

Catálogo Técnico



Perfeita para seus projetos mais importantes.



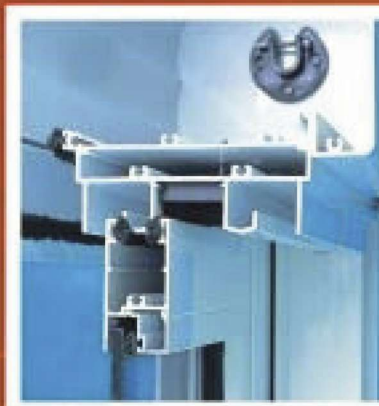


Janelas e portas de alumínio com desempenho superior.

Perfis

Componentes

Envidraçamento



Roldanas

Batedeira

Os perfis de alumínio que compõem a Linha III Gold são extrudados pela Alcoa na liga 6060-T5. Sua espessura garante um comportamento estrutural adequado e precisão dimensional. Podem receber anodização ou pintura eletrostática a pó, que garante longa vida útil às esquadrias e confere um diferencial estético ao projeto.



Fechos

- Guias de nylon para deslizamento suave e preciso
- Folhas com travas externas de segurança
- Fitas vedadoras com barreira de proteção
- Caixa de dreno no trilho inferior e vedador no trilho superior

Permite a utilização de vidros laminados - com até 20 mm de espessura - ou vidros duplos, que reduzem a transmissão de calor e ruído.

- Batedeiras em nylon

Os componentes especialmente desenvolvidos para a Linha III Gold constituem-se em um importante diferencial desse produto. Entre eles podemos destacar:

- Roldanas duplas com rolamentos blindados
- Opções de fecho: tipo concha, com ou sem chave

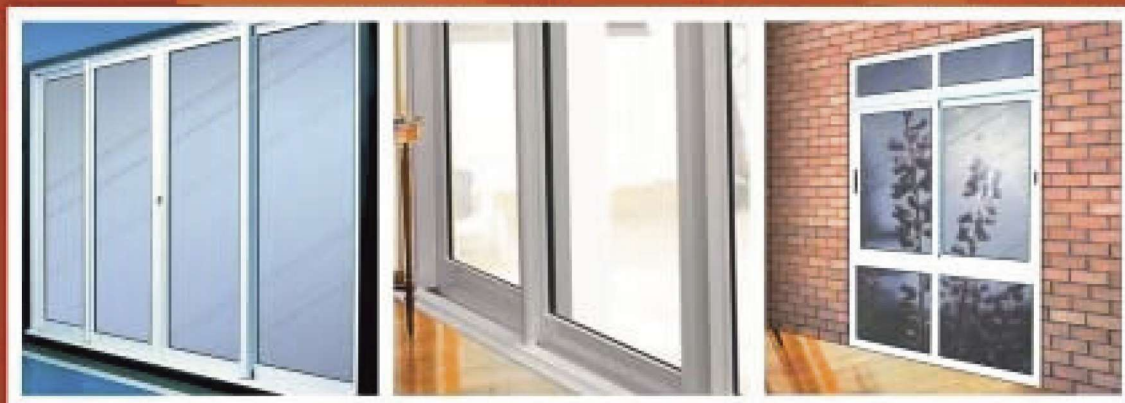


Perfeita para grandes vãos.

Acabamento

Design

Desempenho



A Linha III Gold possui conexões parafusadas, com cortes a 90 graus, o que proporciona encaixes perfeitos entre os elementos verticais e os horizontais. Além disso, estampas pneumáticas especialmente desenvolvidos pela Alcoa garantem usinagens perfeitas e acabamento impecável, com alto índice de produtividade.

O design é sem dúvida um dos grandes atributos da Linha III Gold e um dos principais responsáveis pela sua aceitação no mercado. Seus perfis com cantos arredondados propiciam um aspecto agradável, harmonioso e moderno ao conjunto. Projetada para grandes vãos, oferece maior liberdade construtiva e valoriza a criatividade do arquiteto.

A Linha III Gold atende a todas as exigências das Normas Brasileiras, apresentando excelente estanqueidade ao ar e à água e isolamento termo-acústico.



As persianas externas de enrolar tanto das janelas como das portas têm acionamento manual ou motorizado - controle remoto ou interruptor.

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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

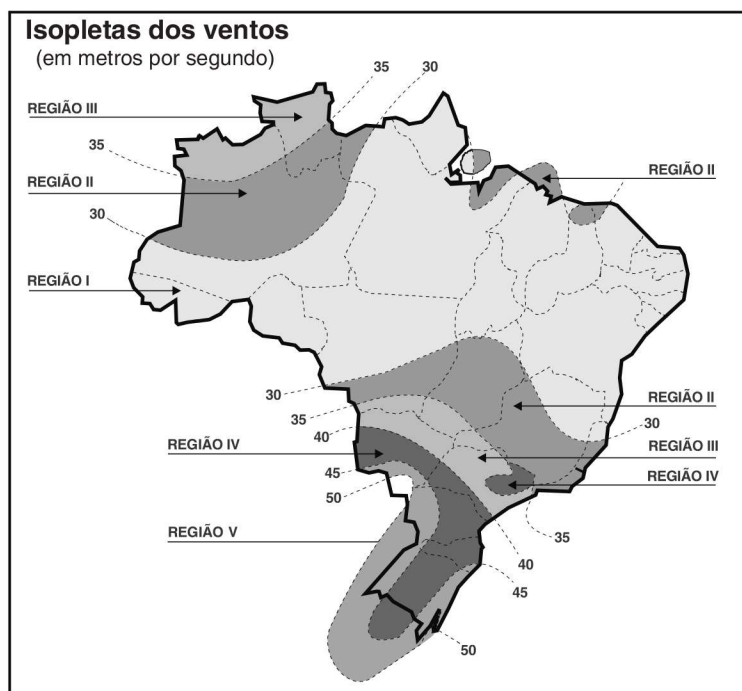


Tabela 1

Pressão de ensaio de cargas uniformemente distribuídas.

Classe	Região do País	Pressão de projeto P_{pe} em Pa	Pressão de sucção, em Pa, $P_{s0,8}$	Pressão de ensaio $P_e = P_{pe} \times 1,5$ 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 - $P_p \times 0,15$, 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: $0,15 \times P_p$ (pressão de projeto das cargas de vento) e os valores das pressões da classe Melhorada.
Arquiteturas especiais (Shopping, indústrias, hospitais, etc.) Excepcional	Todas as regiões	Pressões de ensaio = o maior dos dois valores: $0,15 \times P_p$ (pressão de projeto das cargas de vento) e os valores das pressões da classe Melhorada.

Tabela 3

Fator topográfico de correção S_1

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

Tabela 4

Fator de Correção S_2

Rugosidade do terreno, dimensões da edificação e altura acima do terreno.

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

Fator Probabilístico $S_3 = 0,88$

EXEMPLO SIMPLIFICADO DE PRESSÃO DE ENSAIO NA CLASSE REFORÇADA.

P = Pressão de Ensaio

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

onde:

P = Pressão de Ensaio (Pa)

q = Pressão de Obstrução (Pa)

C_e-C_i = Para este exemplo, adotamos o valor de 1,5 para **(C_e-C_i)** 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, dada 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:

V₀ = 40 m/s

S₁ = 1,12

S₂ = 0,88

S₃ =

VK = 39,42 m/s

$$(VK)^2$$

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

q = 971 Pa (também é igual a Pressão de Projeto = P_p)

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

P = 1457 Pa ou 145,7 kg/m²

Conclusão deste exemplo:

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

145,7 kg/m² ou 1457 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 kg/m² ou 971 Pa,

cujo valor é

14,6 kg/m² ou 140 Pa

Descrição do exemplo a ser calculado

Obra localizada em São Paulo, REGIÃO III, em local de terreno aberto e poucas obstruções, com 16 pavimentos (± 50 metros). Vide tabela 4, 3.a coluna.



Capítulo 2

Resultados dos ensaio

 GRUPO FÁTIMA BAUER	La Fábrica Bauer SOLUÇÕES EM CIMENTO PORTLAND		 H&B CONCRETO
Data: 04/05/2016 P.: 01	Classificação do produto de referência: Concreto de Baixo Contracção para Argas - NBR-12220-14, classe B-25 e B-30, com f'cd = 25 MPa		
RELATÓRIO DE ENSAIO ETE 8103H			
LABORATÓRIO DE ALUMÍNIO			
DETERMINAÇÃO DE ENFERMEZAS			
	 Nº 1047 1000 1000		
Interessado:	ALCOA ALUMÍNIO S/A, Rua Felipe Camarão, 535 – Utinga, 06233-900 – Santo André – SP		
Emissão:	(15/10/04)		
1. MATERIAL ENVIADO:			
Um protótipo de esquadria de alumínio entregue pelo interessado em massa laboratório em ENFERMEZAS.			
1.1 - Tipo:			
Janela maximizante constituída por duas folhas móveis, identificada pelo fabricante como MAX LITPASS II 60SLII			
1.2 - Dimensões do protótipo:			
- Vão	(2' 000 x 1' 320) mm		
- Folha maximize-esquerda	(300 x 1' 320) mm		
- Folha maximize-direita	(300 x 1' 320) mm		
1.3 - Fixação no vão			
A janela de alumínio foi fixada em contramuro instalado em alvenaria acabada de blocos cerâmicos.			
1.4 - Sistema de vedação			
utilizando-se apresentado em planta anexa			
2. ENSAIOS REALIZADOS - METODOLOGIAS			
2.1 - Verificação da Penetração de Ar, conforme NBR 9445.			
2.2 - Verificação da estanqueidade à Água, conforme NBR 9496.			
2.3 - Complemento aos Cargos Uniformemente Distribuídos, conforme NBR 6487			
O presente relatório tem caráter informativo e não constitui recomendação e nem substitui a aplicação das técnicas usuais vigentes na prática dos ensaios realizados e relatados aqui.			
Grupo Fátima Bauer	SÃO PAULO: Rua Augusta, 191 - R.P. - CEP 05055-070 - FONE (11) 3611-0822 - FAX (11) 3611-0826 PORTO ALEGRE: Domínguez - Rua José dos Santos - Bairro - Centro - Rio de Janeiro - RJ BRASILIA: Universidade do Gama - Universidade do Estado - BRASILIA: 711-00-0001 / 00001155 - (11) 3611-0826		



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CONCRETO E SOLUÇÕES





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2. RESULTADOS OBTIDOS:

2.1 - Penetração de Ar:

Prova (Pa)	Módulo de elasticidade (MPa)	Localização
80	0,0000	—
90(1)	0,0000	—

(*) Realizado após o término de ensaio de deformação.

2.2 - Exatidão de Água:

De acordo com a tabela correlaciona os valores das provas obtidas em função da classe e região de utilização, ao tempo de aplicação e as observações sobre a qualidade da água.

A água de água aplicada foi 4,5 ml. m³

Classe e Região de Utilização de Água	Prova de Elasticidade (Pa)	Tempo (min)	Observações
Classe II - Região II	120	15	Resistência Comprimida
Classe III - Região II	150	15	Resistência Comprimida
Classe IV - Região II	200	15	Resistência Comprimida
Classe V - Região II	250	15	Resistência Comprimida
Classe VI - Região II	300	15	Resistência Comprimida

PI - permeabilidade total, na qual ocorre escoamento de água para dentro

PII - permeabilidade excessiva, na qual ocorre escoamento de água para dentro

As imagens apresentadas aqui são apenas para fins informativos e não devem ser usadas para fins legais. O Grupo Falcão Bauer não se responsabiliza por danos causados por uso indevido das imagens.

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COMPROMISSO DE PREÇOS DE AVALIAÇÃO

La Fábrica Bauer, S.L. inscrita no Registo da Comércio da Espanha nº 2881 no dia 14 de Maio de 2014, nº 1-108-00

3.2 - Comportamento sob Cargas Uniformemente Distribuídas

3.2.1 - Pressão positiva

Pressão (Pa)	Velocidade do vento Correspondente (m/s)	Deformação (mm) D1	Deformação (mm) D2	Deformação (mm) D3	Deformação Residual (mm) D4 = D2-D3 (mm)
1.200	158	1,26	0,00	0,00	0,00
0	-	0,00	0,00	0,00	0,00
1.800	176	1,81	0,13	0,16	0,00
0	-	0,00	0,00	0,00	0,00
2.400	193	2,04	0,30	0,37	0,00
0	-	0,00	0,00	0,00	0,00
Deformação máxima (comportamento livre do perfil) (1%)					0,33
Deformação residual máxima (0,4% do comprimento livre do perfil)					0,20

3.2.2 - Pressão negativa (sucção)

Pressão (Pa)	Velocidade do vento Correspondente (m/s)	Deformação (mm) D1	Deformação (mm) D2	Deformação (mm) D3	Deformação Residual (mm) D4 = D2-D3 (mm)
900	141	1,04	1,04	1,14	0,00
0	-	0,00	0,00	0,00	0,00
1.800	158	2,00	1,30	1,77	0,00
0	-	0,00	0,00	0,00	0,00
2.400	174	2,00	1,77	2,00	0,00
0	-	0,00	0,00	0,00	0,00
Deformação máxima (comportamento livre do perfil) (1%)					0,33
Deformação residual máxima (0,4% do comprimento livre do perfil)					0,33

Os defletores para medir as deformações foram posicionados no montante central do muro com a distância de 1.000 mm.

D 1 - na parte do montante;

D 2 - na parte superior do montante;

D 3 - na parte inferior do montante;



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4. OBSERVAÇÕES

4.1 - Os requisitos de desempenho das esquadrias, são estabelecidos para quatro categorias de edifício, denominadas classes de utilização:

- **classe normal:** são esquadrias que serão instaladas em edifícios de caráter residencial ou comercial sujeitos de até dois pavimentos;
- **classe melhorada:** são esquadrias que serão instaladas em edifícios de caráter residencial ou comercial de até quatro pavimentos ou 12 metros;
- **classe reforçada:** são esquadrias que serão instaladas em edifícios de caráter comercial passível de edifícios residenciais que possuam mais de cinco pavimentos;
- **classe excepcional:** são esquadrias que serão instaladas em edifícios de esquadrias especiais (shopping, hotéis, hospitais, etc.).

Para todas as classes de utilização, os ensaios de estanqueidade à água e resistência às cargas uniformemente distribuídas, são realizados de acordo com as opções de Brasil onde a esquadria é utilizada, conforme indica a Figura 2 da ABNT NBR 15.827.

Nas classes de utilização Reforçada e Excepcional, para a realização dos ensaios de estanqueidade à água e resistência às cargas uniformemente distribuídas, são adotados de acordo com as opções de Brasil onde a esquadria é utilizada, conforme especifica a Anexo B da ABNT NBR 15.827, sendo esta informação pelo interessado e de sua total responsabilidade.

4.2 - Segundo os resultados obtidos no ensaio verificação de penetração de ar, o protótipo atendido às esquadras para ambientes não condicionados ou não climatizados, localizados em São Paulo, Paraná, Santa Catarina e Rio Grande do Sul, para todas as classes de utilização.

Quanto ao ensaio de estanqueidade à água, o protótipo atendido às esquadras da ABNT NBR 15.827 em a pressão máxima de 500 Pa, ou seja, acima da classe Melhorada na região IV (500 Pa).

As esquadras de resistência às cargas uniformemente distribuídas e protótipo atendido às esquadras da ABNT NBR 15.827, em a pressão máxima de 1800 Pa (180 kN/m²) e quanto à pressão de sucção o protótipo atendido às esquadras em a pressão de 1400 Pa (174 kN/m²), atendendo às esquadras da ABNT NBR 15.827 em a região IV da classe Melhorada.

LABORATÓRIO DE ENSAIO DE MATERIAIS

LABORATÓRIO DE ENSAIO DE MATERIAIS

Engenheiro

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4.2 - É PARTE INTEGRANTE DESTES RELATÓRIOS O COMPLEMENTO, O DESENHO DA ESQUADRIA DE ALUMÍNIO, COM CARIMBO E RUBRICA DESTES LABORATÓRIOS. Segue em anexo documentação fotográfica (fotos nº 01 a 05).

4.4 - Fecho de ensaio - FE 0000.

4.5 - Ensaios finalizados em julho de 2004.

4.6 - Este relatório atende aos requisitos de ordenamento do PROTESTO, o qual atende a competência do laboratório.

NOTA IMPORTANTE:
Os resultados têm significação restrita, aplicando-se tão somente à amostra ensaiada.

São Paulo, 22 de julho de 2004.

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ANEXOS
- Documentação fotográfica (fotos nº 01 a 05).
- Desenho de esquadria de alumínio com carimbo e rubrica do laboratório.

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Foto nº. 01
verificação da penetração de ar

Foto nº. 02
verificação da estanqueidade à água

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Foto nº. 03
Preparação dos diferenciadores no prazo de comportamento sob cargas uniformemente distribuídas

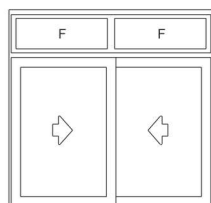
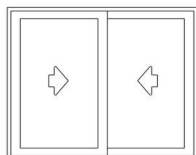
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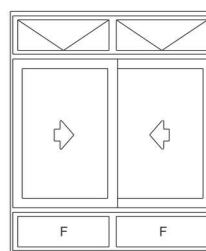
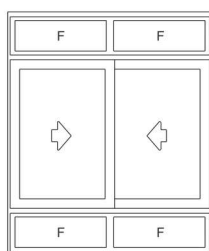
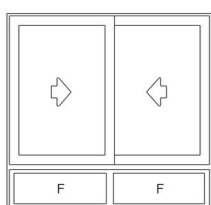
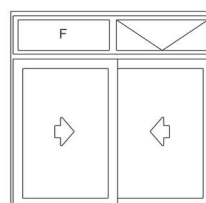
Capítulo 3

Tipologia

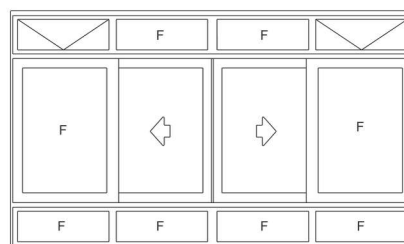
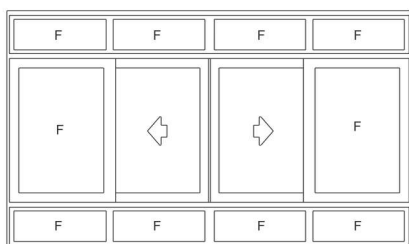
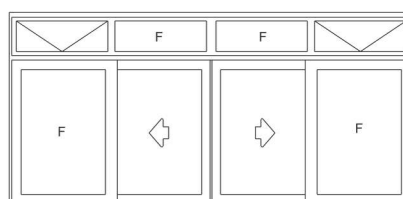
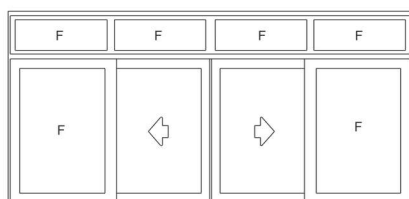
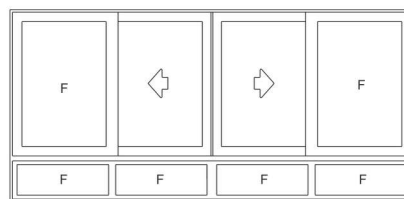
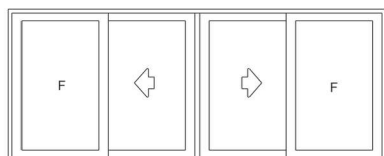
JC2F

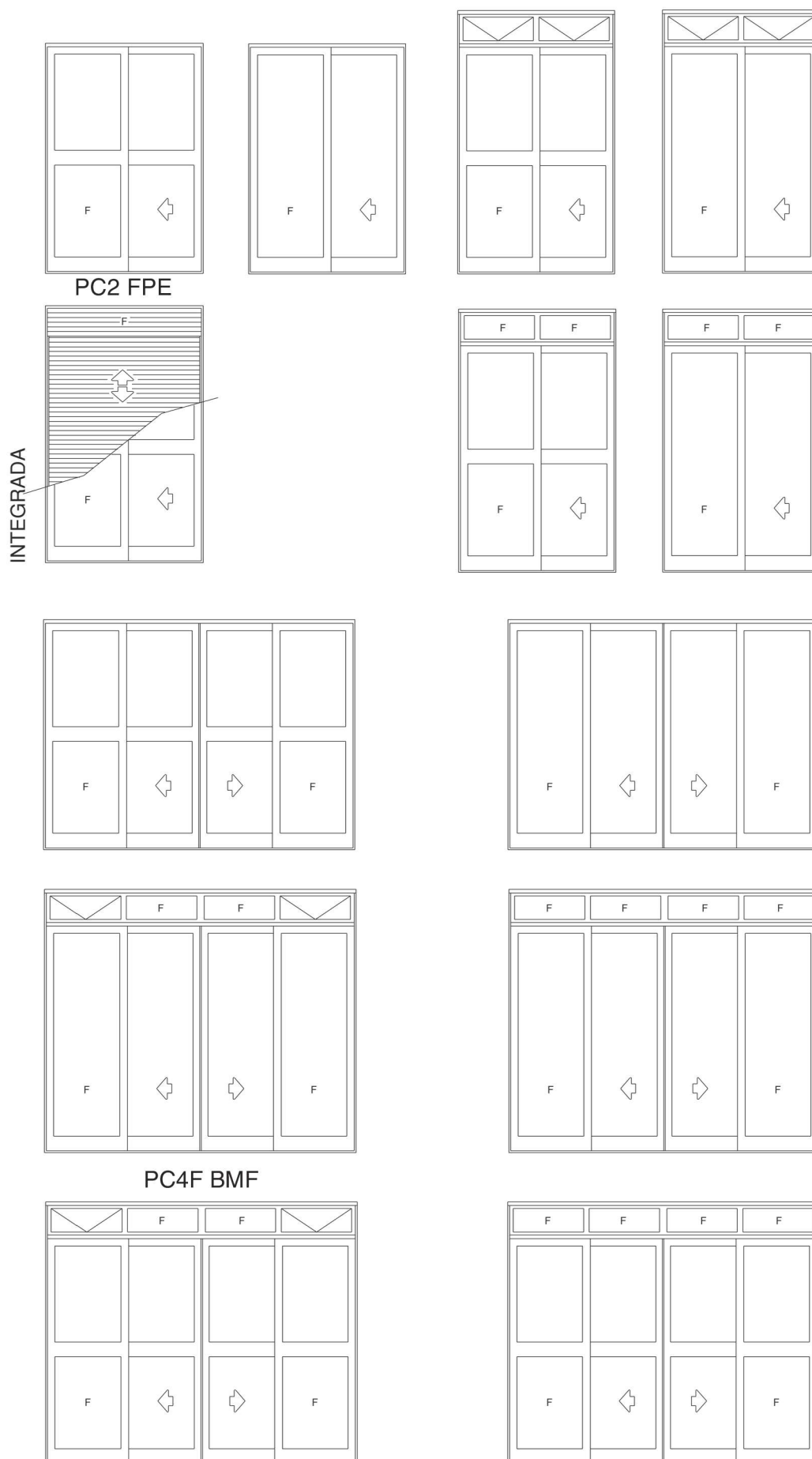


JC2F BMF

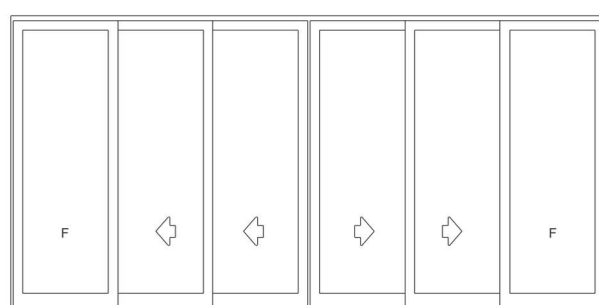
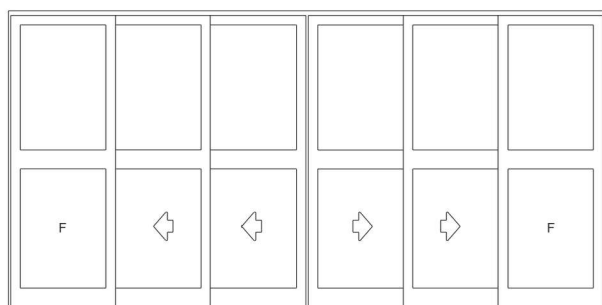
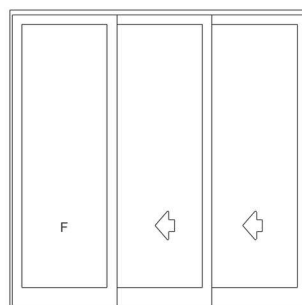
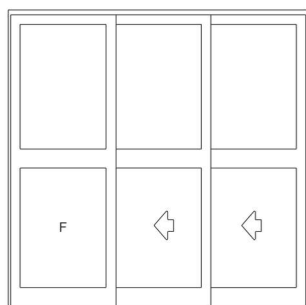


JC4F

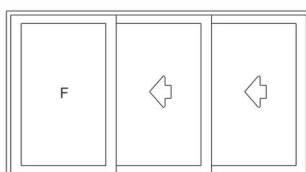
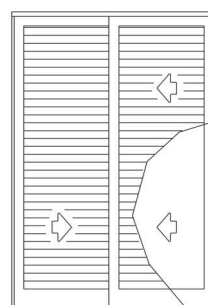
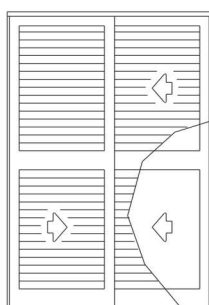




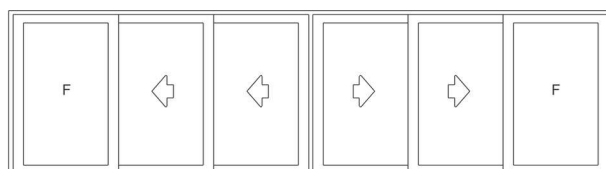
Dimensões máximas, ver Diagrama de Dimensões



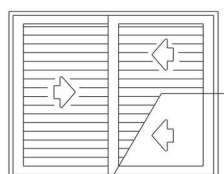
PC3 FVZ



JC6F

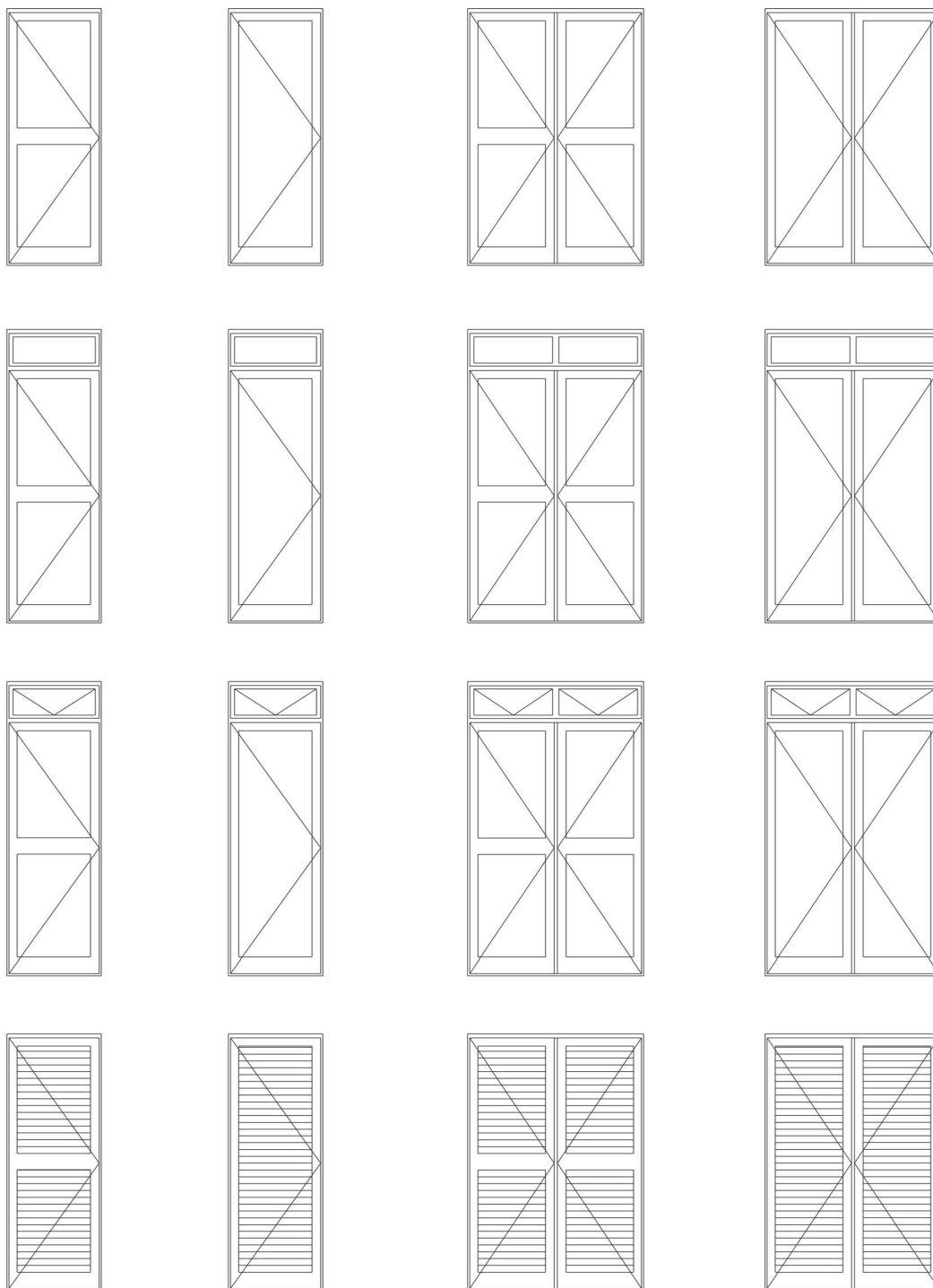


JC3FVZ



Dimensões máximas, ver Diagrama de Dimensões

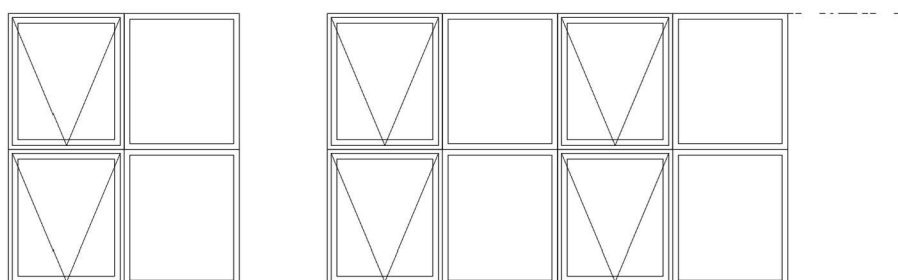
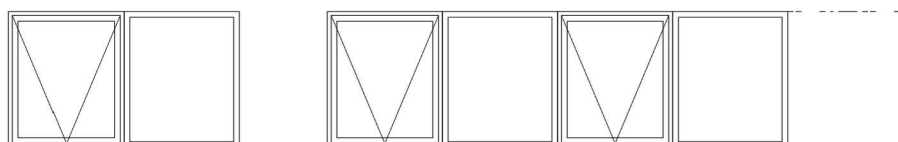
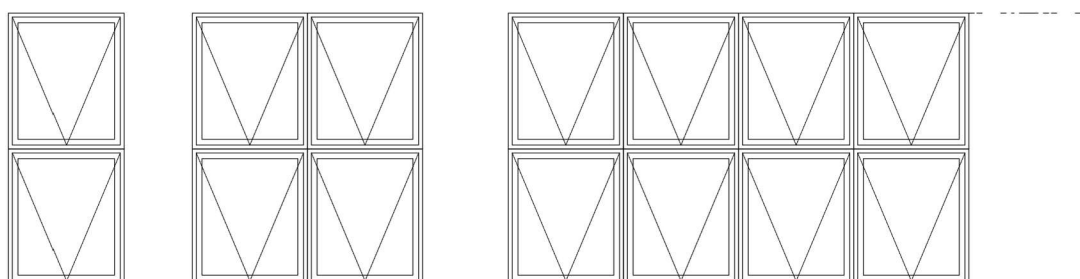
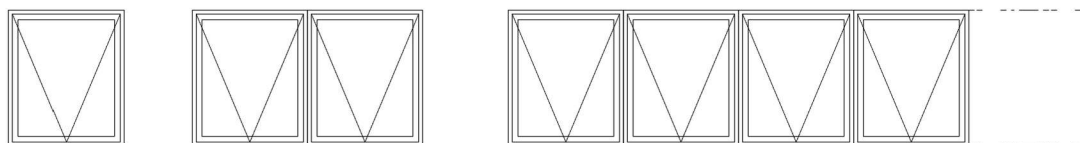
PGR2F



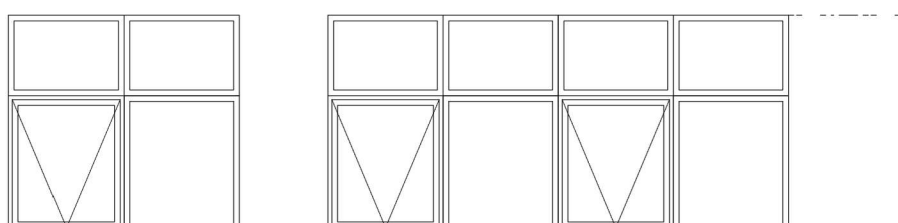
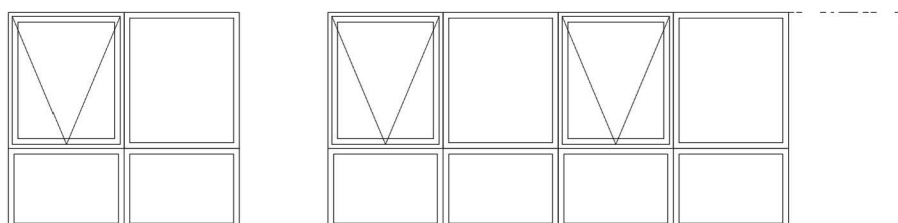
PGR 1FVZ



Dimensões máximas, ver Diagrama de Dimensões

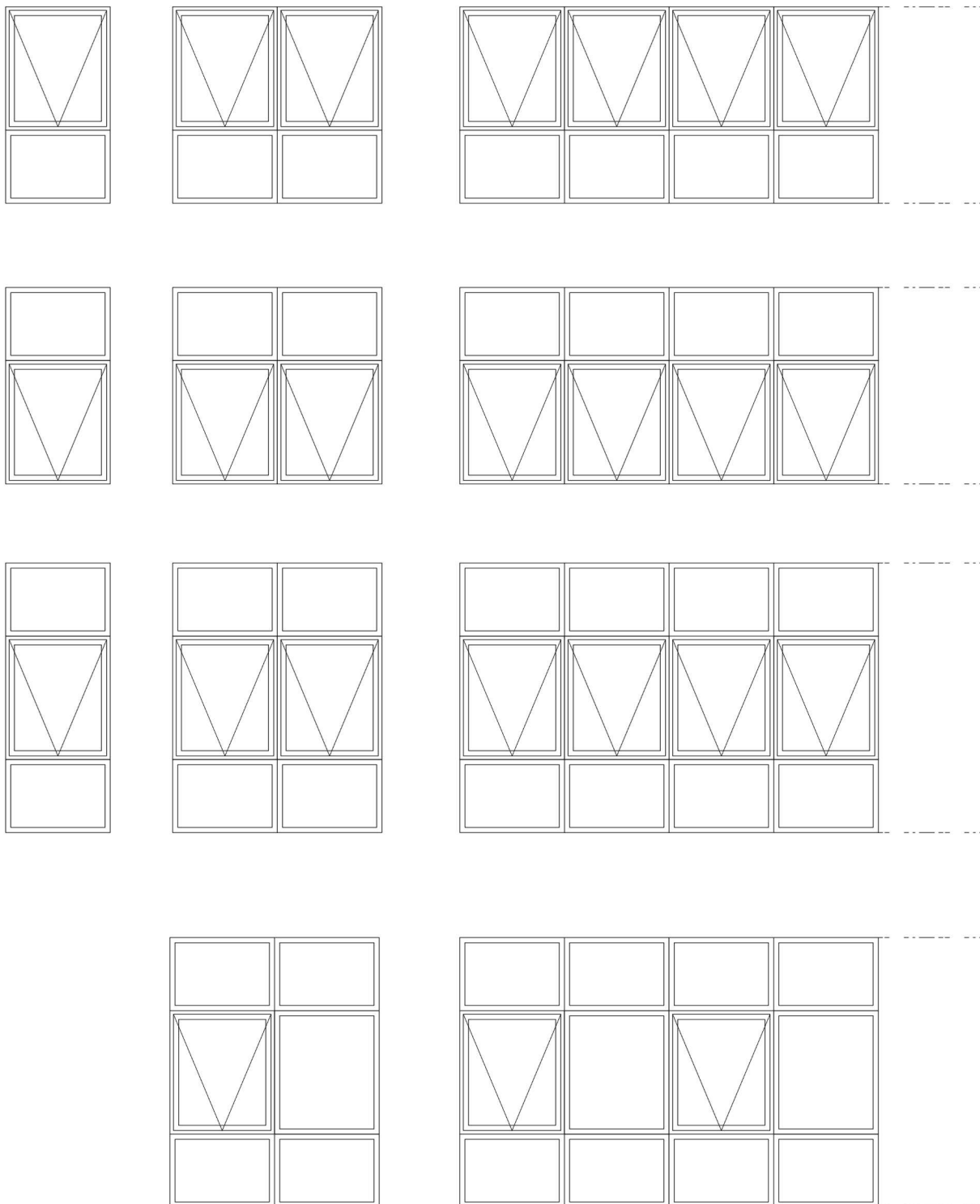


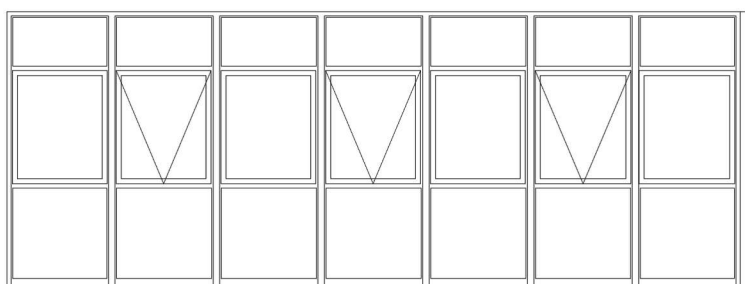
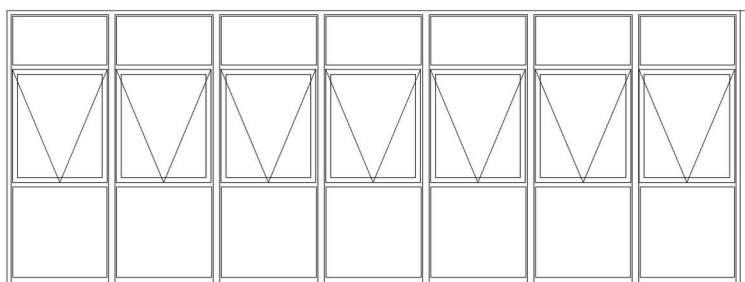
MAX P FIXO CC-CD



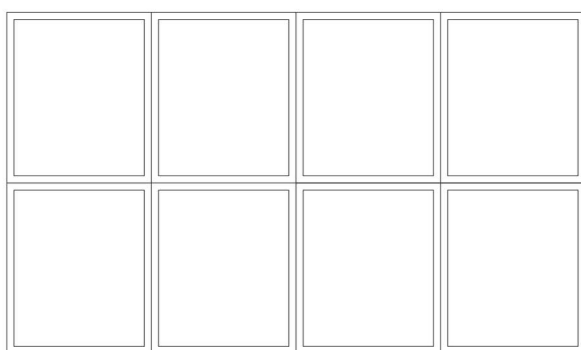
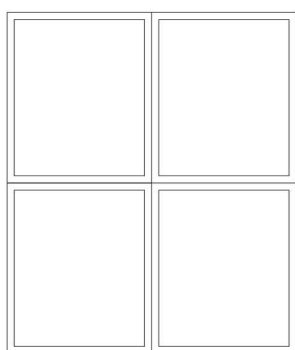
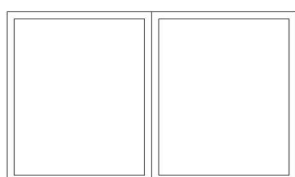
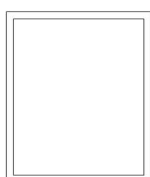
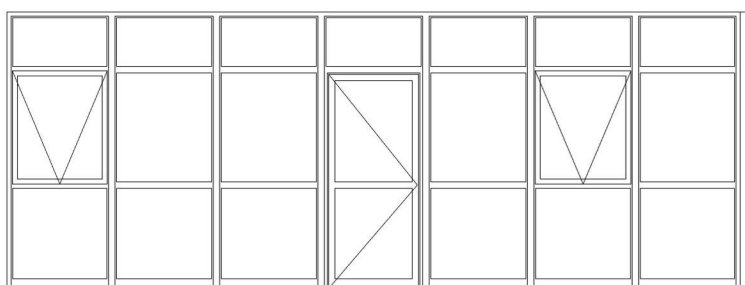
Dimensões máximas, ver Diagrama de Dimensões

MAX P FIXO CC-CD





CJ-P GIRO

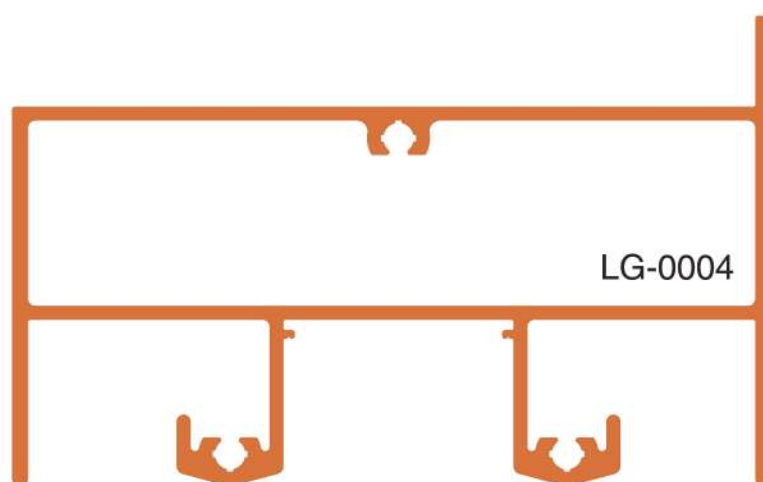
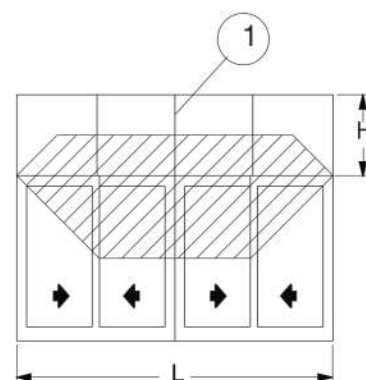
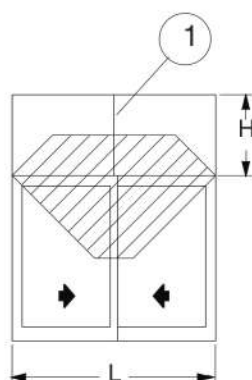




Capítulo 4

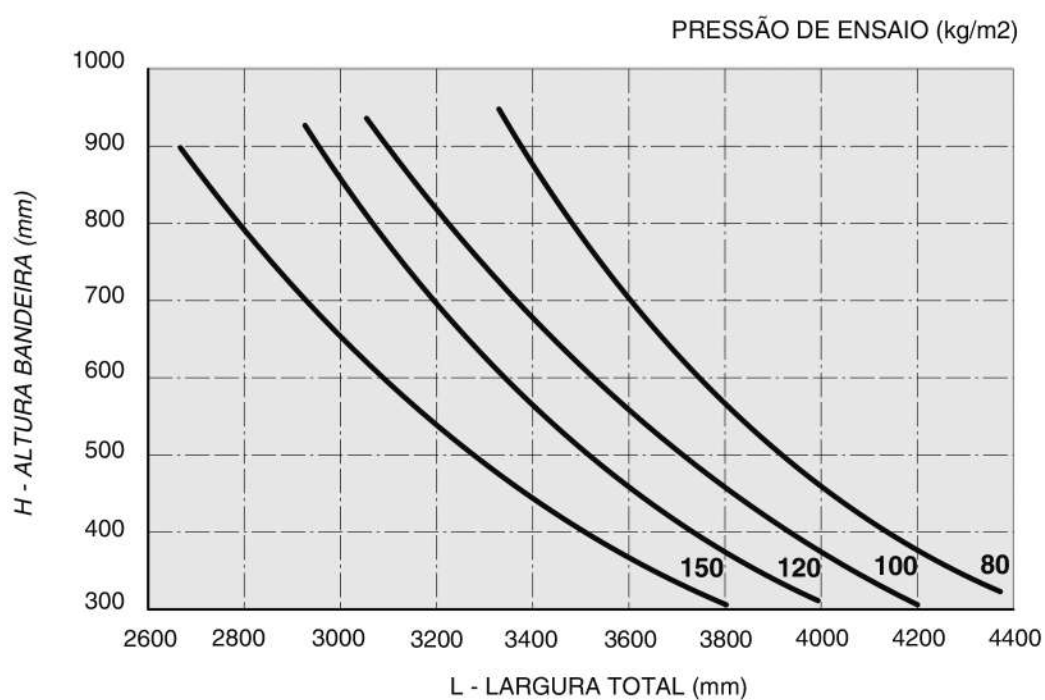
Diagramas de dimensões

Bandeira



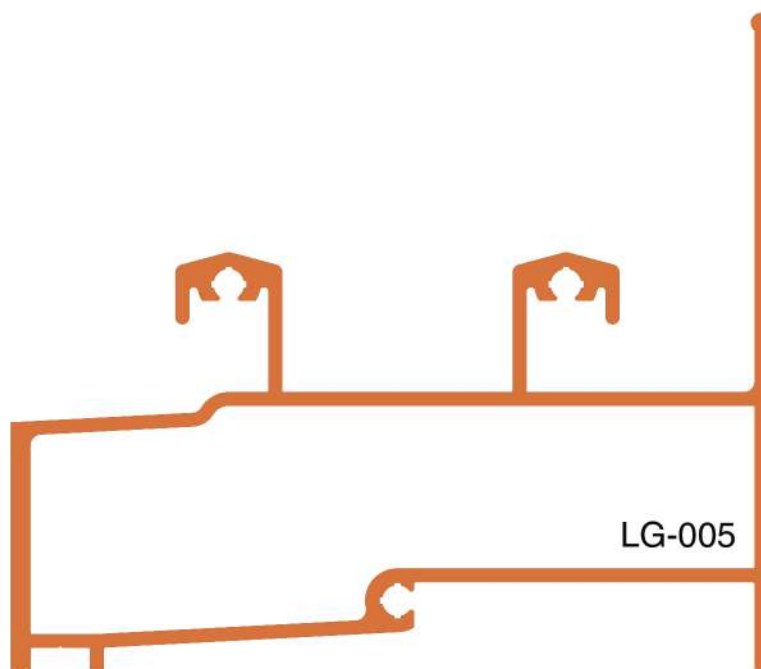
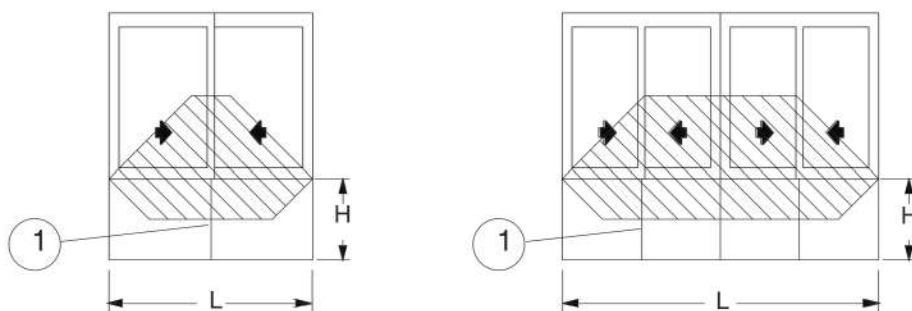
$$J_y = 873\,671 \text{ mm}^4$$

$$W_y = 16\,798 \text{ mm}^3$$

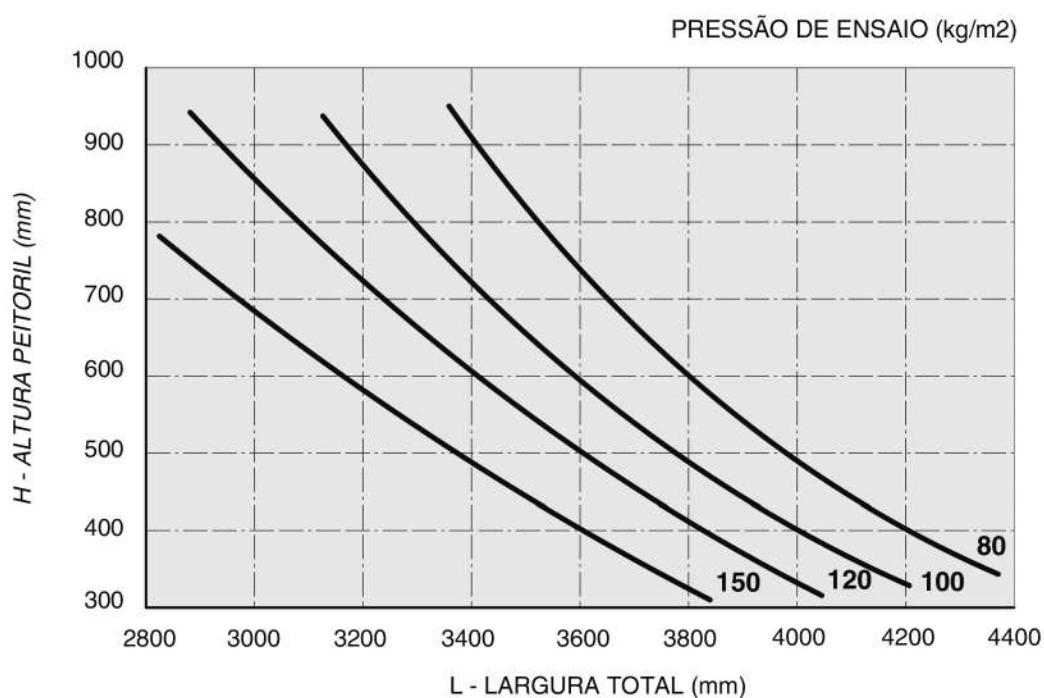


① É RECOMENDÁVEL O USO DE MONTANTES PARA L ACIMA DE 2400mm

Peitoril

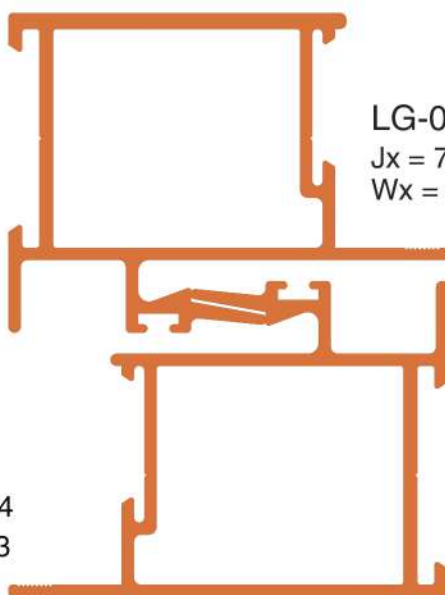
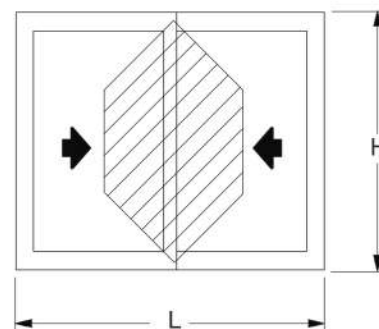


