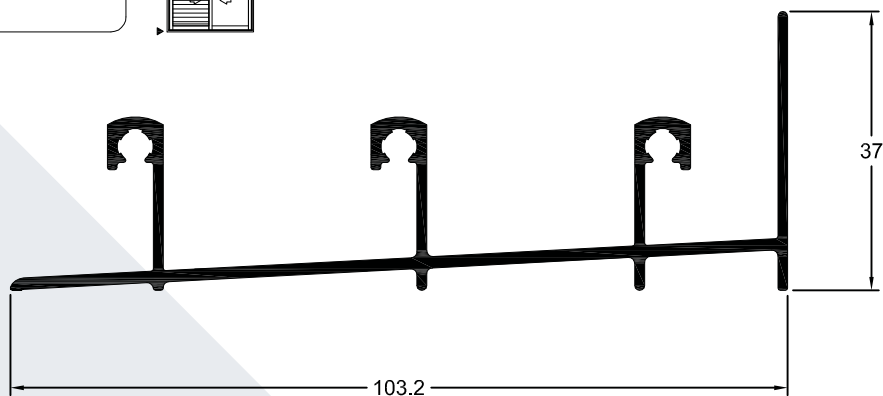
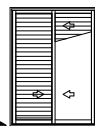
SK-010	SU-010
PESO - 1.049 Kg/m	
MARCO-TRILHO SUPERIOR	
JANELAS E PORTAS	



SK-011	SU-011
PESO - 0.967 Kg/m	
MARCO-TRILHO INFERIOR	
JANELAS	

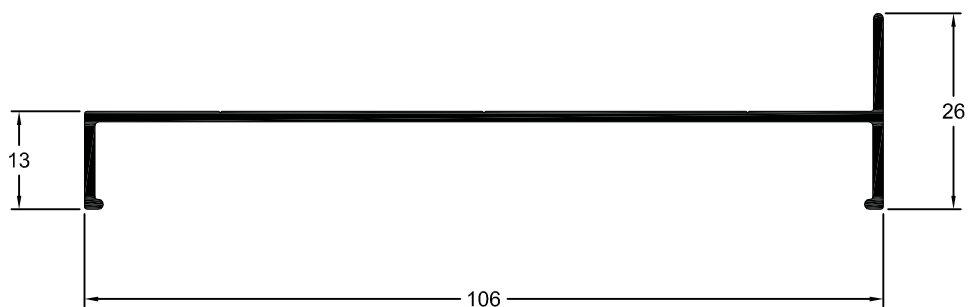
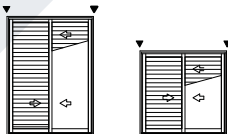


SK-230	SU-230
PESO - 0.932 Kg/m	
MARCO-TRILHO INFERIOR	
PORTAS	

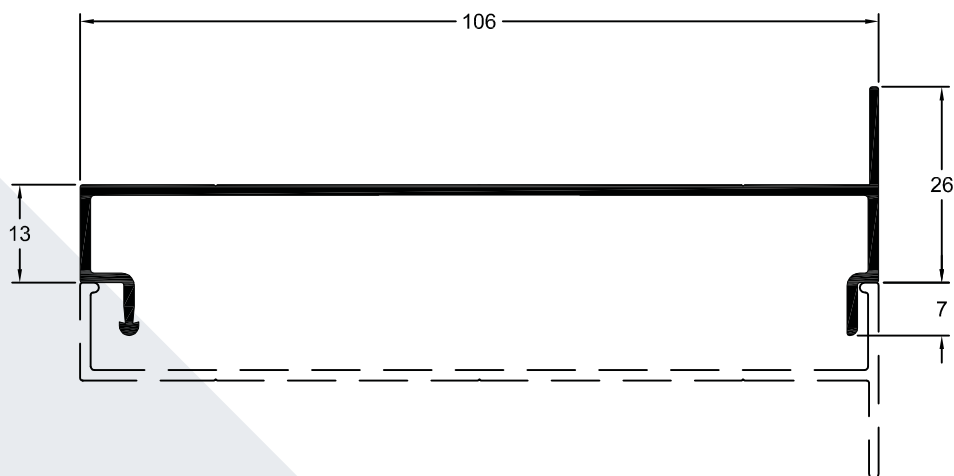
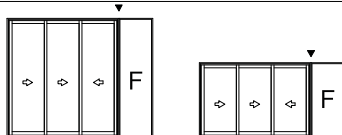




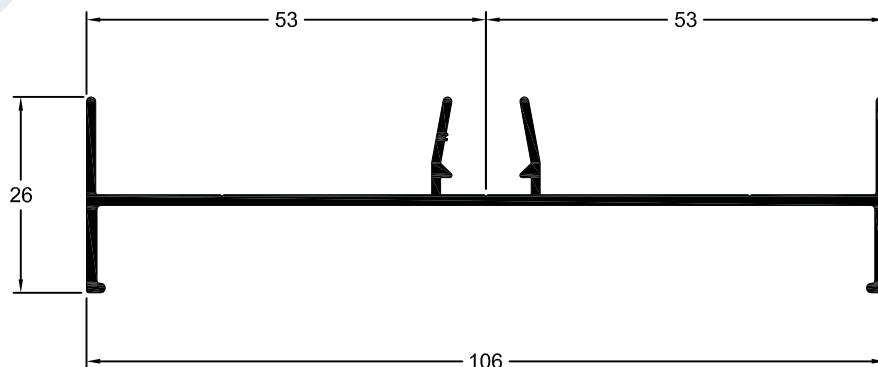
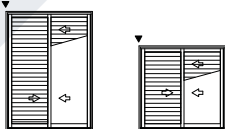
SK-012	SU-012
PESO - 0.542 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



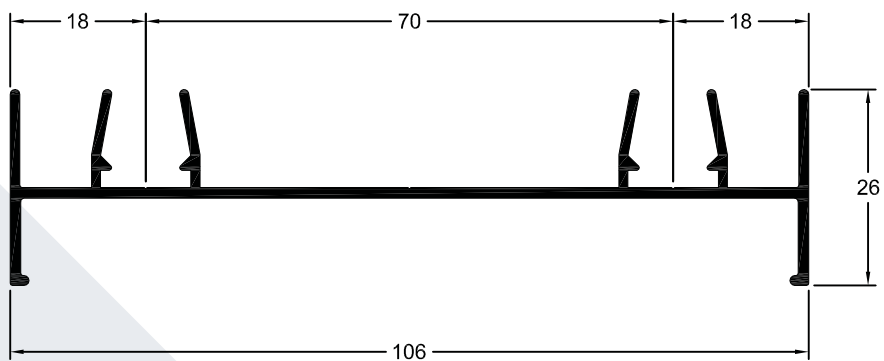
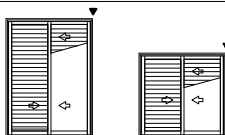
SK-037	SU-037
PESO - 0.615 Kg/m	
MARCO-MACHO E FÊMEA	
JANELAS E PORTAS	



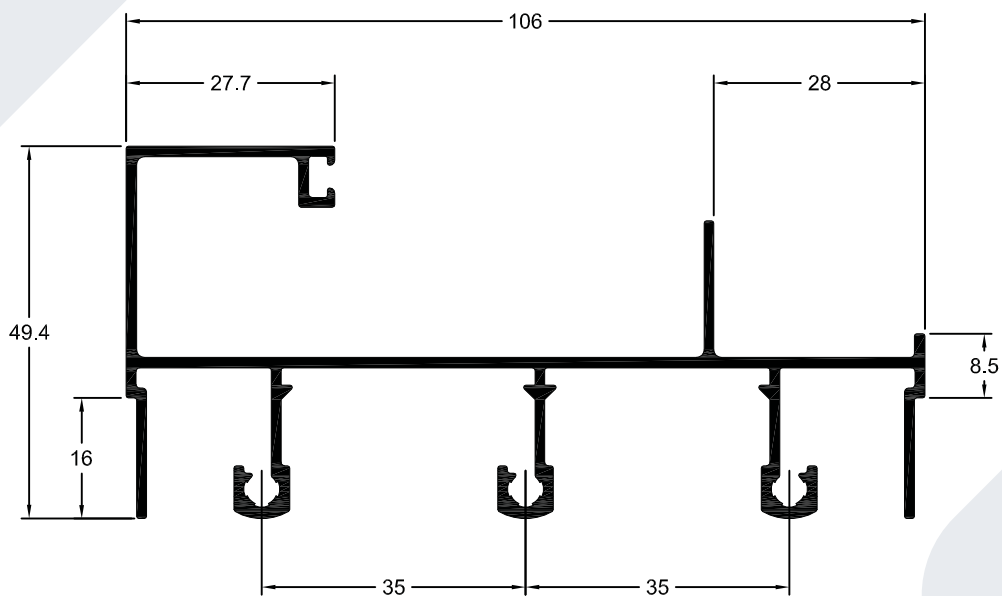
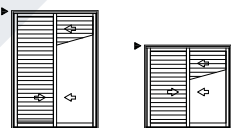
SK-014	SU-014
PESO - 0.676 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



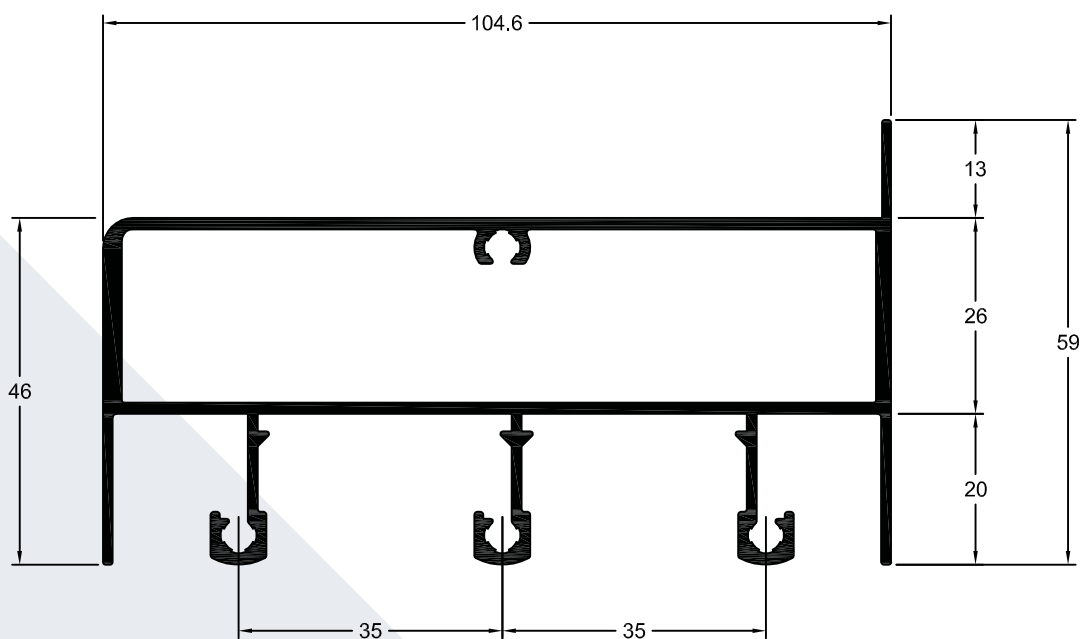
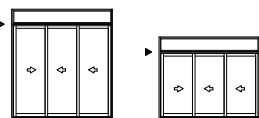
SK-013	SU-013
PESO - 0.775 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



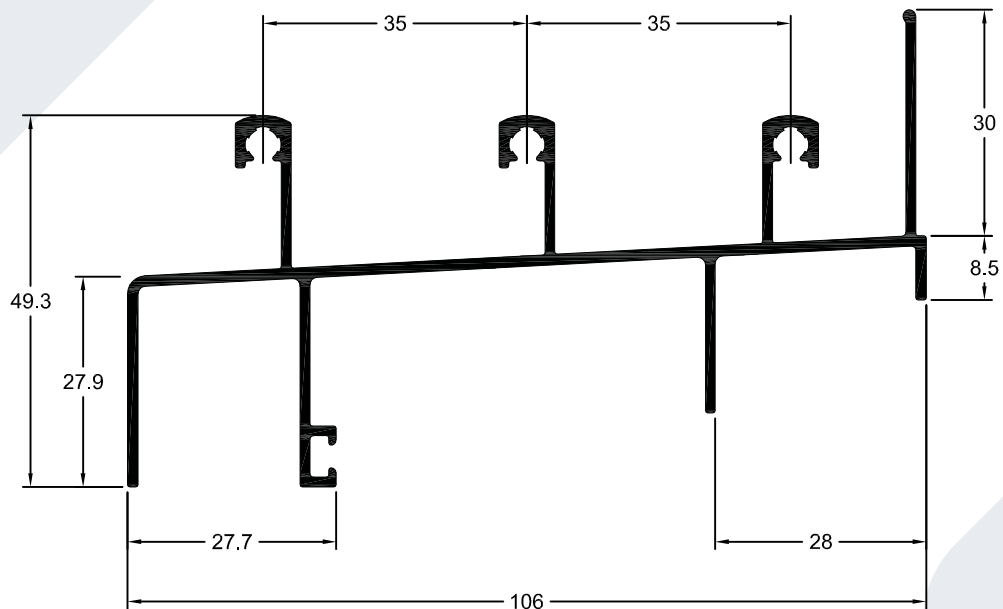
SK-031	SU-031
PESO - 1.279 Kg/m	
MARCO-TRILHO SUPERIOR	
JANELAS E PORTAS	



