

D'Alumínio

SOLUÇÕES EM ALUMÍNIO E COMPONENTES



LINHA D'ALUMÍNIO SUPREMA - DS

Inovação perfeita para seus projetos



Catálogo Técnico

LINHA DS

Uma linha inovadora.

A Linha DS da D'Alumínio quer consolidar o mercado de construção civil com grande aceitação e alto índice de satisfação de seus clientes. Além disso, conta com equipamentos e mão-de-obra especializada, atuando em Rondônia.

Inovadora em todos os sentidos, a Linha DS incorporou a mudança do sistema artesanal de construção de esquadrias para o sistema industrializado sem perder o conceito de design diferenciado.

Empregando a mais avançada tecnologia em seu processo de fabricação, a Linha DS também proporciona maior produtividade e qualidade em sua industrialização. Além disso, apresenta um desempenho superior ao estabelecido pelas Normas Brasileiras.

A linha DS da D'Alumínio possui design robusto e componentes com alto padrão de qualidade, para manter sua competitividade. Extremamente versátil, oferece as melhores soluções estéticas para os mais diversos projetos de arquitetura.



Linha DS. Flexibilidade de projetos e desempenho superior.

Mais liberdade de escolha

A Linha DS da D'Alumínio se destaca pela versatilidade, permitindo ao fabricante construir janelas e portas com diferentes características.

Apresenta diversas tipologias, que vão de janelas de correr a maxim-ar, além de portas de giro, entre outras.

PRINCIPAIS VANTAGENS

- Diversidade de tipologias
- Visual robusto
- Componentes com alto padrão de qualidade

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LINHA DS

Capítulo 1

Normas ABNT

No Brasil, o comportamento estrutural de uma esquadria está regulamentada pela Norma NBR 10821.

Esta norma fixa as condições de desempenho de caixilhos em edificações residenciais e comerciais e visa assegurar ao consumidor, o recebimento de produtos com condições mínimas exigíveis de desempenho, especificamente quanto à resistência a cargas uniformemente distribuídas e que apresenta um roteiro de cálculo da pressão de ensaio (vento e vedação).

Gráfico das isopletas da velocidade básica do vento: "V" em m/s no Brasil.

Figura 1

Isopletas dos ventos (em metros por segundo)

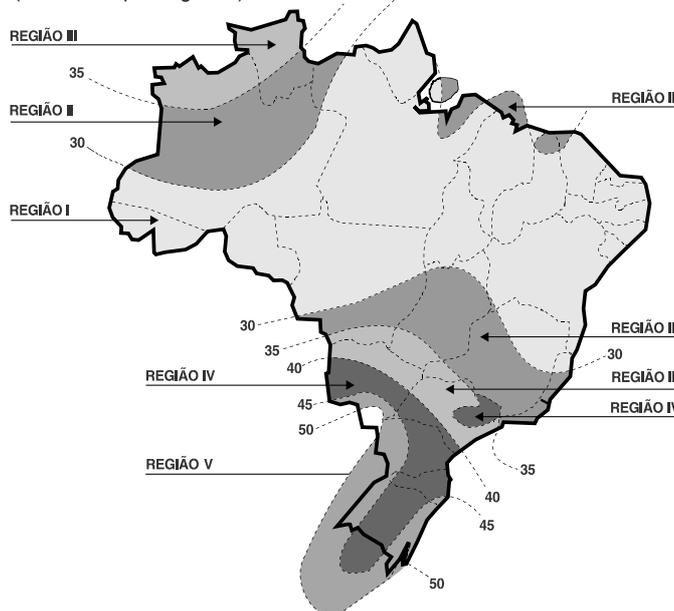


Tabela 1

Pressão de ensaio de cargas uniformemente distribuídas.

Classe	Região do País	Pressão de projeto Pp em Pa	Pressão de sucção, em Pa, P x 0,8	Pressão de ensaio P= Ppx1,5 em Pa
Residencial Unifamiliar ou Comercial simples até 2 pavimentos Normal	I	300	350	450
	II	400	500	600
	III	550	650	800
	IV	650	800	950
	V	850	1000	1250
Residencial ou Comercial até 4 pavimentos ou 12 metros Melhorada	I	450	550	650
	II	600	700	900
	III	800	950	1200
	IV	1000	1200	1500
	V	1200	1450	1800
Comercial pesada ou edifícios residenciais com mais de 5 pavimentos Reforçada	Todas as regiões	Calcular conforme NBR 6123	Calcular conforme NBR 6123	Calcular conforme NBR 6123
Arquiteturas especiais (Shopping, industriais, hospitais, etc.) Excepcional	Todas as regiões	Calcular conforme NBR 6123	Calcular conforme NBR 6123	Calcular conforme NBR 6123

Notas: 1) Na classe reforçada, os valores de pressão, calculados conforme a NBR-6123, deverão ser, pelo menos, iguais aos valores das pressões de ensaio da classe Melhorada.
2) Nos casos de arquiteturas especiais da classe Excepcional, os valores de pressão de ensaio, calculados conforme a NBR-6123, quando inferiores aos valores da classe Melhorada, deverão ser justificados através de ensaios em túneis de vento ou planilhas de cálculo e assinadas por um responsável técnico.

Tabela 2

Pressão de ensaio de estanqueidade à água

Classe de utilização	Região do País	Pressão de estanqueidade à água - Pressão de projeto de vento - Pp x 0,15, em Pa
Residencial Unifamiliar ou Comercial simples - até dois pavimentos Normal	I	40
	II	60
	III	80
	IV	100
	V	120
Residencial ou Comercial até 4 pavimentos ou 12 metros Melhorada	I	60
	II	90
	III	120
	IV	150
	V	180
Comercial pesada ou edifícios residenciais com mais de 5 pavimentos Reforçada	Todas as regiões	Pressões de ensaio = o maior dos dois valores. 0,15 x Pp (pressão de projeto das cargas de vento) e os valores das pressões da classe Melhorada.
Arquiteturas especiais (Shopping, industriais, hospitais, etc.) Excepcional	Todas as regiões	Pressões de ensaio = o maior dos dois valores: 0,15 x Pp (pressão de projeto das cargas de vento) e os valores das pressões de classe Melhorada.

Tabela 3

Fator topográfico de correções₁

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 Correções₂

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 s₃ = 0,88

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)

Ce-Ci = Para este exemplo, adotamos o valor de 1,5 para (Ce-Ci) 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:

V₀ Velocidade Básica do Vento em m/s, dada pelas isopletas. (Figura 1)

S₁ Fator Topográfico de Correção, dado pela tabela 3.

S₂ 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.

S₃ 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

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

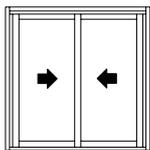


LINHA DS

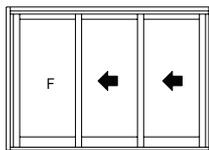
Capítulo 2

Tipologia

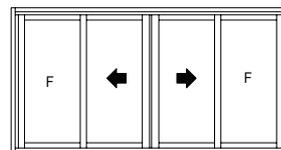
JANELA 2 FOLHAS



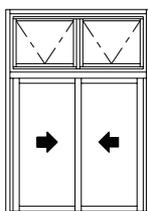
JANELA 3 FOLHAS



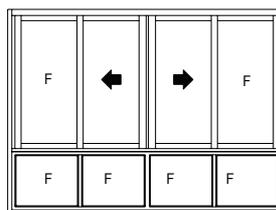
JANELA 4 FOLHAS



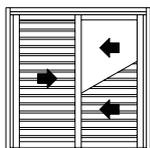
JANELA 2 FOLHAS C/ BANDEIRA MÓVEL



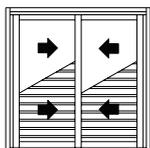
JANELA 4 FOLHAS C/ PEITORIL FIXO



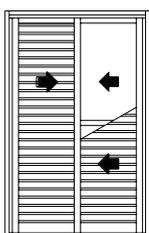
JANELA 3 FOLHAS



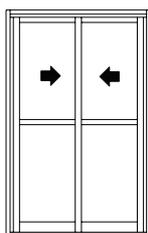
JANELA 4 FOLHAS



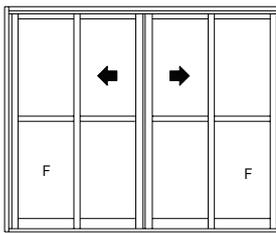
PORTA 3 FOLHAS



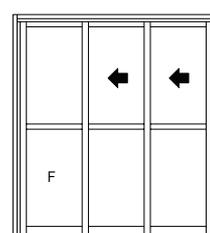
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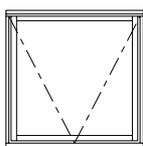
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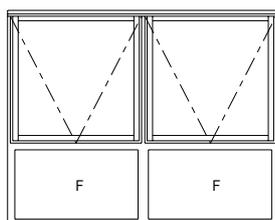
PORTA 3 FOLHAS



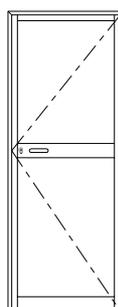
JANELA MAXIM-AR 1 FOLHA



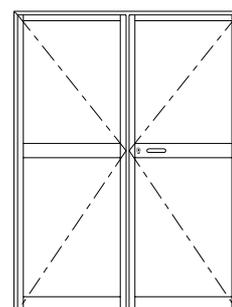
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PORTA 1 FOLHAS



PORTA 2 FOLHAS

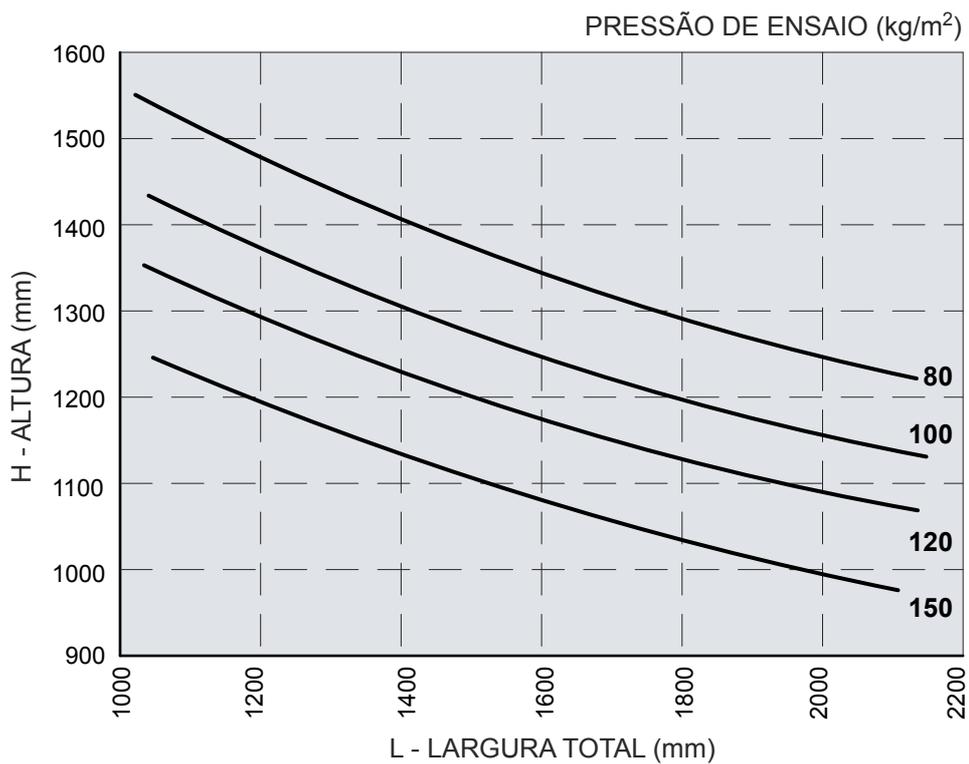
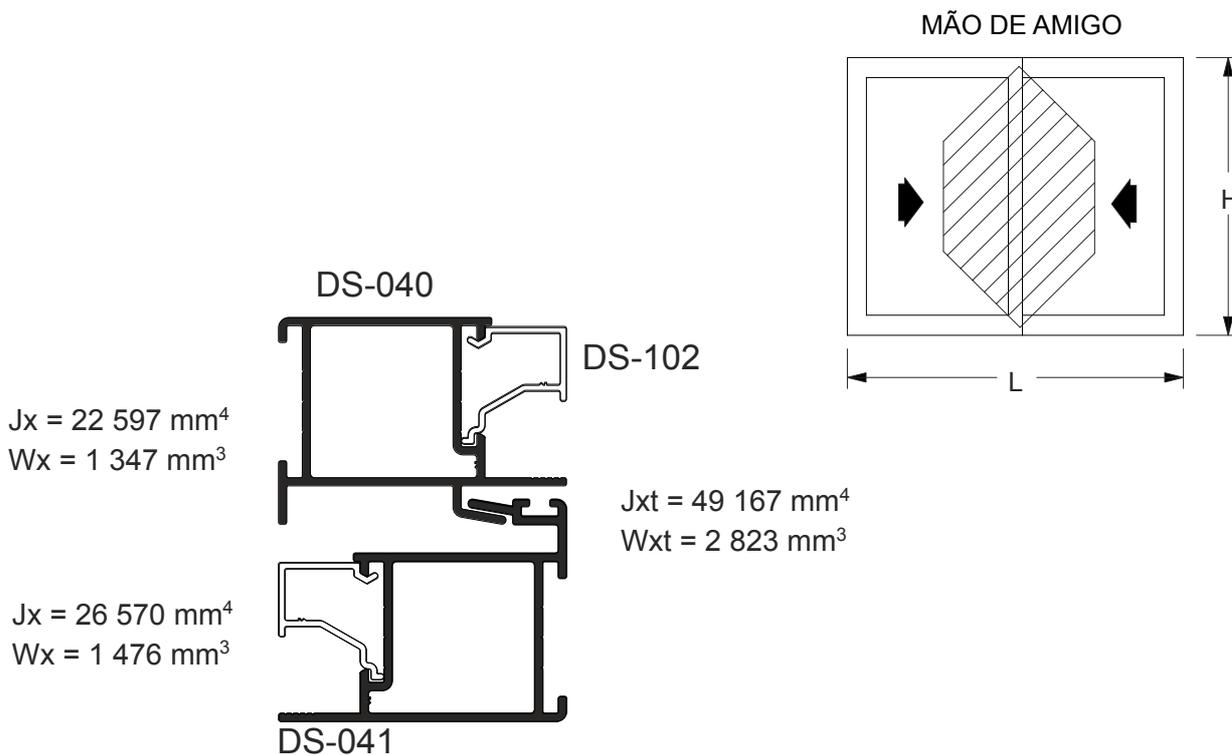




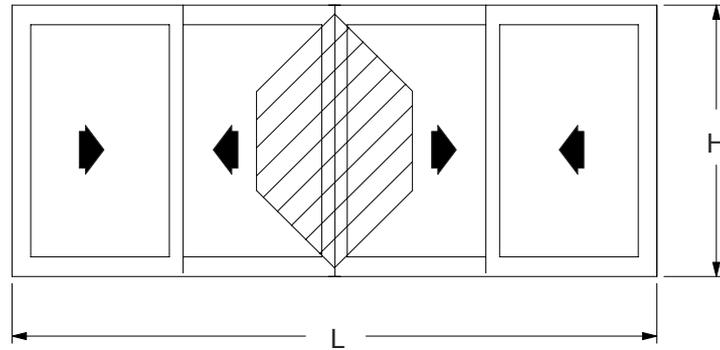
LINHA DS

Capítulo 3

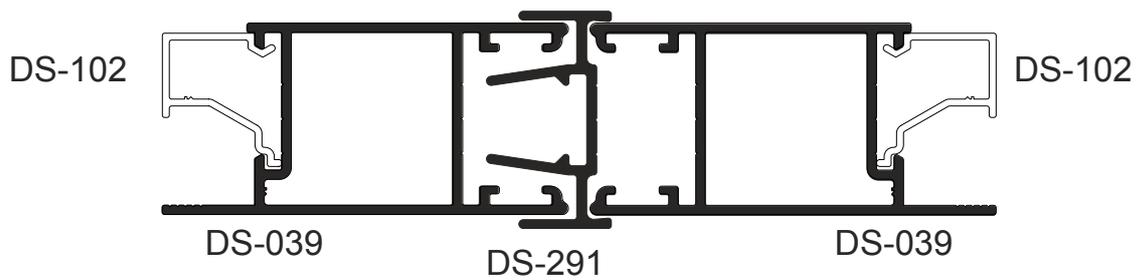
Diagramas de dimensões



CENTRAL 4 FOLHAS



$J_{xt} = 53\,423 \text{ mm}^4$
 $W_{xt} = 3\,951 \text{ mm}^3$

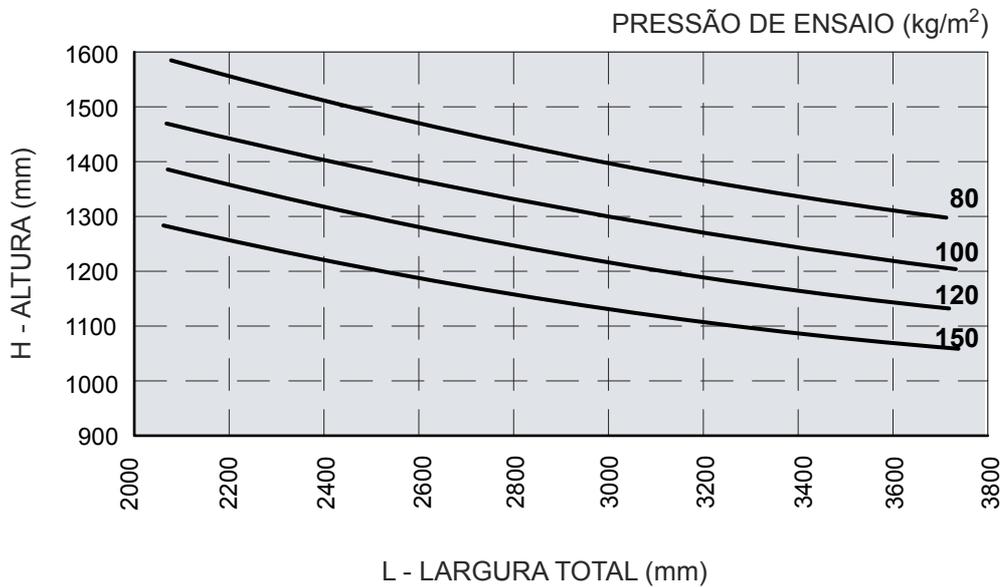


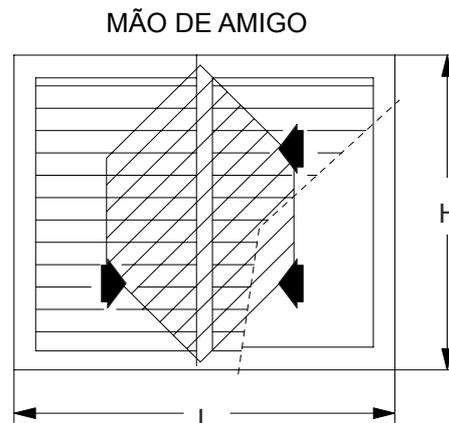
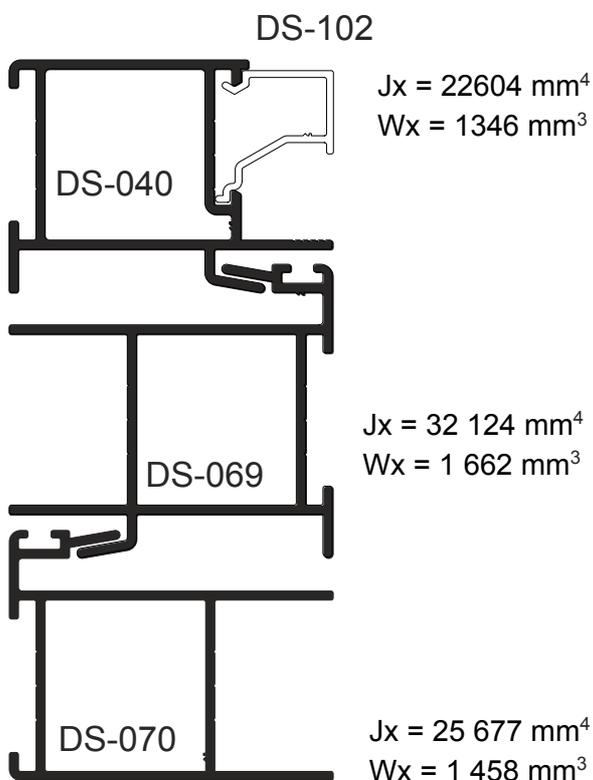
DS-039/102

$J_x = 22\,473 \text{ mm}^4$
 $W_x = 1\,791 \text{ mm}^3$

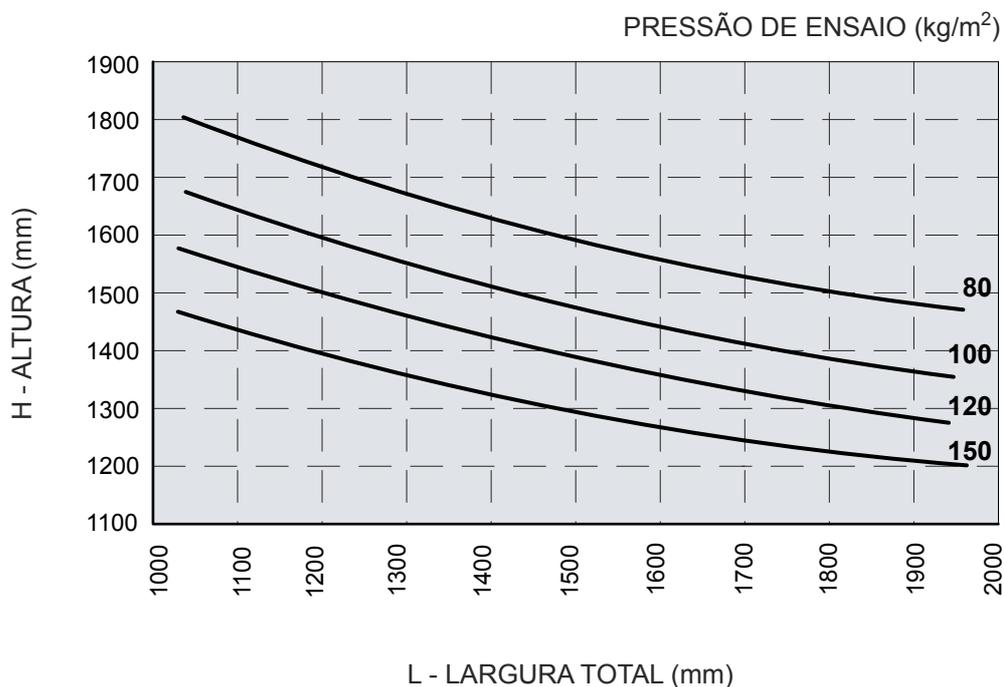
DS-039/291/102

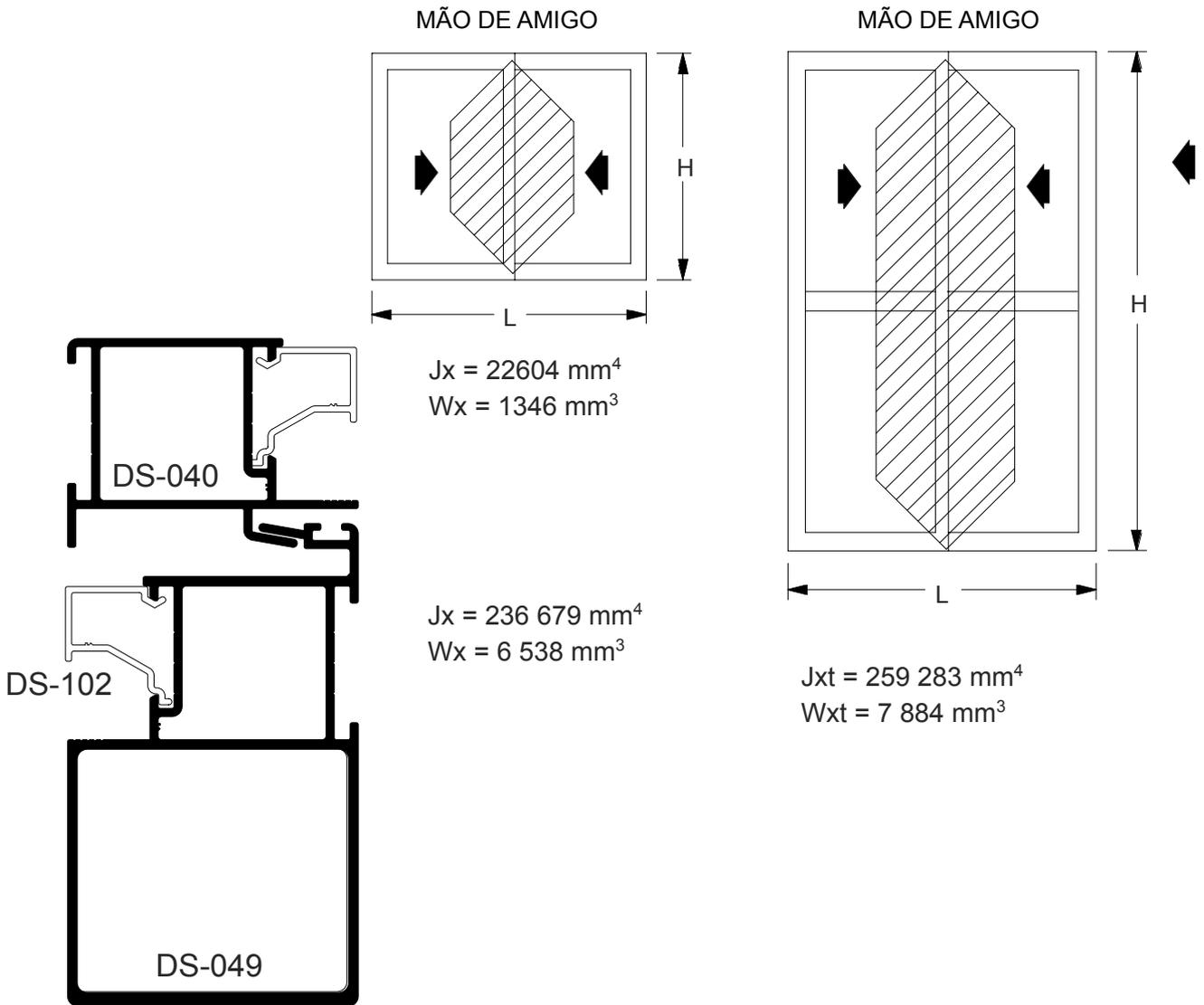
$J_x = 30\,950 \text{ mm}^4$
 $W_x = 2\,160 \text{ mm}^3$



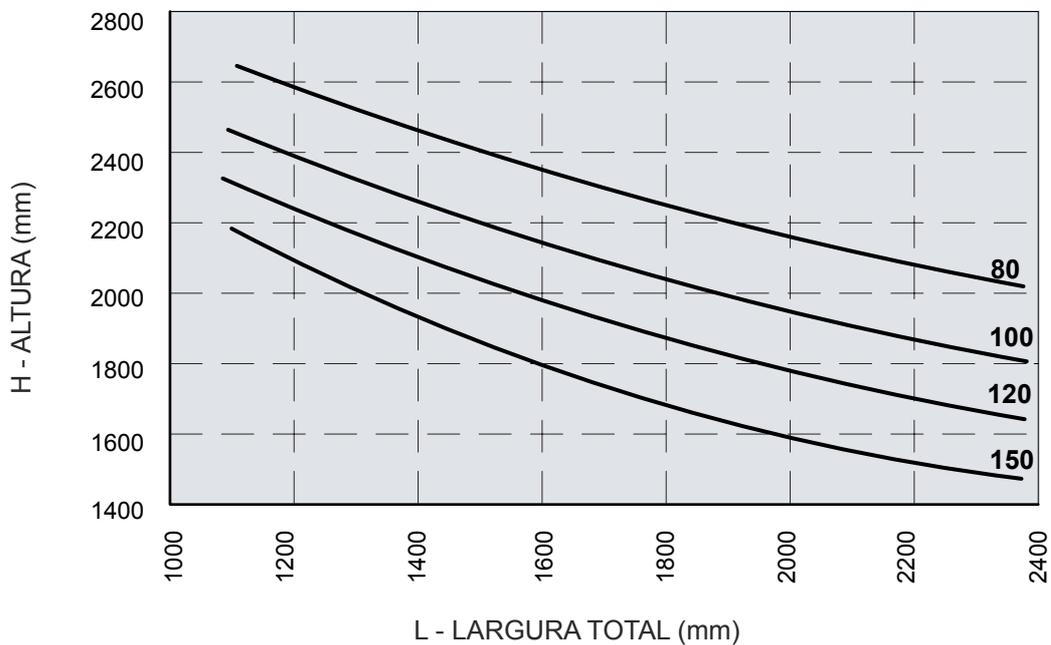


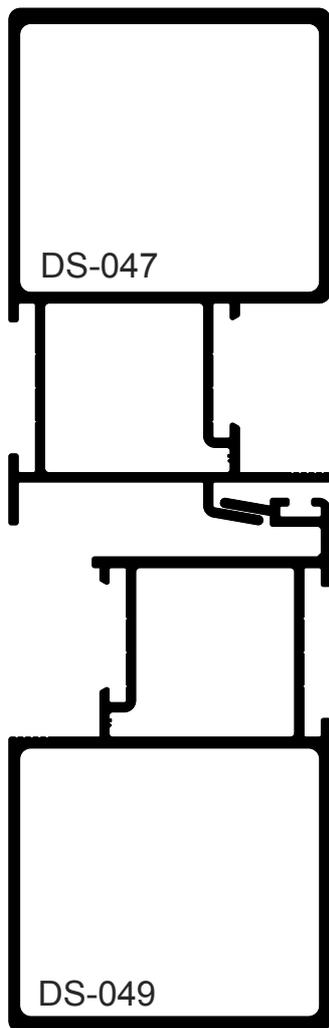
$J_{xt} = 78608 \text{ mm}^4$
 $W_{xt} = 4502 \text{ mm}^3$





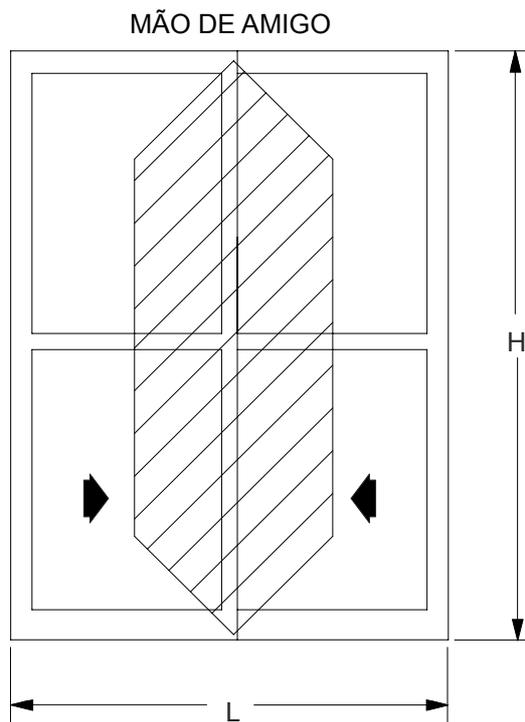
PRESSÃO DE ENSAIO (kg/m²)



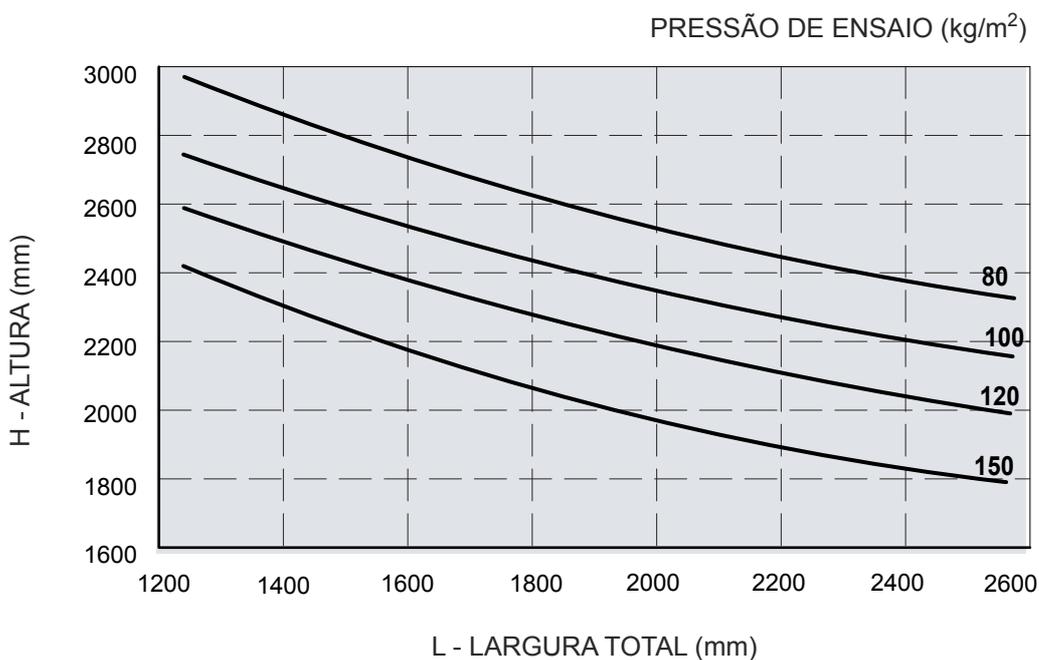


$J_x = 207\,351\text{ mm}^4$
 $W_x = 5\,675\text{ mm}^3$

$J_x = 217\,149\text{ mm}^4$
 $W_x = 5\,565\text{ mm}^3$

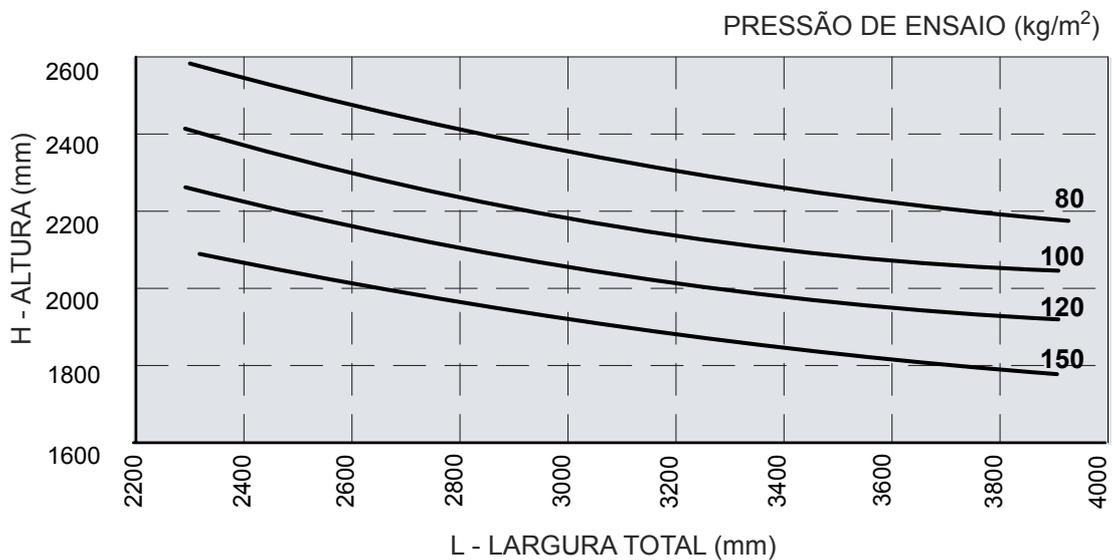
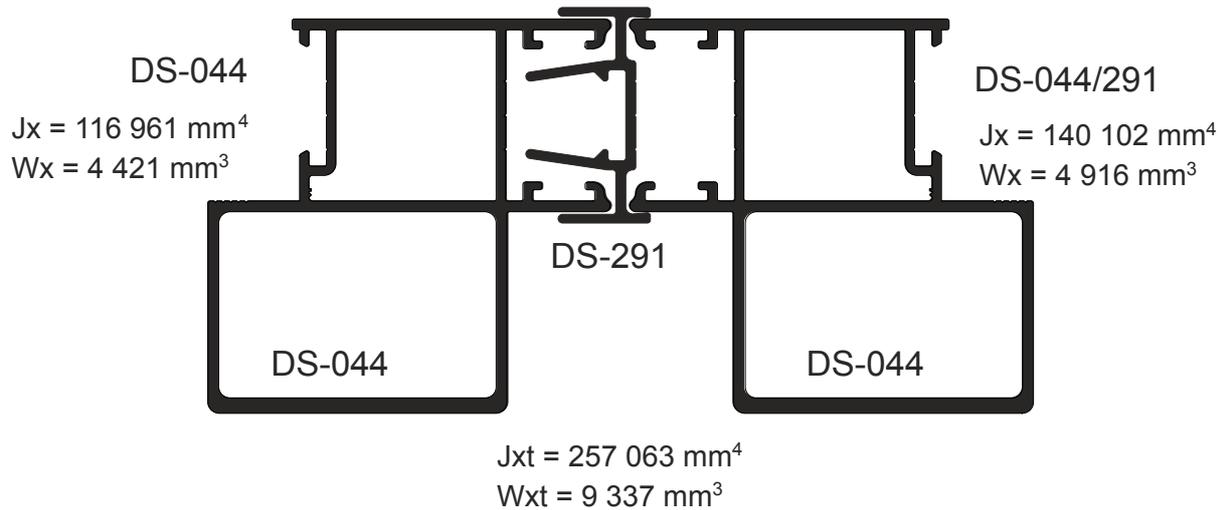
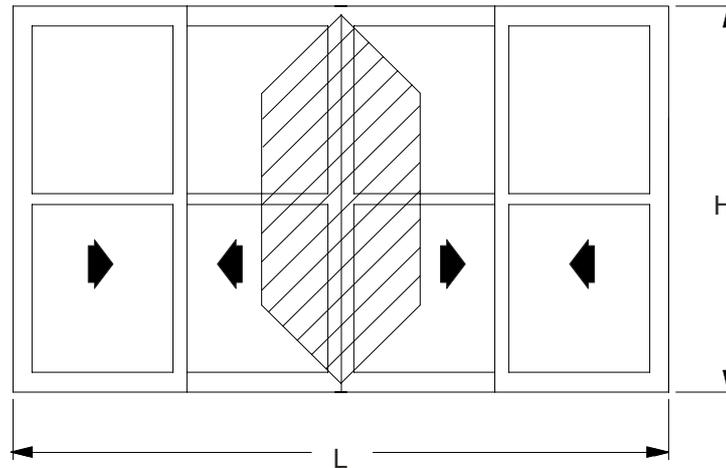


$J_{xt} = 424\,500\text{ mm}^4$
 $W_{xt} = 11\,240\text{ mm}^3$

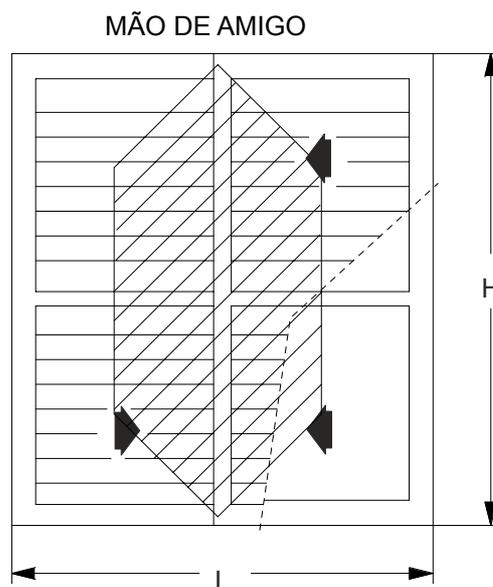
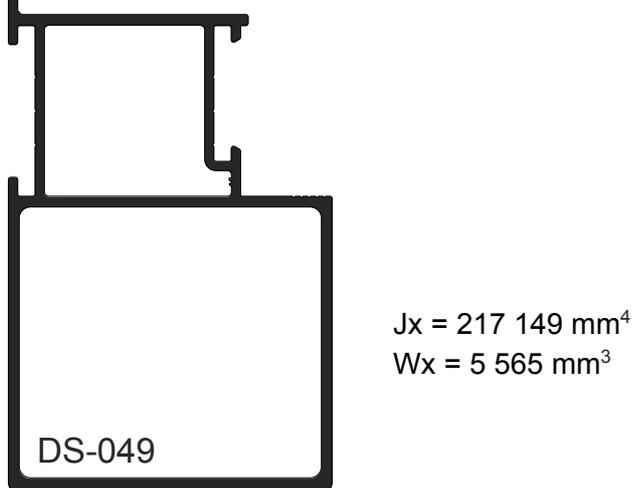
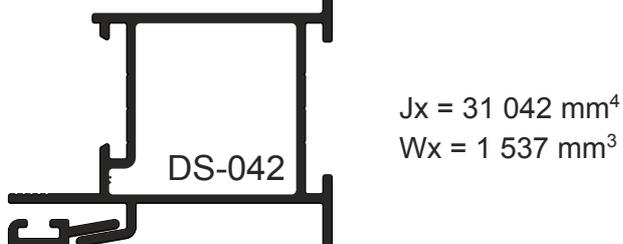
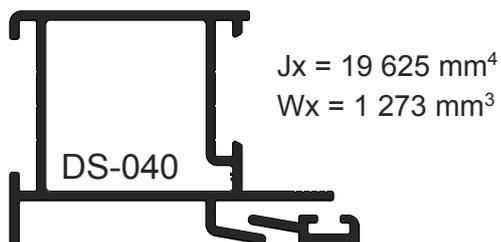


OBS.: Não ultrapassar 70kg por folha.

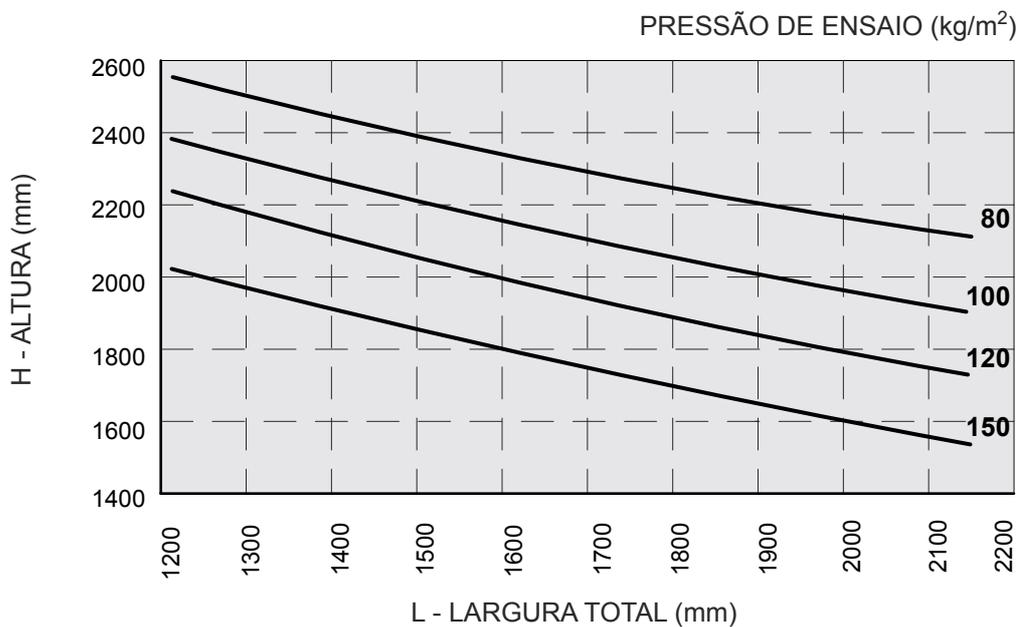
CENTRAL 4 FOLHAS



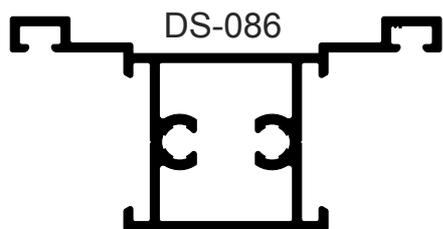
OBS.: Não ultrapassar 70kg por folha.



$J_x = 267\ 816\ \text{mm}^4$
 $W_x = 8\ 375\ \text{mm}^3$



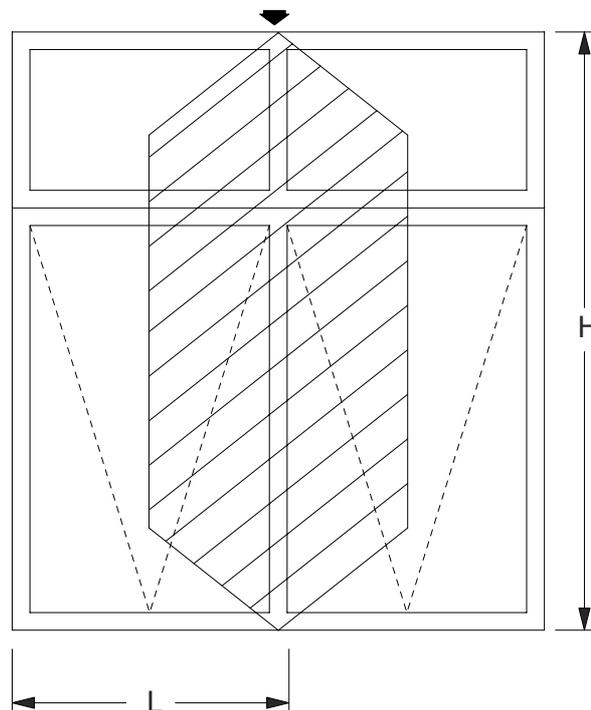
OBS.: Não ultrapassar 70kg por folha.