$J_y = 931\,543 \text{ mm}^4$
 $W_y = 16\,640 \text{ mm}^3$



① É RECOMENDÁVEL O USO DE MONTANTES PARA L ACIMA DE 2400mm

Mão de amigo



LG-0048

$J_x = 77\,523 \text{ mm}^4$

$W_x = 3\,592 \text{ mm}^3$

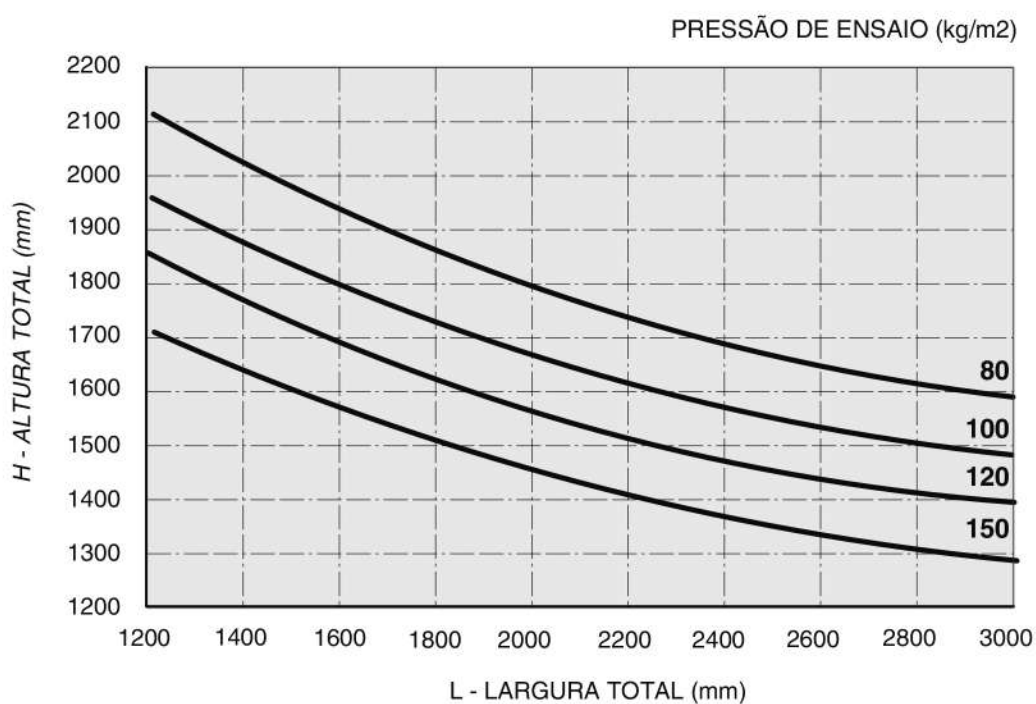
LG-0049

$J_x = 73\,392 \text{ mm}^4$

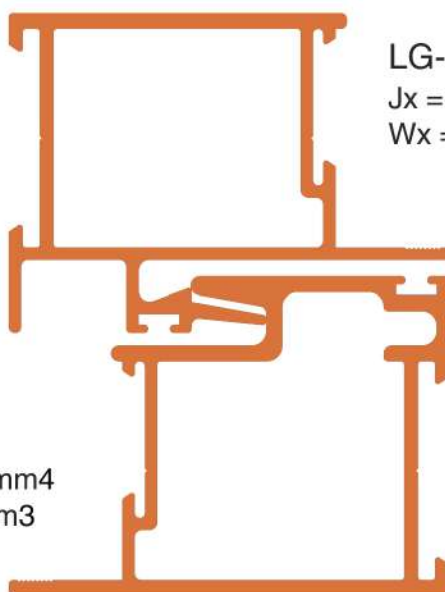
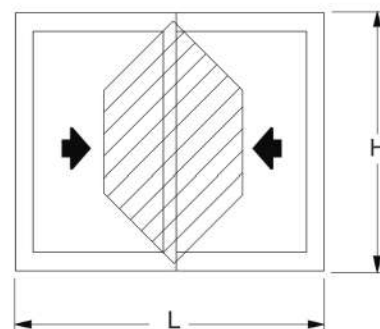
$W_x = 3\,316 \text{ mm}^3$

$J_{xt} = 150\,915 \text{ mm}^4$

$W_{xt} = 6\,908 \text{ mm}^3$



Mão de amigo



LG-0048

$J_x = 77\,523 \text{ mm}^4$

$W_x = 3\,592 \text{ mm}^3$

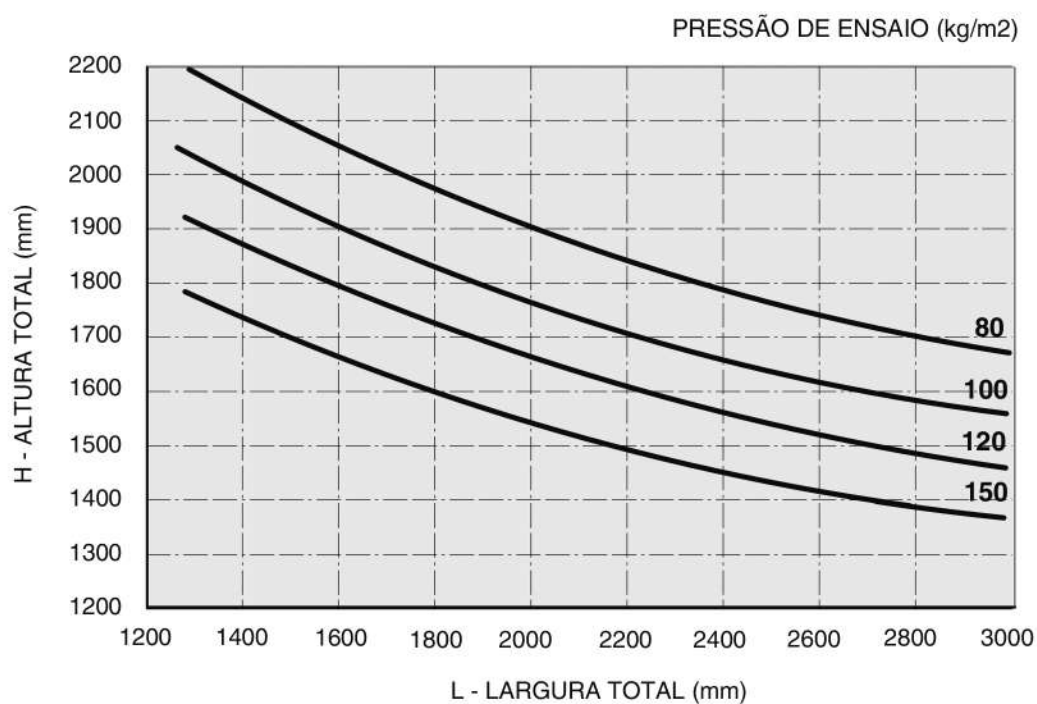
LG-0019

$J_x = 101\,928 \text{ mm}^4$

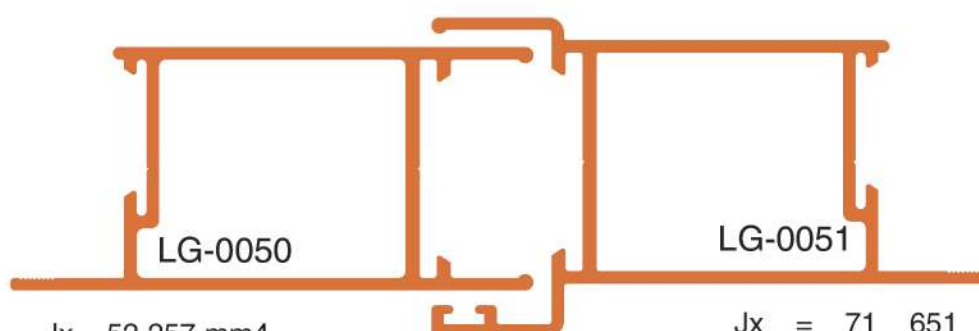
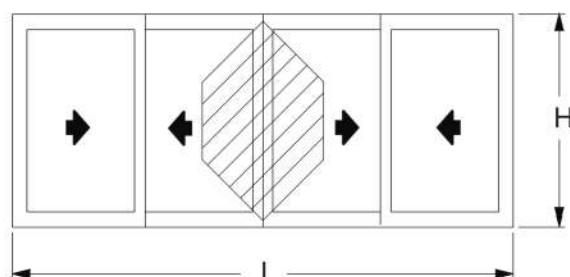
$W_x = 4\,847 \text{ mm}^3$

$J_{xt} = 179\,451 \text{ mm}^4$

$W_{xt} = 8\,439 \text{ mm}^3$



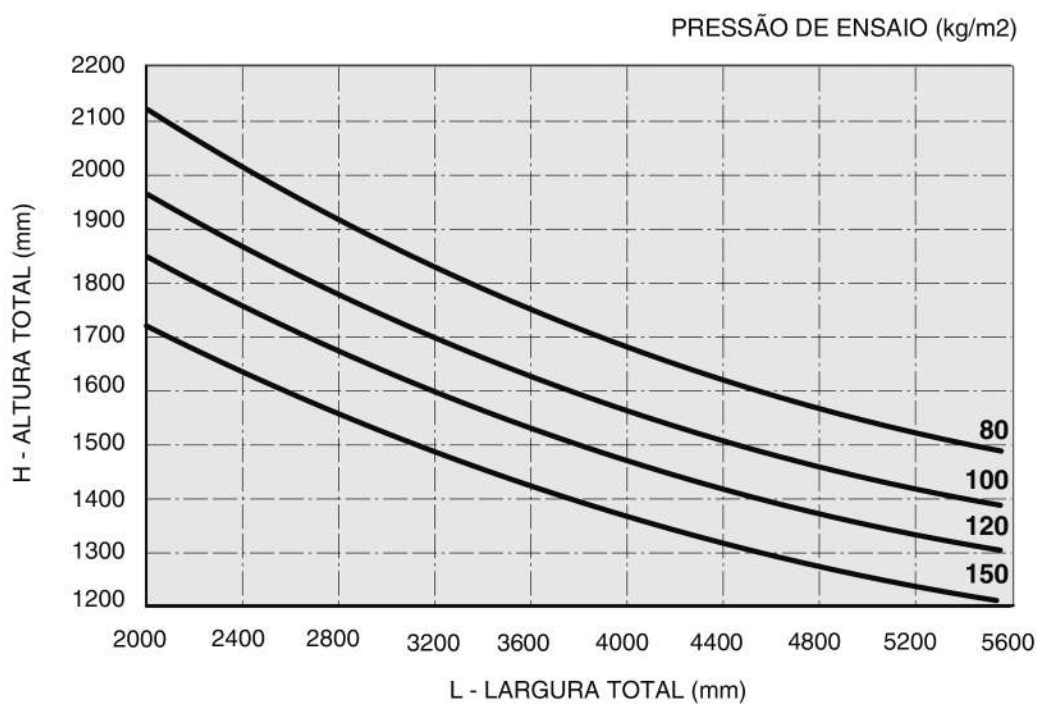
Central 4 folhas



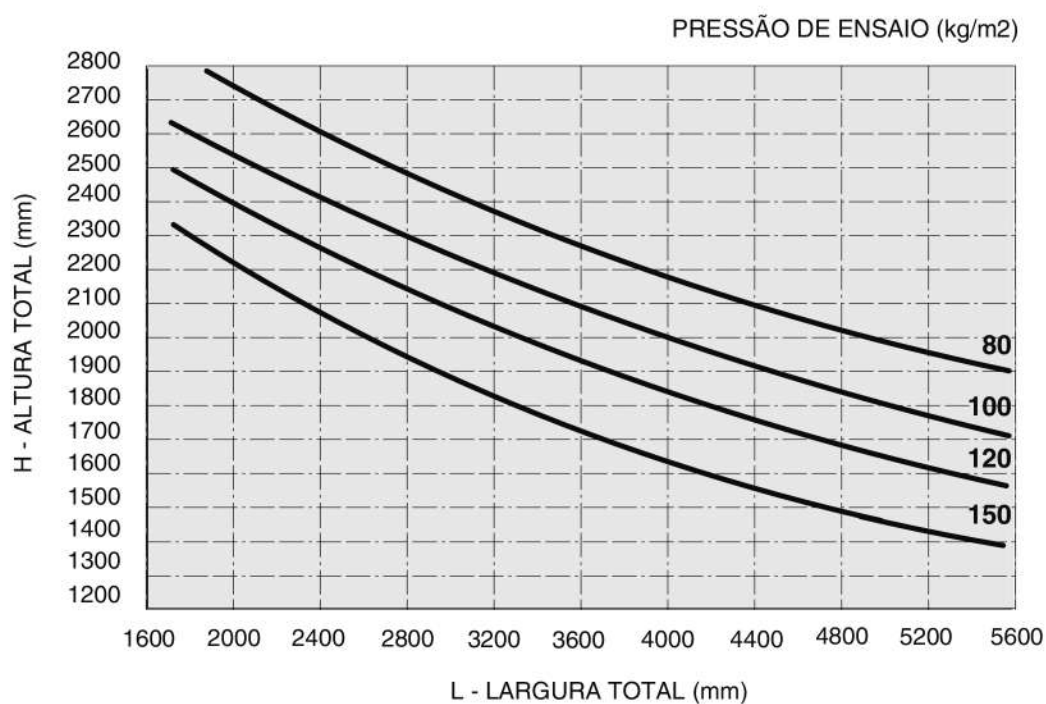
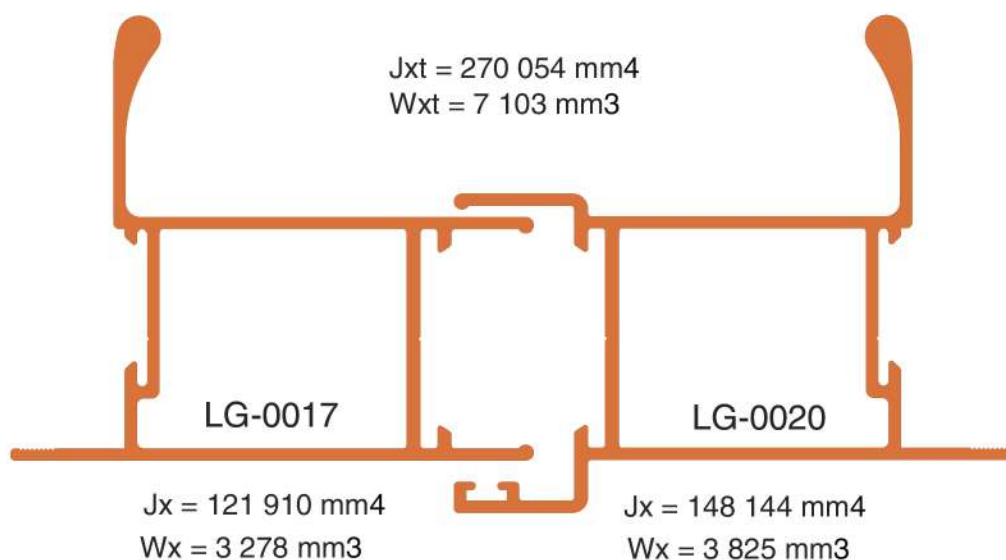
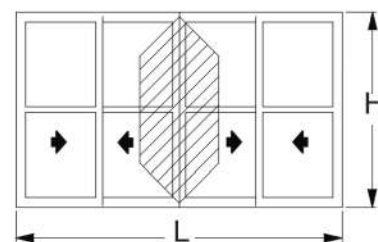
$Jx = 52\,257 \text{ mm}^4$
 $Wx = 3\,063 \text{ mm}^3$

$Jx = 71\,651 \text{ mm}^4$
 $Wx = 3\,387 \text{ mm}^3$

$Jxt = 123\,908 \text{ mm}^4$
 $Wxt = 6\,450 \text{ mm}^3$

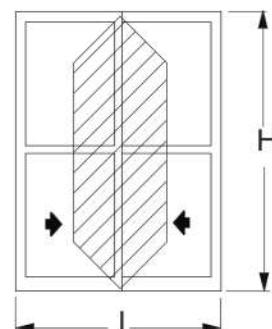


Central 4 folhas



OBS : FOLHAS ACIMA DE 70 kg, USAR ROLDANA STRONG

Mão de amigo



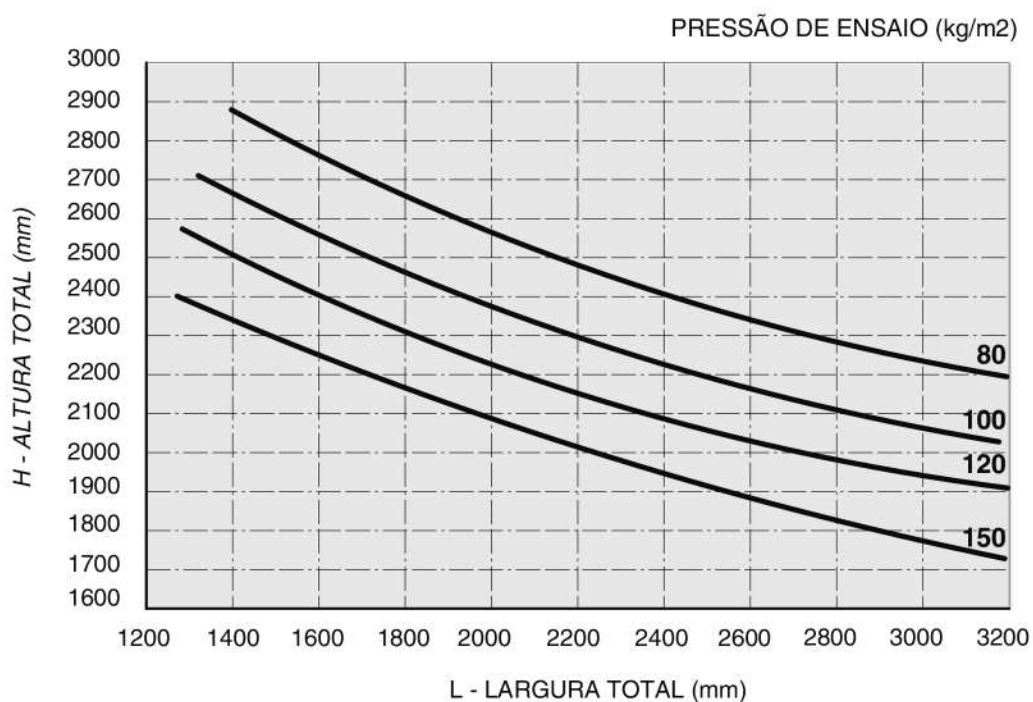
LG-0018

LG-0018
 $J_x = 317\,820 \text{ mm}^4$
 $W_x = 9\,284 \text{ mm}^3$

LG-0019
 $J_x = 101\,928 \text{ mm}^4$
 $W_x = 4\,847 \text{ mm}^3$

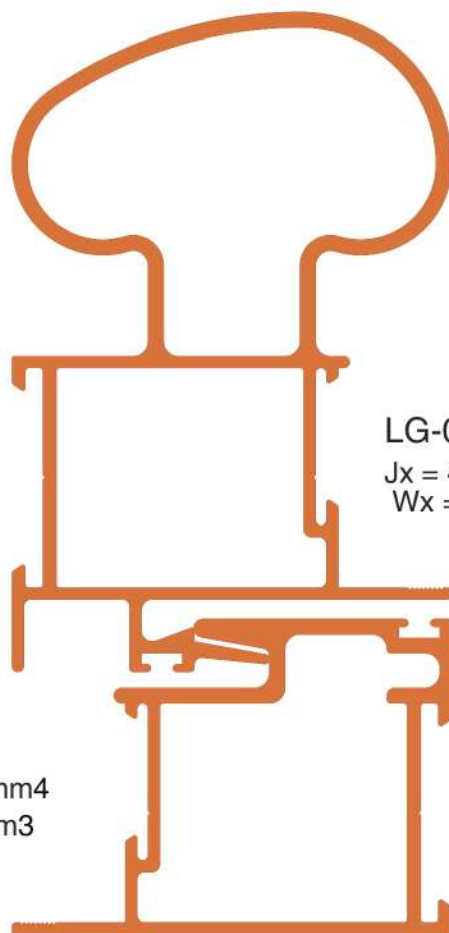
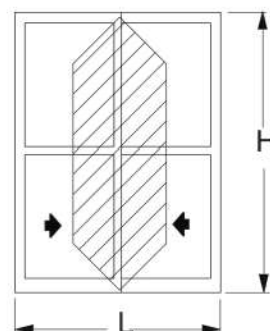
$J_{xt} = 419\,748 \text{ mm}^4$
 $W_{xt} = 14\,131 \text{ mm}^3$

LG-0019



OBS : FOLHAS ACIMA DE 70 kg, USAR ROLDANA STRONG

Mão de amigo



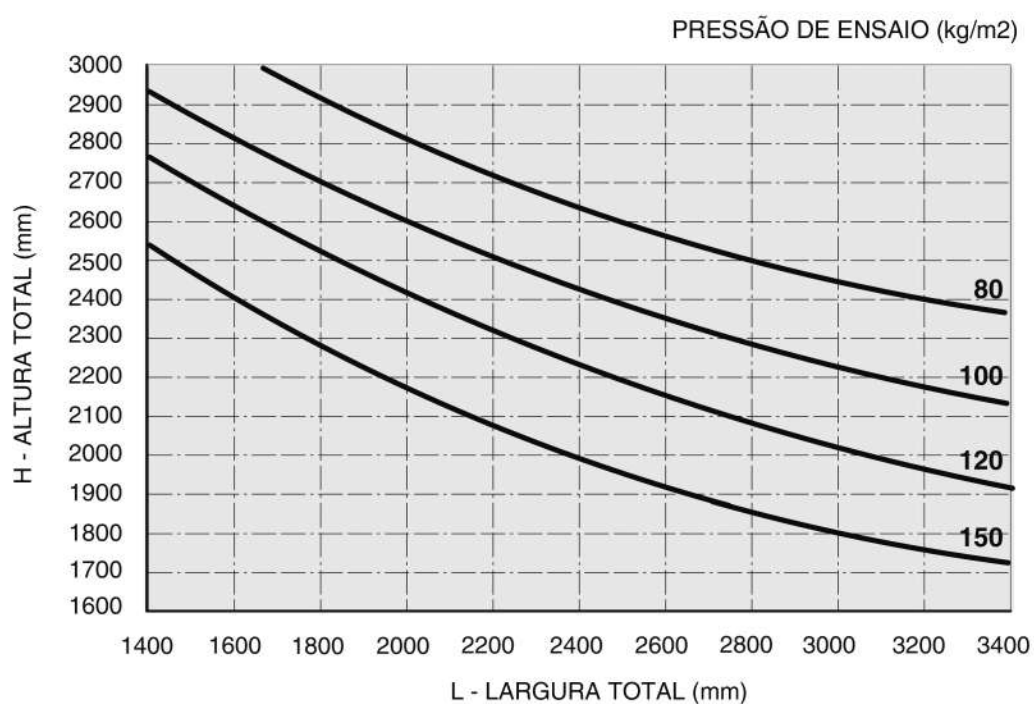
LG-0021

$J_x = 475\,802\text{ mm}^4$
 $W_x = 10\,704\text{ mm}^3$

LG-0019

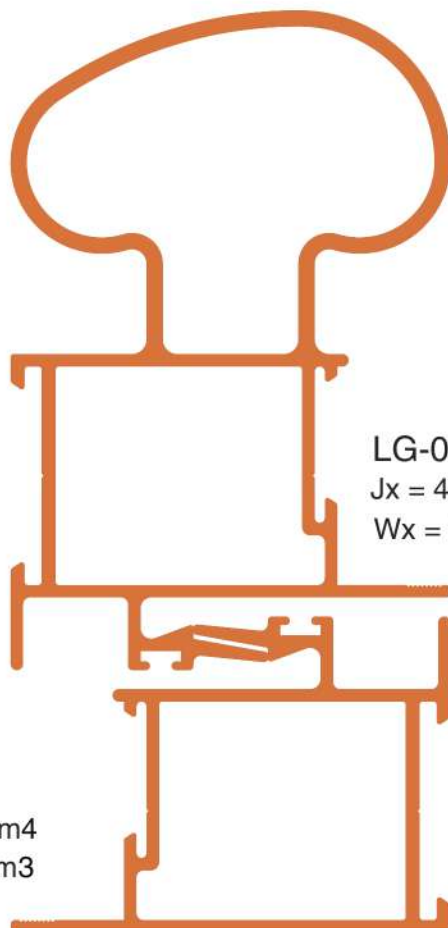
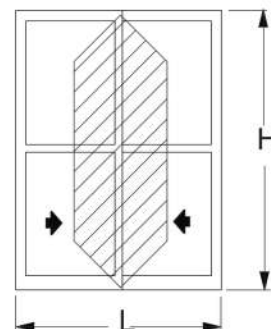
$J_x = 101\,928\text{ mm}^4$
 $W_x = 4\,847\text{ mm}^3$

$J_{xt} = 577\,730\text{ mm}^4$
 $W_{xt} = 15\,551\text{ mm}^3$



OBS : FOLHAS ACIMA DE 70 kg, USAR ROLDANA STRONG

Mão de amigo



LG-0021

$J_x = 475\,802\text{ mm}^4$

$W_x = 10\,704\text{ mm}^3$

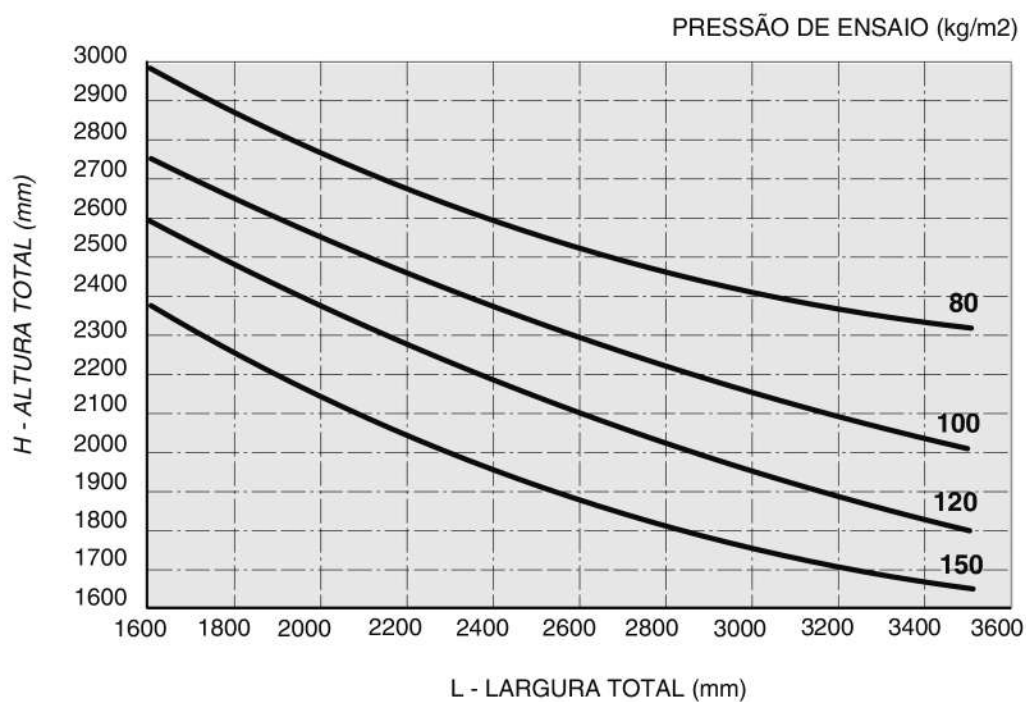
LG-0049

$J_x = 73\,392\text{ mm}^4$

$W_x = 3\,316\text{ mm}^3$

$J_{xt} = 549\,194\text{ mm}^4$

$W_{xt} = 14\,020\text{ mm}^3$



OBS : FOLHAS ACIMA DE 70 kg, USAR ROLDANA STRONG

Mão de amigo

LG-0021

$J_x = 475\,802 \text{ mm}^4$

$W_x = 10\,704 \text{ mm}^3$

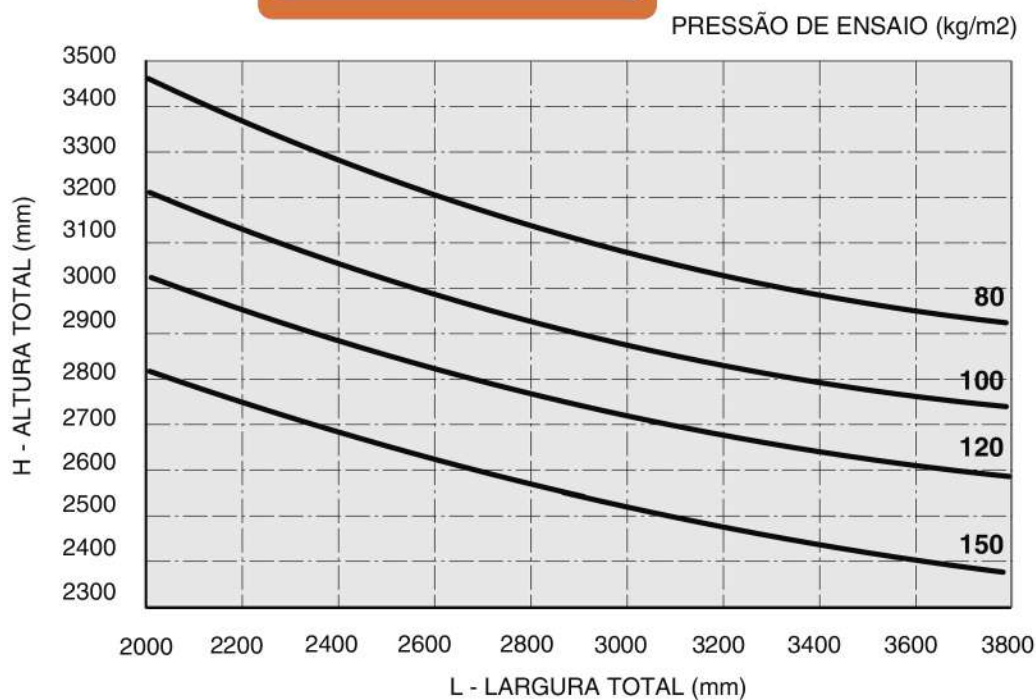
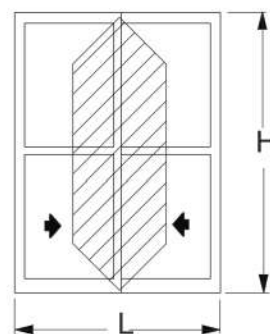
$J_{xt} = 1\,034\,480 \text{ mm}^4$

$W_{xt} = 22\,773 \text{ mm}^3$

LG-0052

$J_x = 558\,678 \text{ mm}^4$

$W_x = 12\,069 \text{ mm}^3$



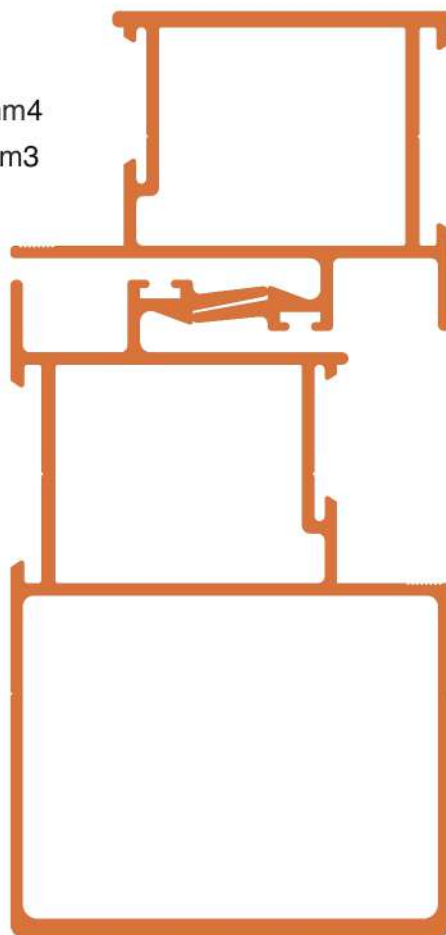
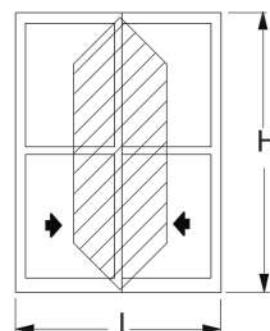
OBS : FOLHAS ACIMA DE 70 kg, USAR ROLDANA STRONG

Mão de amigo

LG-0048

$Jx = 77\,523 \text{ mm}^4$

$Wx = 3\,592 \text{ mm}^3$



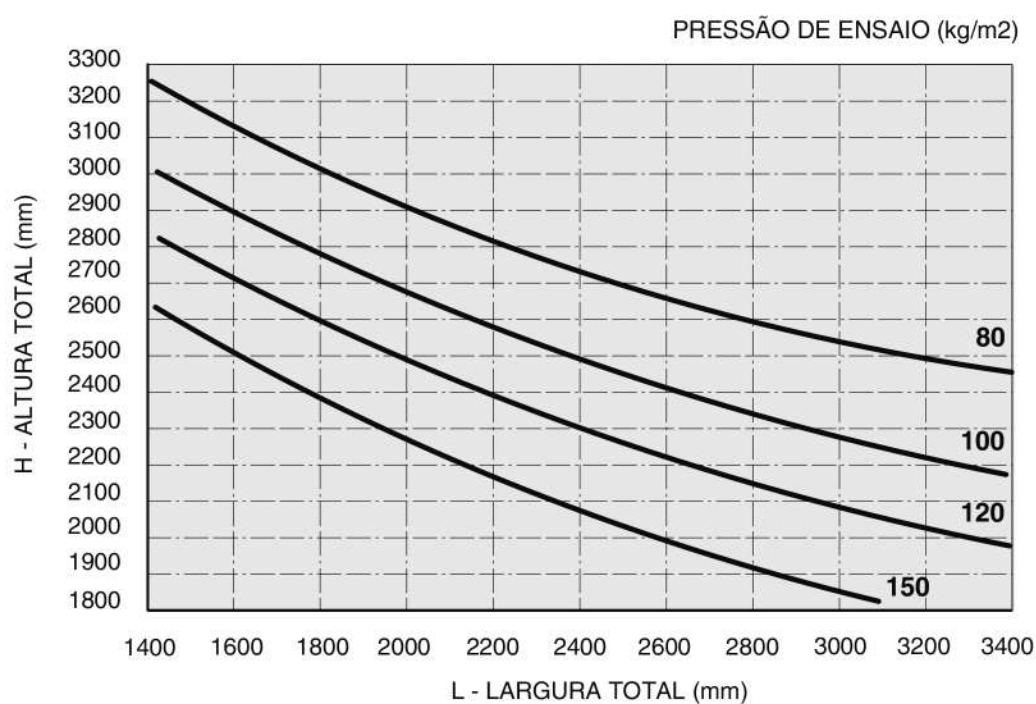
LG-0052

$Jx = 558\,678 \text{ mm}^4$

$Wx = 12\,069 \text{ mm}^3$

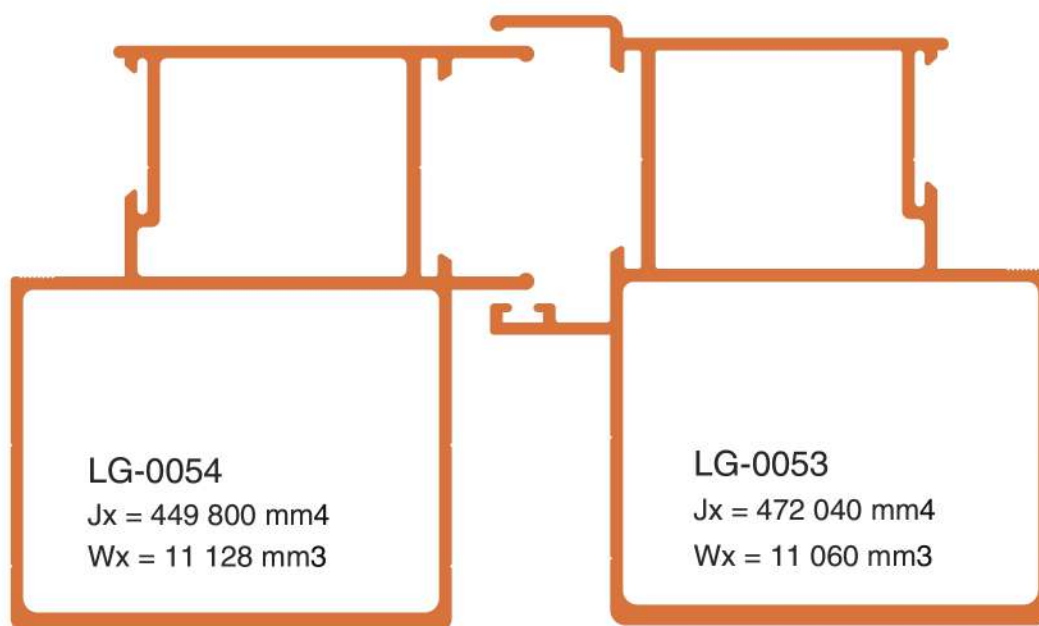
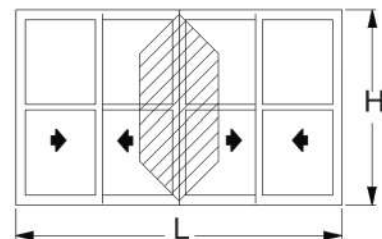
$Jxt = 636\,201 \text{ mm}^4$

$Wxt = 15\,661 \text{ mm}^3$



OBS : FOLHAS ACIMA DE 70 kg, USAR ROLDANA STRONG

Central 4 folhas



LG-0054

Jx = 449 800 mm⁴

Wx = 11 128 mm³

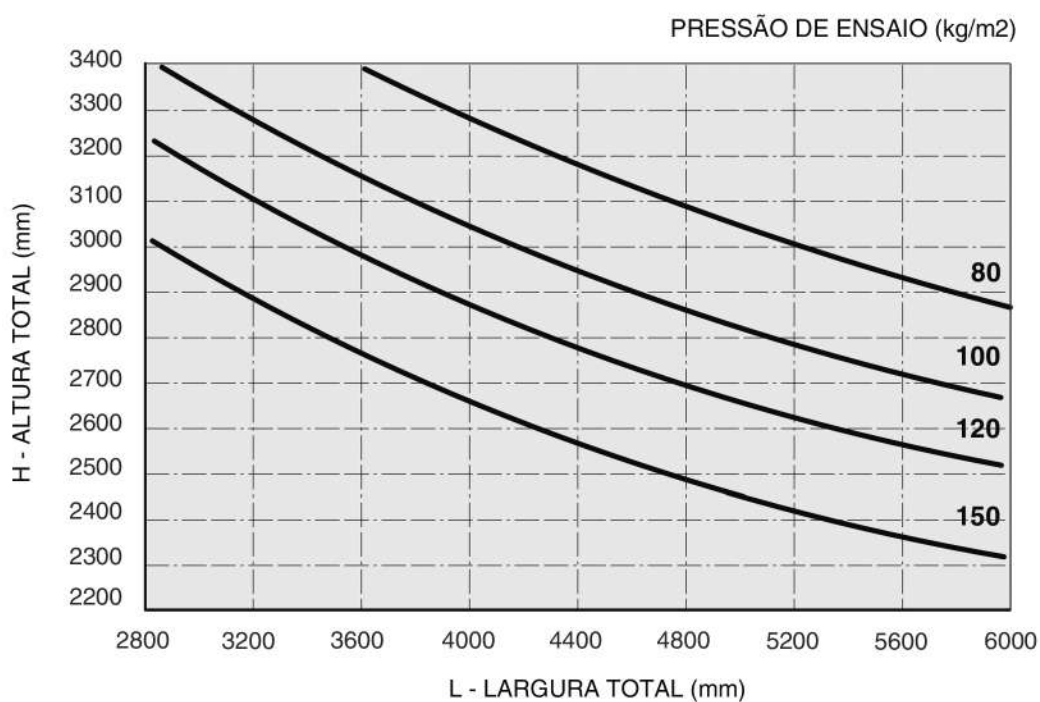
LG-0053

Jx = 472 040 mm⁴

Wx = 11 060 mm³

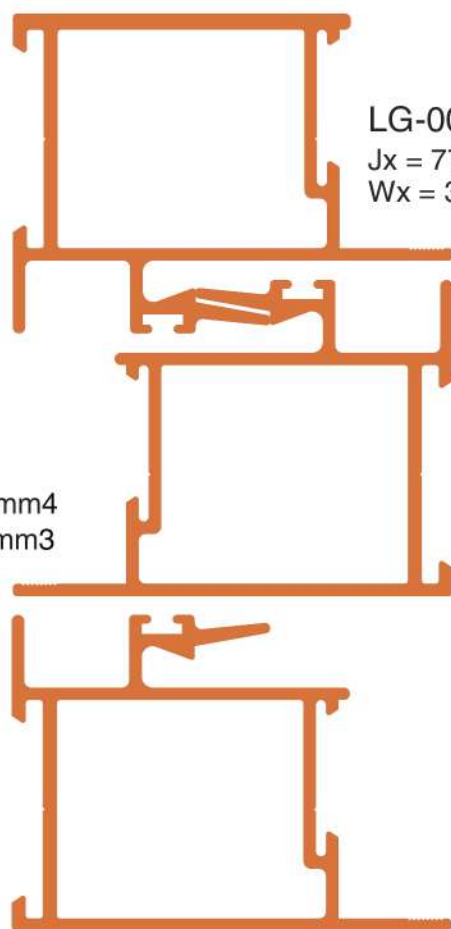
Jxt = 921 840 mm⁴

Wxt = 22 188 mm³



OBS : FOLHAS ACIMA DE 70 kg USAR ROLDANA STRONG

Mão de amigo



LG-0048

$J_x = 77\,523 \text{ mm}^4$

$W_x = 3\,592 \text{ mm}^3$

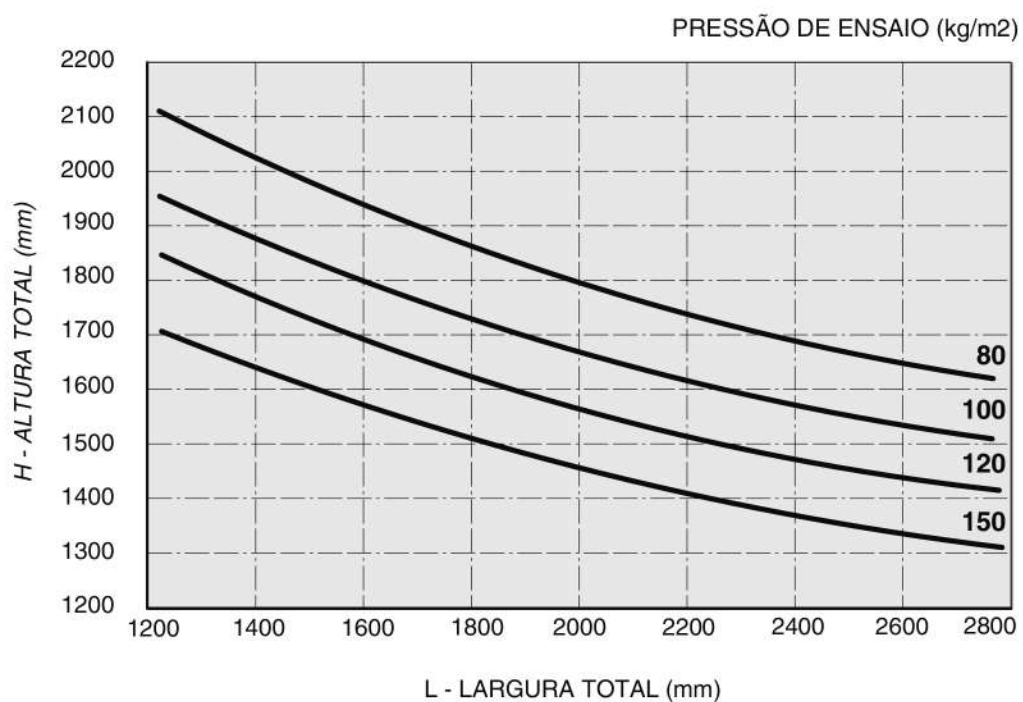
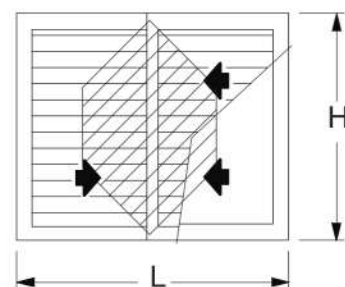
LG-0049

$J_x = 73\,392 \text{ mm}^4$

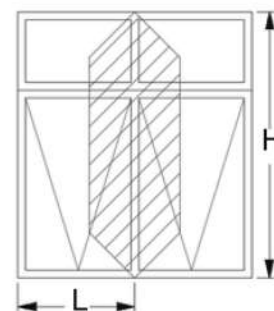
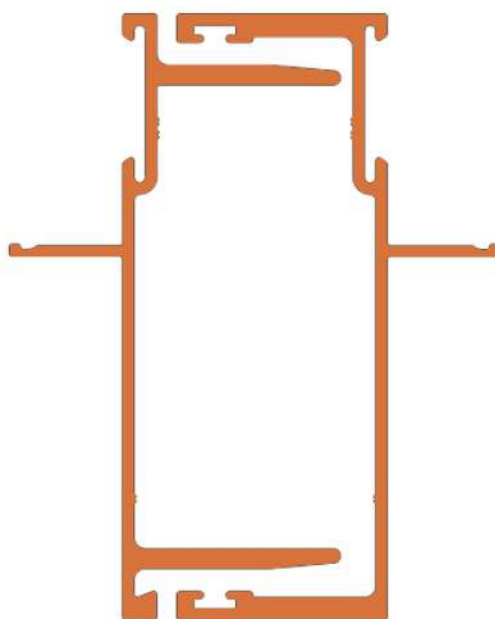
$W_x = 3\,316 \text{ mm}^3$

$J_{xt} = 224\,307 \text{ mm}^4$

$W_{xt} = 10\,224 \text{ mm}^3$



Montante Maxim-ar



LG-0086

$Jx = 211\,435 \text{ mm}^4$

$Wx = 5\,287 \text{ mm}^3$

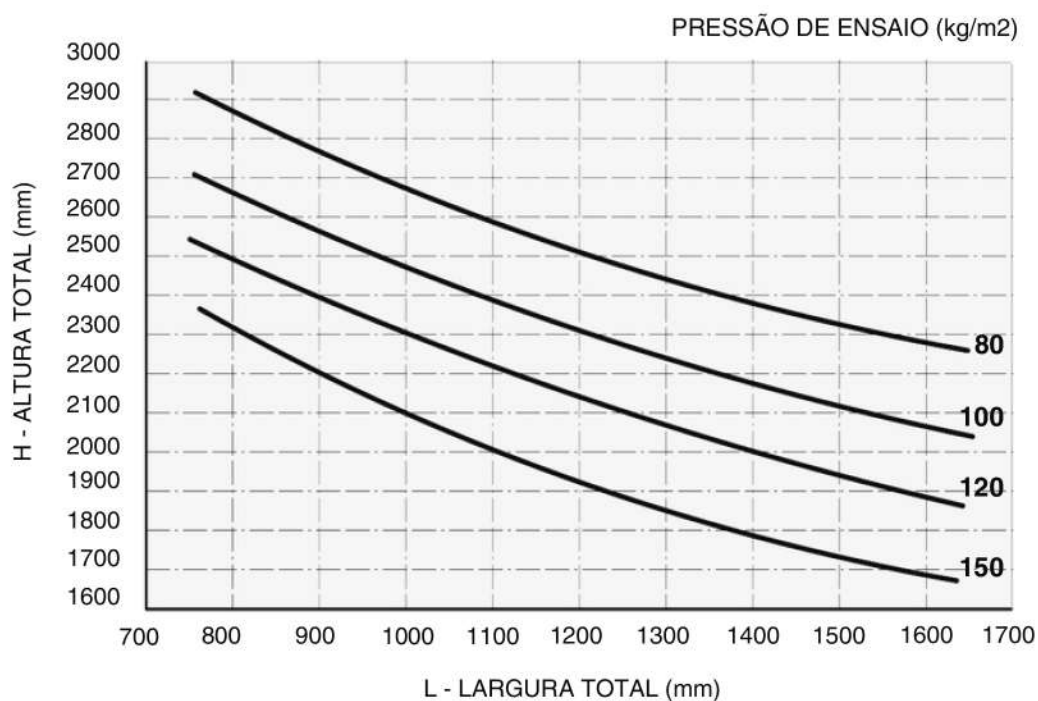
LG-0087

$Jx = 281\,902 \text{ mm}^4$

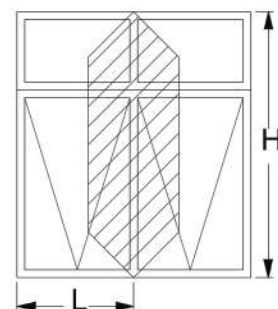
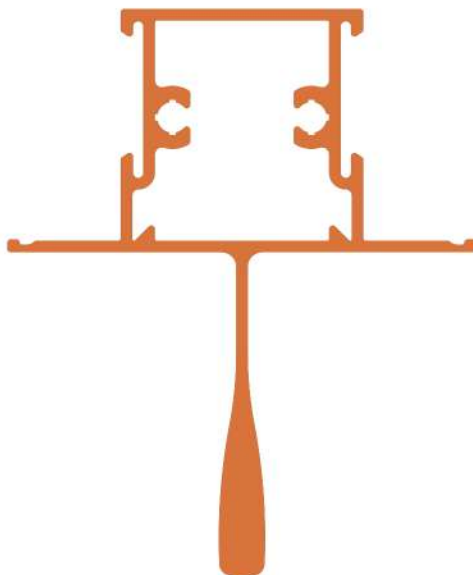
$Wx = 6\,877 \text{ mm}^3$

$Jxt = 493\,338 \text{ mm}^4$

Dimensão máxima da folha móvel 1200x1200mm



Montante Maxim-ar

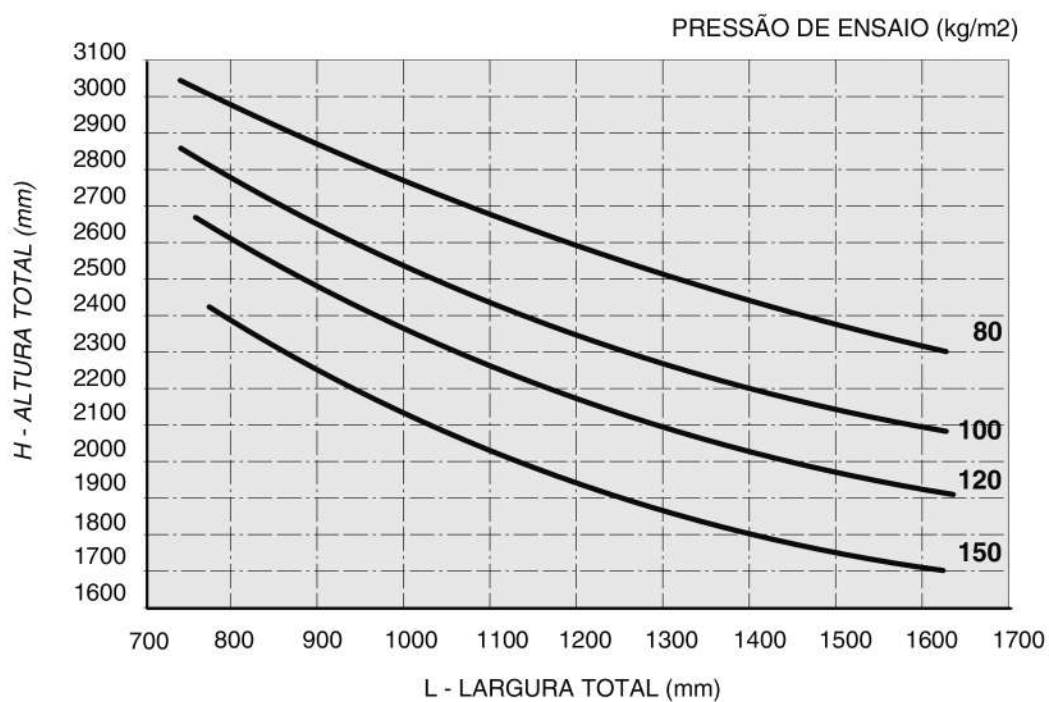


LG-0080

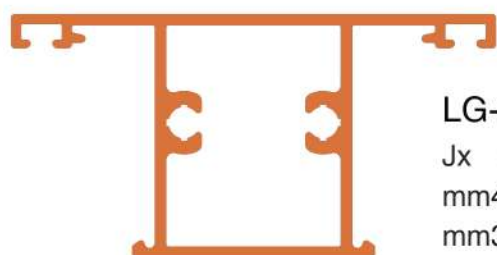
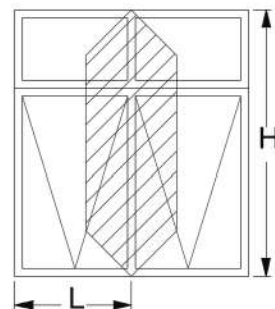
$J_x = 269\,390 \text{ mm}^4$