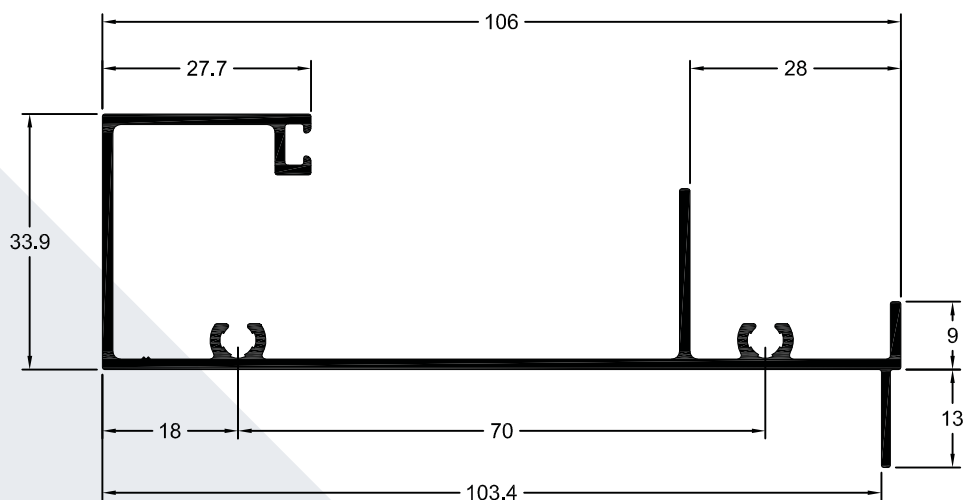
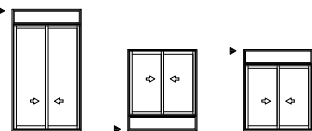
SK-019	SU-019
PESO - 1.748 Kg/m	
TRAVESSA-BANDEIRA	
JANELAS E PORTAS	



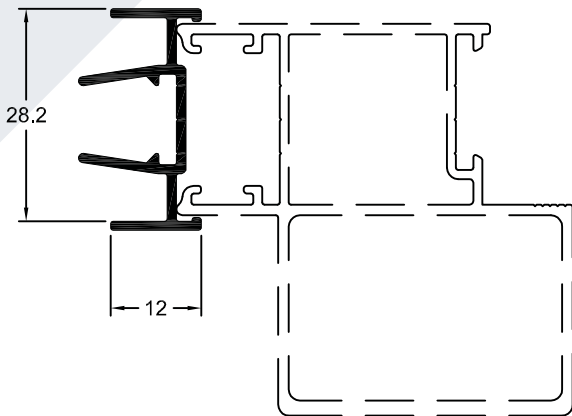
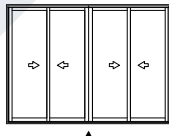
SK-032	SU-032
PESO - 1.195 Kg/m	
MARCO-TRILHO INFERIOR	
JANELAS	



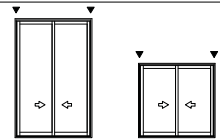
SK-229	SU-229
PESO - 0.915 Kg/m	
MARCO-TRAVESSA	
JANELAS E PORTAS	



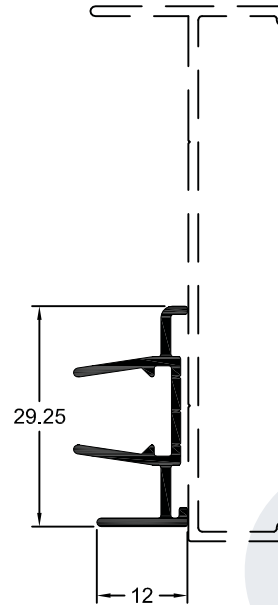
SK-291	SU-291
PESO - 0.265 Kg/m	
MATA-JUNTA	
JANELAS E PORTAS	



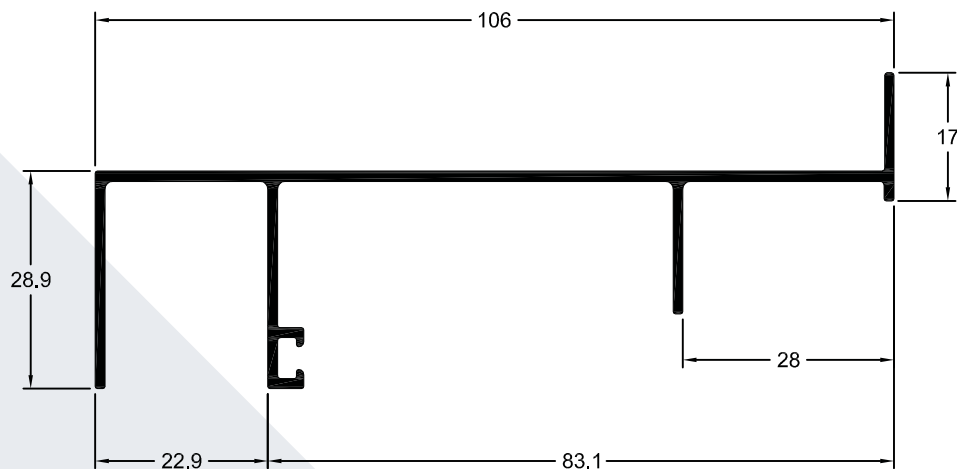
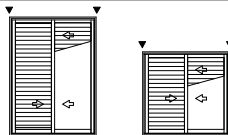
SK-302	SU-302
PESO - 0.233 Kg/m	
MATA-JUNTA	
JANELAS E PORTAS	



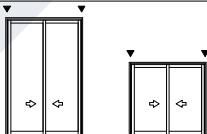
APLICAÇÃO SK-007; SK-012



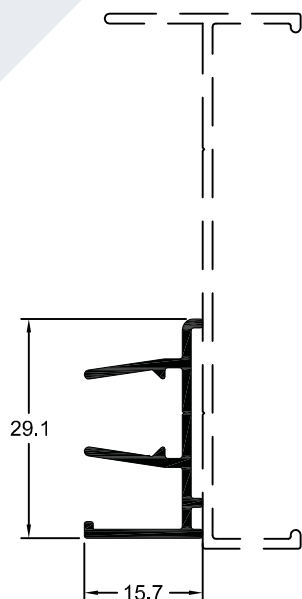
SK-033	SU-033
PESO - 0.742 Kg/m	
MARCO-MONTANTE LATERAL	
JANELAS E PORTAS	



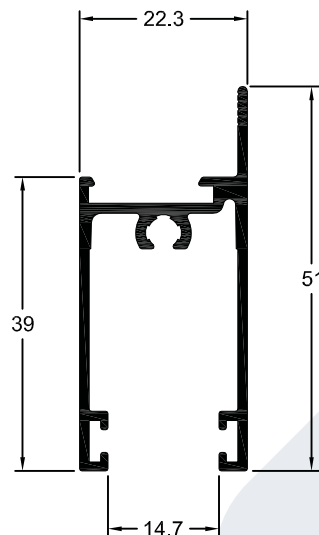
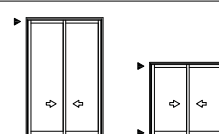
SK-008	SU-008
PESO - 0.247 Kg/m	
MATA-JUNTA	
JANELAS E PORTAS	



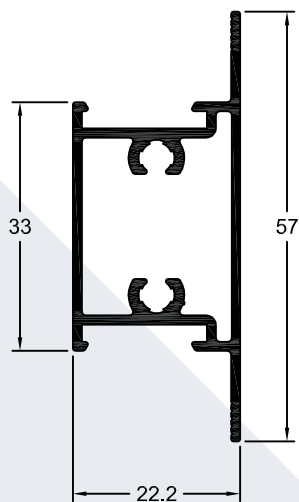
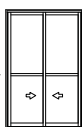
APLICAÇÃO: SK-007; SK-012



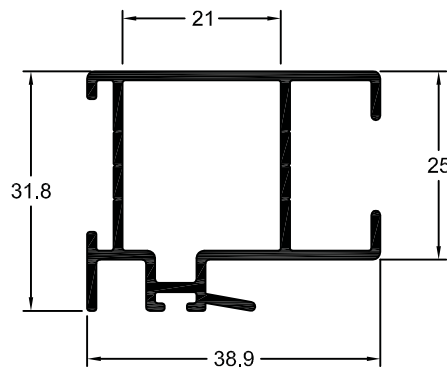
SK-053	SU-053
PESO - 0.504 Kg/m	
FOLHA-TRAVESSA	
JANELAS E PORTAS	



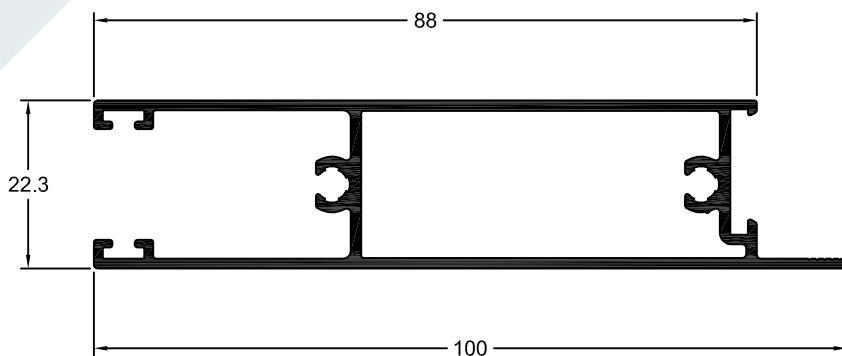
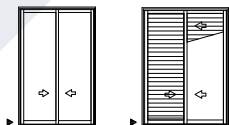
SK-227	SU-227
PESO - 0.551 Kg/m	
TRAVESSA INTERMEDIÁRIA	
PORTAS	



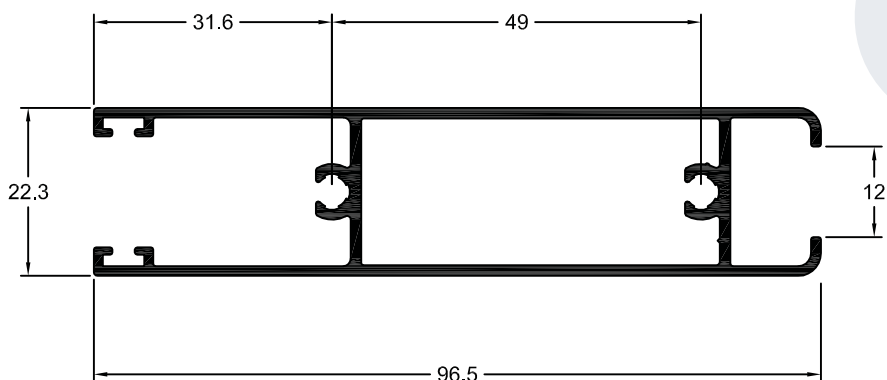
SK-056	SU-056
PESO - 0.542 Kg/m	
MONTANTE MÃO-AMIGO	
JANELAS	



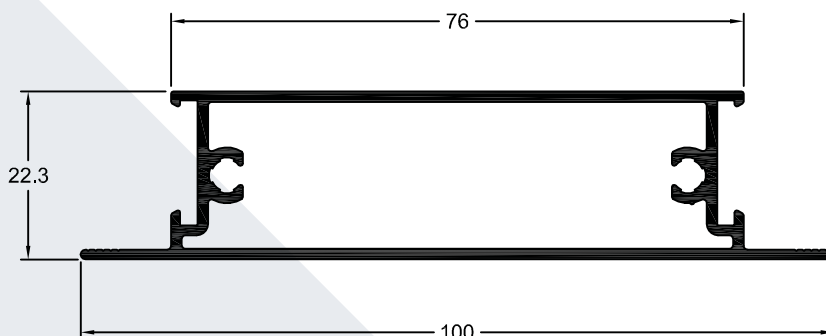
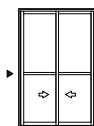
SK-225	SU-225
PESO - 0.990 Kg/m	
TRAVESSA INFERIOR	
PORTAS	



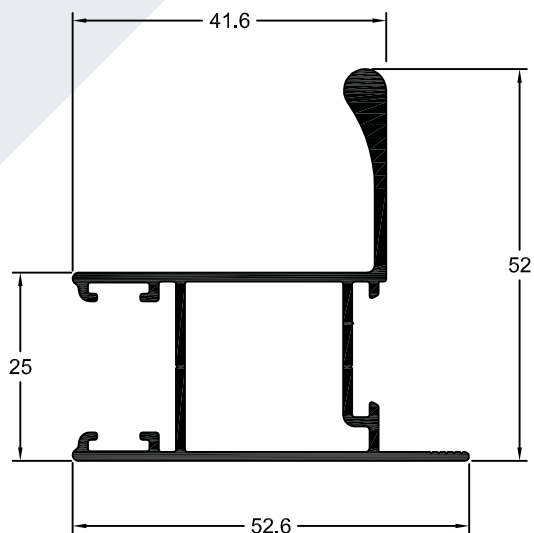
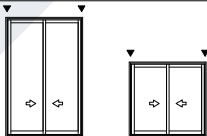
SK-226	SU-226
PESO - 1.010 Kg/m	
TRAVESSA INFERIOR	
PORTAS	