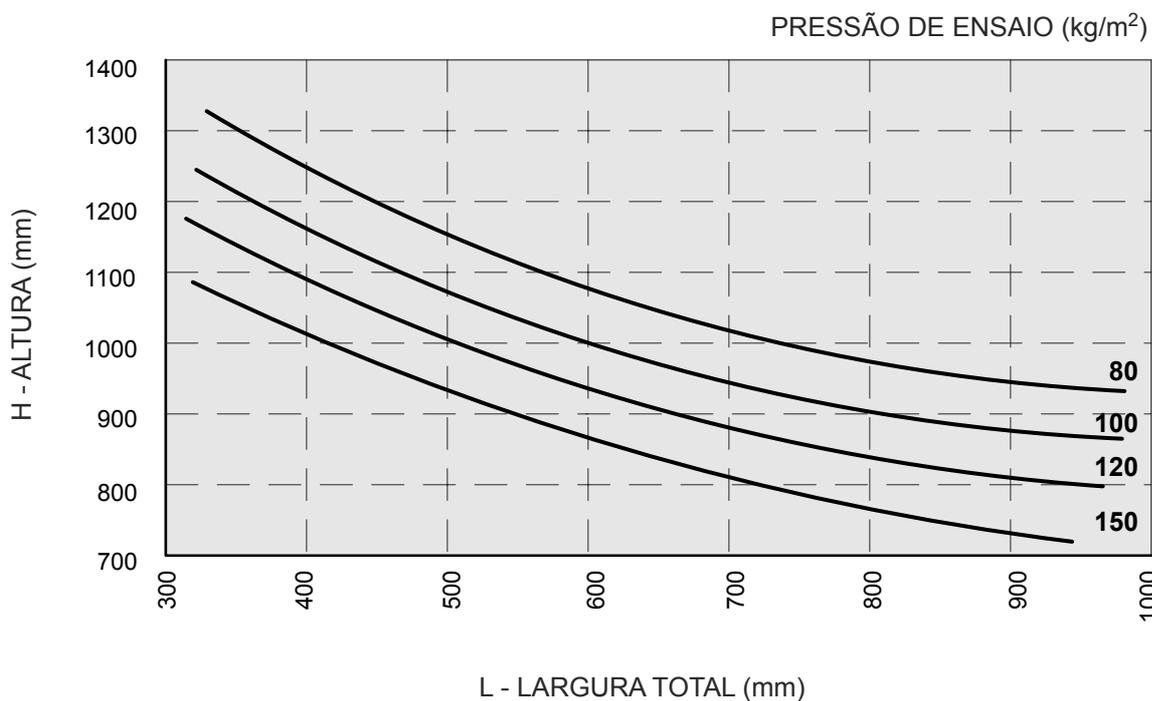
$$J_x = 19\,917 \text{ mm}^4$$

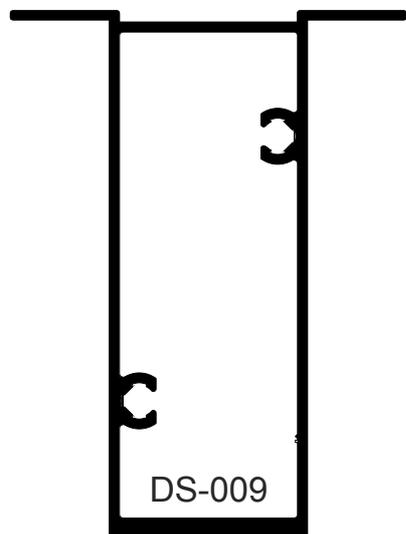
$$W_x = 1\,271 \text{ mm}^3$$

MONTANTE MAXIM-AR

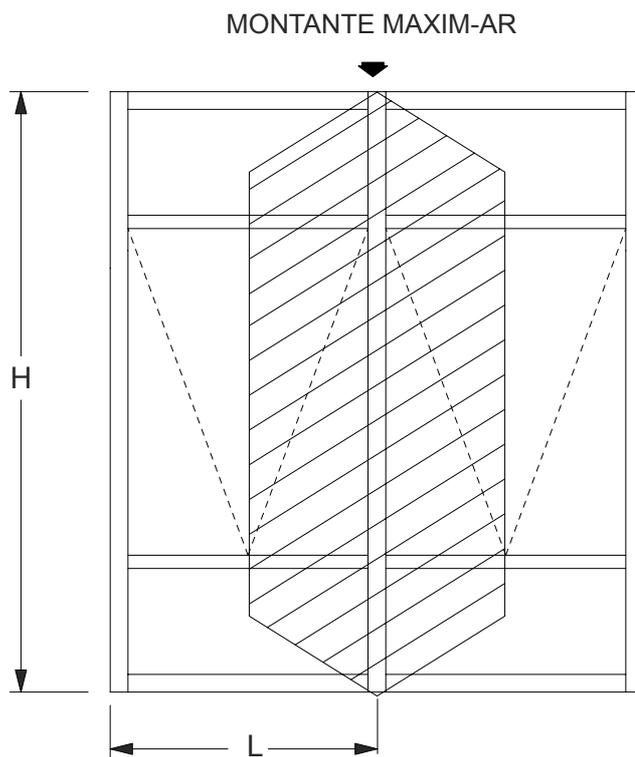


Dimensão máxima da folha móvel 900 x 900mm

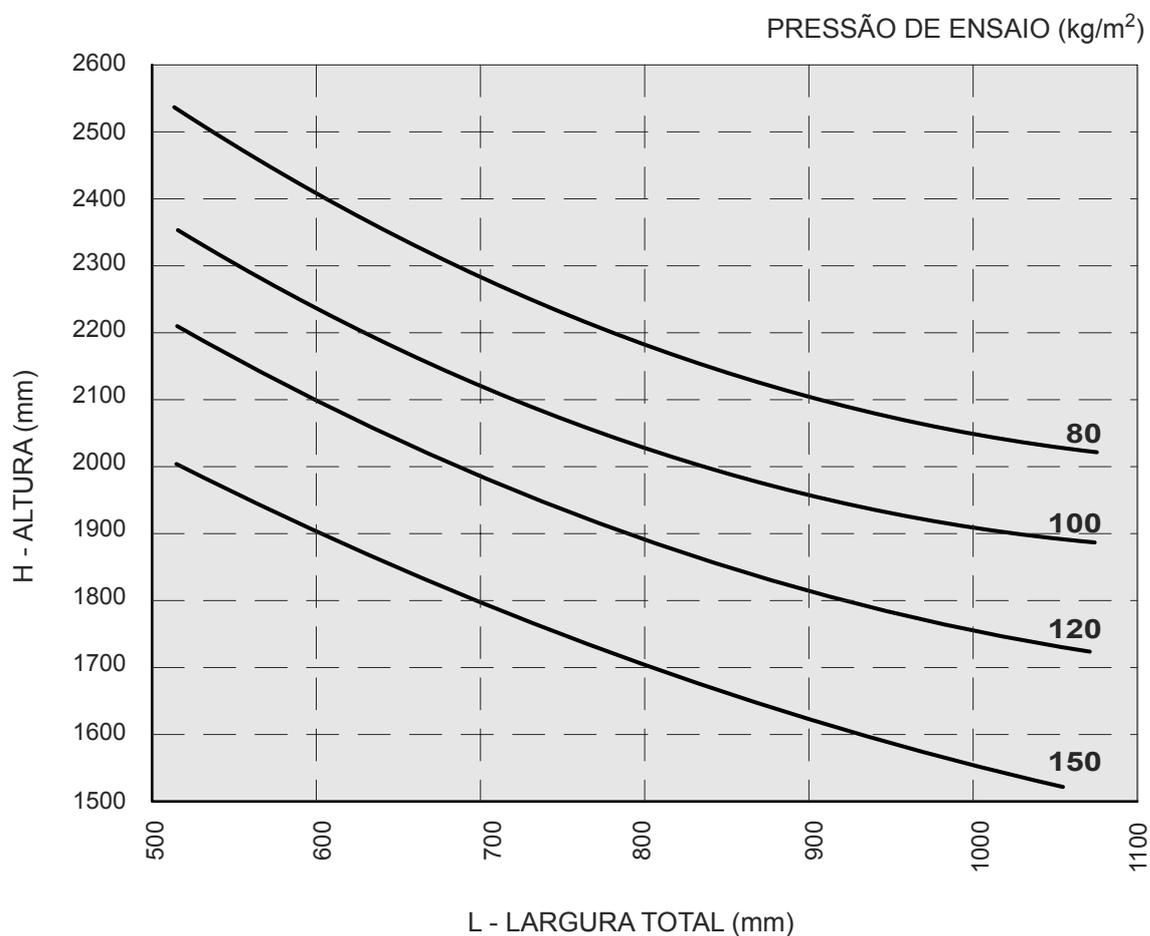


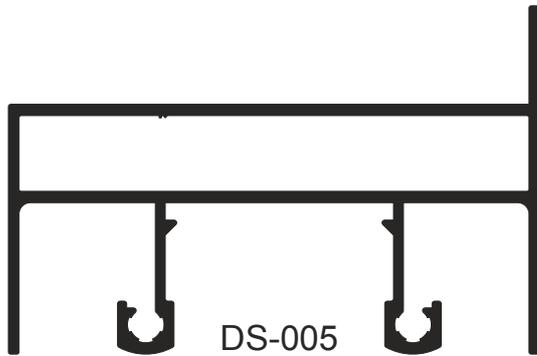


$J_x = 218\,490\text{ mm}^4$
 $W_x = 6\,217\text{ mm}^3$



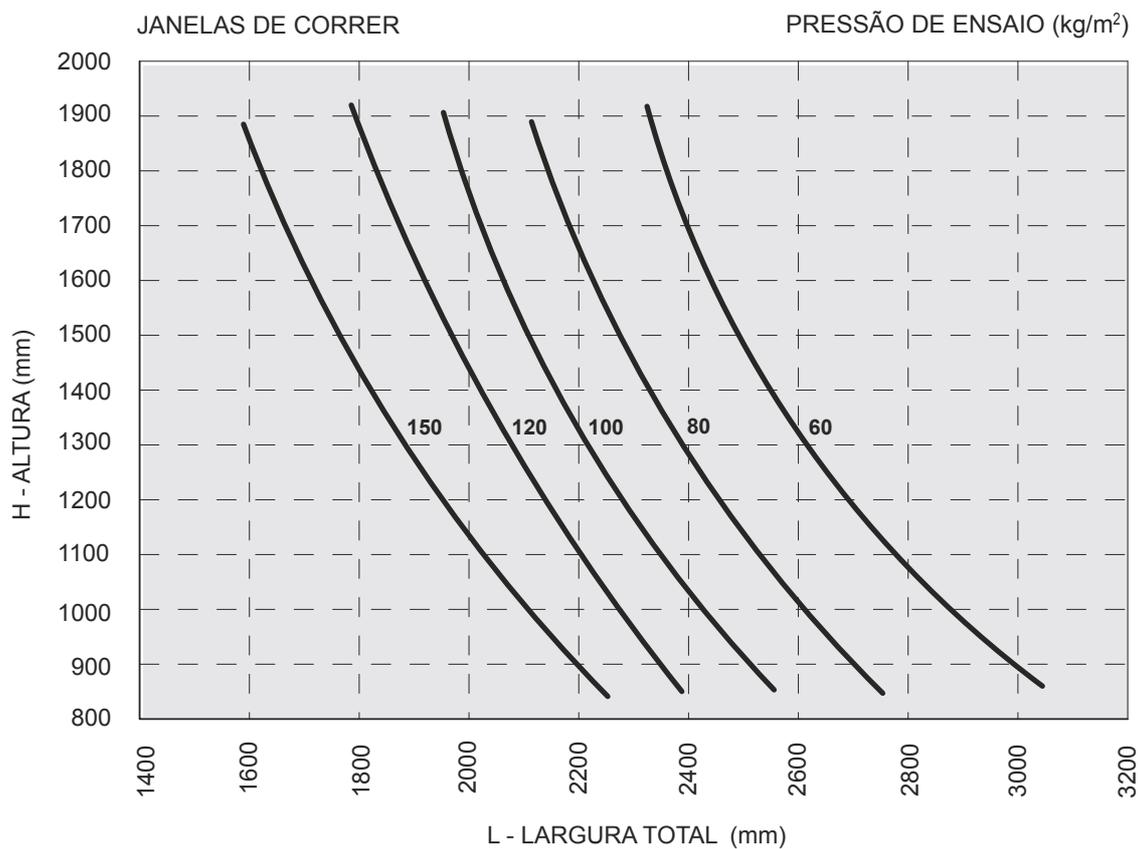
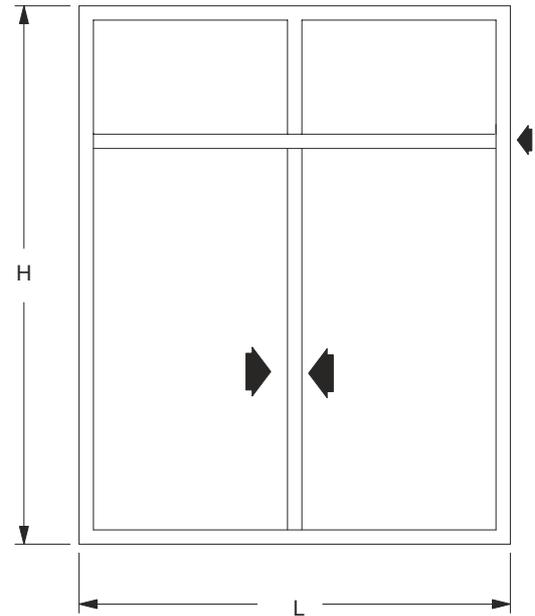
Dimensão máxima da folha móvel 900 x 900mm



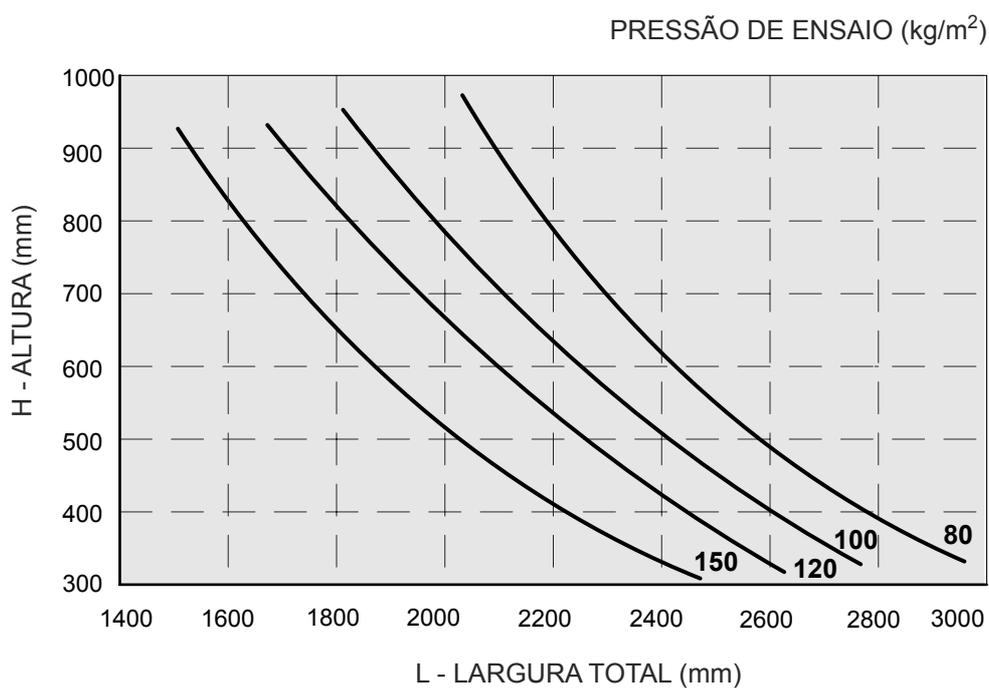
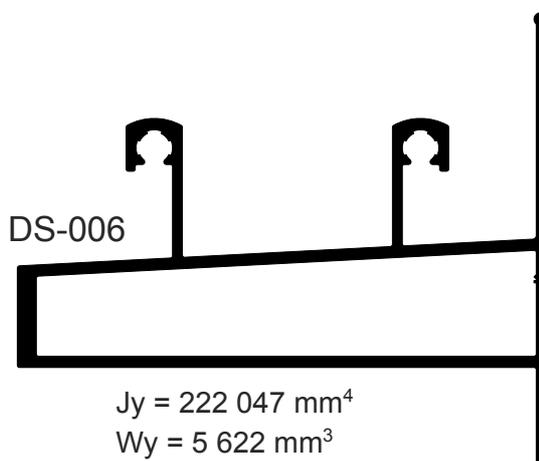
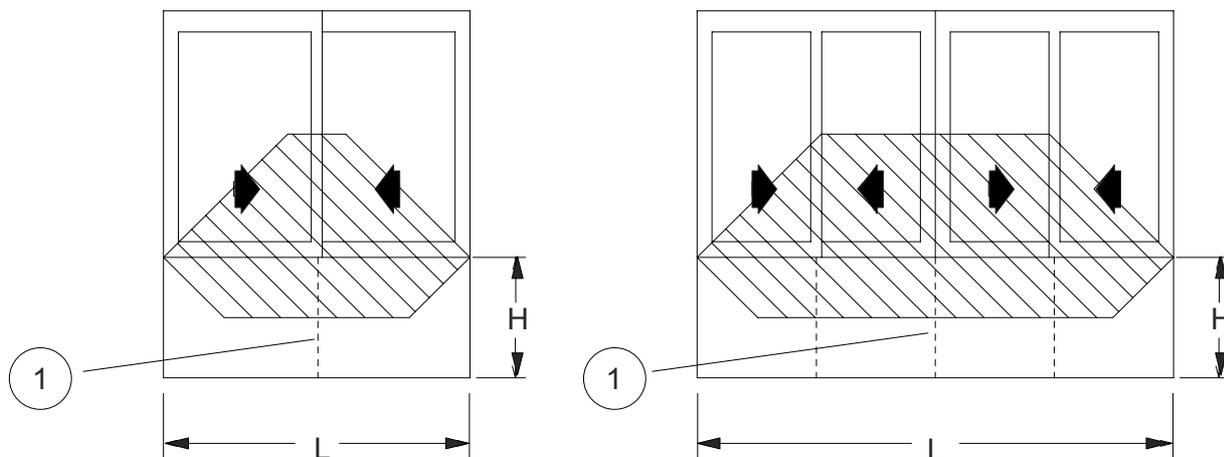


$$J_y = 230\,487 \text{ mm}^4$$

$$W_y = 6\,320 \text{ mm}^3$$

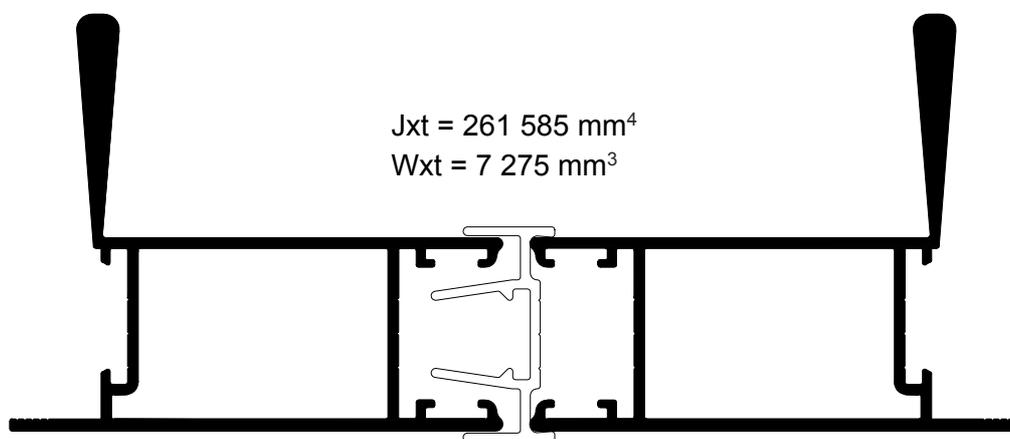
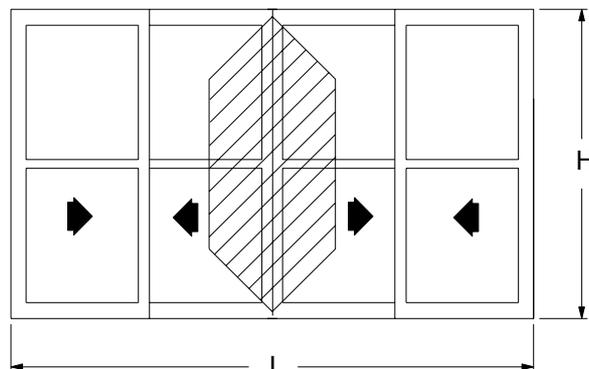


PEITORIL



1 Recomendável o uso de montantes para L acima de 1600mm

CENTRAL 4 FOLHAS



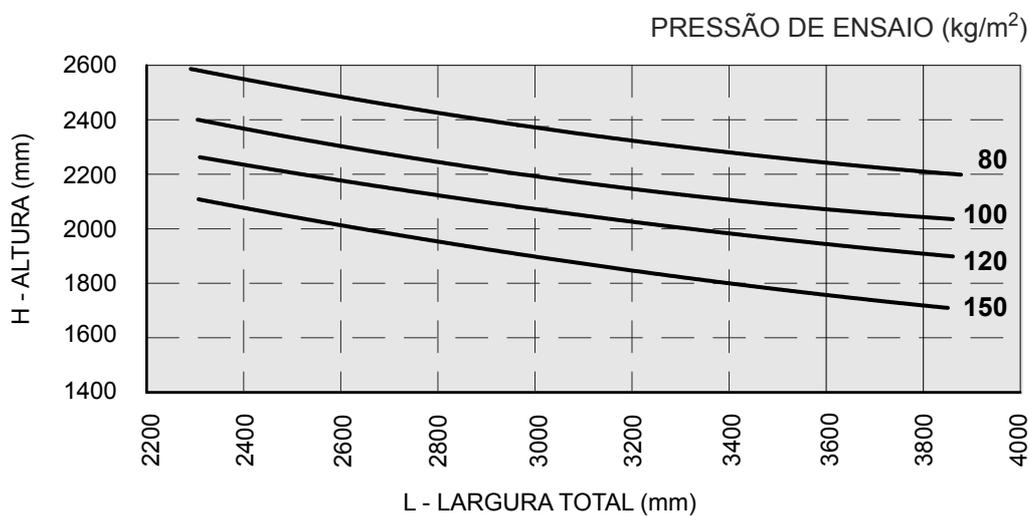
DS-280

$J_x = 112\,834\text{ mm}^4$
 $W_x = 3\,249\text{ mm}^3$

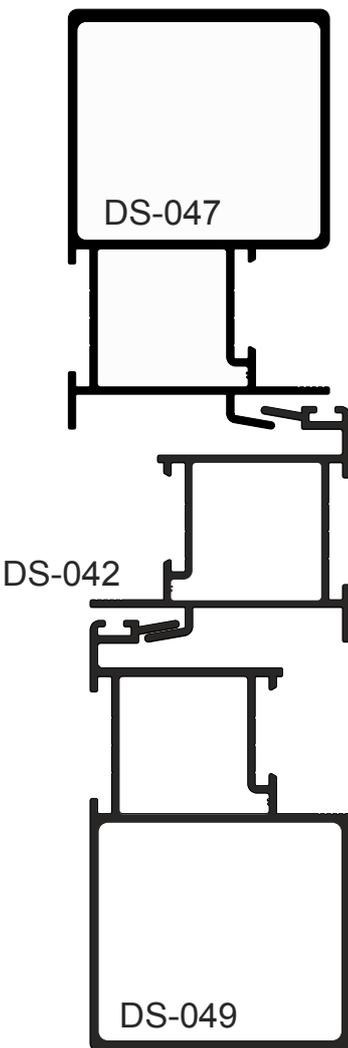
DS-291

DS-280/291

$J_x = 148\,751\text{ mm}^4$
 $W_x = 4\,026\text{ mm}^3$



OBS.: Não ultrapassar 70kg por folha.

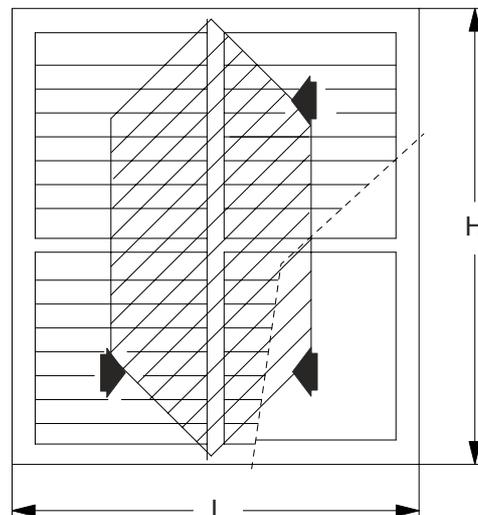


$Jx = 207\,351\text{ mm}^4$
 $Wx = 5\,675\text{ mm}^3$

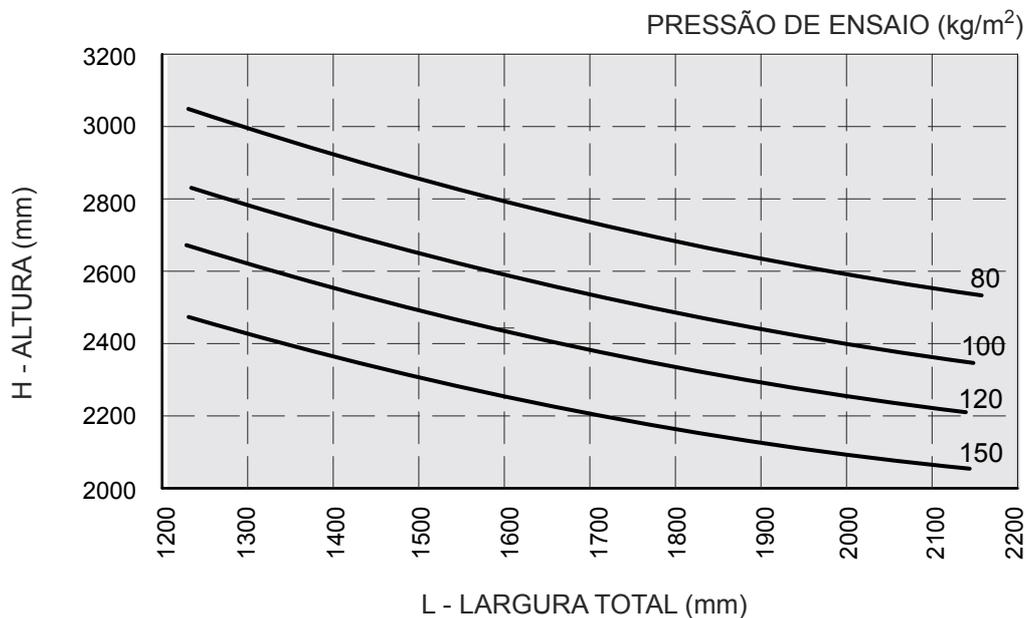
$Jx = 31\,042\text{ mm}^4$
 $Wx = 1\,537\text{ mm}^3$

$Jx = 217\,149\text{ mm}^4$
 $Wx = 5\,565\text{ mm}^3$

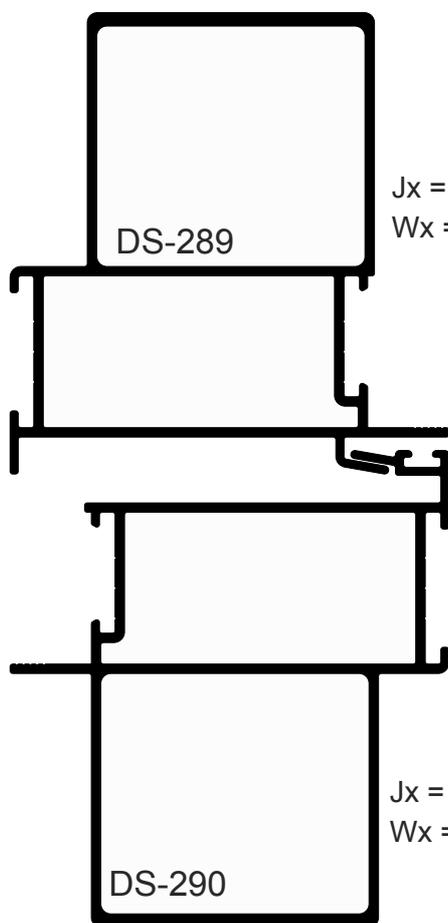
MÃO DE AMIGO



$Jxt = 455\,542\text{ mm}^4$
 $Wxt = 12\,777\text{ mm}^3$



OBS.: Não ultrapassar 70kg por folha.



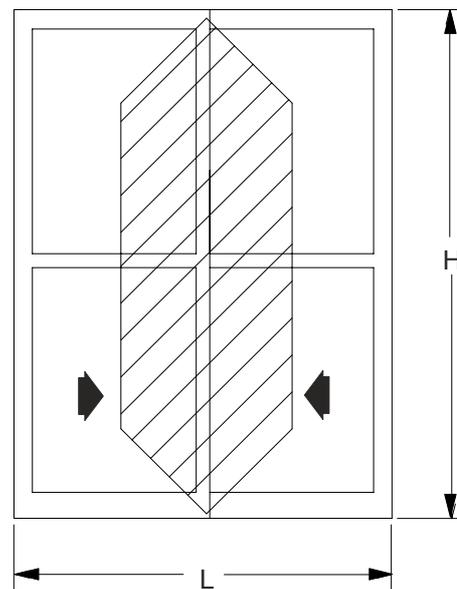
$$J_x = 243\,287 \text{ mm}^4$$

$$W_x = 6\,862 \text{ mm}^3$$

$$J_x = 246\,126 \text{ mm}^4$$

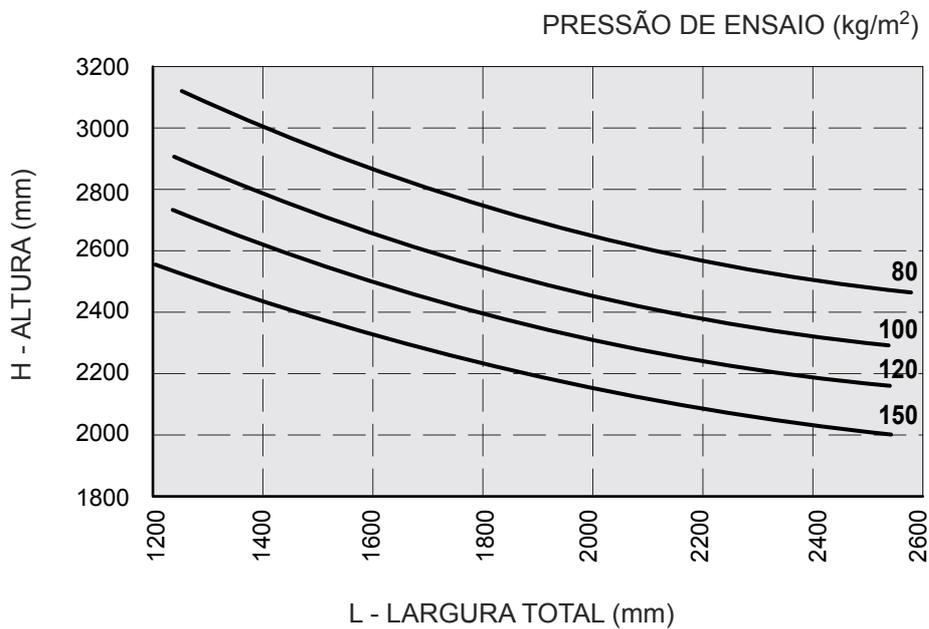
$$W_x = 6\,927 \text{ mm}^3$$

MÃO DE AMIGO

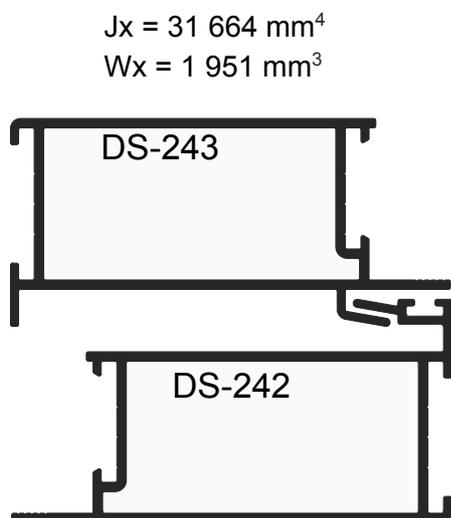


$$J_{xt} = 489\,413 \text{ mm}^4$$

$$W_{xt} = 13\,789 \text{ mm}^3$$

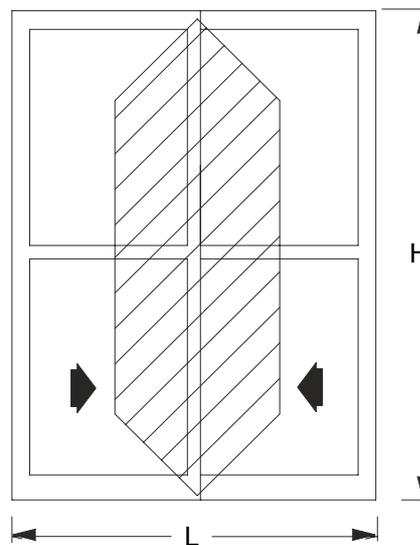


OBS.: Não ultrapassar 70kg por folha.

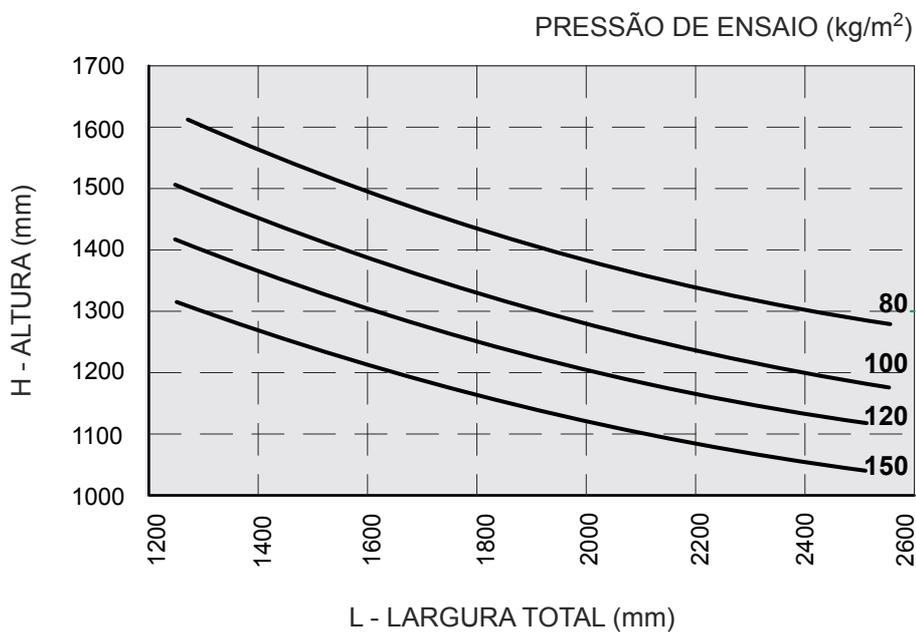


$J_x = 37\,386\text{ mm}^4$
 $W_x = 1\,949\text{ mm}^3$

MÃO DE AMIGO

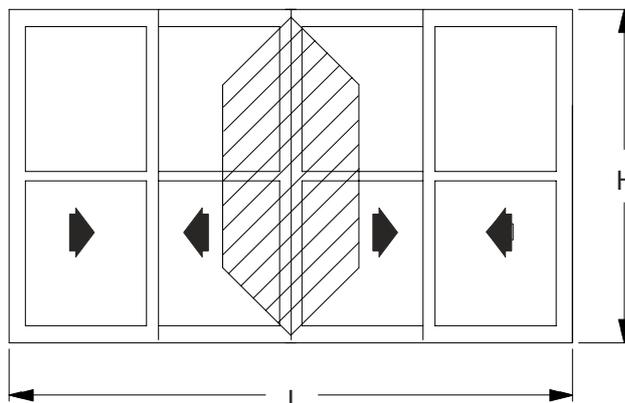


$J_{xt} = 69\,050\text{ mm}^4$
 $W_{xt} = 3\,900\text{ mm}^3$



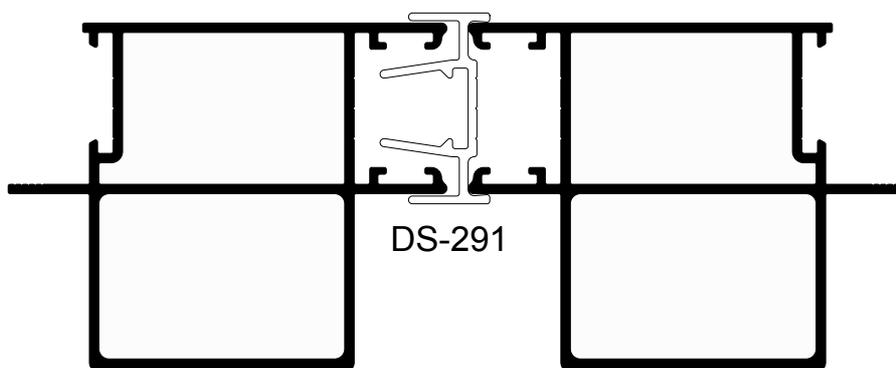
OBS.: Não ultrapassar 70kg por folha.

CENTRAL 4 FOLHAS



$$J_{xt} = 279\,341 \text{ mm}^4$$

$$W_{xt} = 9\,886 \text{ mm}^3$$



DS-273

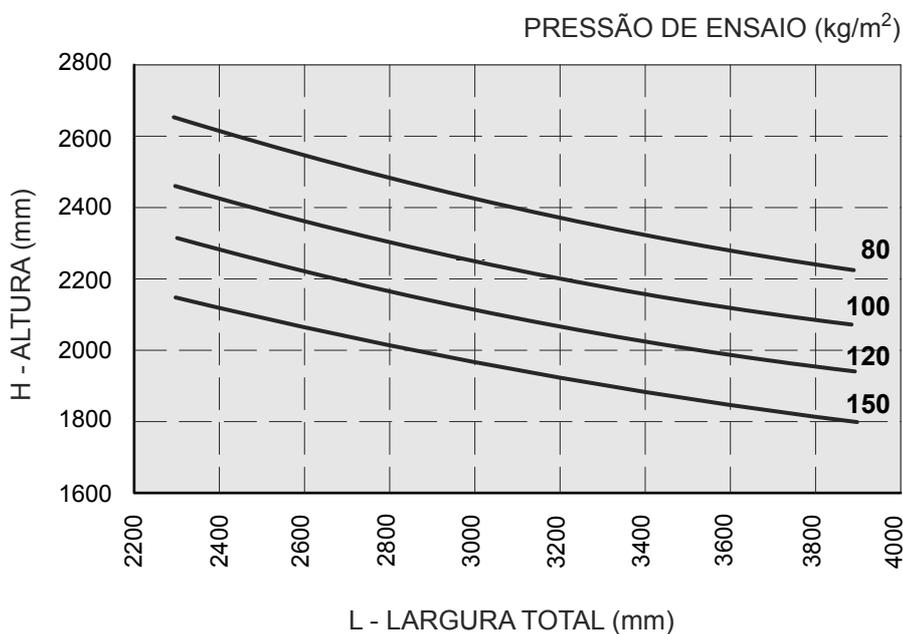
$$J_x = 129\,557 \text{ mm}^4$$

$$W_x = 4\,791 \text{ mm}^3$$

DS-273/291

$$J_x = 149\,784 \text{ mm}^4$$

$$W_x = 5\,095 \text{ mm}^3$$



OBS.: Não ultrapassar 70kg por folha.



LINHA DS

Capítulo 4

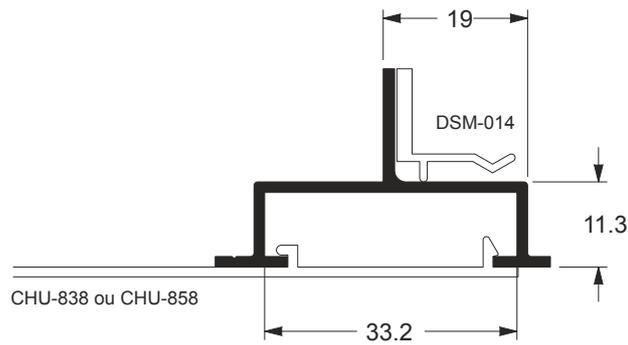
Perfis

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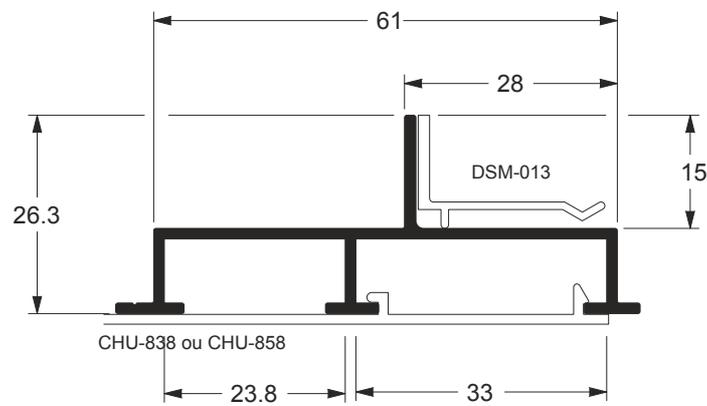
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US-285	63
US-294	63
VZ-006	63
VZ-051	63