$W_x = 5\,780 \text{ mm}^3$

Dimensão máxima da folha móvel 1200x1200mm



Montante Maxim-ar



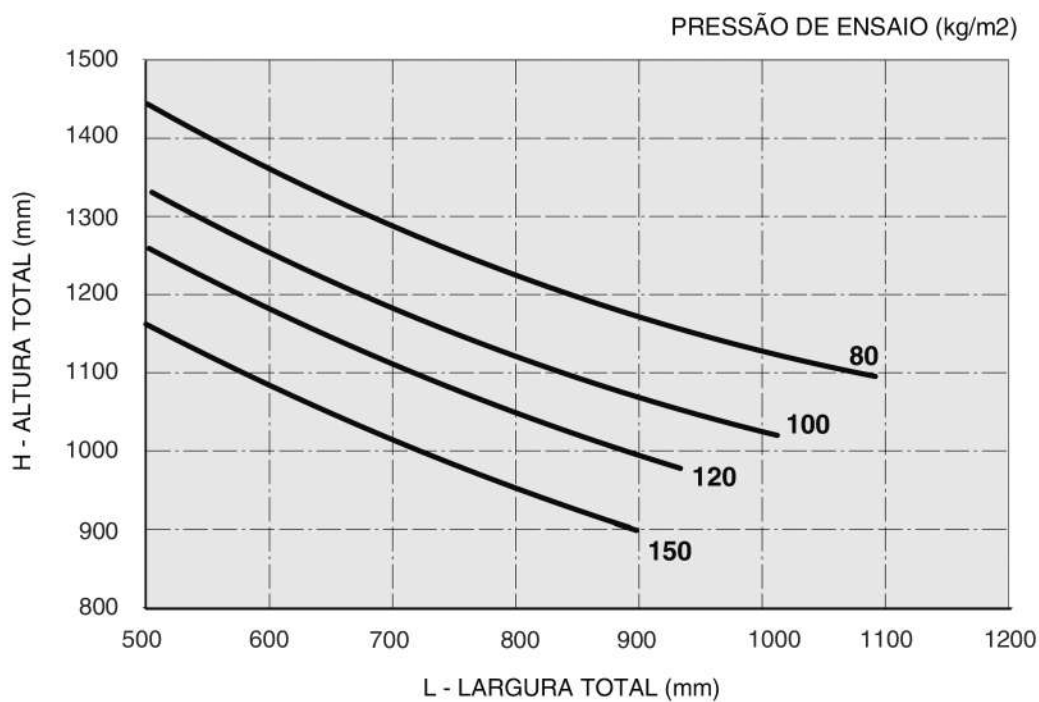
LG-0074

$J_x = 37\,986$

$mm^4 W_x = 1\,939$

mm^3

Dimensão máxima da folha móvel 1200x1200mm

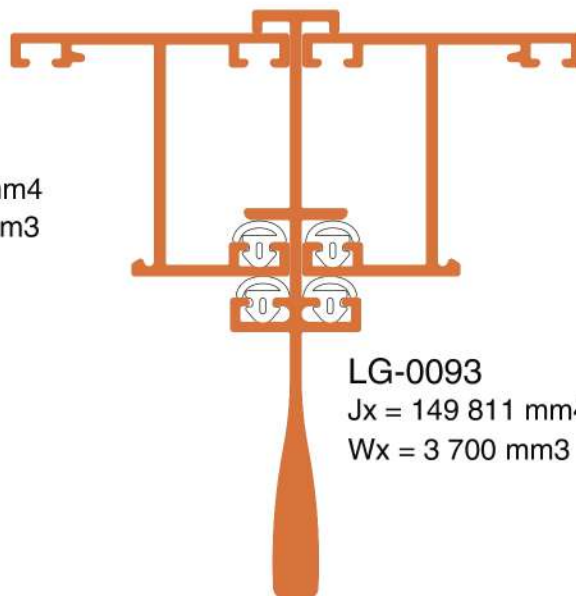


Montante Maxim-ar

LG-0068

$Jx = 24\ 853\ \text{mm}^4$

$Wx = 1\ 301\ \text{mm}^3$



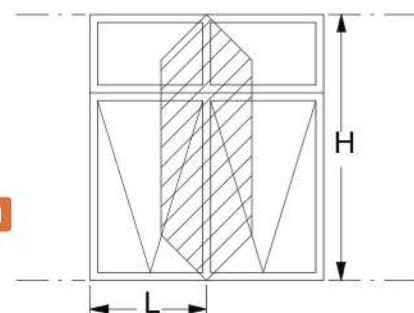
LG-0093

$Jx = 149\ 811\ \text{mm}^4$

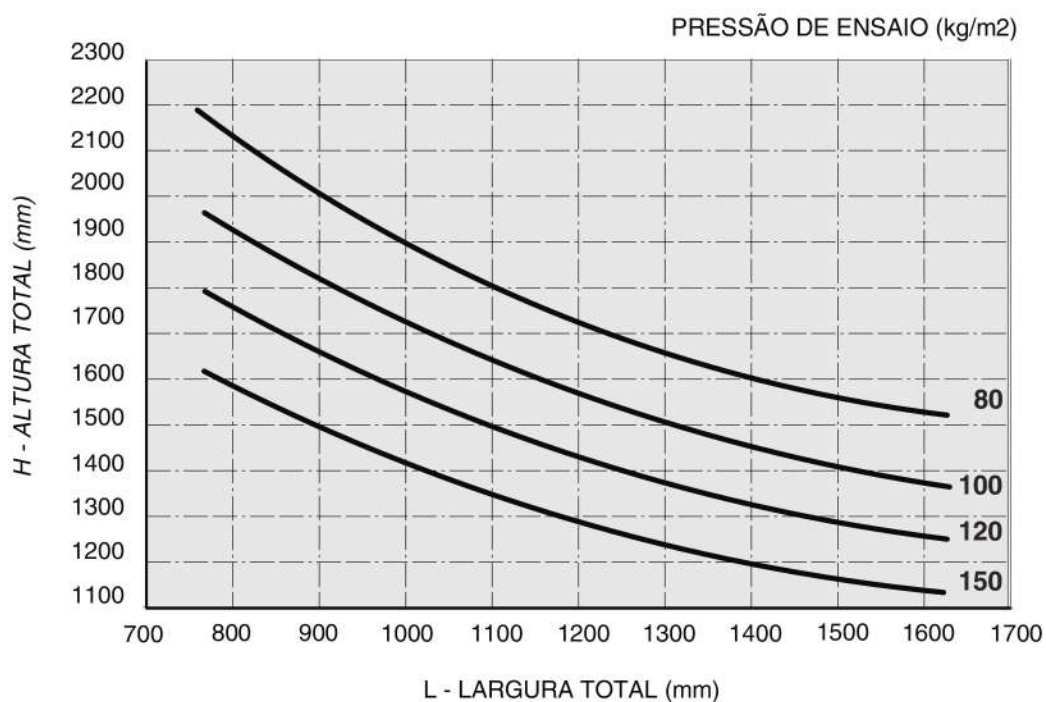
$Wx = 3\ 700\ \text{mm}^3$

$Jxt = 199\ 517\ \text{mm}^4$

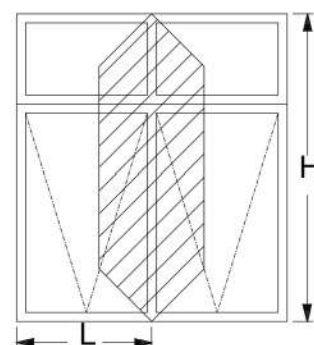
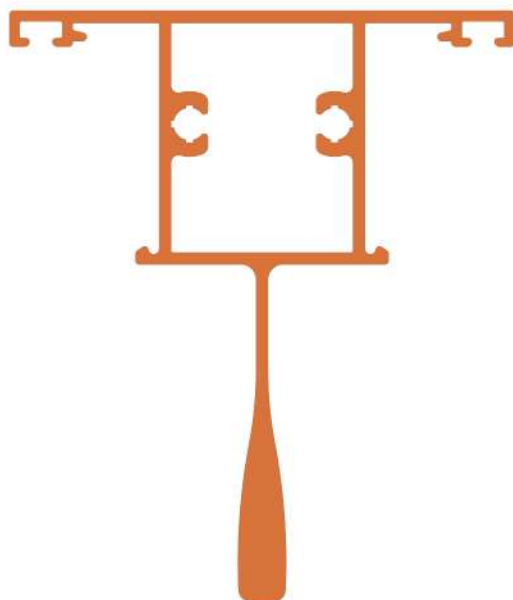
$Wxt = 6\ 302\ \text{mm}^3$



Dimensão máxima da folha móvel 1200x1200mm



Montante Maxim-ar

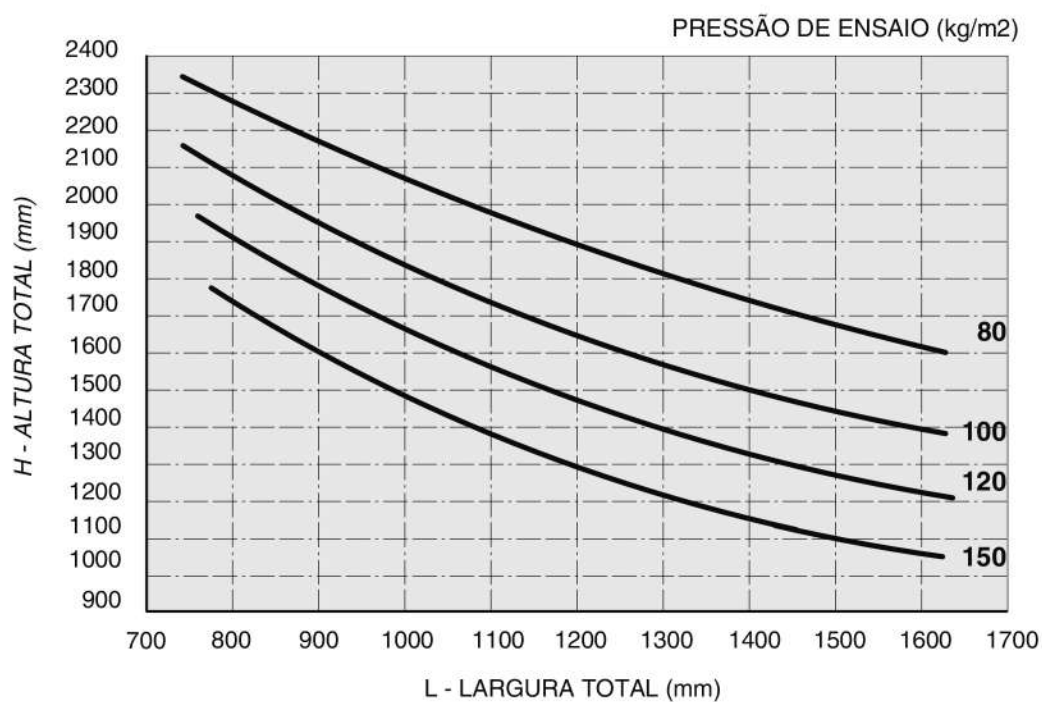


LG-0075

$J_x = 269\,390 \text{ mm}^4$

$W_x = 5\,780 \text{ mm}^3$

Dimensão máxima da folha móvel 1200x1200mm



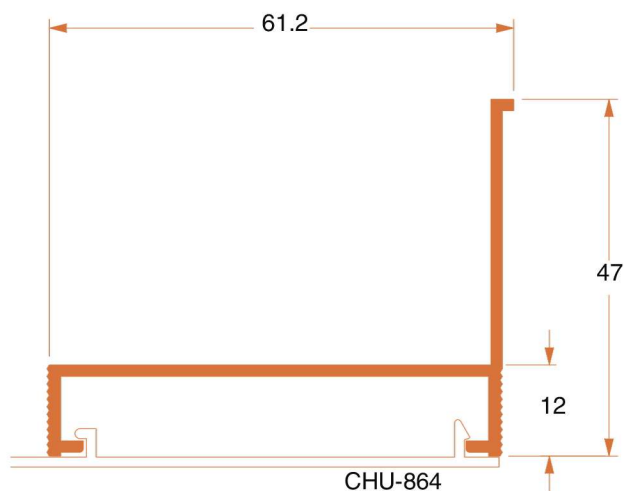


Capítulo 5

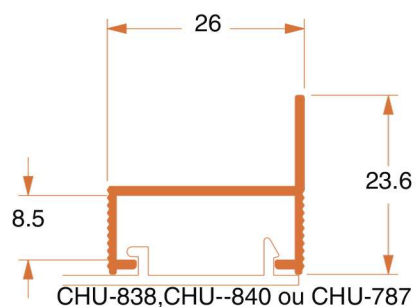
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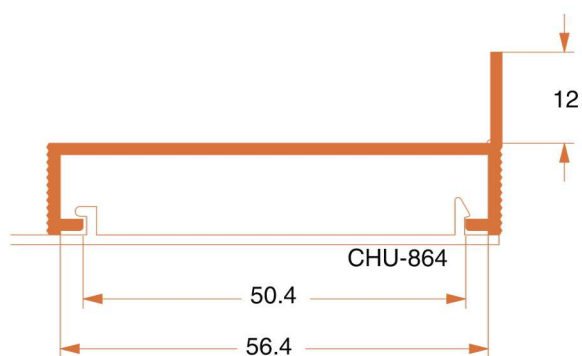
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UN-0004	6
UN-0018	5
UN-0036	6
US-285	5
VL-0055	6
VZ-006	6
	6
	5
	4
	1
	6