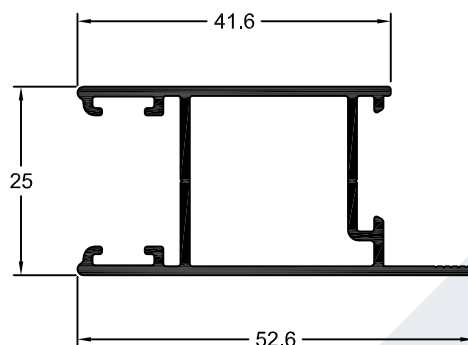
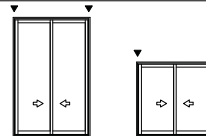
SK-050	SU-050
PESO - 0.930 Kg/m	
TRAVESSA INTERMEDIÁRIA	
PORTAS	



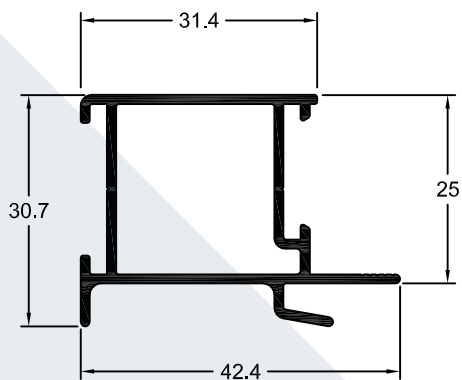
SK-250	SU-250
PESO - 0.710 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



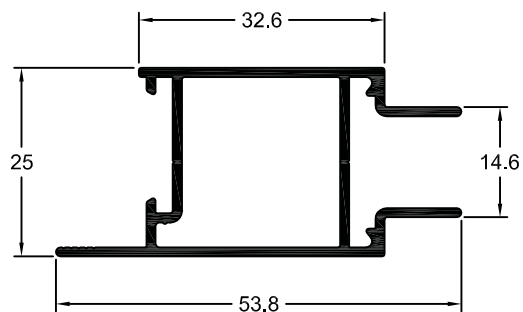
SK-039	SU-039
PESO - 0.526 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



SK-040	SU-040
PESO - 0.476 Kg/m	
MONTANTE MÃO-AMIGO	
JANELAS	

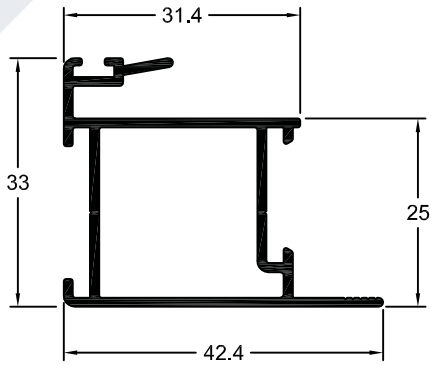


SK-192	SU-192
PESO - 0.524 Kg/m	
MONTANTE CENTRAL	
JANELAS E PORTAS	

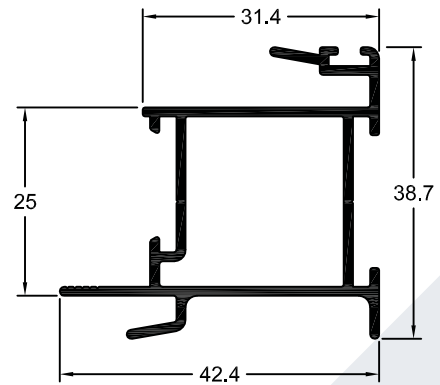




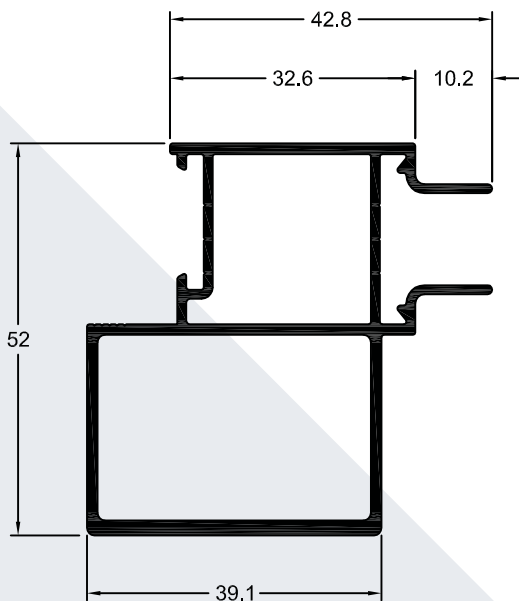
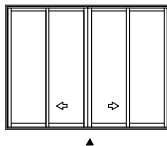
SK-041	SU-041
PESO - 0.504 Kg/m	
MONTANTE MÃO-AMIGO	
JANELAS	



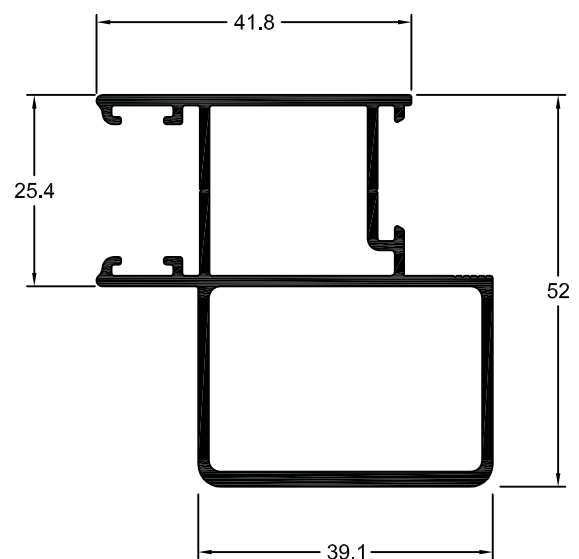
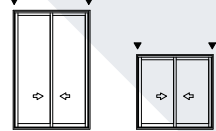
SK-042	SU-042
PESO - 0.560 Kg/m	
MONTANTE MÃO-AMIGO	
JANELAS	



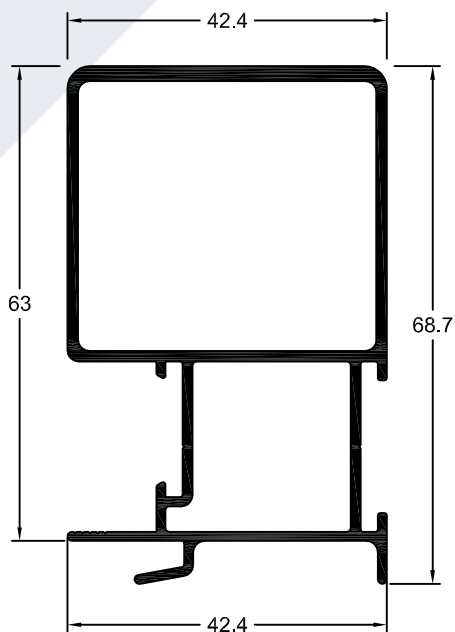
SK-043	SU-043
PESO - 0.960 Kg/m	
MONTANTE CENTRAL	
JANELAS E PORTAS	



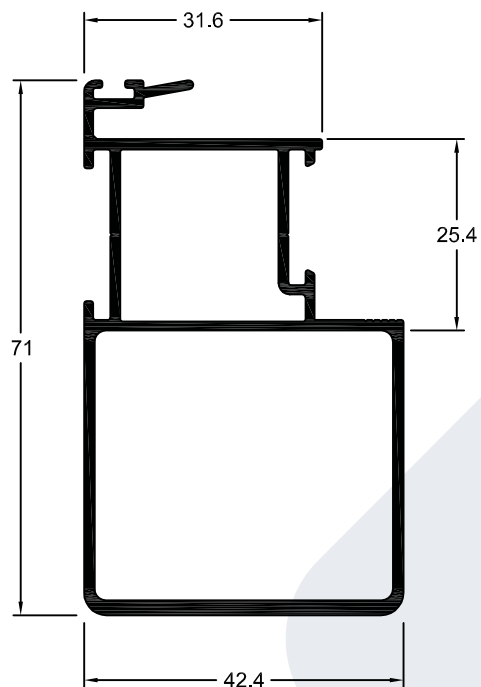
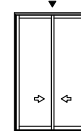
SK-044	SU-044
PESO - 0.976 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



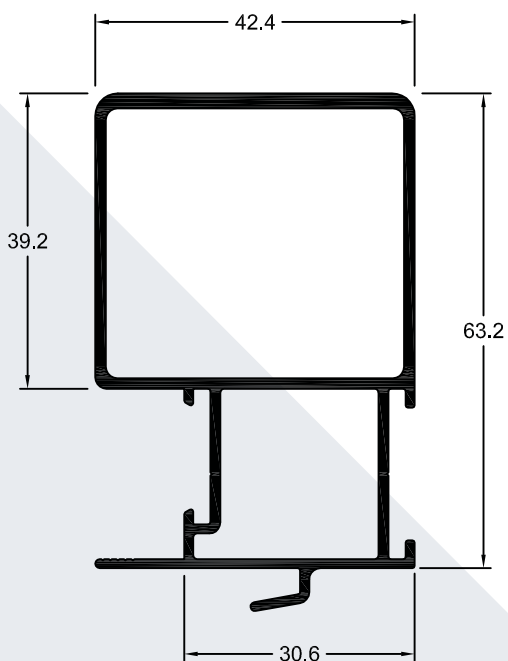
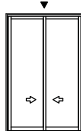
SK-047	SU-047
PESO - 1.049 Kg/m	
MONTANTE MÃO-AMIGO	
PORTAS	



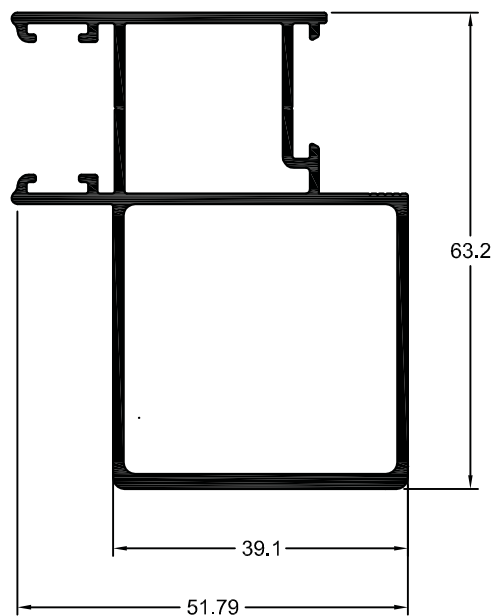
SK-049	SU-049
PESO - 1.049 Kg/m	
MONTANTE MÃO-AMIGO	
PORTAS	



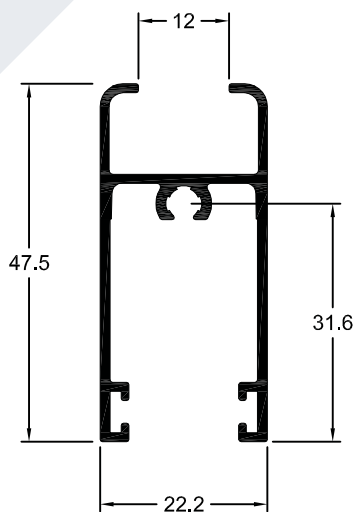
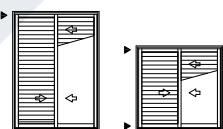
SK-214	SU-214
PESO - 1.027 Kg/m	
MONTANTE MÃO-AMIGO	
PORTAS	



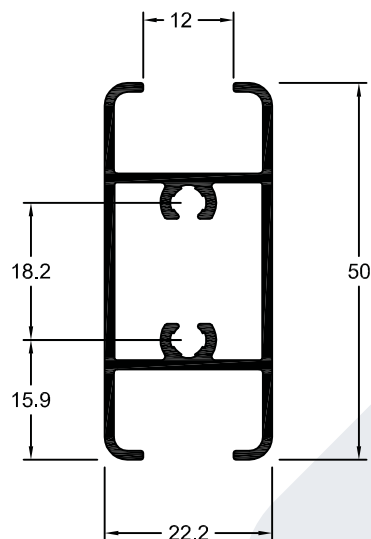
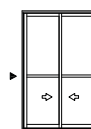
SK-283	SU-283
PESO - 1.099 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



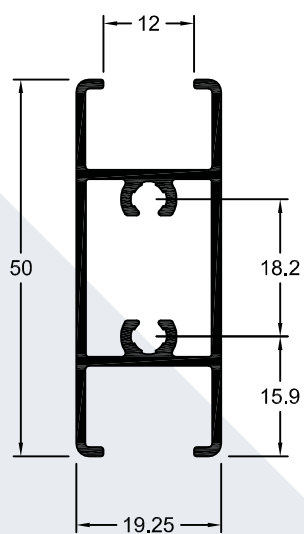
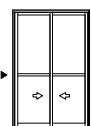
SK-186	SU-186
PESO - 0509 Kg/m	
FOLHA-TRAVESSA	
JANELAS E PORTAS	