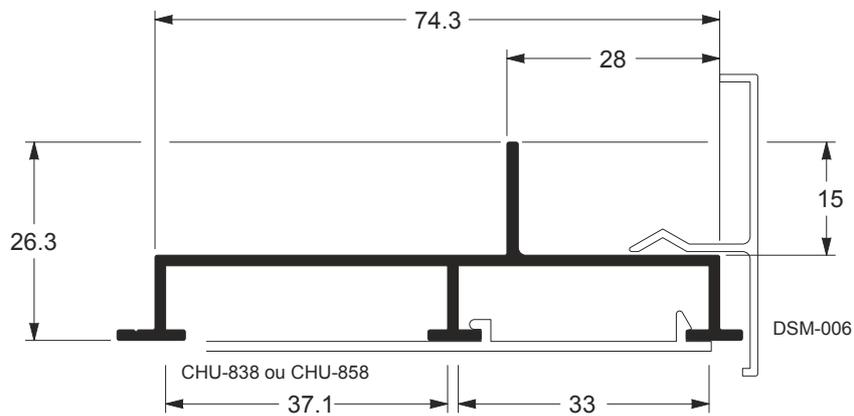
DSM-004
0,304 kg/m



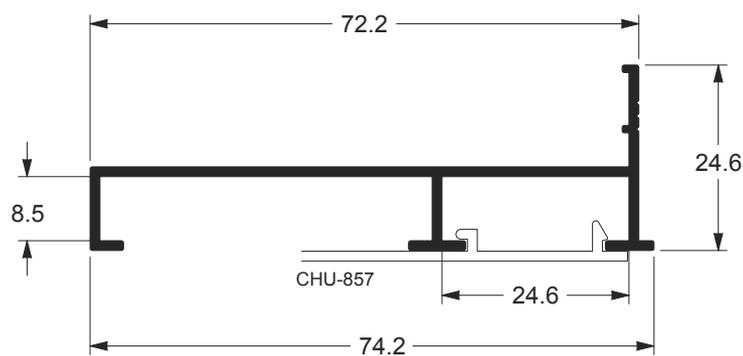
DSM-126
0,477 kg/m

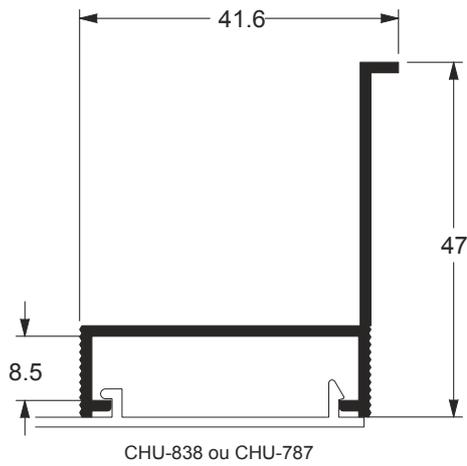


DSM-125
0,528 kg/m



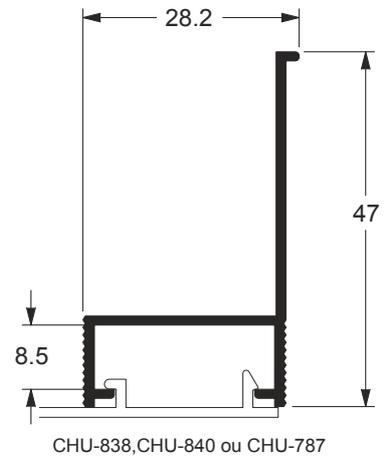
DSM-113
0,461 kg/m





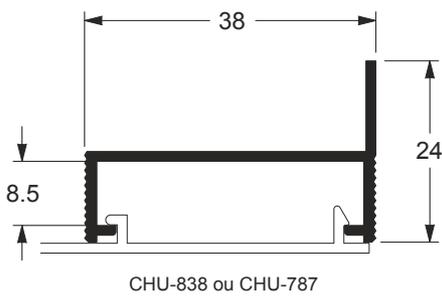
DSM-098
0,392 kg/m

CHU-838 ou CHU-787



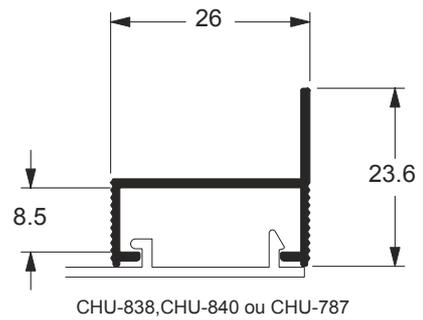
DSM-151
0,309 kg/m

CHU-838, CHU-840 ou CHU-787



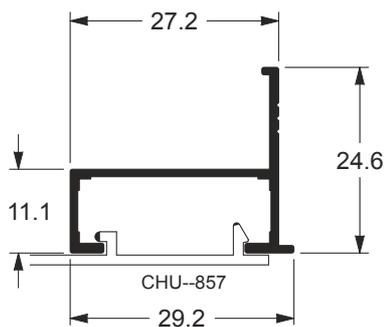
DSM-060
0,276 kg/m

CHU-838 ou CHU-787



DSM-200
0,198 kg/m

CHU-838, CHU-840 ou CHU-787

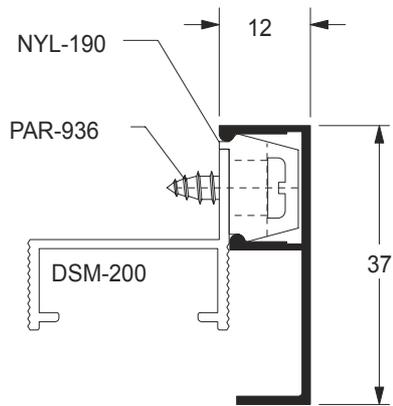


DSM-110
0,209 kg/m

CHU-857

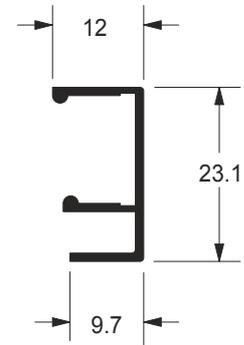
29.2

Remate / Face interna



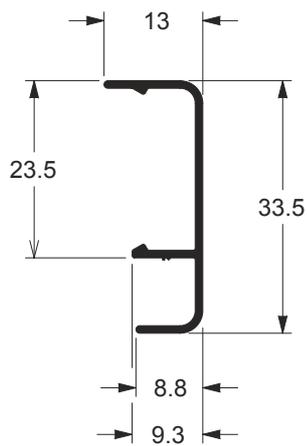
MP-347
0,202 kg/m

Remate / Centro de parede



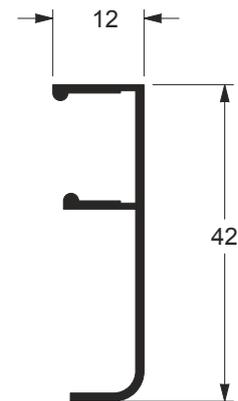
DSME-092
0,160 kg/m

Remate / Face interna



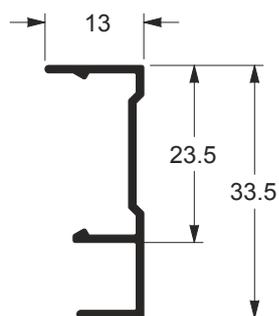
DSM-130
0,166 kg/m

Remate / Face interna



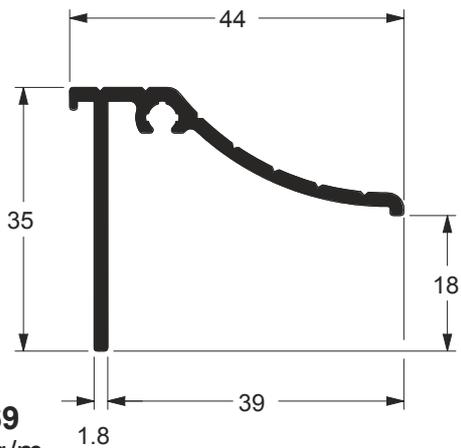
DSMN-014
0,214 kg/m

Remate / Face interna



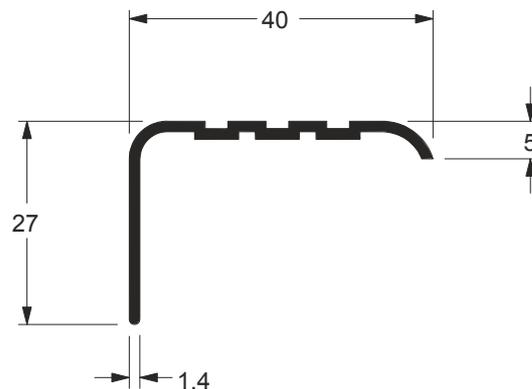
DSM-111
0,173 kg/m

Remate Piso



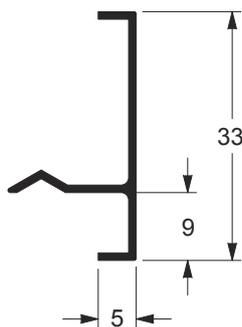
DSM-169
0,431 kg/m

Remate Piso



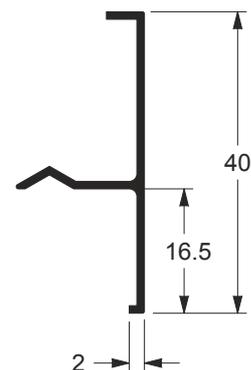
DSME-013
0,267 kg/m

Remate / Centro de parede



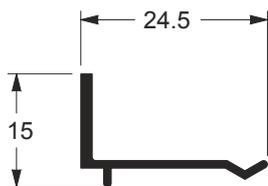
DSM-007
0,156 kg/m

Remate / Face interna



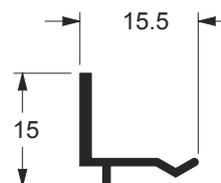
DSM-006
0,168 kg/m

Presilha



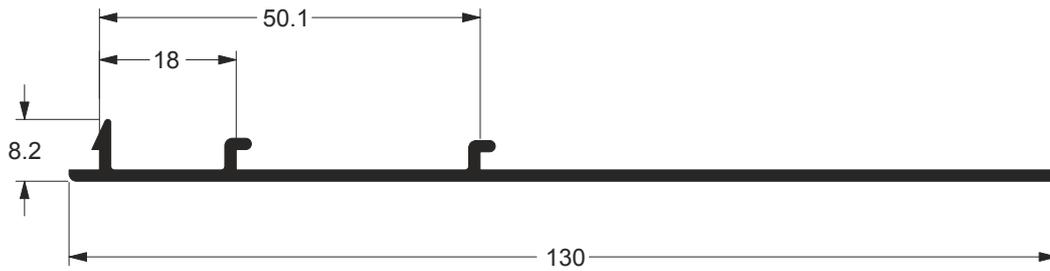
DSM-013
0,121 kg/m

Presilha



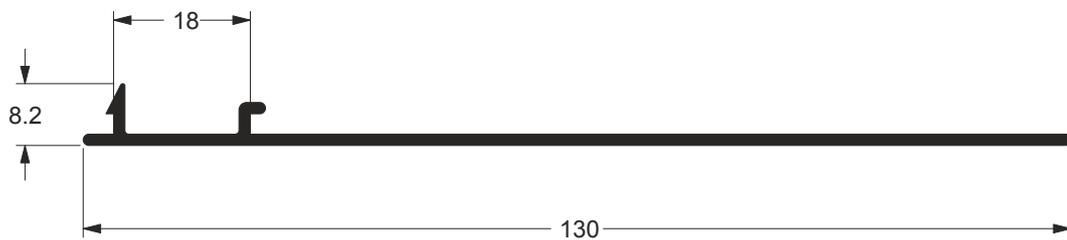
DSM-014
0,097 kg/m

Chumbador CHU-864

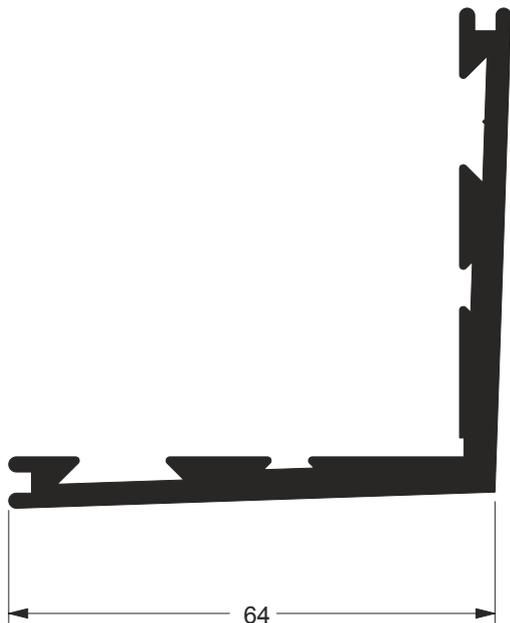


DSM-175
0,602 kg/m

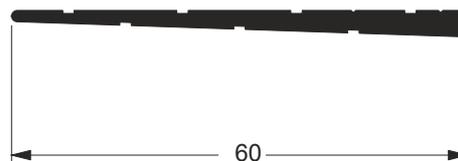
Chumbador CHU-840



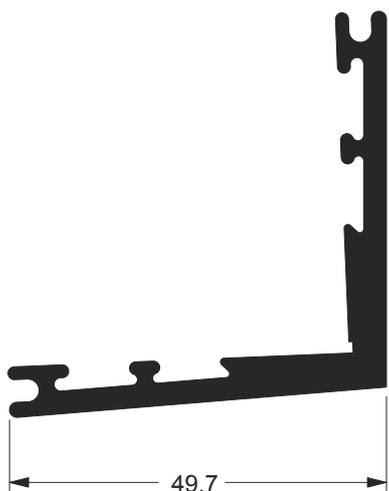
DSM-099
0,577 kg/m



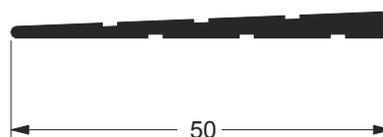
DSN-009
1,616 kg/m



DSN-010
0,385 kg/m

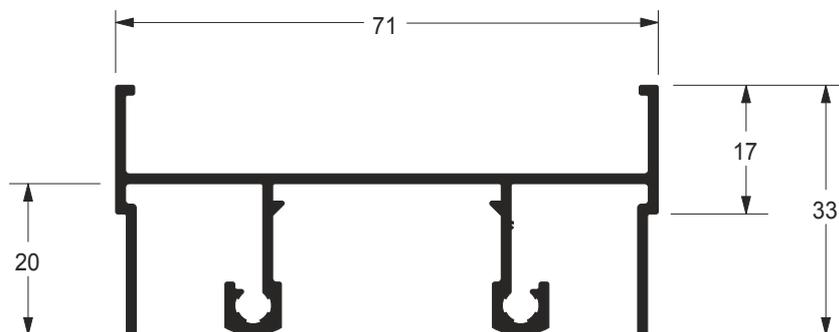


DSN-006
1,112 kg/m



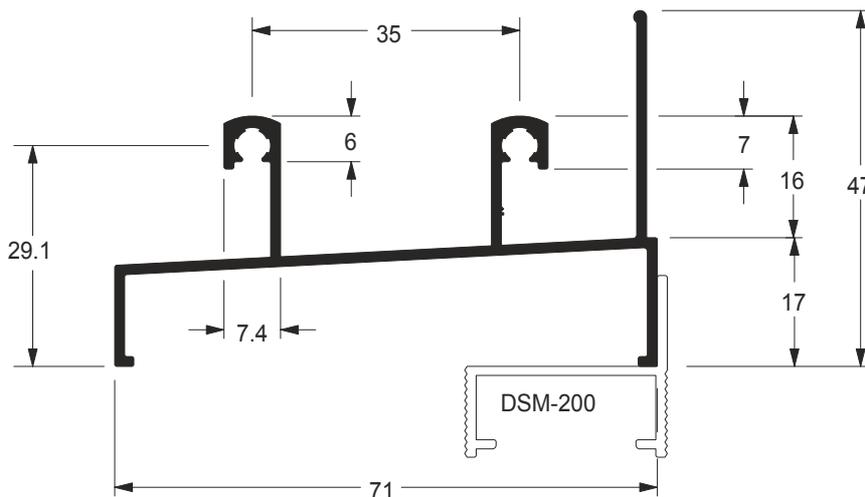
DSN-011
0,319 kg/m

Marco superior / correr 2



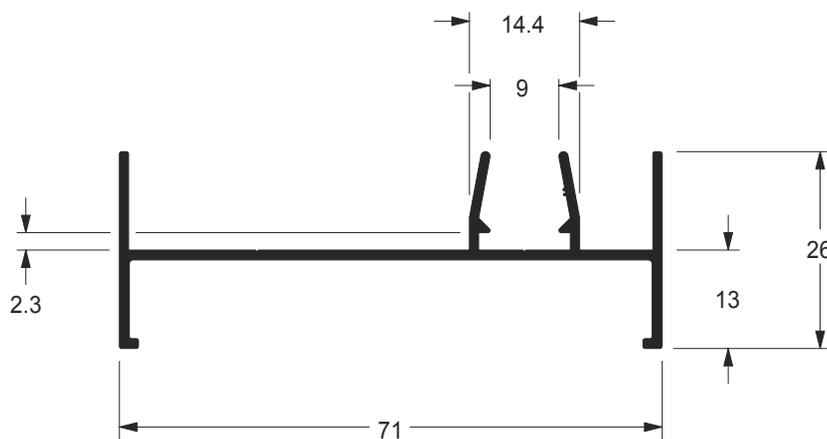
DS-001
0,762 kg/m

Marco inferior / correr 2



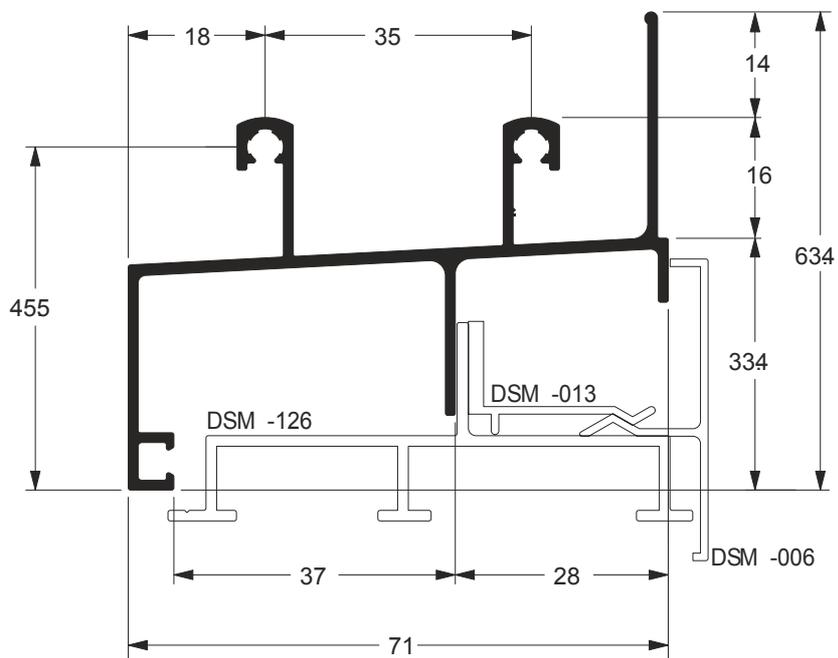
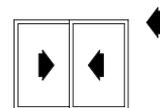
DS-002
0,707 kg/m

Marco lateral / correr 2



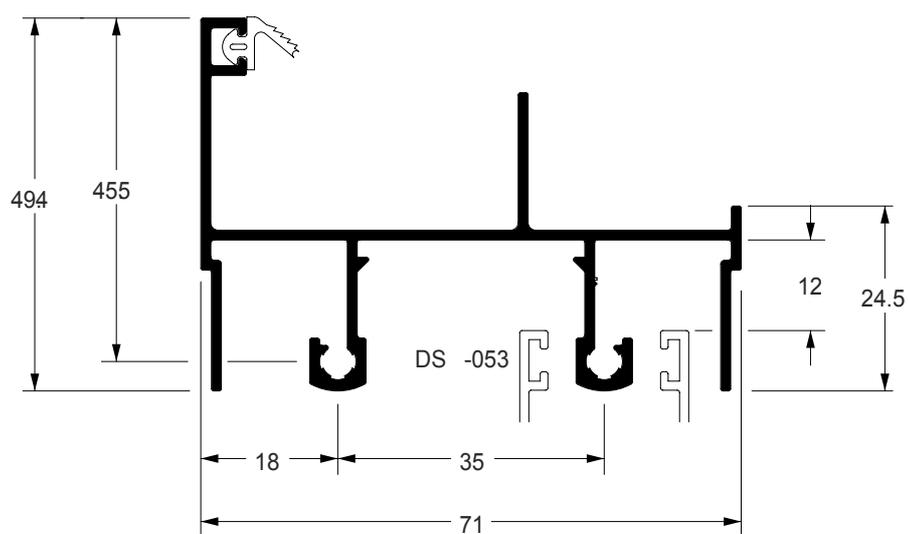
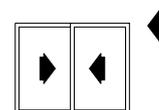
DS-003
0,523 kg/m

Marco inferior/ correr 2



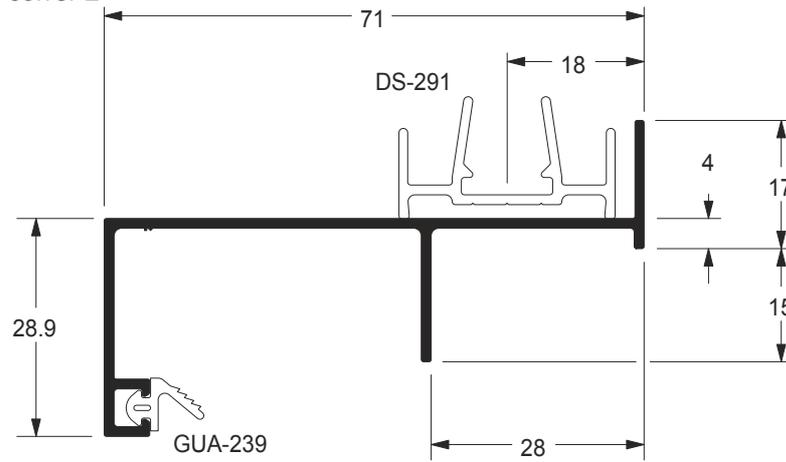
DS-251
1,002 kg/m

Marco superior / correr



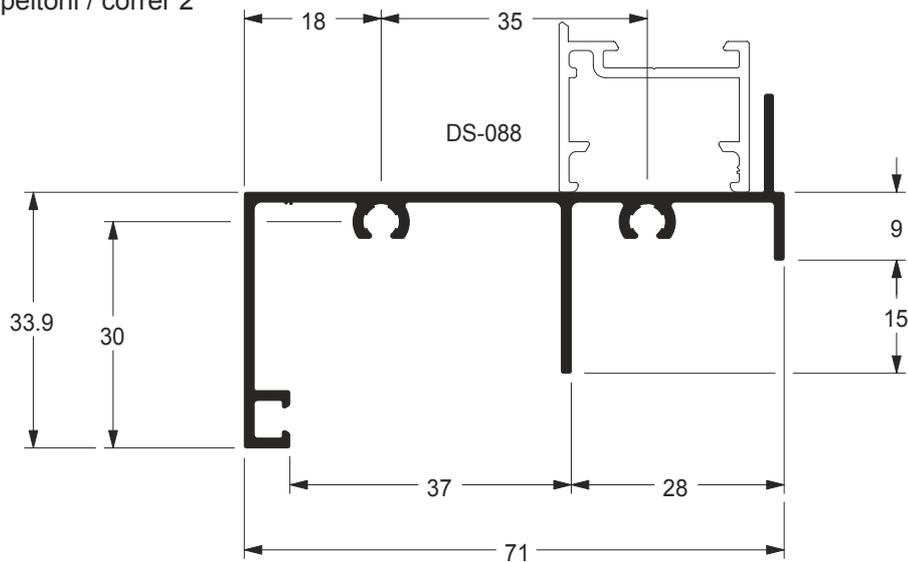
DS-026
0,878 kg/m

Marco bandeira peitoril / correr 2



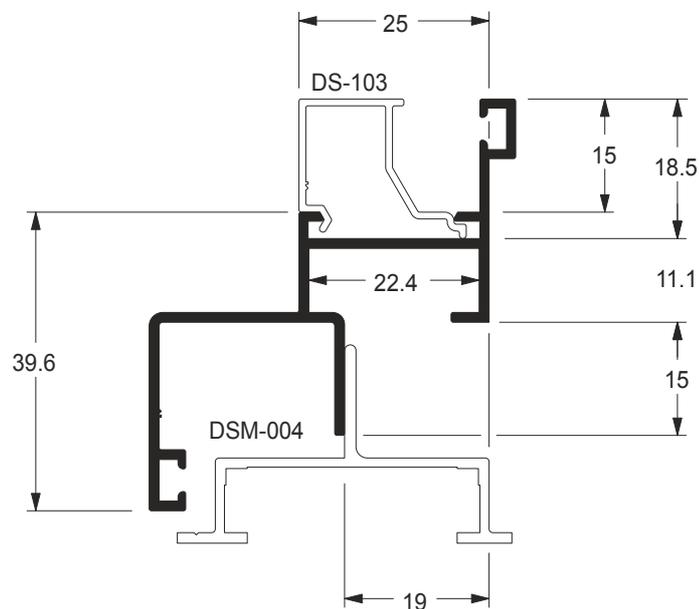
DS-028
0,501 kg/m

Marco bandeira peitoril / correr 2



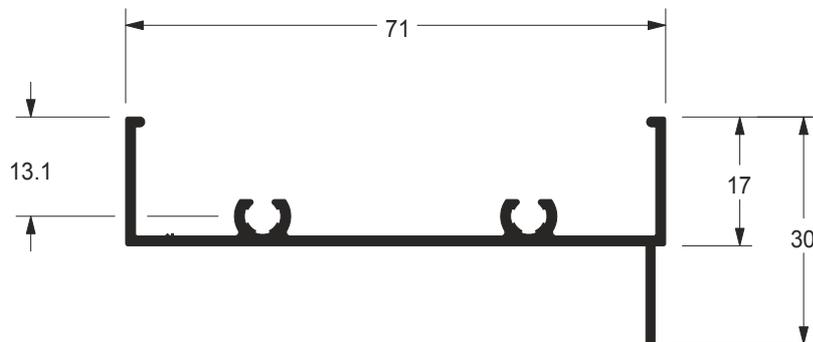
DS-029
0,646 kg/m

Marco / Maxim-ar / fixo



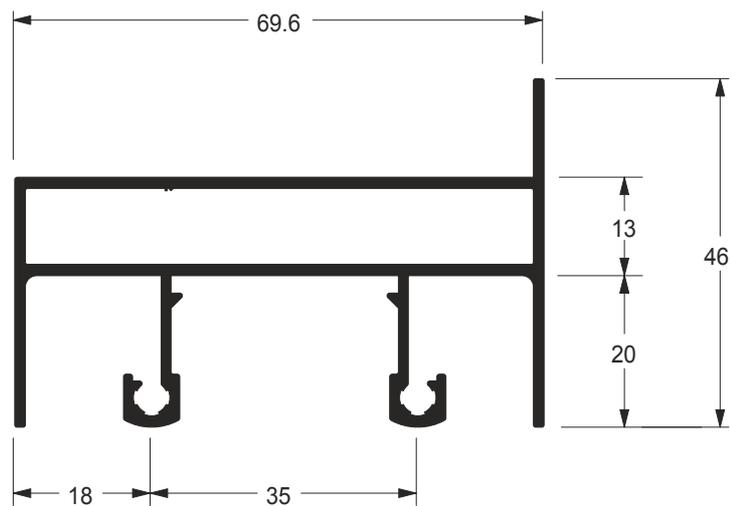
DS-030
0,542 kg/m

Marco bandeira peitoril / correr 2



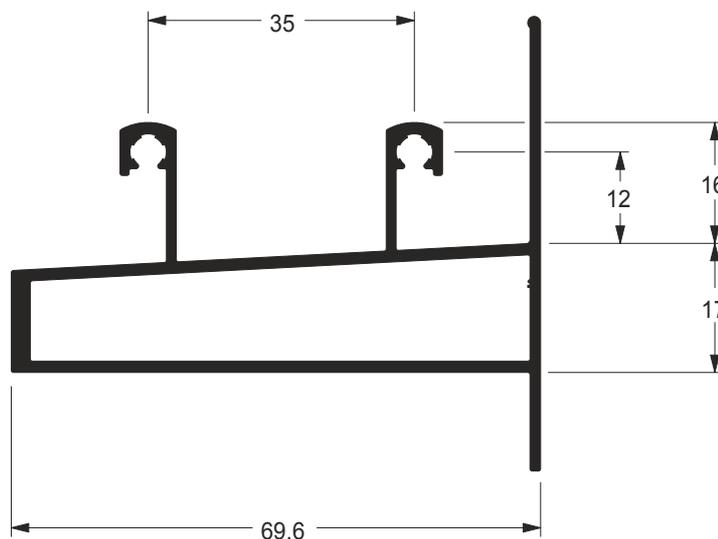
DS-004
0,504 kg/m

Travessa bandeira / marco / correr 2



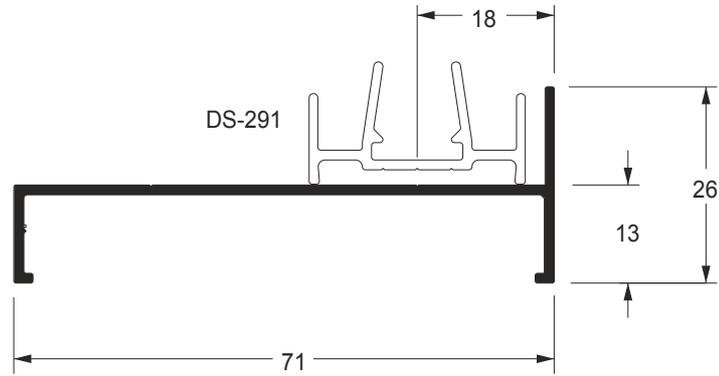
DS-005
1,108 kg/m

Travessa peitoril / marco / correr 2

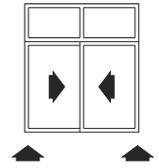


DS-006
1,086 kg/m

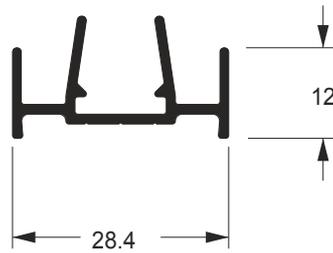
Marco lateral / correr 2



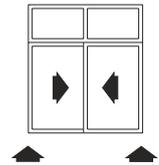
DS-007
0,382 kg/m



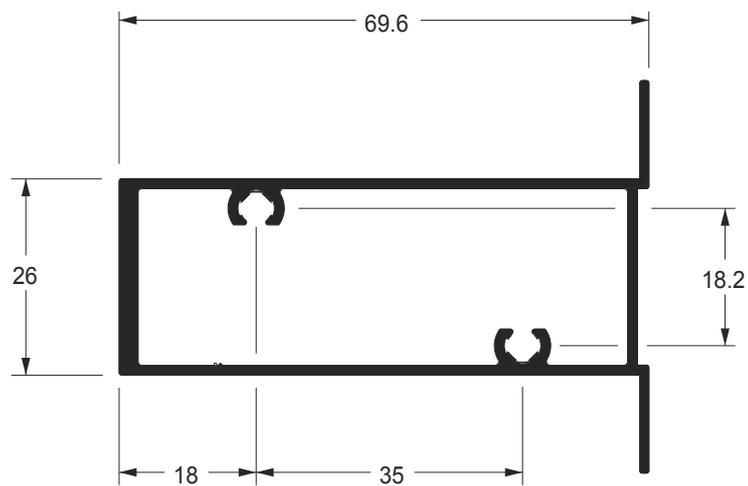
Complemento / marco lateral / correr



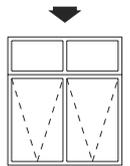
DS-291
0,263 kg/m



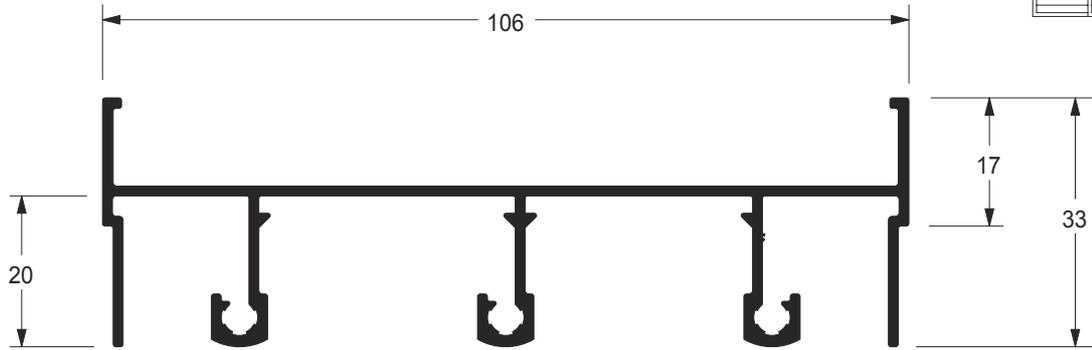
Coluna



DS-009
0,908 kg/m

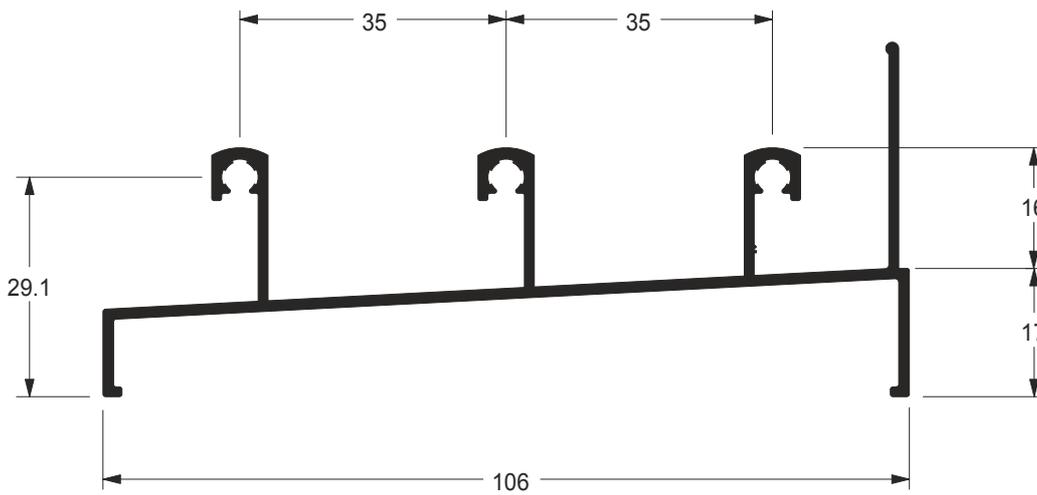


Marco superior / correr 3



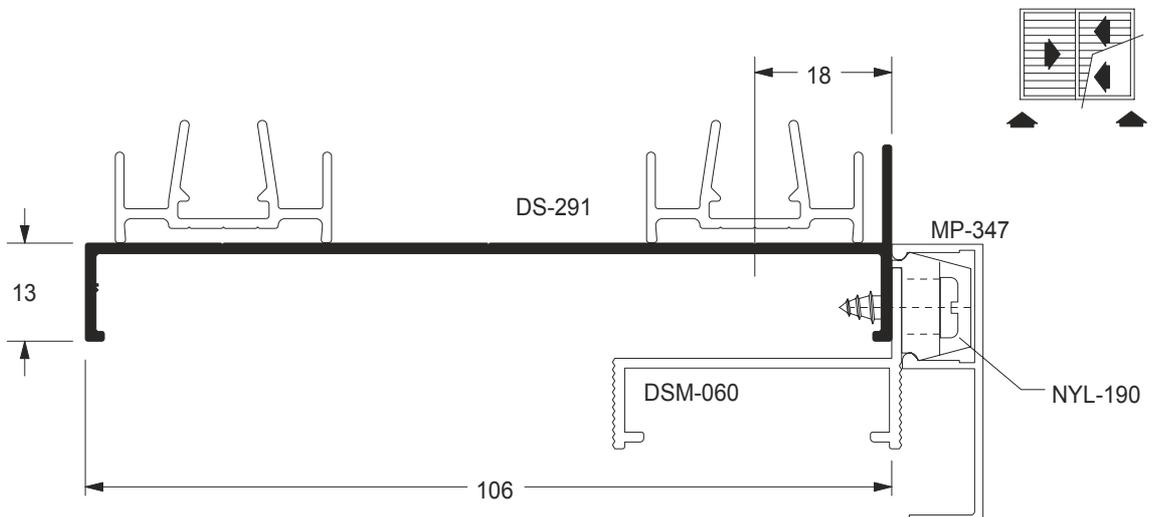
DS-010
1,022 kg/m

Marco inferior / correr 3



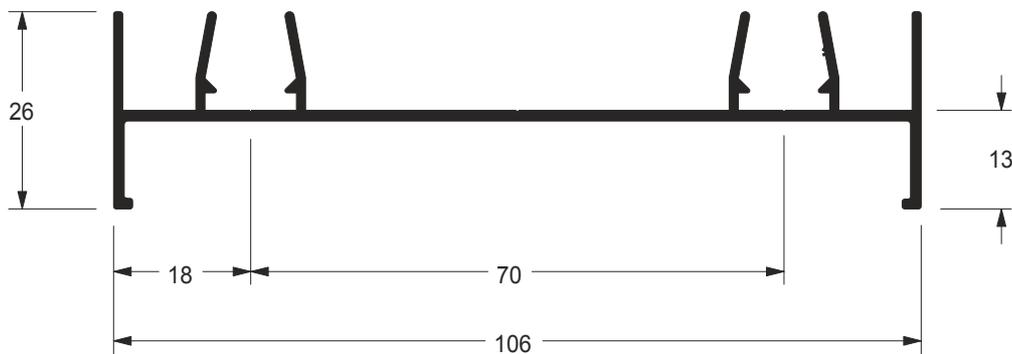
DS-011
0,981 kg/m

Marco lateral / correr 3



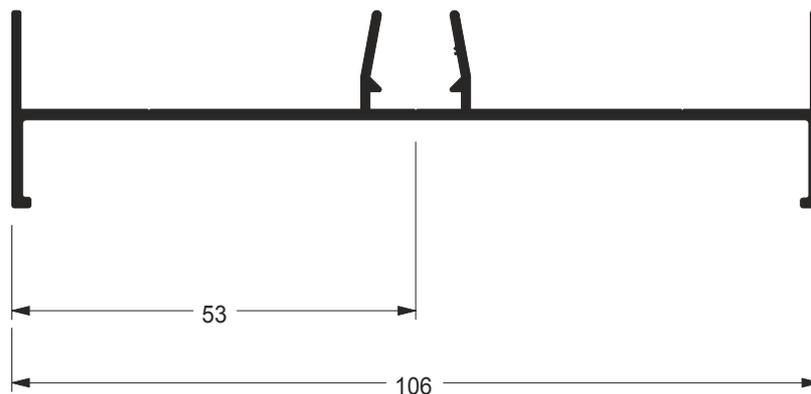
DS-012
0,539 kg/m

Marco lateral / correr 3



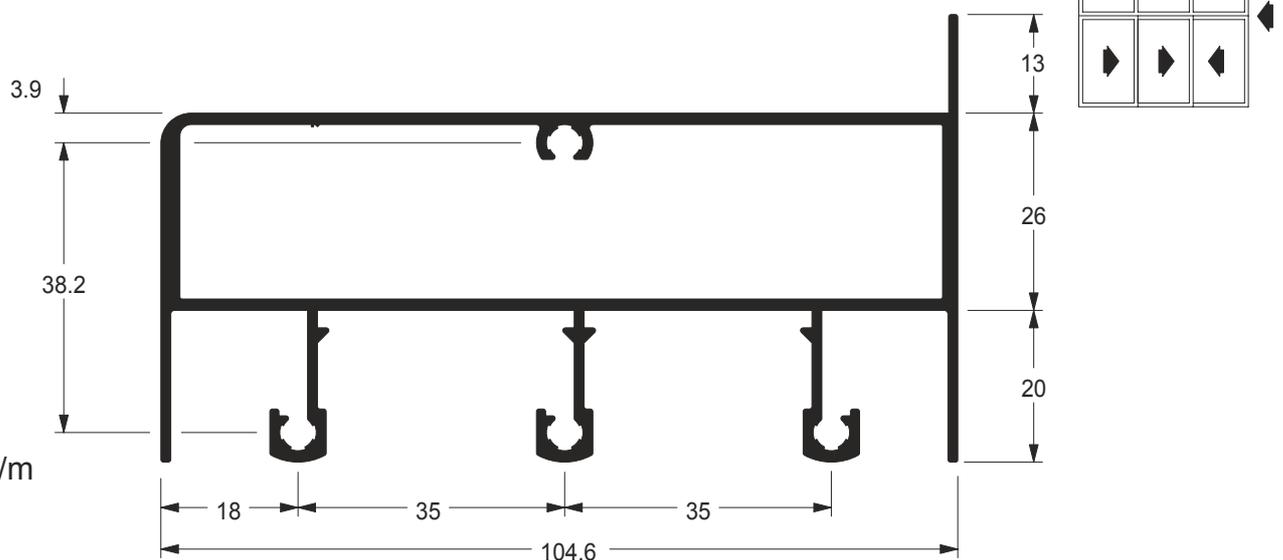
DS-013
0,772 kg/m

Marco lateral / correr 3



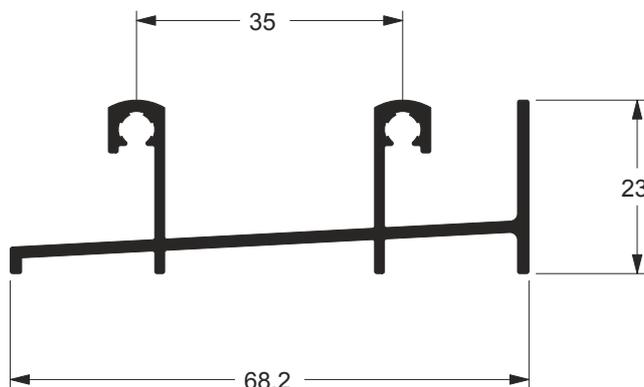
DS-014
0,677 kg/m

Travessa bandeira / marco / correr 3

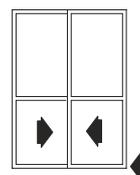


DS-019
1,770 kg/m

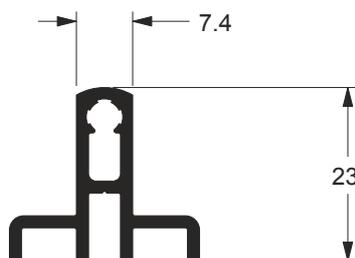
Marco inferior / correr 2



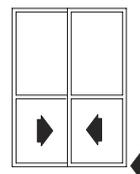
DS-260
0,631 kg/m



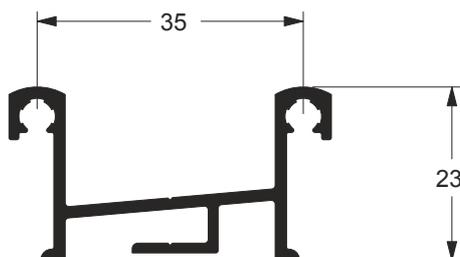
Trilho porta



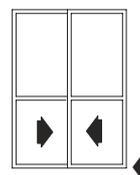
DS-271
0,348 kg/m



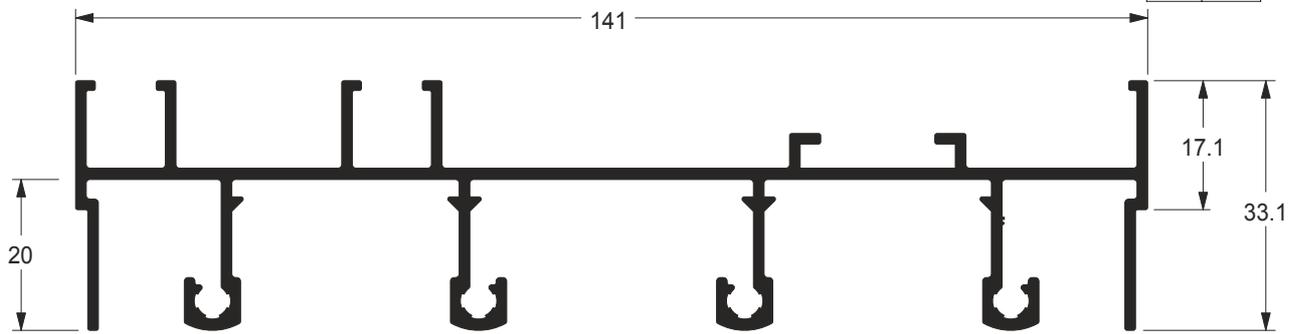
Trilho porta / correr 2



DS-272
0,468 kg/m

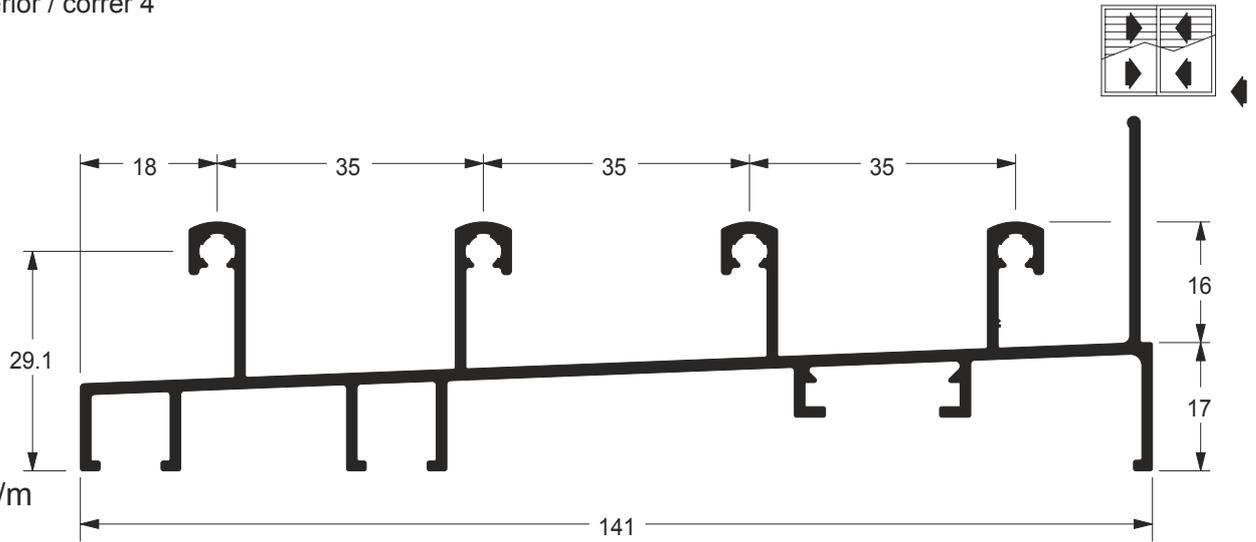


Marco superior / correr 4



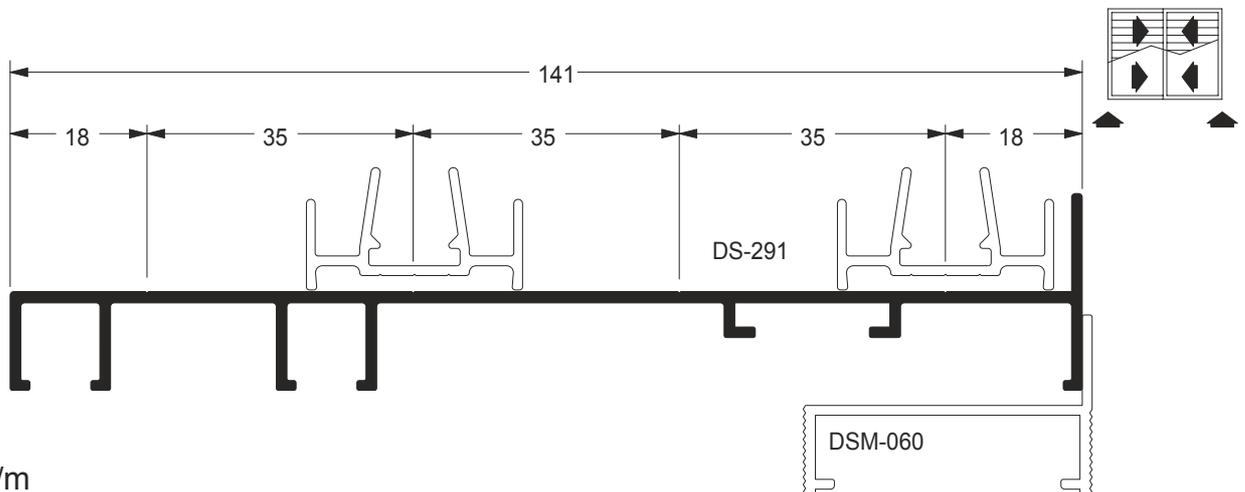
DS-121
1,586 kg/m

Marco inferior / correr 4



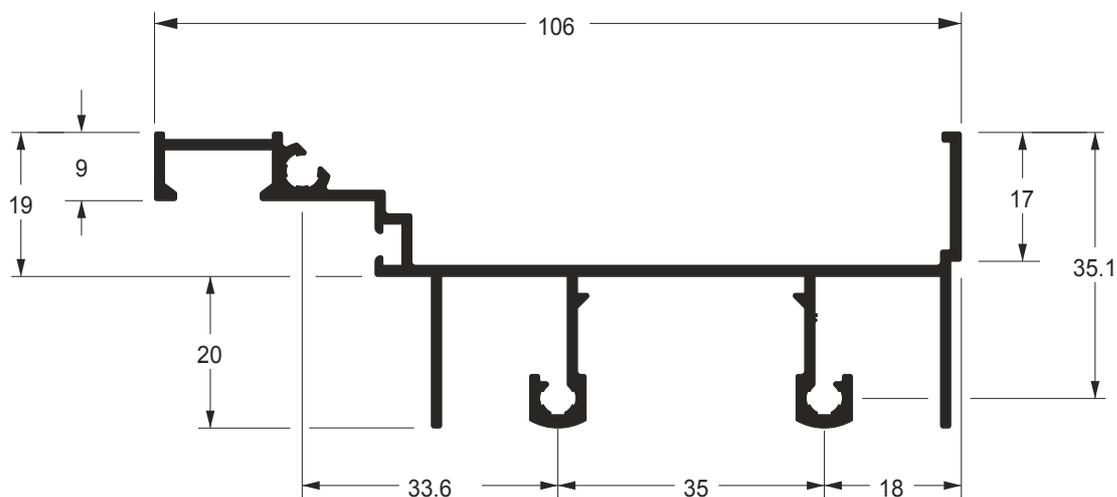
DS-122
1,512 kg/m

Marco lateral / correr 4



DS-123
0,919 kg/m

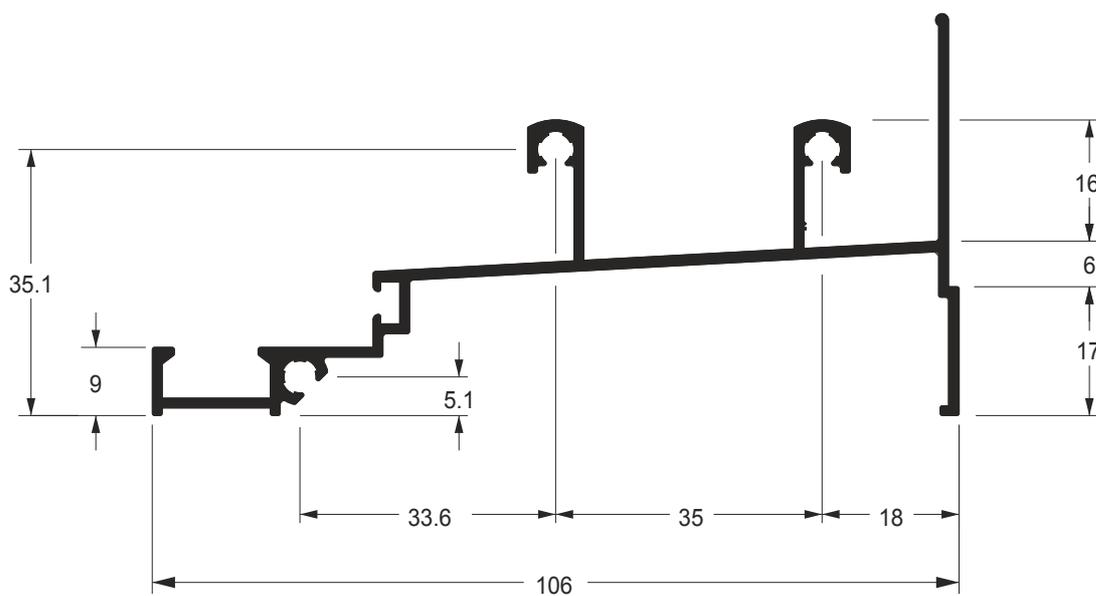
Marco superior / correr / veneziana camarão



DS-024

1,024 kg/m

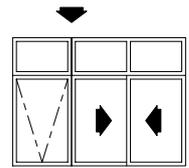
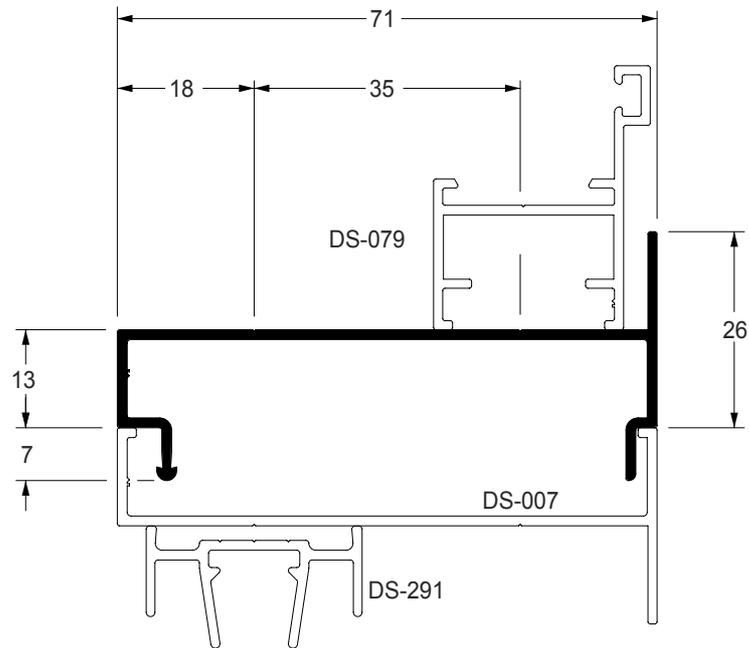
Marco inferior / correr / veneziana camarão