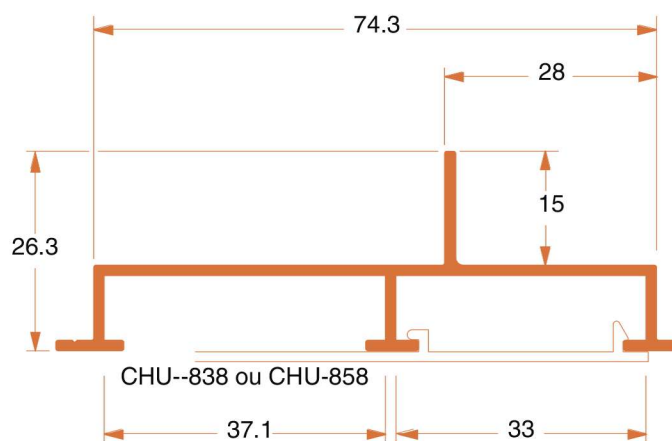
● **CM-173**
0,509 kg/m



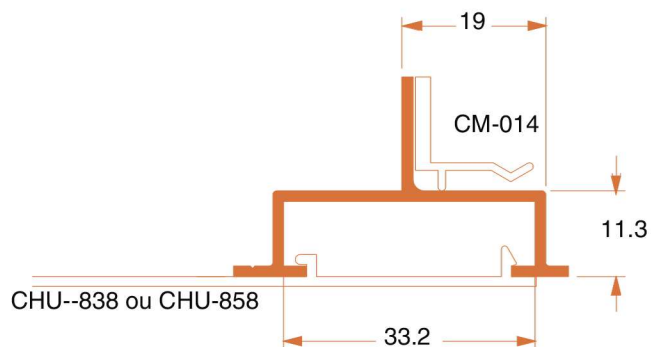
● **CM-200**
0,198 kg/m



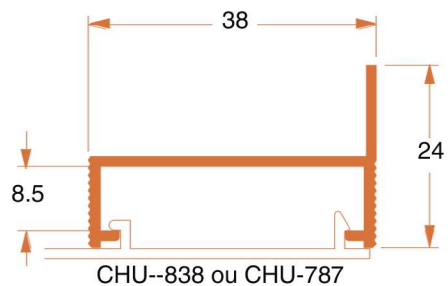
● **CM-174**
0,409 kg/m



● **CM-125**
0,528 kg/m



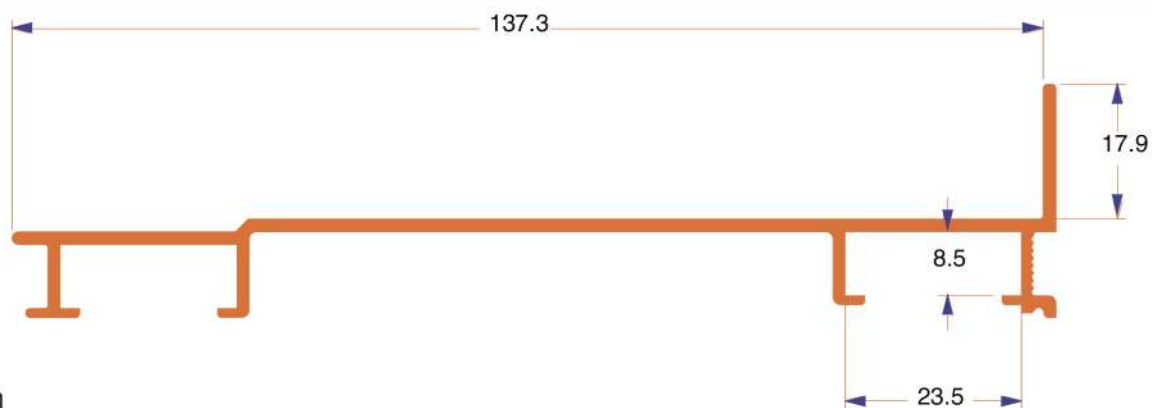
● **CM-004**
0,304 kg/m



● **CM-060**
0,276 kg/m

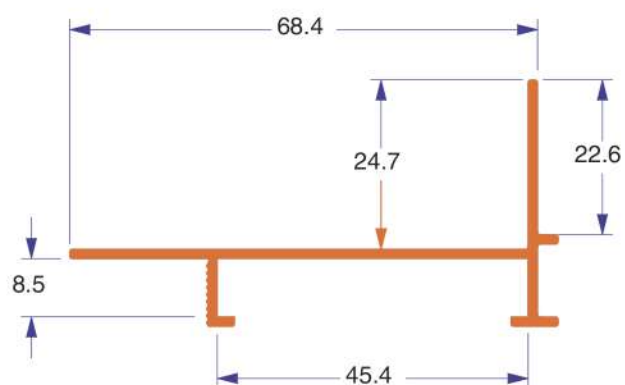
CM-168

0.957 kg/m



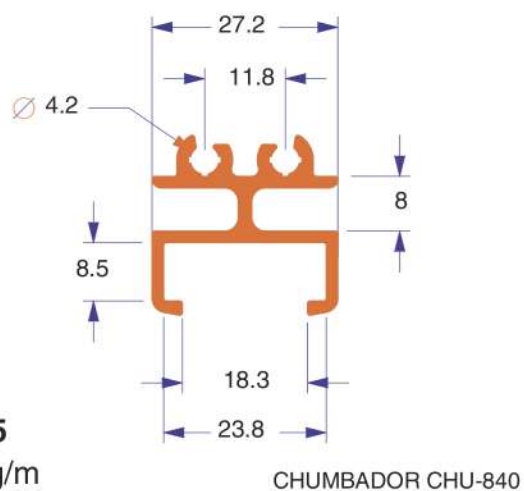
VL-0055

0.470 kg/m



LG-0095

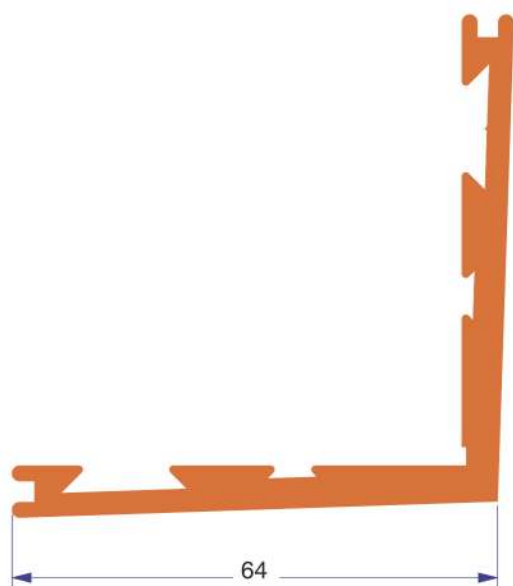
0.537 kg/m



CHUMBADOR CHU-840

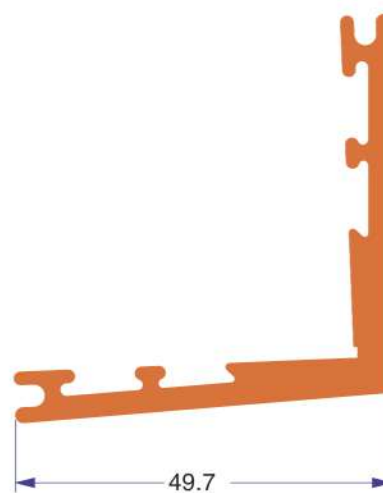
CL-009

1.616 kg/m



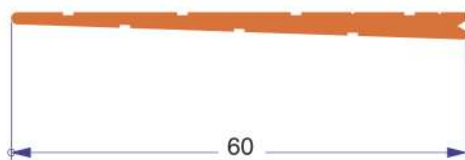
CL-006

1.112 kg/m



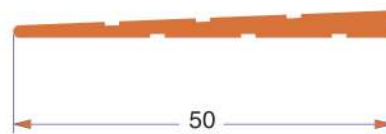
CL-010

0.385 kg/m

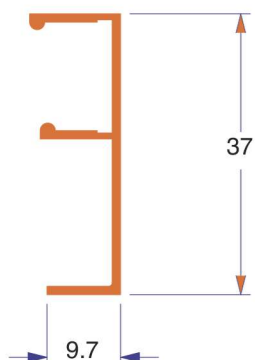


CL-011

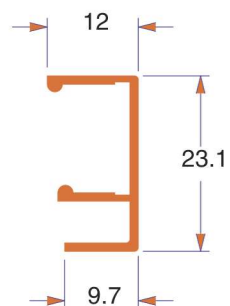
0.319 kg/m



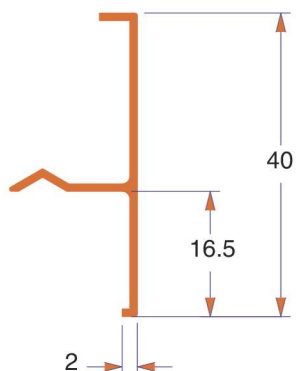
●
MP-347
0,202 kg/m



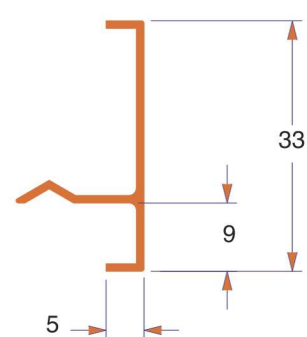
●
ME-092
0,160 kg/m



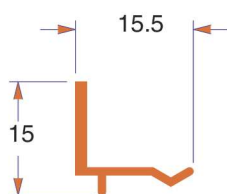
●
CM-006
0,168 kg/m



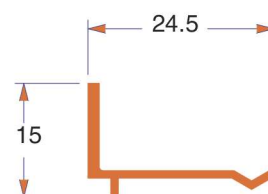
●
CM-007
0,156 kg/m



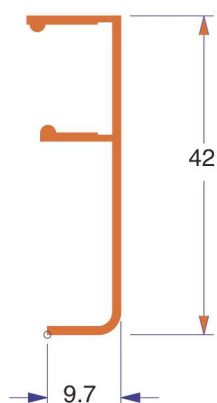
●
CM-014
0,097 kg/m



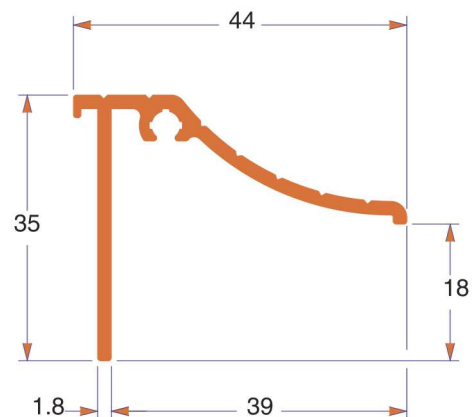
●
CM-013
0,121 kg/m

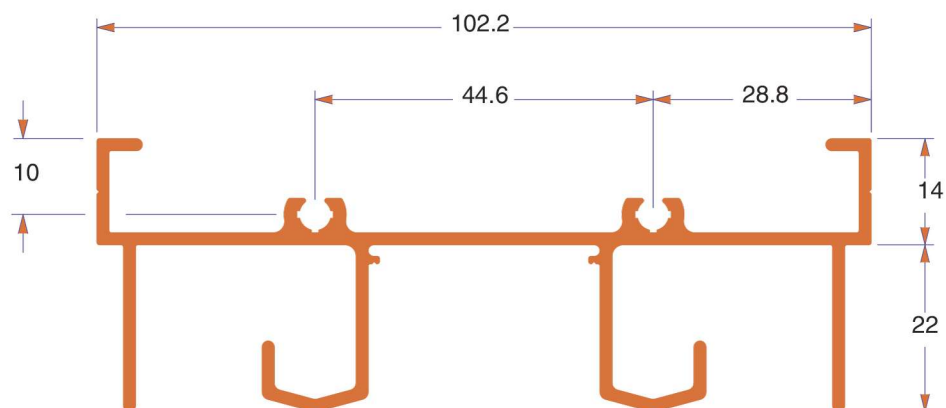


●
MN-014
0,214 kg/m

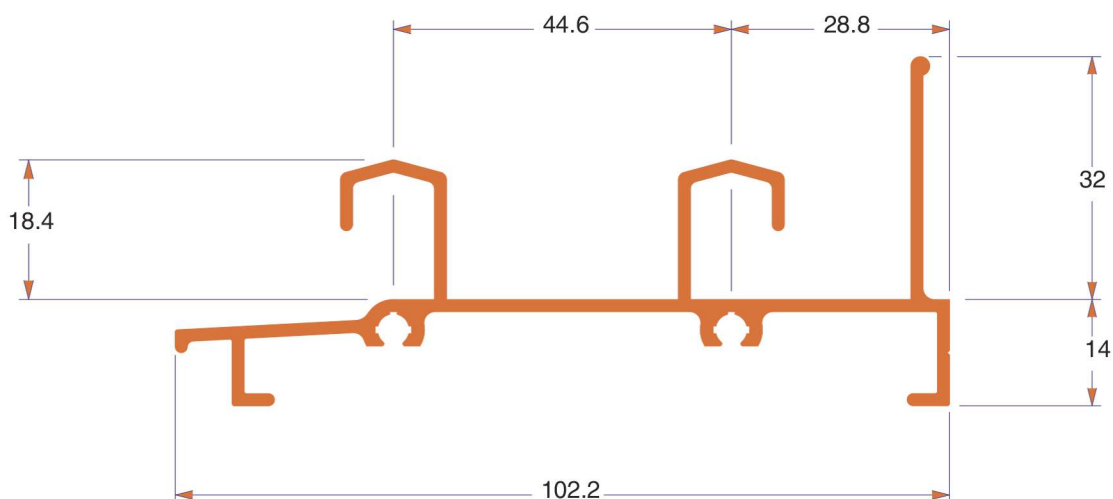


●
CM-169
0,431 kg/m

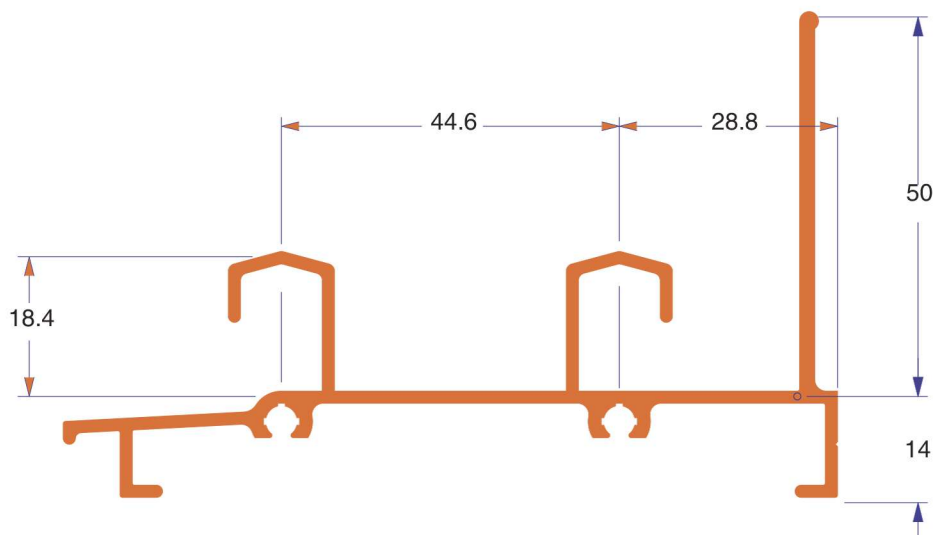




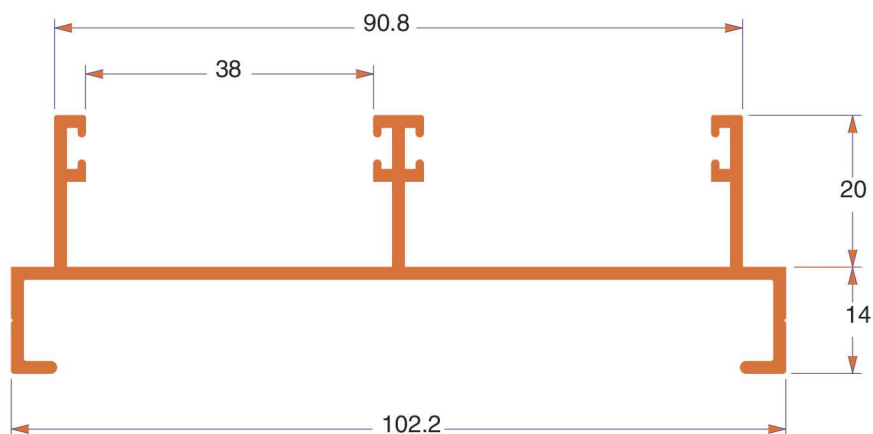
LG-044
1.247 kg/m



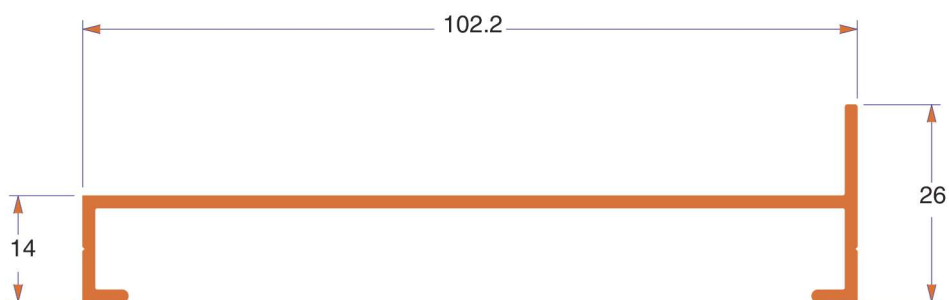
LG-047
1.133 kg/m



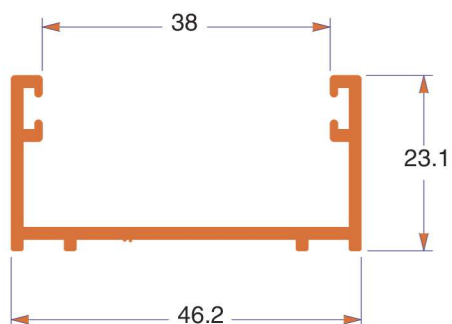
LG-024
1.264 kg/m



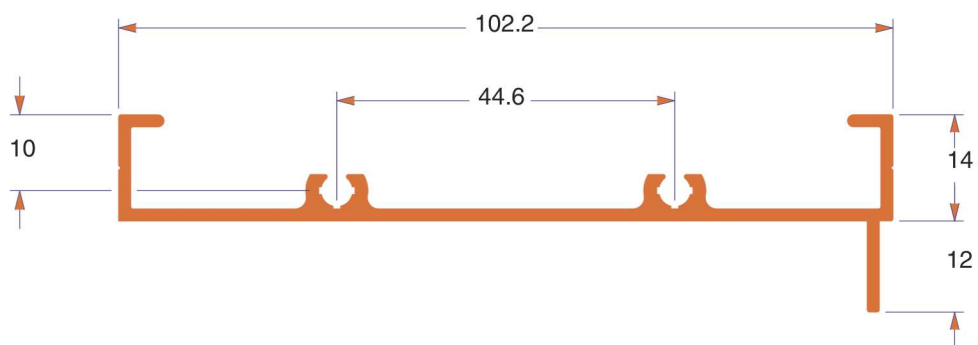
LG-045
0.957 kg/m



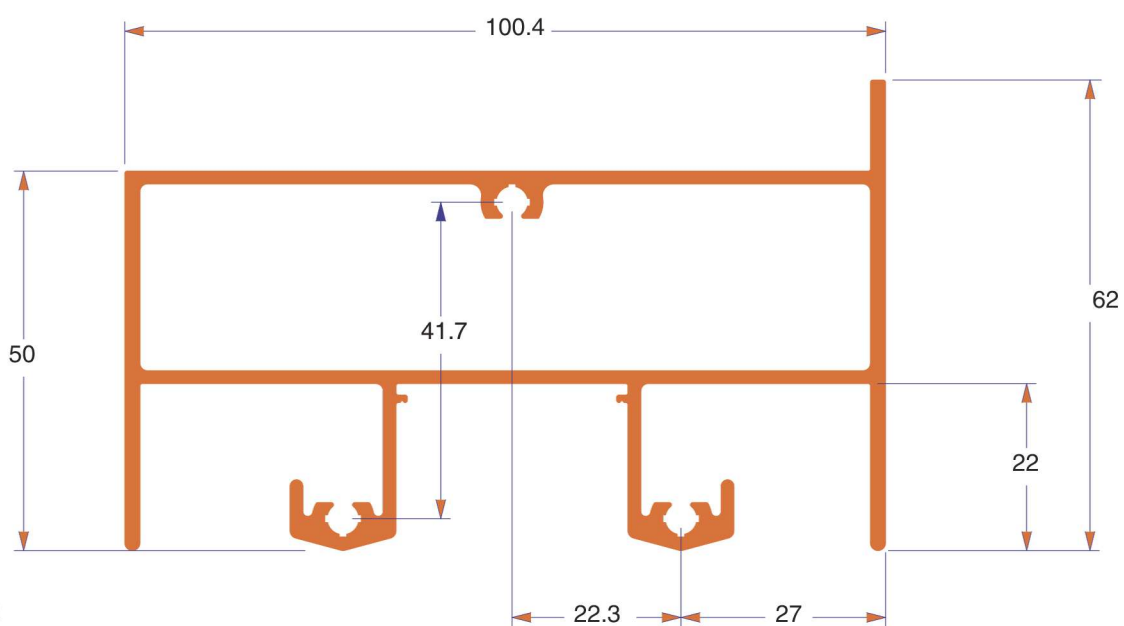
LG-002
0.639 kg/m



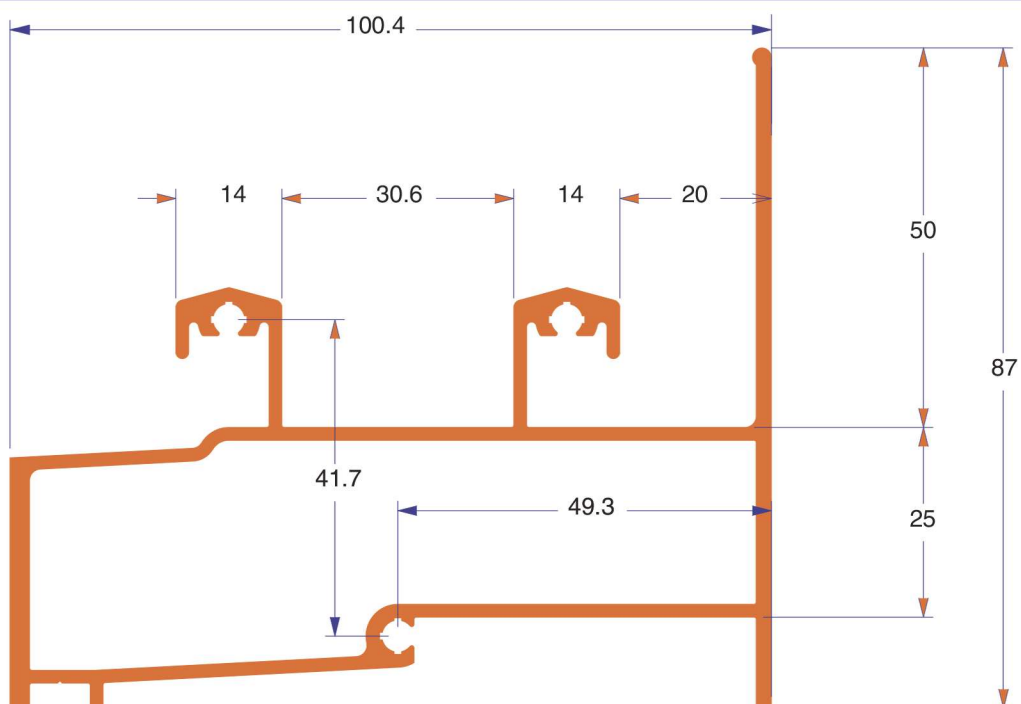
LG-028
0.455 kg/m



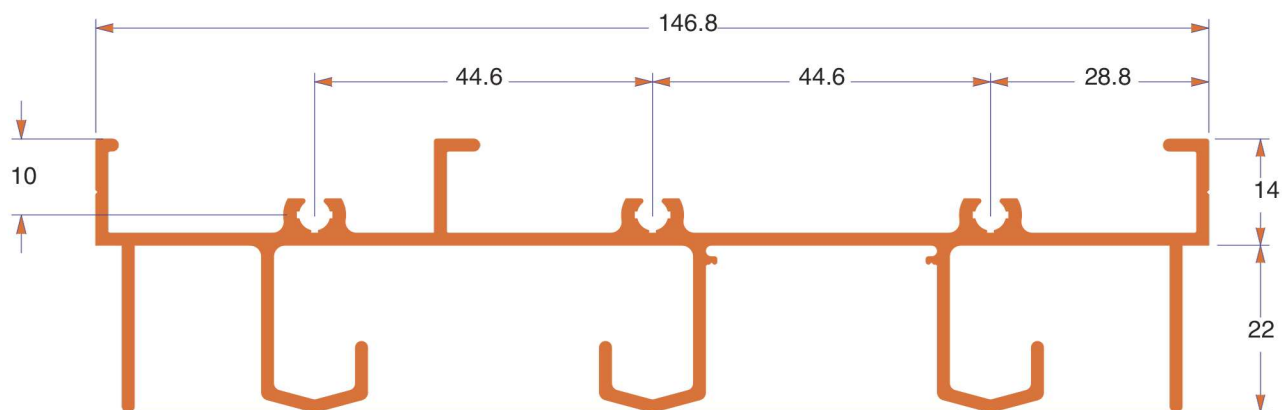
●
LG-003
0,757 kg/m



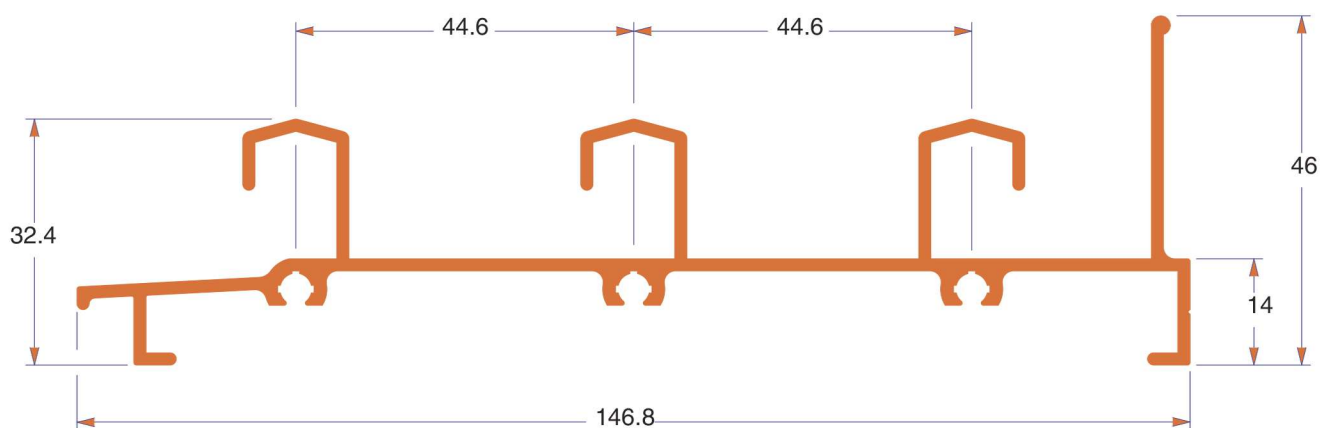
●
LG-004
2.035 kg/m



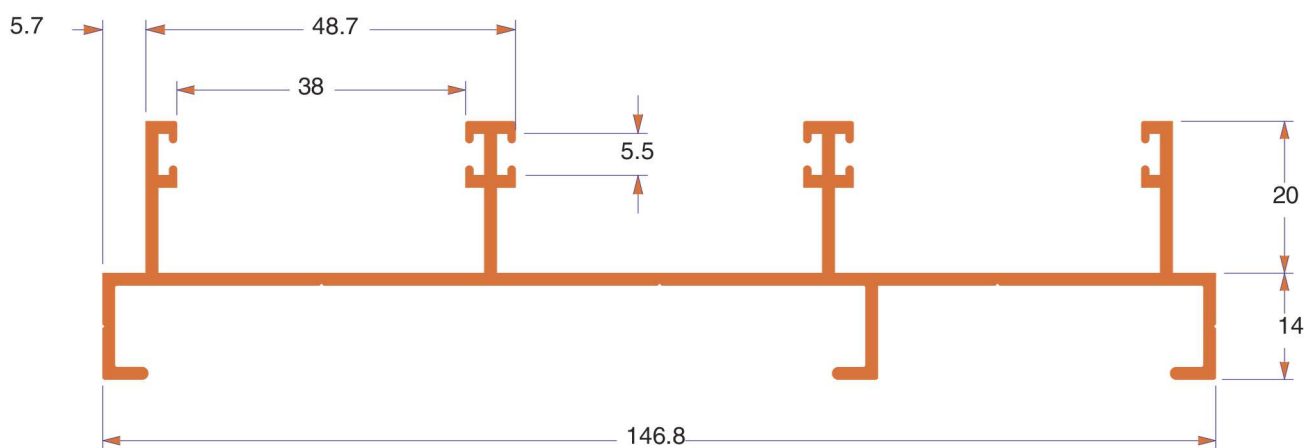
●
LG-005
2.104 kg/m



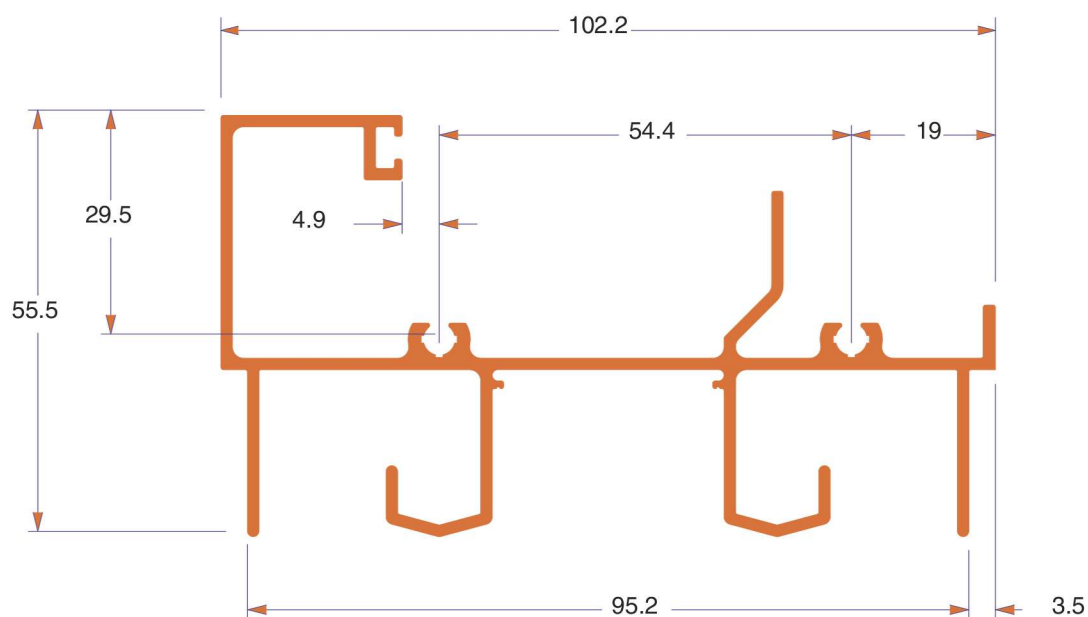
● **LG-062**
1,728 kg/m



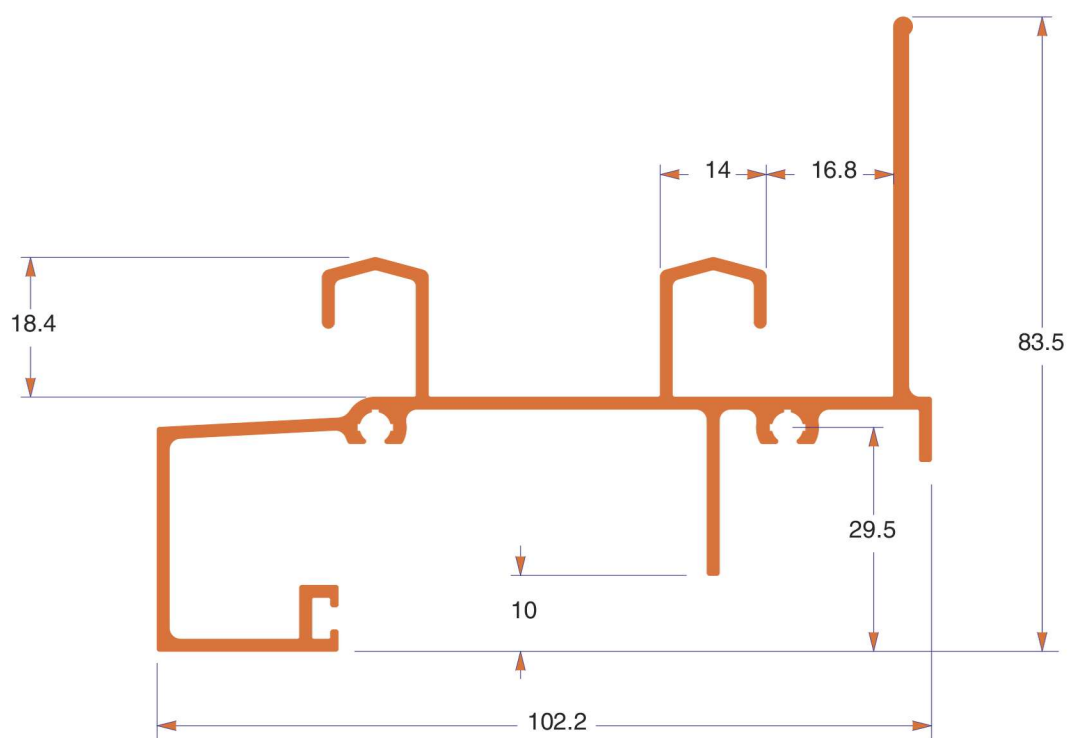
● **LG-066**
1.539 kg/m



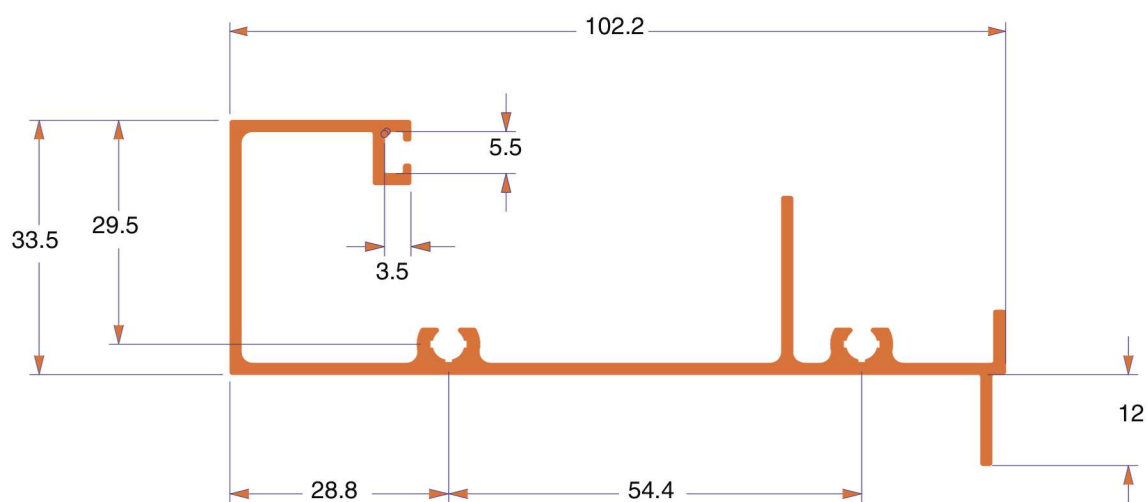
● **LG-064**
1.358 kg/m



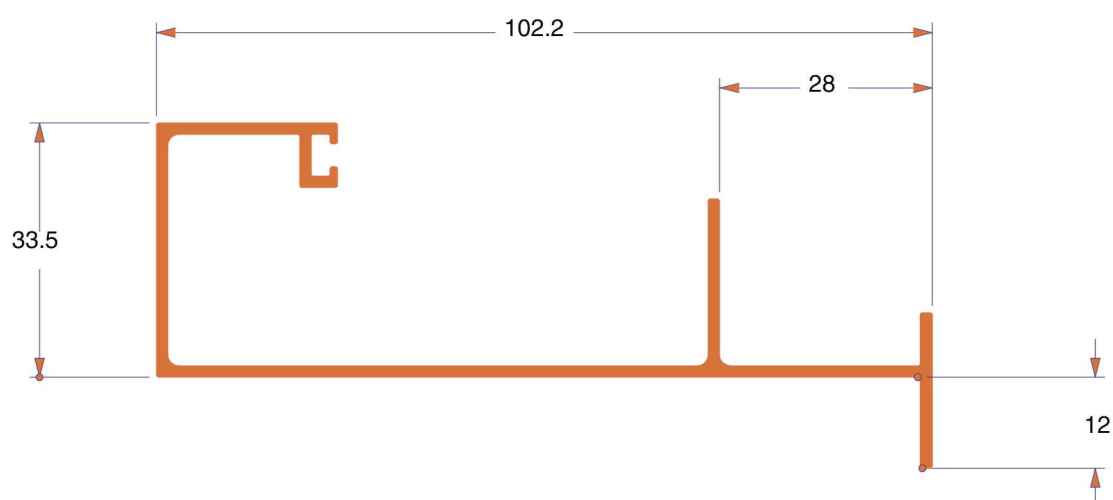
●
LG-008
1.450 kg/m



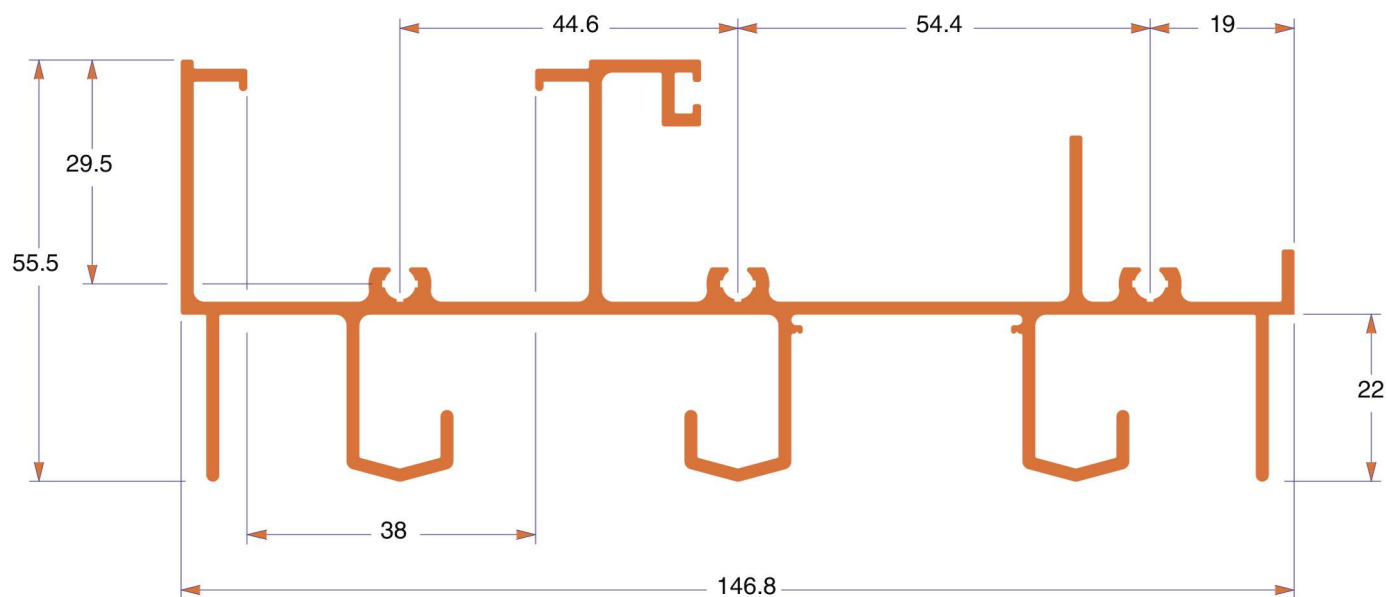
●
LG-025
1.533 kg/m



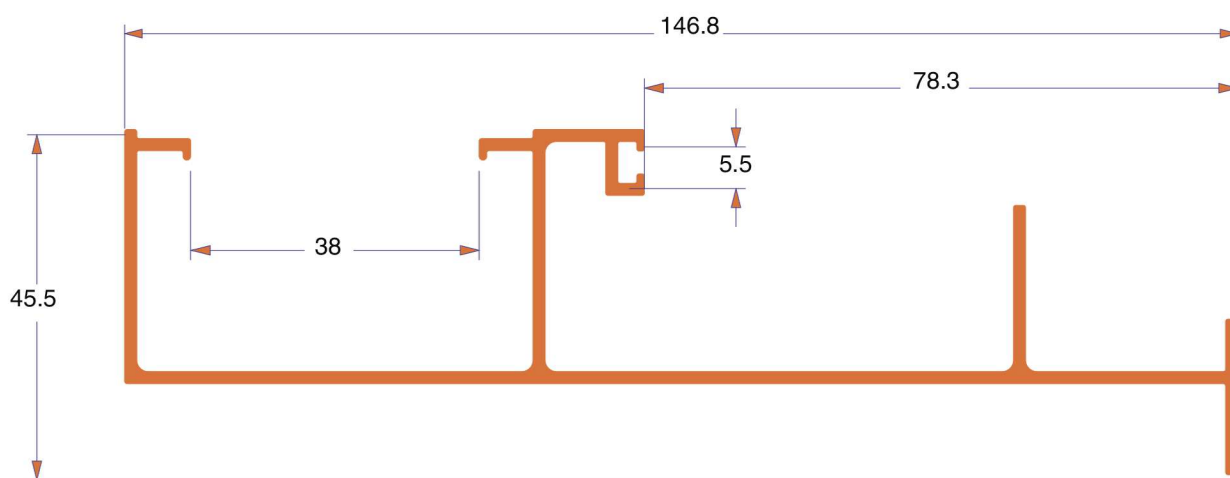
●
LG-009
0.981 kg/m



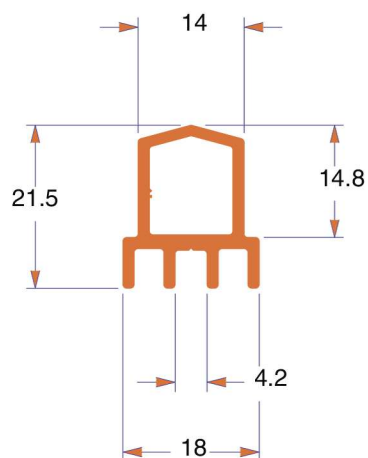
●
LG-010
0.863 kg/m



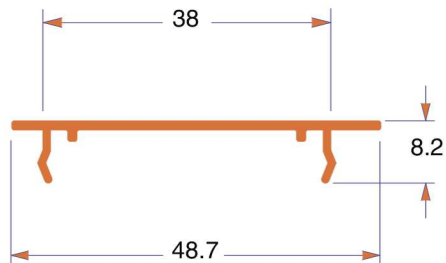
●
LG-011
2.110 kg/m



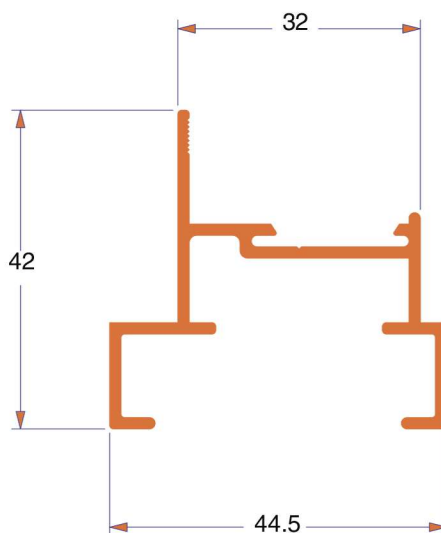
●
LG-014
1.275 kg/m



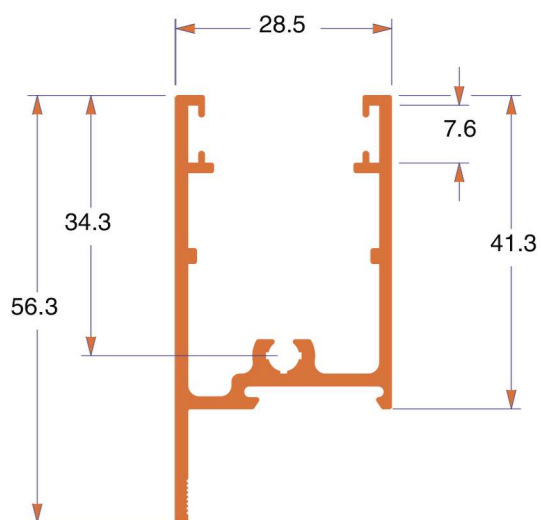
LG-061
0.320 kg/m



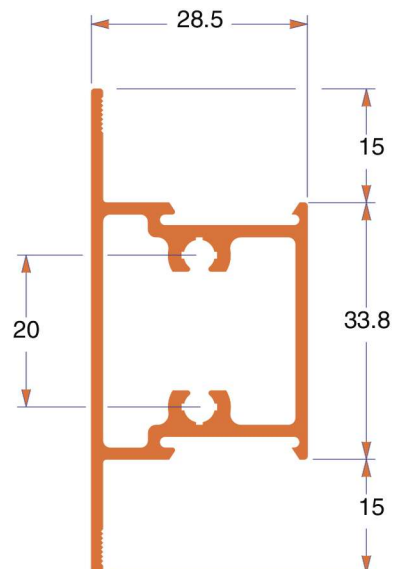
LG-046
0,206 kg/m



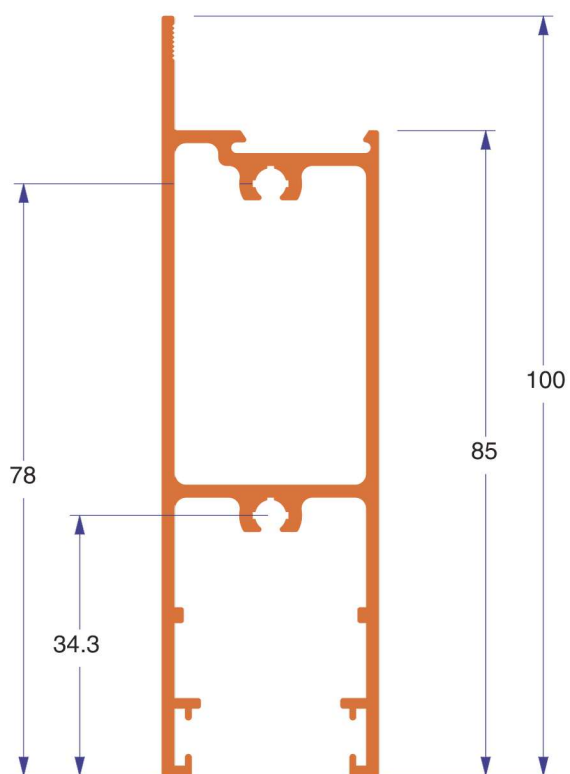
LG-063
0,545 kg/m



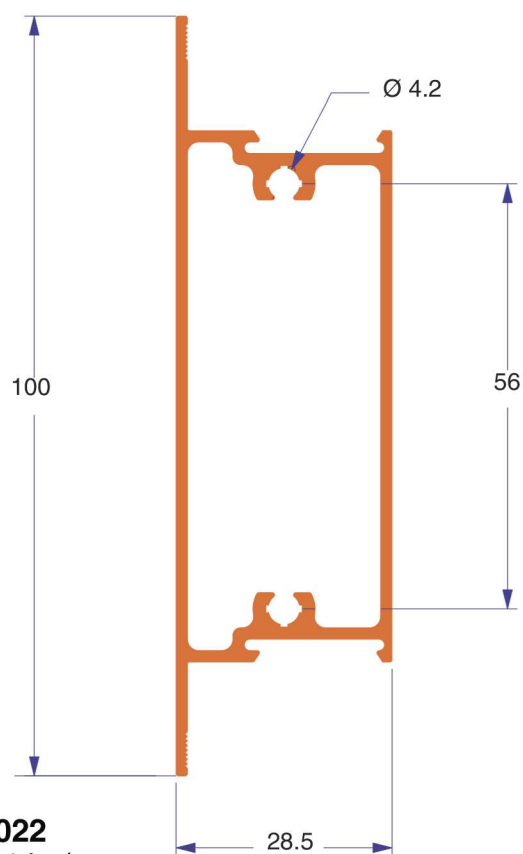
● **LG-006**
0,677 kg/m



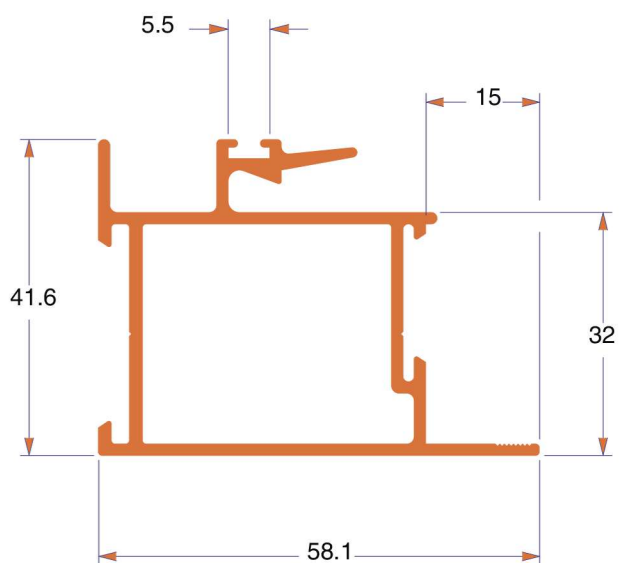
● **LG-055**
0,759 kg/m



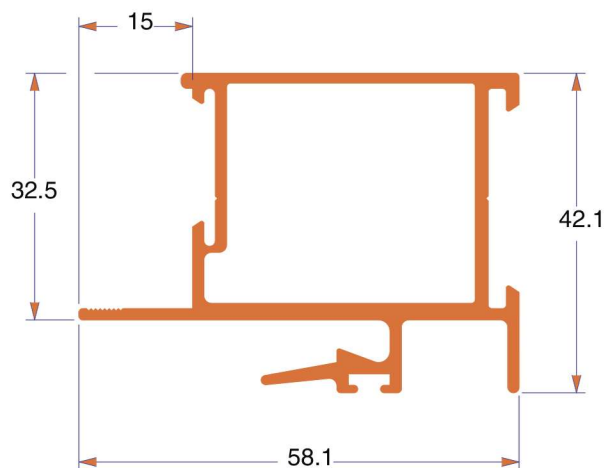
● **LG-007**
1.229 kg/m



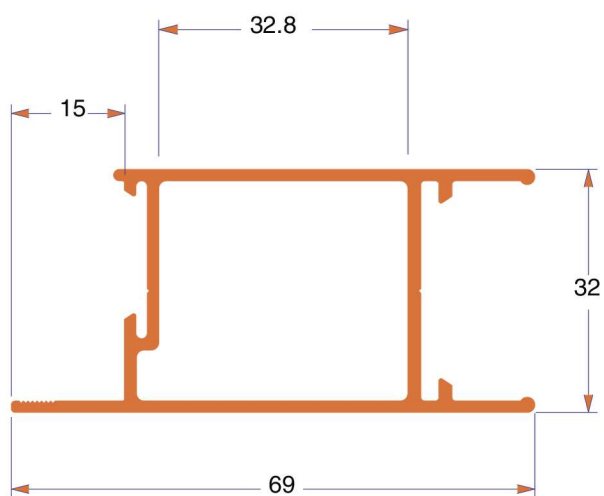
● **LG-022**
1.064 kg/m



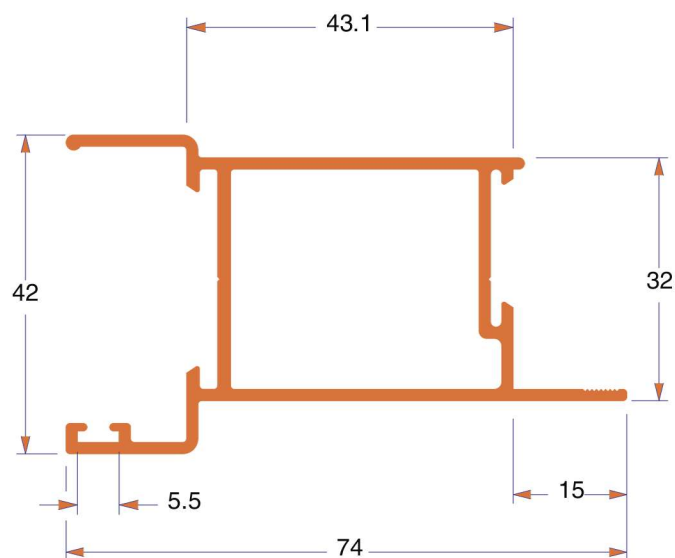
LG-049
0,905 kg/m



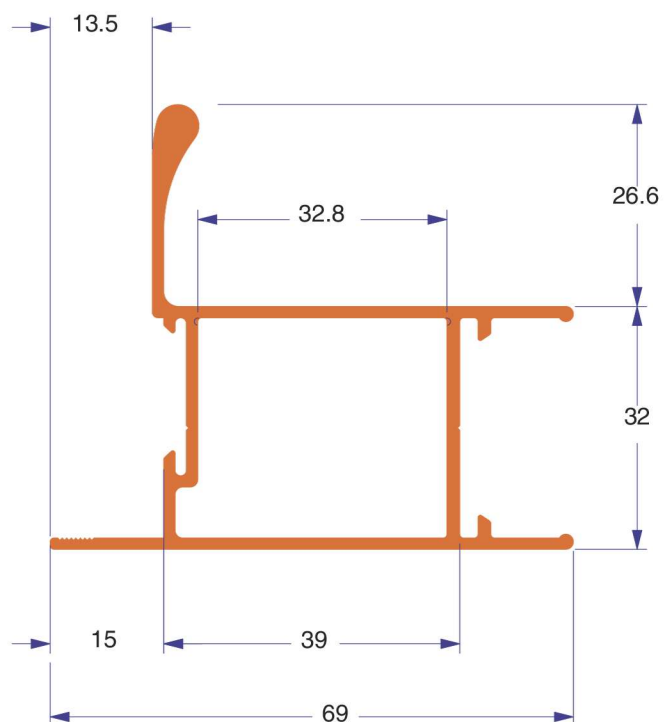
LG-048
0,967 kg/m



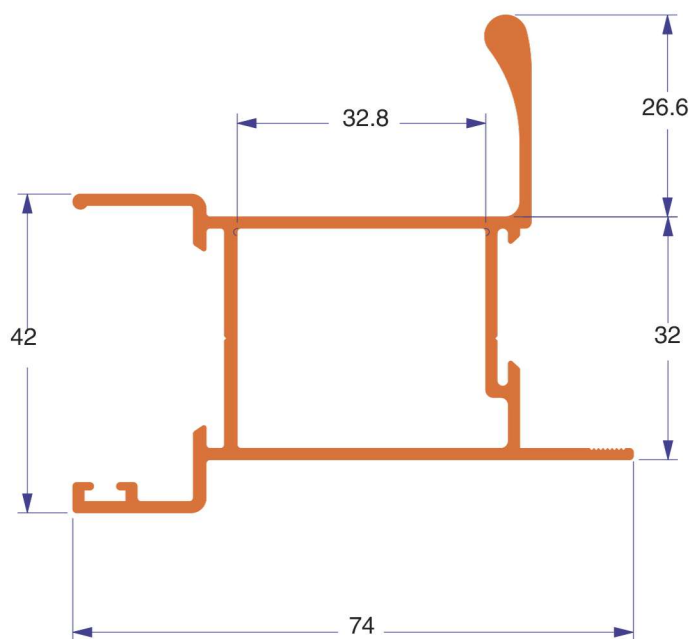
LG-050
0,816 kg/m



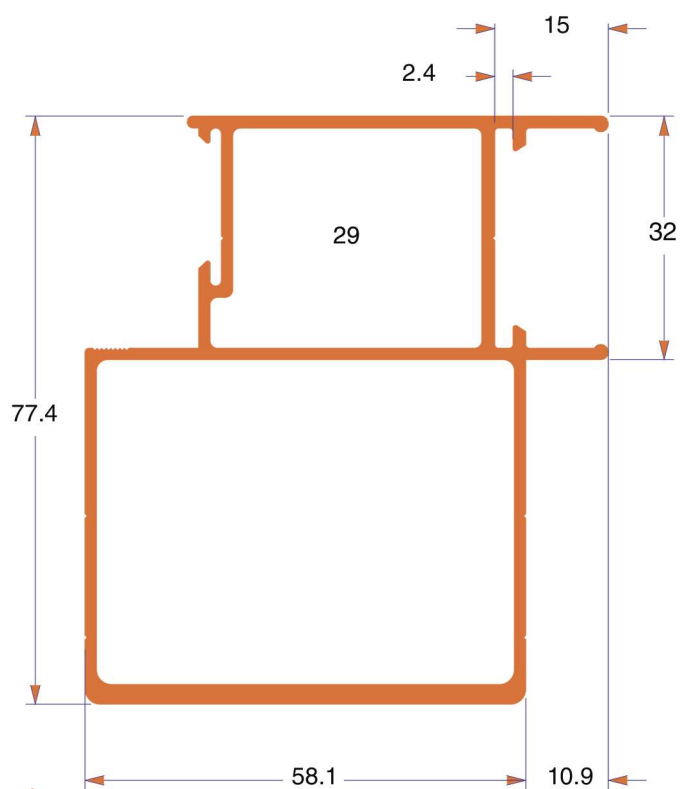
LG-051
0,916 kg/m



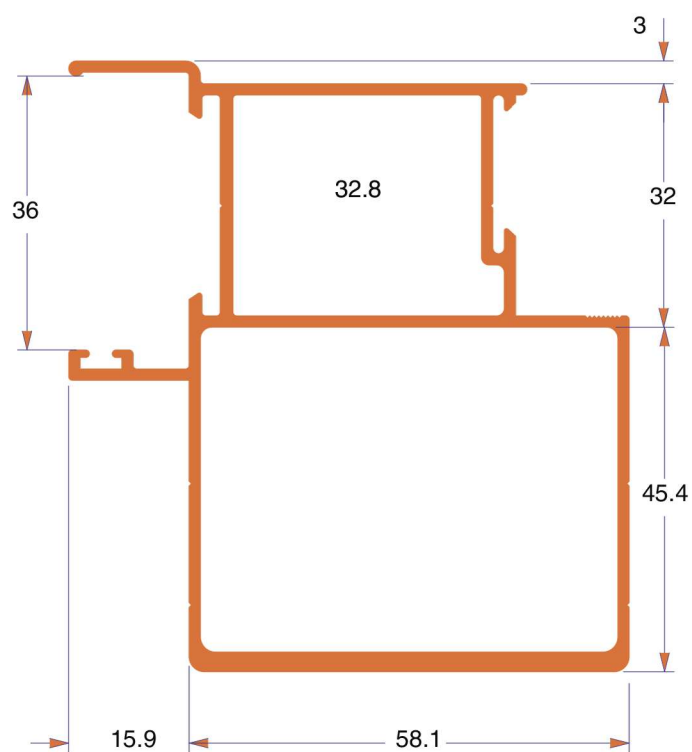
LG-017
1.010 kg/m



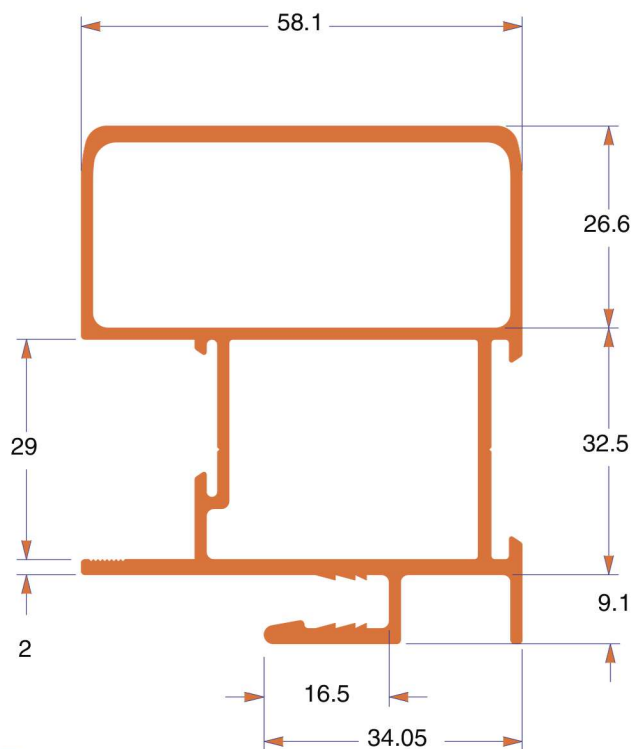
LG-020
1.016 kg/m



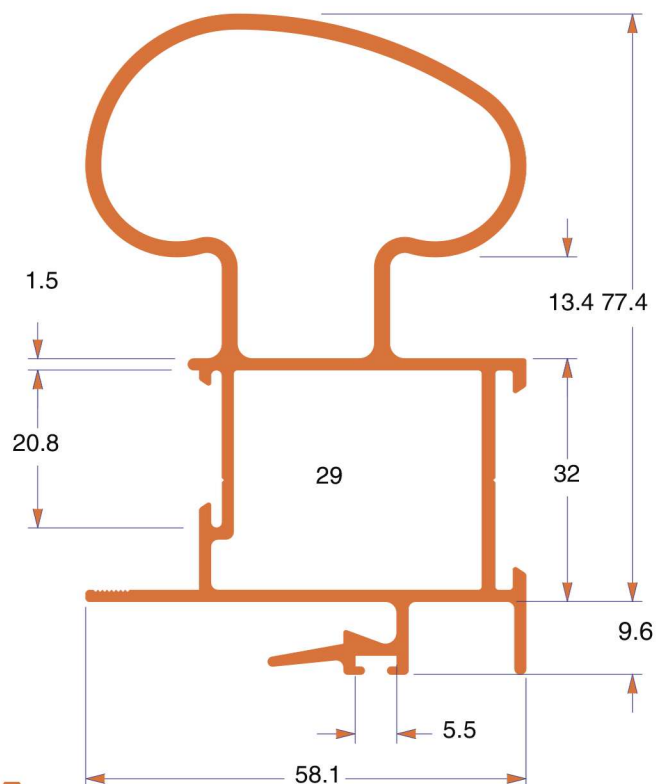
LG-054
1.575 kg/m



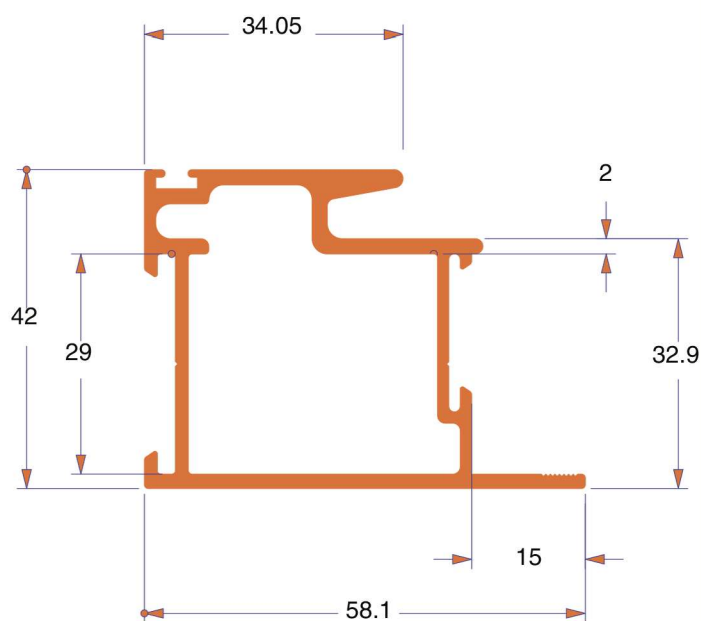
LG-053
1.650 kg/m



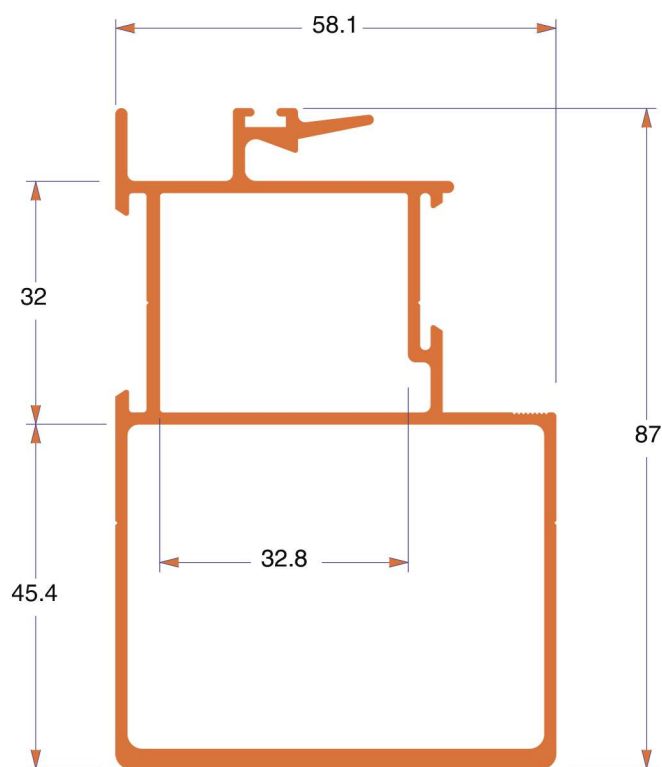
LG-018
1.572 kg/m



LG-021
1.733 kg/m

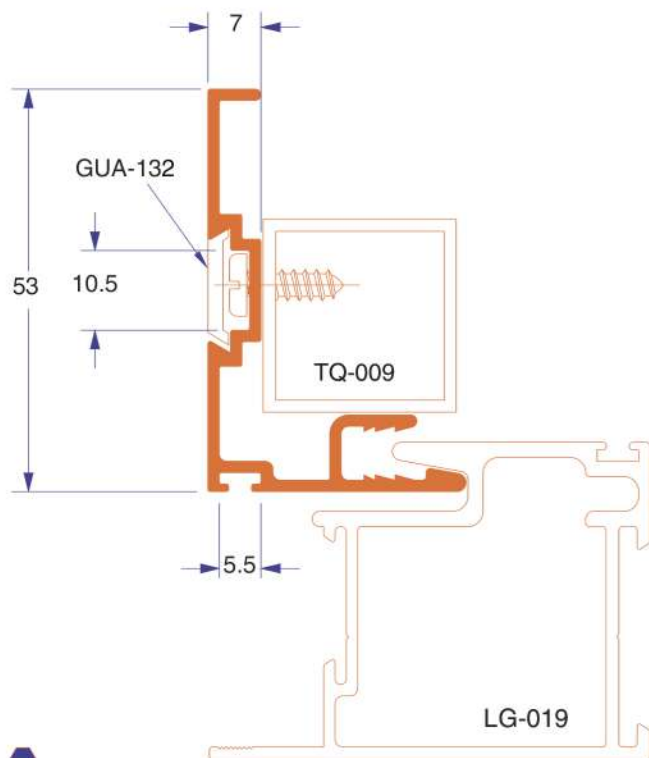


LG-019
1.080 kg/m

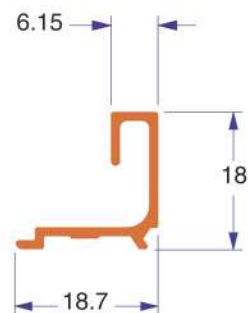


LG-052
1.669 kg/m

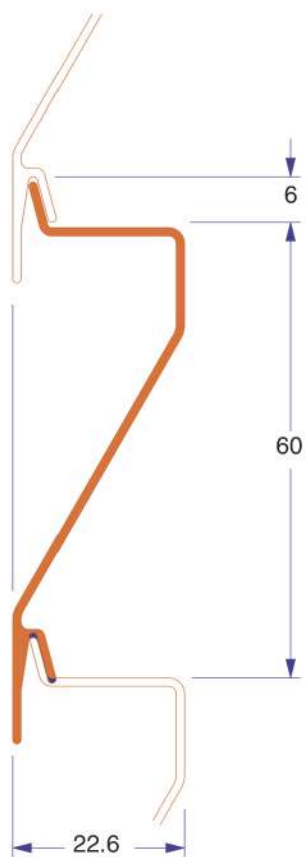
Observação: Porta palheta VZ-006 / US-258



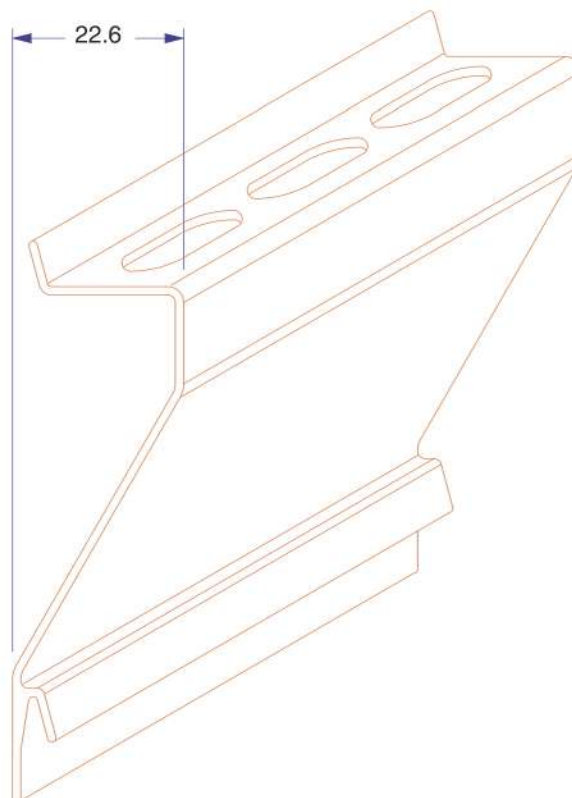
LG-023
0.551 kg/m



LG-027
0.149 kg/m

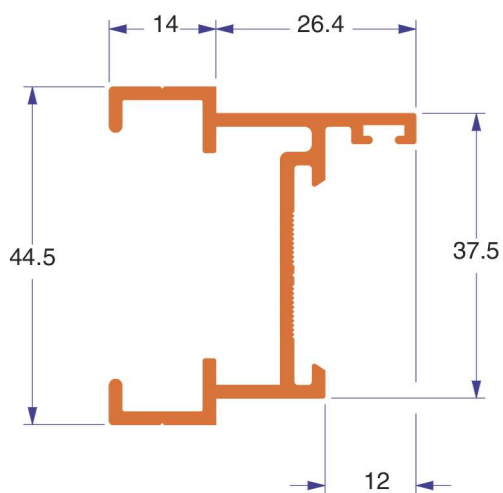


VZ-006
0.326 kg/m

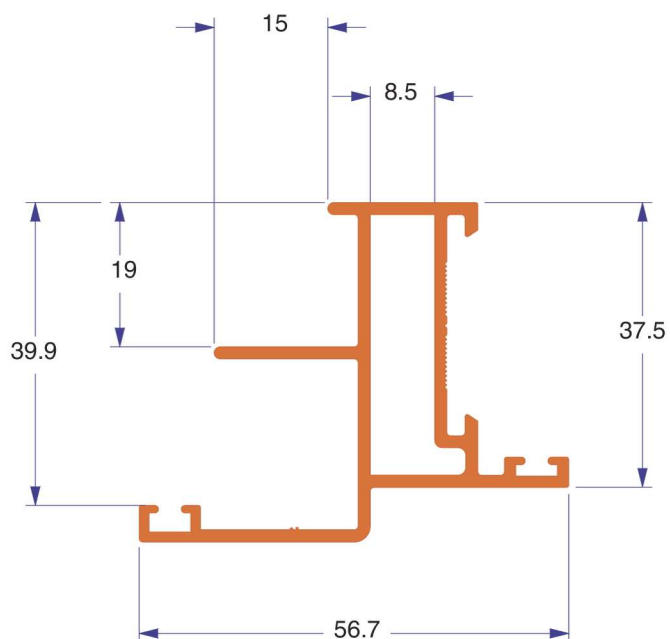


US-285
0.326 kg/m

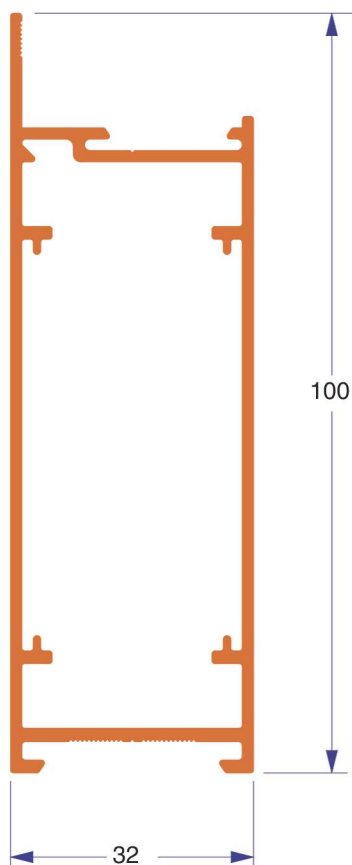
Ventilada



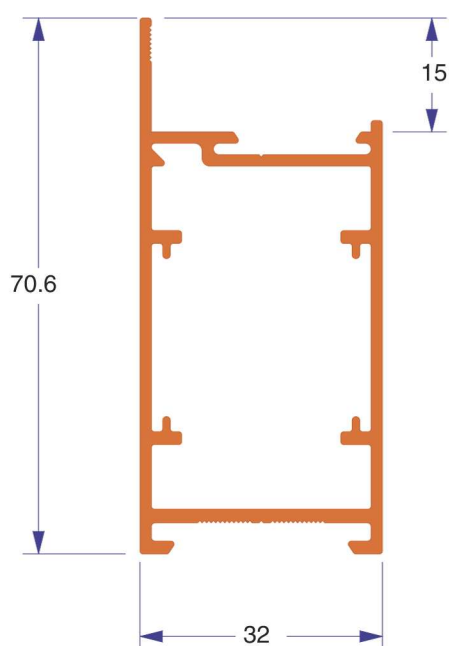
● **LG-056**
0,664 kg/m



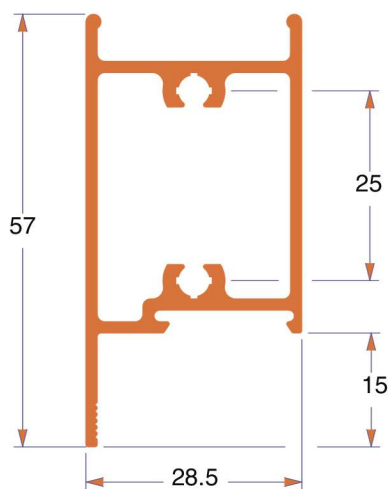
● **30-298**
0,824 kg/m



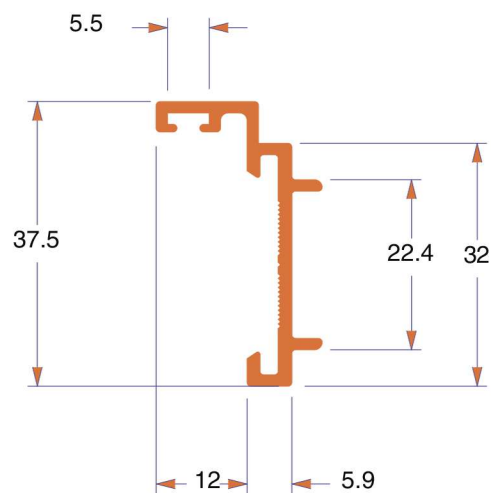
● **LG-042**
1.169 kg/m



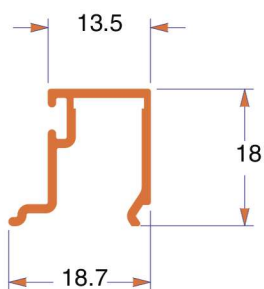
● **LG-043**
0,930 kg/m



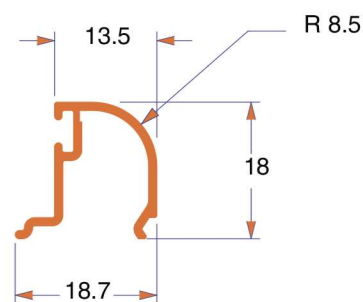
● **LG-058**
0,759 kg/m



● **LG-016**
0,338 kg/m

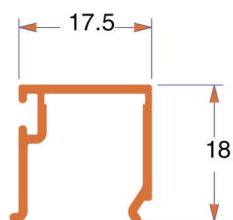


● **BG-057**
0,170 kg/m

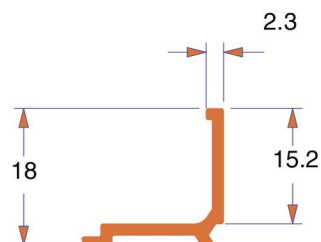


● **LG-026**
0,158 kg/m

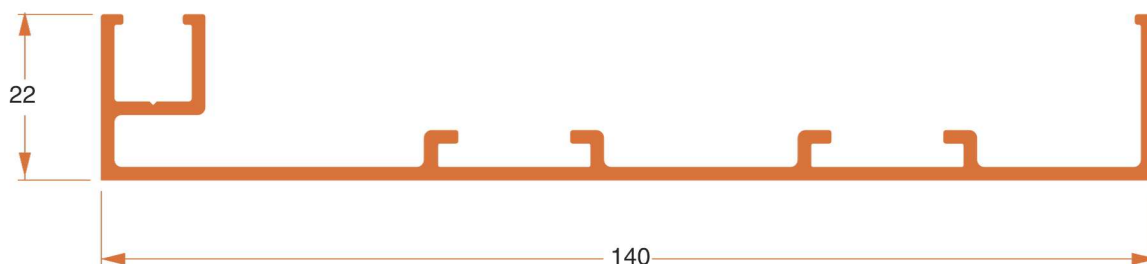
Observação: para vidro duplo termo-acústico