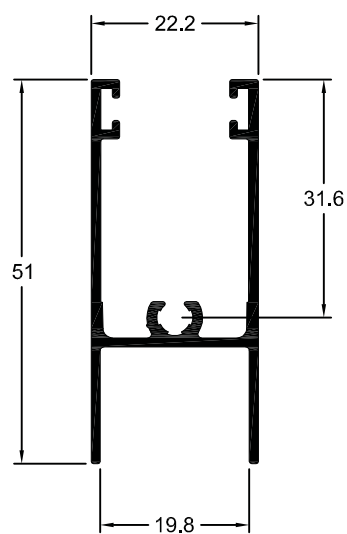
SK-188	SU-188
PESO - 0.598 Kg/m	
TRAVESSA INTERMEDIÁRIA	
PORTAS	



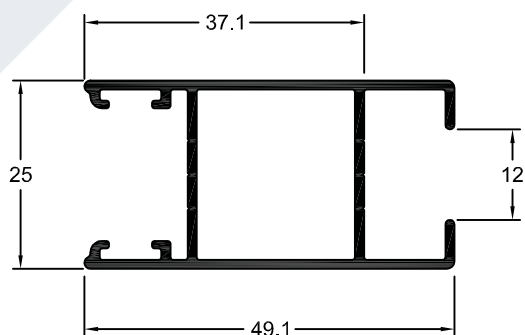
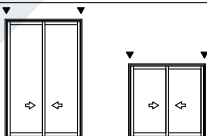
GS-056
PESO - 0.555 Kg/m
TRAVESSA INTERMEDIÁRIA
PORTAS



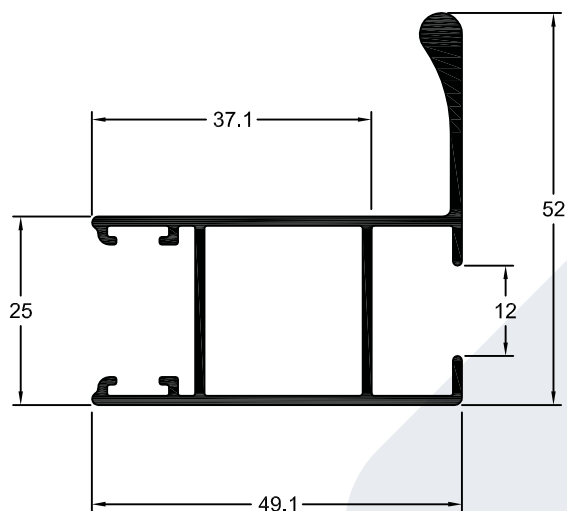
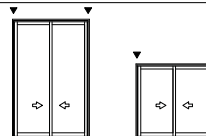
SK-187	SU-187
PESO - 0.515 Kg/m	
FOLHA-TRAVESSA VZ	
JANELAS E PORTAS	



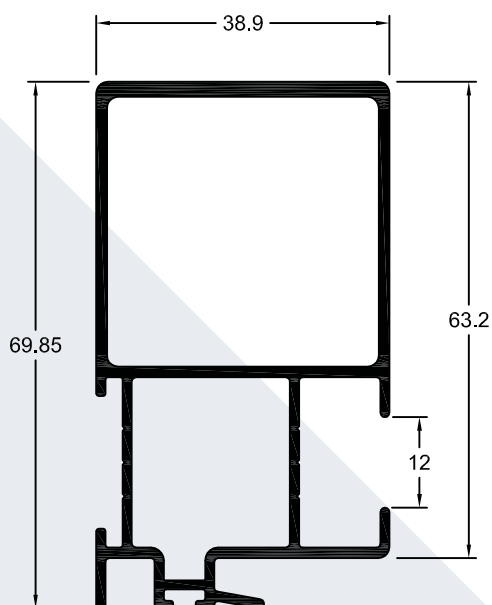
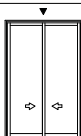
SK-055	SU-055
PESO - 0.543 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



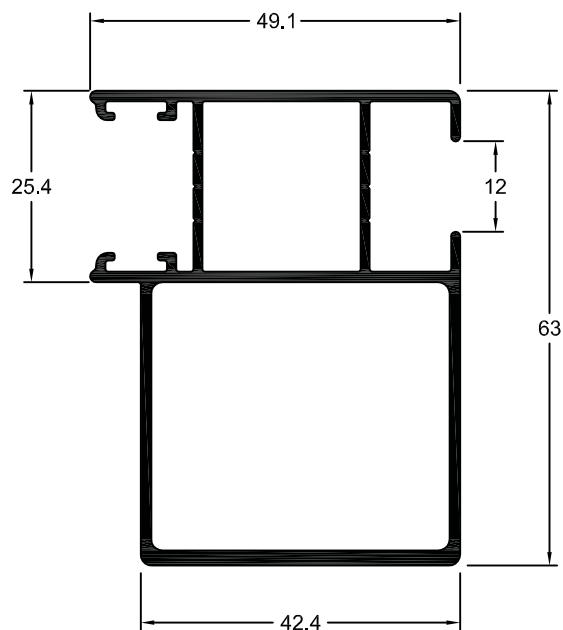
SK-270	SU-270
PESO - 0.729 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



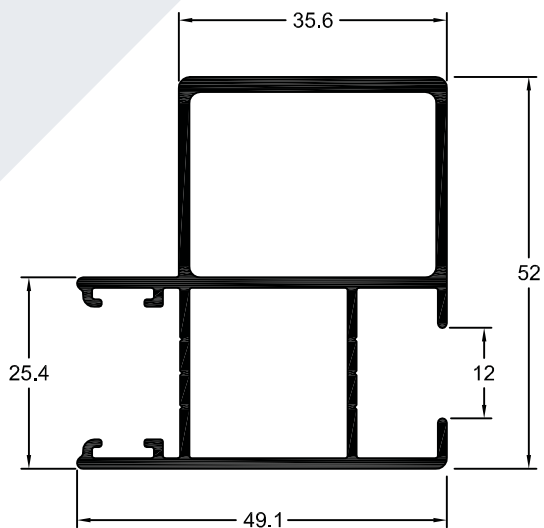
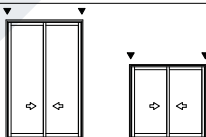
SK-061	SU-061
PESO - 1.065 Kg/m	
MONTANTE MÃO-AMIGO	
PORTAS	



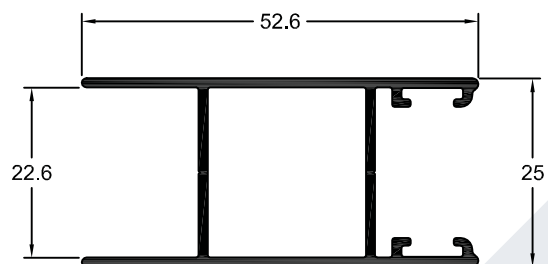
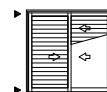
SK-601	SU-601
PESO - 1.097 Kg/m	
MONTANTE LATERAL	
PORTAS	



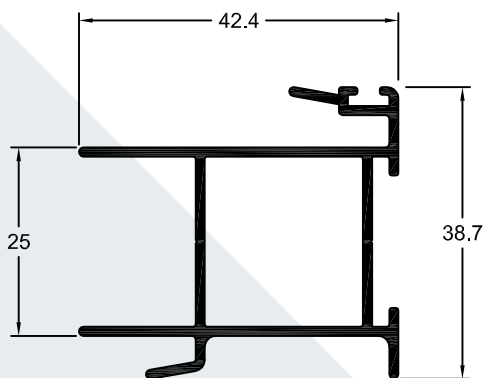
SK-060	SU-060
PESO - 0.981 Kg/m	
MONTANTE LATERAL	
JANELAS E PORTAS	



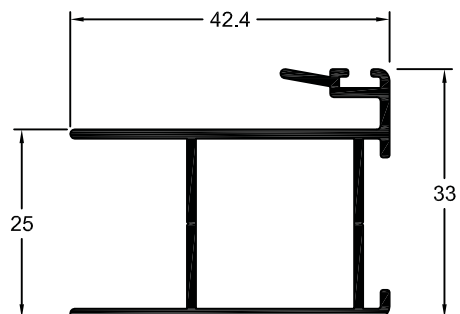
SK-068	SU-068
PESO - 0.539 Kg/m	
MONTANTE LATERAL VZ	
JANELAS	



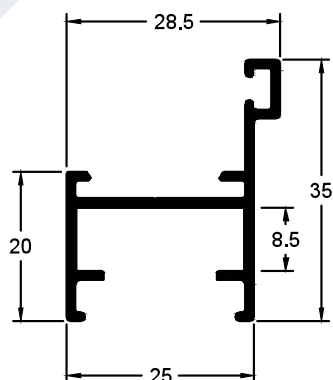
SK-069	SU-069
PESO - 0.575 Kg/m	
MONTANTE MÃO-AMIGO VZ	
JANELAS	



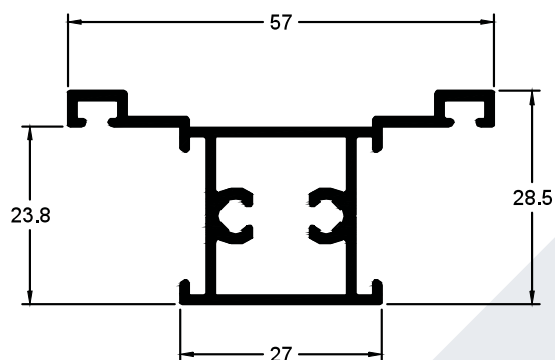
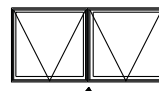
SK-070	SU-070
PESO - 0.520 Kg/m	
MONTANTE MÃO-AMIGO VZ	
JANELAS	



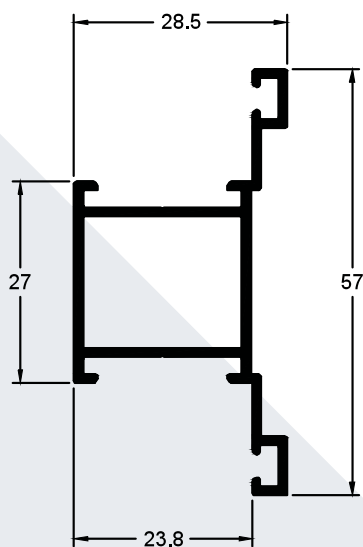
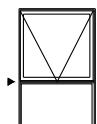
SK-079	SU-079
PESO - 0.341 Kg/m	
MARCO	
MAXIM-AR	



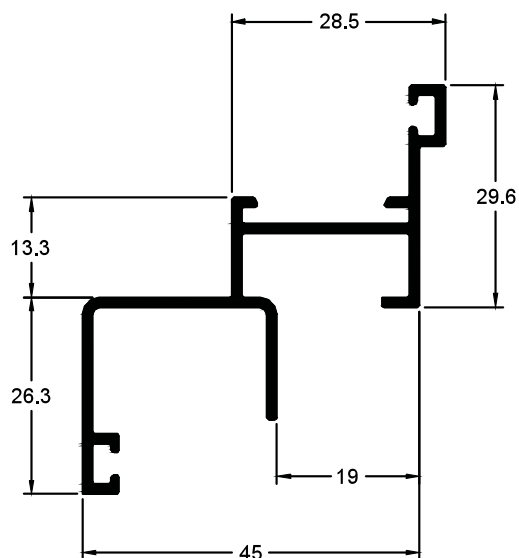
SK-086	SU-086
PESO - 0.539 Kg/m	
MONTANTE LATERAL VZ	
MAXIM-AR	



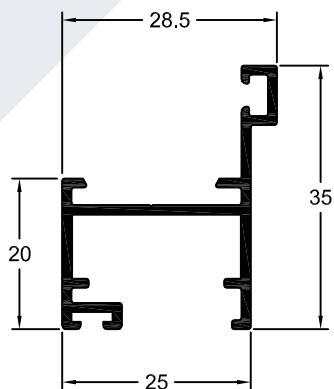
SK-085	SU-085
PESO - 0.501 Kg/m	
TRAVESSA	
MAXIM-AR	



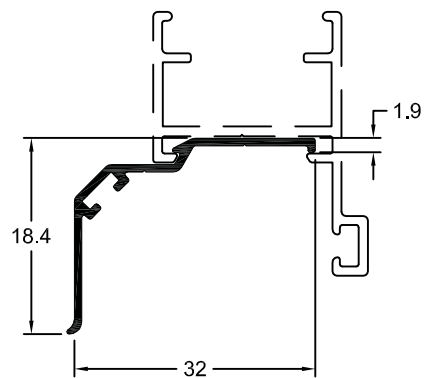
SK-030	SU-030
PESO - 0.550 Kg/m	
MARCO	
MAXIM-AR	



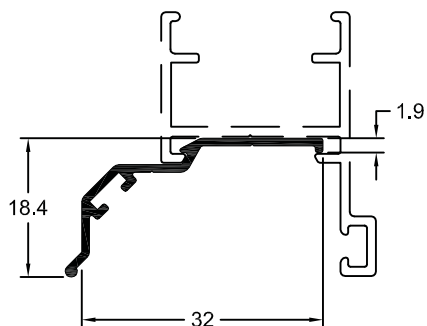
SK-199	AE-199
PESO - 0.363 Kg/m	
MARCO	
MAXIM-AR	