DS-025

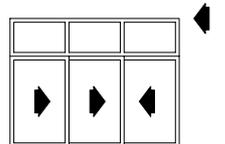
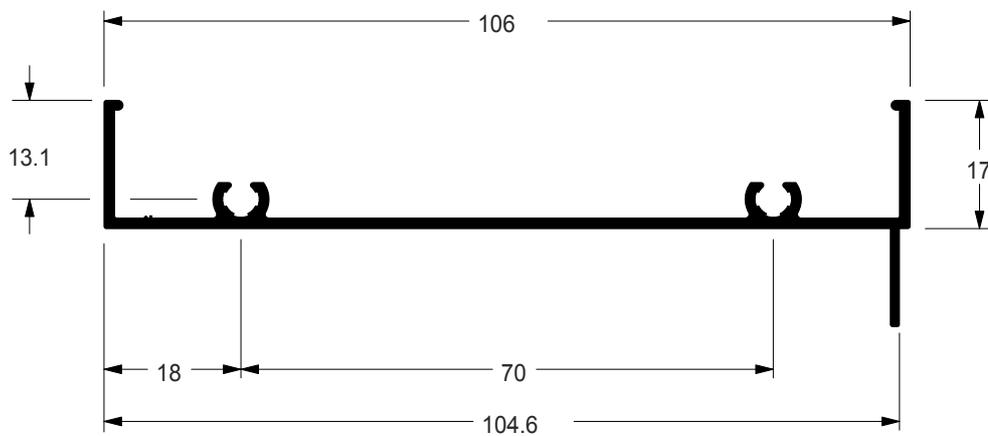
0,973 kg/m

Componente / coluna / correr 2



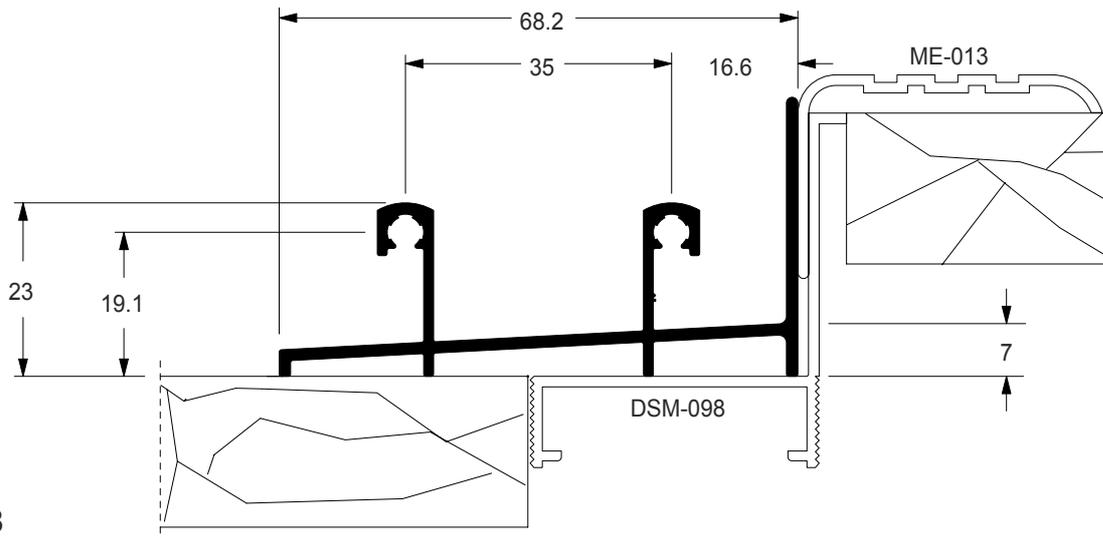
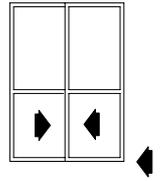
DS-036
0,455 kg/m

Travessa superior bandeira / correr 3



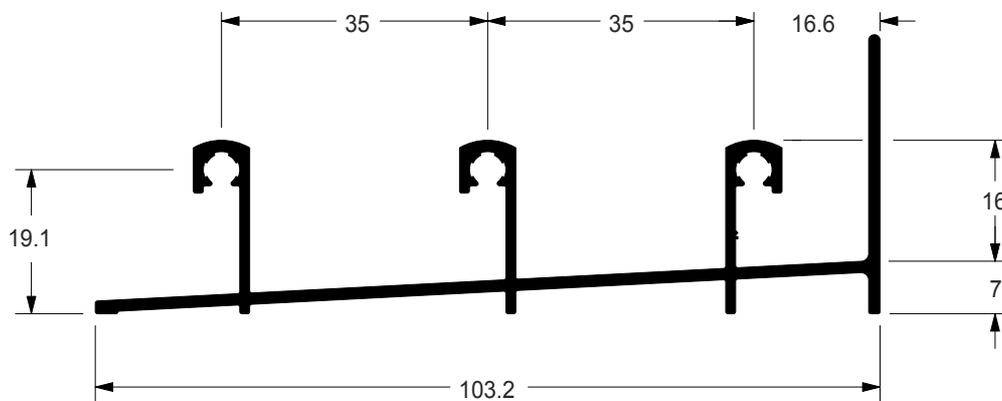
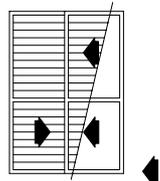
DS-018
0,659 kg/m

Marco inferior / correr 2



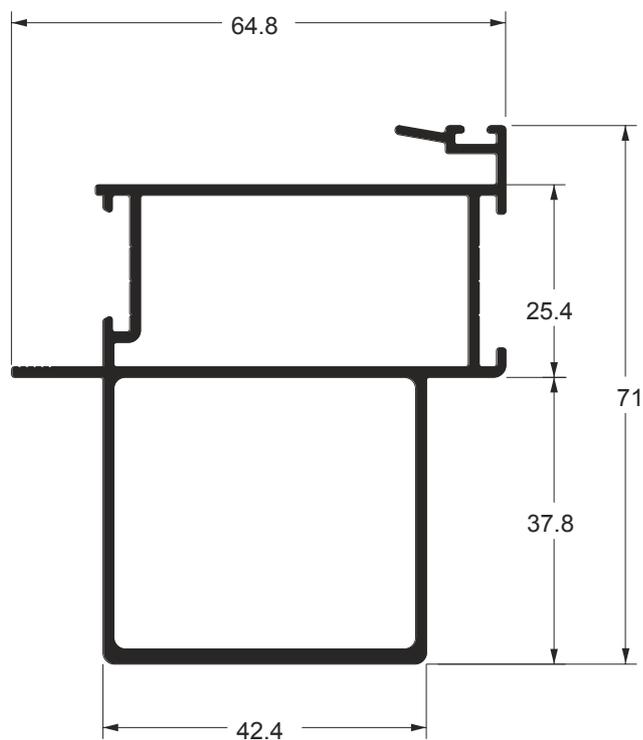
DS-228
0,688 kg/m

Marco inferior / correr 3



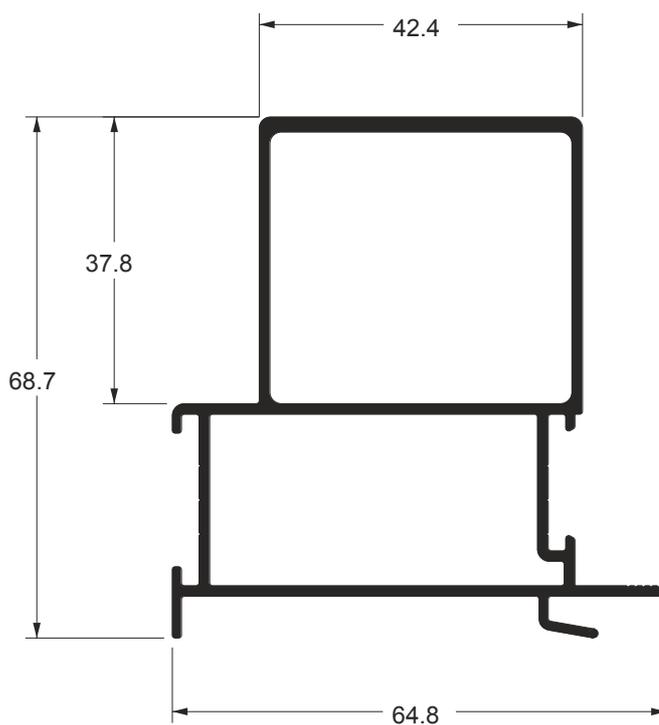
DS-230
0,954 kg/m

Montante mão de amigo



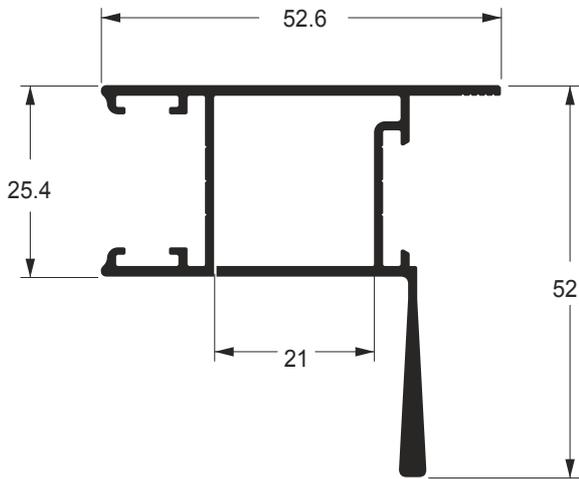
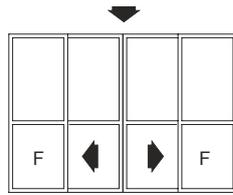
DS-290
1,247 kg/m

Montante mão de amigo



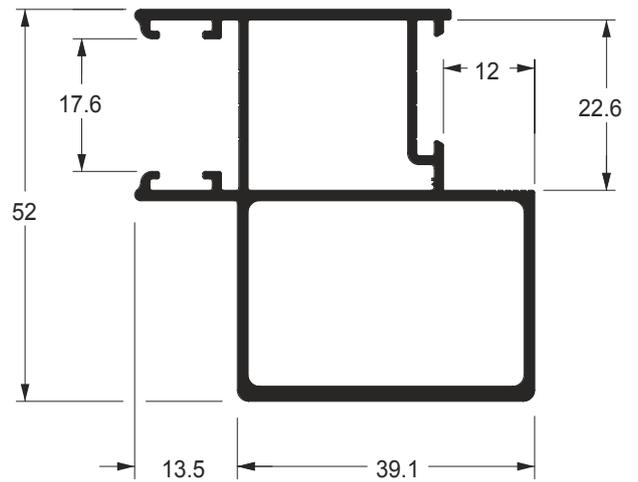
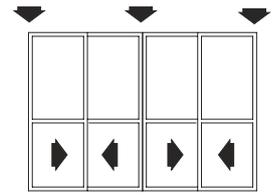
DS-289
1,217 kg/m

Montante central folha / correr



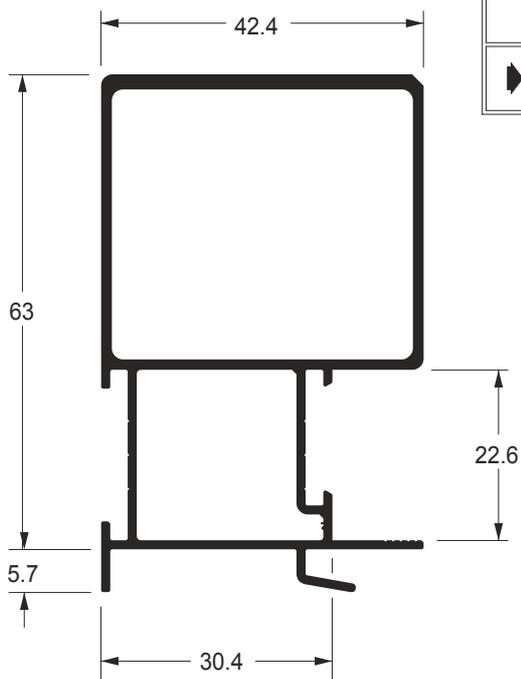
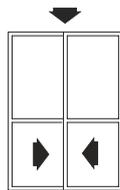
DS-250
0,736 kg/m

Montante / folha / correr



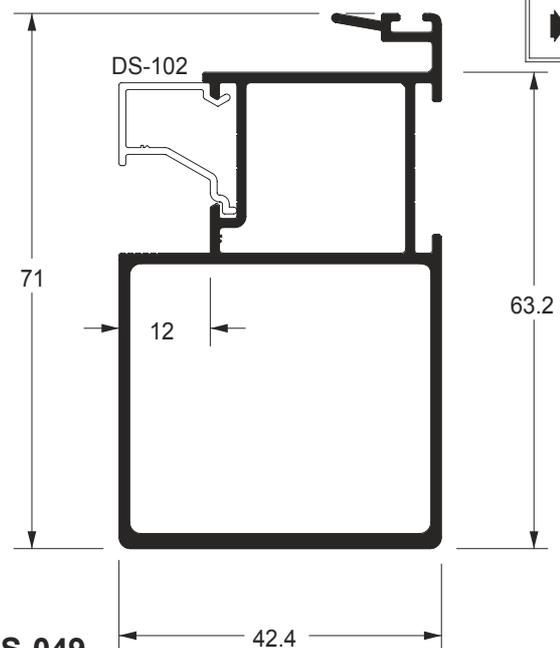
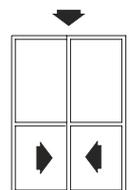
DS-044
0,970 kg/m

Montante mão de amigo



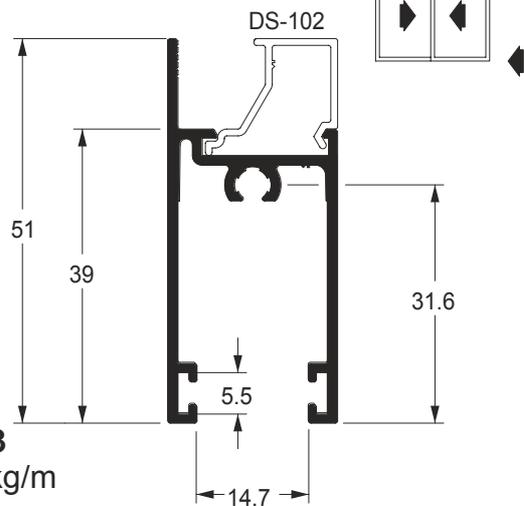
DS-047
1,041 kg/m

Montante mão de amigo



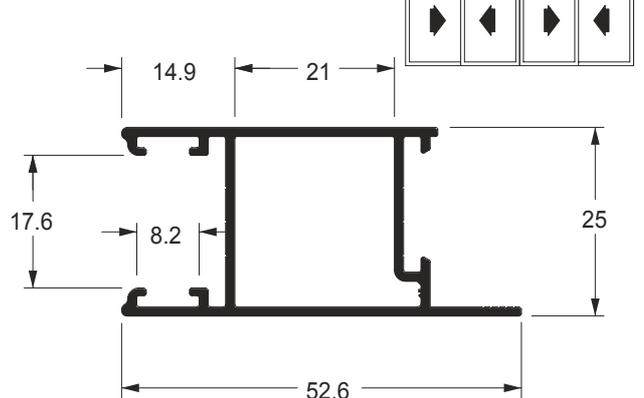
DS-049
1,052 kg/m

Travessa da folha



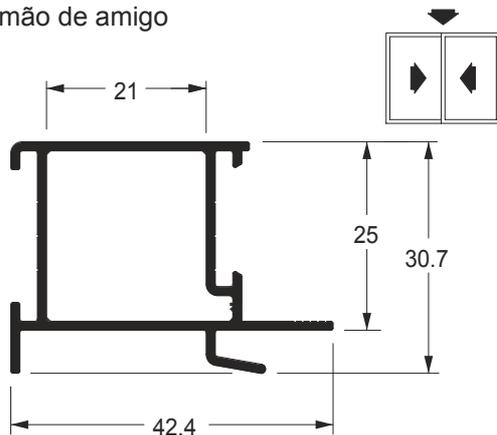
DS-053
0,507 kg/m

Montante da folha



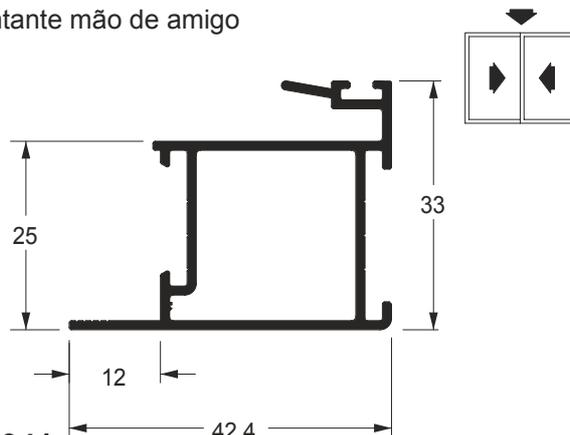
DS-039
0,520 kg/m

Montante mão de amigo



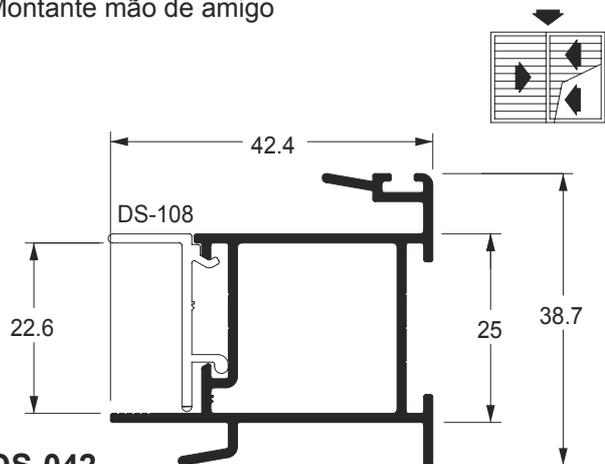
DS-040
0,480 kg/m

Montante mão de amigo



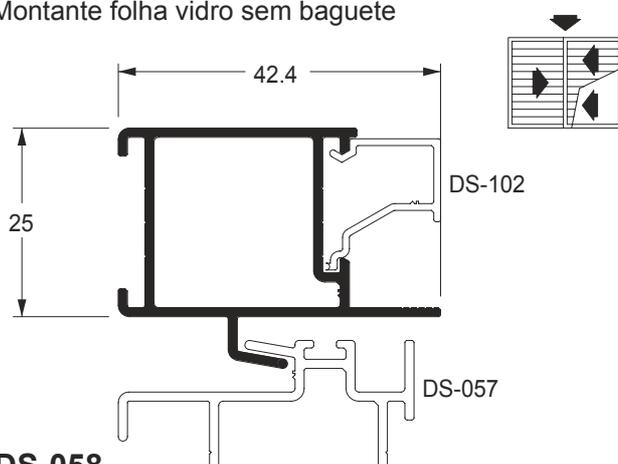
DS-041
0,507 kg/m

Montante mão de amigo



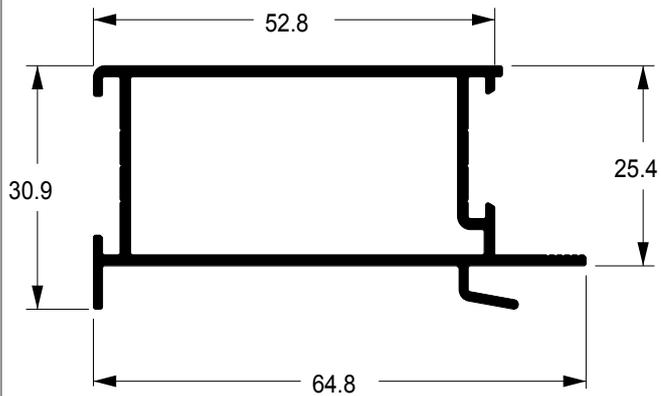
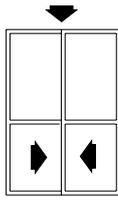
DS-042
0,564 kg/m

Montante folha vidro sem baguete



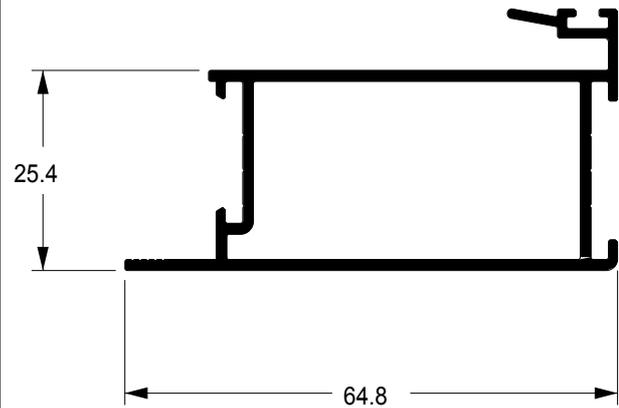
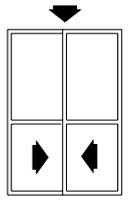
DS-058
0,463 kg/m

Montante mão de amigo



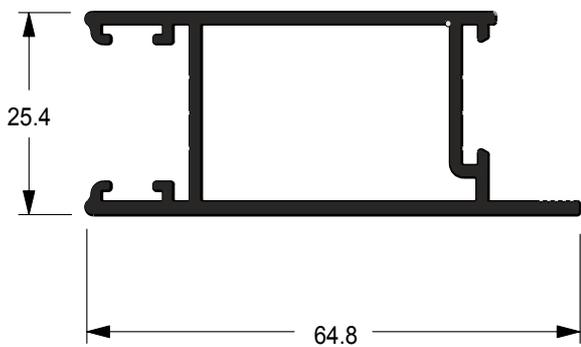
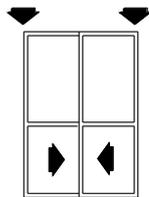
DS-243
0,712 kg/m

Montante mão de amigo



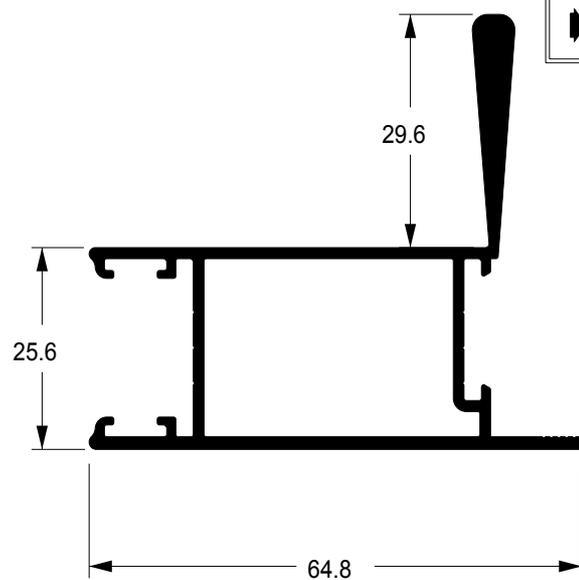
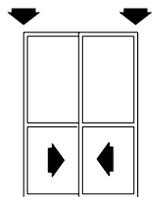
DS-242
0,743 kg/m

Montante lateral da folha reforçada



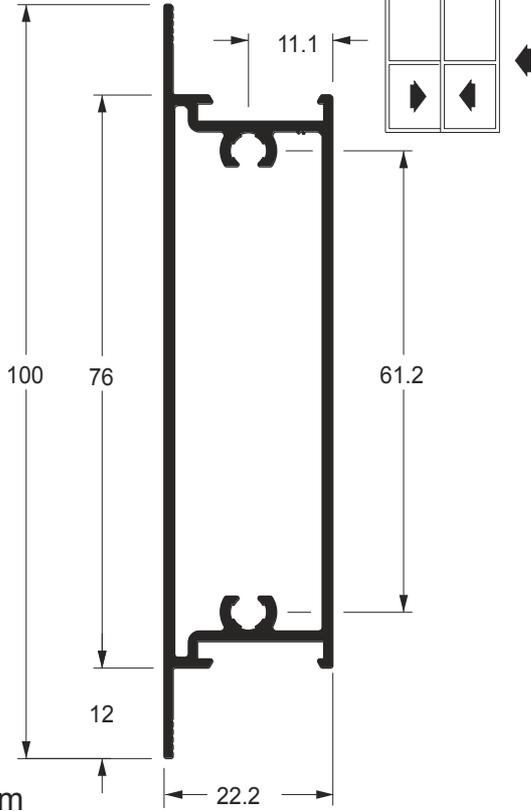
DS-245
0.688 kg/m

Montante lateral da folha reforçada

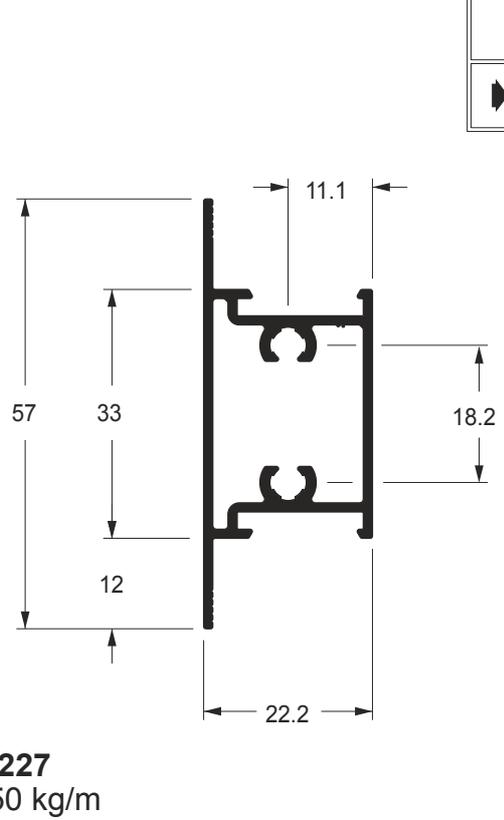


DS-280
1,006 kg/m

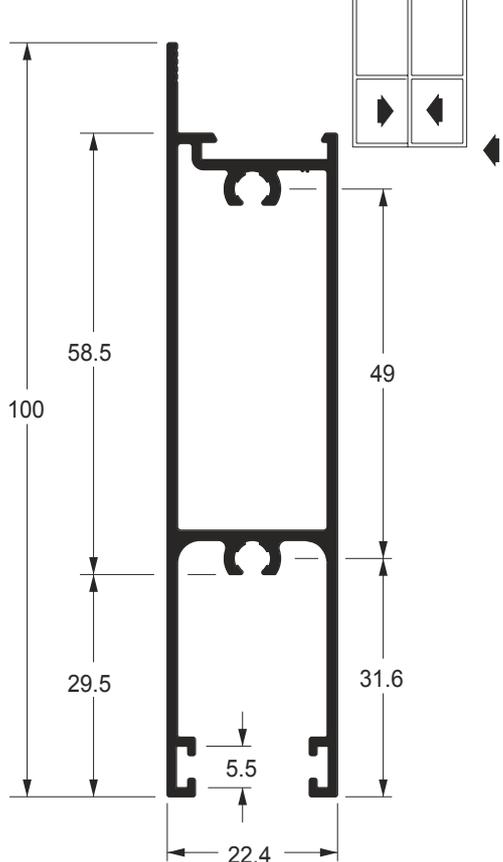
Travessa central da folha



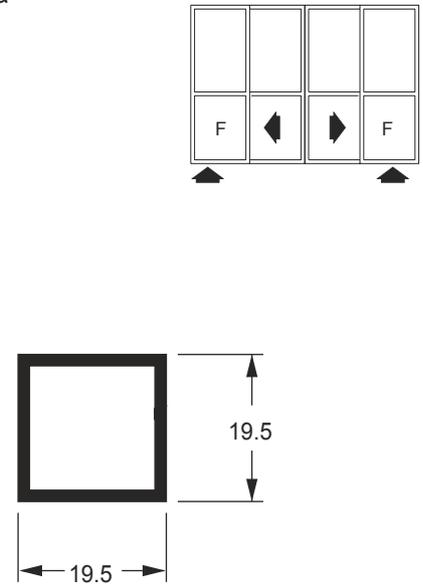
Travessa central da folha



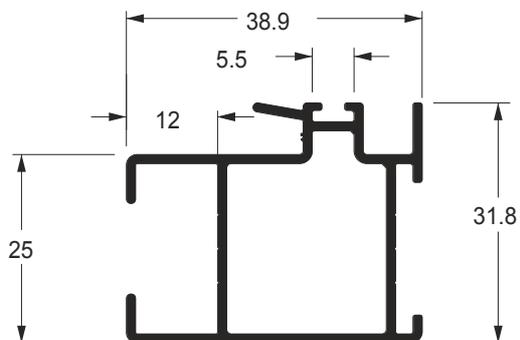
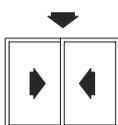
Travessa inferior da folha



Calço para folha fixa

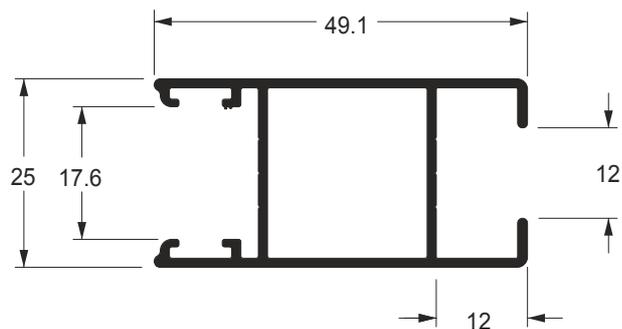
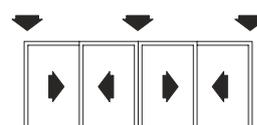


Montante mão de amigo



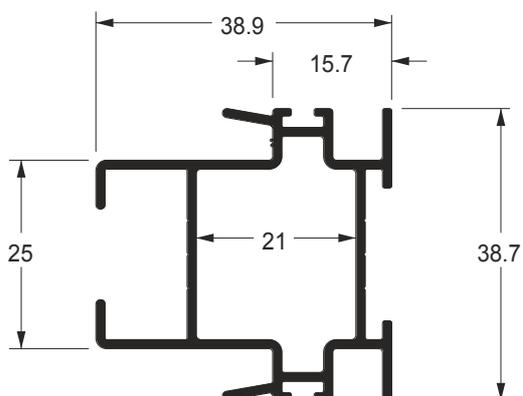
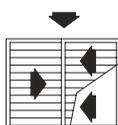
DS-056
0,539 kg/m

Montante



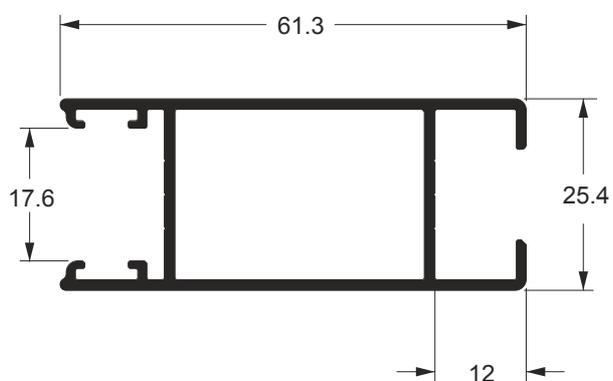
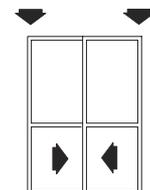
DS-055
0,545 kg/m

Montante mão de amigo



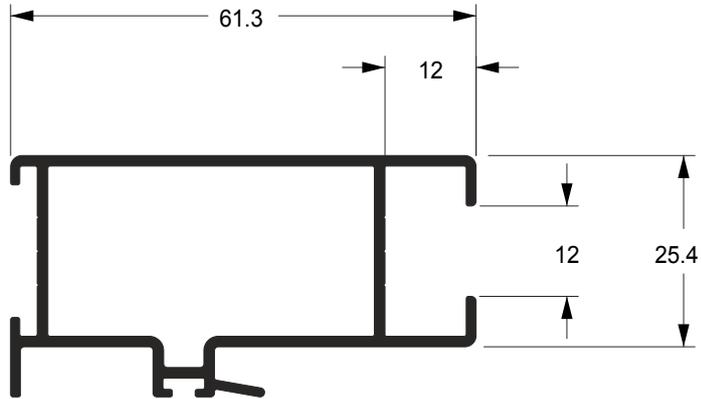
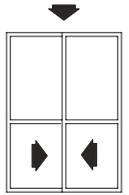
DS-057
0,631 kg/m

Montante



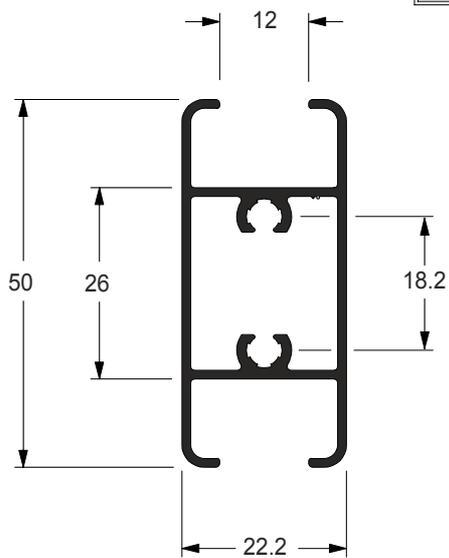
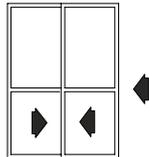
DS-238
0,714 kg/m

Montante mão de amigo



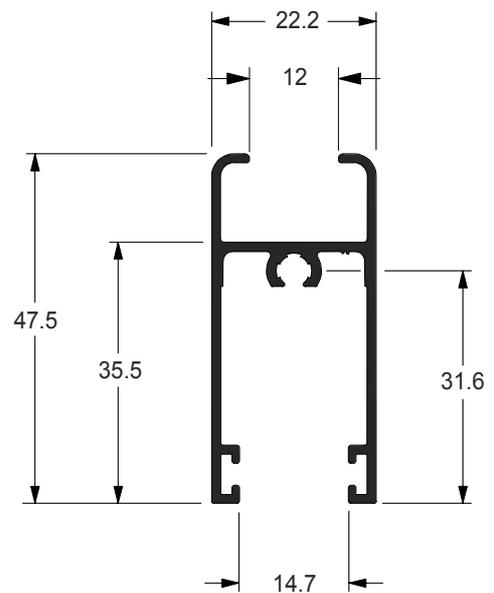
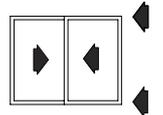
DS-239
0,783 kg/m

Travessa central da folha



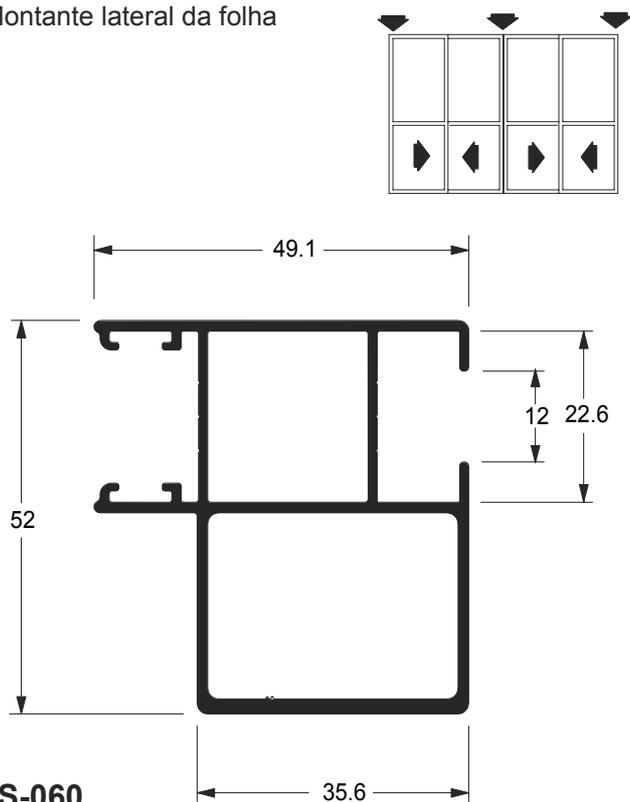
DS-188
0,586 kg/m

Travessa da folha



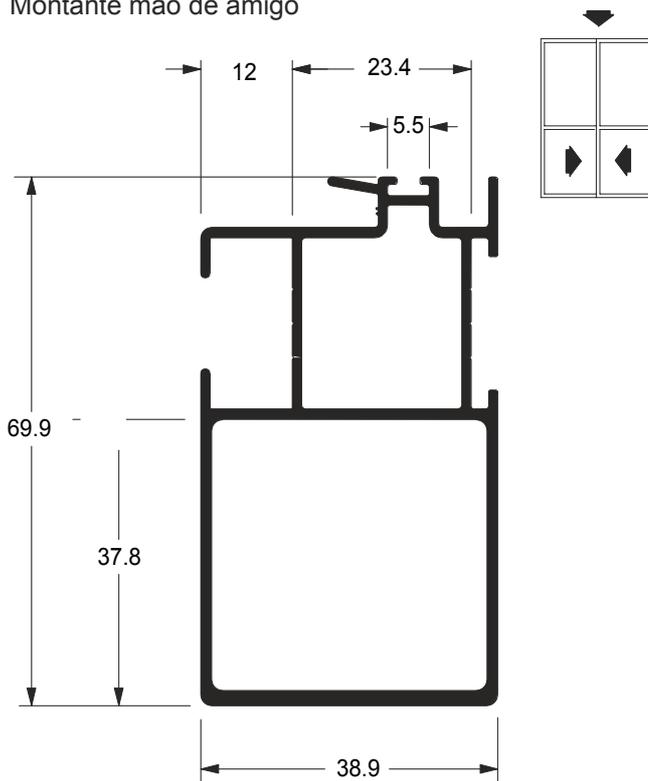
DS-186
0,507 kg/m

Montante lateral da folha



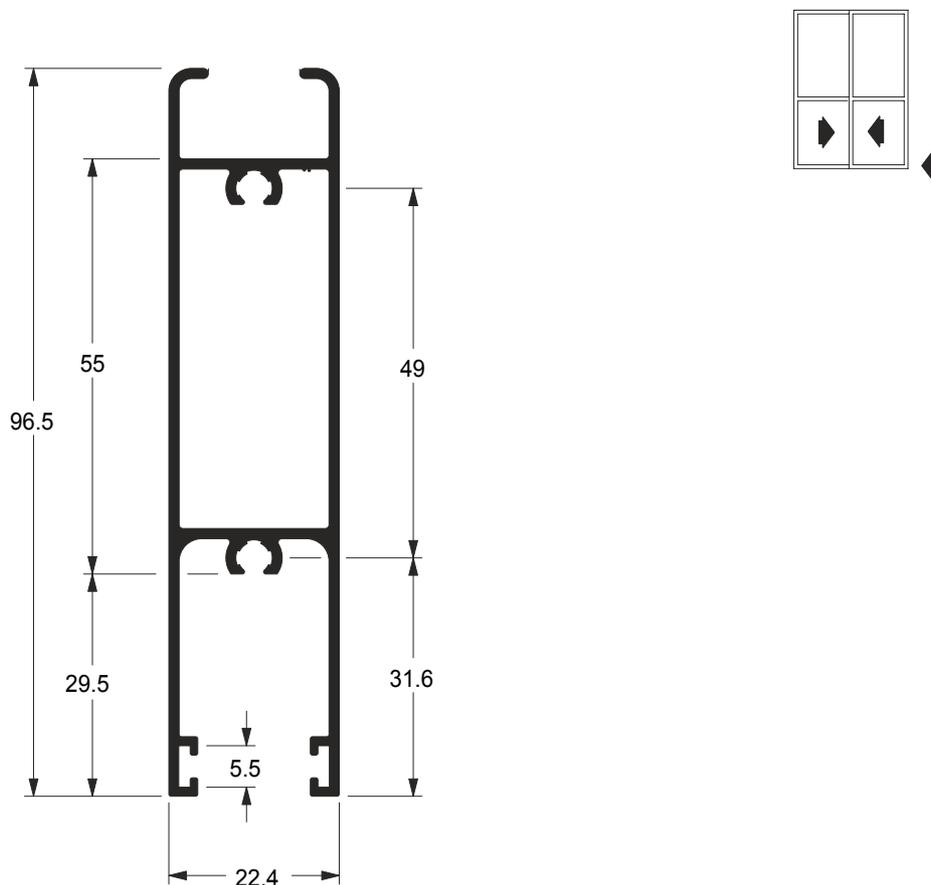
DS-060
0,978 kg/m

Montante mão de amigo



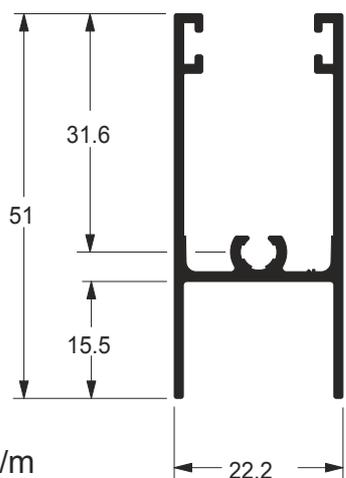
DS-061
1,062 kg/m

Travessa inferior da folha



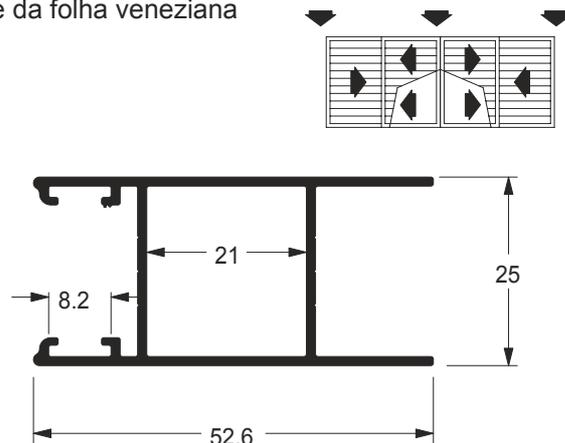
DS-226
1,014 kg/m

Travessa da folha veneziana



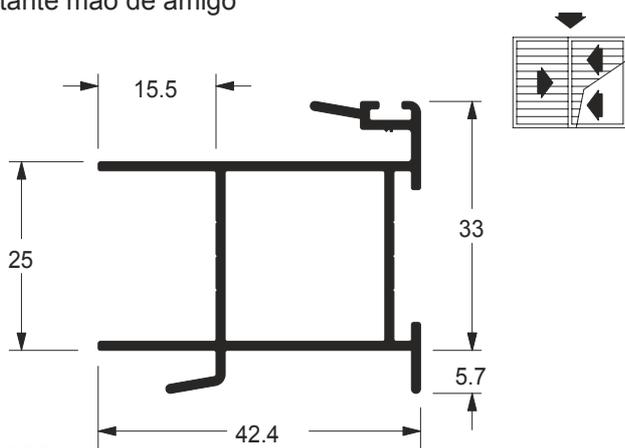
DS-187
0,512 kg/m

Montante da folha veneziana



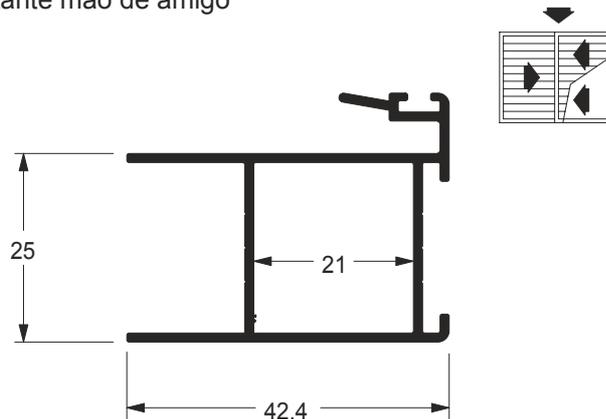
DS-068
0,534 kg/m

Montante mão de amigo



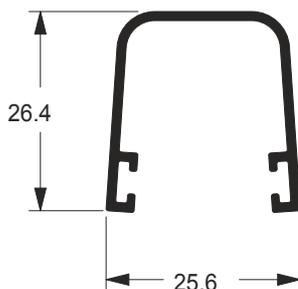
DS-069
0,575 kg/m

Montante mão de amigo



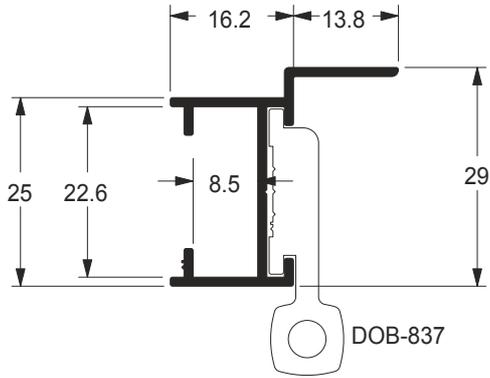
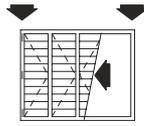
DS-070
0,520 kg/m

Vedação do montante



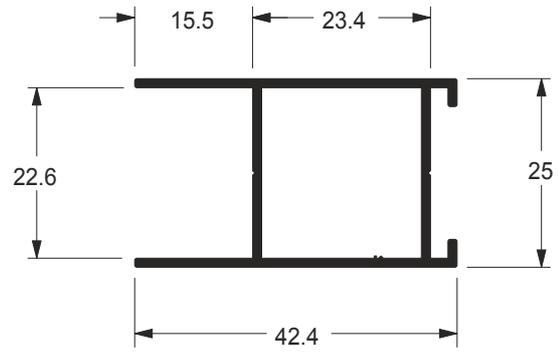
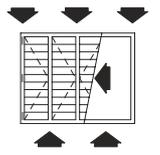
DS-107
0,265 kg/m

Complemento marco



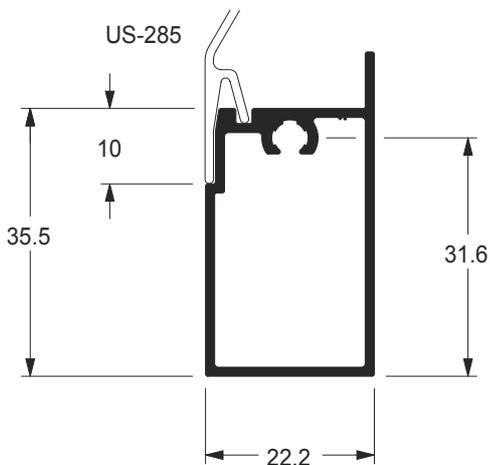
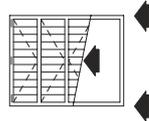
DS-071
0,276 kg/m

Montante / folha veneziana



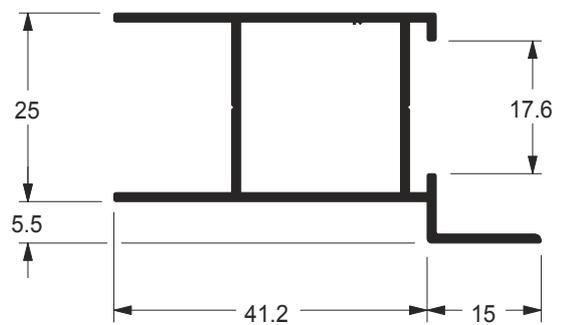
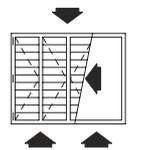
DS-072
0,439 kg/m