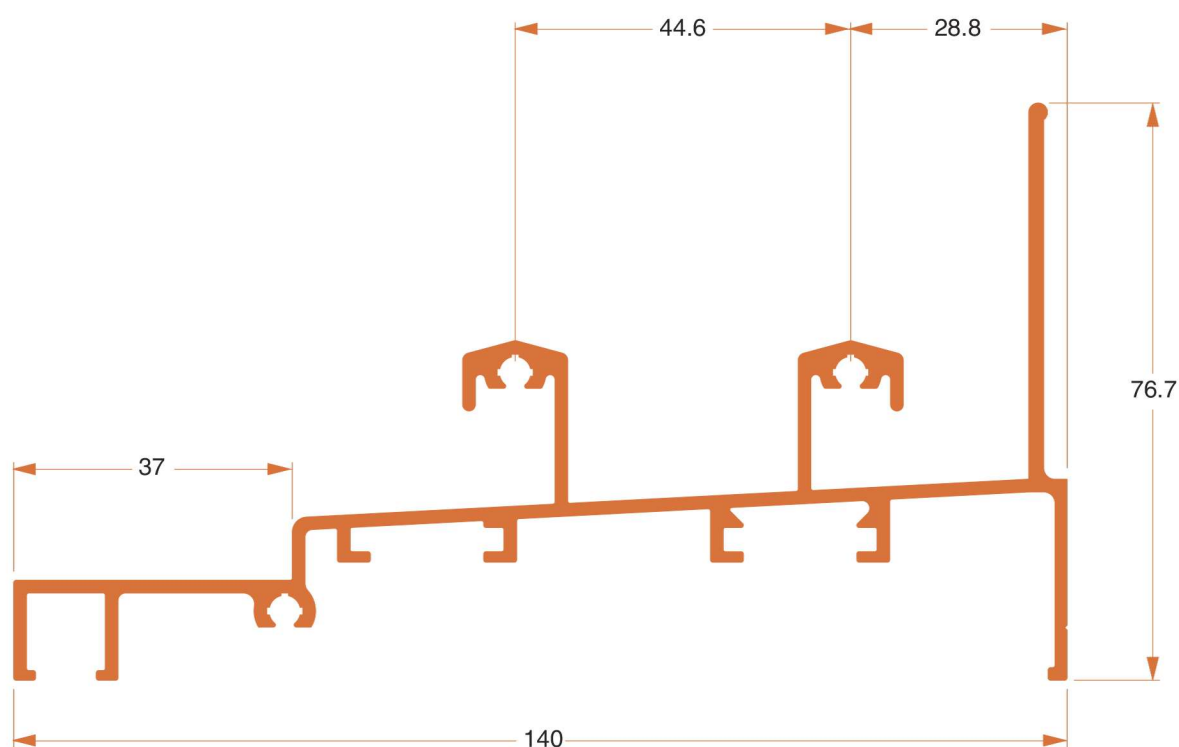
● **LG-059**
0,169 kg/m



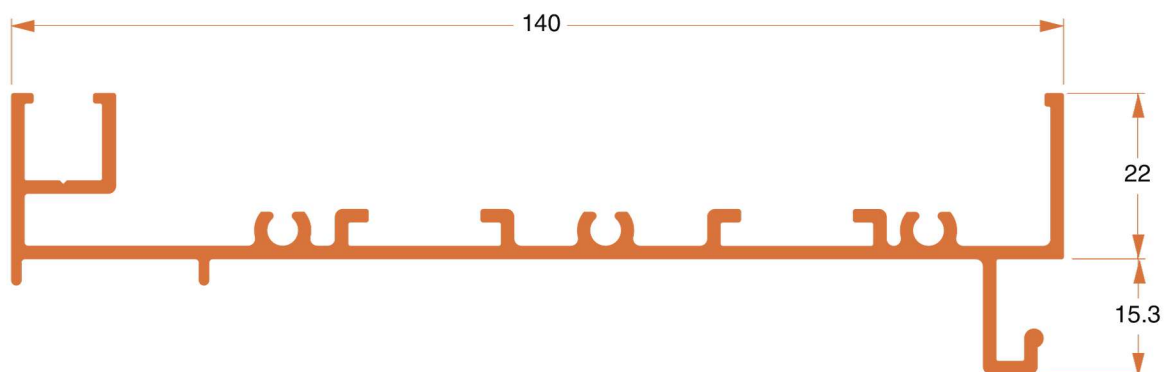
● **LG-015**
0,147 kg/m



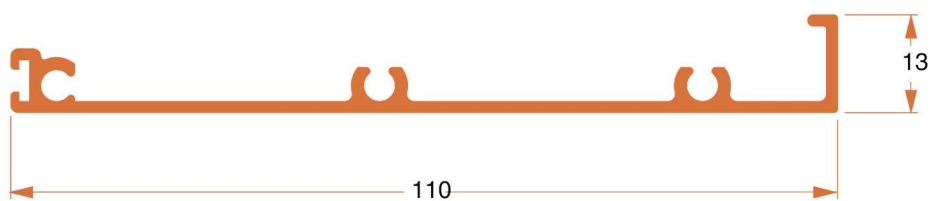
● **MN-003**
1,093 kg/m



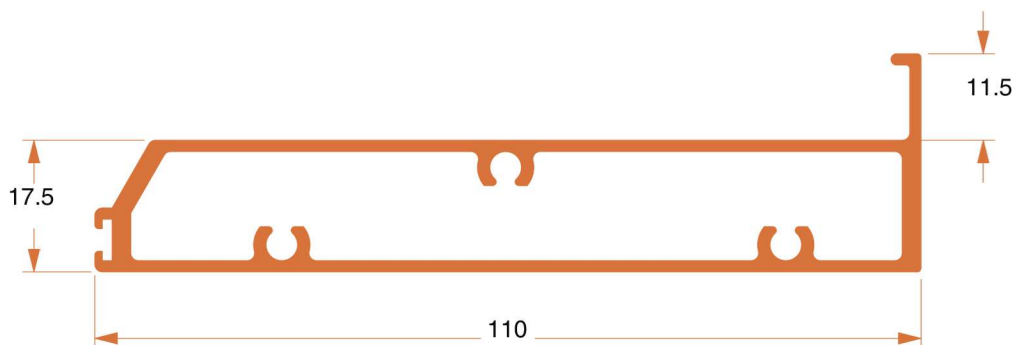
● **MN-030**
1,900 kg/m



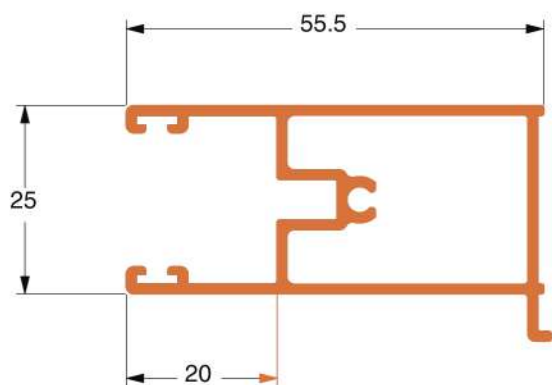
●
MN-001
1,377 kg/m



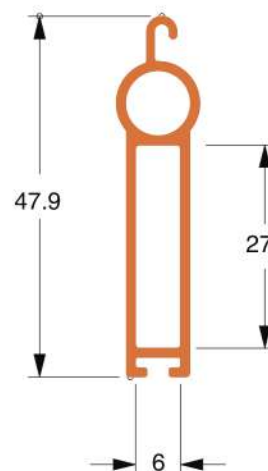
●
MN-002
0,669 kg/m



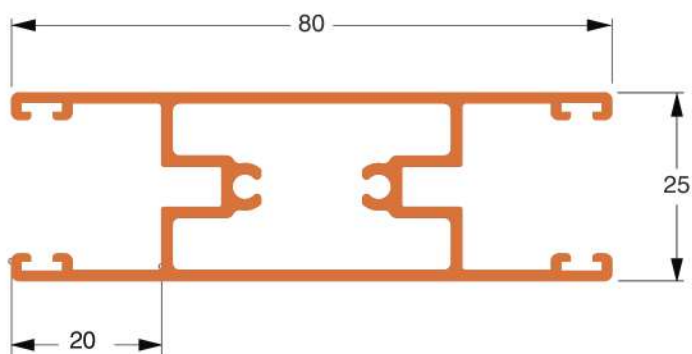
●
MN-041
0,545 kg/m



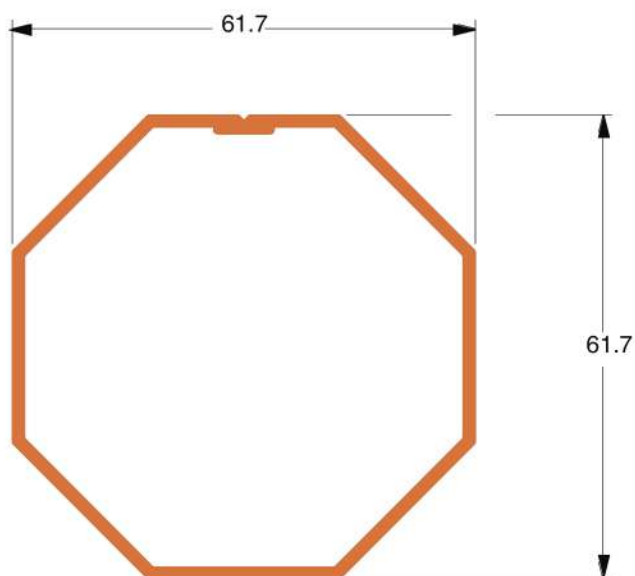
● **MN-007**
0,710 kg/m



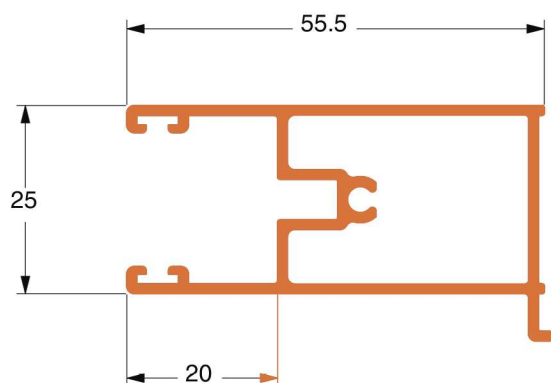
● **MN-0055**
0.371 kg/m



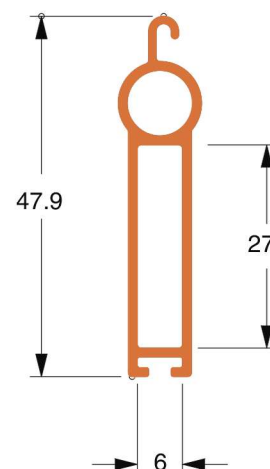
● **MN-027**
1,043 kg/m



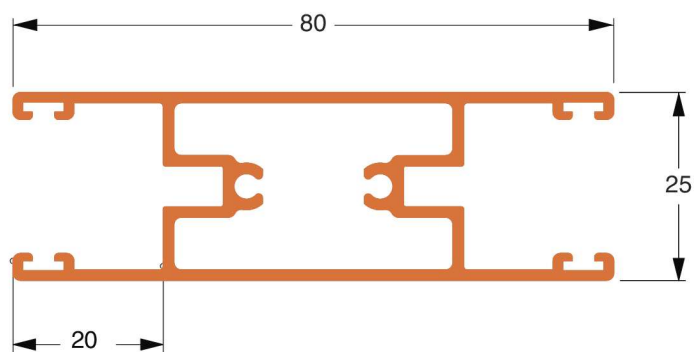
● **MN-015**
0,881 kg/m



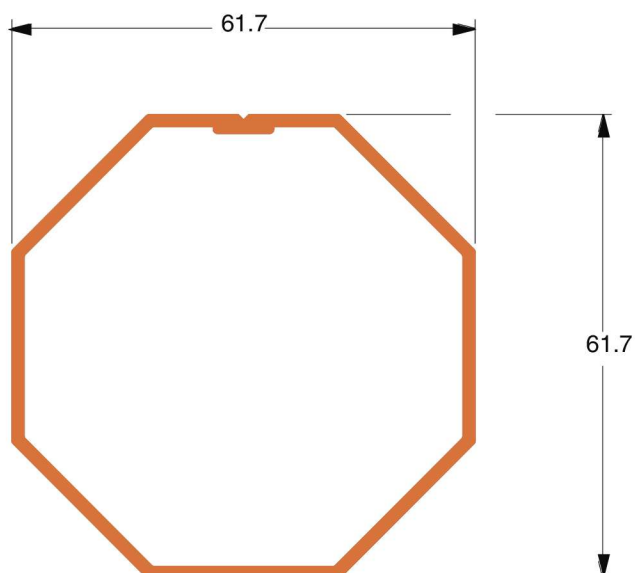
● **MN-007**
0,710 kg/m



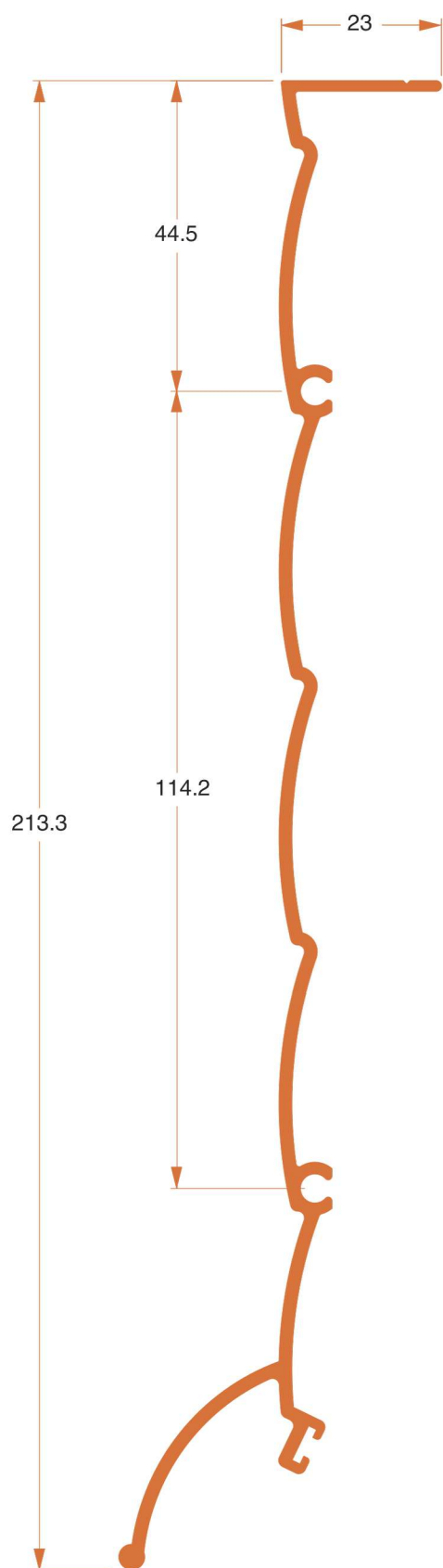
● **MN-0055**
0.371 kg/m



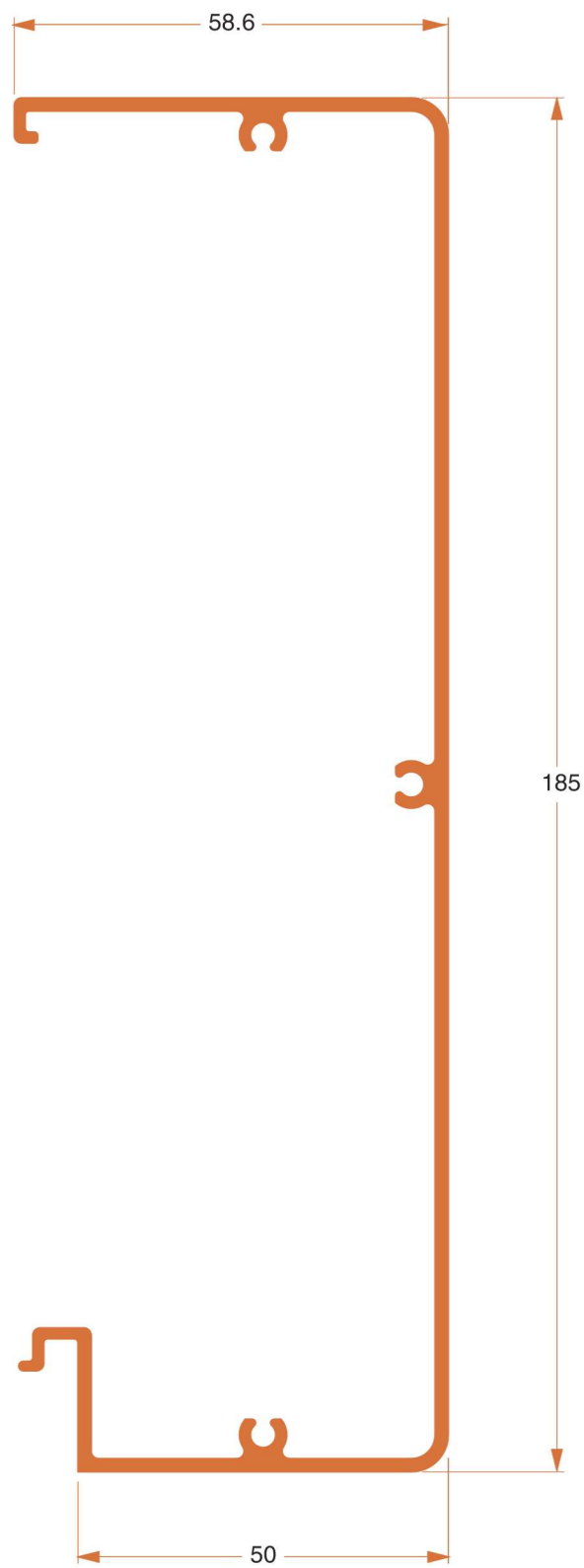
● **MN-027**
1,043 kg/m



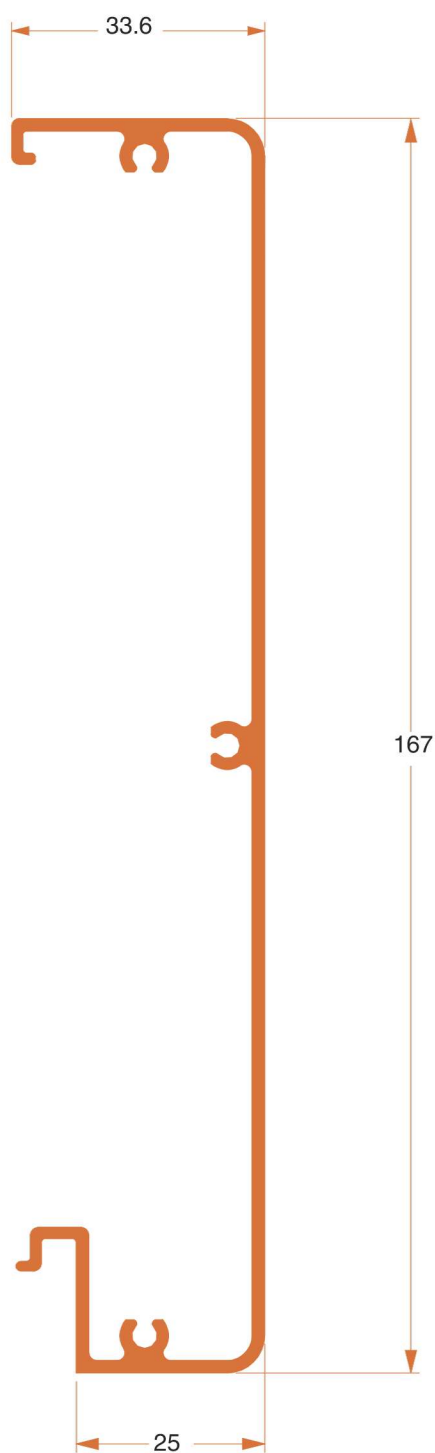
● **MN-015**
0,881 kg/m



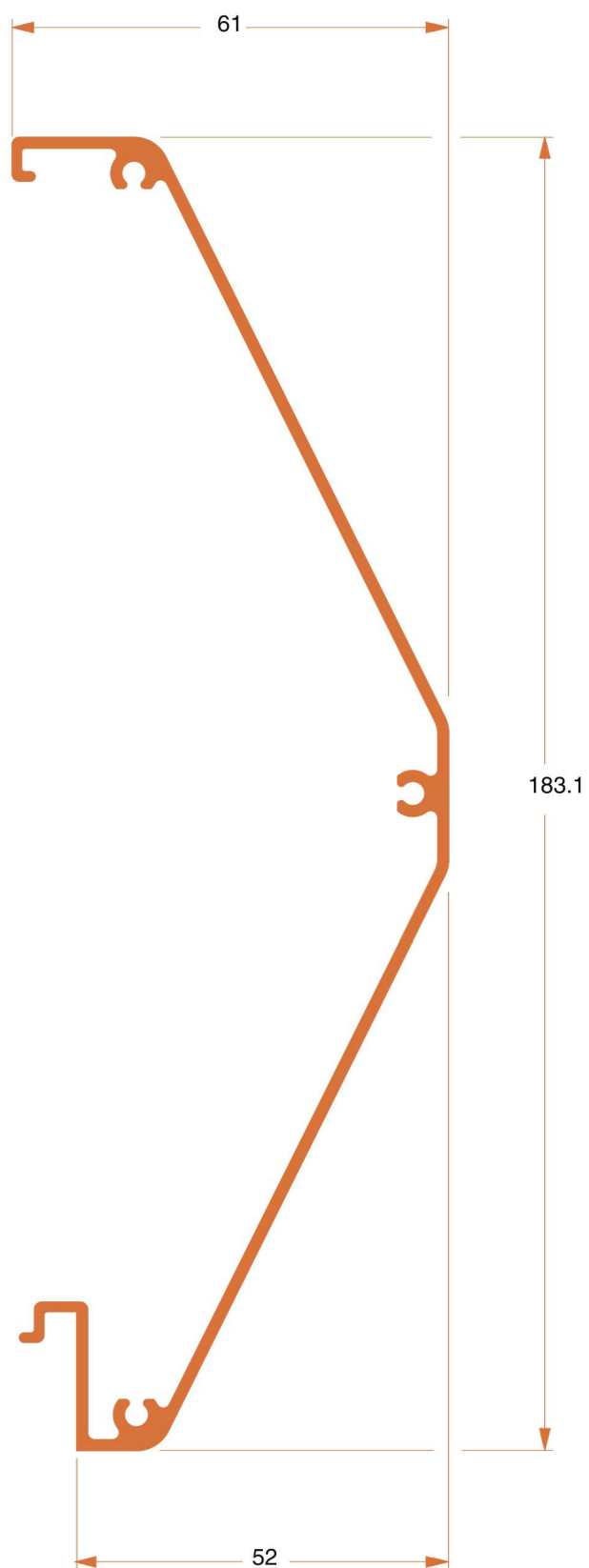
MN-039
1,400 kg/m



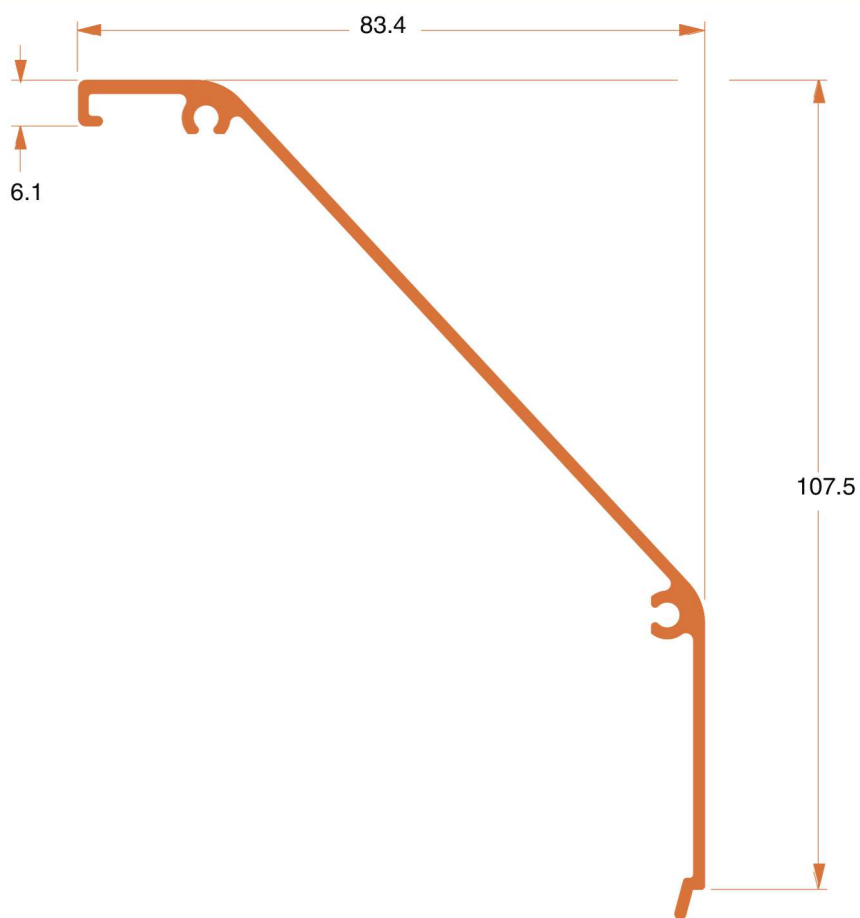
MN-032
1,723 kg/m



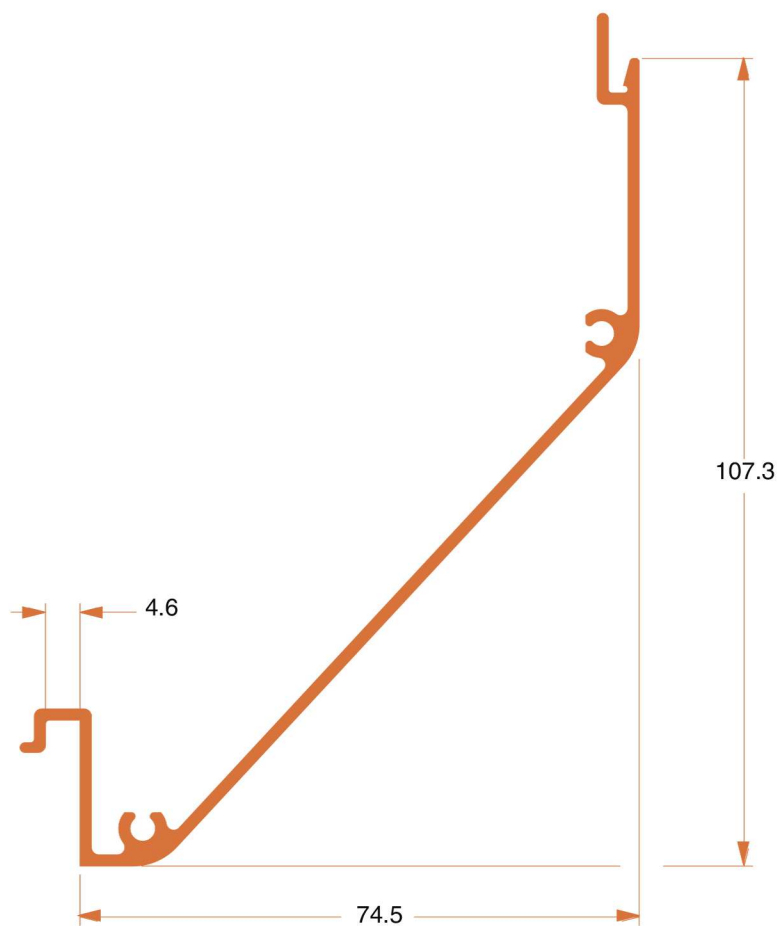
●
MN-031
1,331 kg/m



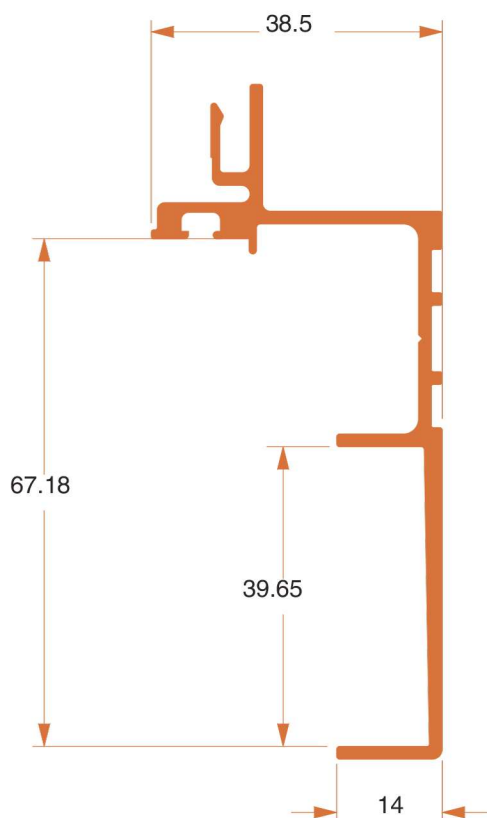
●
MN-008
1,385 kg/m



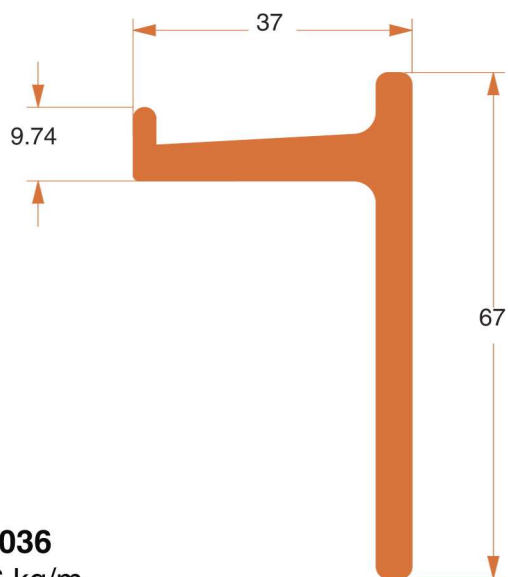
●
MN-005
0,783 kg/m



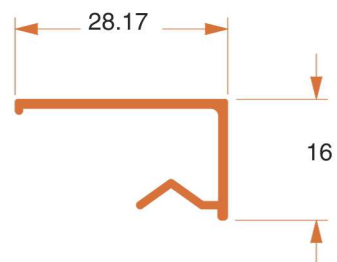
●
MN-006
0,878 kg/m



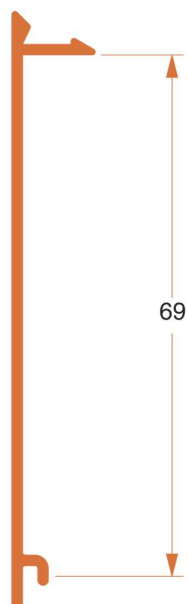
● **UN-0002**
0.887 kg/m



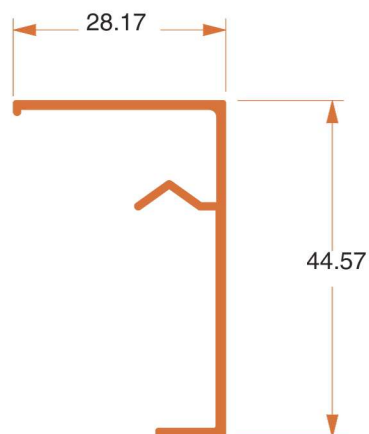
● **UN-0036**
1.386 kg/m



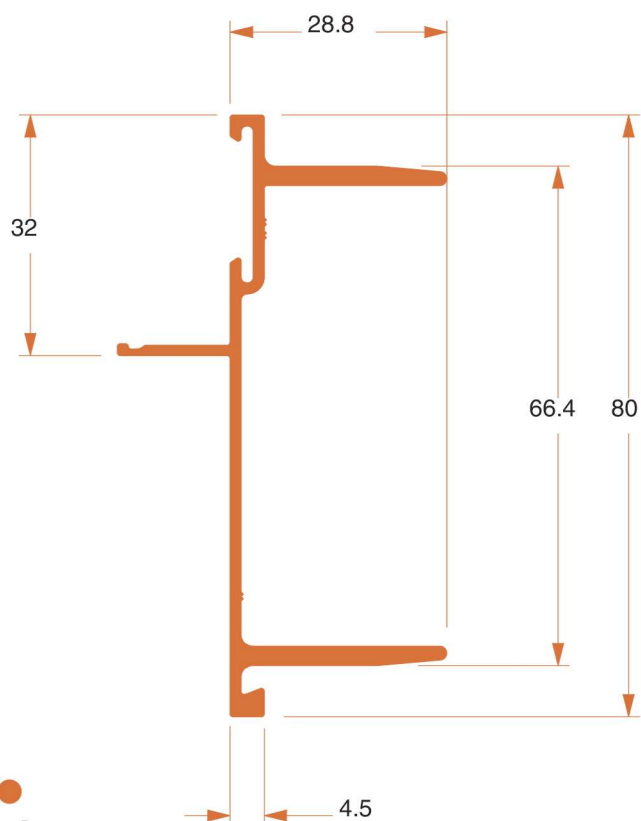
● **UN-0018**
0.176 kg/m



● **LG-0090**
0.361 kg/m

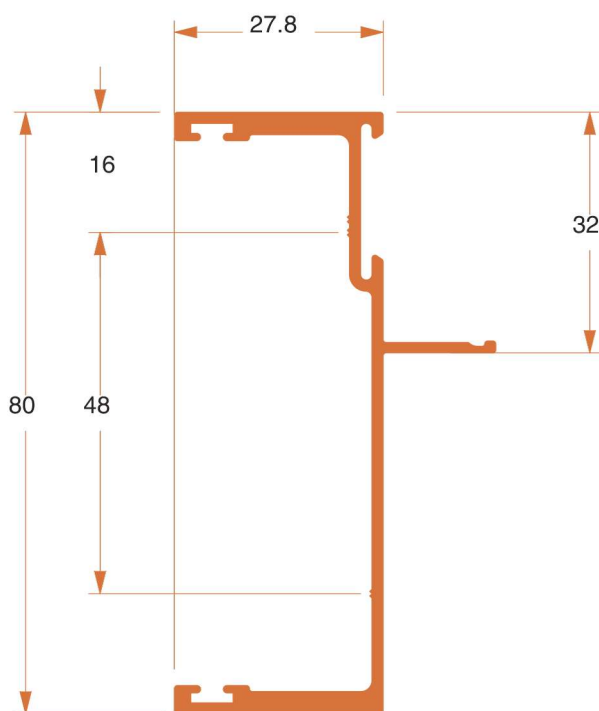


● **UN-0004**
0.303 kg/m



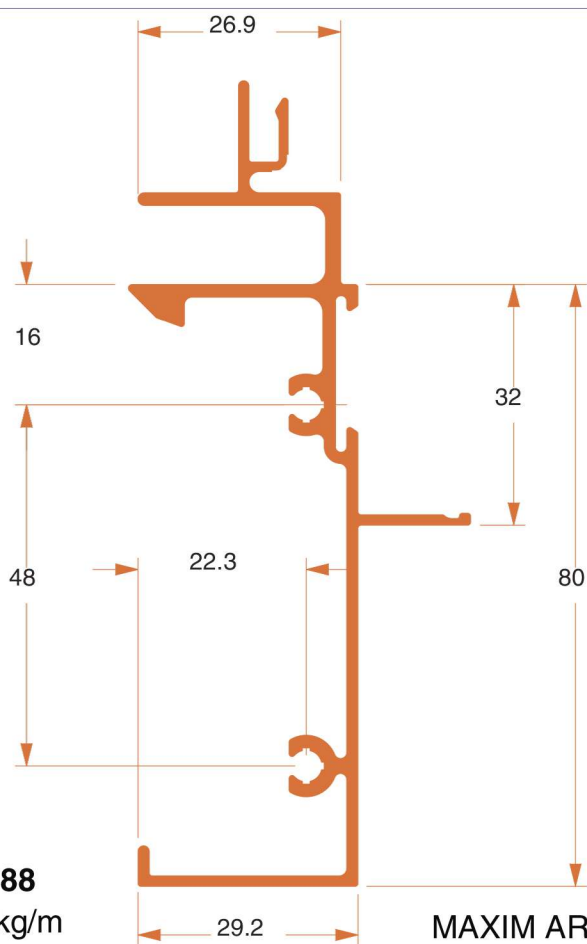
LG-0086
0.797 kg/m

MAXIM AR



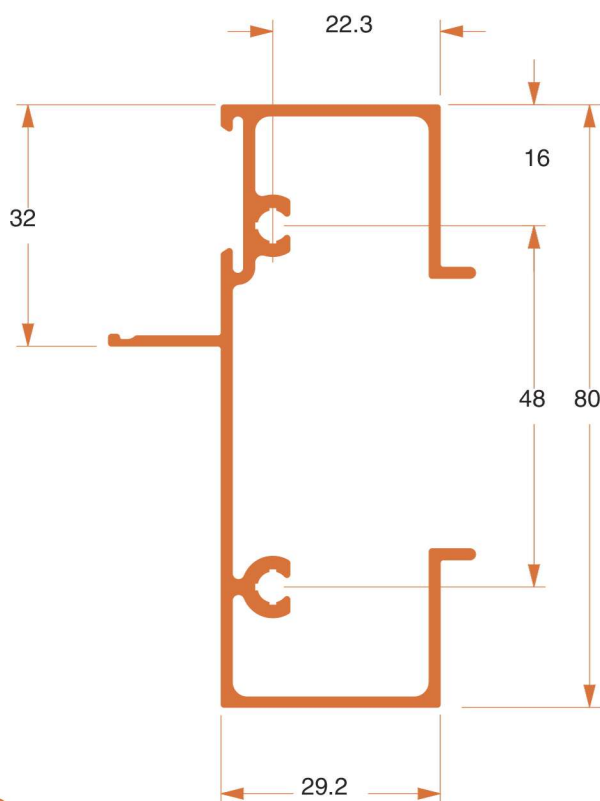
LG-0087
0.833 kg/m

MAXIM AR



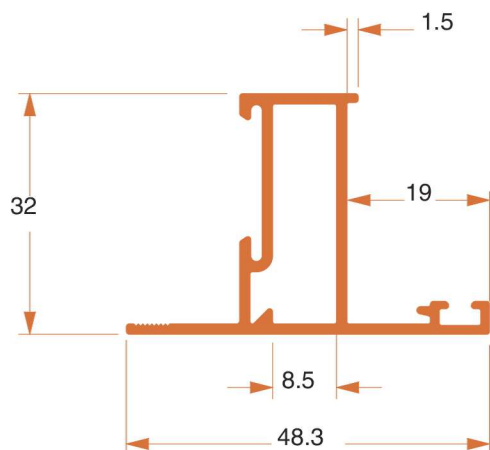
LG-0088
1.143 kg/m

MAXIM AR

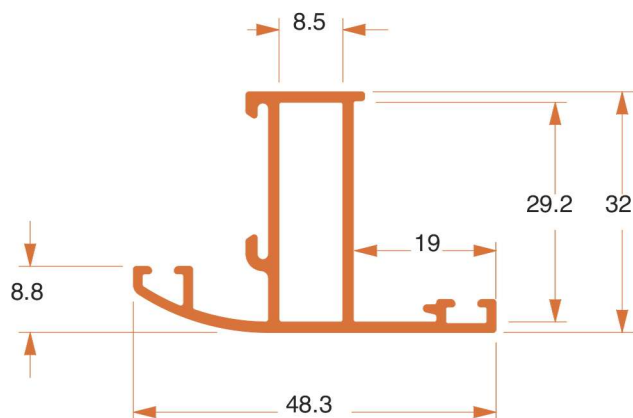


LG-0089
0.986 kg/m

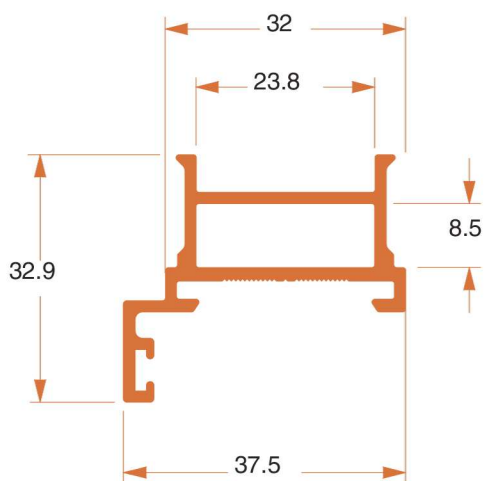
MAXIM AR



LG-0085
0.529 kg/m



LG-0096
0.555 kg/m



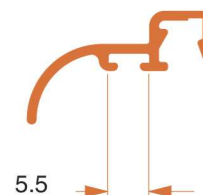
LG-0094
0.546 kg/m



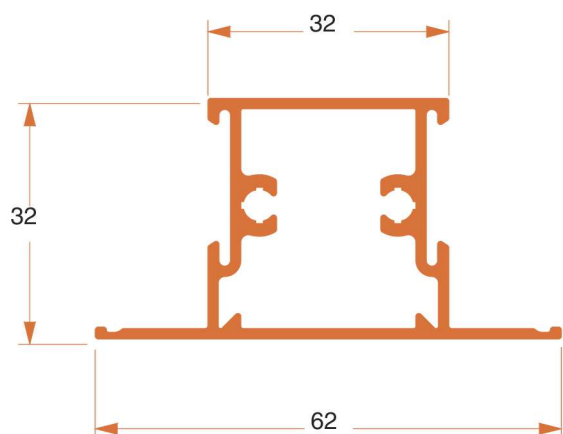
MH-0017
0.195 kg/m



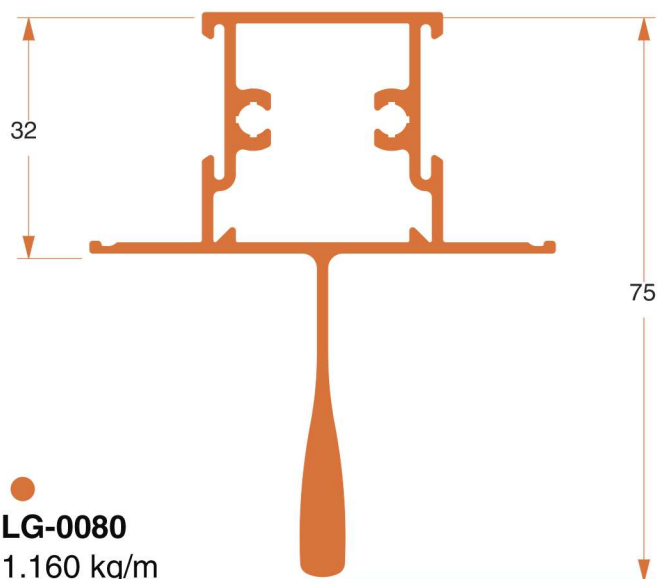
LG-0092
0.158 kg/m



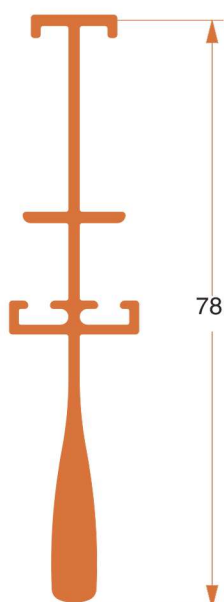
LG-0091
0.151 kg/m



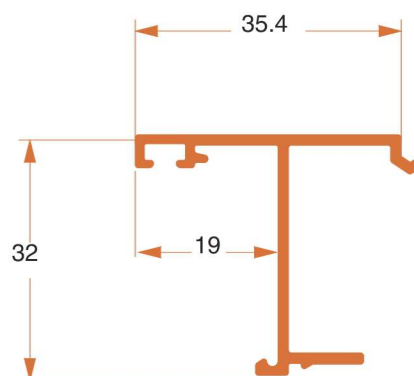
LG-0079
0.770 kg/m



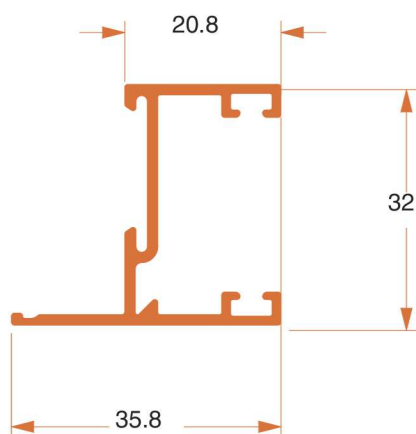
LG-0080
1.160 kg/m



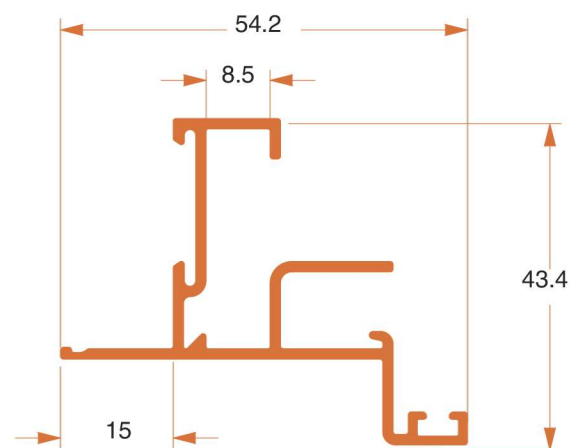
LG-0093
0.706 kg/m



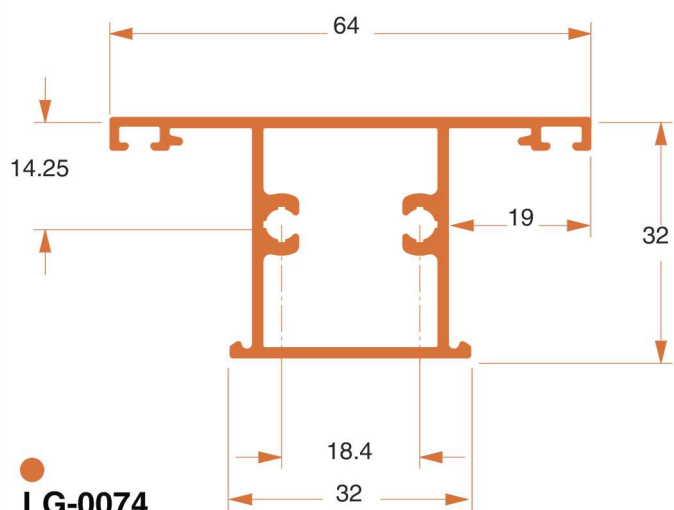
LG-0082
0.356 kg/m



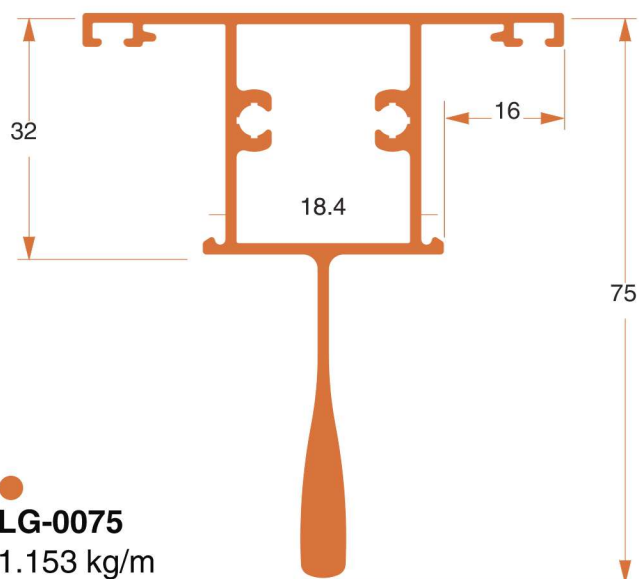
LG-0083
0.409 kg/m



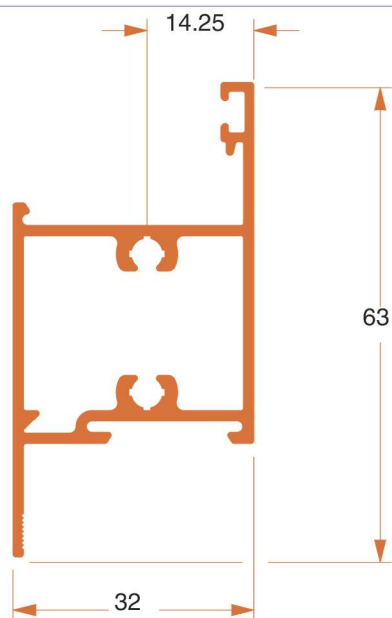
LG-0084
0.597 kg/m



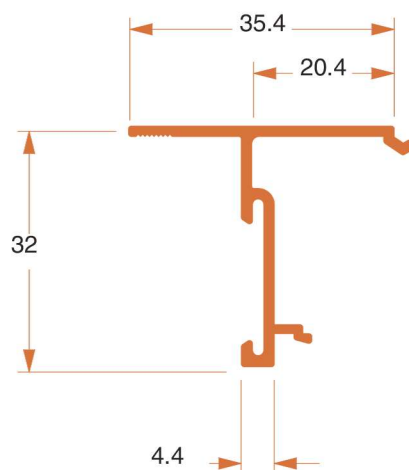
● **LG-0074**
0.760 kg/m



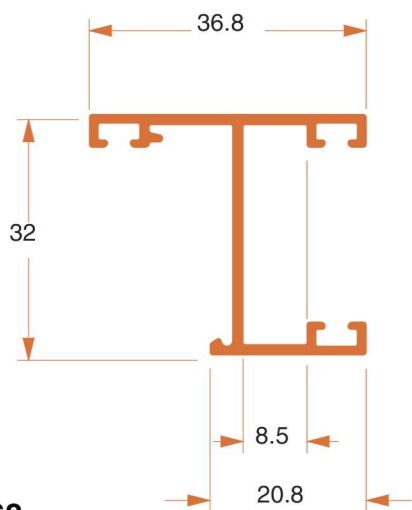
● **LG-0075**
1.153 kg/m



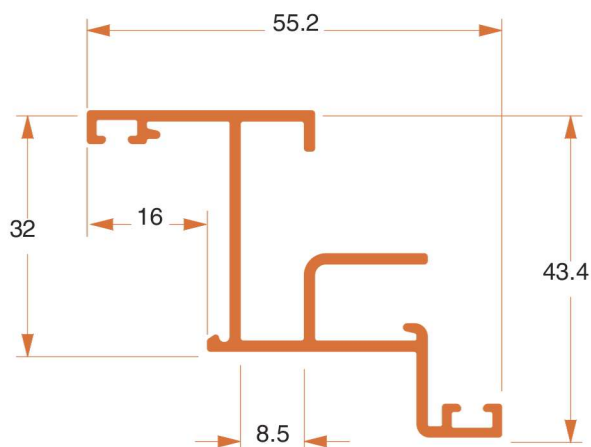
● **LG-0076**
0.765 kg/m



● **LG-0077**
0.326 kg/m



● **LG-0068**
0.405 kg/m



● **LG-0078**
0.594 kg/m

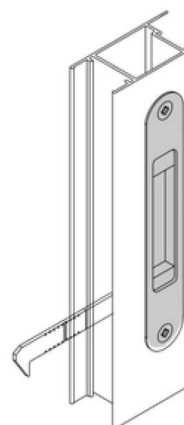
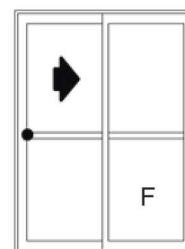
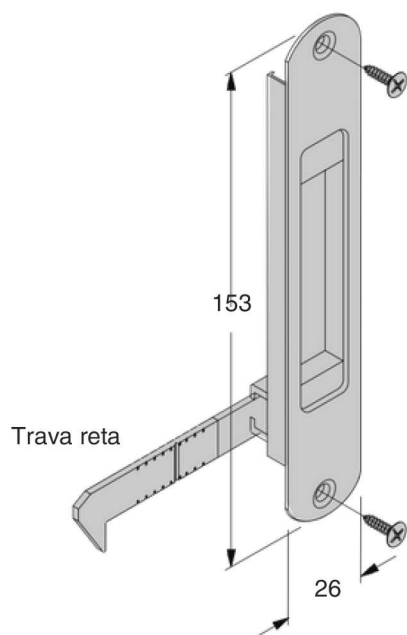


Capítulo 6

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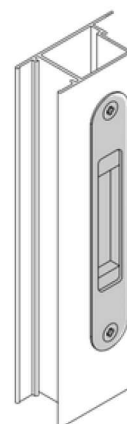
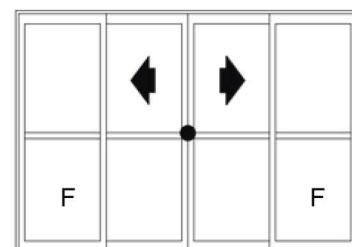
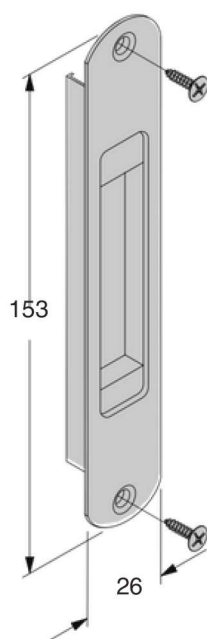
Aplicação

FEC-636

Fechoconcha sem chave e trava reta - Janela e porta de correr

Acabamento: Alumínio preto

Embalagem: 1 peça



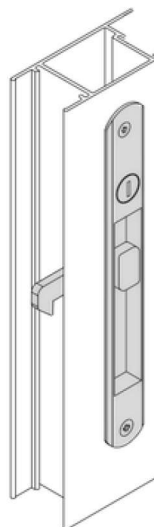
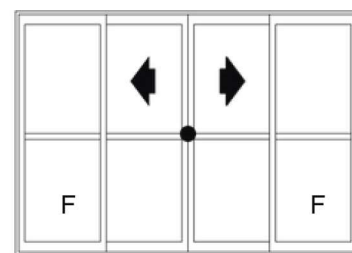
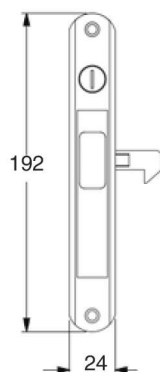
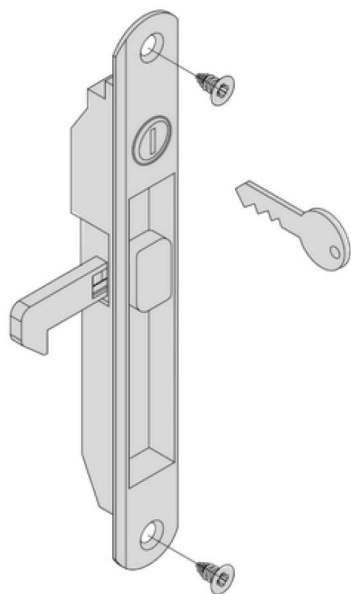
Aplicação

CON-280

Conchasimples - Janela e porta de correr

Acabamento: Alumínio preto

Embalagem: 1 peça



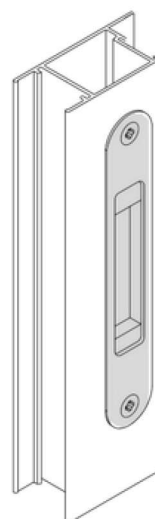
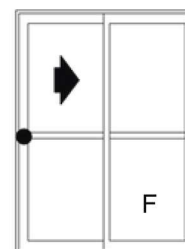
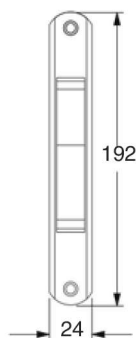
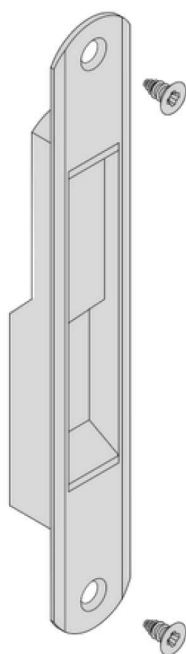
Aplicação

FEC-677

Fechoconcha com chave metálica - Porta de correr

Acabamento: Alumínio preto

Embalagem: 1 peça



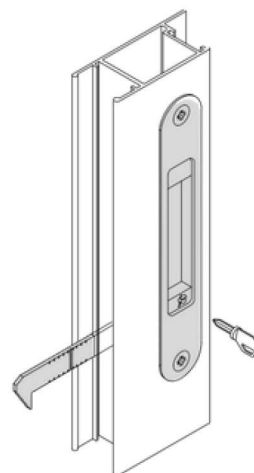
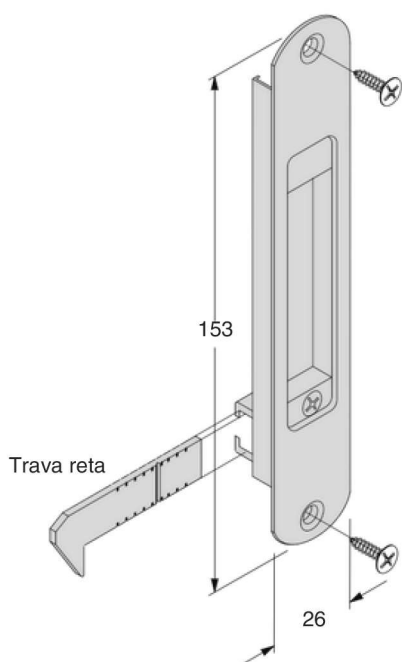
Aplicação

FEC-052

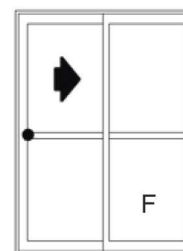
Conchalisa - Janela e porta de correr

Acabamento: Nylon preto

Embalagem: 1 peça



Aplicação

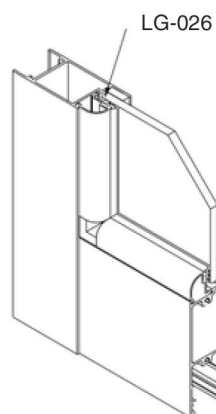
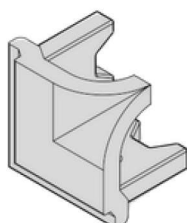
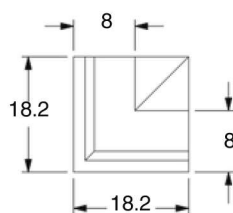


FEC-645

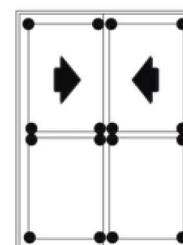
Fechoconcha com chave e trava reta - Janela e porta de correr

Acabamento: Alumínio preto

Embalagem: 1 peça



Aplicação

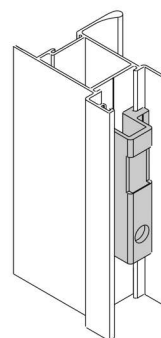
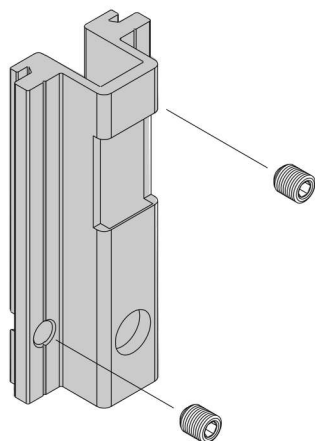
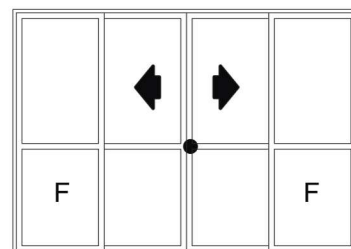
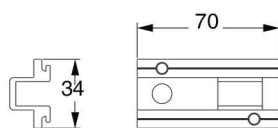


CON-432

Recobrimento de canto

Acabamento: Alumínio preto

Embalagem: 100 peças



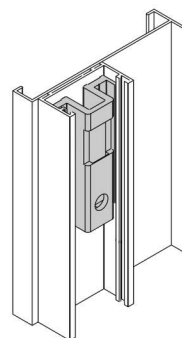
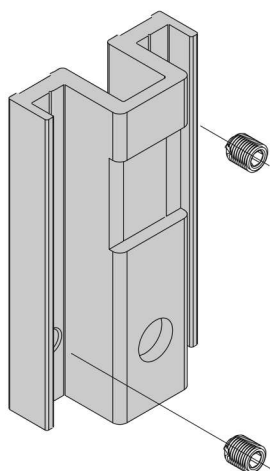
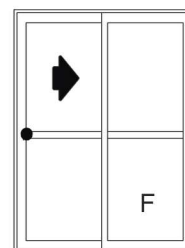
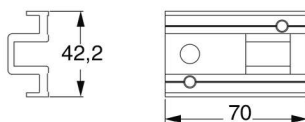
Aplicação

CON-384

Contratesta central para fechadura

Acabamento: Alumínio preto

Embalagem: 1 peça



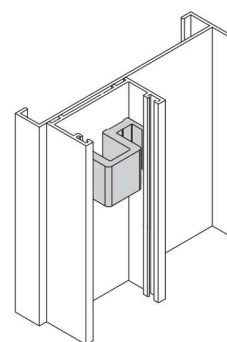
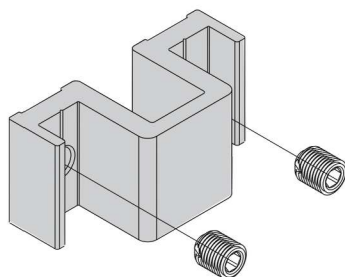
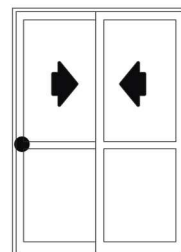
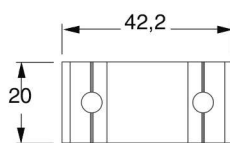
Aplicação

CON-382

Contratesta lateral para fechadura

Acabamento: Alumínio preto

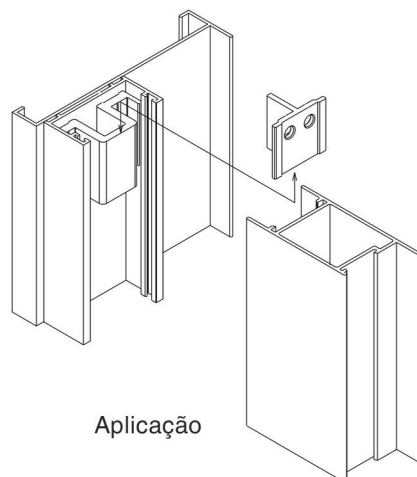
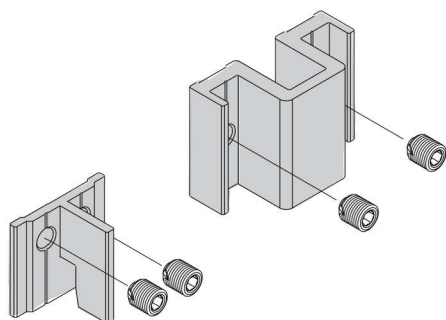
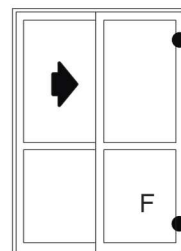
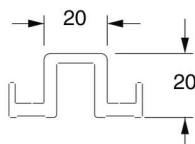
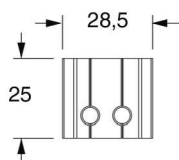
Embalagem: 1 peça



Aplicação

CON-383

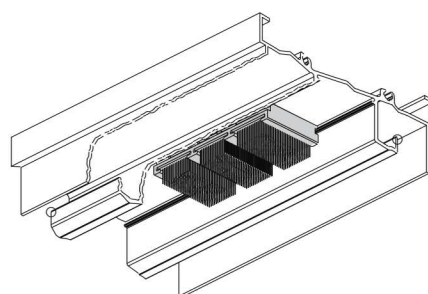
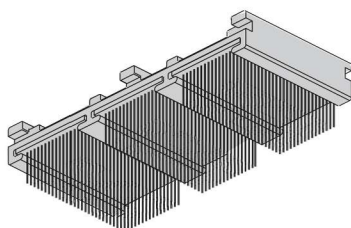
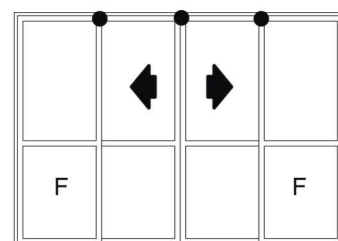
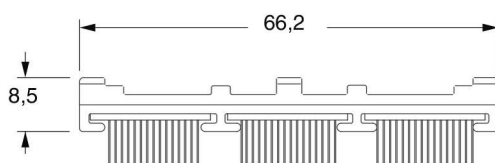
Contrafecho lateral
Acabamento: Alumínio preto
Embalagem: 10 peças



Aplicação

SUP-622

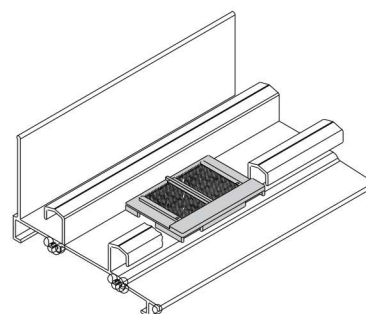
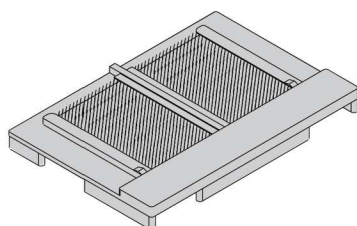
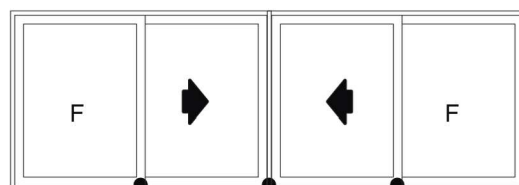
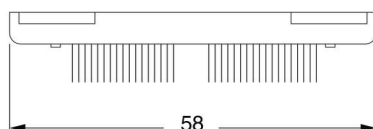
Travadafolha fixa
Acabamento: Alumínio preto
Embalagem: 2 peças



CON-381

Vedação superior
Acabamento: Nylon preto
Embalagem: 10 peças

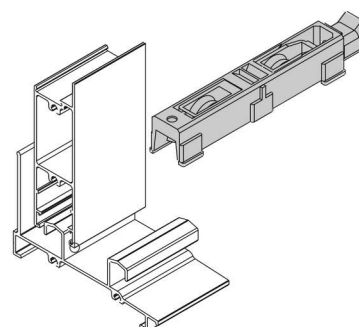
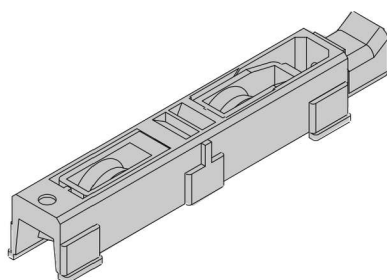
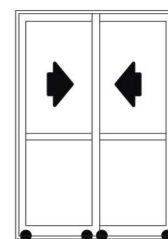
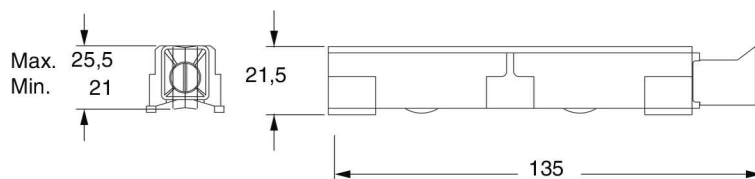
Aplicação



NYL-395

Vedação inferior
Acabamento: Nylon preto
Embalagem: 10 peças

Aplicação



Aplicação

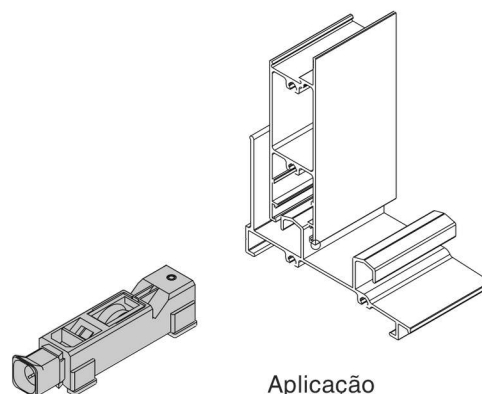
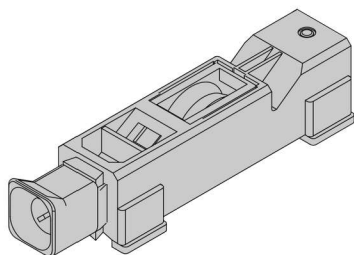
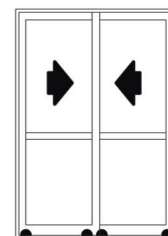
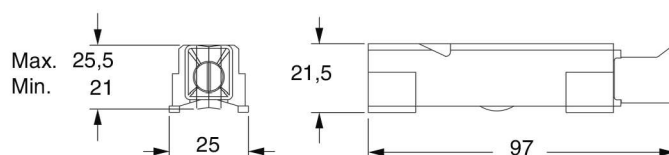
ROL-413

Roldanadupla com rolamento e regulagem

Acabamento: Nylon e Zamak preto

Emalagem: 2 peças

Carga máxima 80kg por folha.