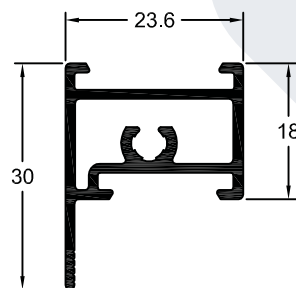
SK-276	SU-276
PESO - 0.168 Kg/m	
PINGADEIRA	
MAXIM-AR	



SK-083	SU-083
PESO - 0.149 Kg/m	
PINGADEIRA	
MAXIM-AR	



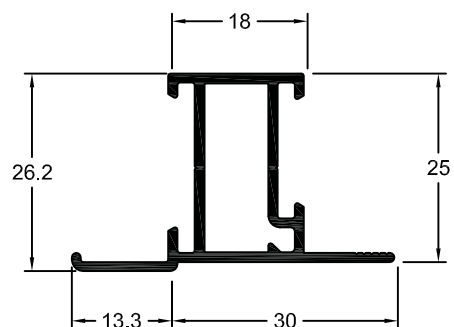
SK-082	SU-082
PESO - 0.382 Kg/m	
FOLHA-TRAVESSA	
MAXIM-AR	



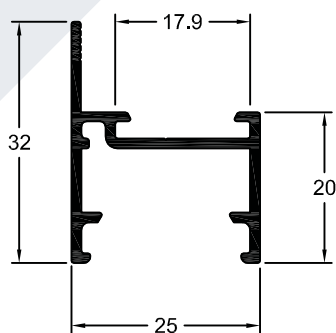
SK-200	SU-200
PESO - 0.443 Kg/m	
FOLHA	
MAXIM-AR	



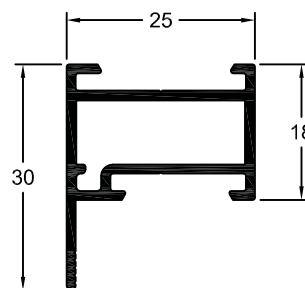
SK-081	SU-081
PESO - 0.404 Kg/m	
FOLHA	
MAXIM-AR	



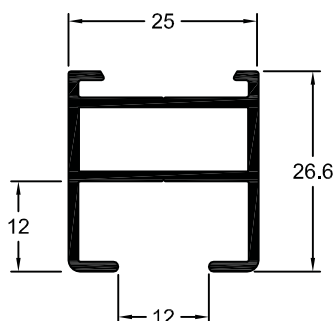
SK-088	SU-088
PESO - 0.312 Kg/m	
FOLHA-FIXO	
FIXO	



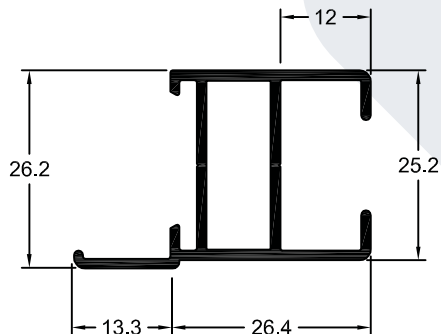
SK-080	SU-080
PESO - 0.358 Kg/m	
FOLHA-TRAVESSA	
MAXIM-AR	



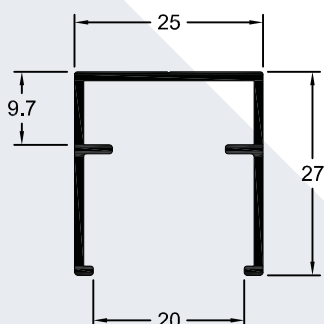
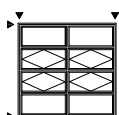
SK-091	SU-091
PESO - 0.404 Kg/m	
FOLHA-TRAVESSA	
MAXIM-AR	



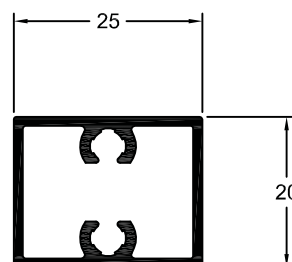
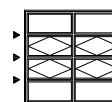
SK-090	SU-090
PESO - 0.452 Kg/m	
FOLHA	
MAXIM-AR	



SK-093	SU-093
PESO - 0.282 Kg/m	
MARCO	
BASCULANTE	

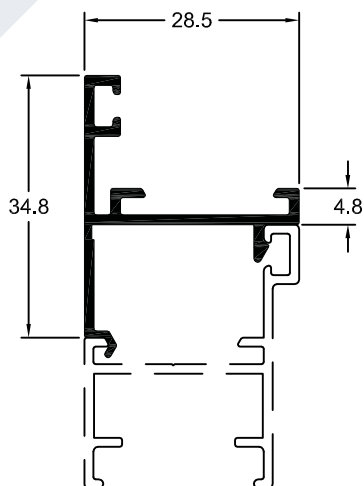
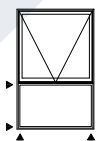


SK-094	SU-094
PESO - 0.374 Kg/m	
TRAVESSA	
BASCULANTE	

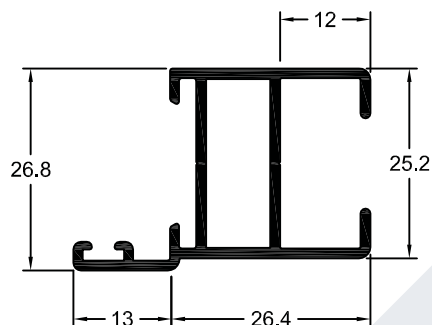




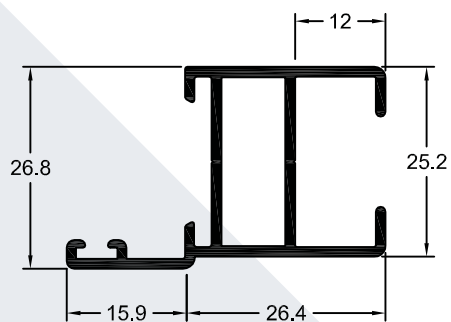
SK-629	BS-629
PESO - 0.315 Kg/m	
INVERSOR DE BAGUETE	
MAXIM-AR	



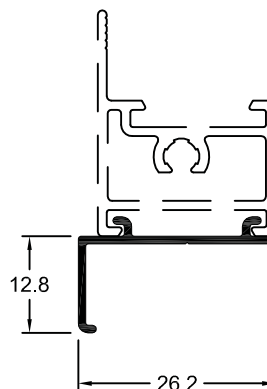
SK-901	AE-901
PESO - 0.474 Kg/m	
FOLHA	
MAXIM-AR	



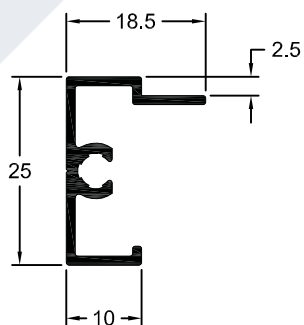
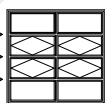
SK-193	AE-193
PESO - 0.488 Kg/m	
FOLHA	
MAXIM-AR	



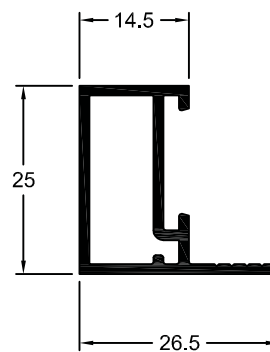
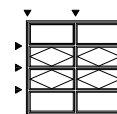
SK-084	SU-084
PESO - 0.125 Kg/m	
PINGADEIRA	
MAXIM-AR	



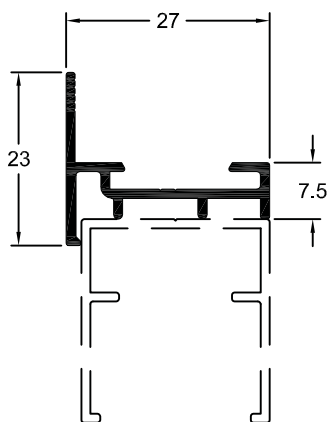
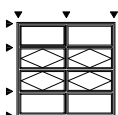
SK-095	SU-095
PESO - 0.225 Kg/m	
MONTANTE	
BASCULANTE	



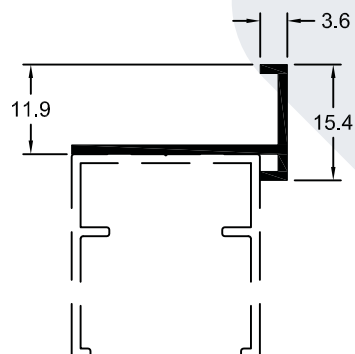
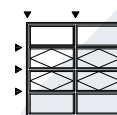
SK-096	SU-096
PESO - 0.330 Kg/m	
FOLHA	
BASCULANTE	



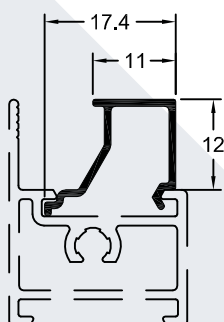
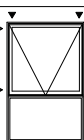
SK-099	SU-099
PESO - 0.230 Kg/m	
FOLHA-FIXO	
BASCULANTE	



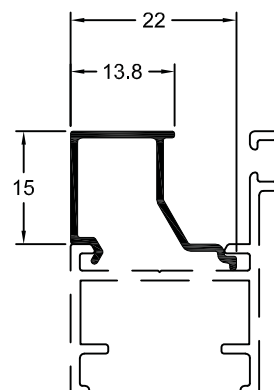
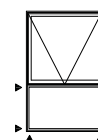
SK-100	SU-100
PESO - 0.154 Kg/m	
MATA-JUNTA	
BASCULANTE	



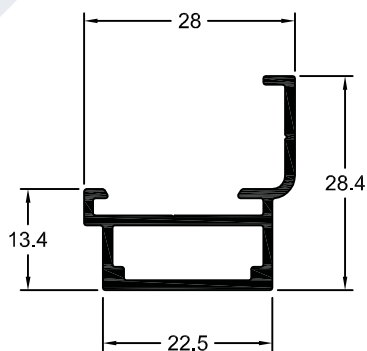
SK-102	SU-102
PESO - 0.111 Kg/m	
BAGUETE	
MAXIM-AR	



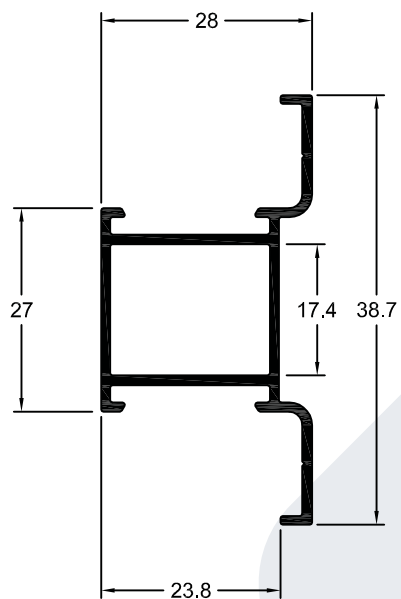
SK-103	SU-103
PESO - 0.141 Kg/m	
BAGUETE	
FIXO	



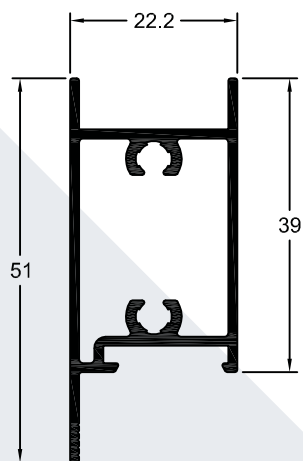
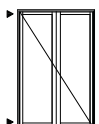
SK-402	AN-3483
PESO - 0.338 Kg/m	
MARCO	
FIXO	



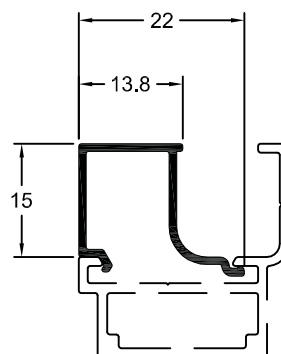
SK-403	AN-3482
PESO - 0.493 Kg/m	
TRAVESSA	
FIXO	



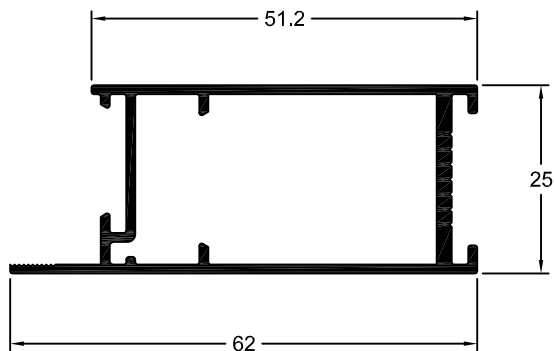
SK-110	SU-110
PESO - 0.534 Kg/m	
FOLHA	
PORTA DE GIRO	