Travessa / folha veneziana

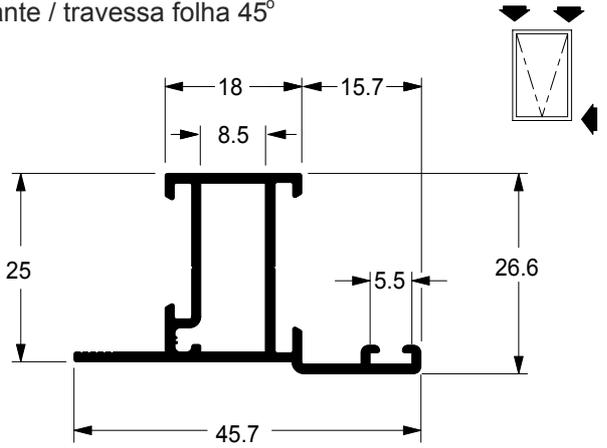
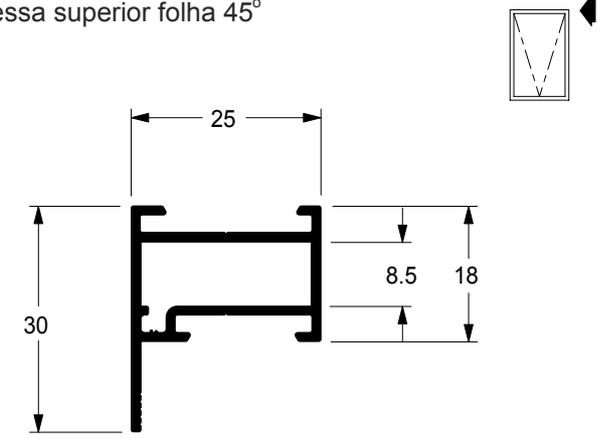
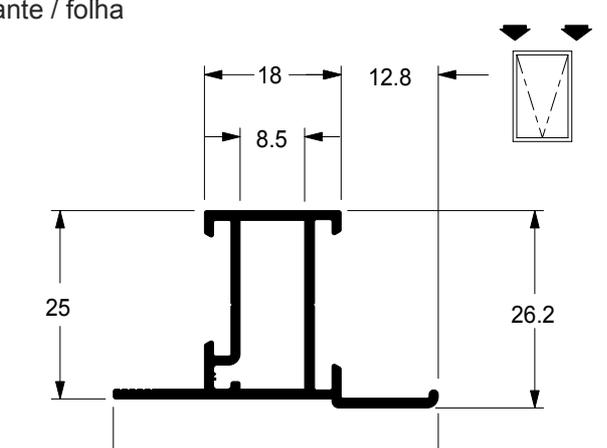
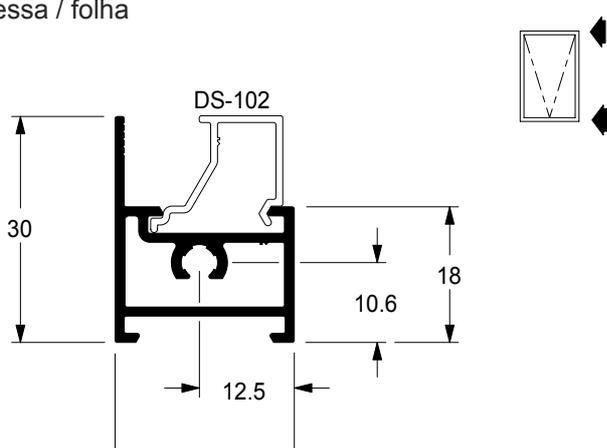
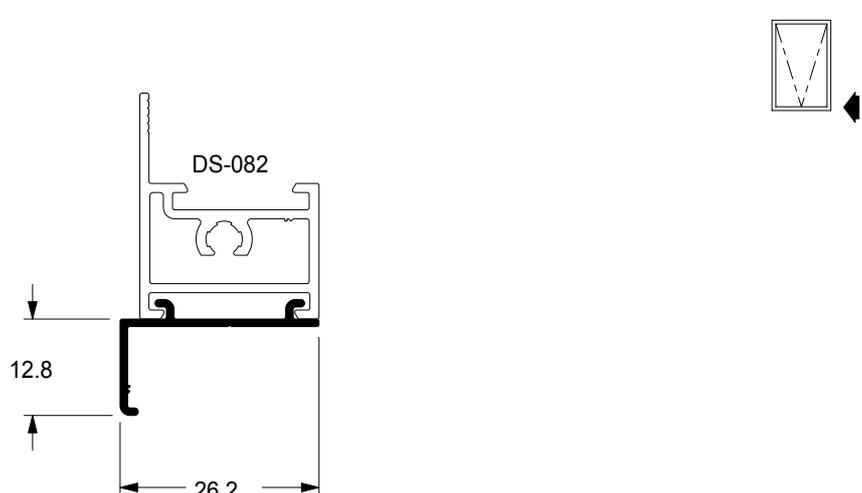


DS-073
0,447 kg/m

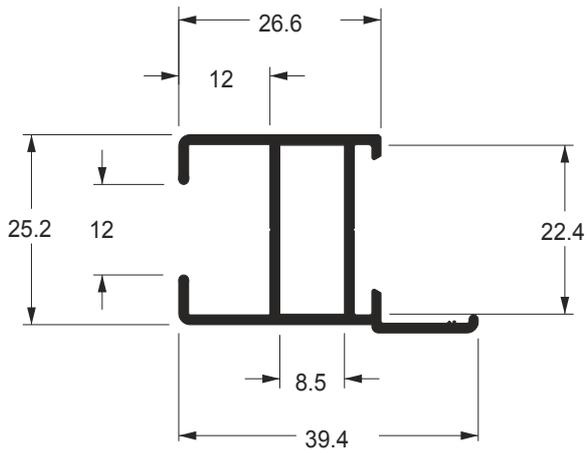
Montante / folha veneziana



DS-074
0,501 kg/m

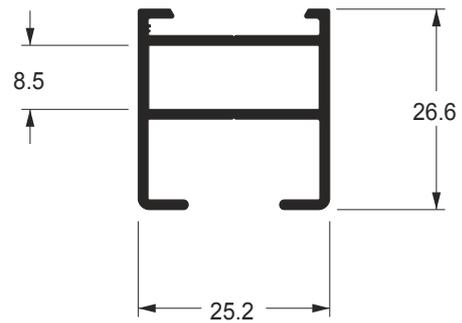
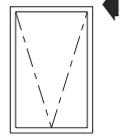
<p>Montante / travessa folha 45°</p>  <p>DS-200 0,444 kg/m</p>	<p>Travessa superior folha 45°</p>  <p>DS-080 0,360 kg/m</p>
<p>Montante / folha</p>  <p>DS-081 0,412 kg/m</p>	<p>Travessa / folha</p>  <p>DS-082 0,312 kg/m</p>
<p>Pingadeira / folha</p>  <p>DS-084 0,125 kg/m</p>	

Montante / travessa inferior da folha 45°



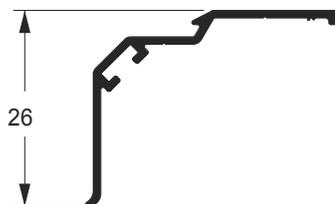
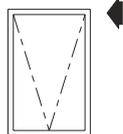
DS-090
0,453 kg/m

Travessa superior da folha 45°



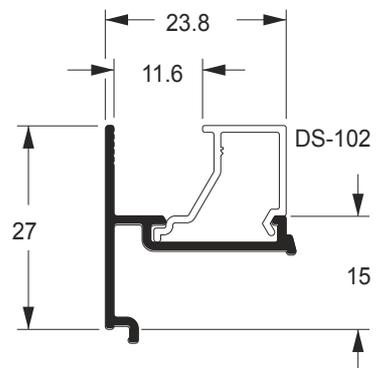
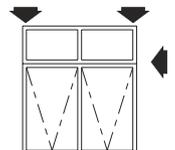
DS-091
0,401 kg/m

Pingadeira



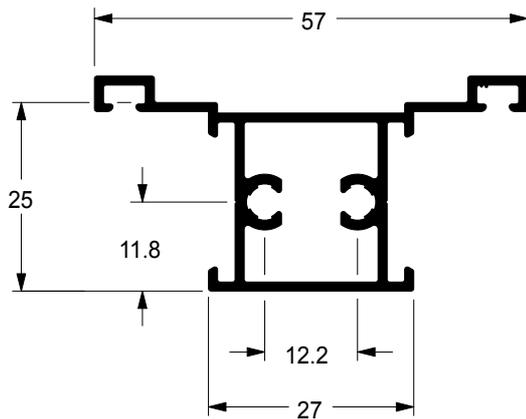
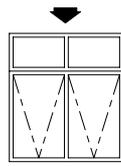
DS-276
0,168 kg/m

Inversor para baguete



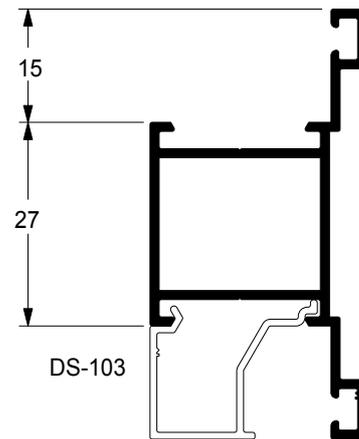
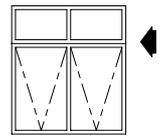
DS-292
0,206 kg/m

Coluna / marco



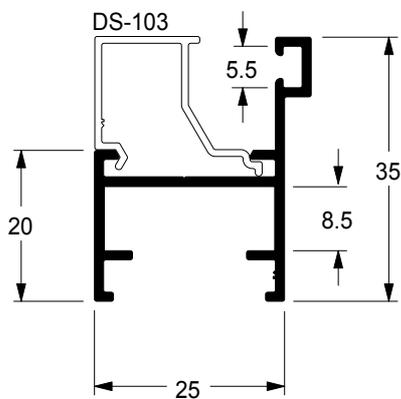
DS-086
0,596 kg/m

Travessa / marco



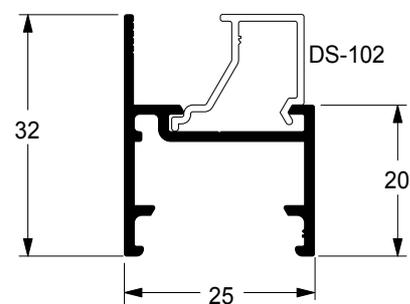
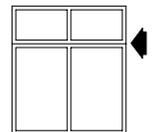
DS-085
0,501 kg/m

Marco

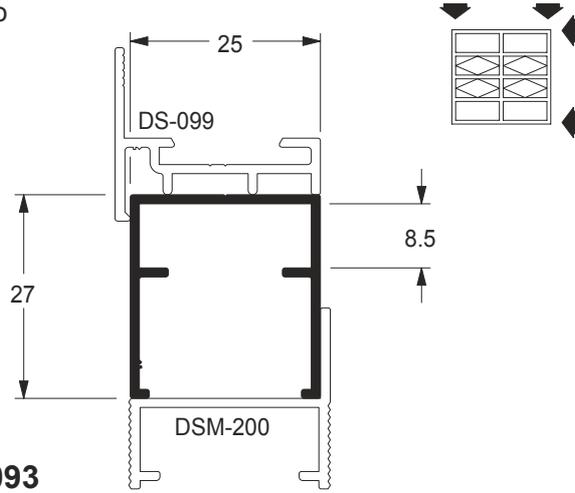
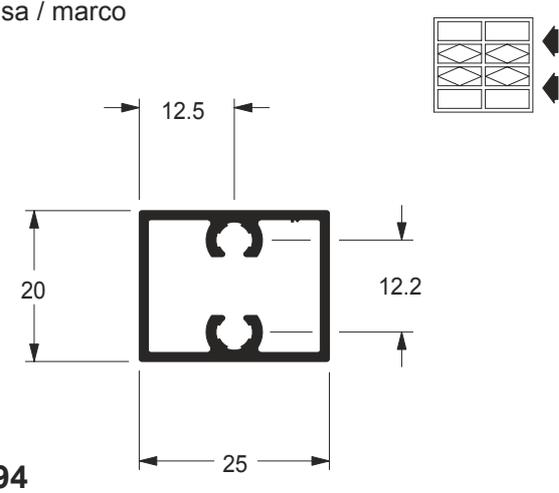
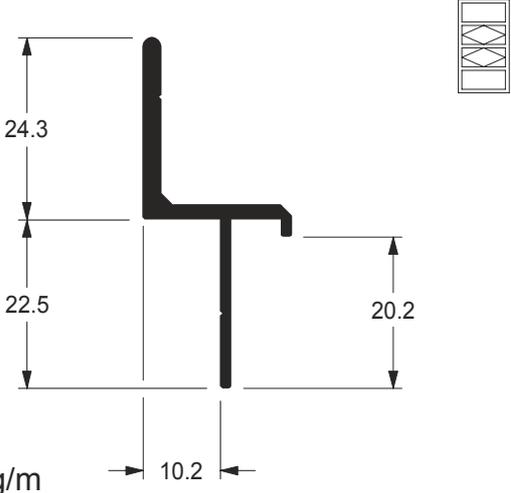
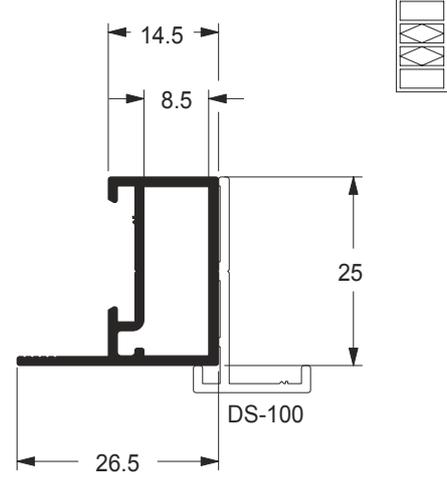
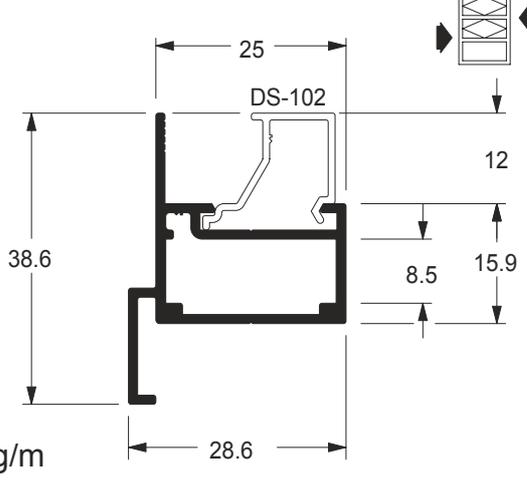
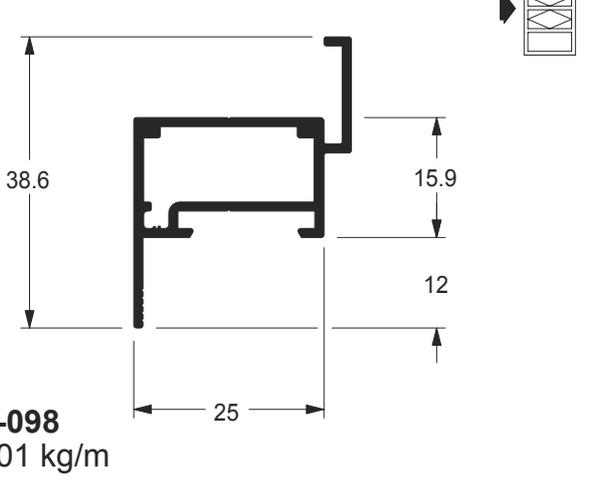


DS-079
0,341 kg/m

Marco



DS-088
0,312 kg/m

<p>Marco</p>  <p>DS-093 0,282 kg/m</p>	<p>Travessa / marco</p>  <p>DS-094 0,371 kg/m</p>
<p>Suporte</p>  <p>DS-101 0,360 kg/m</p>	<p>Montante / folha</p>  <p>DS-096 0,314 kg/m</p>
<p>Travessa / folha</p>  <p>DS-097 0,401 kg/m</p>	<p>Travessa / folha</p>  <p>DS-098 0,401 kg/m</p>

Baguete

DS-102
0,111 kg/m

Baguete

DS-103
0,140 kg/m

Complemento veneziana 22 folha / correr

DS-108
0,146 kg/m

Acoplador veneziana 12 e 22 folha / correr

DS-203
0,133 kg/m

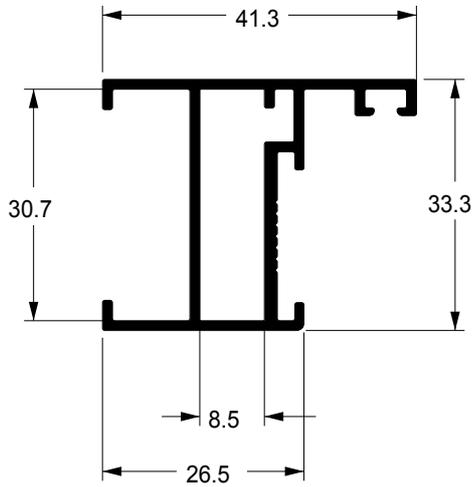
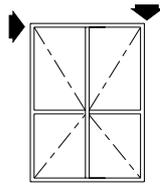
Componente / marco

DS-099
0,230 kg/m

Mata junta

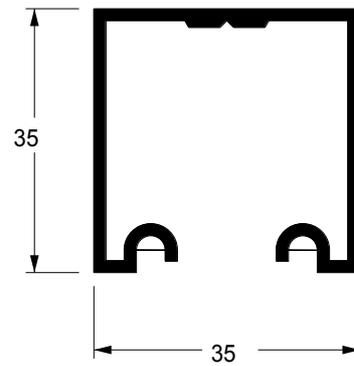
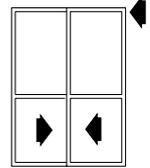
DS-100
0,157 kg/m

Marco lateral



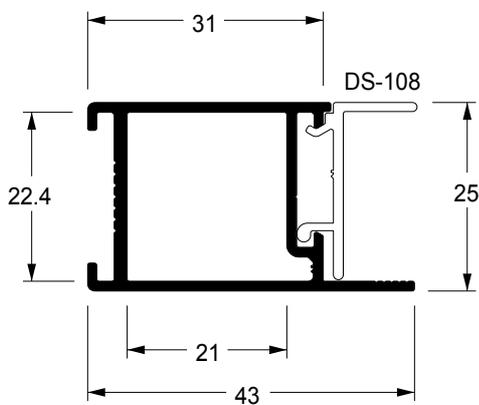
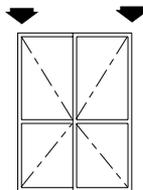
DS-279
0,565 kg/m

Trilho superior



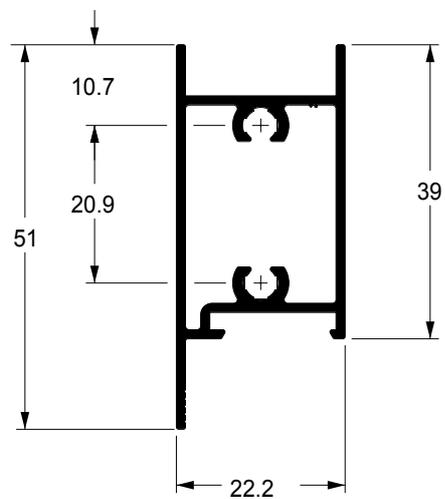
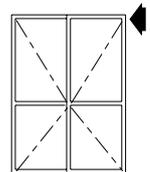
CX-1226
0,567 kg/m

Montante folha



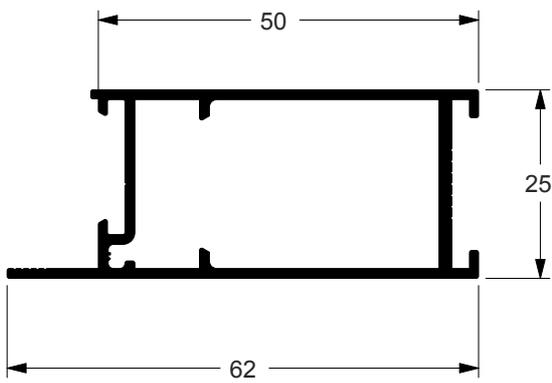
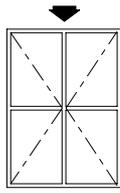
DS-120
0,482 kg/m

Travessa folha



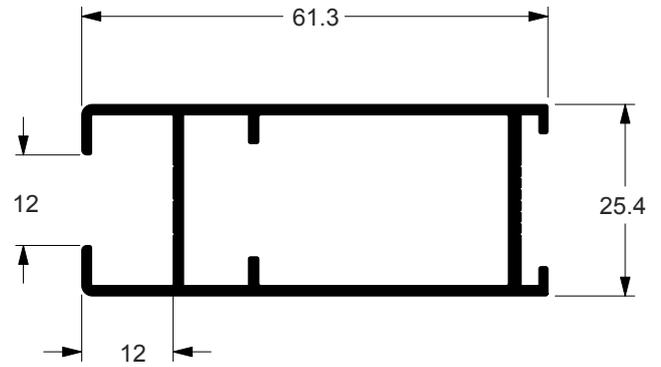
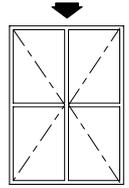
DS-110
0,534 kg/m

Montante folha



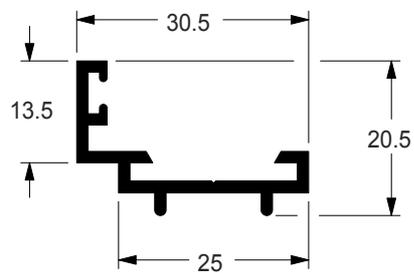
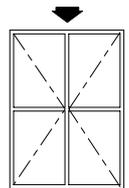
DS-111
0,640 kg/m

Montante folha sem baguete



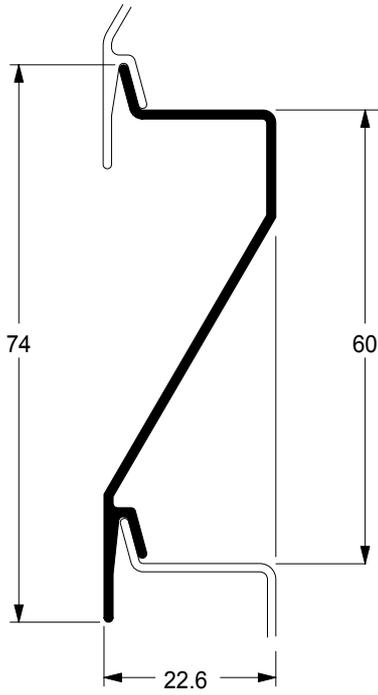
DS-241
0,734 kg/m

Complemento folha



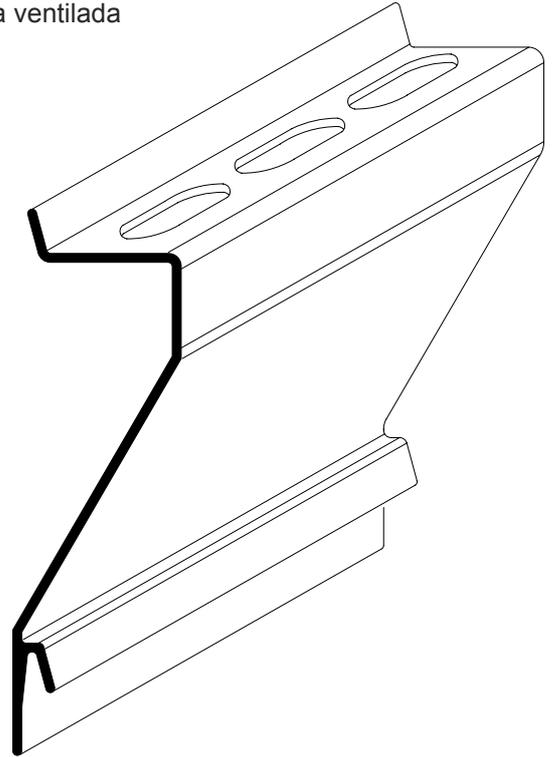
25-548
0,283 kg/m

Veneziana



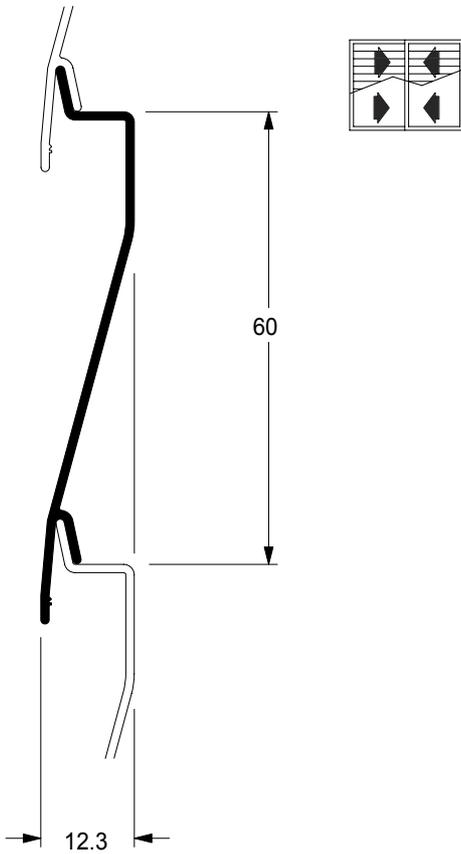
VZ-006
0,326 kg/m

Veneziana ventilada



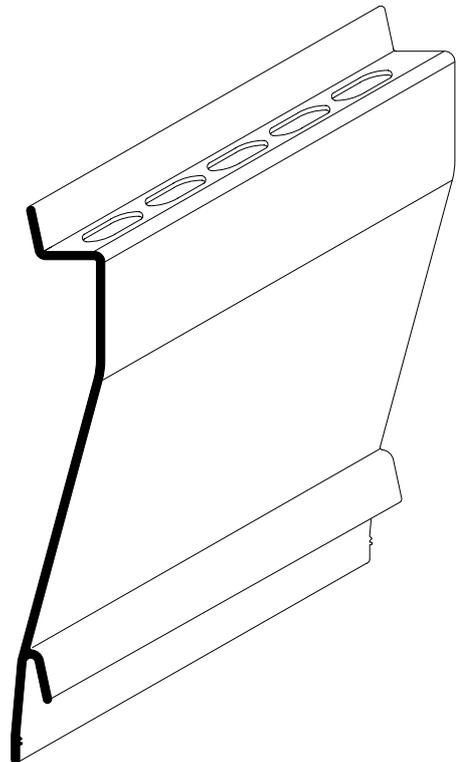
US-285
0,326 kg/m

Veneziana



VZ-051
0,268 kg/m

Veneziana ventilada



US-294
0,268 kg/m



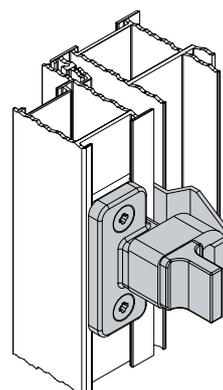
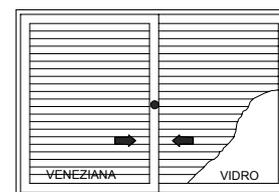
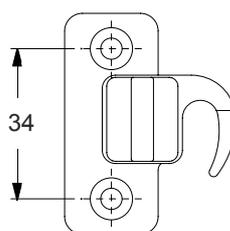
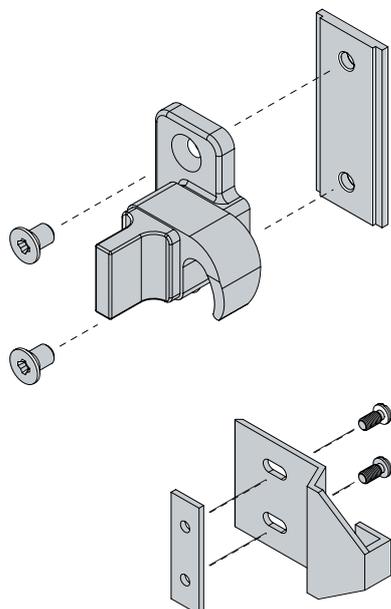
LINHA DS

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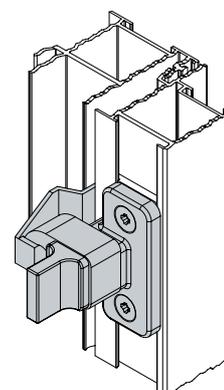
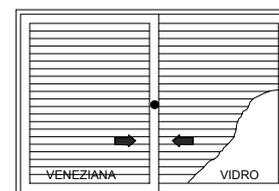
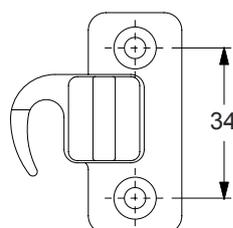
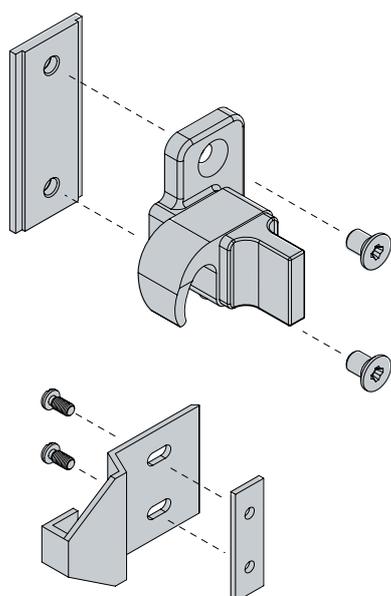
Aplicação

FEC-056

Fecho direito - Janela de correr

Acabamento: Alumínio preto

Embalagem: 1 peça



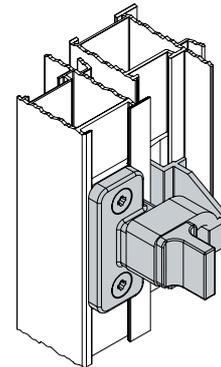
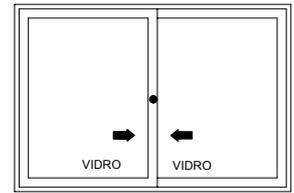
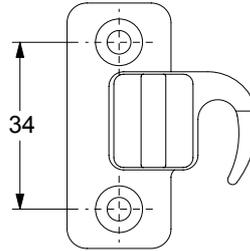
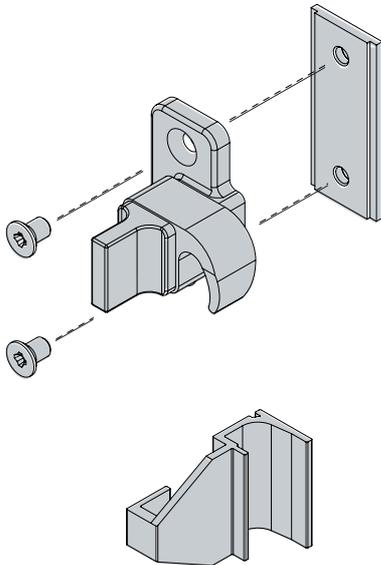
Aplicação

FEC-058

Fecho esquerdo - Janela de correr

Acabamento: Alumínio preto

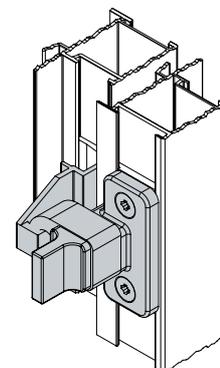
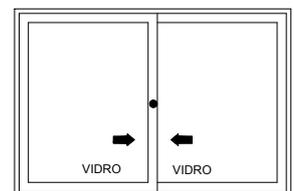
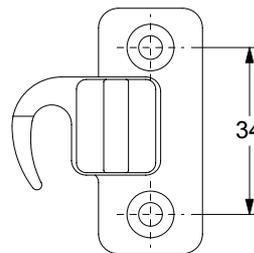
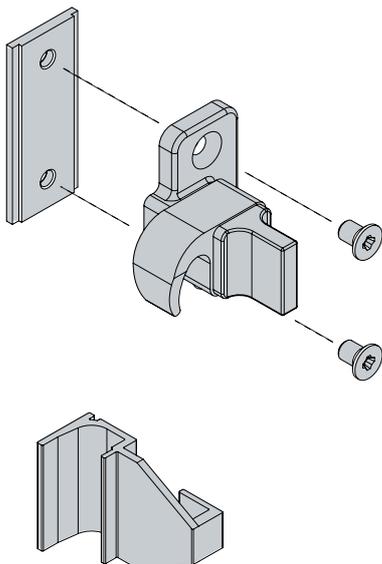
Embalagem: 1 peça



Aplicação

FEC-057

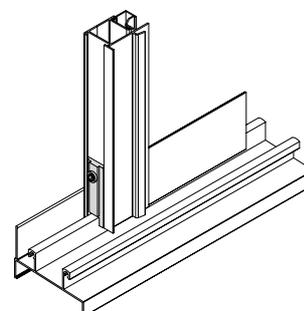
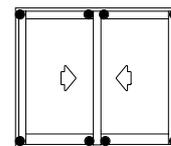
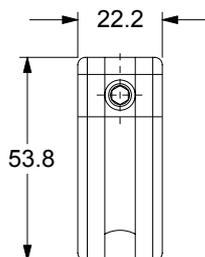
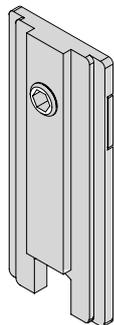
Fecho direito - Janela de correr
Acabamento: Alumínio preto
Embalagem: 1 peça



Aplicação

FEC-060

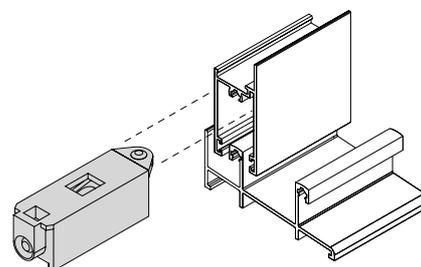
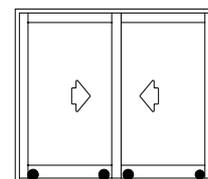
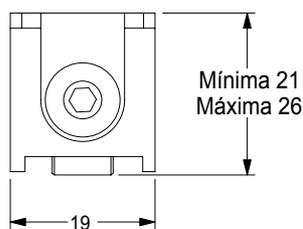
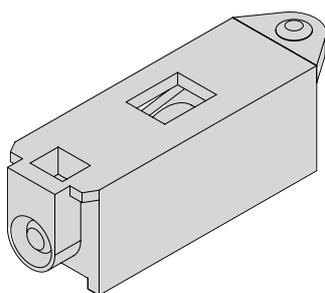
Fecho esquerdo - Janela de correr
Acabamento: Alumínio preto
Embalagem: 1 peça



Aplicação

NYL-332

Guia deslizante - Janela e porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 20 peças

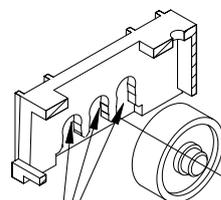
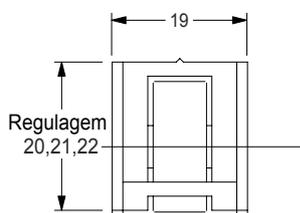
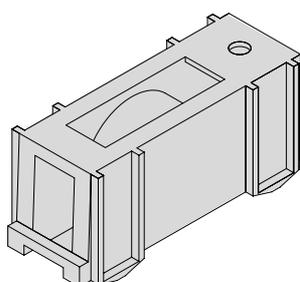


Aplicação

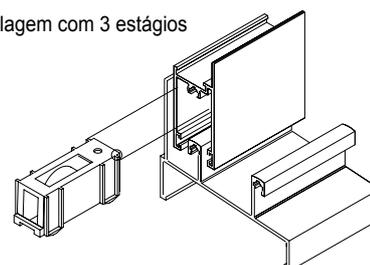
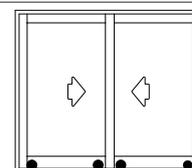
ROL-843

Roldana com regulagem com rolamento - Janela de correr
Acabamento: Nylon 6.6 preto
Embalagem: 01 peça

Peso máximo por folha 30 kg



Regulagem com 3 estágios

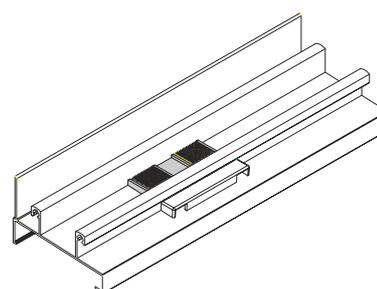
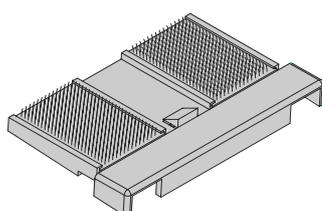
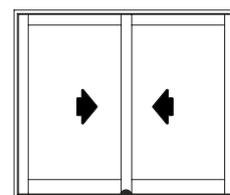
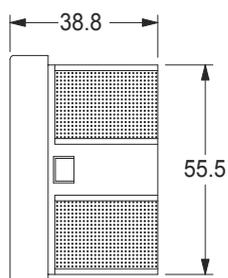


Aplicação

ROL-461

Roldana com regulagem sem rolamento - janela de correr
Acabamento: Nylon 6.6 preto
Embalagem: 10 peças

Peso máximo por folha 15 kg



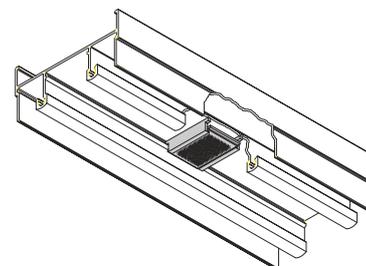
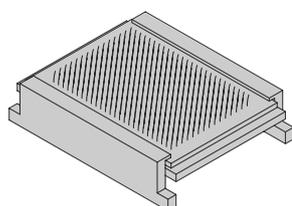
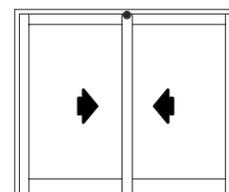
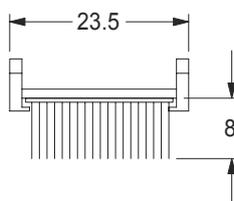
Aplicação

NYL-329

Caixa de dreno e vedador - Janela de correr

Acabamento: Nylon 6.6 preto

Embalagem: 10 peças



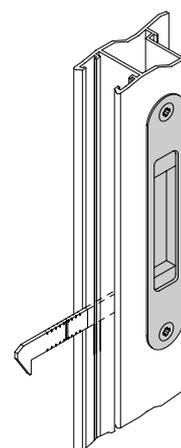
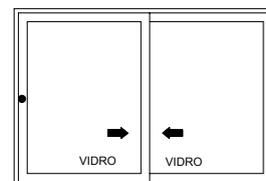
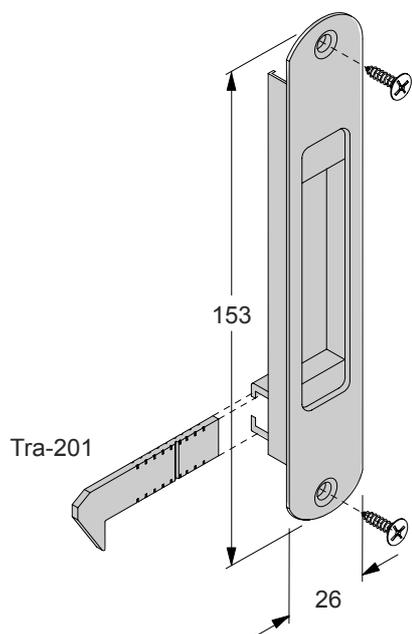
Aplicação

NYL-335

Vedador de vento - Janela de correr

Acabamento: Nylon 6.6 preto

Embalagem: 10 peças



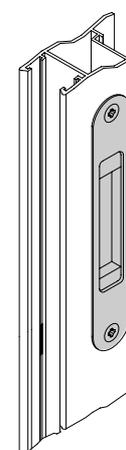
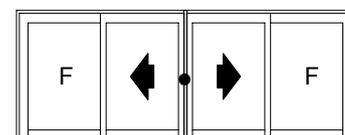
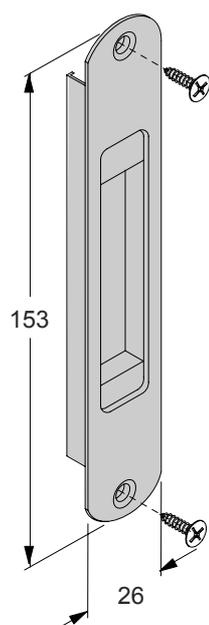
Aplicação

FEC-120

Fecho concha sem chave e trava - Janela

Acabamento: Alumínio preto

Embalagem: 1 peça



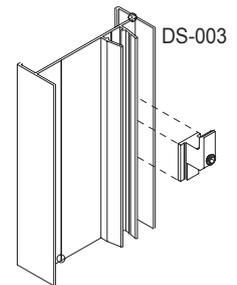
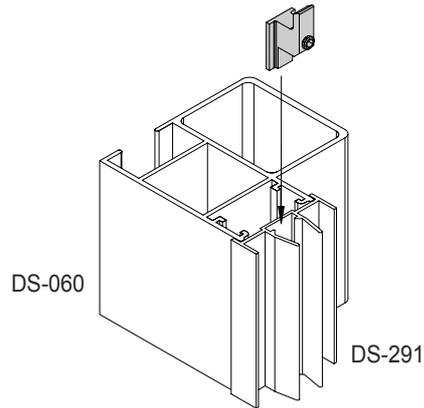
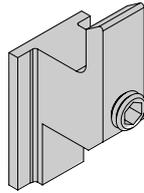
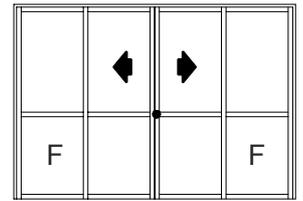
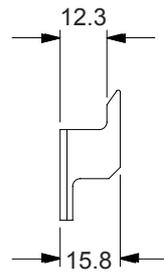
Aplicação

CON-120

Concha cega - Janela

Acabamento: Alumínio preto

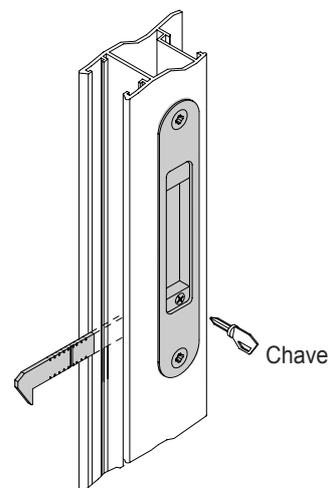
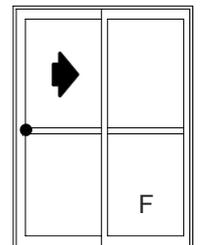
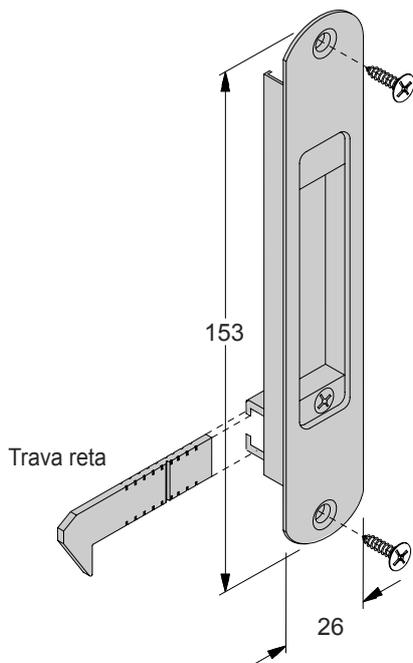
Embalagem: 1 peça



Aplicação

CON-409

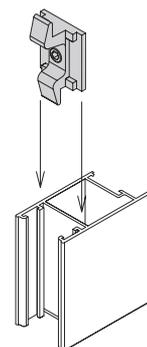
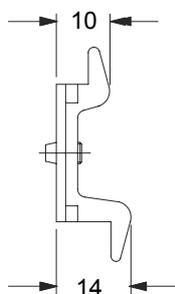
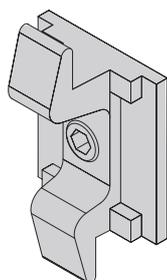
Contrafecho para fechadura - Porta de correr
Acabamento: Zamak preto
Embalagem: 10 peças



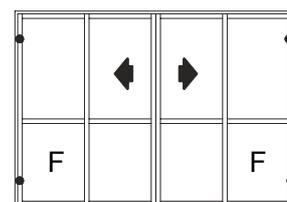
Aplicação

FEC-645

Fecho concha com chave e trava reta - Porta de correr
Acabamento: Alumínio preto
Embalagem: 1 peça



Aplicação

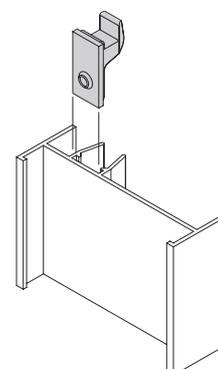
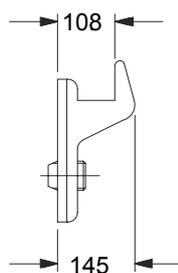
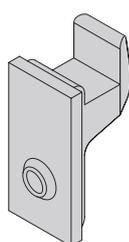


CON-755

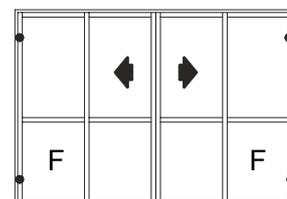
Contrafecho - Janela e porta de correr

Acabamento: Zamak preto

Emalagem: 10 peças



Aplicação

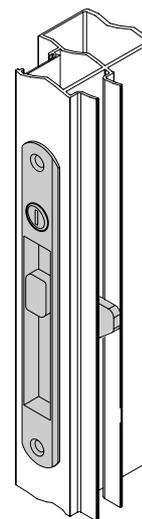
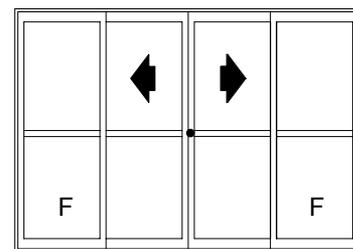
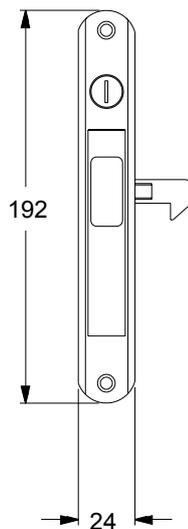
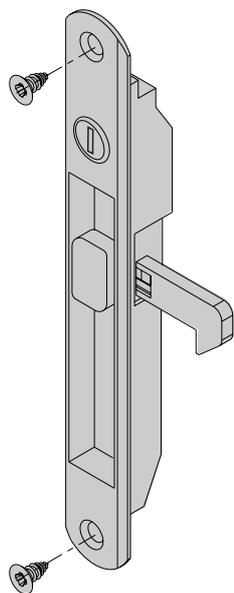


CON-370

Contrafecho - Janela e porta de correr

Acabamento: Zamak preto

Embalagem: 10 peças



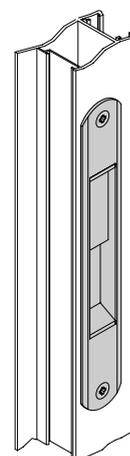
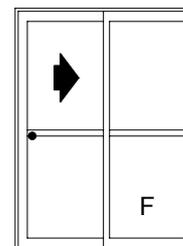
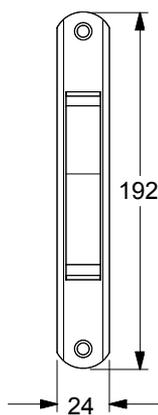
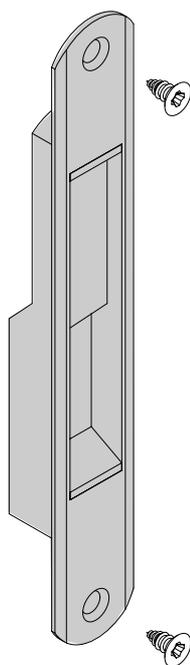
Aplicação