Aplicação

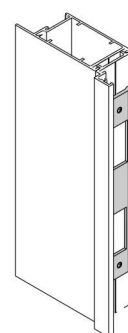
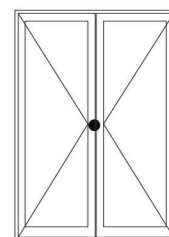
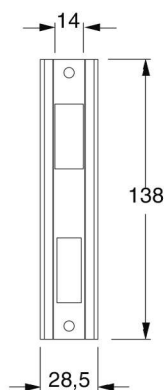
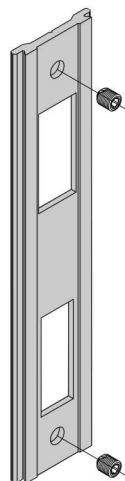
ROL-468

Roldanacom rolamento e regulagem

Acabamento: Nylon e Zamak preto

Emalagem: 2 peças

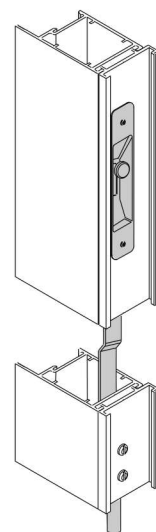
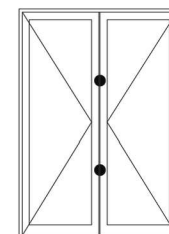
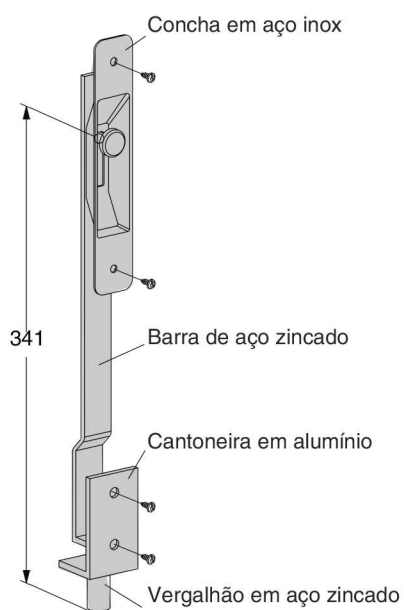
Carga máxima 40kg por folha.



Aplicação

CON-386

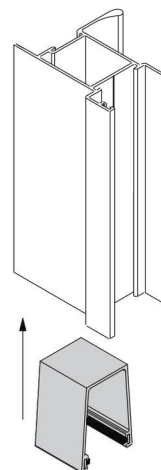
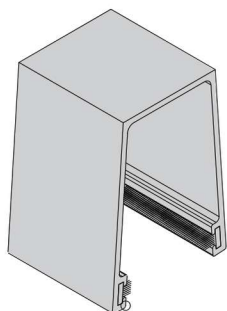
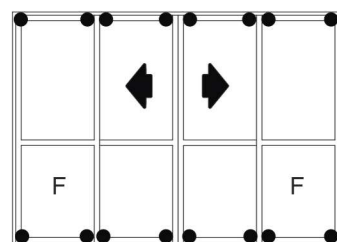
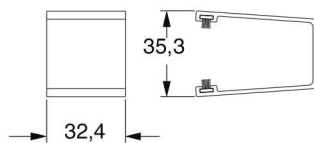
Contratesta para fechadura
Acabamento: Alumínio preto
Embalagem: 1 peça



Aplicação

FEC-509

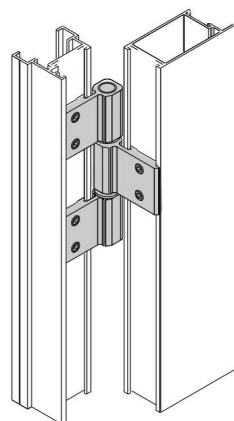
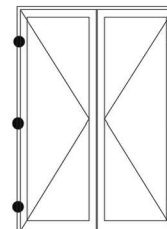
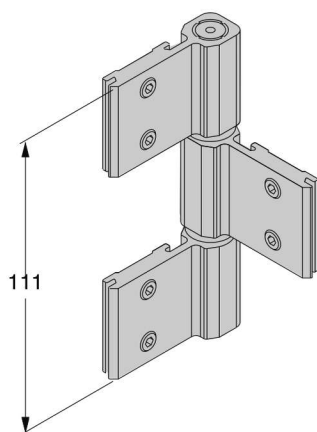
Fecho leve toque
Acabamento: Aço inox
Embalagem: 1 peça



Aplicação

CAL-929

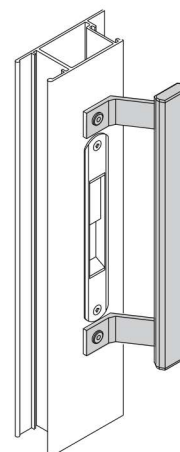
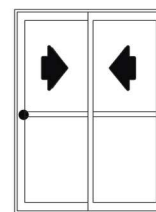
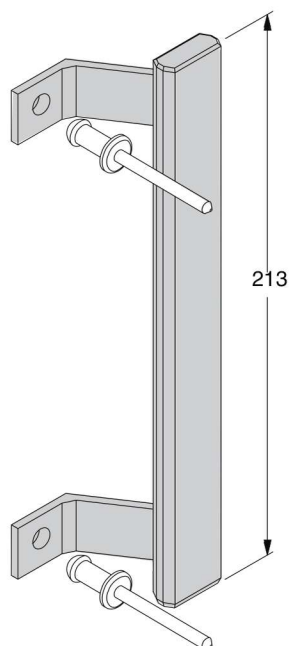
Calçovedante do montante
Acabamento: Alumínio natural
Embalagem: 8 peças



Aplicação

DOB-828

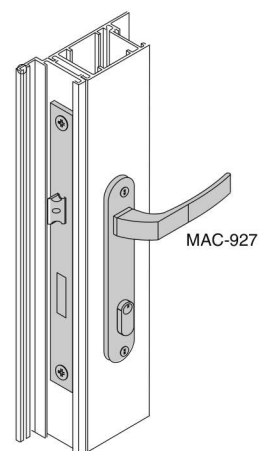
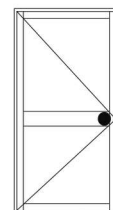
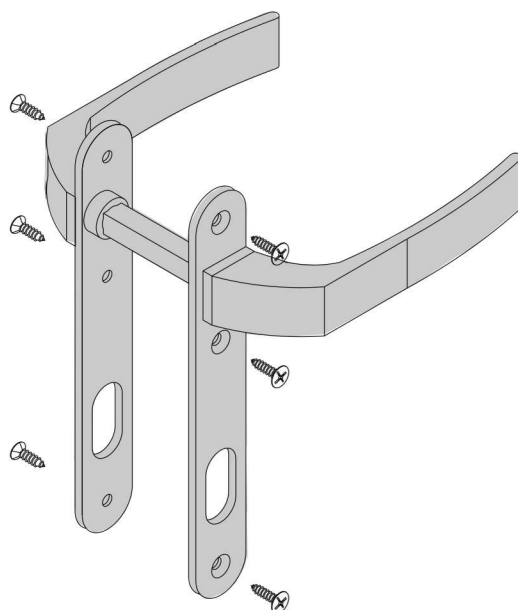
Dobradiça 3 abas
Acabamento: Alumínio preto
Embalagem: 3 peças



Aplicação

PUX-006

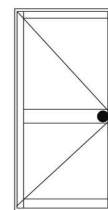
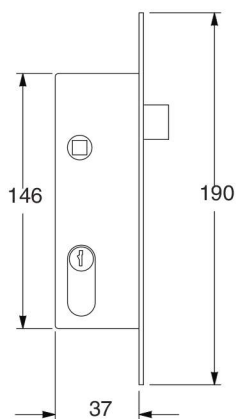
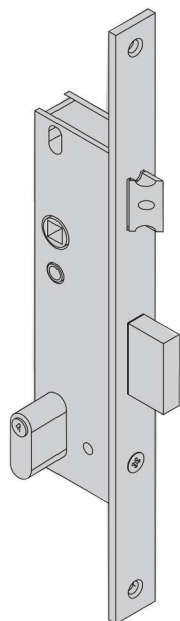
Puxador porta de correr
Acabamento: Alumínio preto
Embalagem: 1 peça



Aplicação

MAC-927

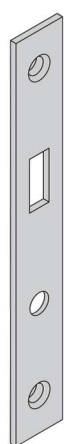
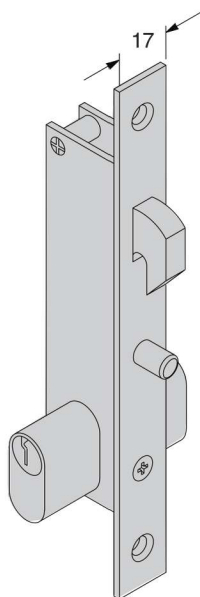
Maçaneta com espelho - Porta de giro
Acabamento: Preto
Embalagem: 1 peça



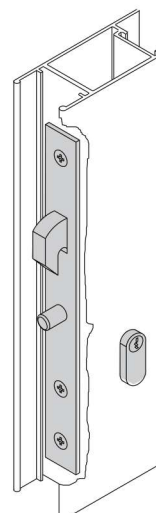
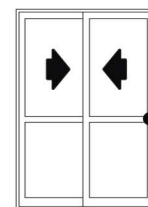
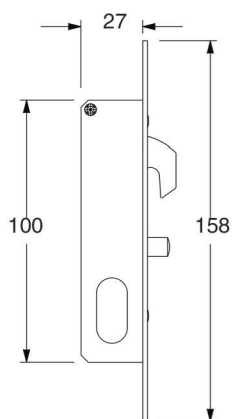
Aplicação

FRA-822

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



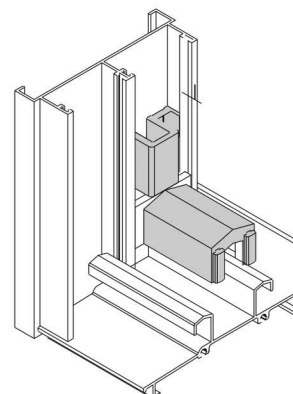
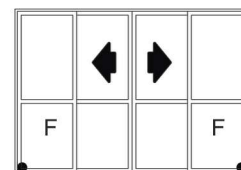
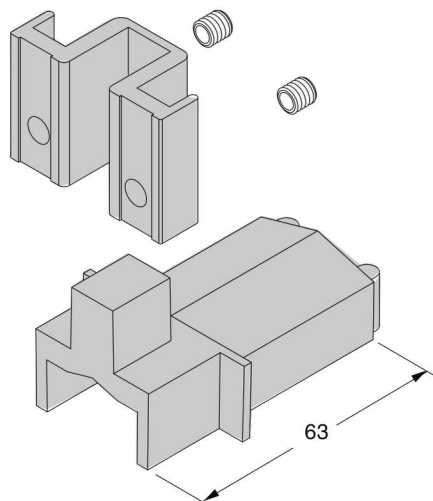
Espelho



Aplicação

FRA-823

Fechadura - Porta de correr
Acabamento: Latão fume
Embalagem: 1 peça



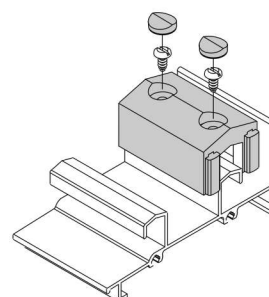
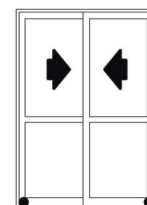
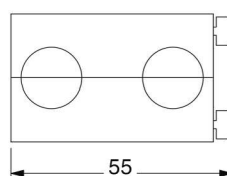
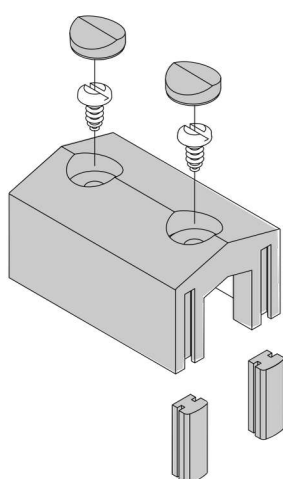
Aplicação

NYL-347

Batedeira

Acabamento: Nylon preto

Embalagem: 2 peças



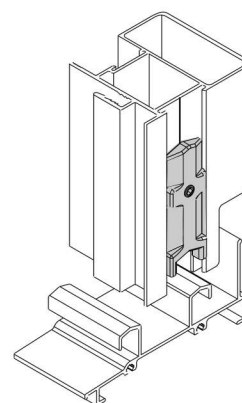
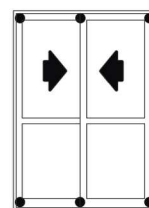
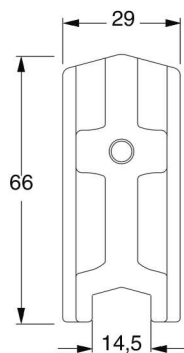
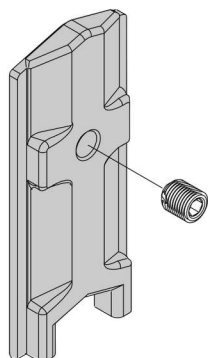
Aplicação

NYL-398

Batedeira

Acabamento: Nylon preto

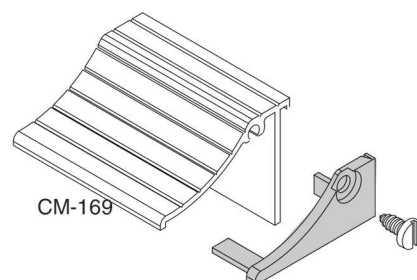
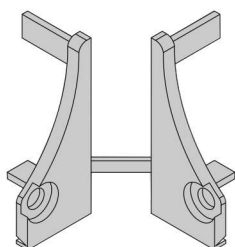
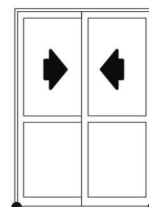
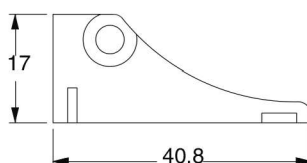
Embalagem: 2 peças



Aplicação

NYL-396

Guia limitador superior
Acabamento: Nylon preto
Embalagem: 20 peças

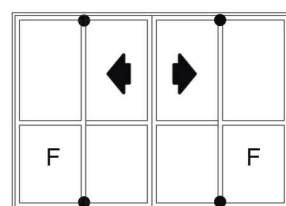
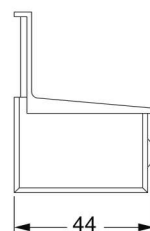
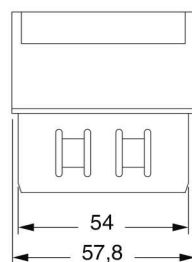
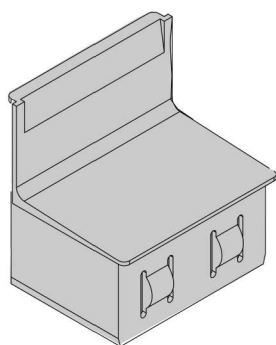


CM-169

Aplicação

NYL-416

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

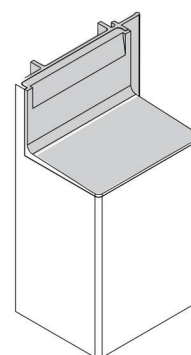


NYL-399

Tampadomontante LG-0052 / LG-0054

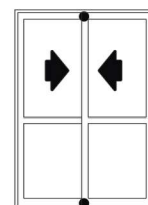
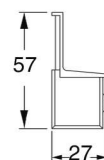
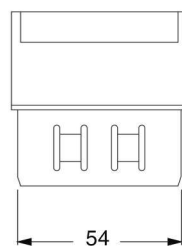
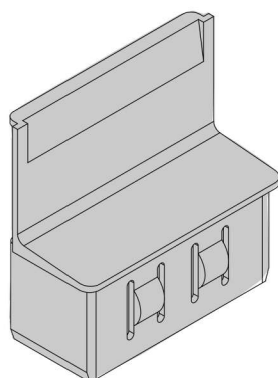
Acabamento: Nylon preto

Embalagem: 8 peças



LG-0052 / LG-0054

Aplicação

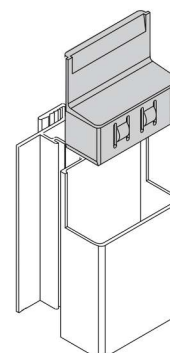


NYL-401

Tampadomontante LG-018

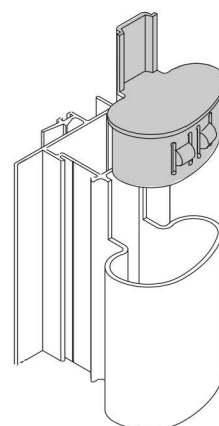
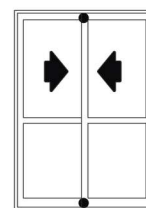
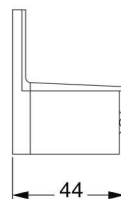
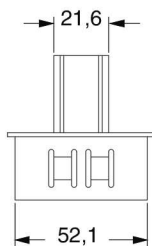
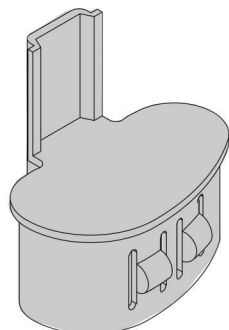
Acabamento: Nylon preto

Embalagem: 8 peças



LG-018

Aplicação



LG-021

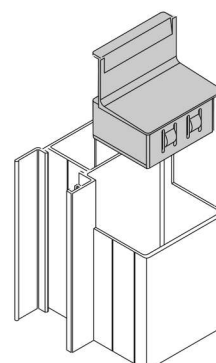
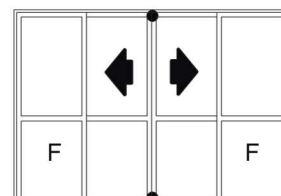
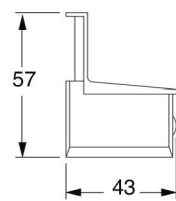
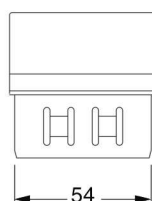
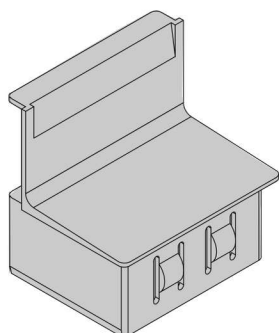
Aplicação

NYL-400

Tampapara montante LG-021

Acabamento: Nylon preto

Embalagem: 4 peças direitas e 4 esquerdas



LG-053

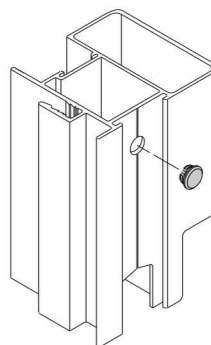
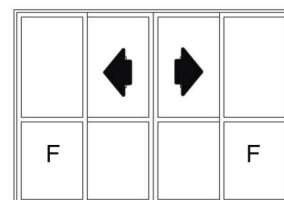
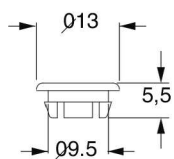
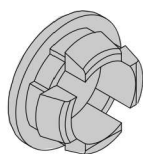
Aplicação

NYL-402

Tampadomontante LG-053

Acabamento: Nylon preto

Embalagem: 8 peças



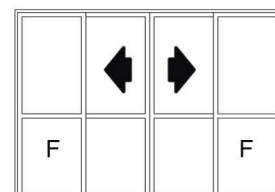
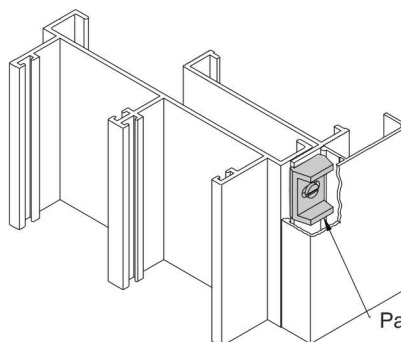
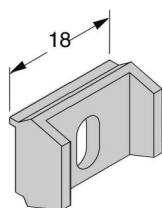
Aplicação

NYL-042

Botãotampa furo

Acabamento: Nylon preto

Embalagem: 1000 peças



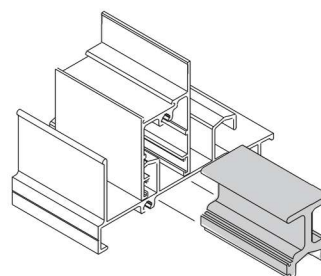
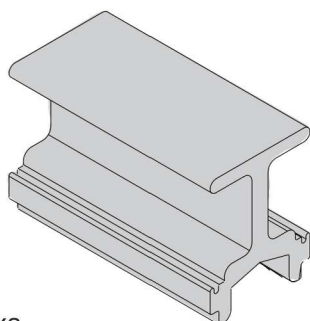
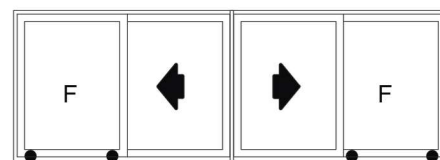
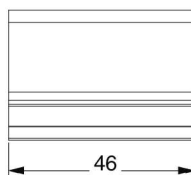
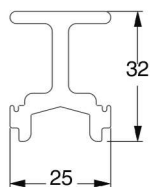
Aplicação

NYL-190

Botãodefixação do remate

Acabamento: Nylon 6.6 preto

Embalagem: 500 peças



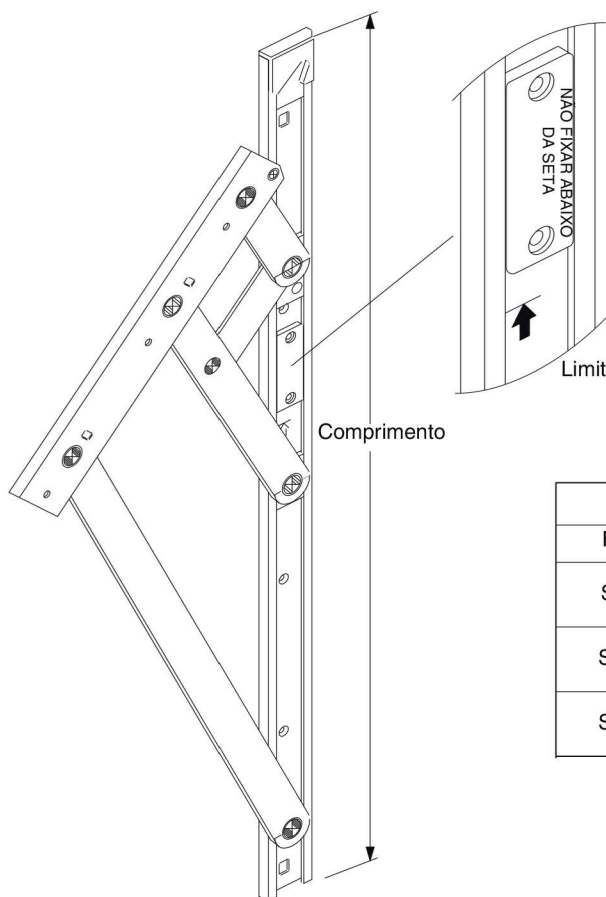
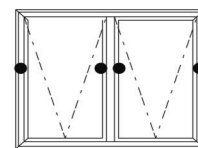
Aplicação

NYL-394

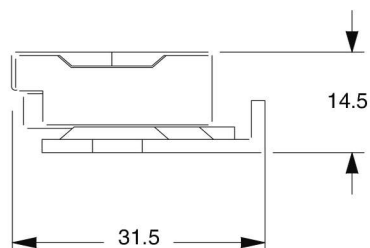
Calçoparafolha fixa

Acabamento: Nylon preto

Embalagem: 10 peças

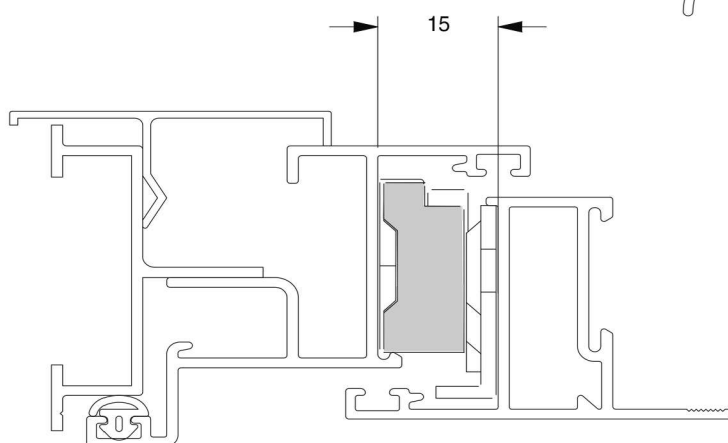


Limitador de abertura somente para BRA-768

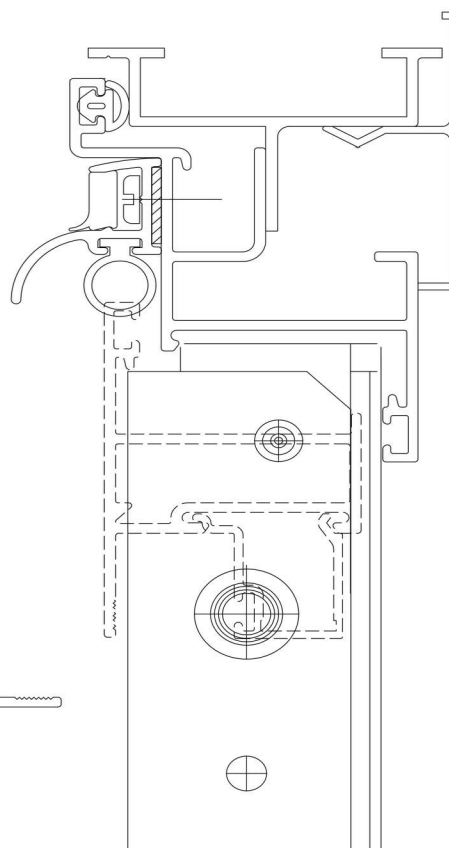


Comprimento

CÓDIGOS		Comprimento	FOLHA		
Fermax	Alcoa		Altura Máxima	Largura Máxima	Carga Máxima
SRG 01	BRA-766	342mm	600	1200	22kg
SRG 02	BRA-767	600mm	1000	1200	30kg
SRG 03	BRA-768	951mm	1200	1200	36kg



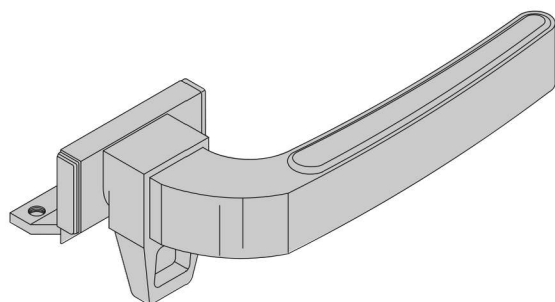
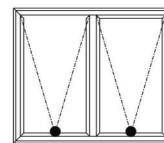
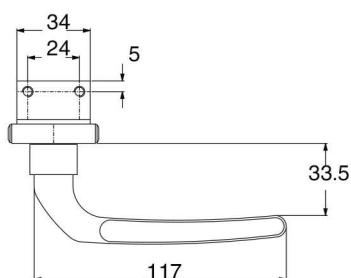
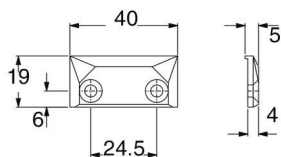
Aplicação



BRAÇO

Acabamento: Preto
Embalagem: 1 par

Batente 4,0mm



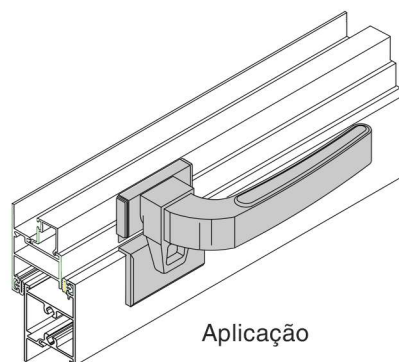
FERMAX	LADO	ALCOA
FMA 99	DIREITO	FEC-493
	ESQUERDO	FEC-494

FECHO

Fechodireito e esquerdo

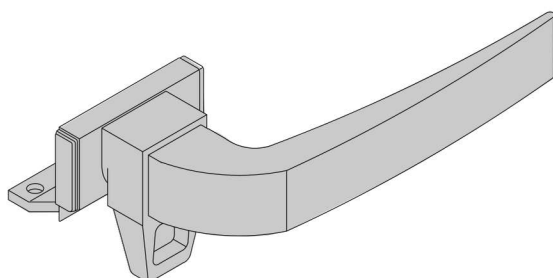
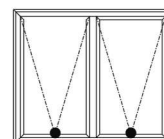
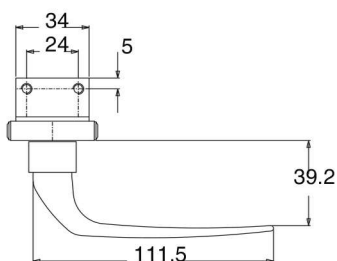
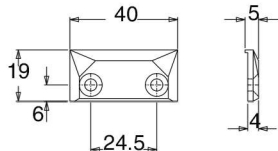
Acabamento: Preto

Embalagem: 1 peça



Aplicação

Batente 4,0mm



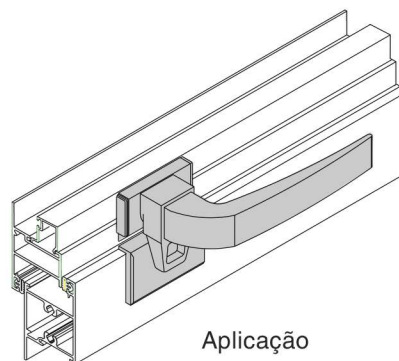
FERMAX	LADO	ALCOA
FMA 98	DIREITO	FEC-495
	ESQUERDO	FEC-496

FECHO

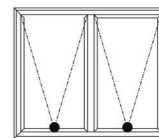
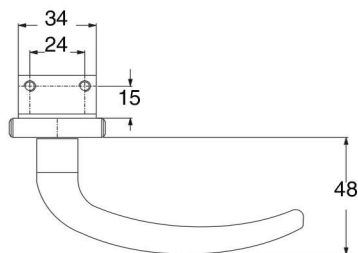
Fechodireito e esquerdo

Acabamento: Preto

Embalagem: 1 peça

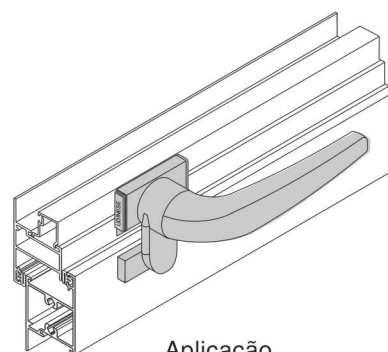
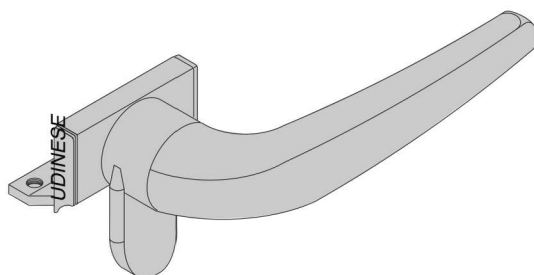


Aplicação



FECHO UDINESE

LADO	ALCOA
DIREITO	FEC-1002
ESQUERDO	FEC-1003



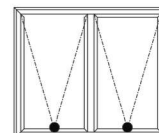
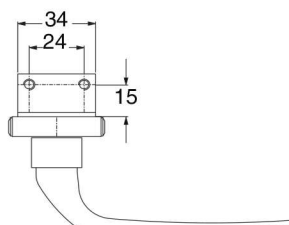
Aplicação

FECHO

Fechodireito e esquerdo

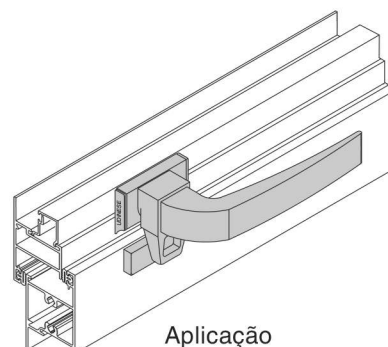
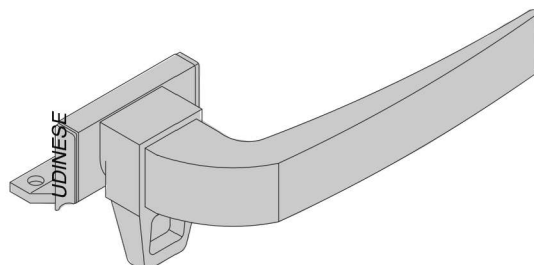
Acabamento: Preto

Embalagem: 1 peça



FECHO UDINESE

LADO	ALCOA
DIREITO	FEC-1000
ESQUERDO	FEC-1001



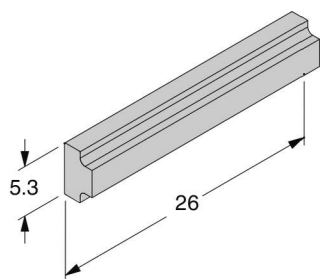
Aplicação

FECHO

Fechodireito e esquerdo

Acabamento: Preto

Embalagem: 1 peça

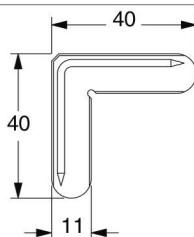
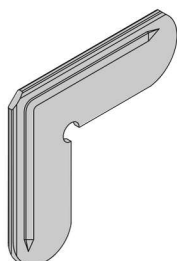
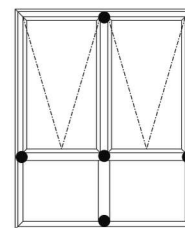
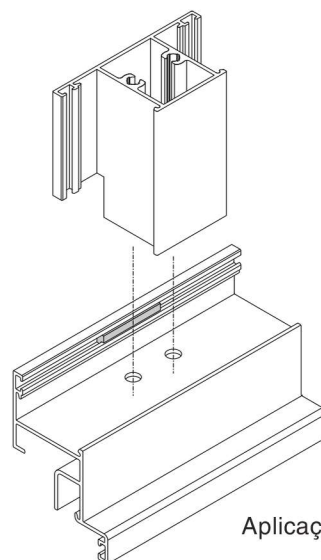


CAL-945

Calçodevedação da travessa

Acabamento: Nylon preto

Embalagem: 10 peças

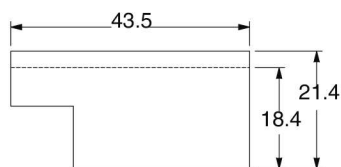
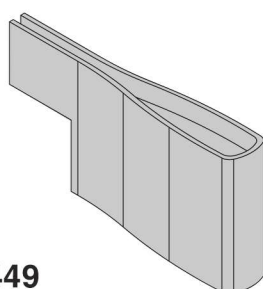
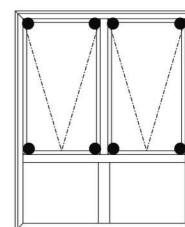
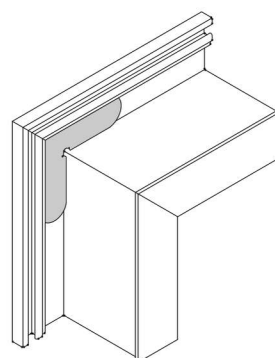


CON-433

Conexãode alinhamento

Acabamento: Nylon 6.6 preto

Embalagem: 20 peças

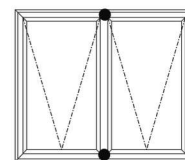
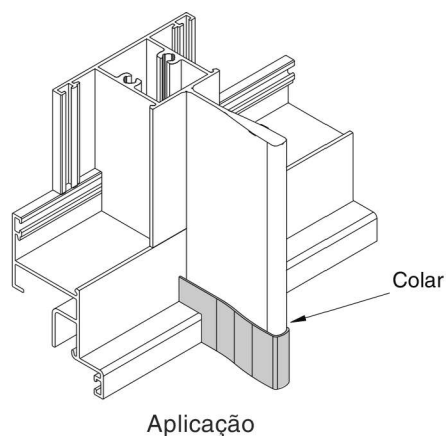


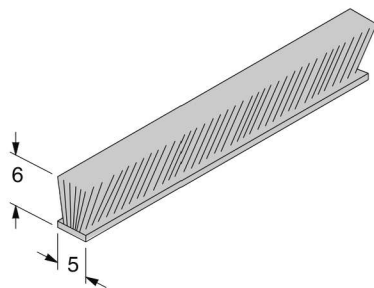
NYL-449

Tampaderecobrimento

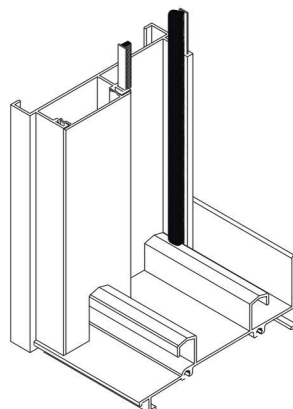
Acabamento: Nylon preto

Embalagem: 20 peças

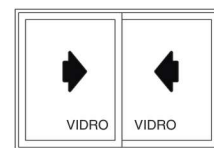




FIT-206

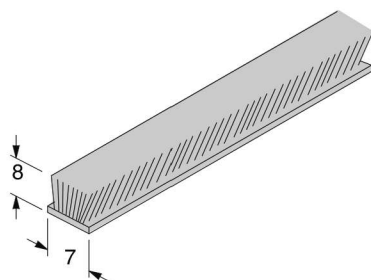


Aplicação

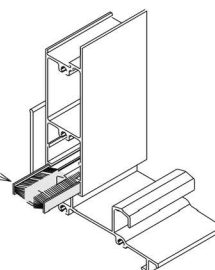


FIT-206

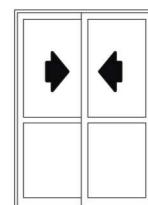
Fitavedadora sem barreira plástica
Acabamento: Preto
Embalagem: 50 metros



FIT-224

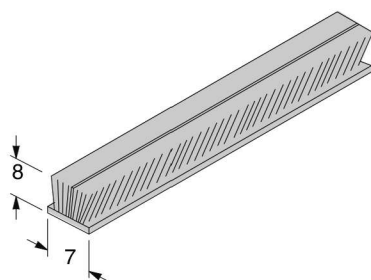


Aplicação

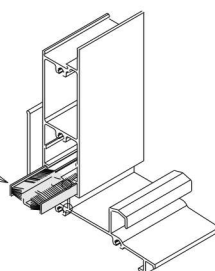


FIT-224

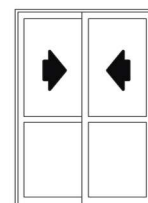
Fitavedadora sem barreira plástica
Acabamento: Preto
Embalagem: 50 metros



FIT-223

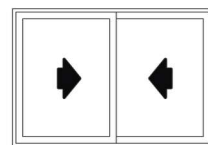
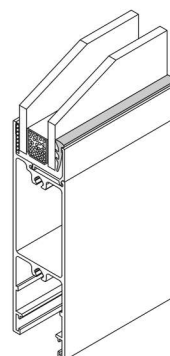
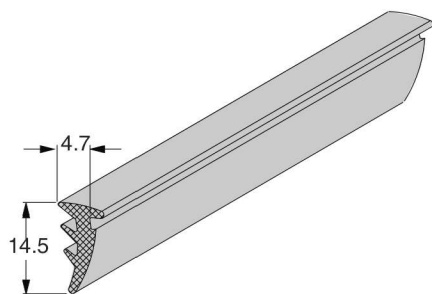


Aplicação



FIT-223

Fitavedadora com barreira plástica
Acabamento: Preto
Embalagem: 50 metros

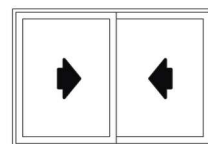
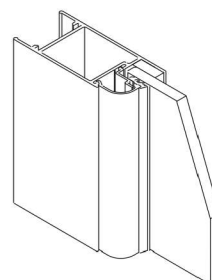
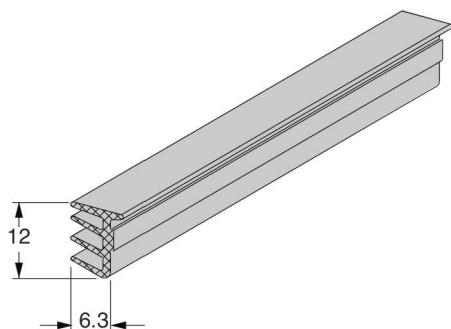


GUA-303

Guarnição em E.P.D.M.
Acabamento: Preto
Embalagem: 50 metros

Aplicação

Ver aplicação na página 104

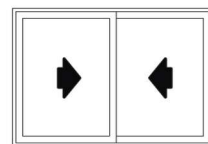
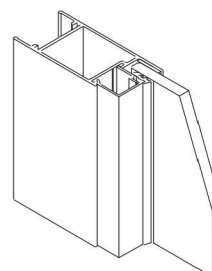
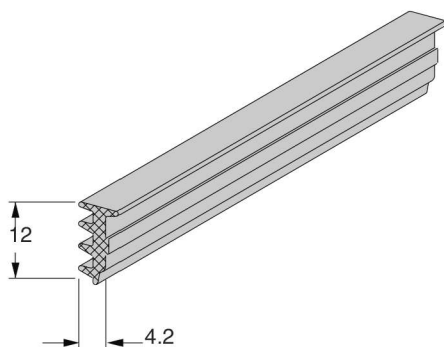


GUA-256

Guarnição em E.P.D.M.
Acabamento: Preto
Embalagem: 50 metros

Aplicação

Ver aplicação na página 104

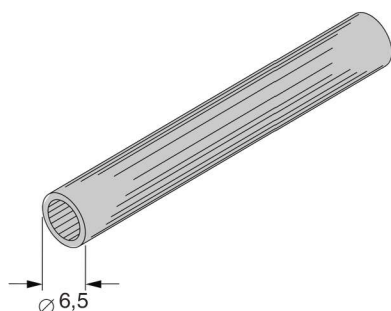


GUA-259

Guarnição em E.P.D.M.
Acabamento: Preto
Embalagem: 50 metros

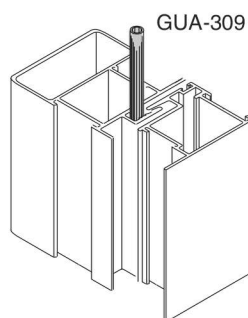
Aplicação

Ver aplicação na página 104

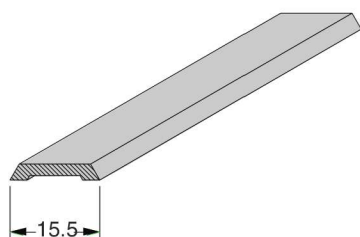
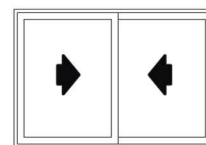


GUA-309

Vedação de engate
Acabamento: E.P.D.M.
Embalagem: Rolo com 50 metros

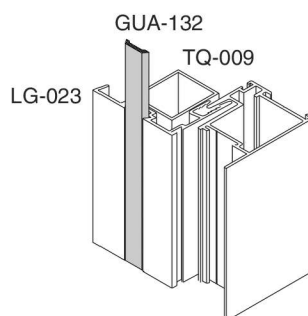


Aplicação

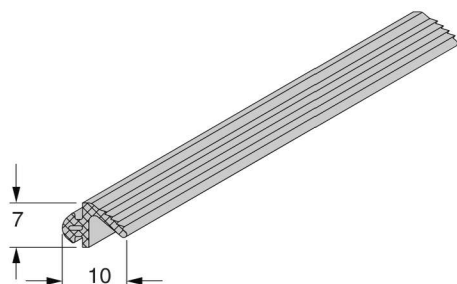
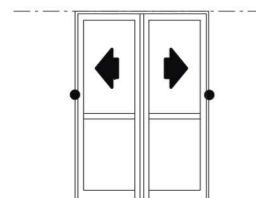


GUA-132

Guarnição em P.V.C.
Acabamento: Preto
Embalagem: 30 metros

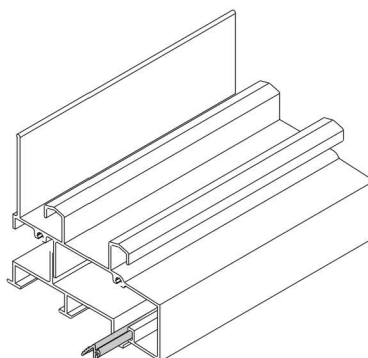


Aplicação

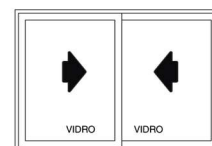


GUA-239

Guarnição em E.P.D.M.
Acabamento: Preto
Embalagem: 50 metros

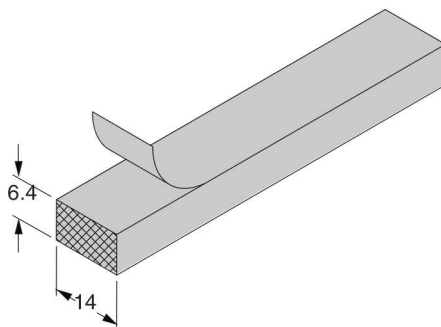


Aplicação

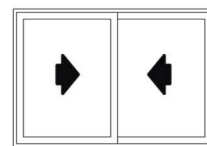


GUA-304

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 15 metros

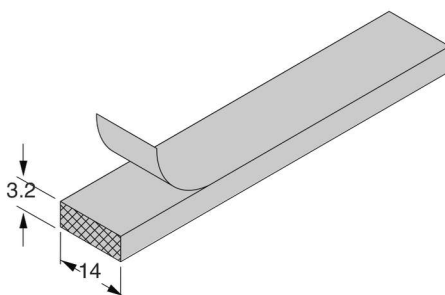


Ver aplicação na página 104

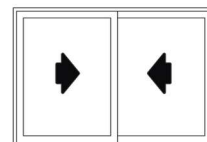


GUA-305

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 30 metros

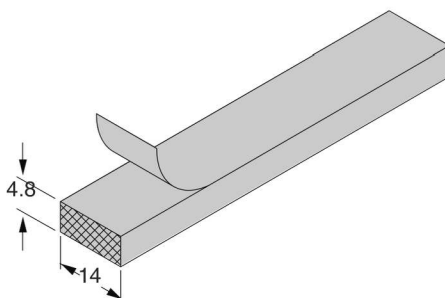


Ver aplicação na página 104

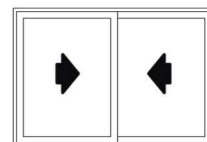


GUA-306

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 15 metros

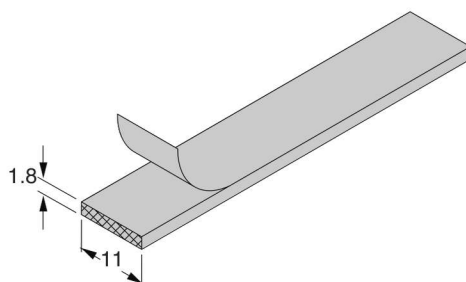


Ver aplicação na página 104

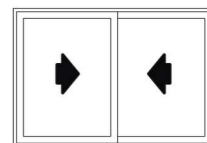


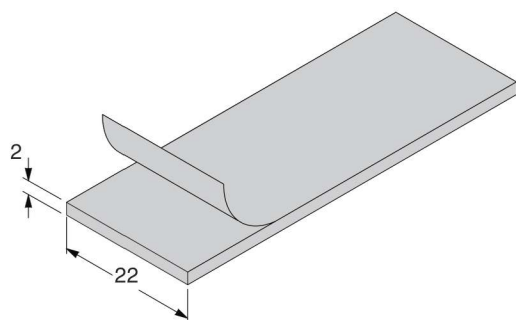
GUA-172

Guarnição adesiva esponjosa
Acabamento: Preto
Embalagem: 61 metros



Ver aplicação na página 104



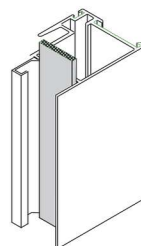


GUA-282

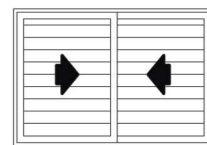
Guarnição adesiva esponjosa

Acabamento: Preto

Embalagem: 30 metros



Aplicação

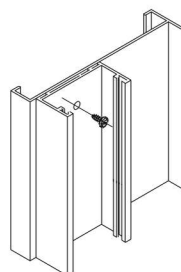


PAR-703

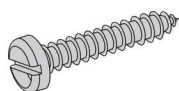
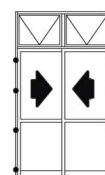
Parafuso 3.5x9.5mm cabeça panela

Acabamento: Inox preto

Embalagem: 100 peças



Aplicação

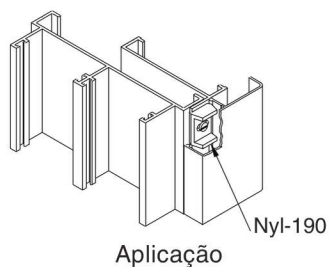


PAR-936

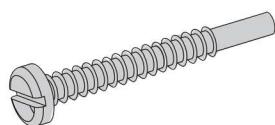
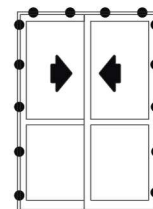
Parafuso 4.2x16mm cabeça panela

Acabamento: Inox

Embalagem: 100 peças



Aplicação

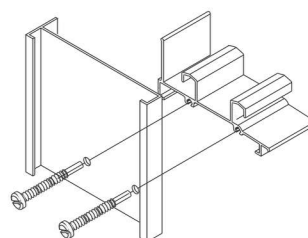


PAR-428

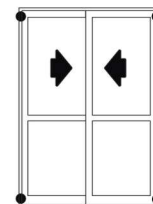
Parafuso 4.2x32mm cabeça panela

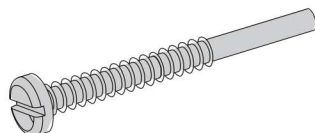
Acabamento: Inox

Embalagem: 100 peças



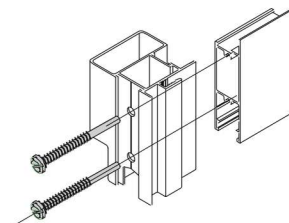
Aplicação



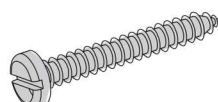
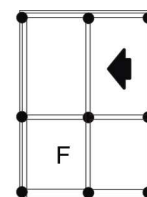


PAR-431

Parafuso 4.8x50mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

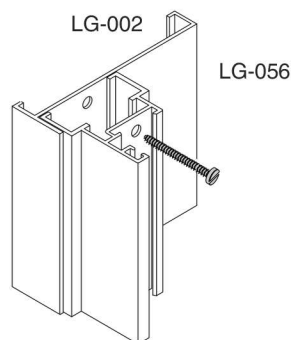


Aplicação

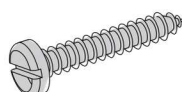


PAR-694

Parafuso 4.2x32mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

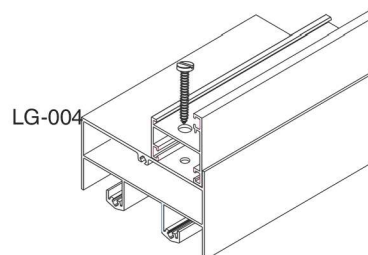


Aplicação

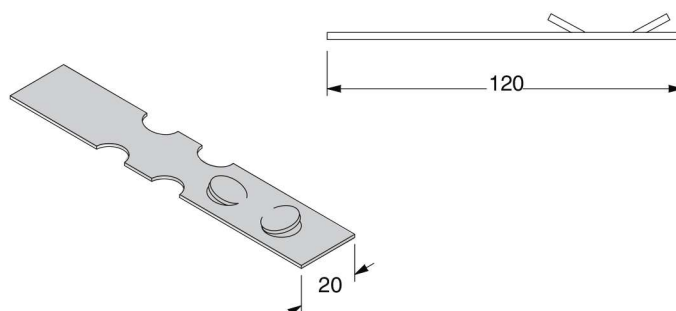
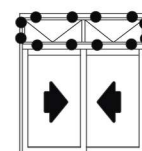


PAR-693

Parafuso 4.2x25mm cabeça panela
Acabamento: Inox
Embalagem: 100 peças

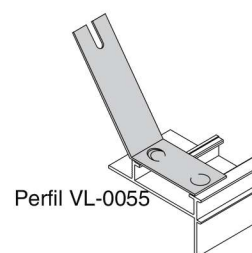


Aplicação

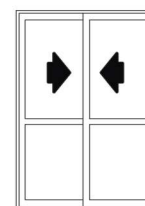


CHU-879

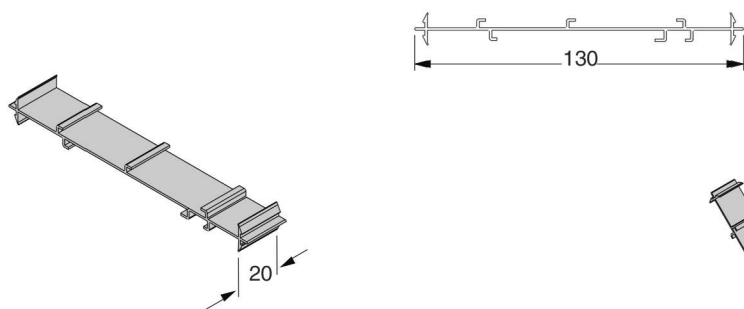
Chumbador para contramarco
Acabamento: Aço zincado
Embalagem: 50 peças