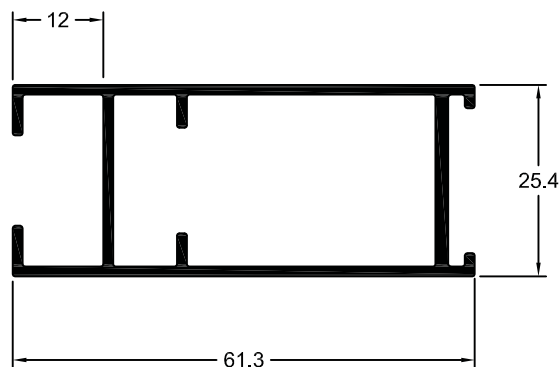
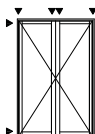
SK-404	AN-3257
PESO - 0.151 Kg/m	
BAGUETE	
FIXO	



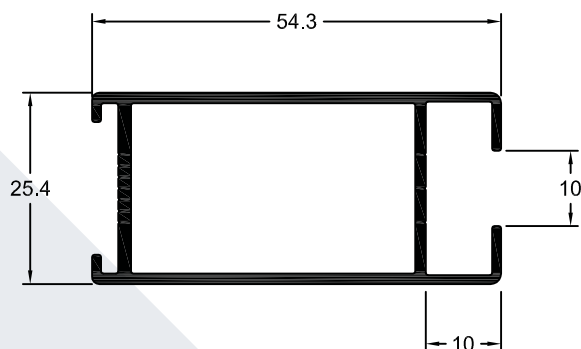
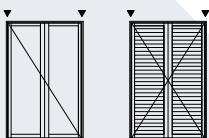
SK-111	SU-111
PESO - 0.620 Kg/m	
FOLHA	
PORTA DE GIRO	



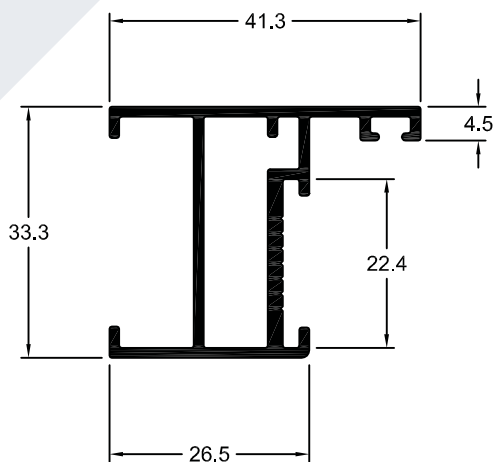
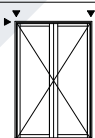
SK-241	SU-241
PESO - 0.699 Kg/m	
FOLHA	
PORTA DE GIRO	



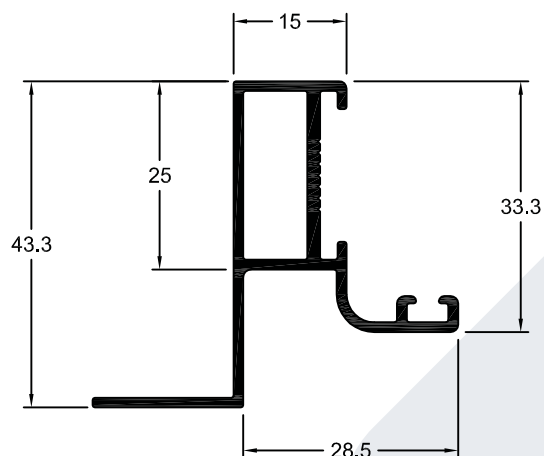
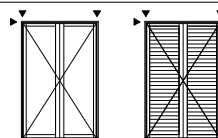
AE-282	AK-G04
PESO - 0.645 Kg/m	
FOLHA - MONTANTE	
PORTA DE GIRO	



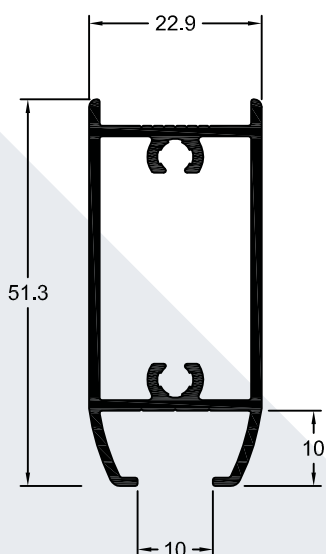
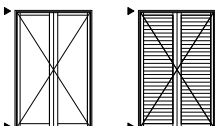
SK-279	SU-279
PESO - 0.585 Kg/m	
MARCO	
PORTA DE GIRO	



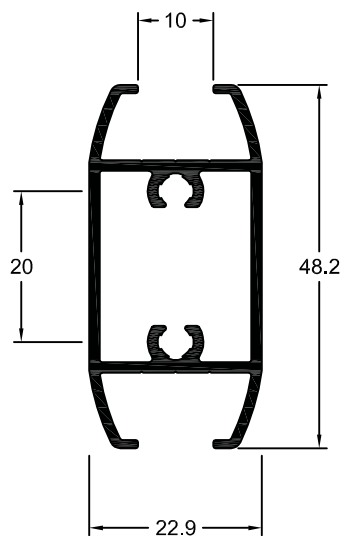
AE-279	AK-G01
PESO - 0.536 Kg/m	
MARCO	
PORTA DE GIRO	



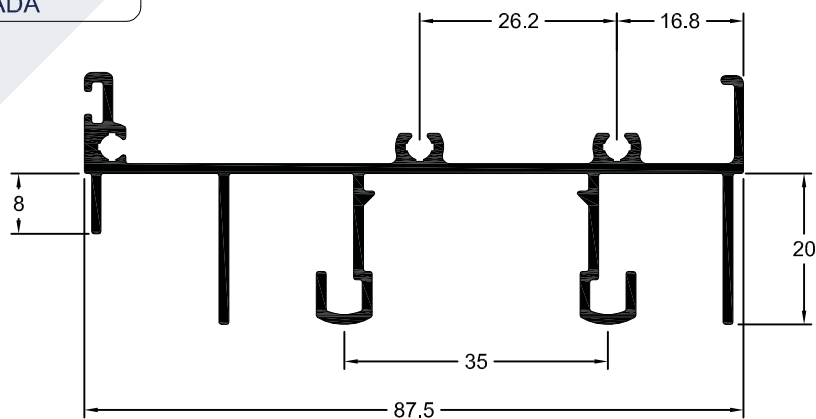
AE-280	AK-G02
PESO - 0.643 Kg/m	
FOLHA - TRAVESSA	
PORTA DE GIRO	



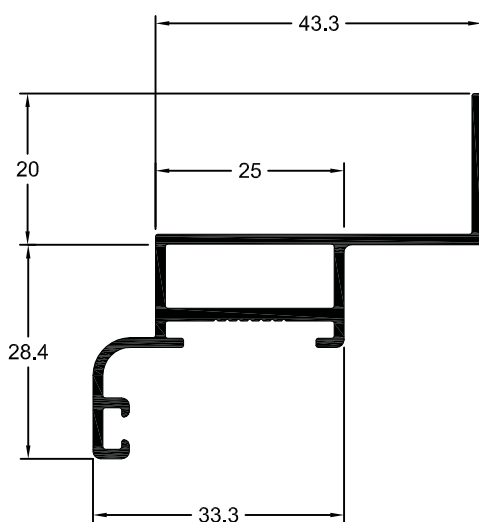
AE-281	AK-G03
PESO - 0.630 Kg/m	
TRAVESSA	
PORTA DE GIRO	



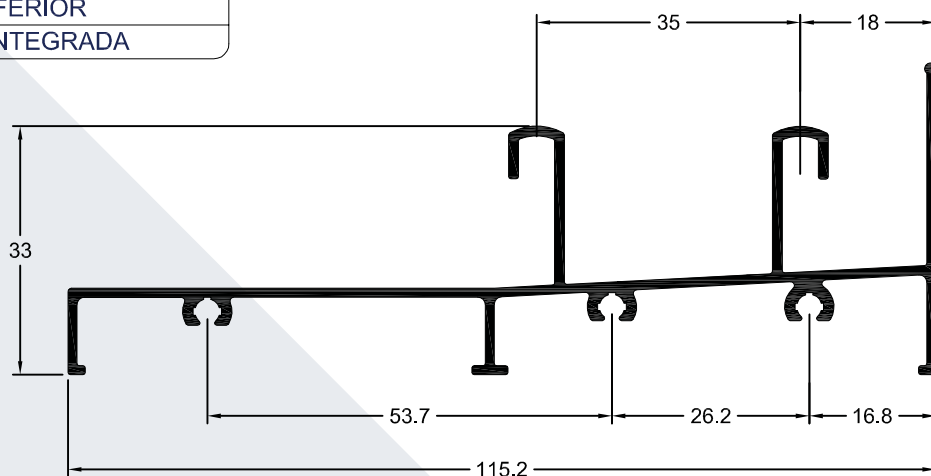
SK-293
PESO - 0,920 Kg/m
MARCO TRILHO INTERMEDIÁRIO
JANELA - INTEGRADA



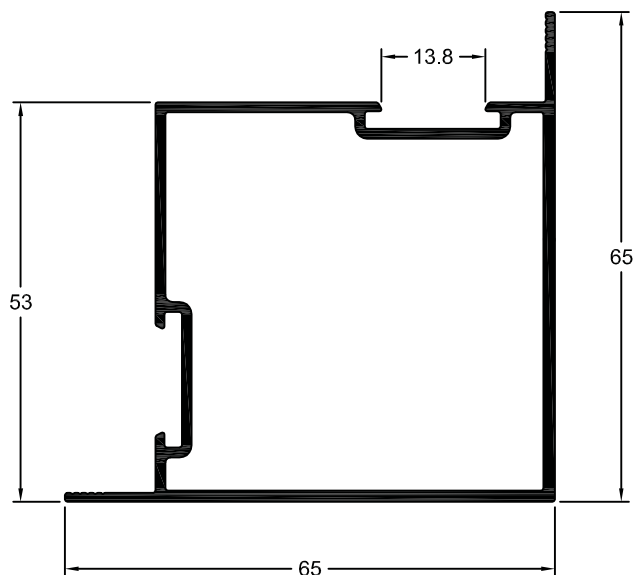
AK-G05
PESO - 0.541 Kg/m
MARCO
PORTA DE GIRO



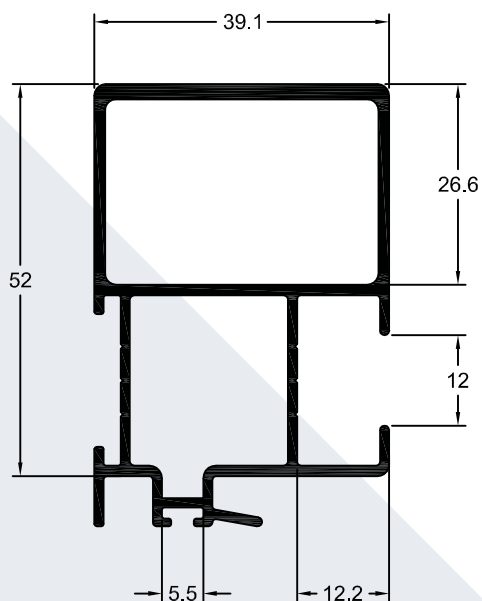
SK-304
PESO - 0,983 Kg/m
MARCO INFERIOR
JANELA - INTEGRADA



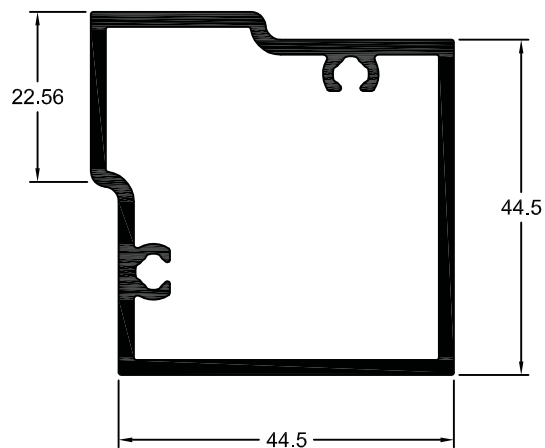
SK-412
PESO - 0,931 Kg/m
COLUNA DE CANTO
FIXO



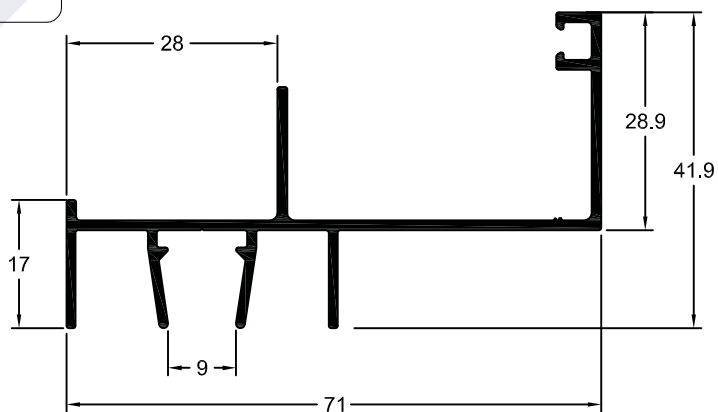
SK-400	SU-061
PESO - 0,991 Kg/m	
MONTANTE MÃO-AMIGO	
JANELAS E PORTAS	