FEC-121

Fecho-concha sem chave - Porta de correr

Acabamento: Alumínio preto

Embalagem: 1 peça



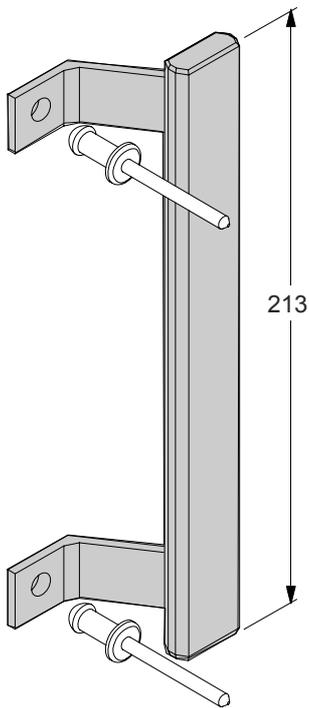
Aplicação

CON-121

Concha cega - Porta de correr

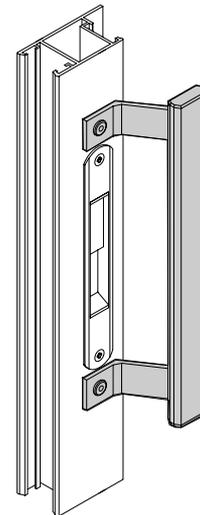
Acabamento: Nylon preto

Embalagem: 1 peça

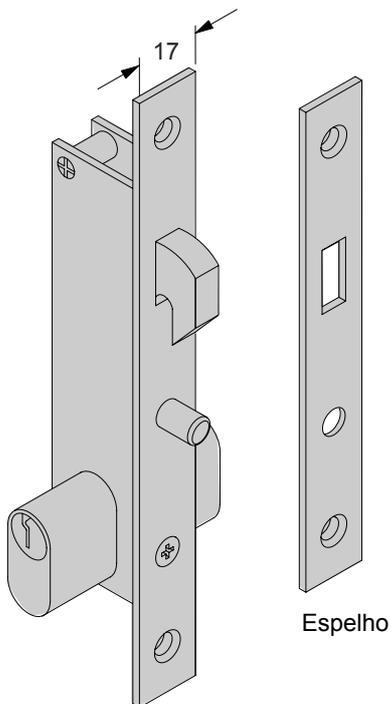
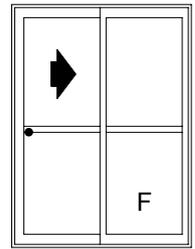


PUX-006

Puxador - Porta de correr
Acabamento: Alumínio preto
Embalagem: 1 peça

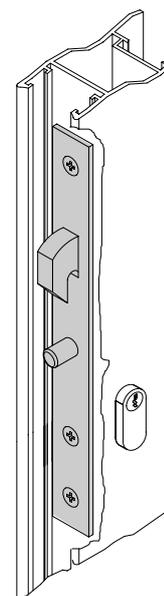
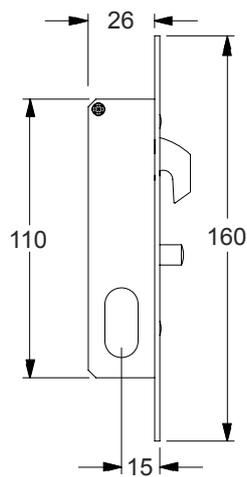


Aplicação

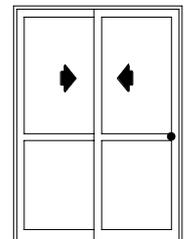


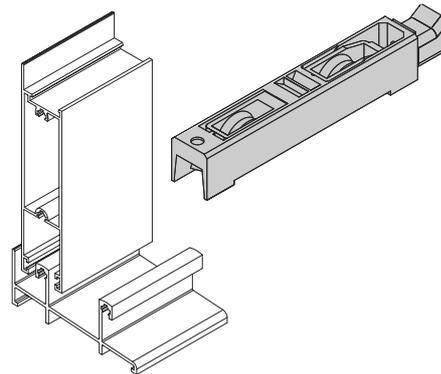
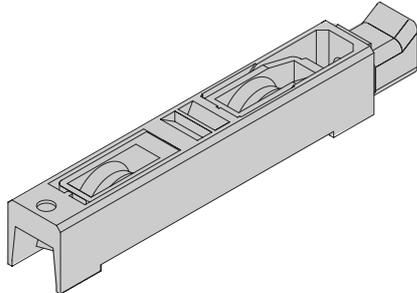
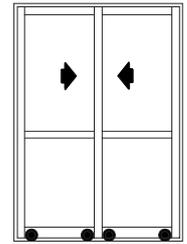
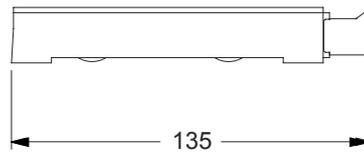
FRA-820

Fechadura - Porta de correr
Acabamento: Preto
Embalagem: 1 peça



Aplicação



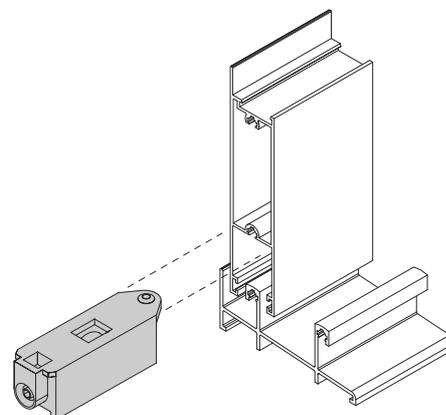
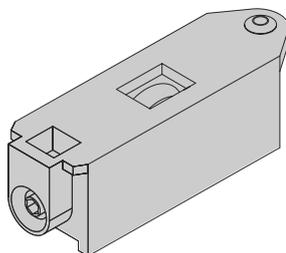
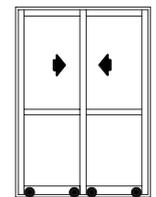
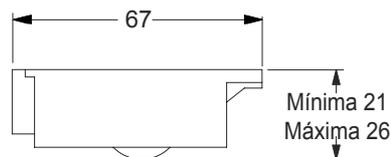


Aplicação

ROL-439

Roldana dupla com rolamento e regulagem - Porta de correr
Acabamento: Nylon
Embalagem: 2 peças

Carga máxima por folha 80 kg

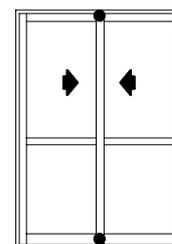
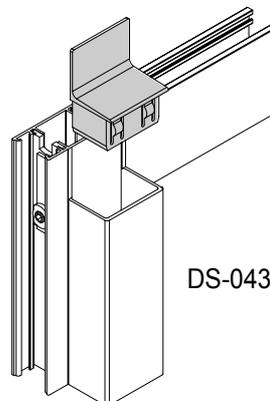
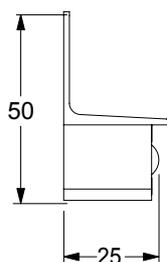
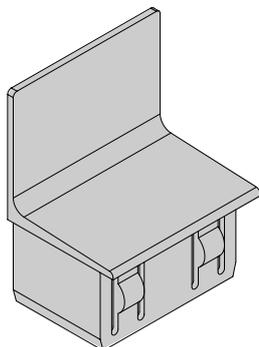


Aplicação

ROL-440

Roldana com regulagem e rolamento - Porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 10 peças

Carga máxima por folha 40 kg

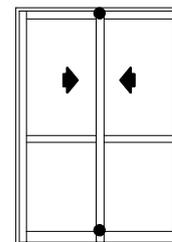
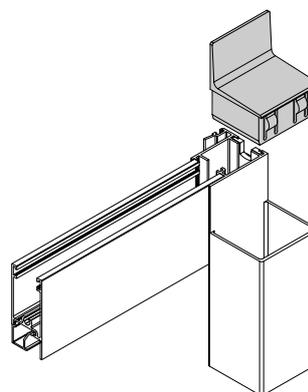
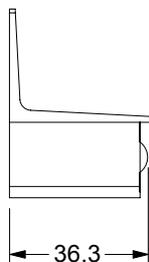
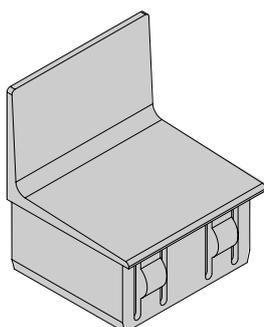


NYL-356

Recobrimento - Porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 20 peças

DS-043-044

Aplicação

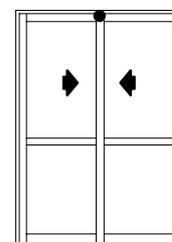
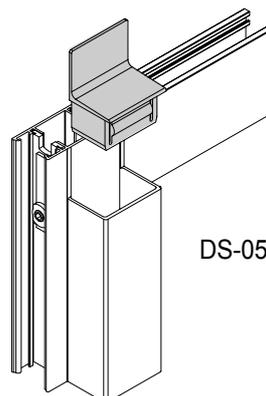
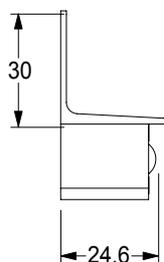
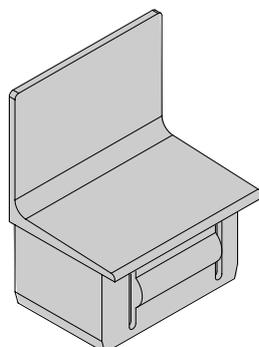


NYL-357

Recobrimento - Porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 20 peças

DS-047-049

Aplicação

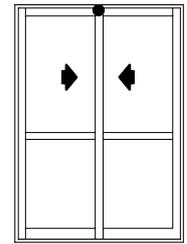
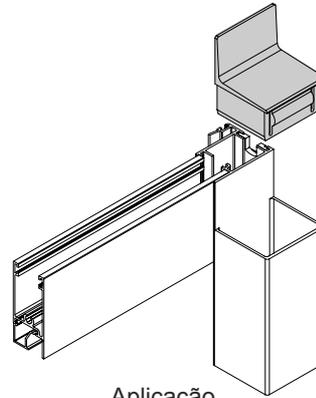
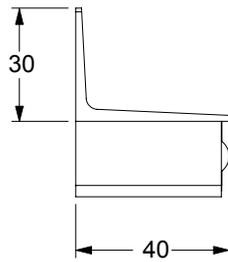
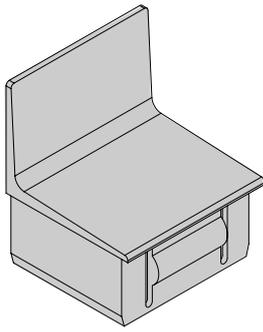


NYL-363

Recobrimento - Porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 20 peças

DS-059-060

Aplicação

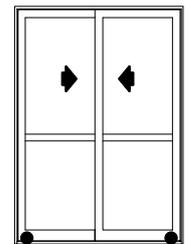
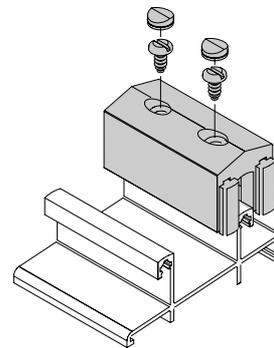
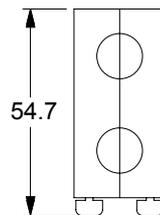
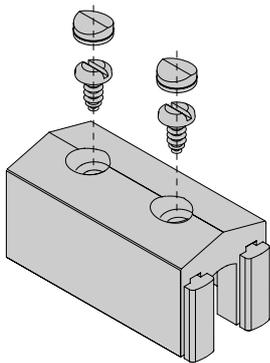


NYL-364

Recobrimento - Porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 20 peças

DS-061

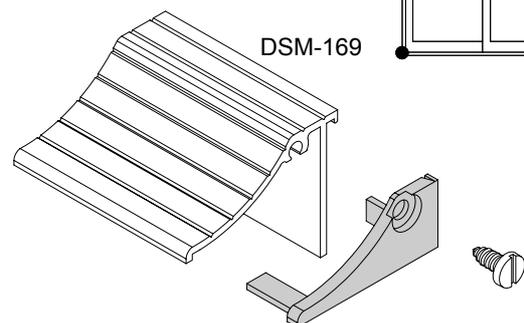
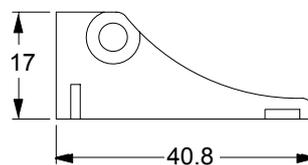
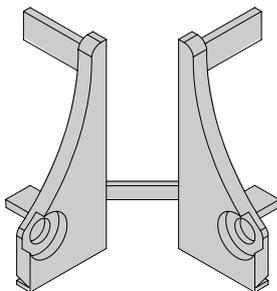
Aplicação



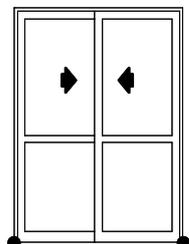
NYL-414

Batedeira - Janela e porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 10 peças

Aplicação



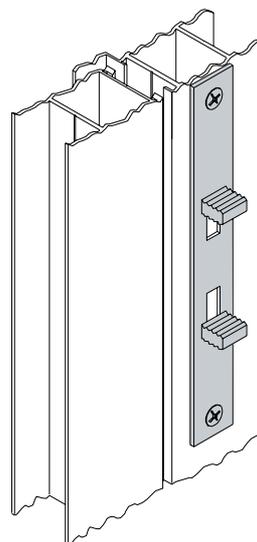
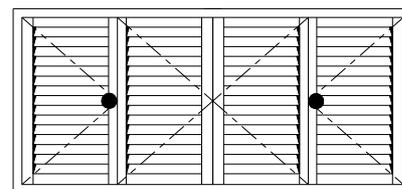
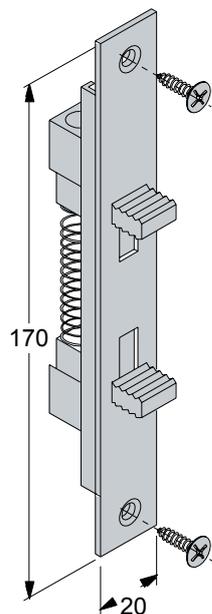
DSM-169



NYL-416

Recobrimento da soleira - Porta de correr
Acabamento: Nylon 6.6 preto
Embalagem: 10 peças com parafuso

Aplicação



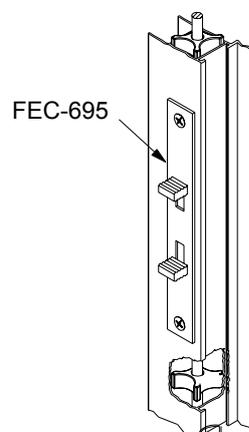
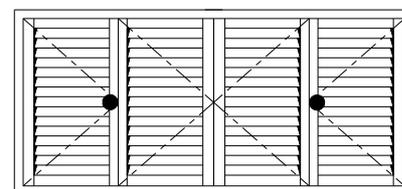
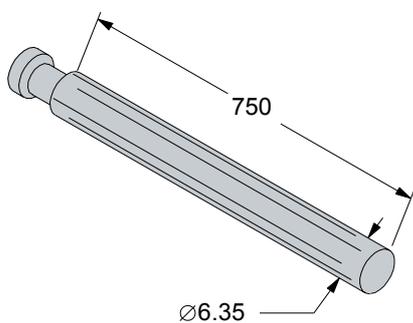
Aplicação

FEC-695

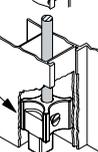
Fecho duplo - Janela camarão

Acabamento: Alumínio preto / Nylon 6.6

Embalagem: 1 peça com parafusos



NYL-336



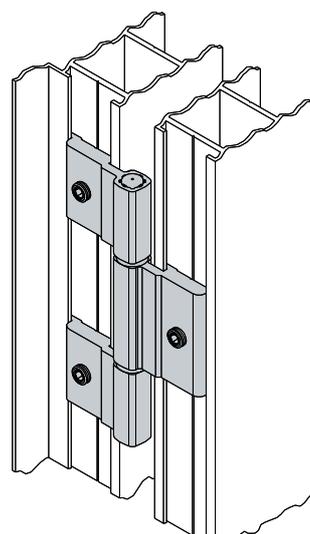
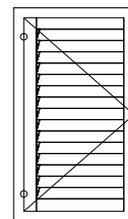
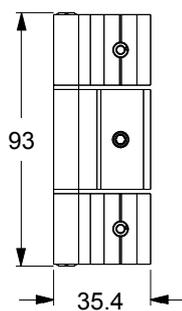
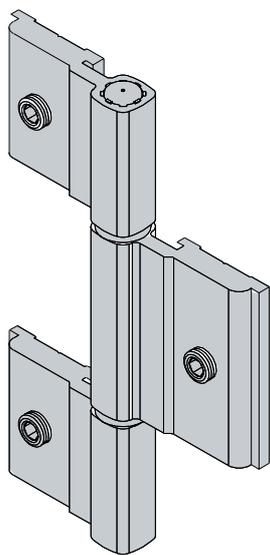
Aplicação

HAS-812

Haste de comando - Janela camarão

Acabamento: Alumínio natural

Embalagem: 10 peças



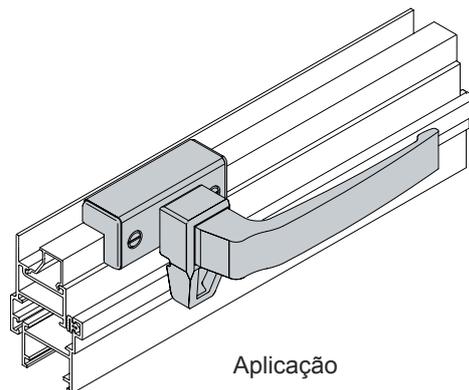
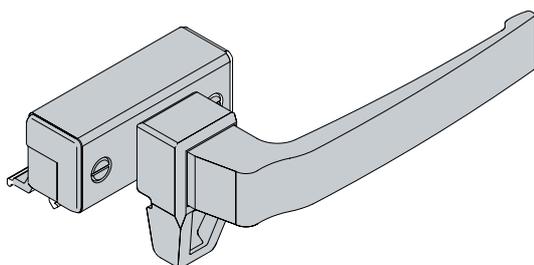
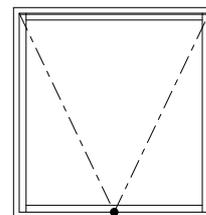
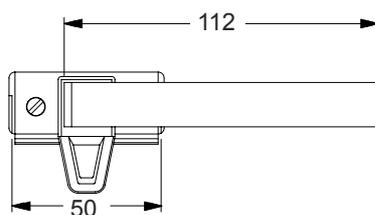
Aplicação

DOB-837

Dobradiça - Portinhola

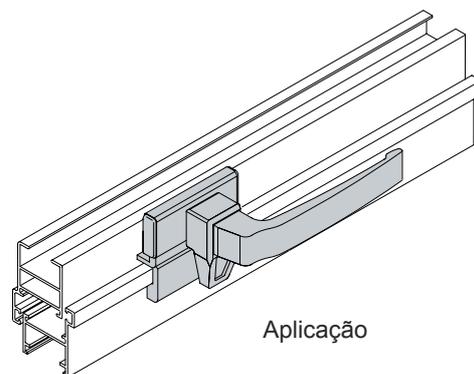
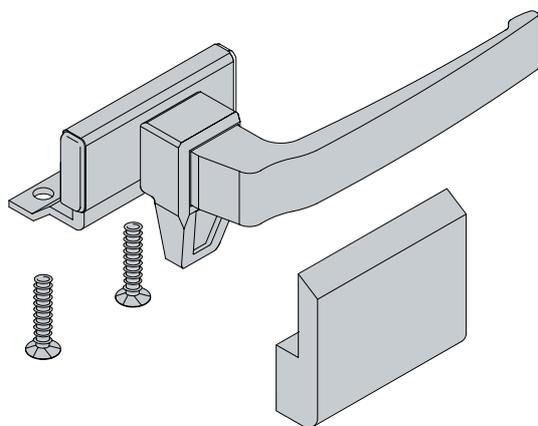
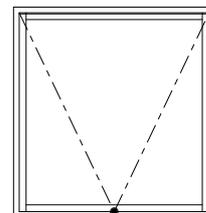
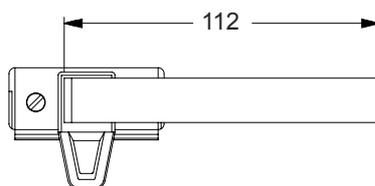
Acabamento: Preto

Embalagem: 2 peças



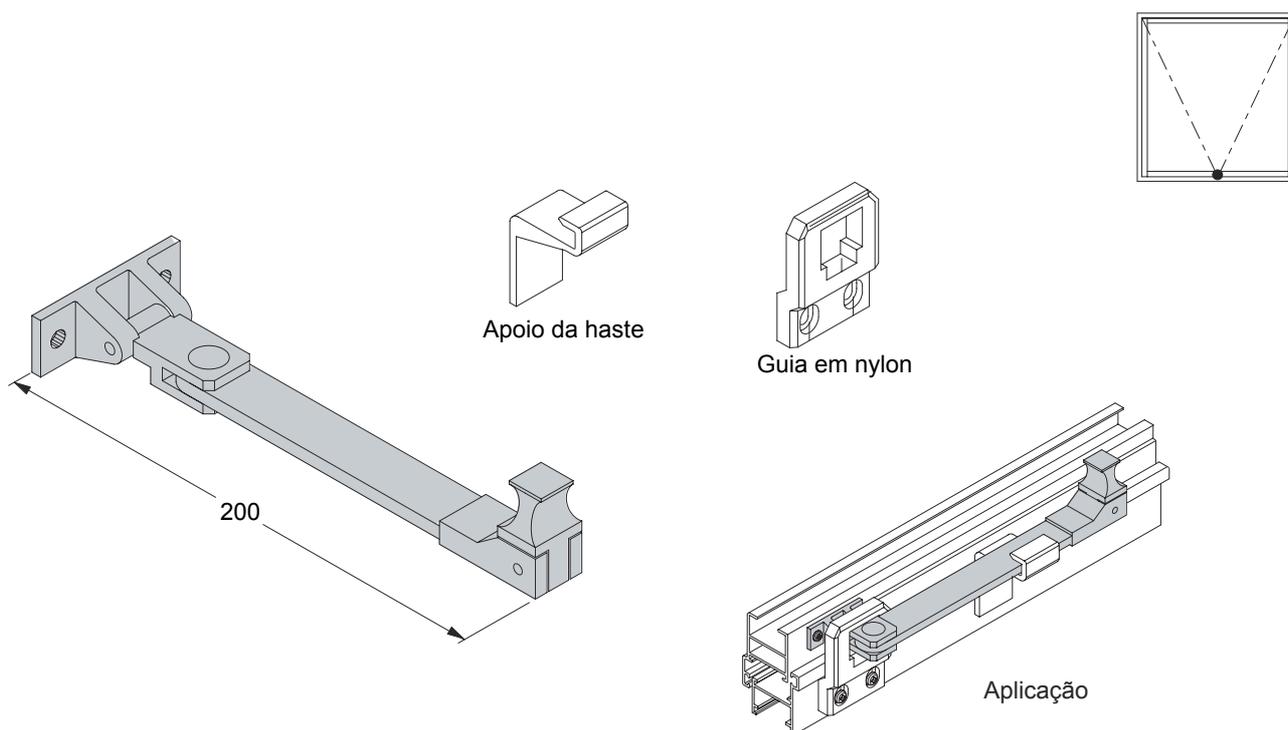
FEC-009

Fecho direito - Janela maxim-ar
Acabamento: Preto
Embalagem: 1 peça



FEC-010

Fecho direito - Janela maxim-ar sem baguete
Acabamento: Preto
Embalagem: 1 peça

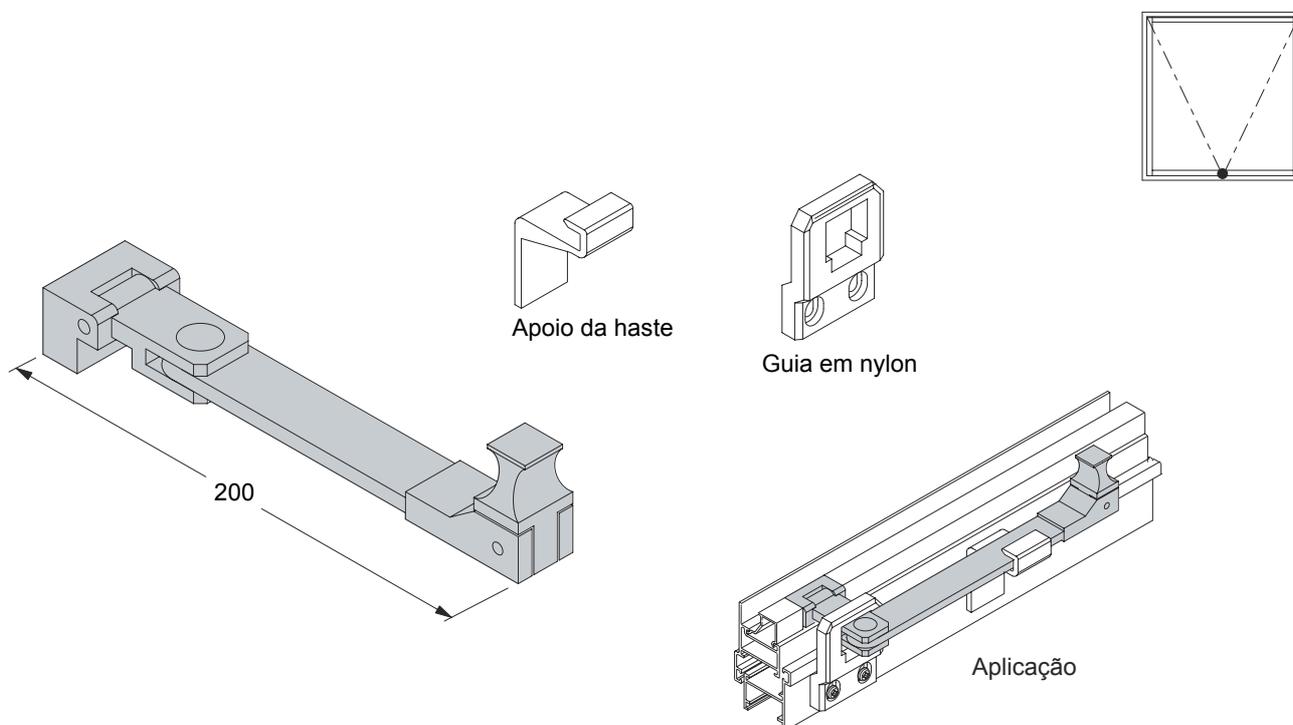


FEC-011

Haste de comando - Janela maxim-ar

Acabamento: Alumínio preto / Nylon

Embalagem: 1 peça

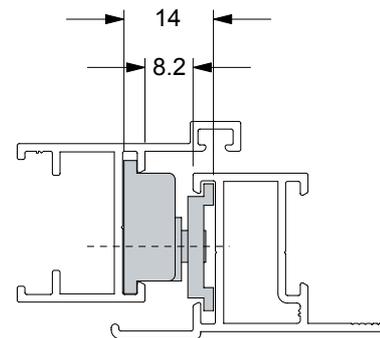
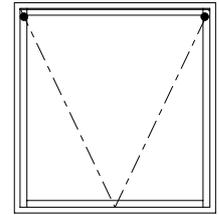
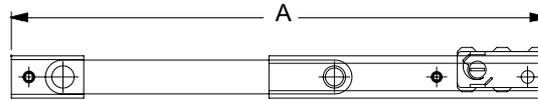
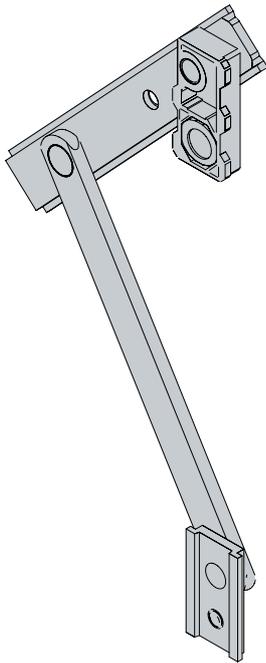


FEC-059

Haste de comando - Janela maxim-ar

Acabamento: Alumínio preto / Nylon

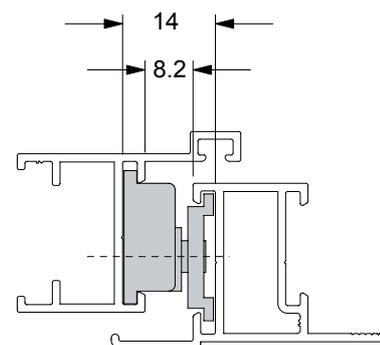
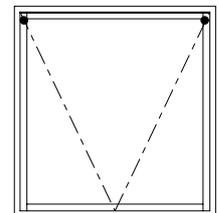
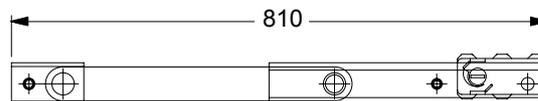
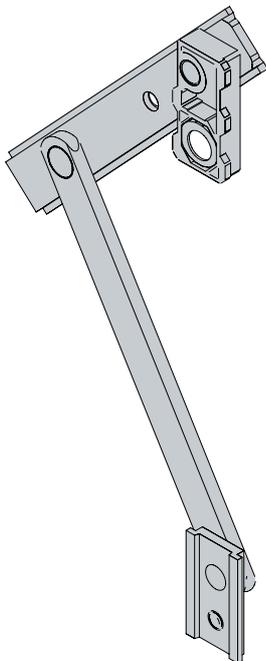
Embalagem: 1 peça



Aplicação

Código	Dimensões (mm)	Altura da folha (mm)	
	(A)	Mínimo	Máximo
BRA-785	250	270	500
BRA-782	500	510	760
BRA-783	750	770	900

Acabamento: Alumínio preto
Embalagem: 1 par

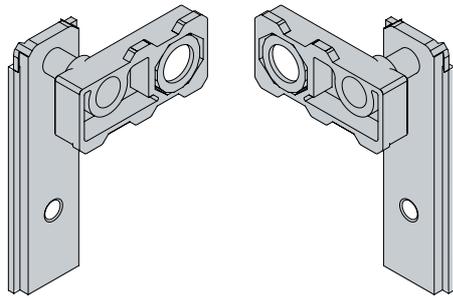


Aplicação

Braço reforçado

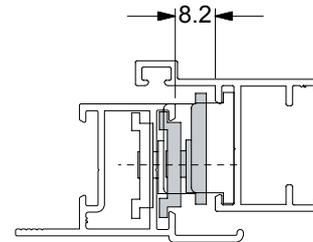
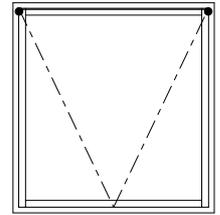
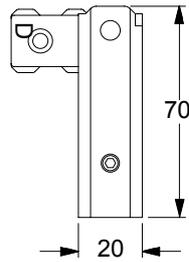
Código	Dimensões (mm)	Altura da folha (mm)	
	(A)	Mínimo	Máximo
BRA-786	810	900	1200

Acabamento: Alumínio preto
Embalagem: 1 par



Esquerda

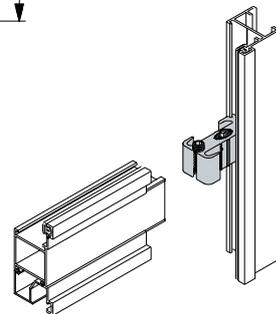
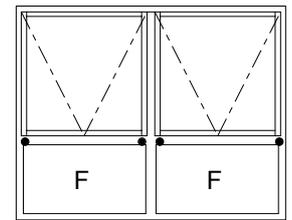
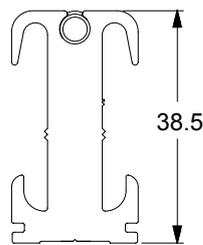
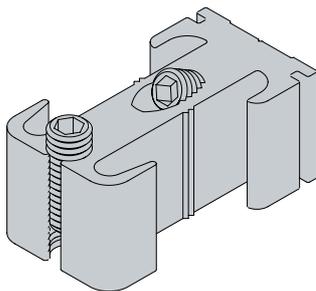
Direita



Aplicação

PIV-752

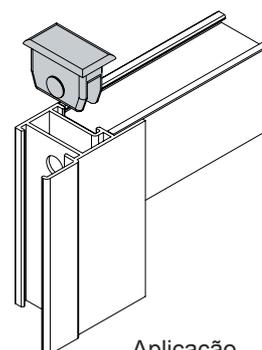
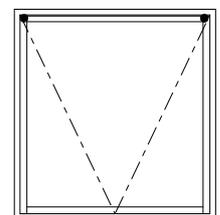
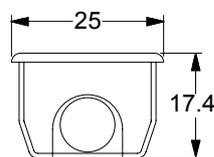
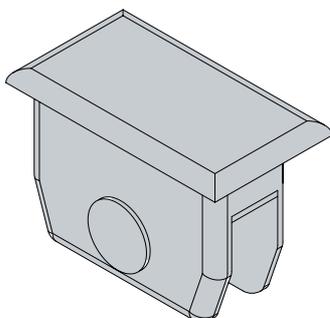
Pivô da folha - Janela projetante
Acabamento: Alumínio preto / Nylon
Embalagem: 1 par



Aplicação

CON-376

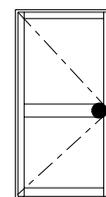
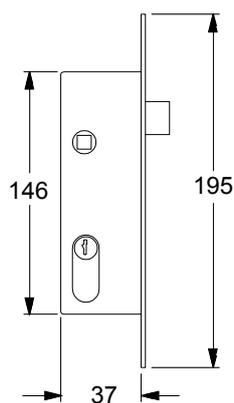
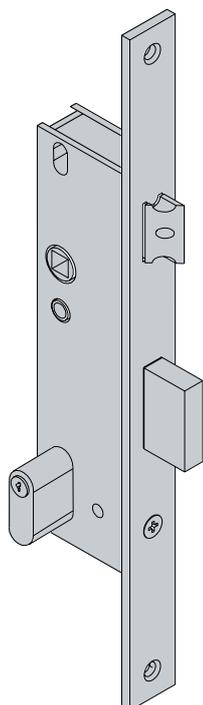
Fixador de travessa - Janela maxim-ar
Acabamento: Natural
Embalagem: 10 peças



Aplicação

NYL-355

Recobrimento - Janela maxim-ar 90°
Acabamento: Nylon 6.6 preto
Embalagem: 100 peças



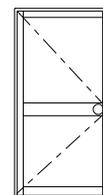
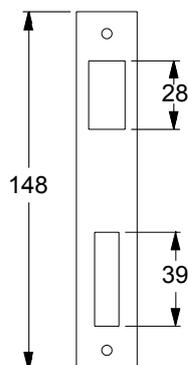
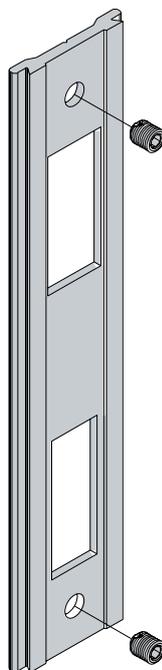
FRA-822

Fechadura - Porta de giro
Acabamento: Latão fumê
Embalagem: 1 peça



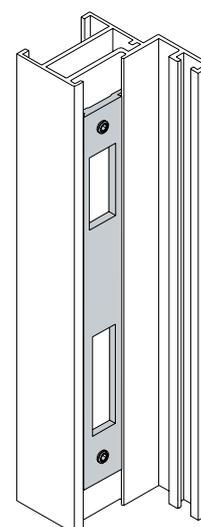
MAC-927

Aplicação

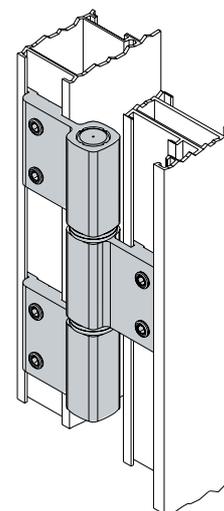
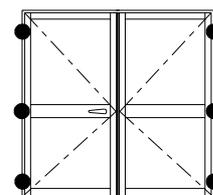
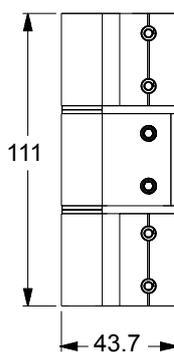
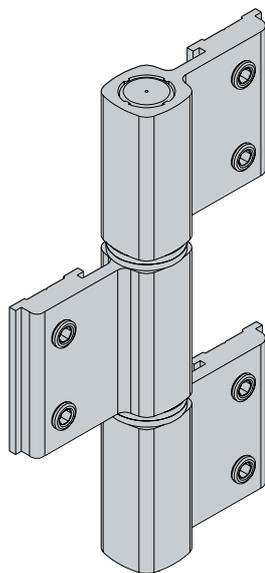


CON-295

Contra testa - Porta de giro
Acabamento: Alumínio preto
Embalagem: 01 peça



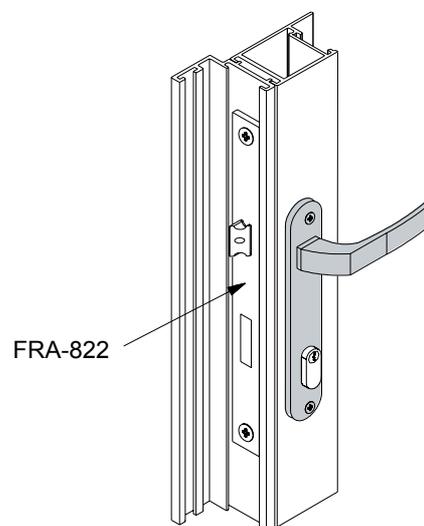
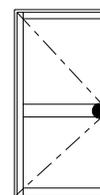
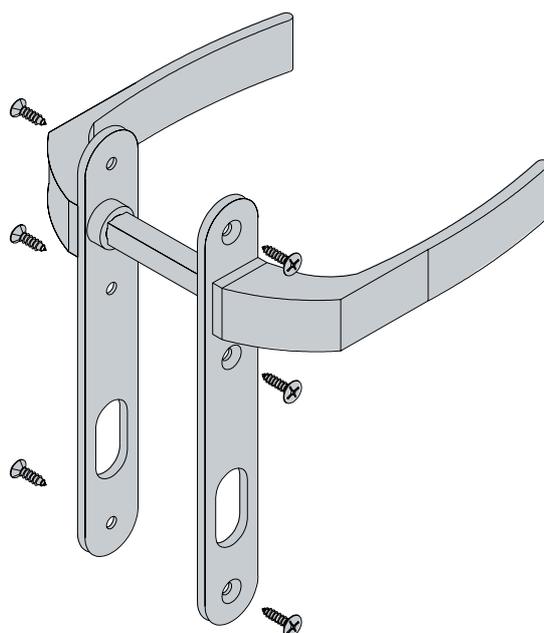
Aplicação



Aplicação

DOB-840

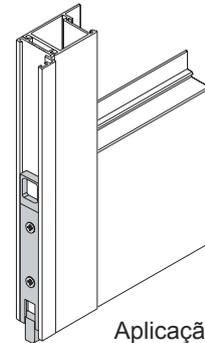
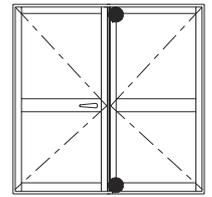
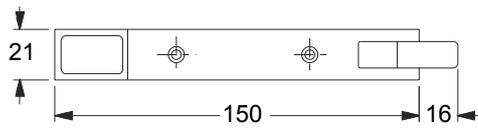
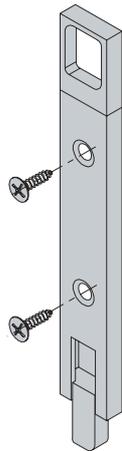
Dobradiça - Porta de giro
Acabamento: Preto
Embalagem: 3 peças



Aplicação

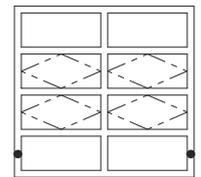
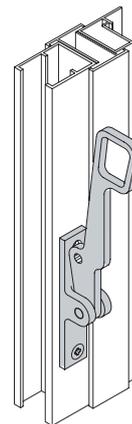
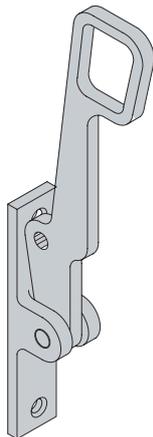
MAC-927

Maçaneta com espelho - Porta de giro
Acabamento: Preto
Embalagem: 1 peça



FEC-338

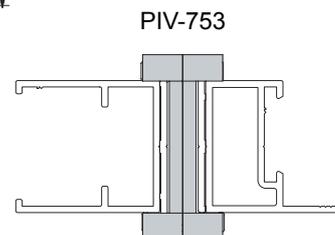
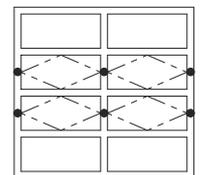
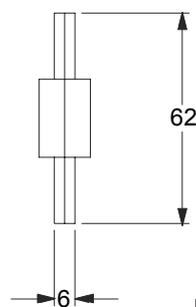
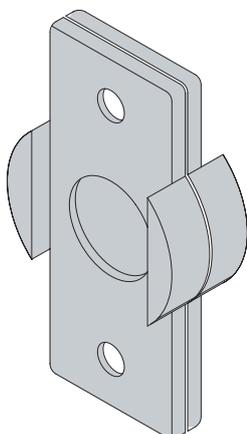
Fecho tipo unha de sobrepor - Porta de giro
Acabamento: Alumínio / Nylon
Embalagem: 1 peça



Aplicação

ALA-057

Alavanca com cavalete - Janela basculante
Acabamento: Alumínio preto
Embalagem: 1 peça

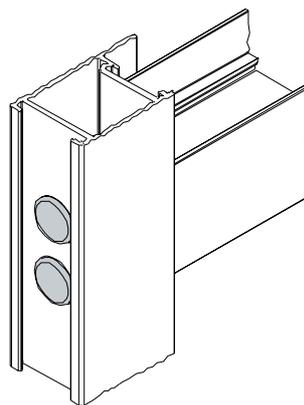
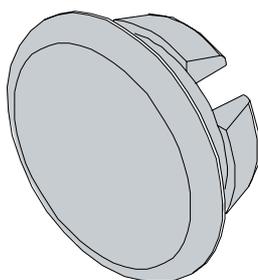
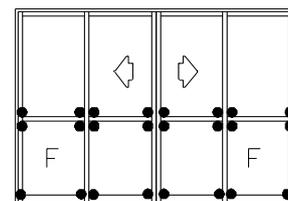
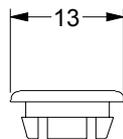


PIV-753

Aplicação

PIV-753

Pivô - Janela basculante
Acabamento: Nylon 6.6 preto
Embalagem: 10 peças



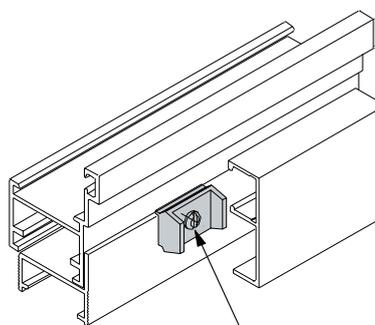
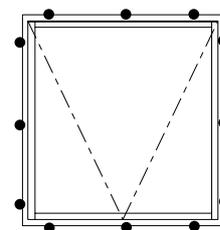
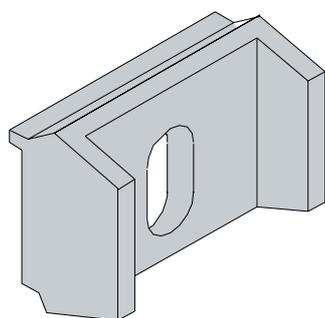
Aplicação

NYL-042

Botão tampa furo 3/8 - Janela e porta de correr

Acabamento: Nylon 6.6 preto

Embalagem: 100 peças



PAR-936

MP-347

Aplicação

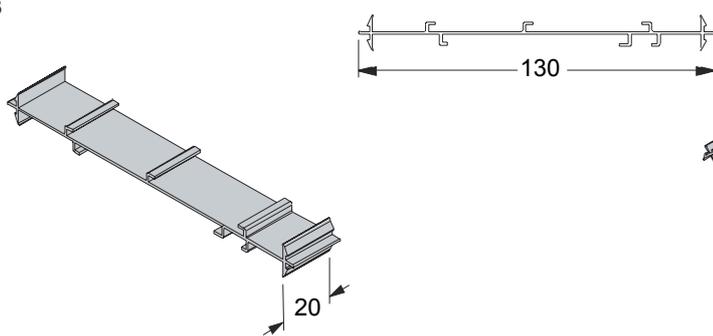
NYL-190

Botão de fixação do remate - Janela e porta

Acabamento: Nylon 6.6 preto

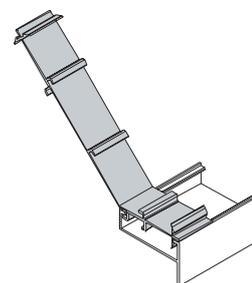
Embalagem: 100 peças

Perfil base DSM-093



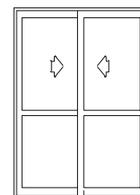
CHU-838

Chumbador - Contramarco
Acabamento: Alumínio natural
Embalagem: 50 peças

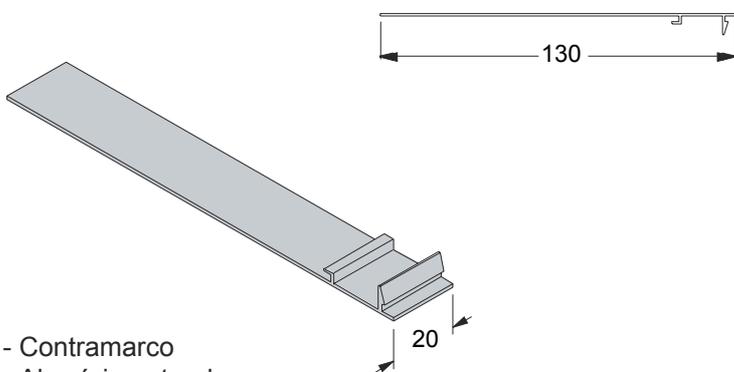


Perfil DSM-200

Aplicação

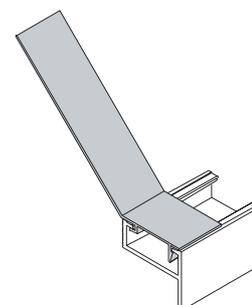


Perfil base DSM-099



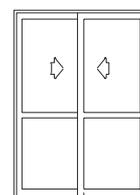
CHU-840

Chumbador - Contramarco
Acabamento: Alumínio natural
Embalagem: 50 peças

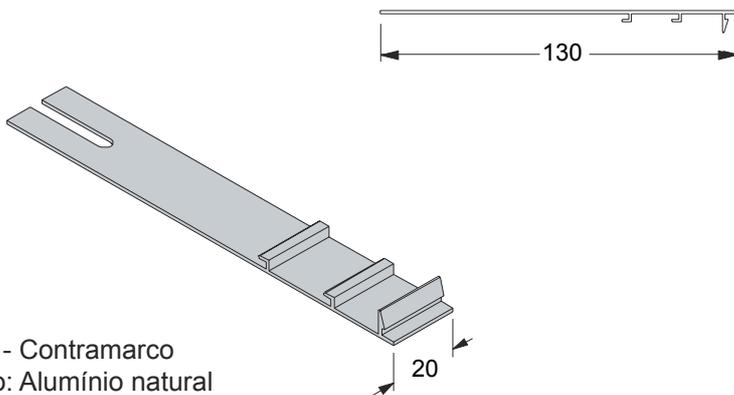


Perfil DSM-200

Aplicação

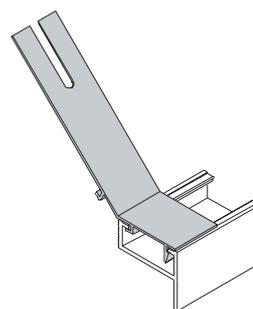


Perfil base DSM-124



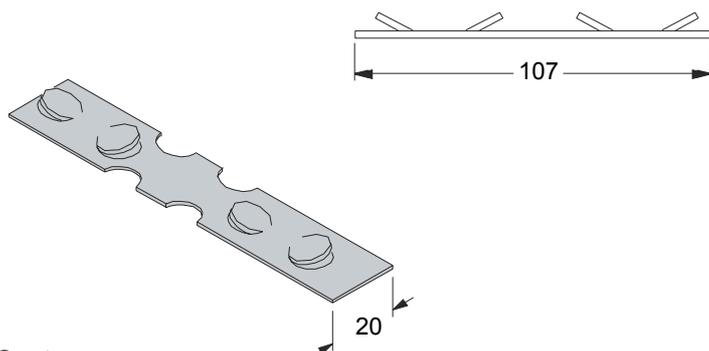
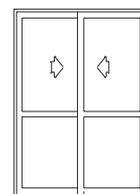
CHU-864