Aplicação

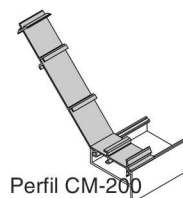


Perfil base CM-093



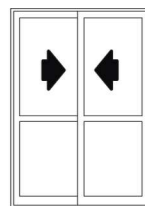
CHU-838

Chumbador para contramarco
Acabamento: Alumínio natural
Embalagem: 50 peças

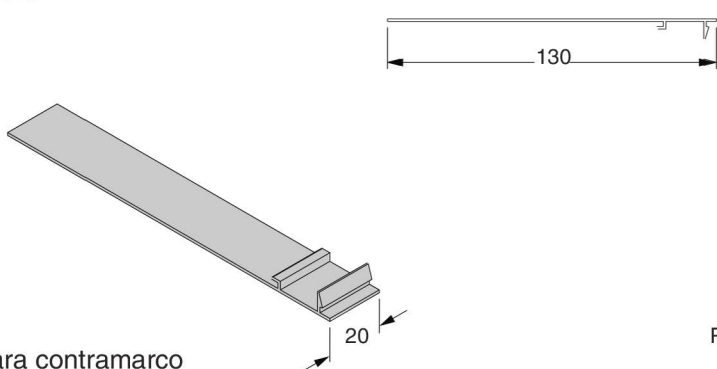


Perfil CM-200

Aplicação

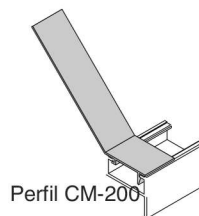


Perfil base CM-099



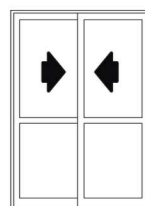
CHU-840

Chumbador para contramarco
Acabamento: Alumínio natural
Embalagem: 50 peças

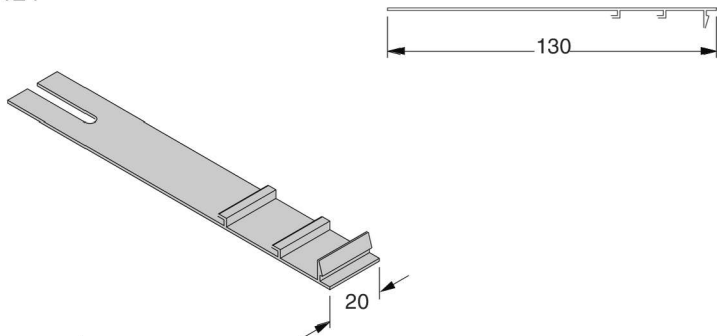


Perfil CM-200

Aplicação

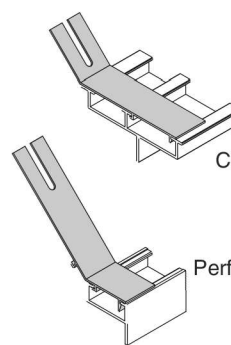


Perfil base CM-124



CHU-864

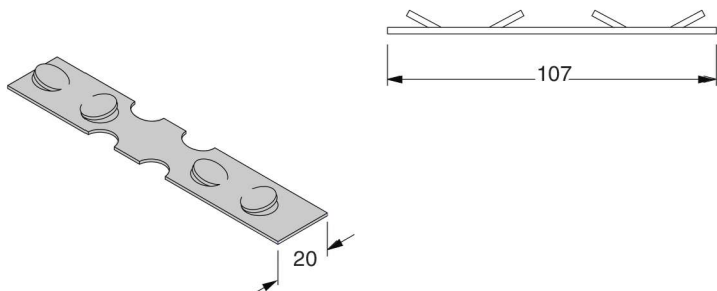
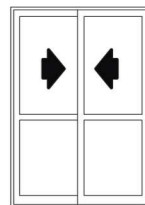
Chumbador para contramarco
Acabamento: Alumínio natural
Embalagem: 50 peças



CM-125

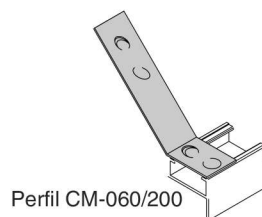
Perfil CM-060/098/200

Aplicação



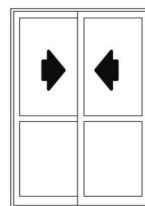
CHU-787

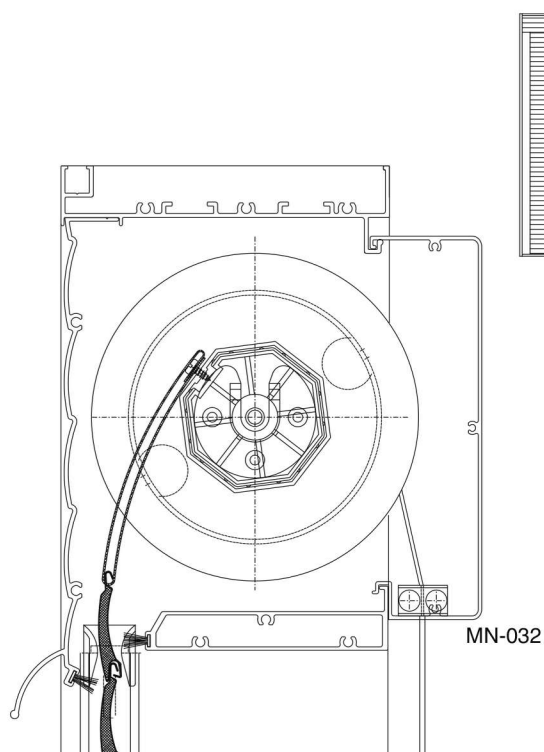
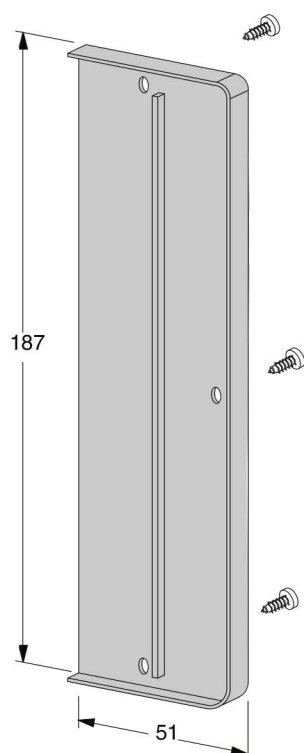
Chumbador para contramarco
Acabamento: Aço zincado
Embalagem: 50 peças



Perfil CM-060/200

Aplicação





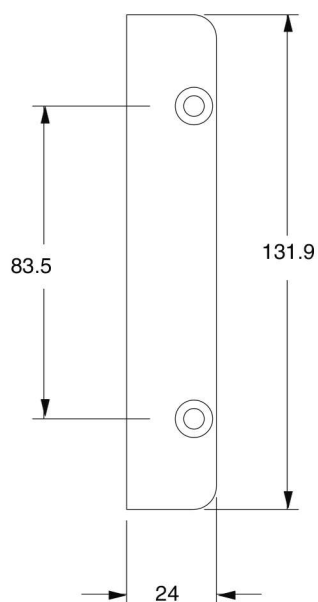
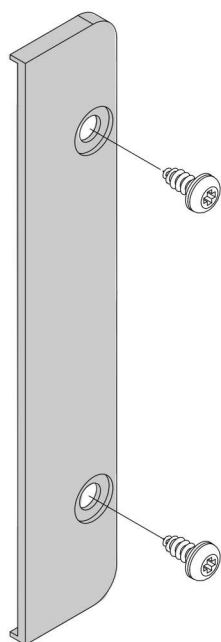
Aplicação

NYL-383

Tampainterna da caixa interna da persiana

Acabamento: Nylon preto

Embalagem: 10 peças



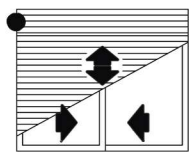
Aplicação

NYL-411

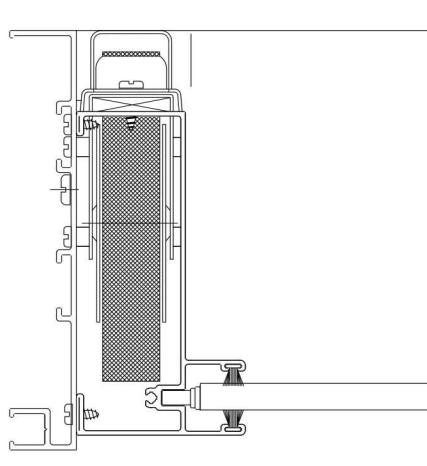
Tampainterna da caixa da persiana

Acabamento: Nylon preto

Embalagem: 10 peças



OBS: Instalação direita ou esquerda



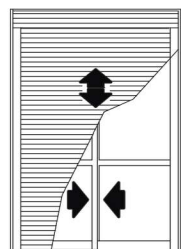
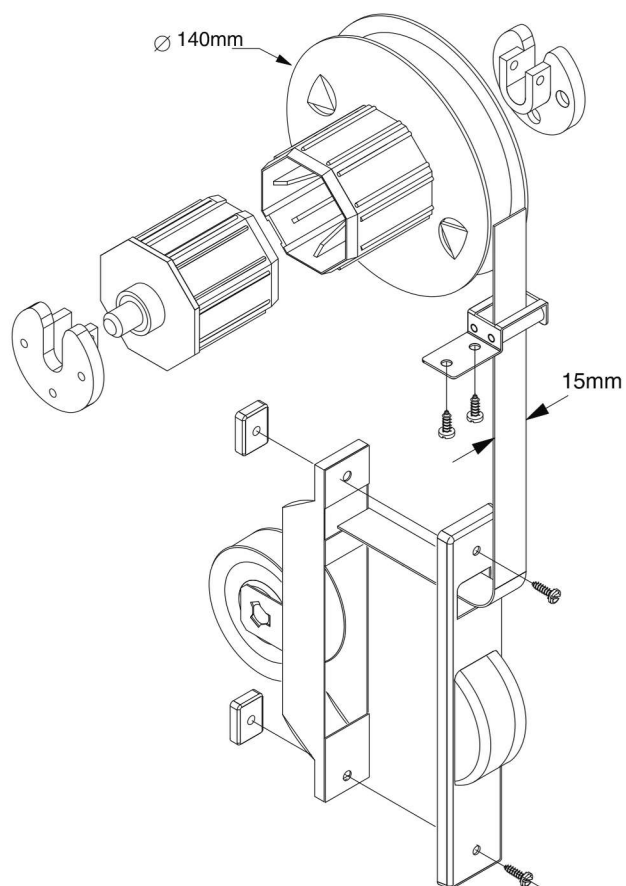
Aplicação

REC-012

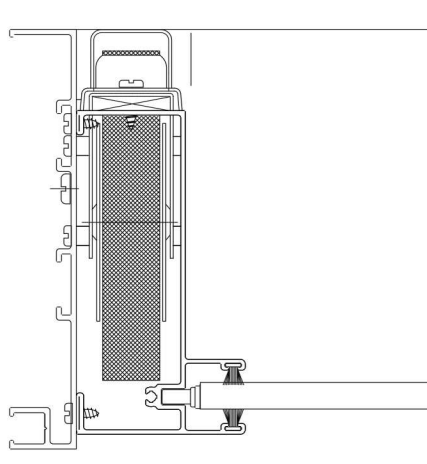
Recolhedor 140mm com fita 15mm e mola de retorno

Acabamento: Nylon preto

Embalagem: 1 peça



OBS: Instalação direita ou esquerda



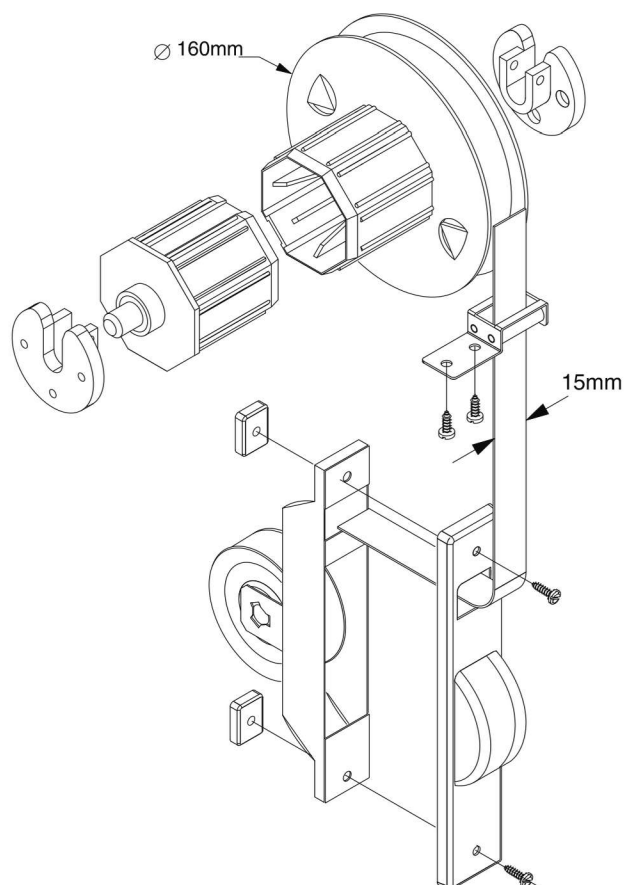
Aplicação

REC-013

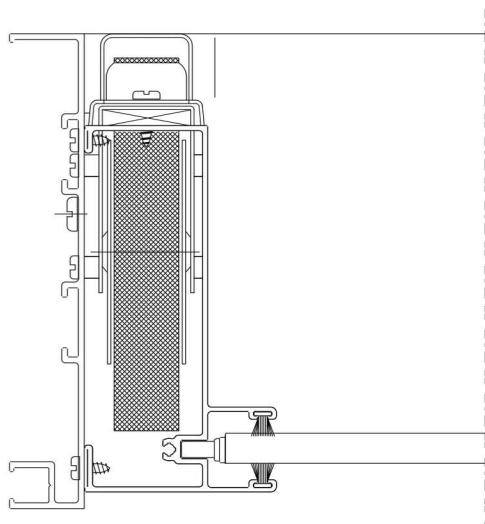
Recolhedor 160mm com fita 15mm e mola de retorno

Acabamento: Nylon preto

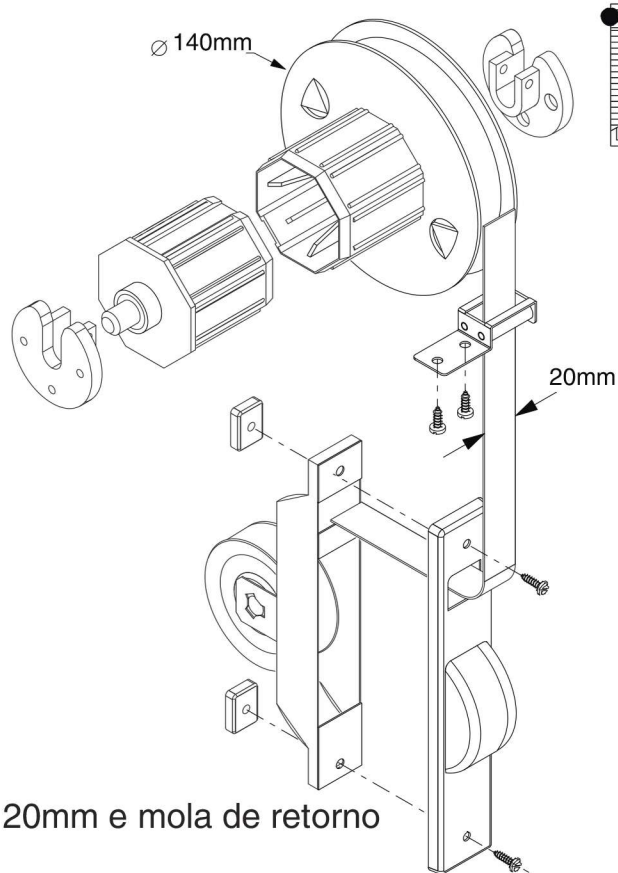
Embalagem: 1 peça



OBS: Instalação direita ou esquerda



Aplicação

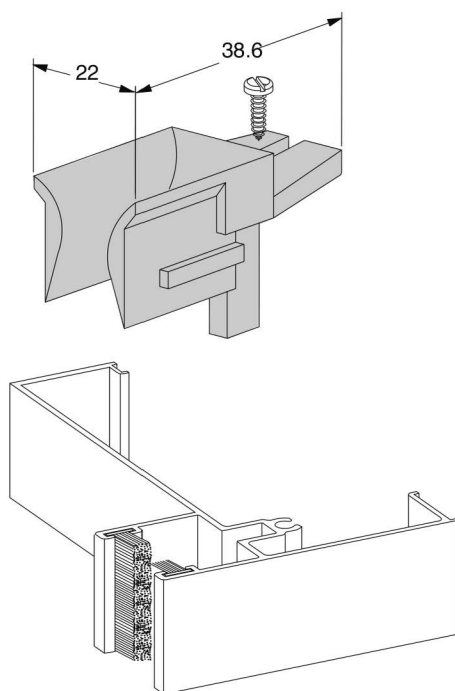


**OPCIONAL
REC-011**

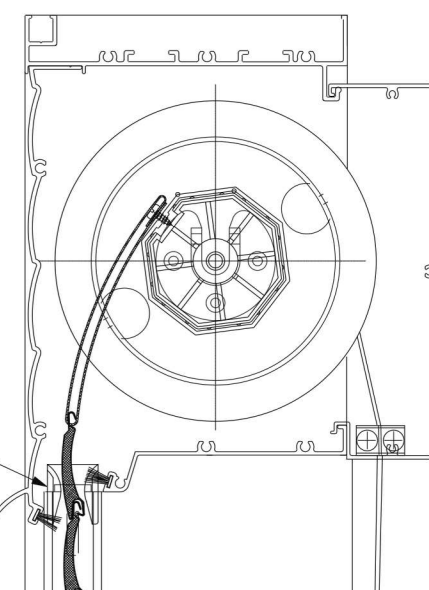
Descrição: Recolhedor Ø140mm c/ fita 20mm e mola de retorno

Acabamento: Nylon preto

Embalagem: 1 peça



NYL-370



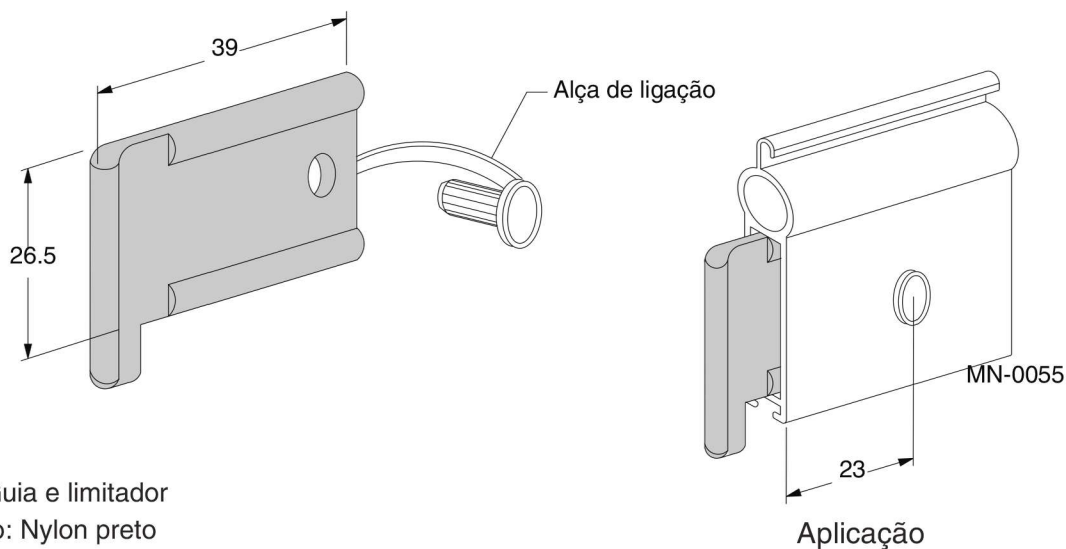
Aplicação

NYL-370

Descrição: Guia da persiana

Acabamento: Nylon preto

Embalagem: 25 peças com parafusos

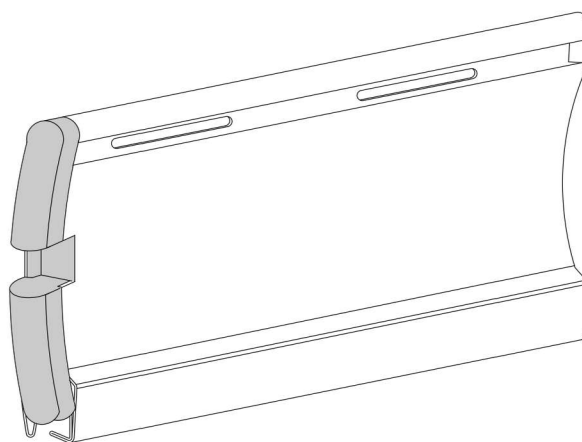
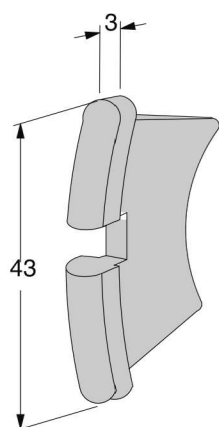


NYL-369

Descrição: Guia e limitador

Acabamento: Nylon preto

Embalagem: 25 peças



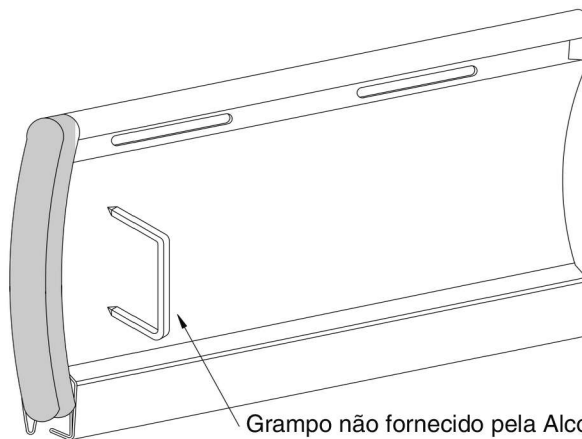
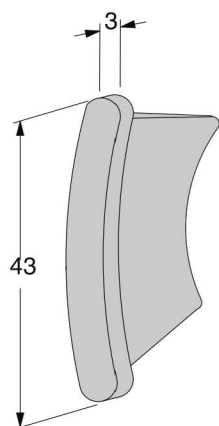
Aplicação

NYL-375

Descrição: Tampa da persiana - Importada

Acabamento: Nylon preto

Embalagem: 200 peças



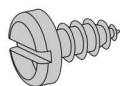
Aplicação

NYL-447

Descrição: Tampa da persiana grampeada - Udinese

Acabamento: Nylon preto

Embalagem: 200 peças

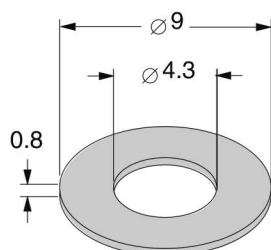
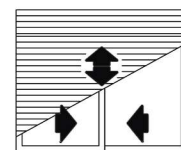
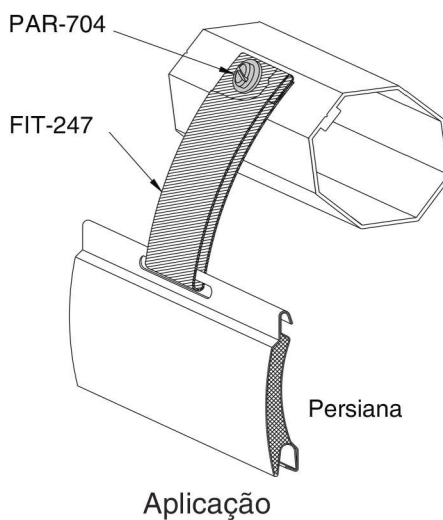


PAR-704

Descrição: Parafuso auto-atarraxante 3.9x6.5mm

Acabamento: Aço inoxidável preto

Embalagem: 100 peças

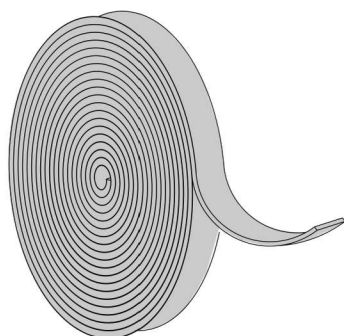
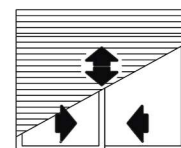
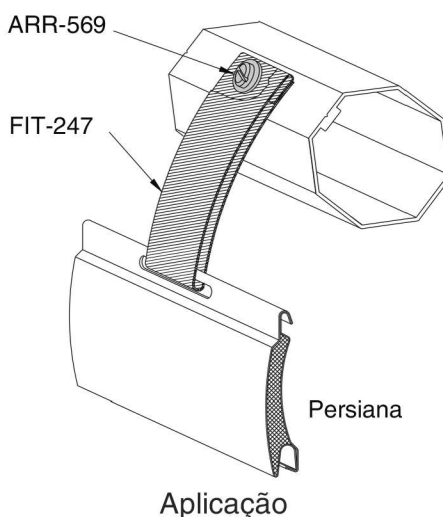


ARR-569

Descrição: Arruela lisa 4.3x9mm

Acabamento: Aço inoxidável

Embalagem: 500 peças



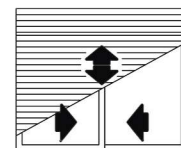
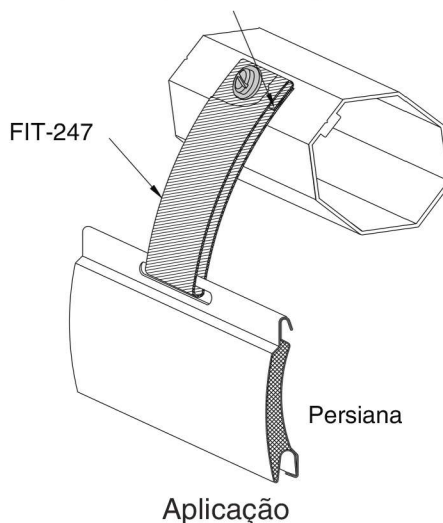
FIT-247

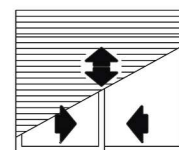
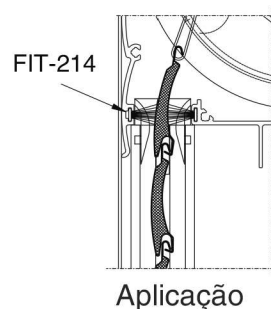
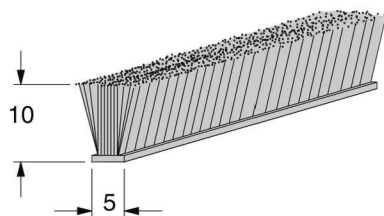
Descrição: Fita de ligação da persiana

Acabamento: Nylon preto

Embalagem: Rolo com 50m

OBS: Aquecer as pontas da fita para não desfiar



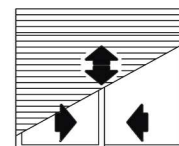
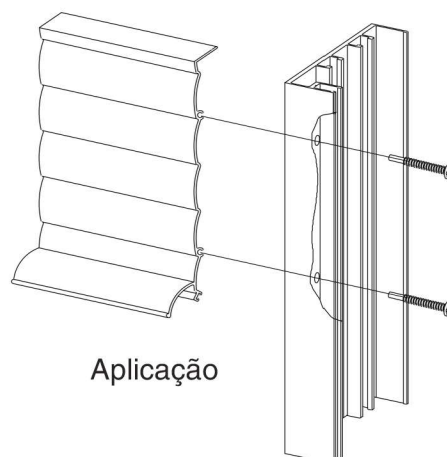
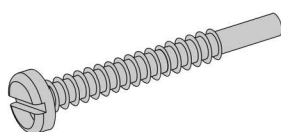
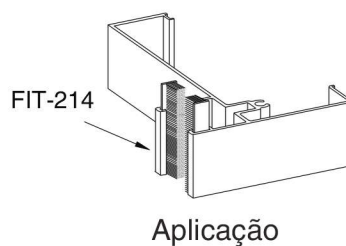


FIT-214

Descrição: Fita vedadora 5x10mm

Acabamento: Preto

Embalagem: Rolo com 50m

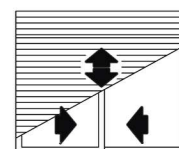
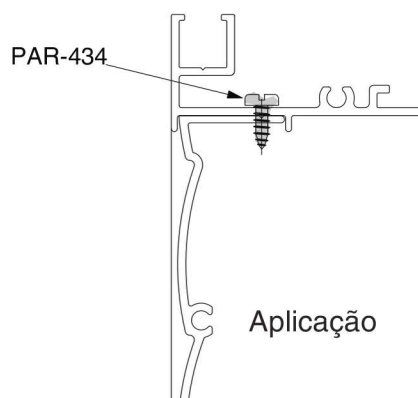
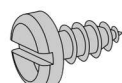


PAR-428

Descrição: Parafuso auto-atarraxante 4,8 X 32mm

Acabamento: Aço inoxidável

Embalagem: 100 peças

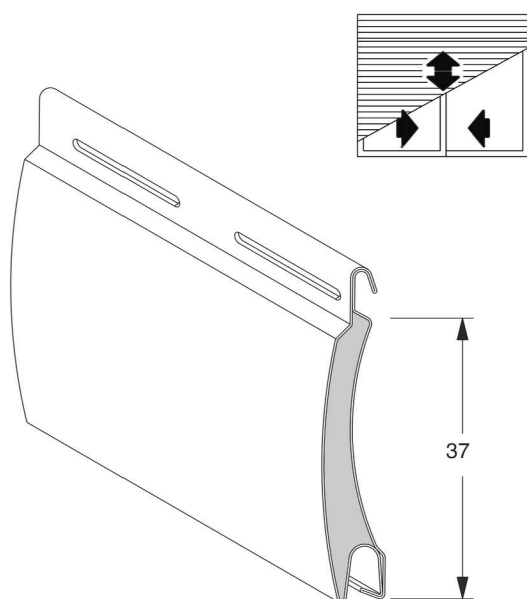


PAR-434

Descrição: Parafuso auto-atarraxante 3.9x9.5mm

Acabamento: Aço inoxidável

Embalagem: 100 peças



Ventiladas

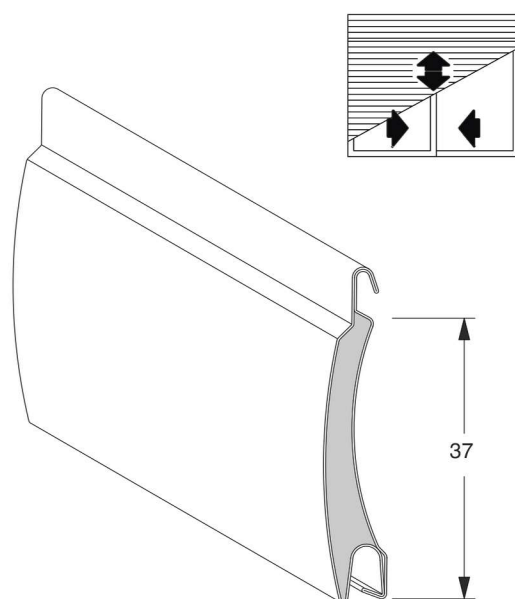
VZP-031 Branca

VZP-032 Prata

VZP-033 Bronze 1003

VZP-034 Preta

Barras com 6.000mm



Sem ventilação

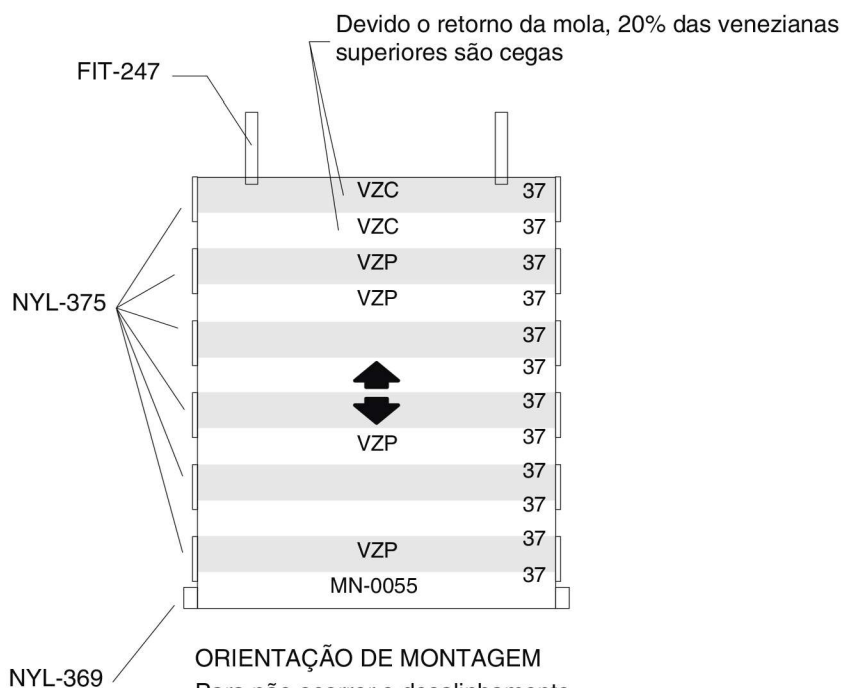
VZC-110 Branca

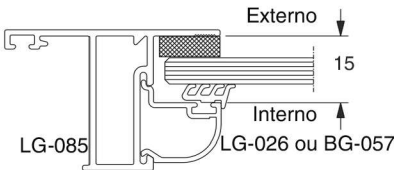
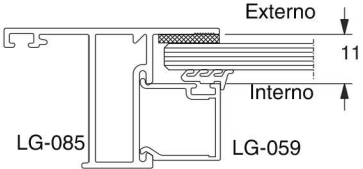
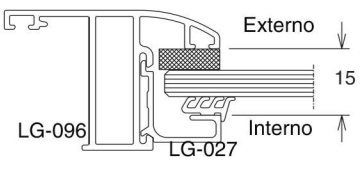
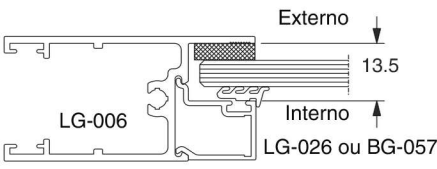
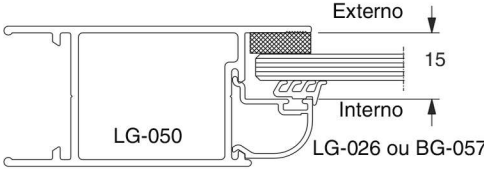
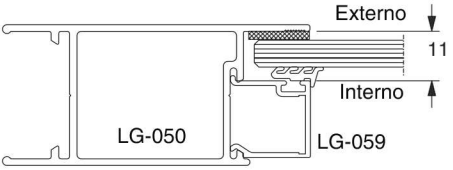
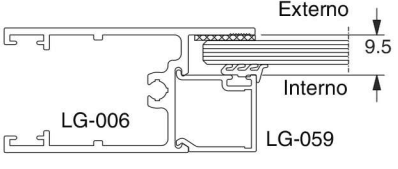
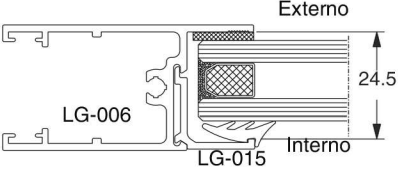
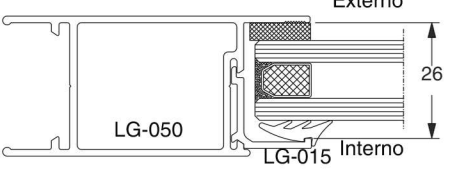
VZC-111 Prata

VZC-112 Bronze 1003

VZC-113 Preta

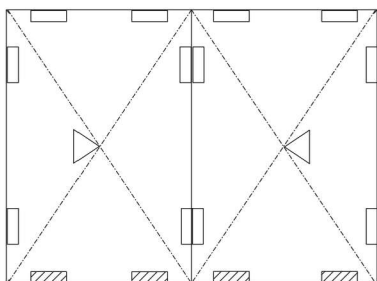
Barras com 6.000mm



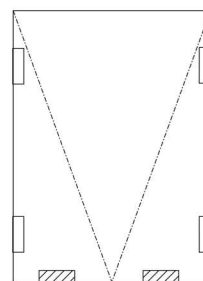
Detalhes	Esp. de vidro	Guarnição interna	Guarnição externa
	6	GUA-256	GUA-304
	8	GUA-259	GUA-304
	10	GUA-259	GUA-306
	4	GUA-259	GUA-304
	6	GUA-259	GUA-306
	6	GUA-256	GUA-306
	8	GUA-259	GUA-304
	10	GUA-259	GUA-306
	6	GUA-256	GUA-306
	8	GUA-259	GUA-306
	10	GUA-259	GUA-305
	6	GUA-256	GUA-304
	8	GUA-259	GUA-304
	10	GUA-259	GUA-306
	4	GUA-256	GUA-304
	6	GUA-259	GUA-306
	4	GUA-259	GUA-306
	6	GUA-259	GUA-305
	17	GUA-303	GUA-306
	20	GUA-303	GUA-305
	17	GUA-303	GUA-304
	20	GUA-303	GUA-306

Instrução de posicionamento dos calços do vidro

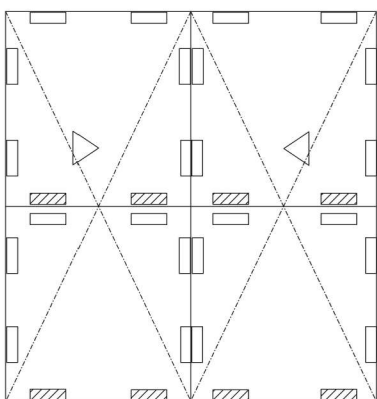
Janela de correr



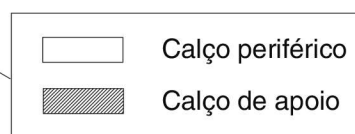
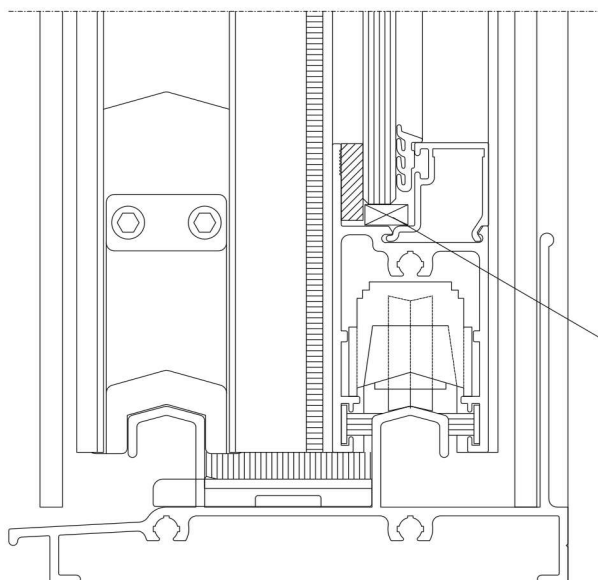
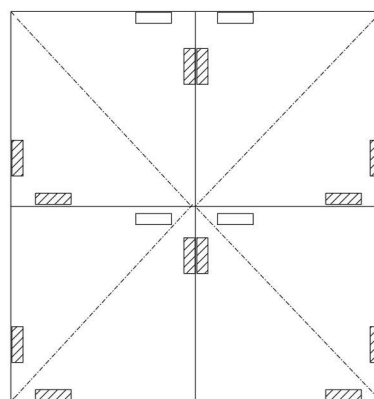
Maxim-ar



Porta de correr



Porta de giro



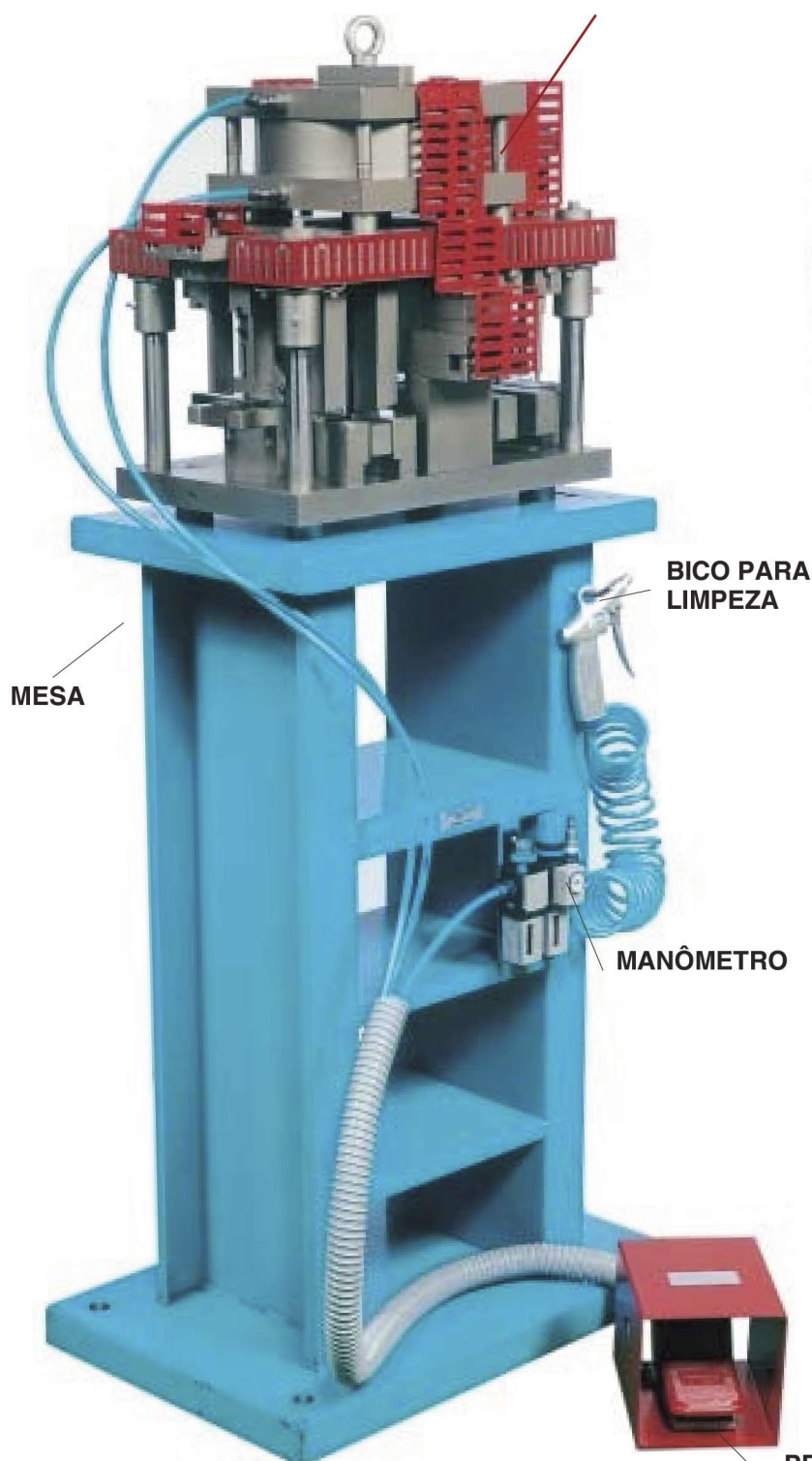


Capítulo 7

**Equipamento
Estampos
Usinagens**

EST-581

**PULMÃO
PNEUMÁTICO**



EST-582



COMPONENTES EST-581/582

- FERRAMENTA
- MESA
- PEDAL DE ACIONAMENTO
- MANÔMETRO
- BICO PARA LIMPEZA



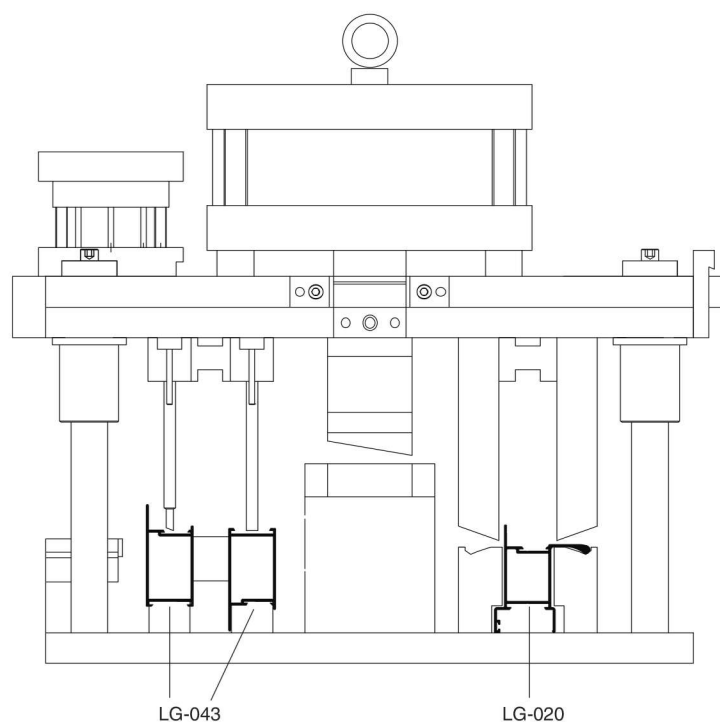
MAQ-840

**PEDAL DE ACIONAMENTO
COM PROTEÇÃO**

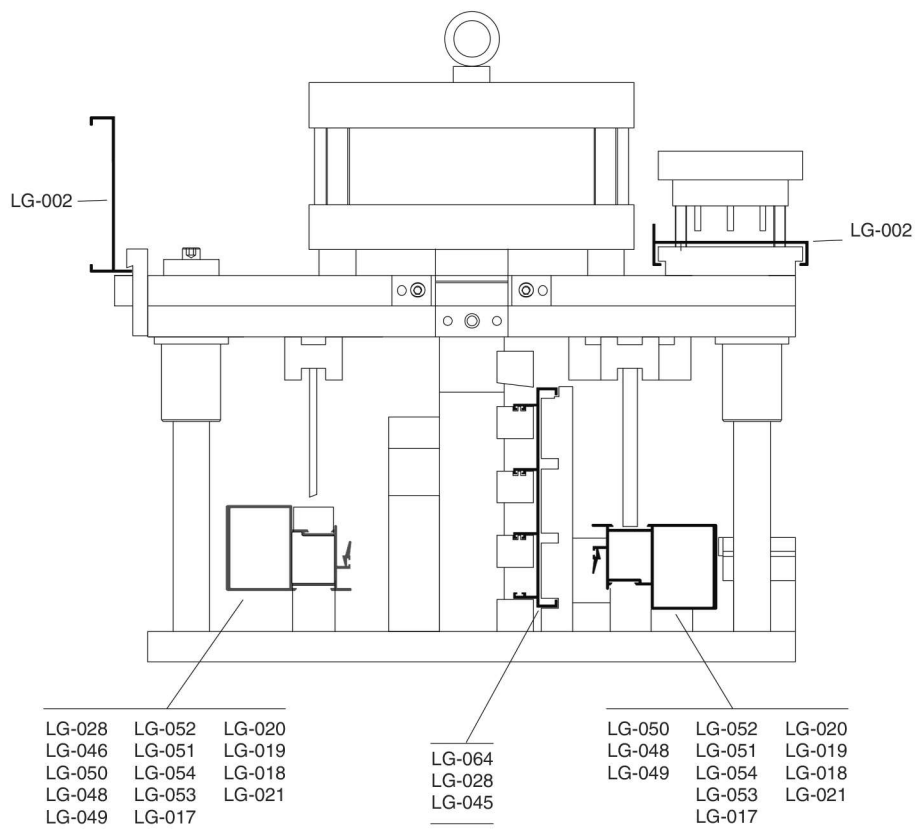


Entre muitas características inovadoras, a linha III Gold incorpora duas prensas pneumáticas e uma fresa exclusiva para serem utilizadas pelo fabricante de esquadrias na usinagem dos perfis. O equipamento garantirá qualidade consistente nas usinagens e, por consequência, nas esquadrias em um nível de profundidade muito superior ao obtido atualmente com qualquer dos produtos disponíveis.