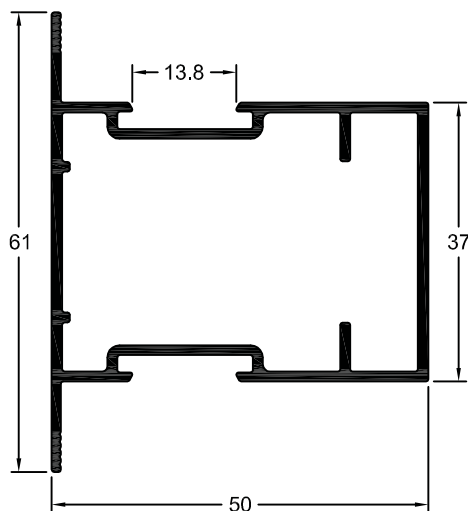
SK-414
PESO - 1,074 Kg/m
PRESILHA / REFORÇO
FIXO



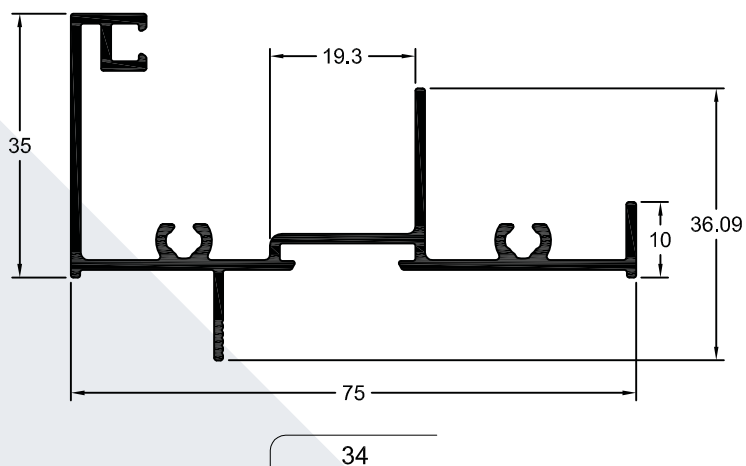
SK-232	SU-232
PESO - 0,637 Kg/m	
MARCO MONTANTE LATERAL	
JANELAS E PORTAS	



SK-408
PESO - 0,813 Kg/m
TRAV. / MONT.
FIXO

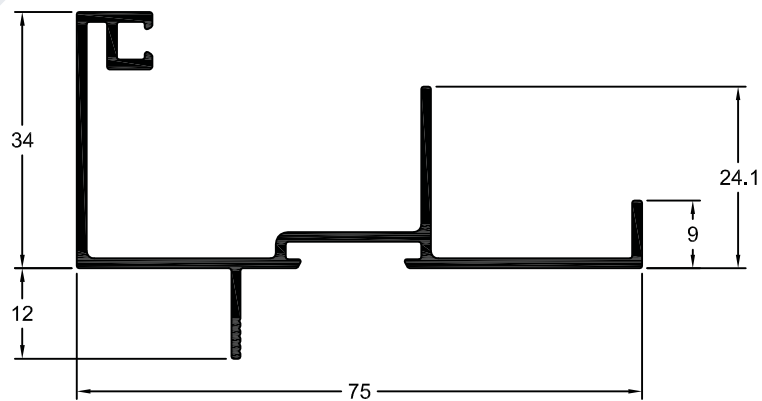


SK-407
PESO - 0,723 Kg/m
TRAVESSA SUP. / INF.
FIXO

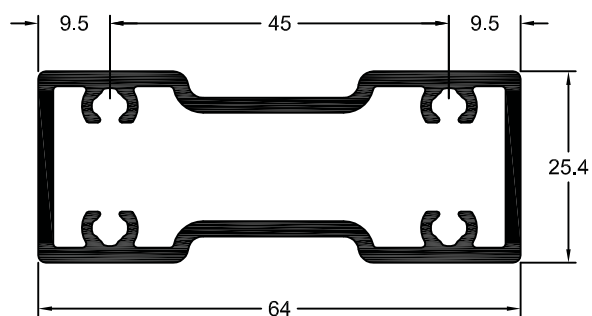




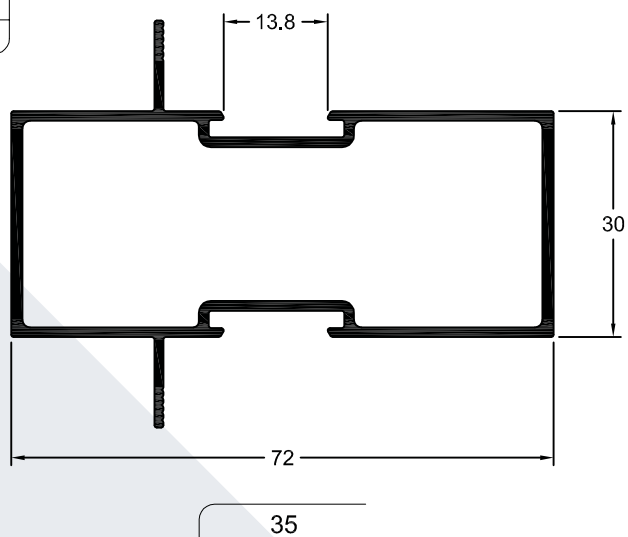
SK-406
PESO - 0,625 Kg/m
MONTANTE DIR. / ESQ.
FIXO



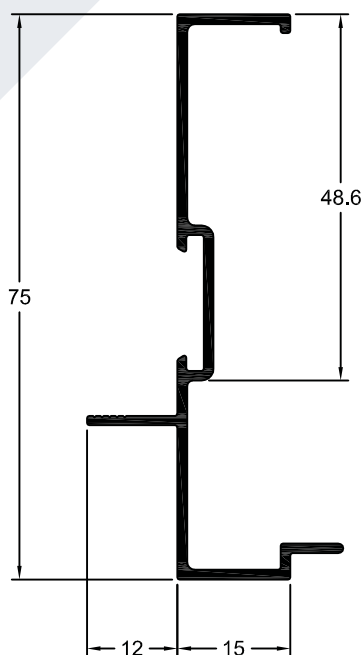
SK-413
PESO - 1,147 Kg/m
PRESILHA / REFORÇO
FIXO



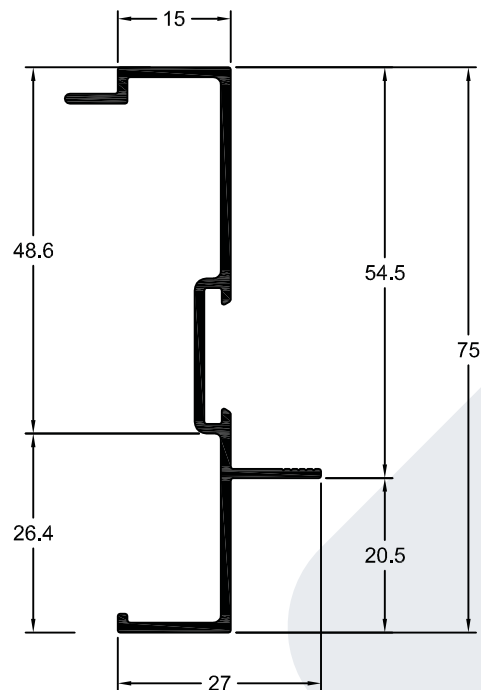
SK-409
PESO - 0,880 Kg/m
TRAVESSA / MONTANTE
FIXO



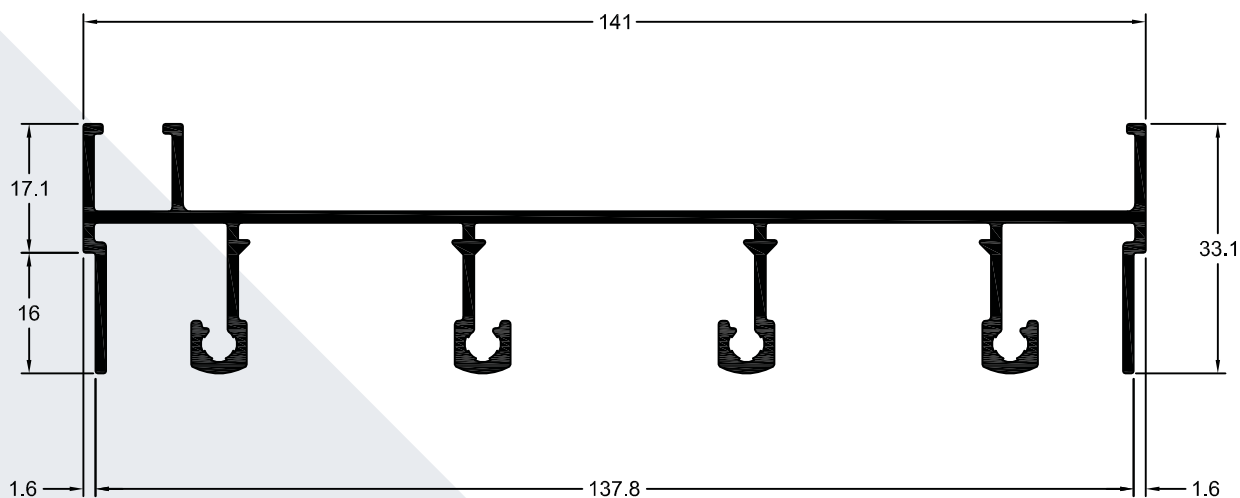
SK-410
PESO - 0,476 Kg/m
COLUNA DE JUNÇÃO
FIXO



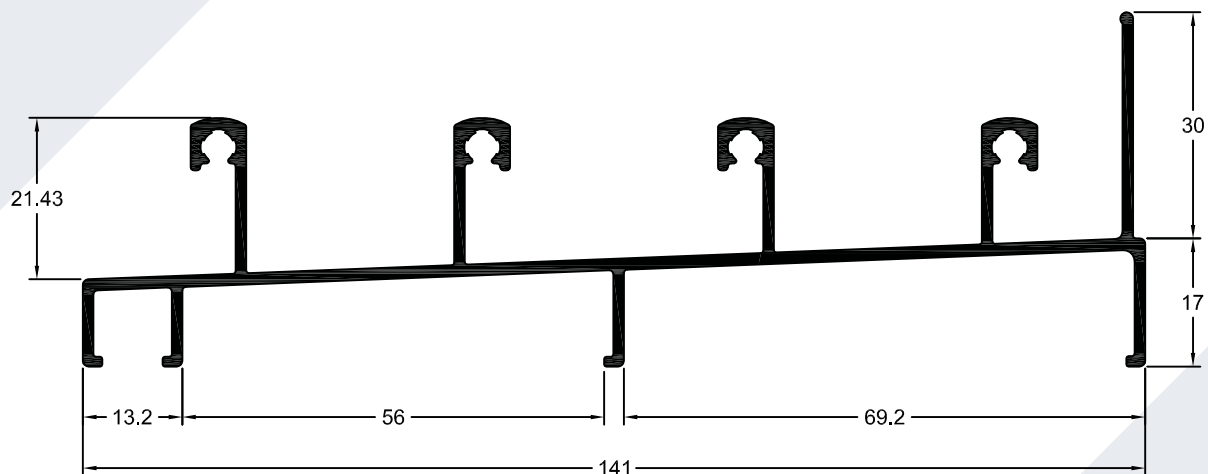
SK-411
PESO - 0,476 Kg/m
COLUNA DE JUNÇÃO
FIXO



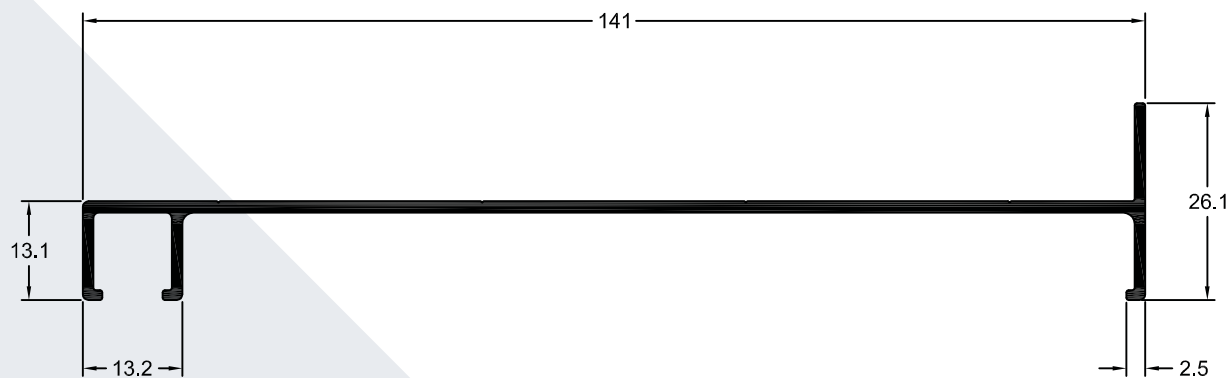
SK-121	SU-121
PESO - 1,434 Kg/m	
TRILHO SUPERIOR	
JANELAS E PORTAS	