Chumbador - Contramarco
Acabamento: Alumínio natural
Embalagem: 50 peças



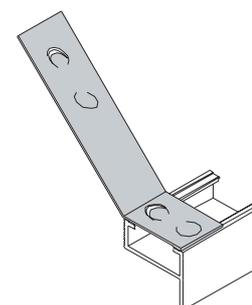
Perfil DSM-060/098/200

Aplicação



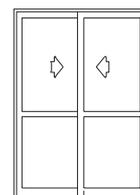
CHU-787

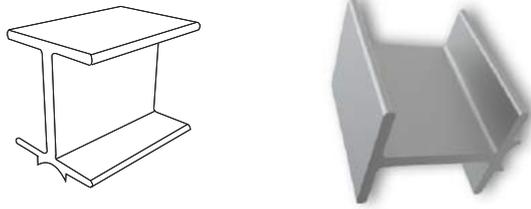
Chumbador - Contramarco
Acabamento: Aço zincado
Embalagem: 50 peças



Perfil DSM-060/200

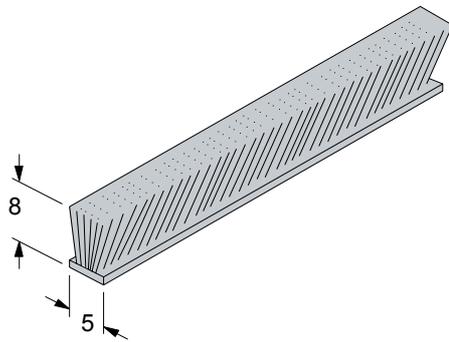
Aplicação





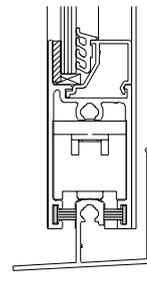
CAL-948

Calço da folha fixa
Acabamento: Nylon 6.6 preto
Embalagem: 20 peças

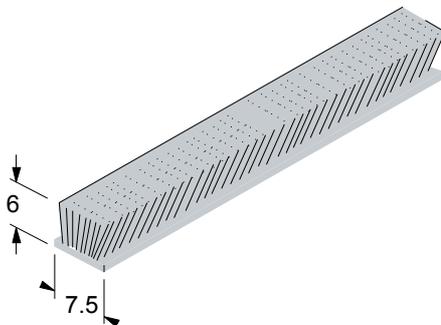
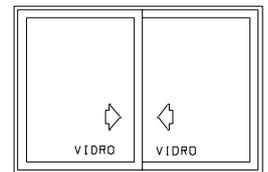


FIT-212

Fita vedadora sem barreira plástica
Acabamento: Preto
Embalagem: 50 metros

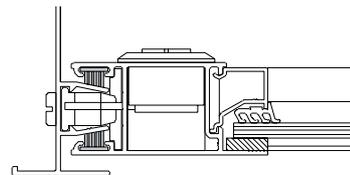


Aplicação

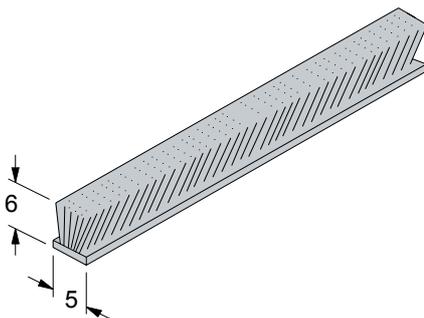
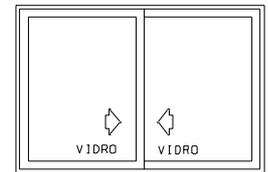


FIT-246

Fita vedadora sem barreira plástica
Acabamento: Preto
Embalagem: 50 metros

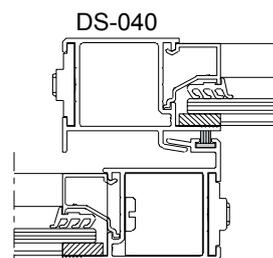


Aplicação

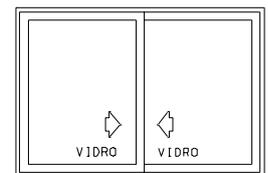


FIT-206

Fita vedadora sem barreira plástica
Acabamento: Preto
Embalagem: 50 metros

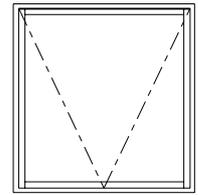
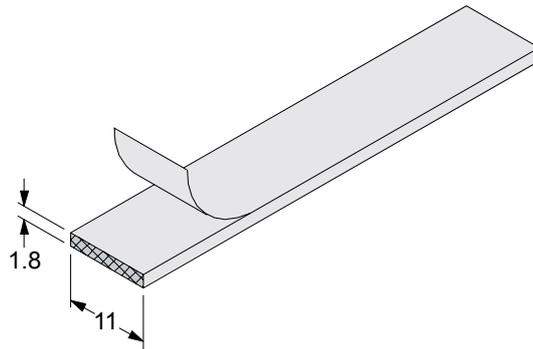


Aplicação



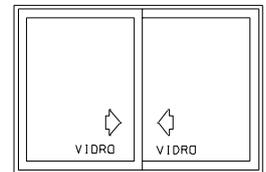
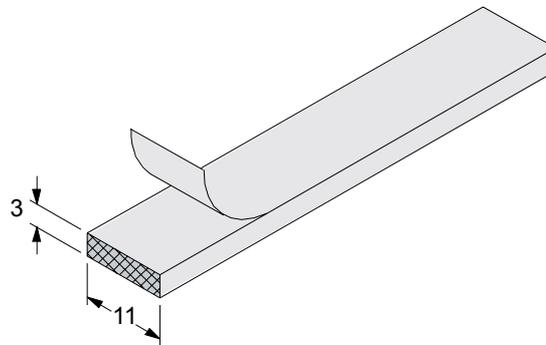
GUA-172

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 61 metros



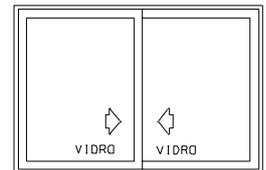
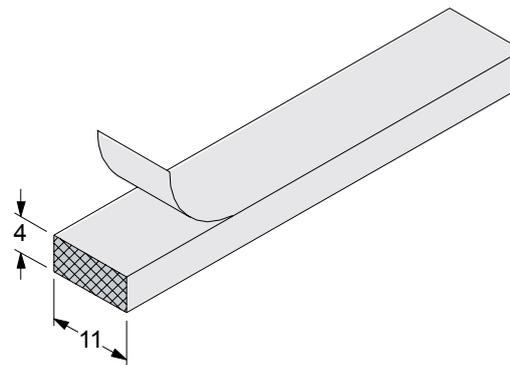
GUA-171

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 30 metros



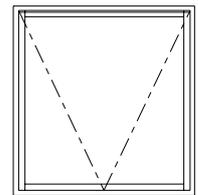
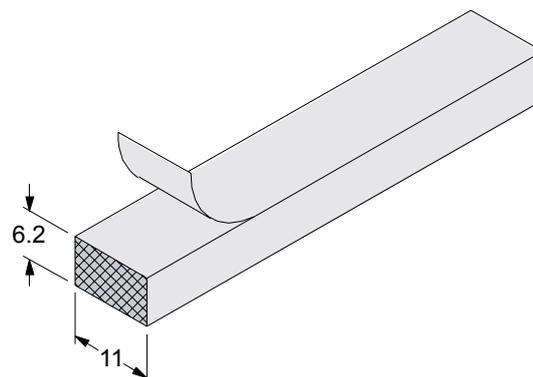
GUA-258

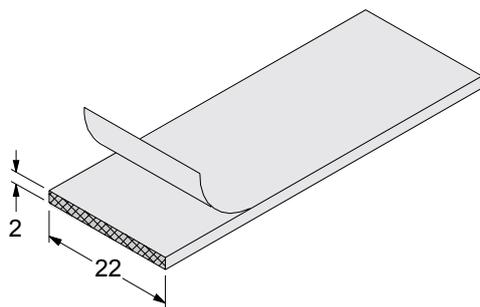
Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 10 metros



GUA-157

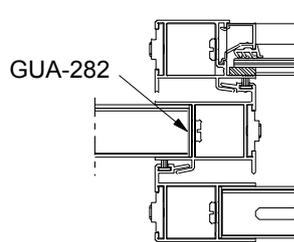
Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 10 metros



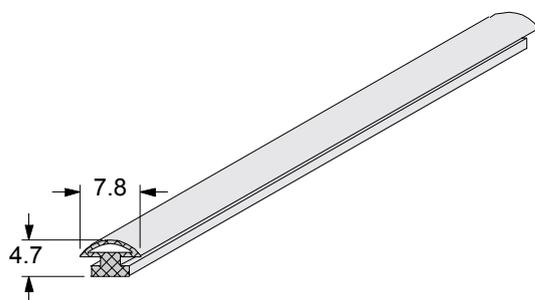
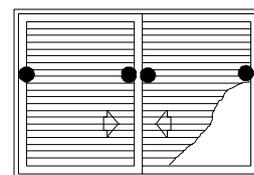


GUA-282

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 61 metros

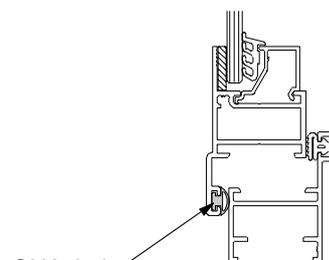


Aplicação

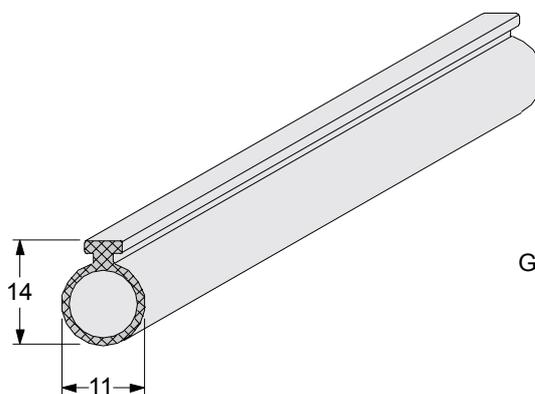
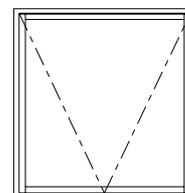


GUA-053

Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros

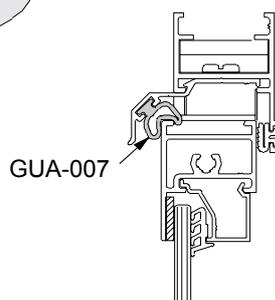


Aplicação

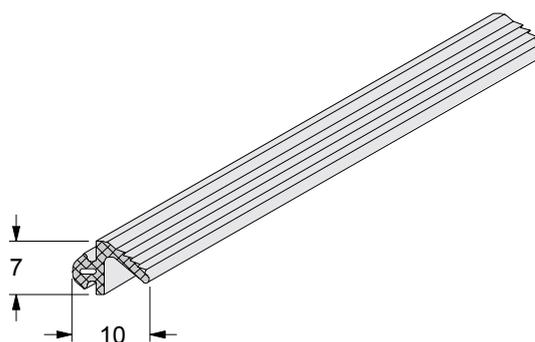
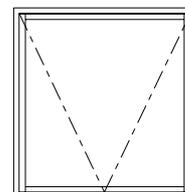


GUA-007

Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros

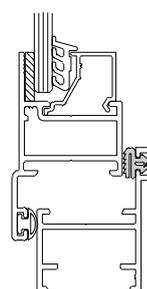


Aplicação

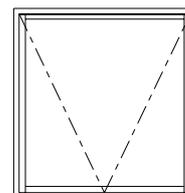


GUA-239

Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros

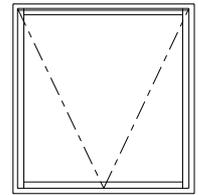
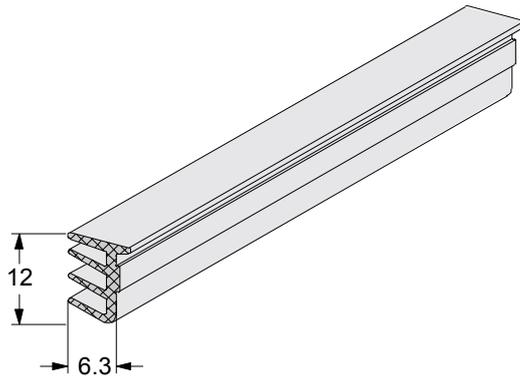


Aplicação



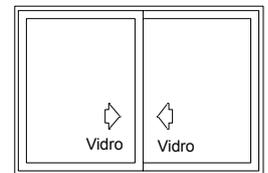
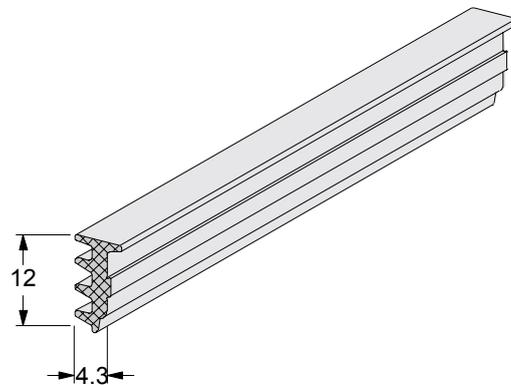
GUA-256

Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros



GUA-259

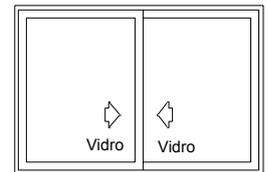
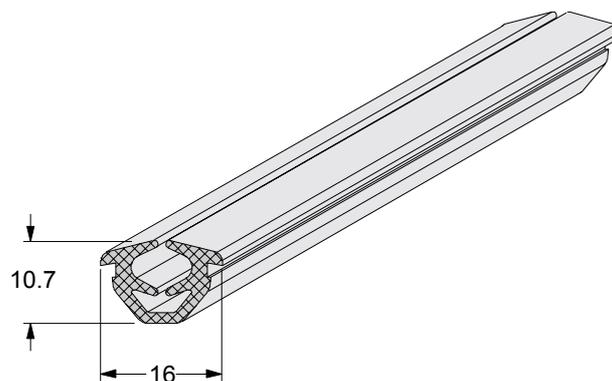
Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros



Para vidro 4 mm

GUA-284

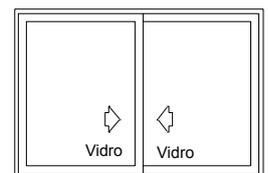
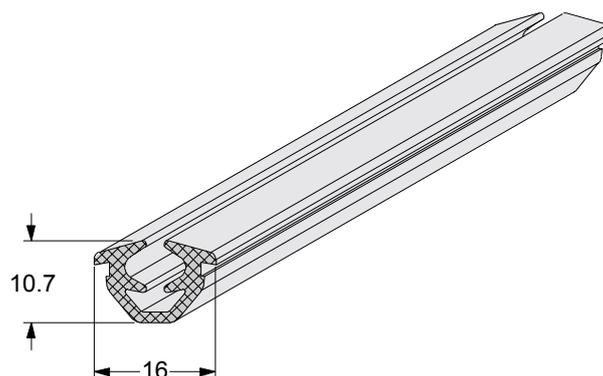
Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros

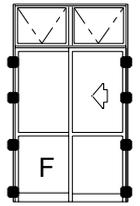
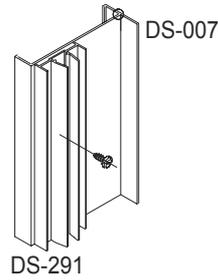
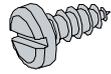


Para vidros 5 e 6 mm

GUA-283

Guarnição em EPDM
Acabamento: Preto
Embalagem: 50 metros

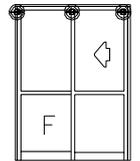
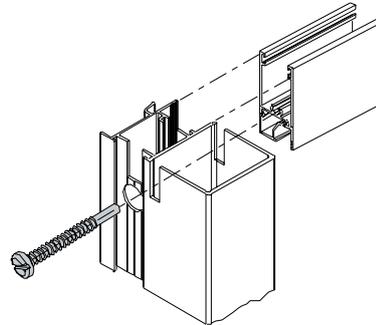
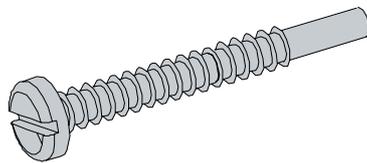




PAR-437

Parafuso 3.5 x 9.5 mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

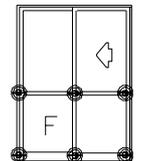
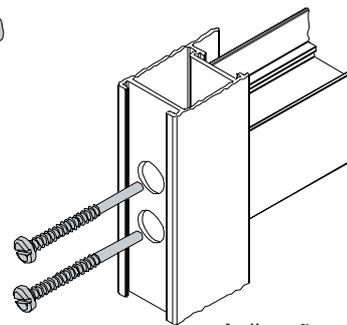
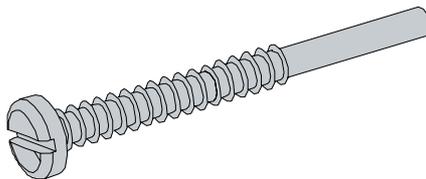
Aplicação



PAR-428

Parafuso 4.8 x 32 mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

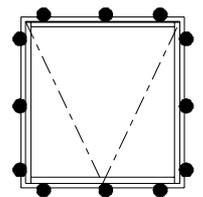
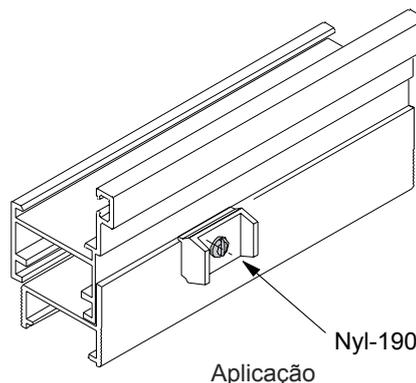
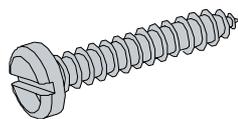
Aplicação



PAR-431

Parafuso 4.8 x 50 mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

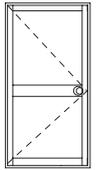
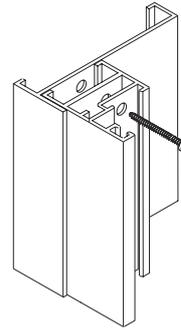
Aplicação



PAR-936

Parafuso 4.2 x 16 mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

Aplicação

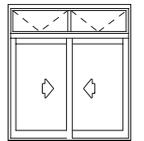
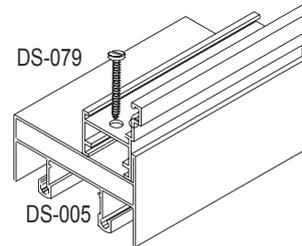
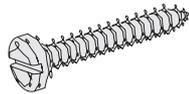


PAR-694

Parafuso 4.2 X 32mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

DS-279

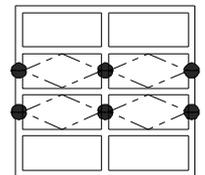
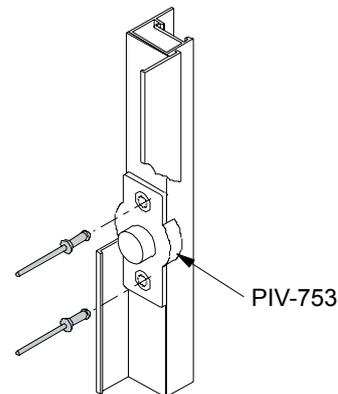
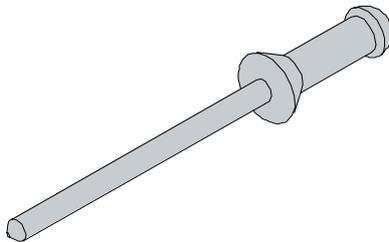
Aplicação



PAR-693

Parafuso 4.2 X 25mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

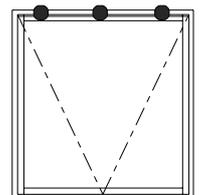
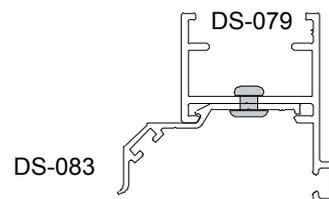
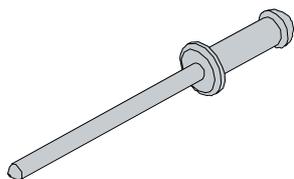
Aplicação



REB-115

Rebite de repuxo 4 x 10.2 mm
Acabamento: Alumínio preto
Embalagem: 1.000 peças

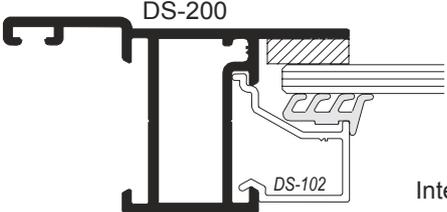
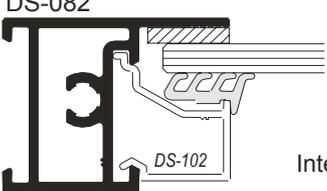
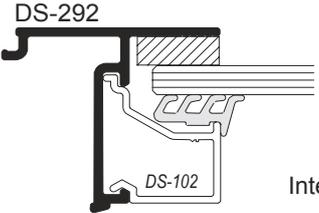
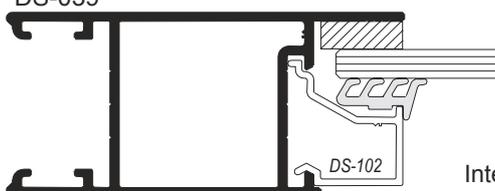
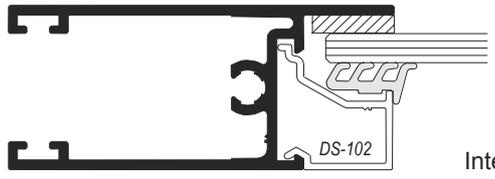
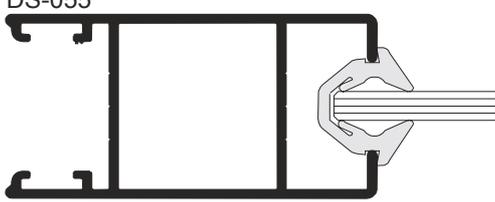
Aplicação



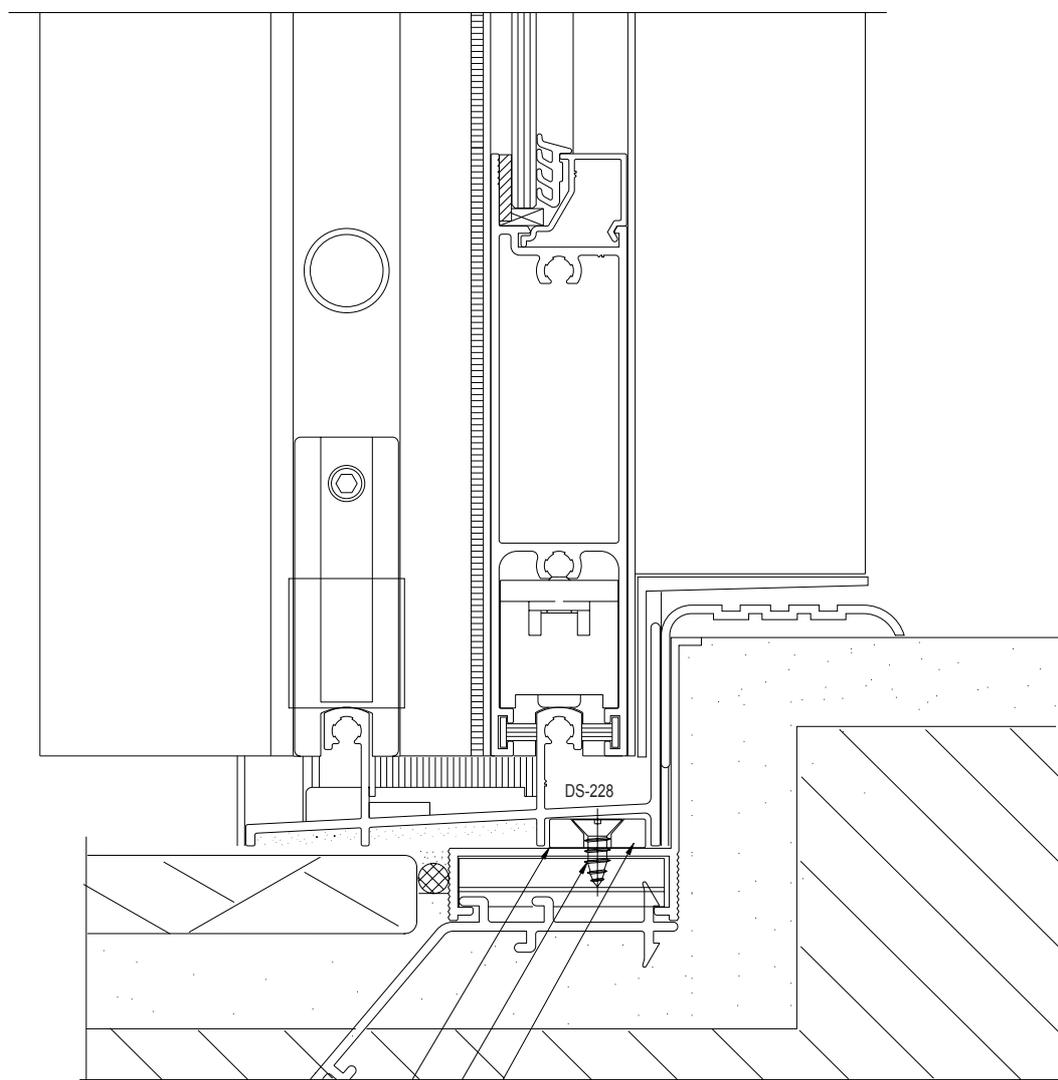
REB-117

Rebite de repuxo 3.2 x 10.2 mm
Acabamento: Alumínio
Embalagem: 1.000 peças

Aplicação

Detalhes		Espessura vidro	Guarnição interna	Guarnição externa
 <p>DS-200</p> <p>Externo</p> <p>Interno</p> <p>DS-102</p>	Externo	3	GUA-256	GUA-157
	Externo	4	GUA-256	GUA-157
	Interno	5	GUA-256	GUA-258
	Interno	6	GUA-259	GUA-157
 <p>DS-082</p> <p>Externo</p> <p>Interno</p> <p>DS-102</p>	Externo	3	GUA-256	GUA-258
	Externo	4	GUA-256	GUA-258
	Interno	5	GUA-256	GUA-171
	Interno	6	GUA-259	GUA-157
 <p>DS-292</p> <p>Externo</p> <p>Interno</p> <p>DS-102</p>	Externo	3	GUA-256	GUA-258
	Externo	4	GUA-256	GUA-258
	Interno	5	GUA-256	GUA-171
	Interno	6	GUA-259	GUA-171
 <p>DS-039</p> <p>Externo</p> <p>Interno</p> <p>DS-102</p>	Externo	4	GUA-256	GUA-157
	Externo	5	GUA-256	GUA-258
	Interno	6	GUA-259	GUA-258
 <p>DS-053</p> <p>Externo</p> <p>Interno</p> <p>DS-102</p>	Externo	4	GUA-256	GUA-258
	Externo	5	GUA-256	GUA-171
	Interno	6	GUA-259	GUA-171
 <p>DS-055</p>	Externo	4	GUA-284	
	Externo	5	GUA-283	
	Externo	6	GUA-283	

Detalhe de travamento do trilho da porta de correr para evitar a deflexão do trilho.

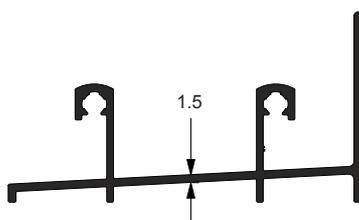


Calços em barra chata perfil BC-009 (4.76x15.8x40mm)

Parafuso cx. 4.8x13mm aço inox

Fixar os calços aplicando silicone na parte inferior

Trilho Suprema DS-228



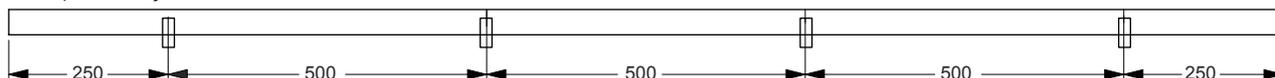
Módulo 2000 x 2000mm

Pressão de ensaio = 150 kg/m²

Pressão de sucção = 120 kg/m²

Parafuso diâmetro = 4.8mm aço inox

Exemplo de fixação do trilho





LINHA DS

Capítulo 6

Estampos/ Usinagens



ESTAMPO PNEUMÁTICO SPR-100 PREMIUM

É um produto que possui qualidade superior ao disponível no mercado e recursos exclusivos. Executa furações e recortes nos perfis de janelas e portas de correr e maxim-ar da Linha D'Alumínio Suprema DS. As estações de trabalho possuem proteção integrada para maior segurança de operação, números e imagens dos perfis em cada estação para facilitar a identificação do operador, uma base mais larga e robusta com um sistema de rolamento que permite que o cabeçote gire livremente sem enrolar as mangueiras. Além disso, é construído sobre placas 25mm de espessura (estabilidade e resistência).

ESTAMPO MANUAL SPR-050

Foi desenvolvido para o fabricante de esquadrias que busca rapidez e qualidade a baixo custo nas usinagens de janela e porta de correr da Linha D'Alumínio Suprema DS.

Ele conta com sistema de acionamento manual excêntrico patenteado, que gera força de trabalho de até 3 toneladas. O estampo manual SPR-050 tem acabamento empintura eletrostática e acompanha alavanca para acionamento e manual de operação.

Usina os perfis da linha suprema com ou sem baquetes dois e três planos, executa a furação 10 e 5mm e rasgo para passagem dos trilhos nas folhas de correr janelas e portas.



DS-006

Cx.dreno

55

DS-002
DS-006
DS-011
DS-025
DS-122
DS-228
DS-230
E SIMILARES

Obs. Para 55 mm estampar 2 vezes

DS-012

Ø 5

17

35

35

18

13,1
19,1
29,1

DS-007
DS-012
DS-013
DS-014
E SIMILARES

Obs. 2 ou 3 furos

DS-014

29,1
19,1

Ø 5

35

35

18

17
7,5

DS-003
DS-007
DS-012
DS-013
DS-014
E SIMILARES

Obs: 2 ou 3 furos

DS-014

29,1
19,1

Ø 5

35

35

18

17

DS-003
DS-007
DS-012
DS-013
DS-014
E SIMILARES

Obs.: 2 ou 3 furos

DS-013

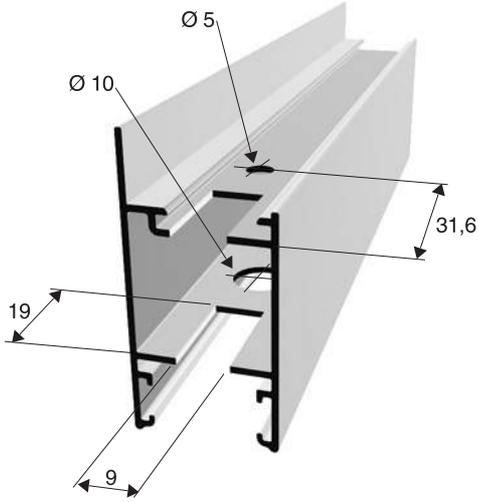
7,5
17

DS-291

12

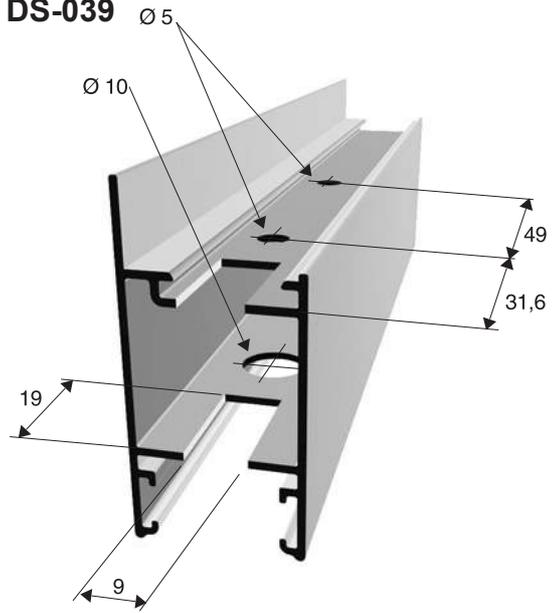
9

DS-039



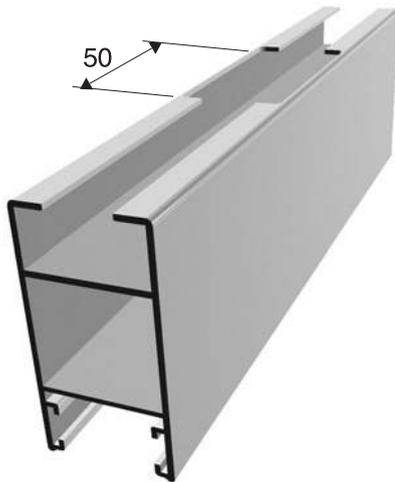
DS-039
DS-040
DS-041
DS-042
DS-044
DS-047
DS-049
DS-055
DS-056
DS-057
DS-058
DS-060
DS-061
E SIMILARES

DS-039



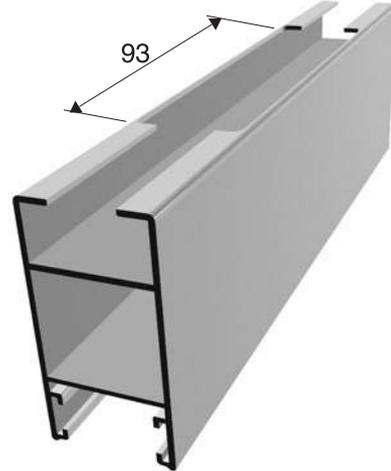
DS-039
DS-040
DS-041
DS-042
DS-044
DS-047
DS-049
DS-055
DS-056
DS-057
DS-058
DS-060
DS-061
E SIMILARES

DS-055



DS-055
DS-056
DS-057
DS-060
DS-061
DS-239
E SIMILARES

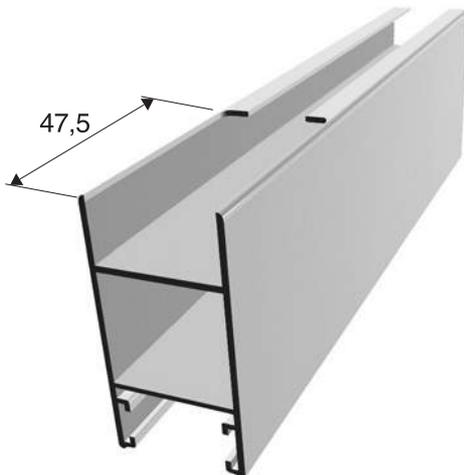
DS-055



Obs.: Para 93 mm estampar 2 vezes

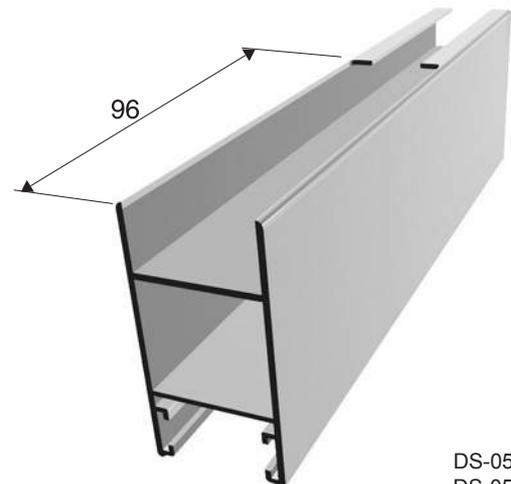
DS-055
DS-056
DS-057
DS-060
DS-061
DS-239
SIMILARES

DS-055



DS-056
DS-057
DS-060
DS-061
E SIMILARES

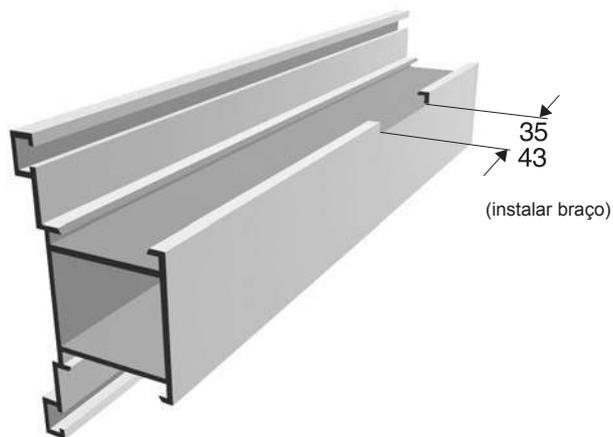
DS-055



Obs.: Para 96 mm estampar 2 vezes

DS-056
DS-057
DS-060
DS-061
E SIMILARES

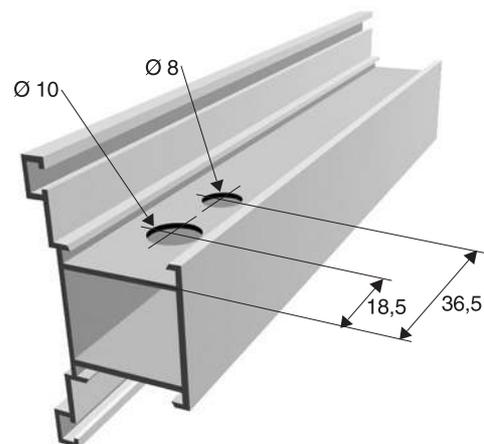
DS-085



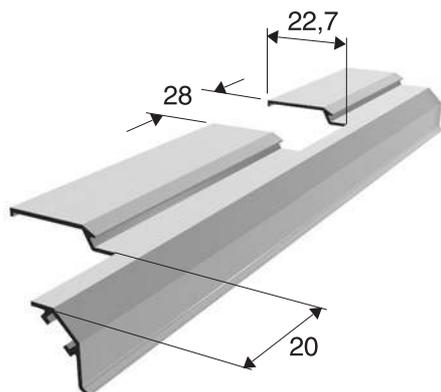
Obs. Para 43mm (estampar 2 vezes)

DS-079
DS-085
DS-086

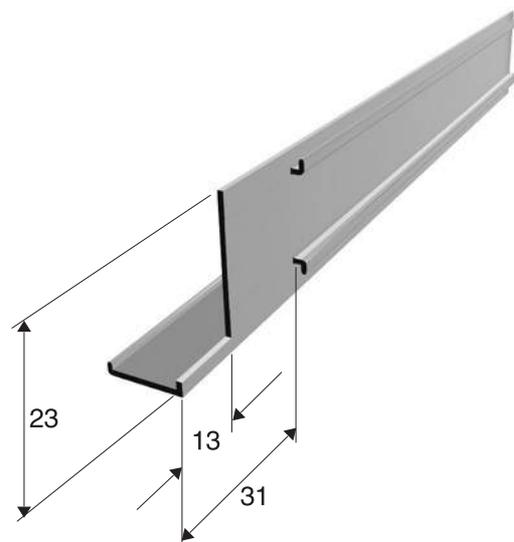
DS-085



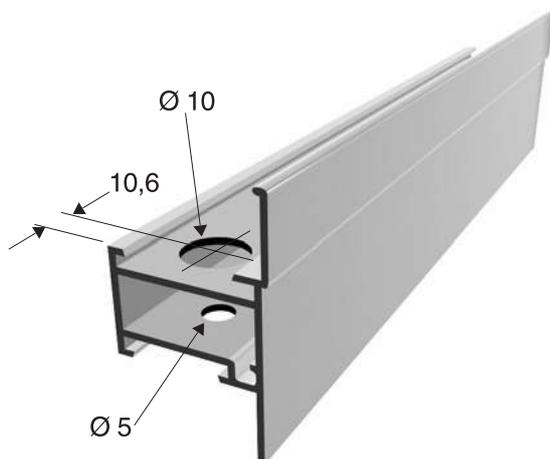
DS-276



DS-084

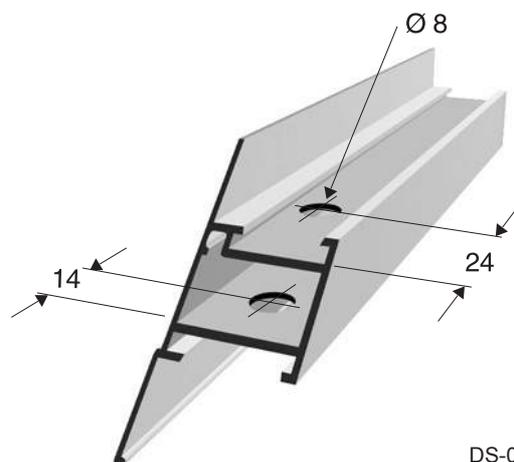


DS-081



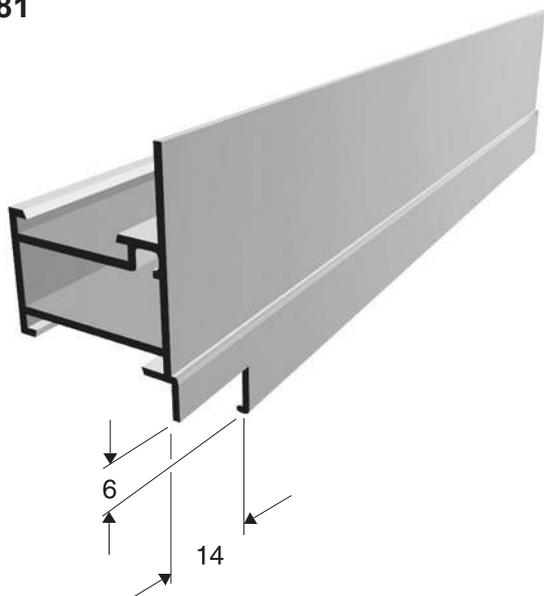
DS-081
E SIMILARES

DS-081

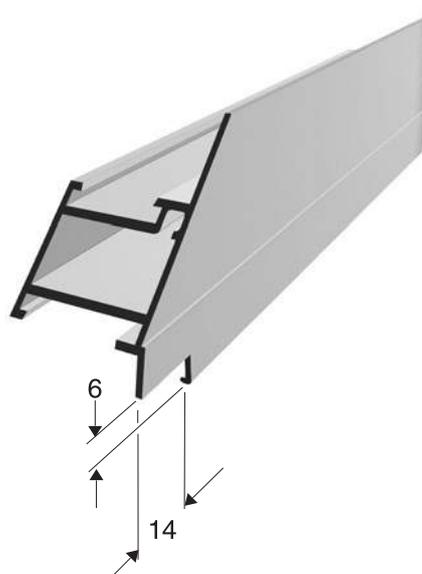


DS-080
DS-081
DS-200
E SIMILARES

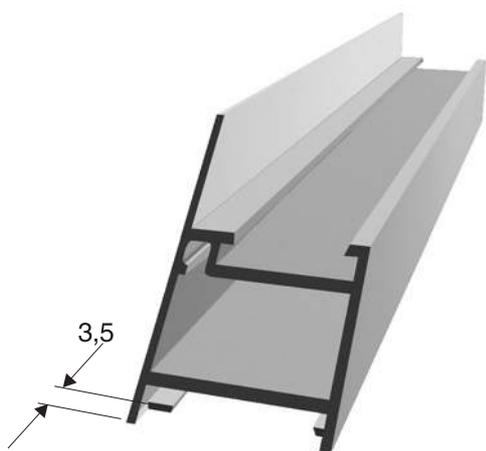
DS-081



DS-081



DS-080



Obs.: Somente na travessa superior 45°



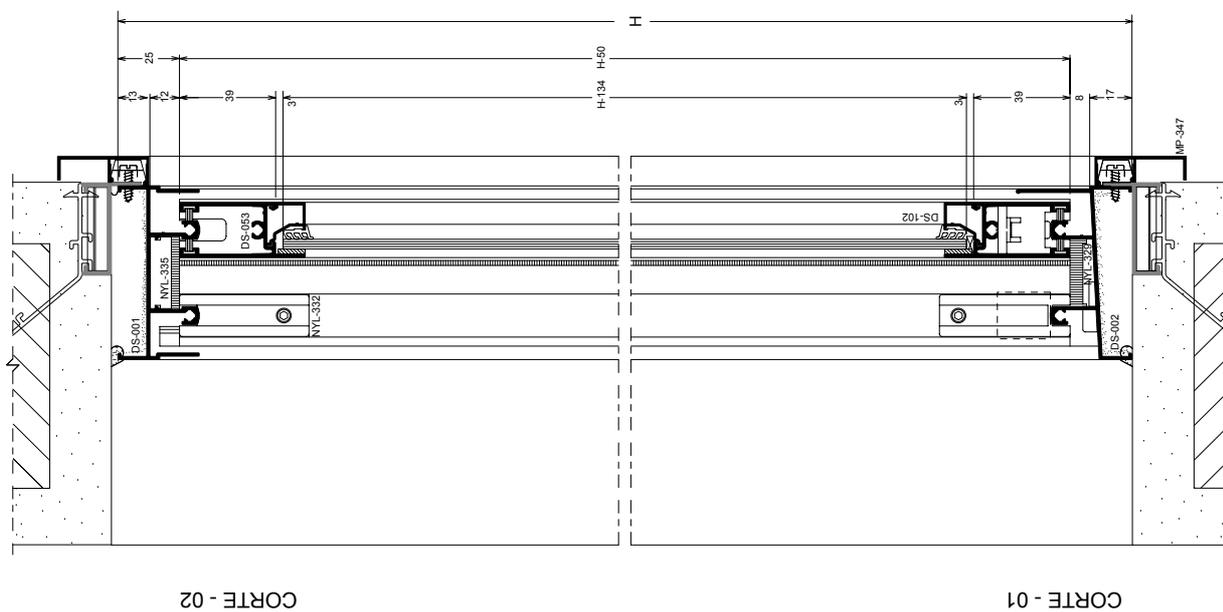
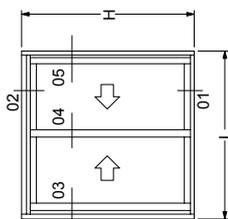
LINHA DS