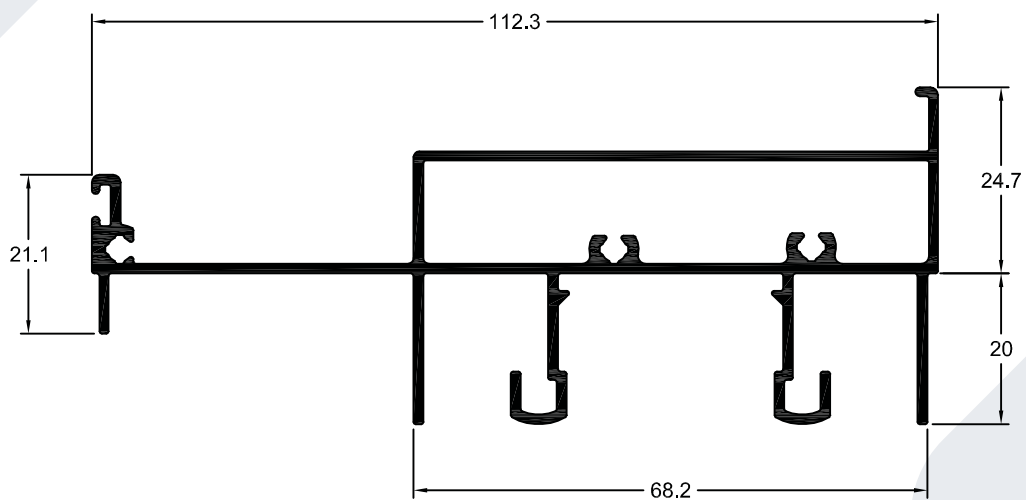
SK-122	SU-122
PESO - 1,381 Kg/m	
TRILHO INFERIOR	
JANELAS	



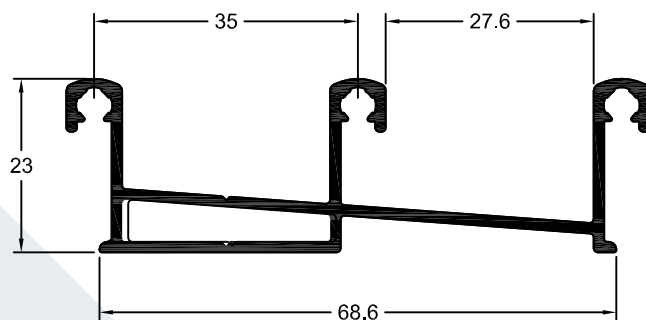
SK-123	SU-123
PESO - 0,768 Kg/m	
MARCO LATERAL	
JANELAS E PORTAS	



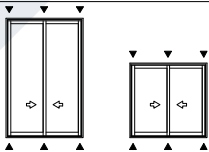
SK-415
PESO - 1,311 Kg/m
MARCO TRILHO INTERMEDIÁRIO
JANELAS E PORTAS



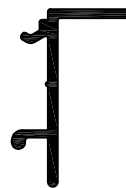
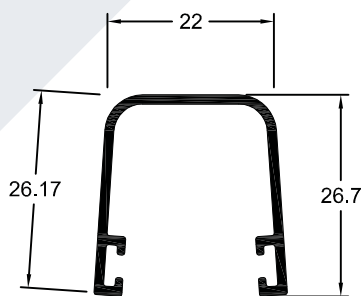
SK-305
PESO - 0,747 Kg/m
TRILHO INFERIOR
PORTAS



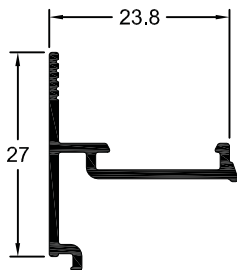
SK-107	SU-107
PESO - 0.271 Kg/m	
VEDAÇÃO MONTANTES	
JANELAS E PORTAS	



SU-108
PESO - 0.146 Kg/m
PEGA PALHETA
JANELAS



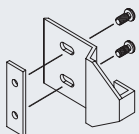
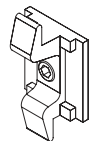
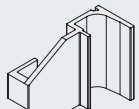
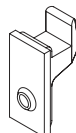
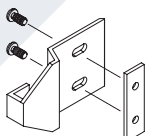
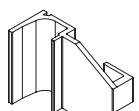
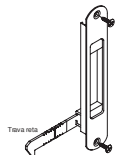
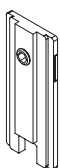
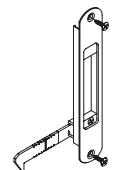
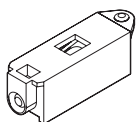
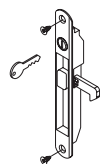
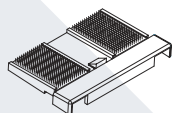
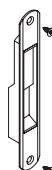
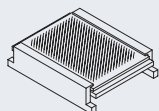
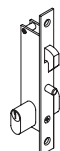
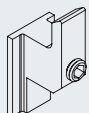
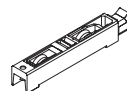
SU-292
PESO - 0.210 Kg/m
INVERSOR
MAXIM-AR



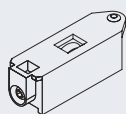


**ACESSÓRIOS**

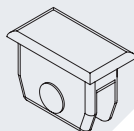
<b>COD.</b>	<b>PAG.</b>	<b>COD.</b>	<b>PAG.</b>
ALA-057	59	GAX-171	59
BRA25-250	58	GAX-172	59
BRA25-500	58	GAX-239	59
BRA25-750	58	GAX-256	59
BRA25-810	58	GAX-258	60
BTD-414	58	GAX-259	60
CHU-787	59	GAX-282	60
CHU-838	59	GAX-283	60
CNX-376	58	GAX-284	60
COC-731	57	GUI-332	57
COC-771	57	HAS-011	58
COT-741	57	HAS-069	58
COT-742	57	MCT-927	59
COT-782	57	PCP-3595IN+	60
CTF-055	57	PCP-4216IN+	60
CTF-370	57	PCP-4225IN+	60
CTF-409	57	PCP-4232IN+	60
CTT-295	58	PCP-PG4832IN+	60
DBR-837	58	PCP-PG4850IN+	60
DBR-840	59	PIV-752	58
DRE-329	57	PIV-753	59
ESC--5X6	59	PRE-190	59
ESC-5X8	59	RBT-115	60
ESC-7,5X6	59	RBT-117	60
FCH-338	59	ROD-426	57
FEC-056	57	ROD-439	57
FEC-057	57	ROD-440	58
FEC-058	57	TAP-753	59
FEC-060	57	TMM-355	58
FMX-009	58	TMM-356	58
FMX-010	58	TMM-357	58
FPC-820	57	TMM-363	58
FPG-822	58	TMM-364	58
GAX-007	59	TMM-416	58
GAX-053	59	VED-335	57
GAX-157	59		

**FEC-056**Fecho central direito  
Janela de correr**CTF-055**Contrafecho  
Janela e porta de correr**FEC-057**Fecho central direito  
Janela de correr**CTF-370**Contrafecho  
Janela e porta de correr**FEC-058**Fecho central esquerdo  
Janela de correr**COC-731**Concha simples  
Janela e porta de correr**FEC-060**Fecho central direito  
Janela de correr**COT-741**Fecho concha  
s/ chave e trava reta  
Janela e porta de correr**GUI-332**Guia deslizante  
Janela e porta de correr**COT-742**Fecho concha  
c/ chave e trava reta  
Janela e porta de correr**ROD-426**Roldana  
c/ regulagem s/ rolamento  
Janela de correr**COT-782**Fecho concha c/ chave  
Porta de correr**DRE-329**Caixa de dreno e vedador  
Janela de correr**COC-771**Concha lisa  
Janela e porta de correr**VED-335**Vedador de vento  
Janela de correr**FPC-820**Fechadura  
Porta de correr**CTF-409**Contrafecho p/ fechadura  
Porta de correr**ROD-439**Roldana dupla com rolamento  
e regulagem  
Porta de correr

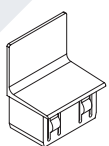


**ROD-440**

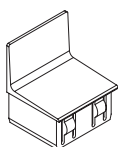
Roldana c/ regulagem e rolamento  
Porta de correr

**TMM-355**

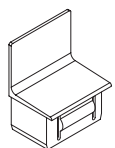
Recobrimento janela maxim-ar 90°

**TMM-356**

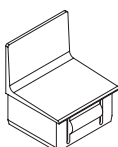
Recobrimento Porta de correr

**TMM-357**

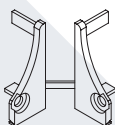
Recobrimento Porta de correr

**TMM-363**

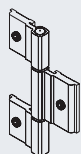
Recobrimento Porta de correr

**TMM-364**

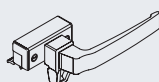
Recobrimento Porta de correr

**TMM-416**

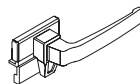
Recobrimento da soleira  
Porta de correr

**DBR-837**

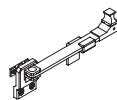
Dobradiça - Portinhola

**FMX-009**

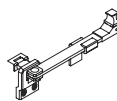
Fecho direito  
Janela maxim-ar

**FMX-010**

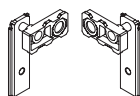
Fecho direito  
janela maxim-ar s/ baguete

**HAS-011**

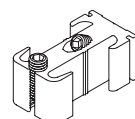
Haste de comando  
janela maxim-ar s/ baguete

**HAS-059**

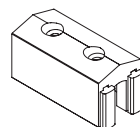
Haste de comando  
janela maxim-ar c/ baguete

**BRA25-250****BRA25-500****BRA25-750****BRA25-810****PIV-752**

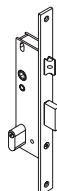
Pivô da folha  
janela projetante

**CNX-376**

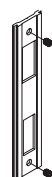
Fixador de travessa  
janela maxim-ar

**BTD-414**

Batedeira  
Janela e porta de correr

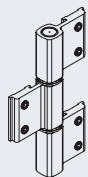
**FPG-822**

Fechadura  
Porta de giro

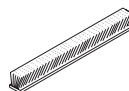
**CTT-295**

Contra testa  
Porta de giro

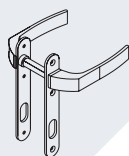
## ACESSÓRIOS



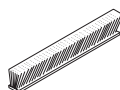
**DBR-840**  
Dobradiça  
Porta de giro



**ESC-5X6**  
Fita vedadora  
s/ barreira plastica



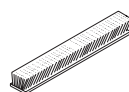
**MCT-927**  
Maçaneta  
Porta de giro



**ESC-5X8**  
Fita vedadora  
s/ barreira plastica



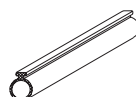
**FCH-338**  
Fecho tipo unha de sobrepor  
Porta de giro



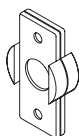
**ESC-7.5X6**  
Fita vedadora  
s/ barreira plastica



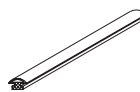
**ALA-057**  
Alavanca c/ cavalete  
Janela basculante



**GAX-007**  
Guarnição em EPDM



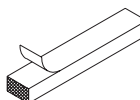
**PIV-753**  
Pivô  
Janela basculante



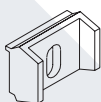
**GAX-053**  
Guarnição adesiva  
esponjosa



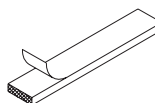
**TAP-753**  
Botão tampa furo  
Janela e porta de correr



**GAX-157**  
Guarnição adesiva  
esponjosa



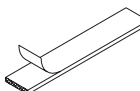
**PRE-190**  
Botão de fixação do remate  
Janela e porta



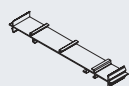
**GAX-171**  
Guarnição adesiva  
esponjosa



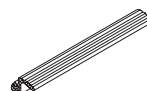
**CHU-787**  
Chumbador  
Contramarco



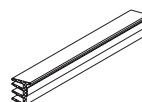
**GAX-172**  
Guarnição adesiva  
esponjosa



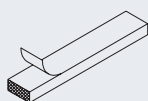
**CHU-838**  
Chumbador  
Contramarco



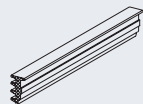
**GAX-239**  
Guarnição em EPDM



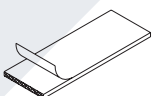
**GAX-256**  
Guarnição em EPDM

**GAX-258**

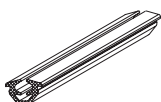
Guarnição adesiva esponjosa

**GAX-259**

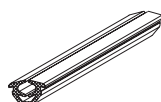
Guarnição em EPDM

**GAX-282**

Guarnição adesiva esponjosa

**GAX-283**

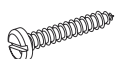
Guarnição em EPDM

**GAX-284**

Guarnição em EPDM

**PCP-3595IN+**

Parafuso 3.5 x 9.5mm cabeça de panela

**PCP-4216IN+**

Parafuso 4.2 x 16mm cabeça de panela

**PCP-4225IN+**

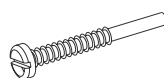
Parafuso 4.2 x 25mm cabeça de panela

**PCP-4232IN+**

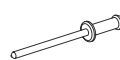
Parafuso 4.2 x 32mm cabeça de panela

**PCP-PG4832IN+**

Parafuso 4.8 x 32mm cabeça de panela ponta guia

**PCP-PG4850IN+**

Parafuso 4.8 x 50mm cabeça de panela ponta guia

**RBT-115**

Rebite

**RBT-117**Rebite  $\varnothing$  3,2x10,2mm



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