Capítulo 7

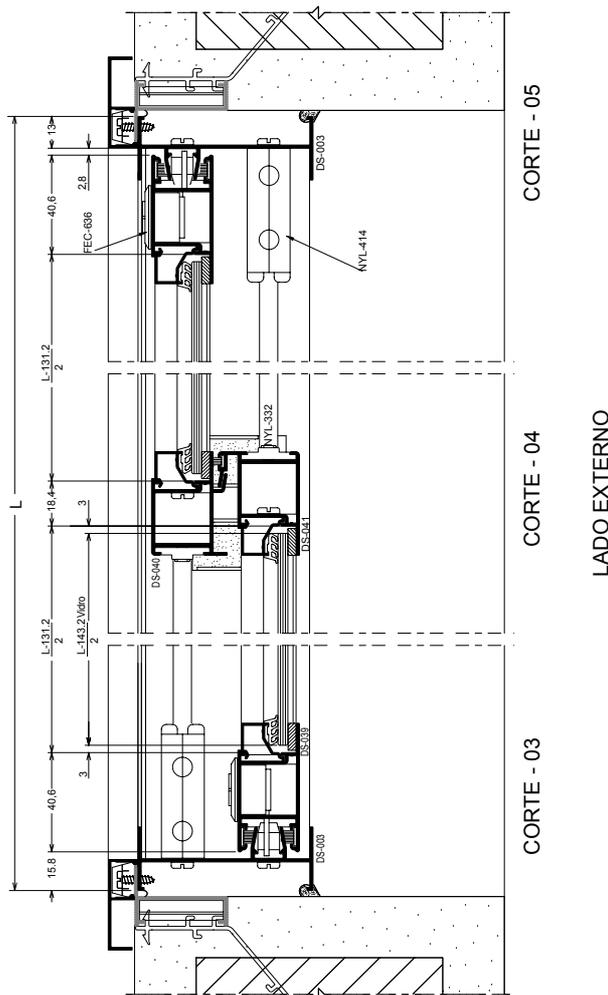
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DSP JCR 200A	Janela de correr 2 folhas	106
DSP JCR 300	Janela de correr 3 folhas	107
DSP JCR 400	Janela de correr 4 folhas	108
DSP JCR 400A	Janela de correr 4 folhas	109
DSP JCR 205	Janela de correr 2 folhas com bandeira móvel	110
DSP JCR 402	Janela de correr 4 folhas com peitoril fixo	111
DSP JCR 402A	Janela de correr 4 folhas com peitoril fixo	112
DSP JVZ 300	Janela de correr 2 folhas com veneziana	113
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DSP MAX 800	Janela maximar 1 folha	125
DSP MAX 801	Janela maximar 2 folhas com peitoril fixo	126

ELEVAÇÃO VISTA EXTERNA



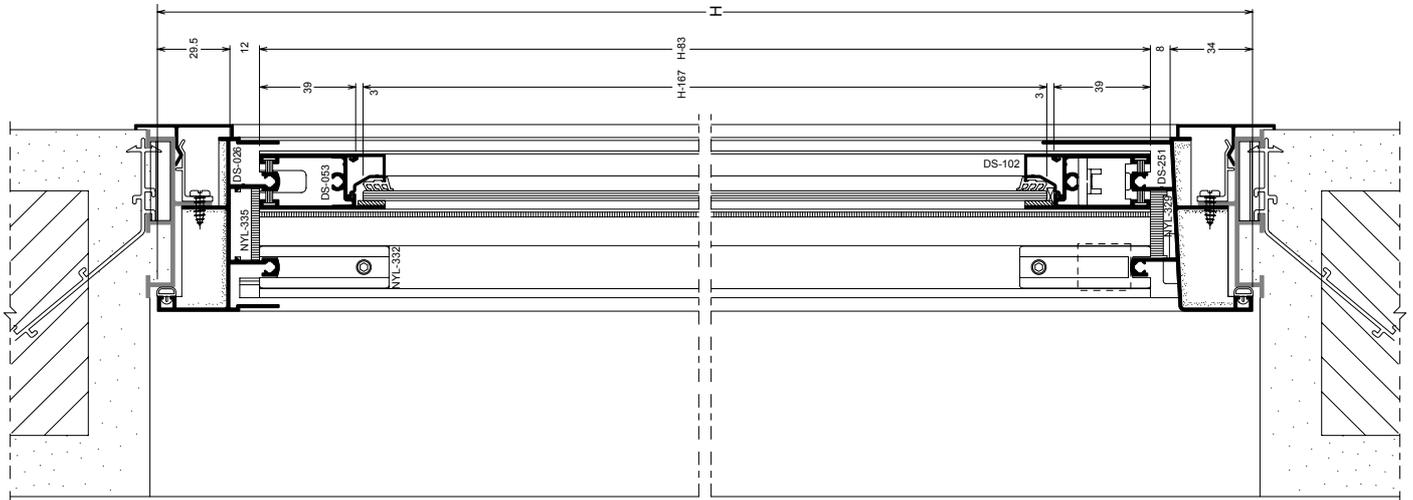
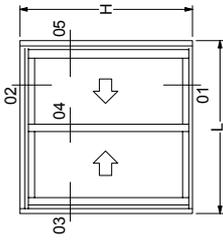
LADO EXTERNO



LADO EXTERNO

DSP JCR 200

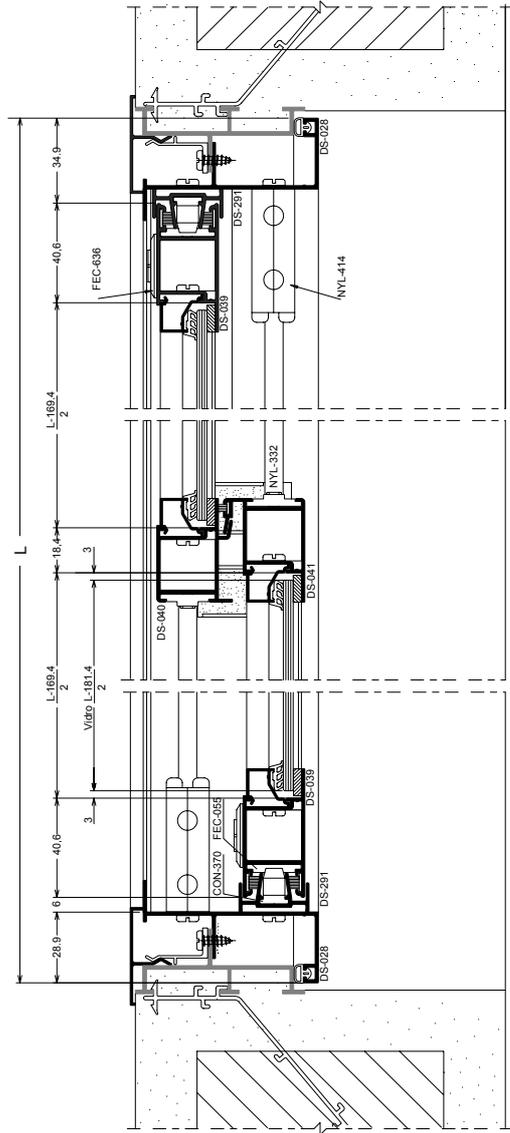
ELEVAÇÃO VISTA EXTERNA



CORTE - 02

CORTE - 01

LADO EXTERNO



CORTE - 03

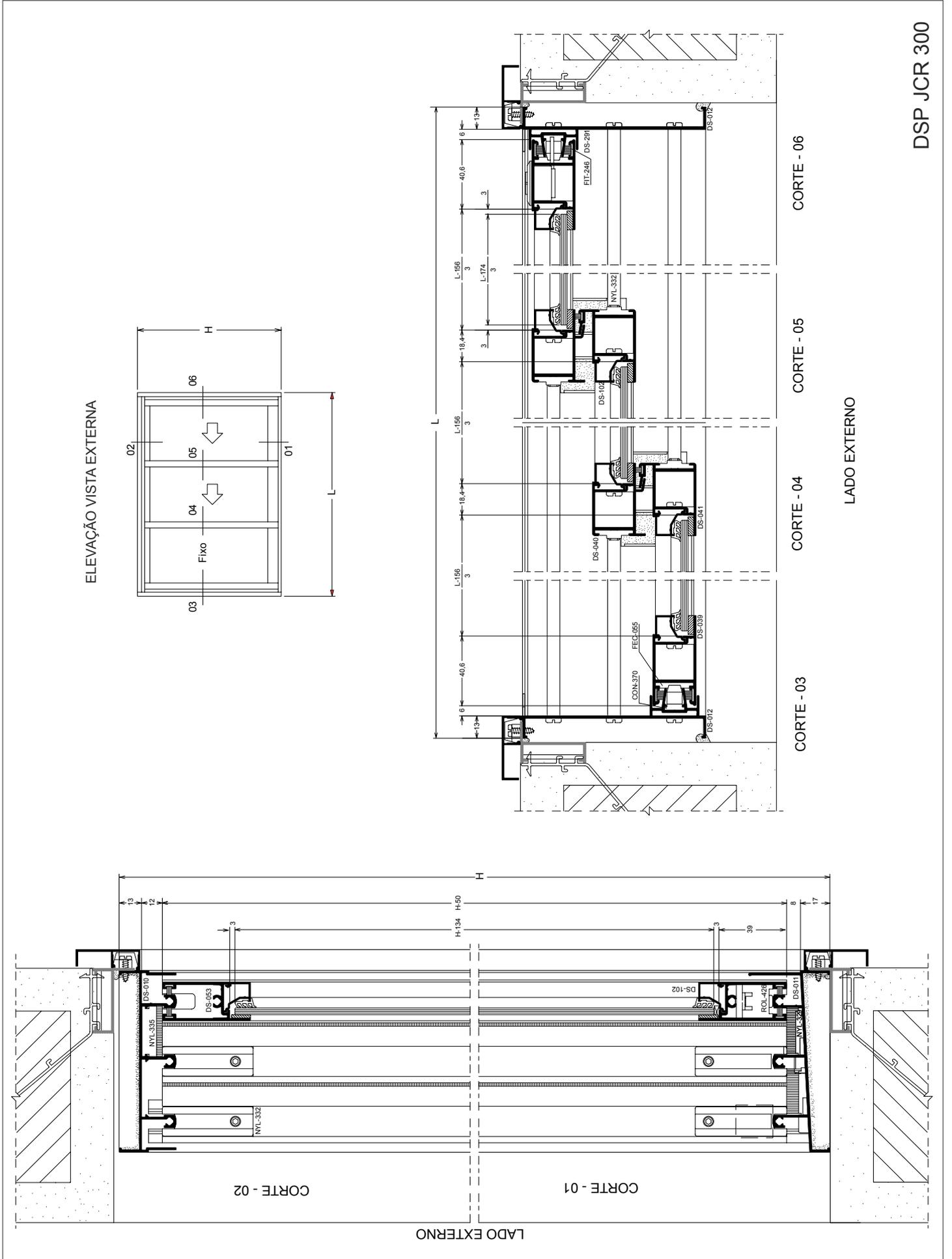
CORTE - 04

CORTE - 05

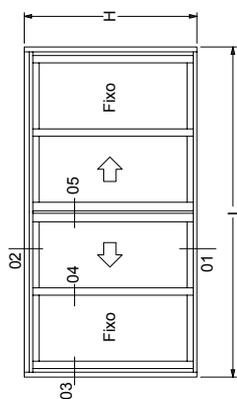
LADO EXTERNO

DSP JCR 200A

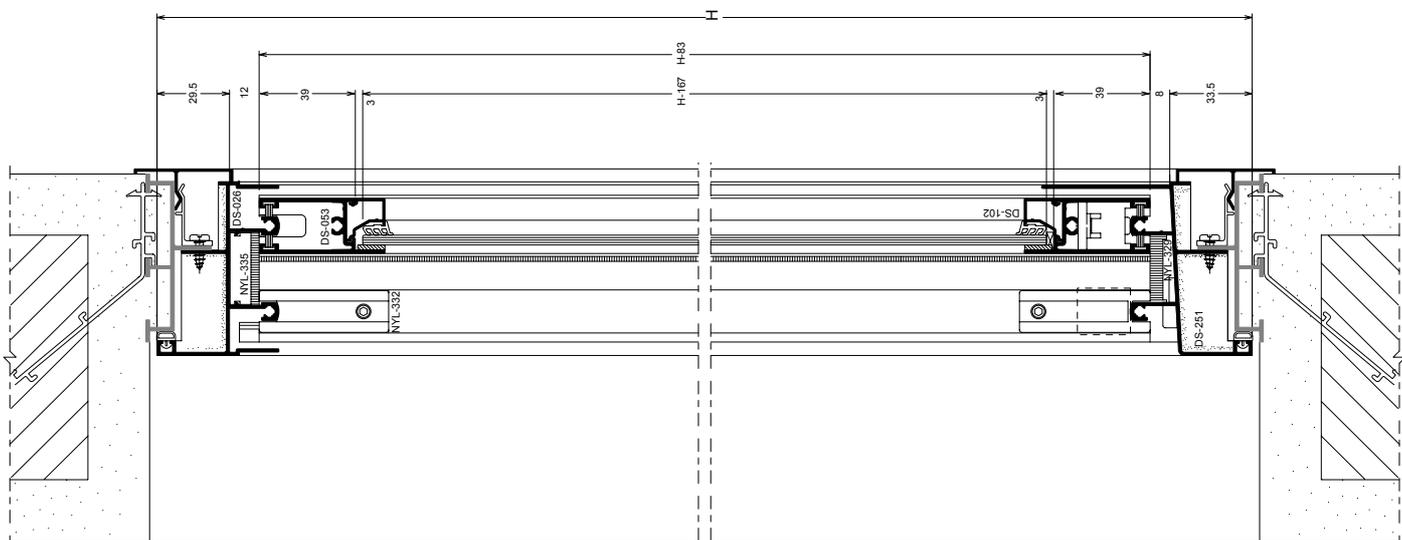
Janela de correr 3 folhas



ELEVAÇÃO VISTA EXTERNA

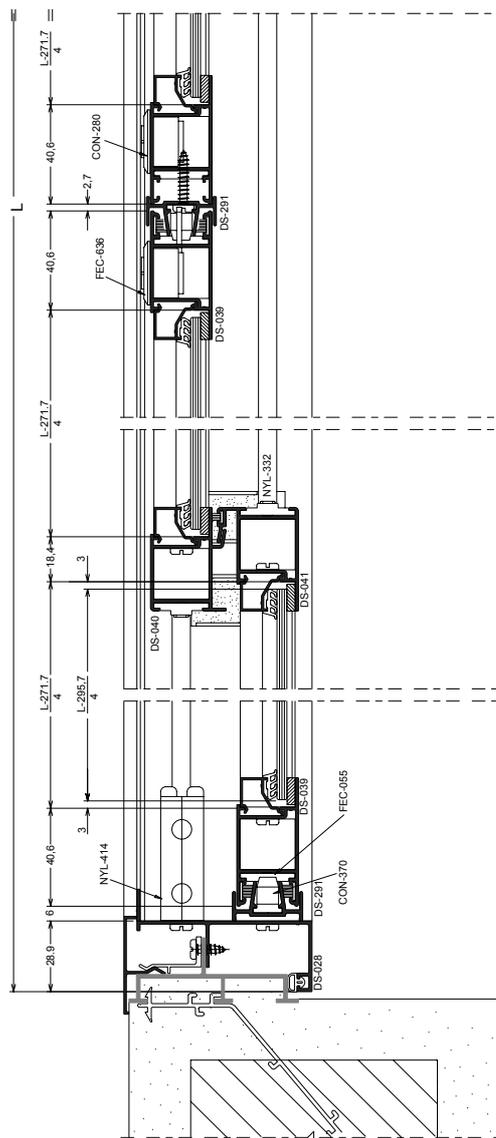


LADO EXTERNO



CORTE - 02

CORTE - 01



CORTE - 03

CORTE - 04

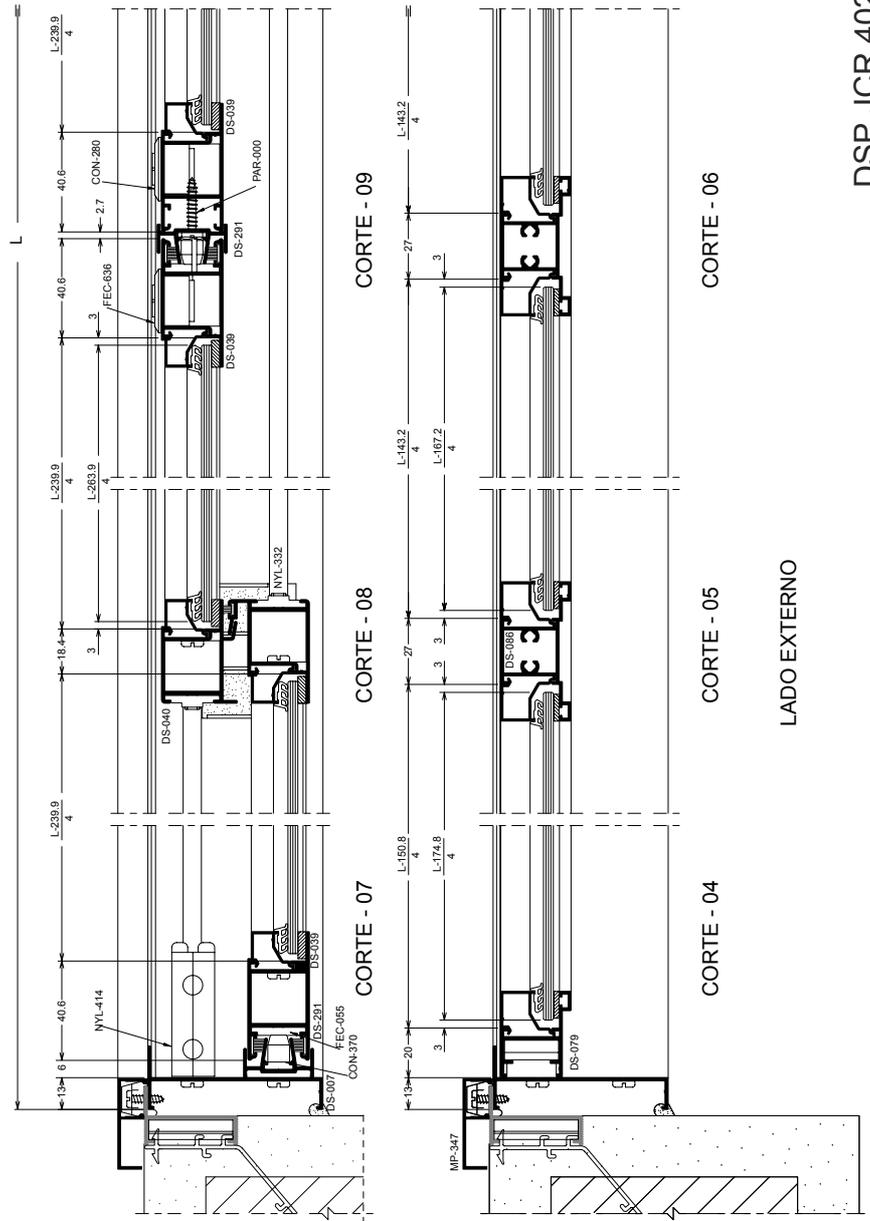
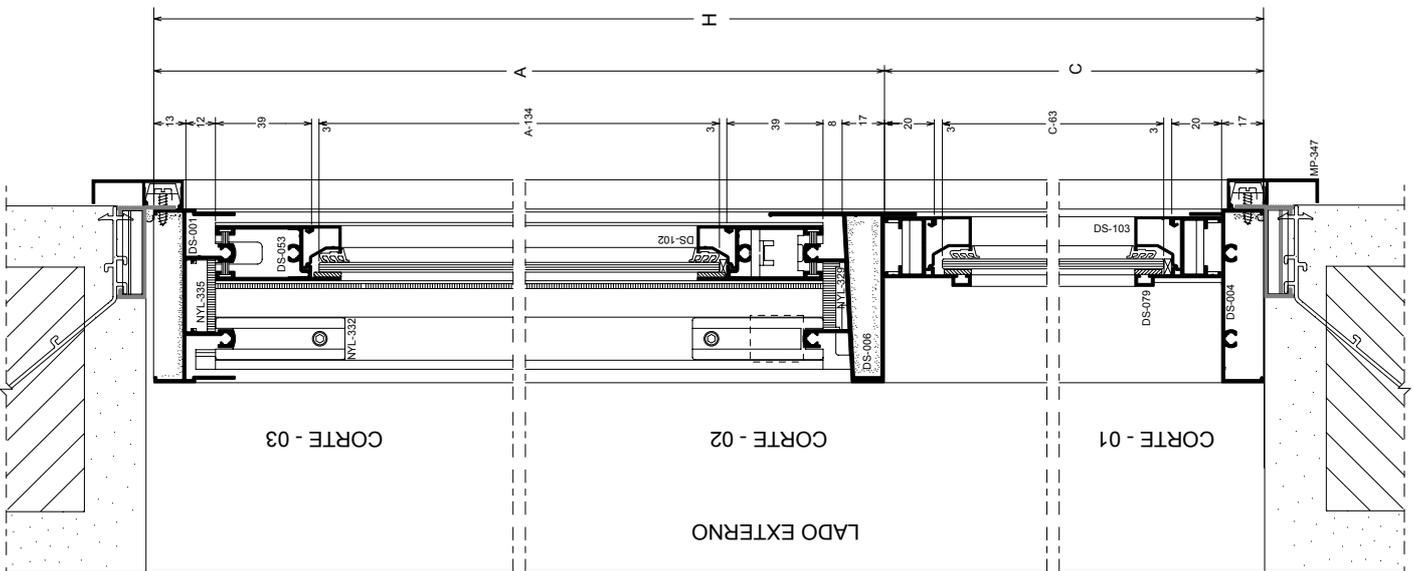
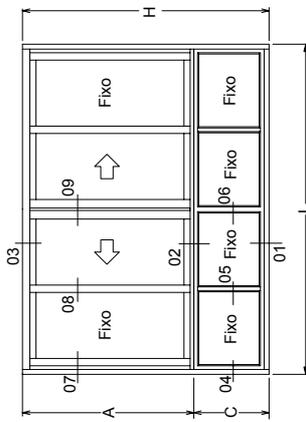
CORTE - 05

LADO EXTERNO

DSP JCR 400

Janela de correr 4 folhas com peitoril fixo

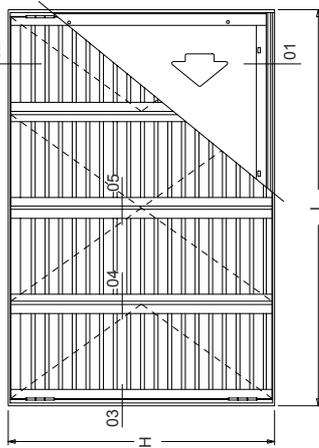
ELEVAÇÃO VISTA EXTERNA



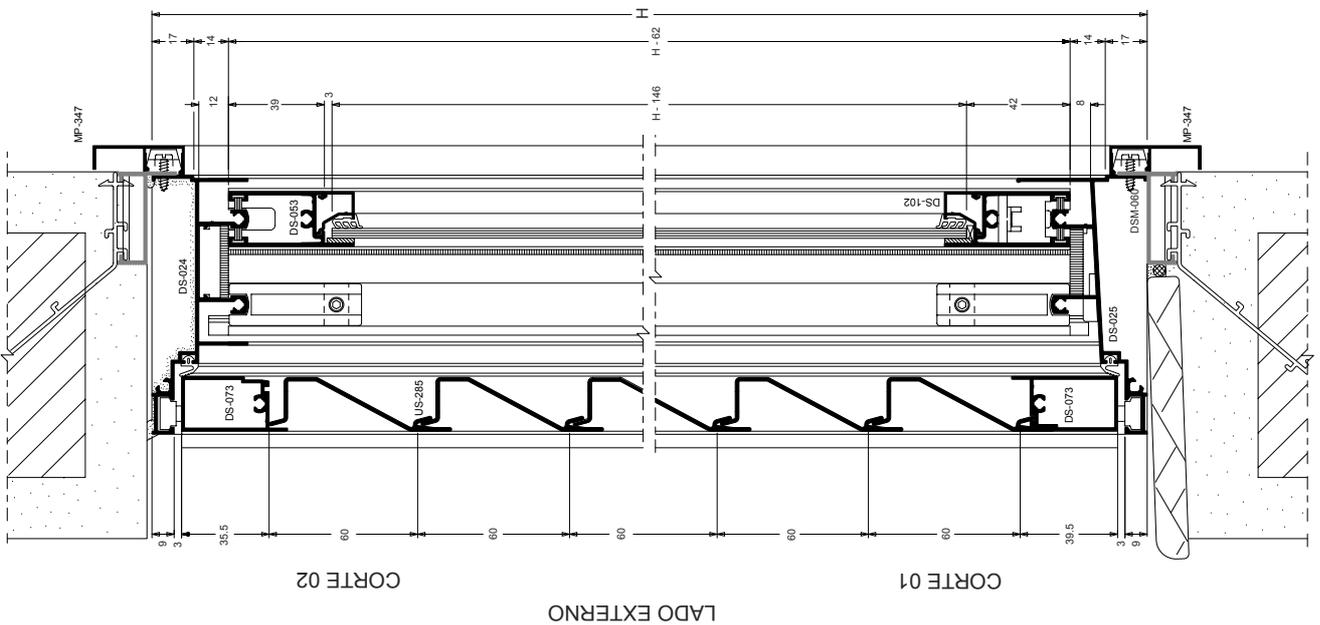
DSP JCR 402

Janela de correr 4 folhas com veneziana camarão

ELEVAÇÃO VISTA EXTERNA



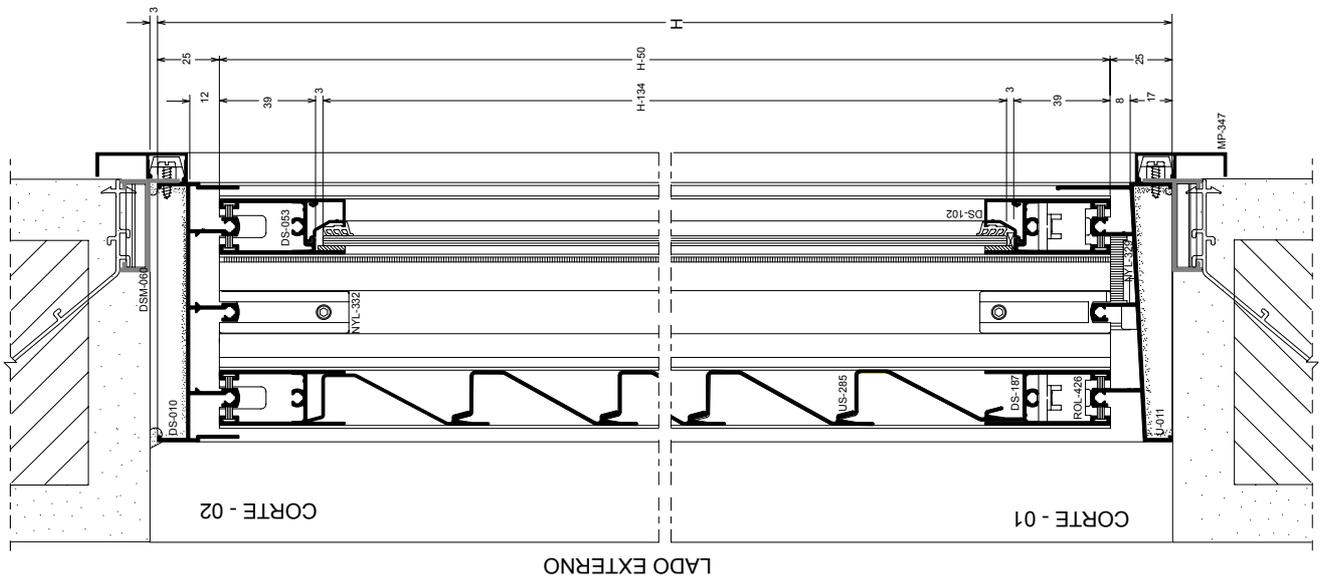
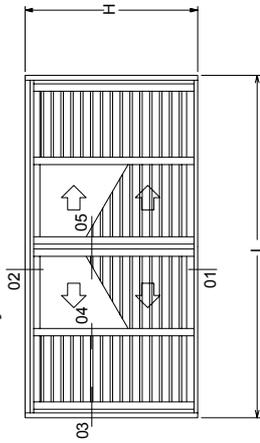
DIMENSÕES RECOMENDADAS PARA PALFETAS INTERIAS		
ALTURA DA JANELA (H)	QUANTIDADE DE PALFETAS INTERIAS	
899	15	
1059	16	
1119	17	
1179	18	
1239	19	
1289	20	



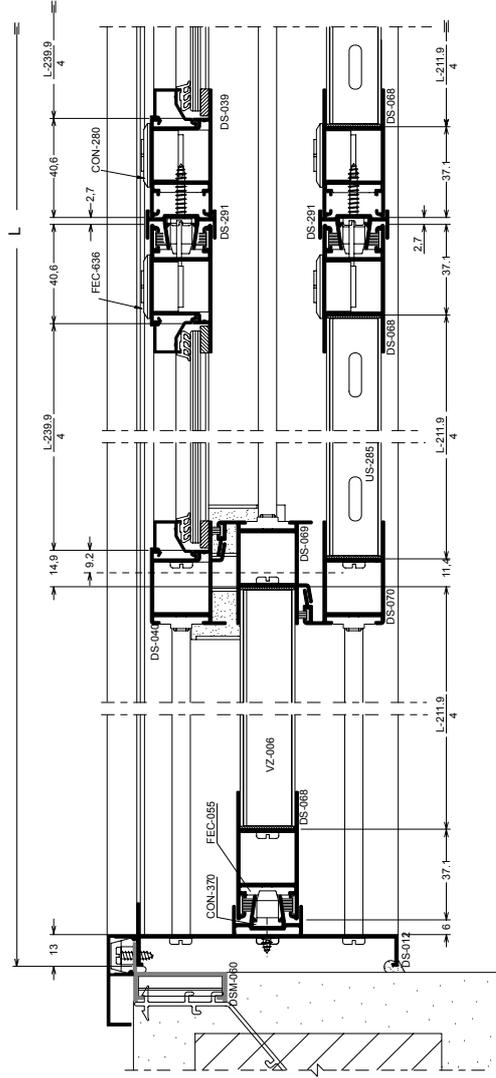
DSP JVC 701

Janela de correr 4 folhas com veneziana

ELEVAÇÃO VISTA EXTERNA

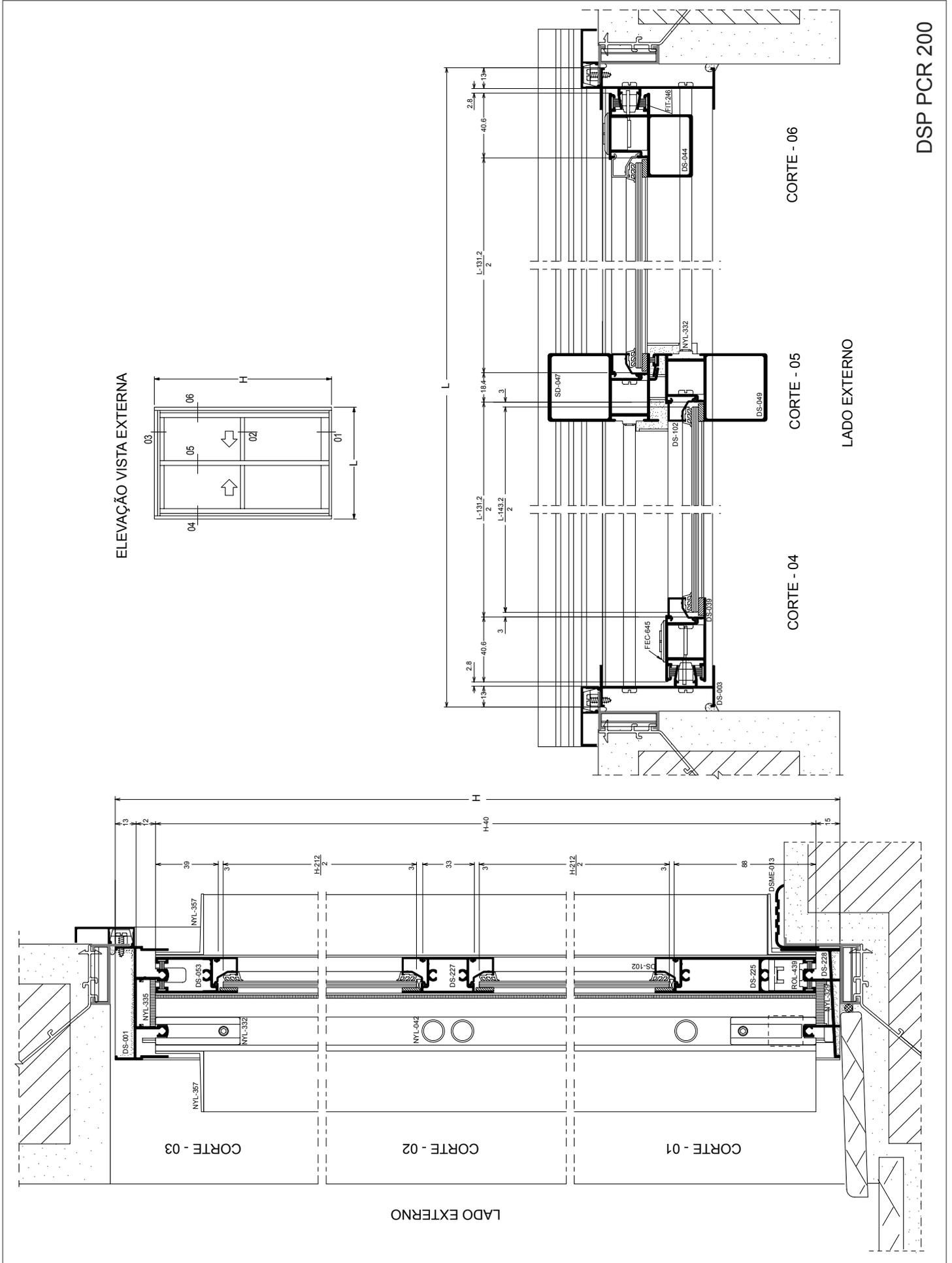


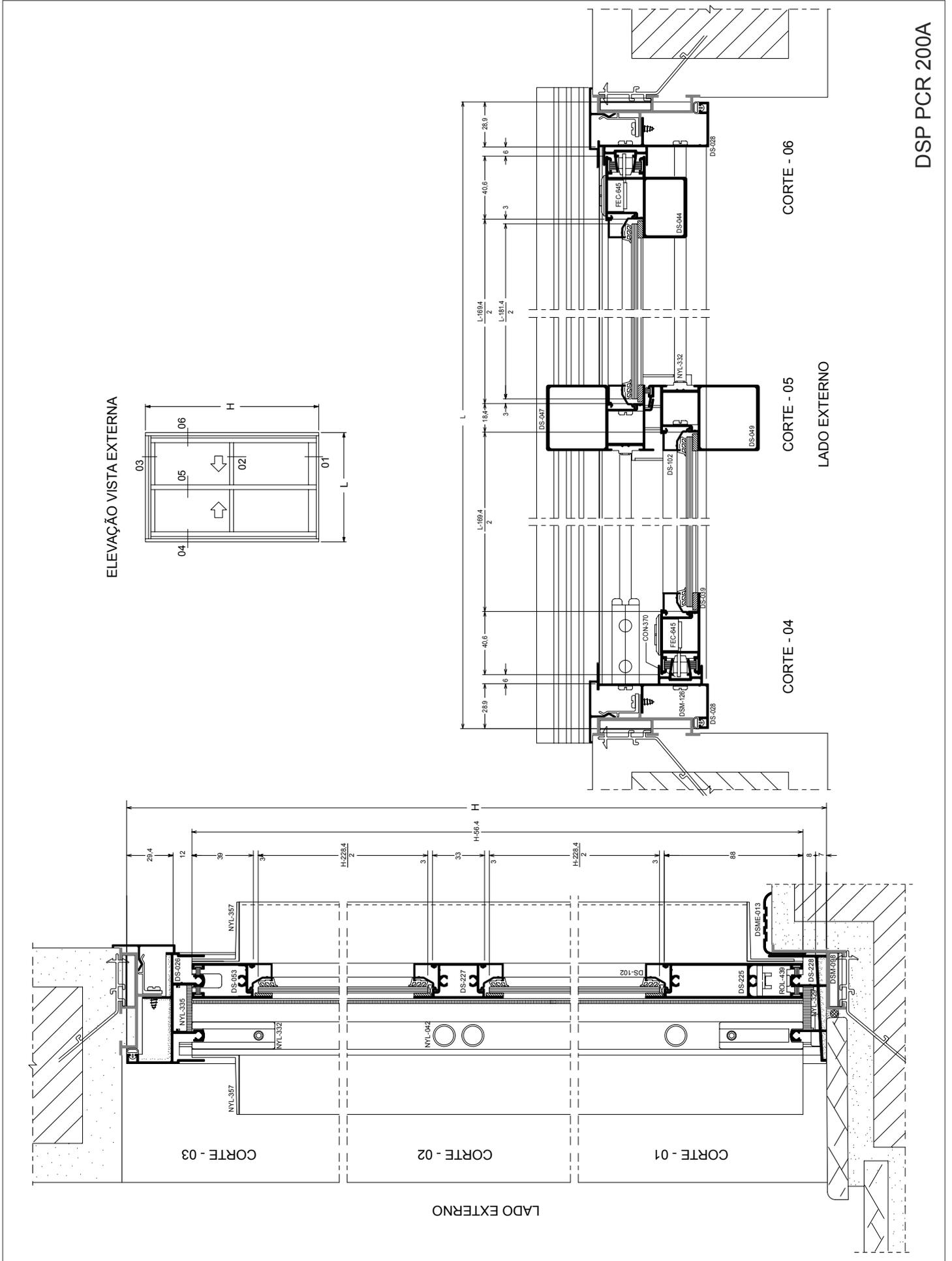
LADO EXTERNO

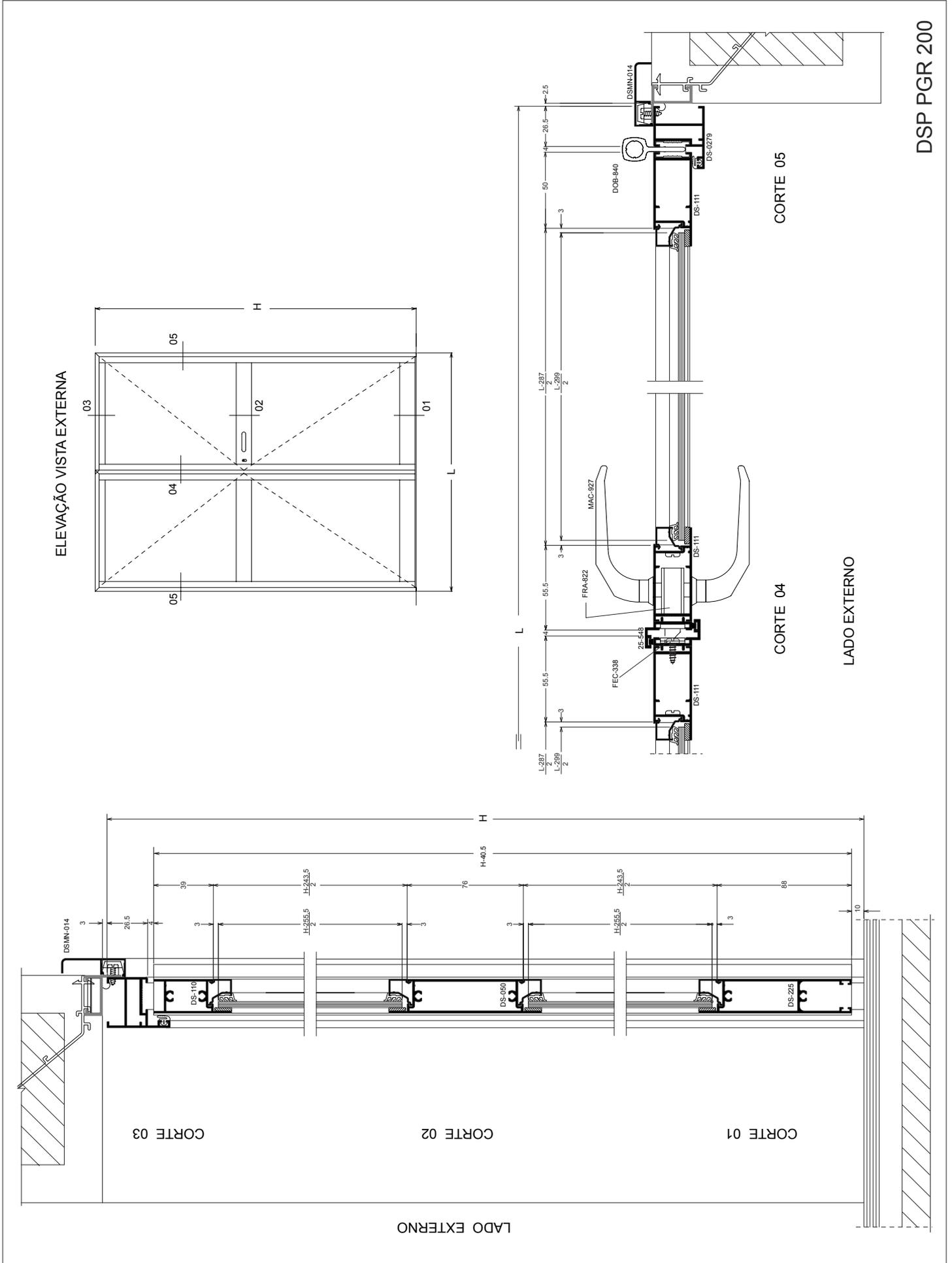


CORTE - 04
LADO EXTERNO

CORTE - 05
DSP JVZ 600







ELEVAÇÃO VISTA EXTERNA

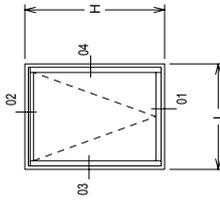


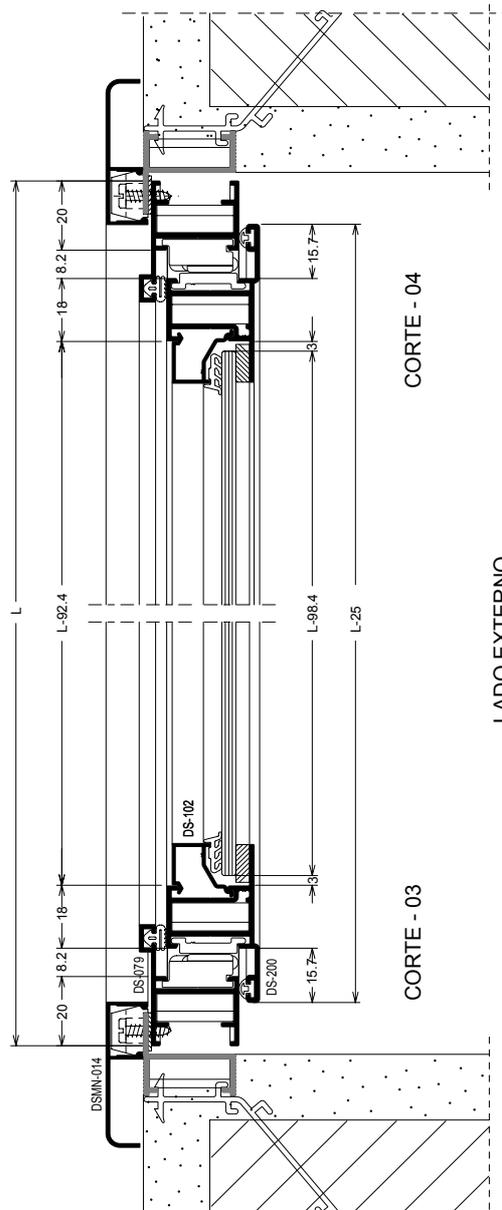
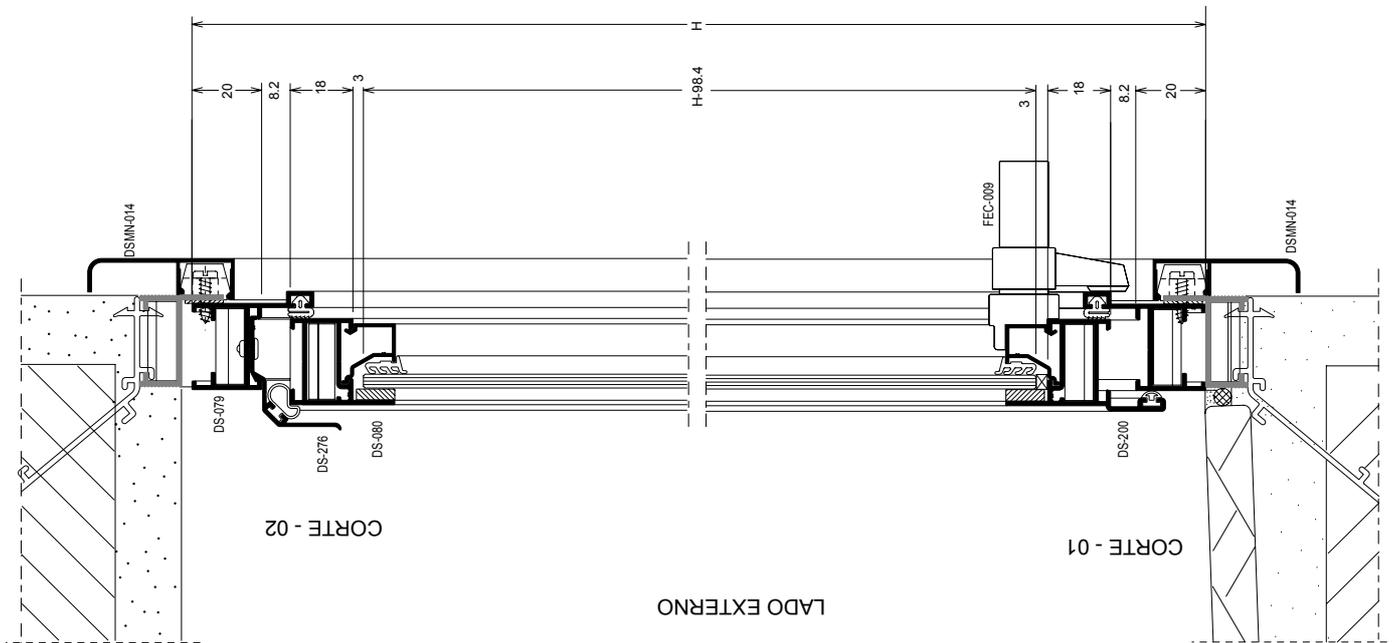
TABELA DE BRAÇOS MAXIMAR

Código	Dimensões (mm)		Altura da folha (mm)	
	(A)		Mínimo	Máximo
BRA-785	250		270	500
BRA-782	500		510	760
BRA-783	750		770	900

Braço reforçado

Código	Dimensões (mm)		Altura da folha (mm)	
	(A)		Mínimo	Máximo
BRA-786	810		900	1200

Espessura máxima de vidro = 6 mm



DSP MAX 800

D'Alumínio

SOLUÇÕES EM ALUMÍNIO E COMPONENTES

ESCRITÓRIO COMERCIAL

FILIAL PORTO VELHO

Av. José Vieira Caúla, 4651
Flodoaldo Pontes Pinto | Porto Velho - RO
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