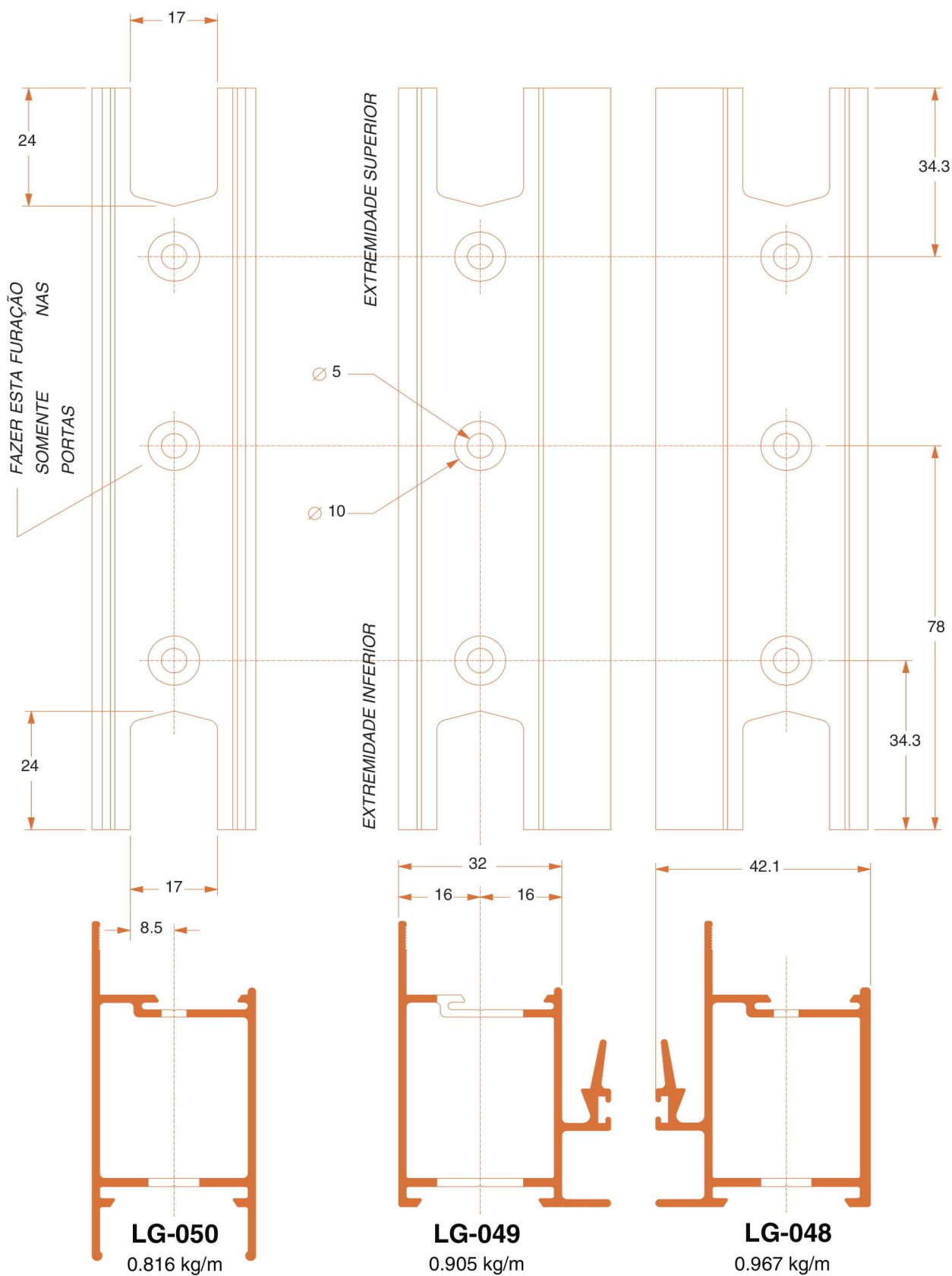
Vista Frontal



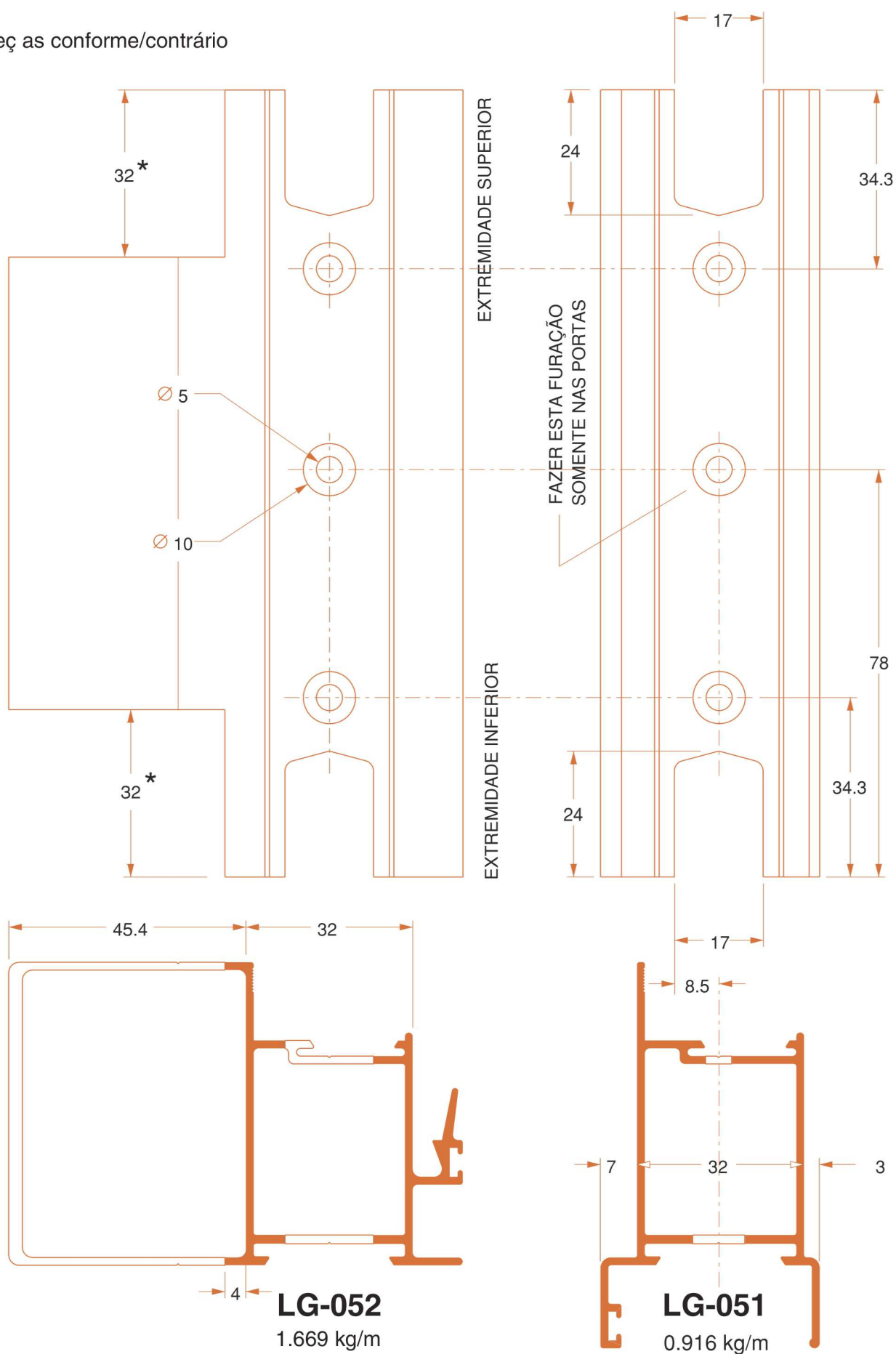
Vista Posterior



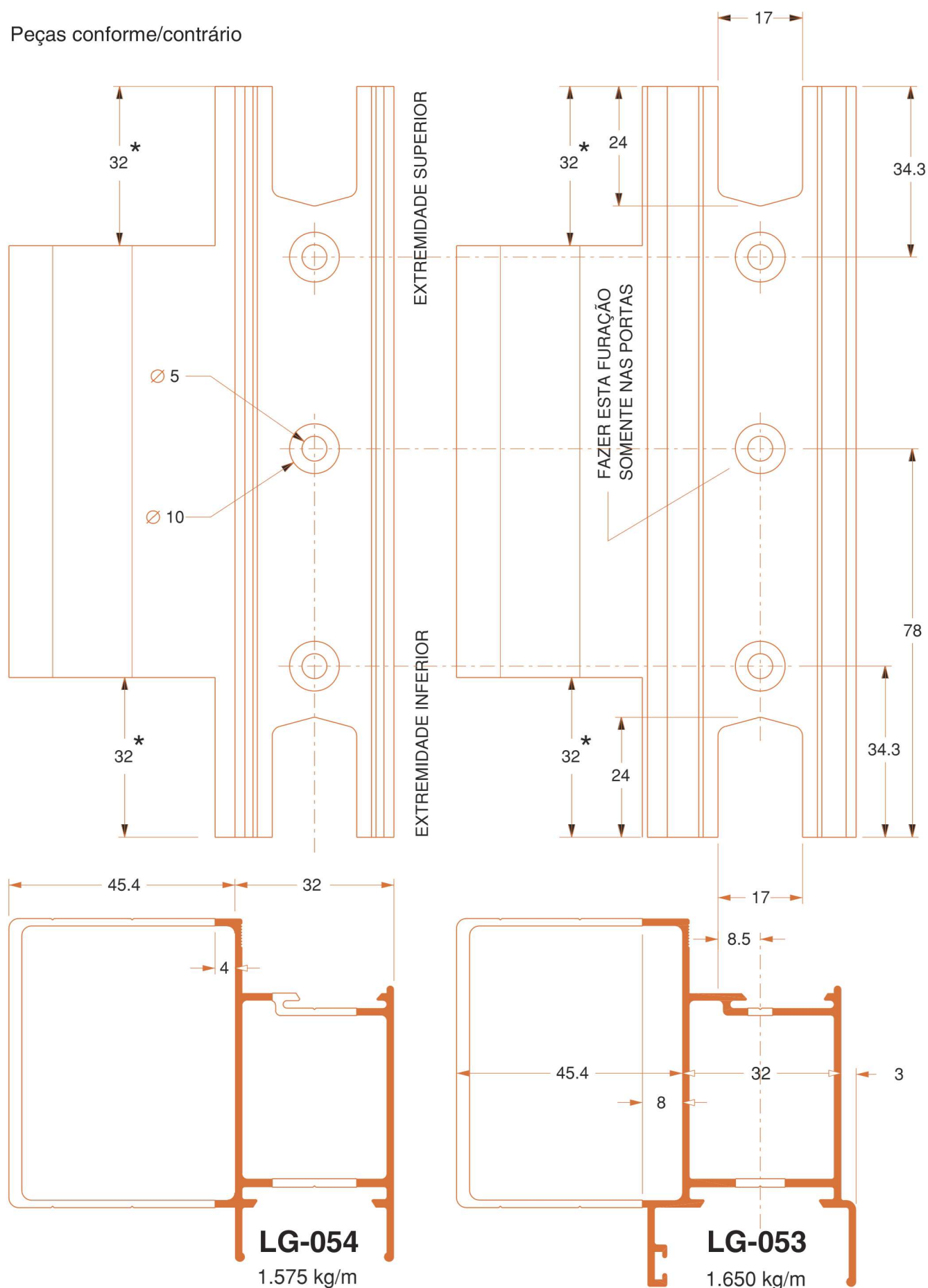
Peças conforme/contrário



Peças conforme/contrário

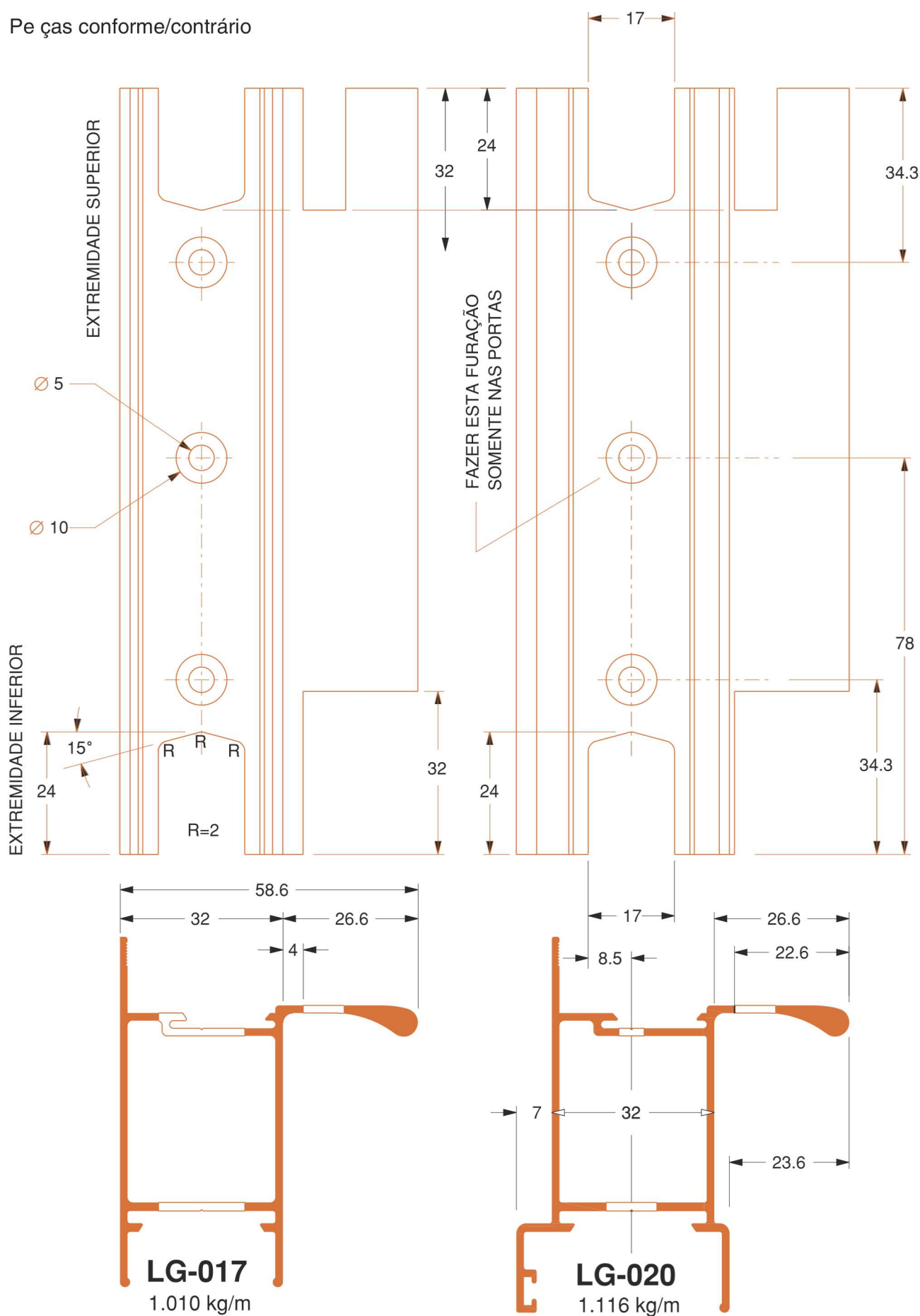


Peças conforme/contrário

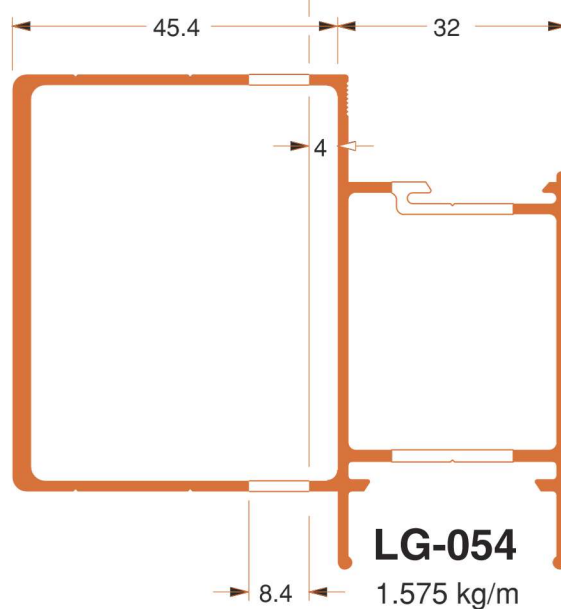
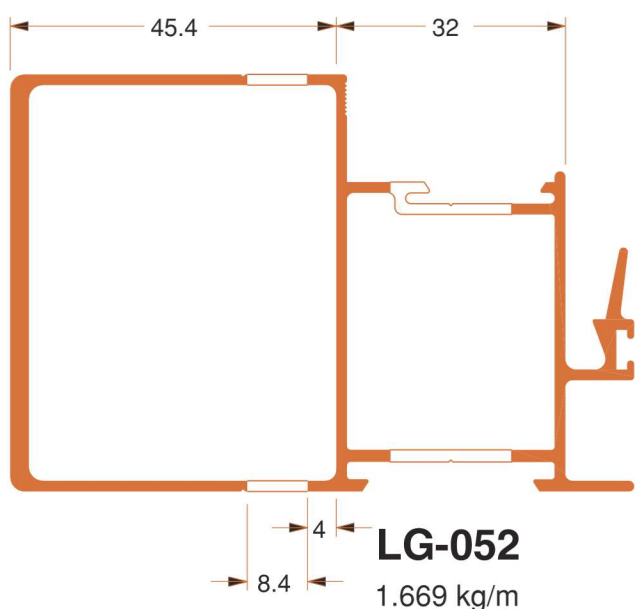
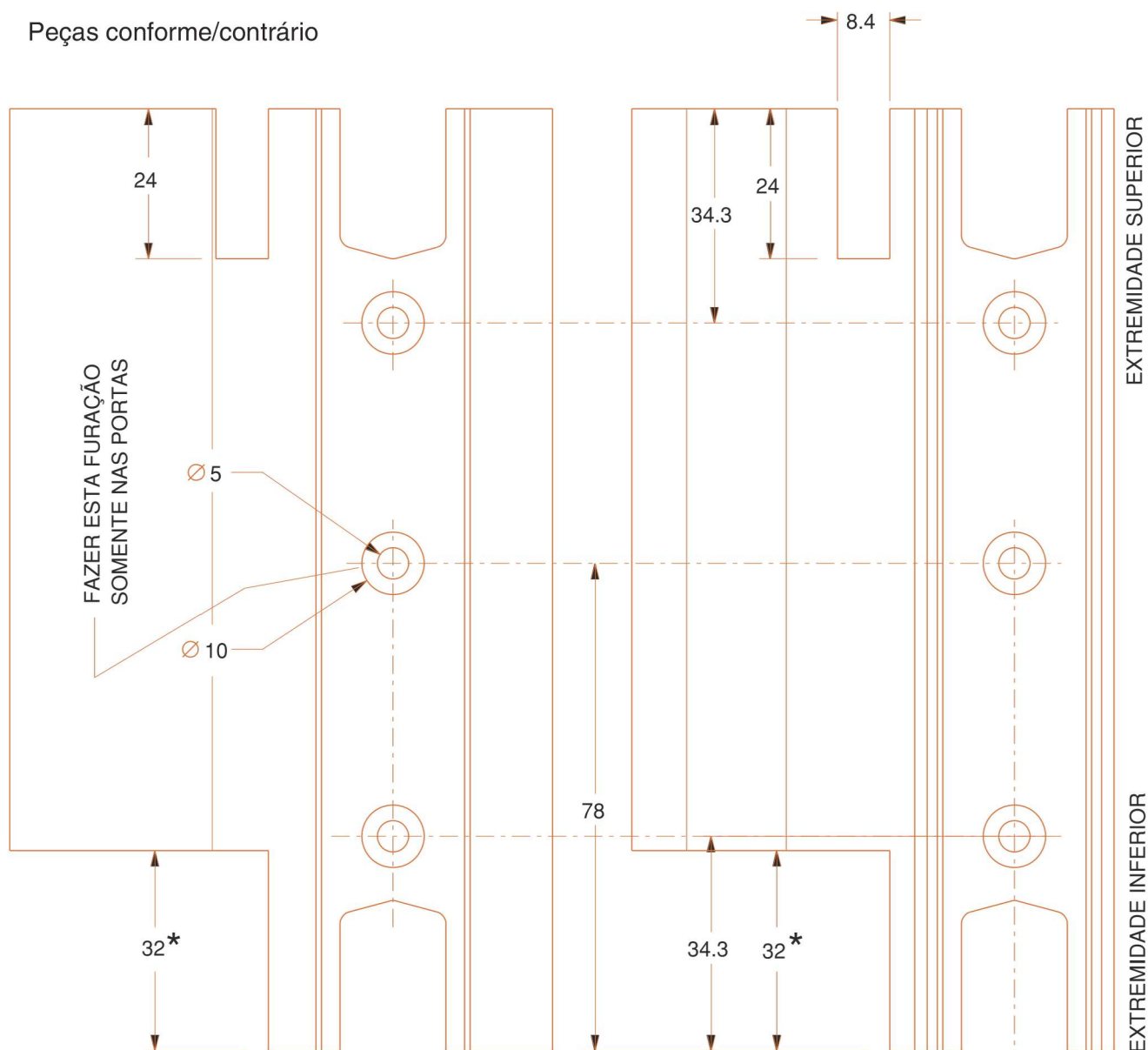


*FRESA

Peças conforme/contrário

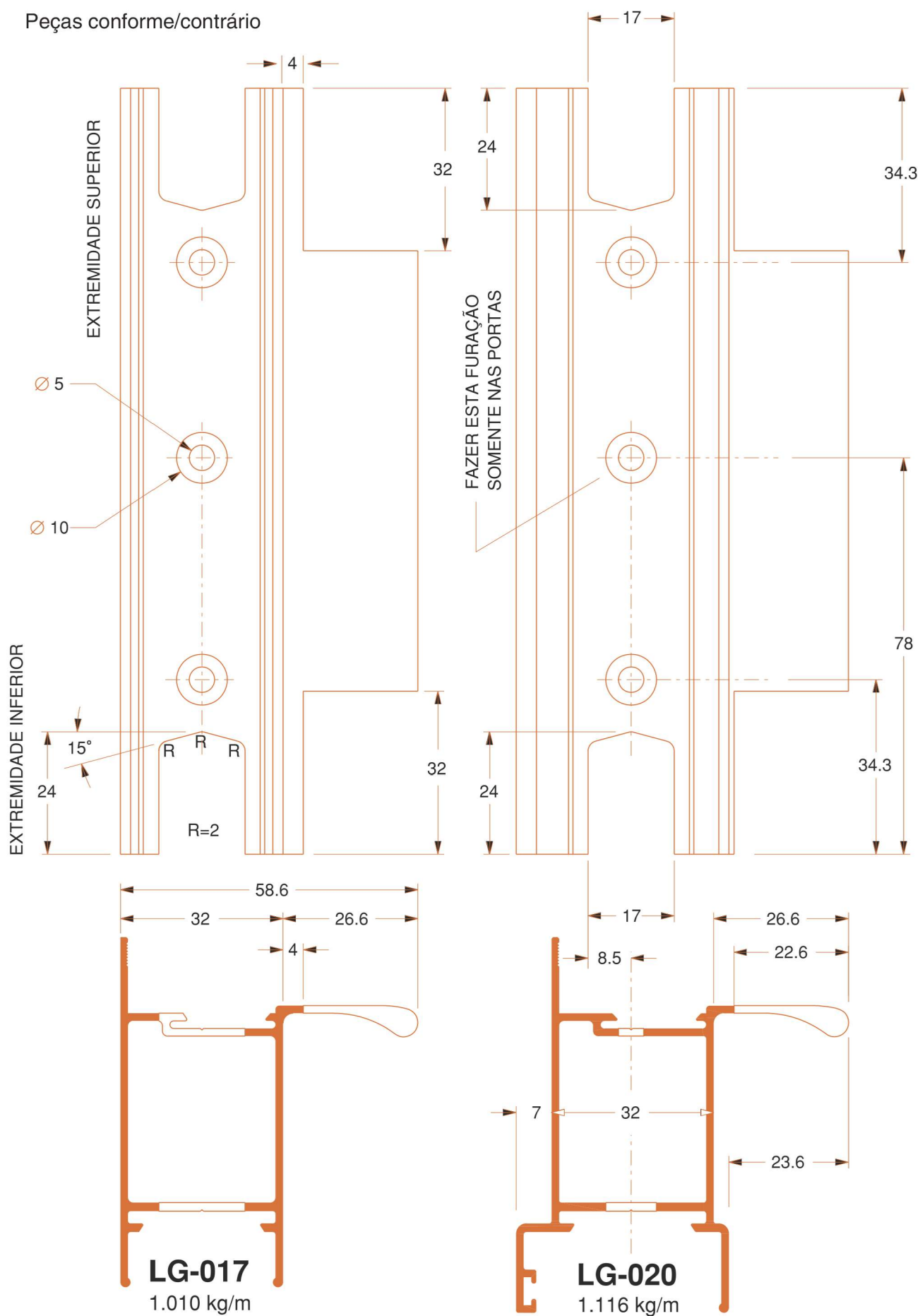


Peças conforme/contrário

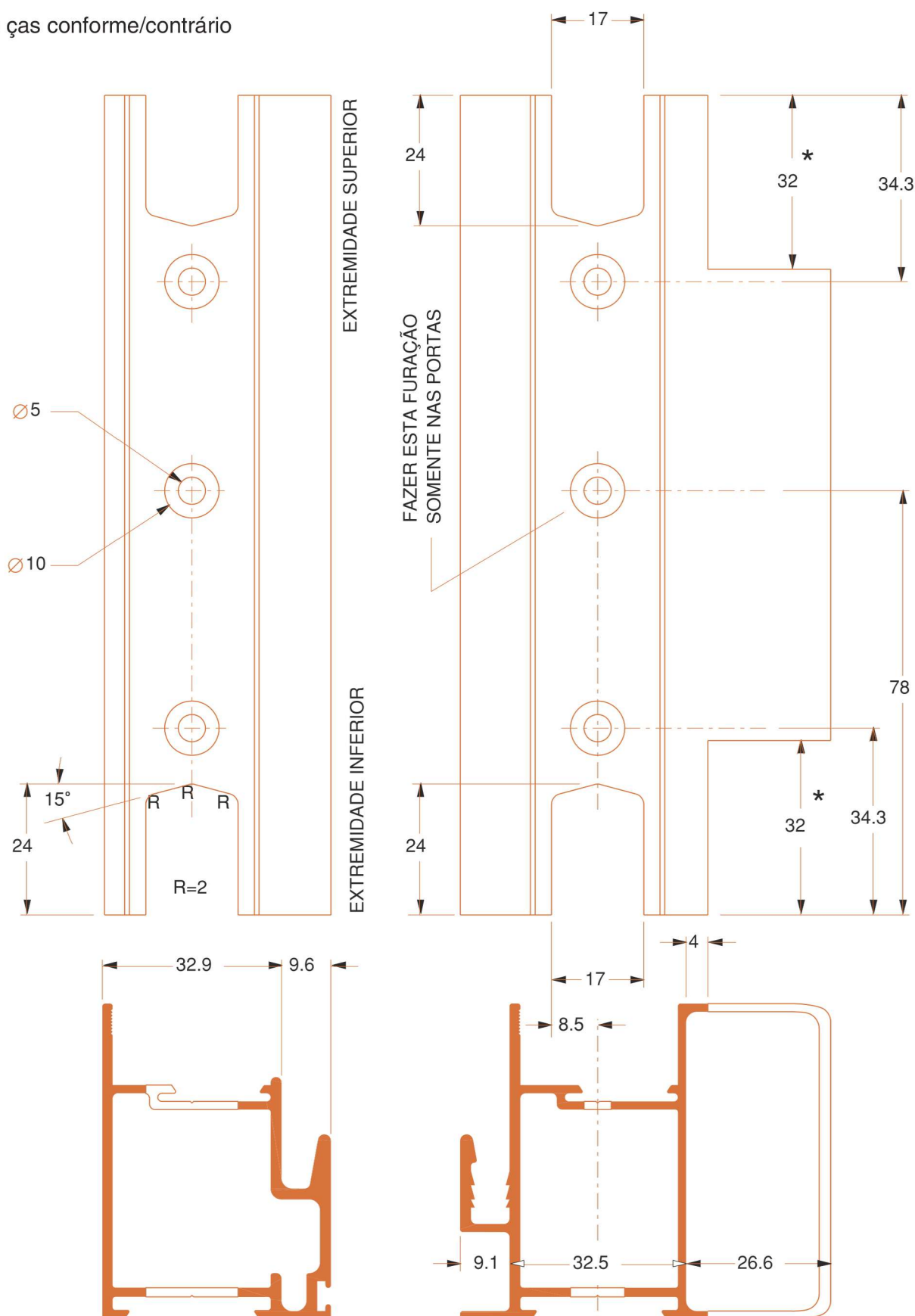


*FRESA

Peças conforme/contrário



Peças conforme/contrário

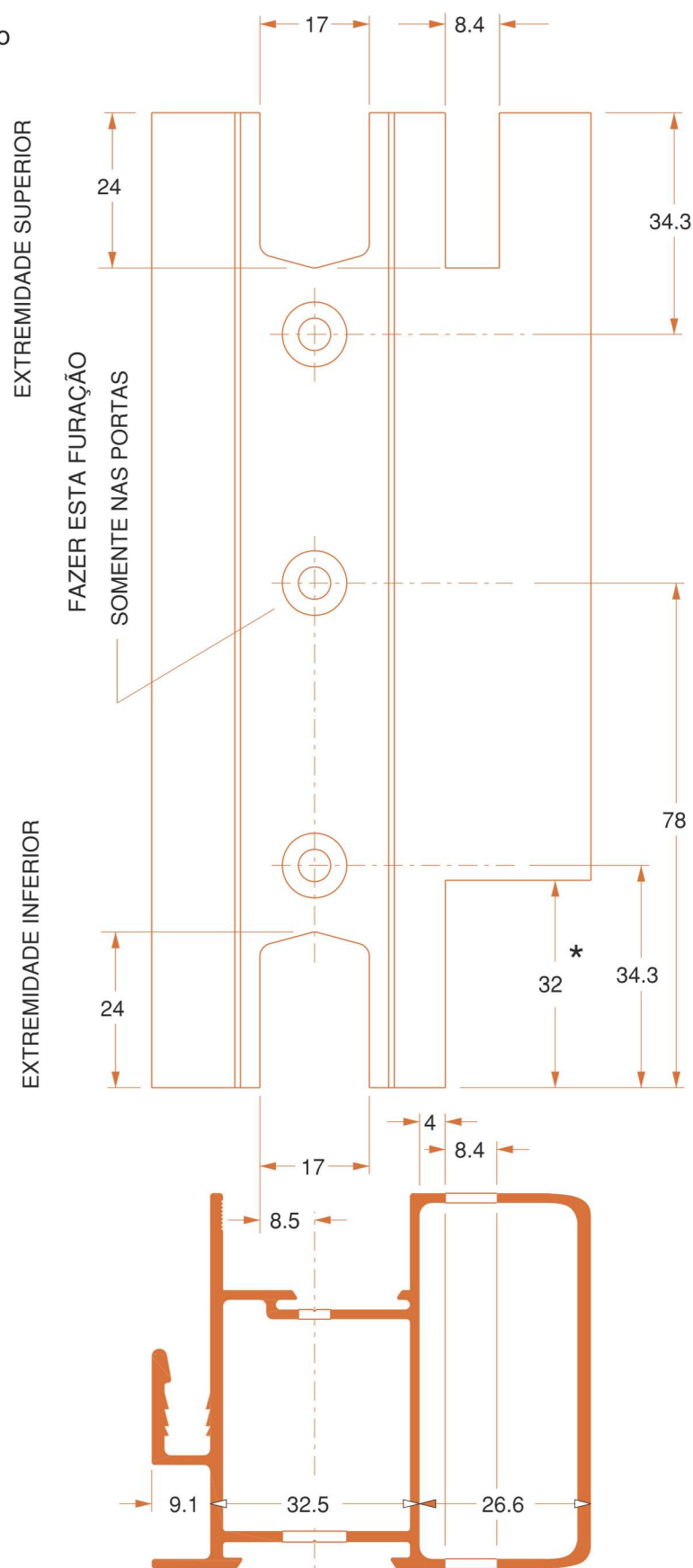


LG-019
1.080 kg/m

LG-018
1.572 kg/m

*FRESA

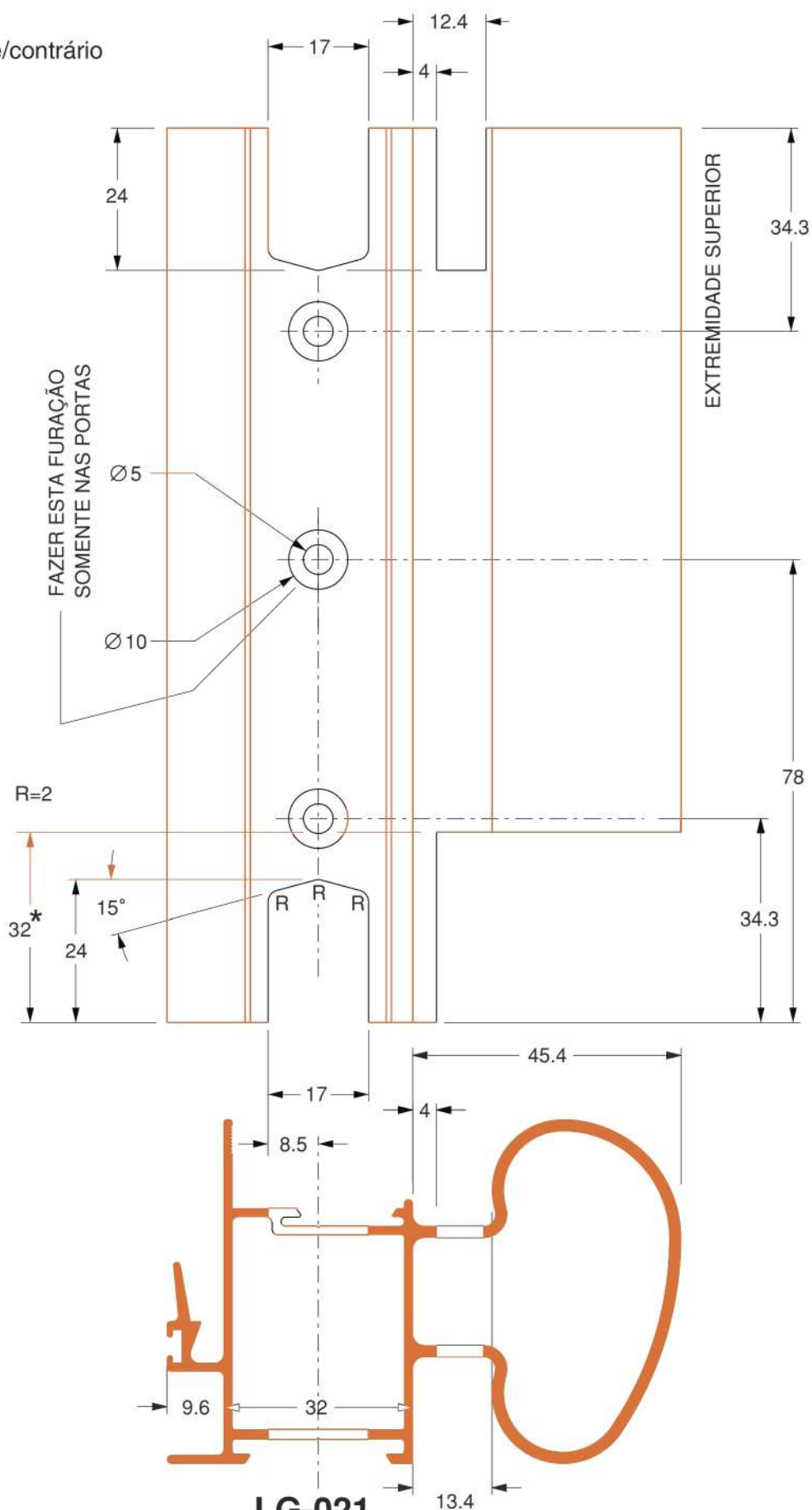
Pe ça conforme/contrário



LG-018
1.572 kg/m

***FRESA**

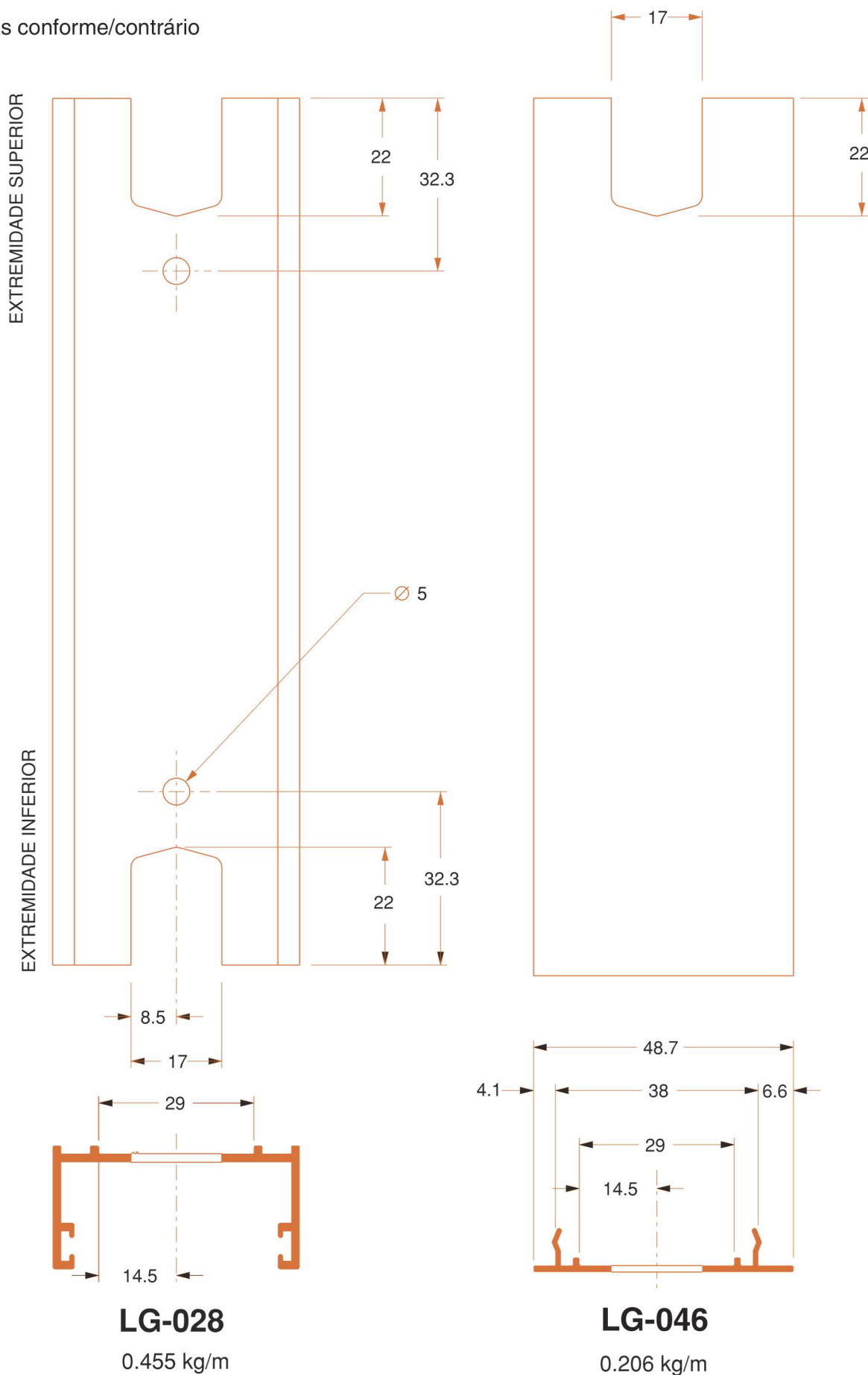
Peça conforme/contrário



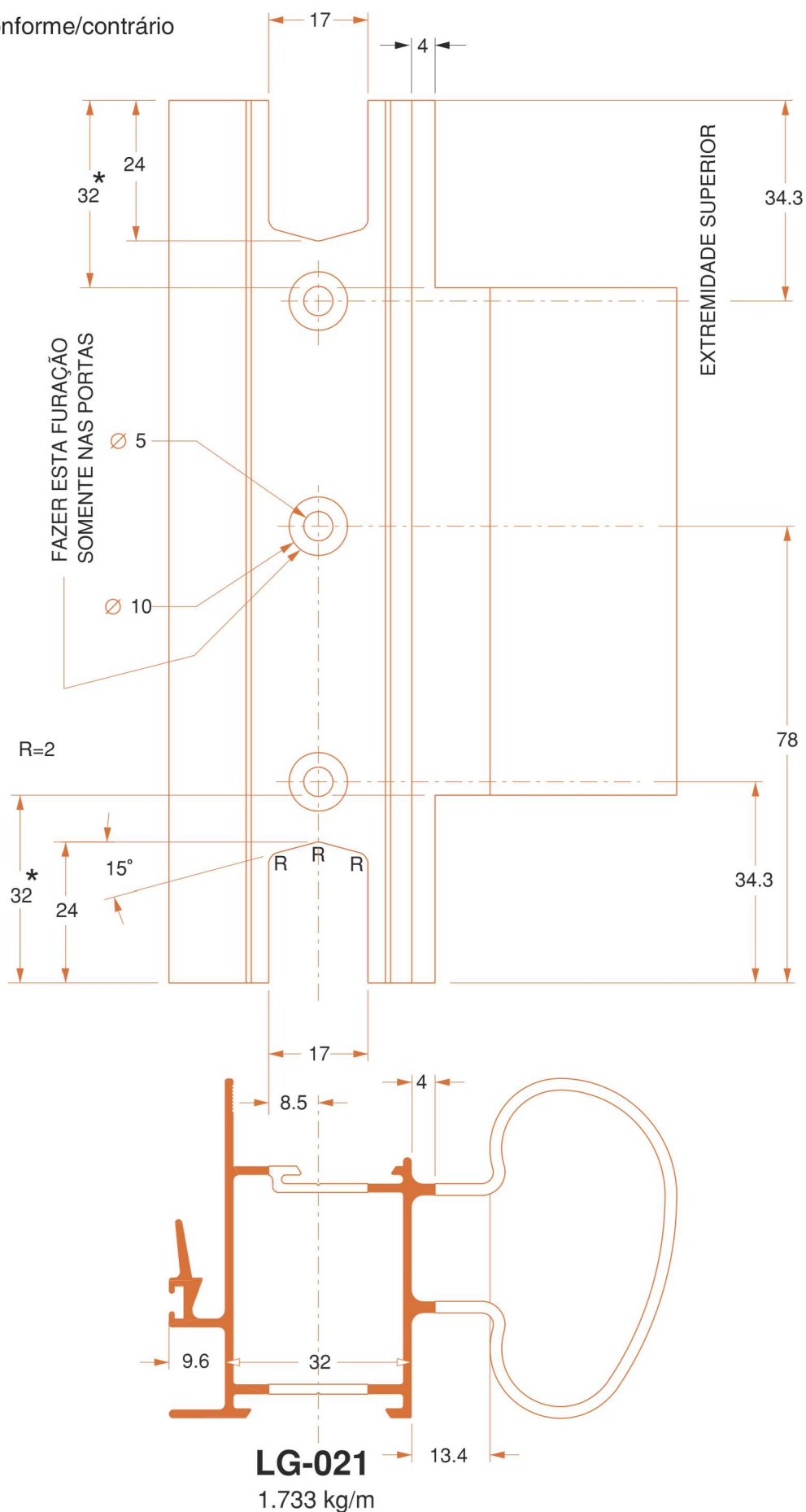
***FRESA**

LG-021
1.733 kg/m

Peças conforme/contrário

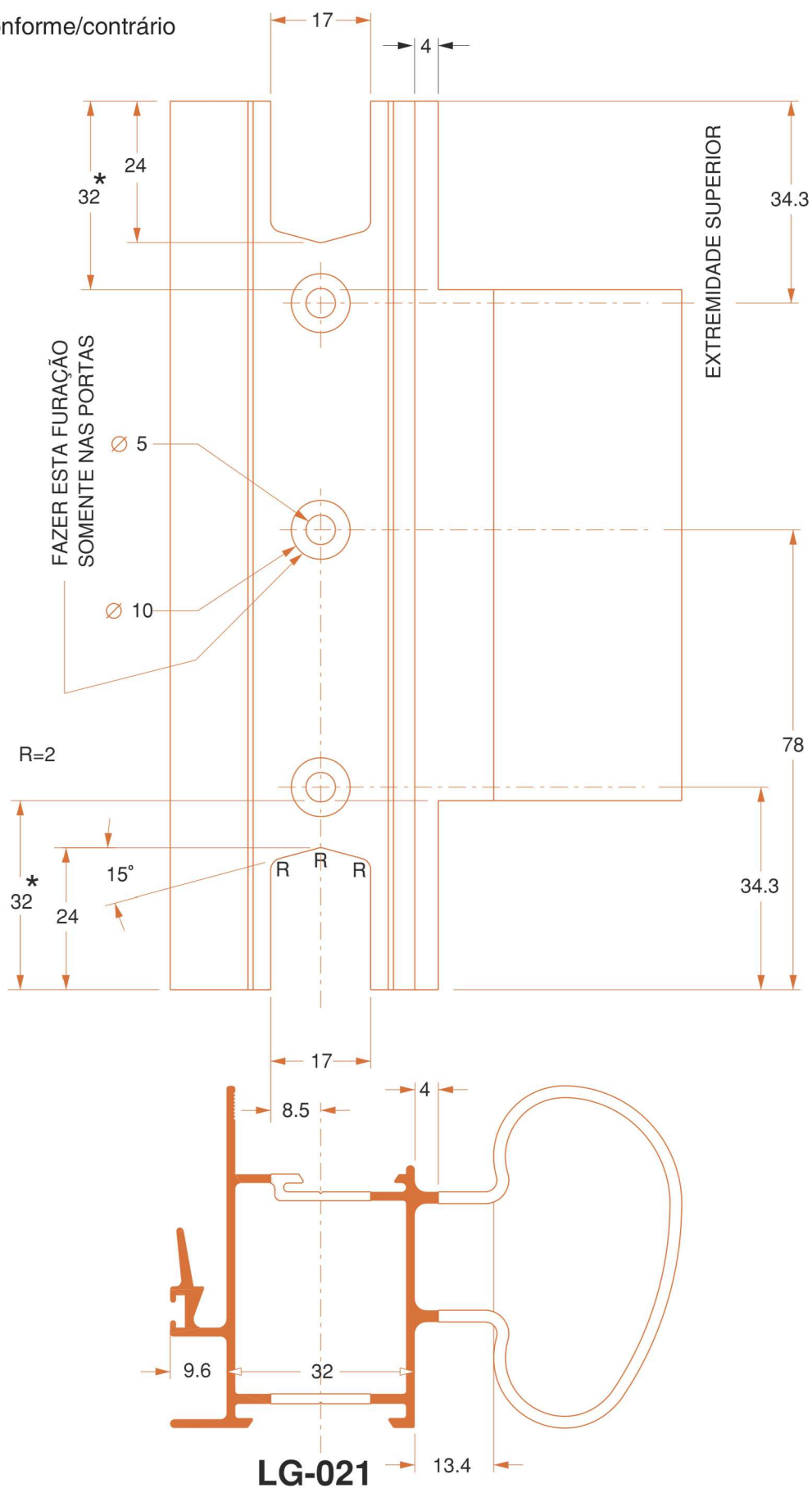


Peça conforme/contrário



***FRESA**

Peça conforme/contrário

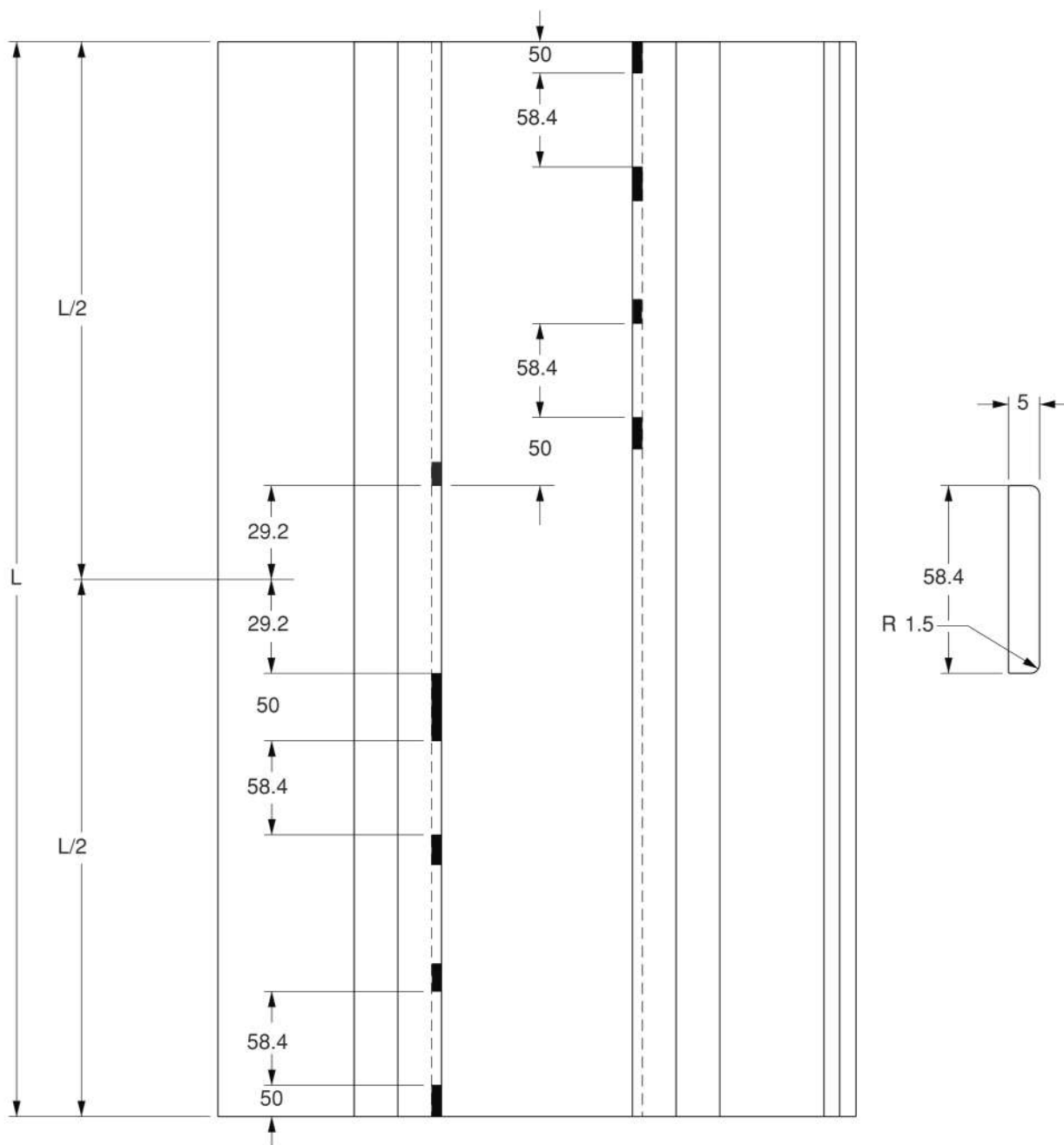
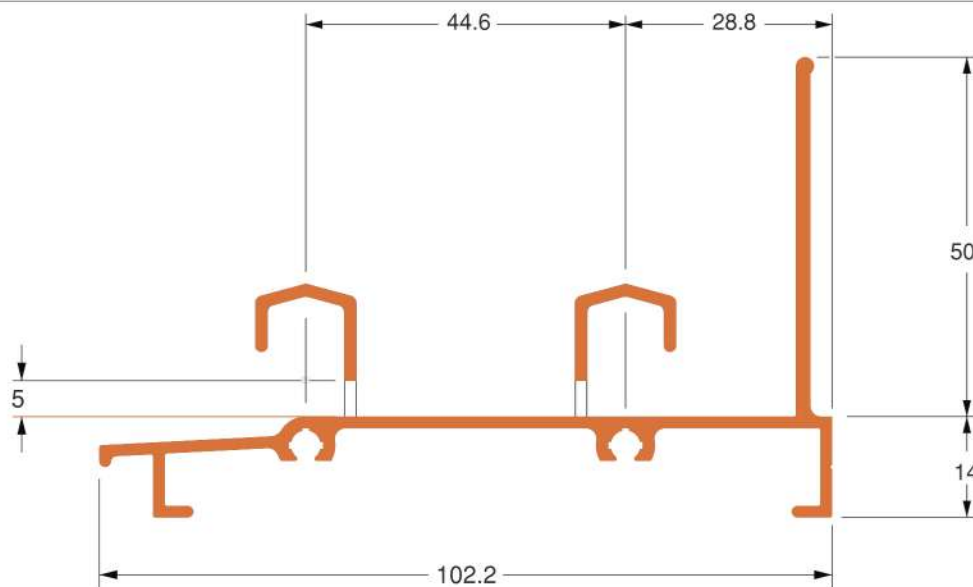


LG-021
1.733 kg/m

*FRESA

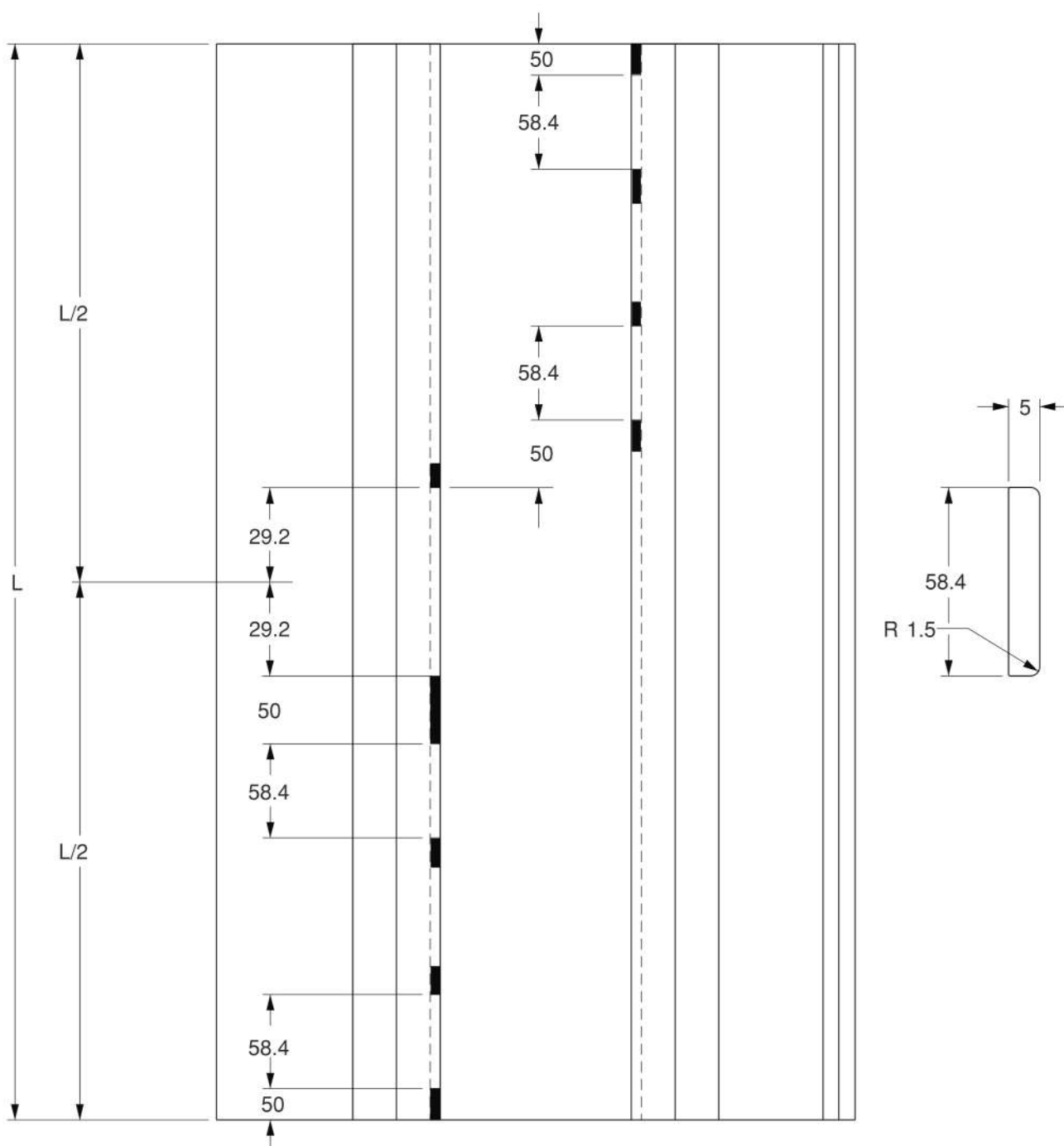
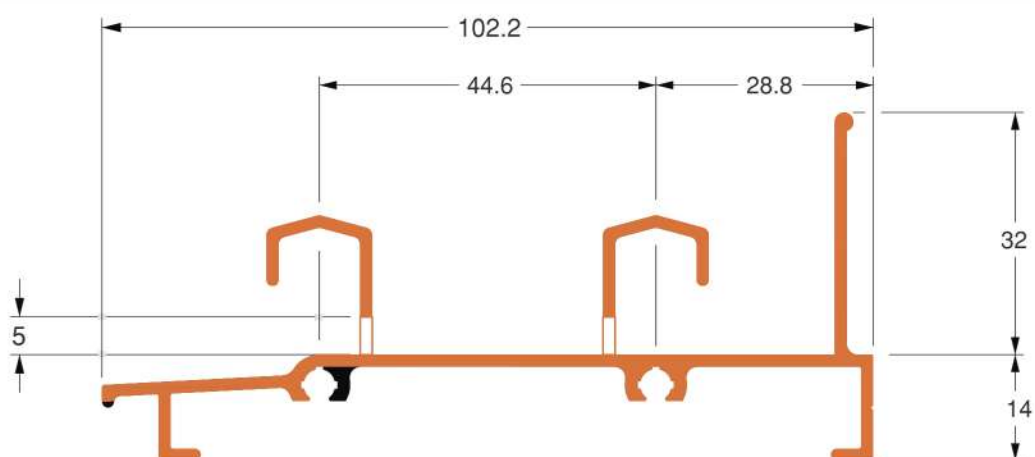
LG-024

1.264 kg/m



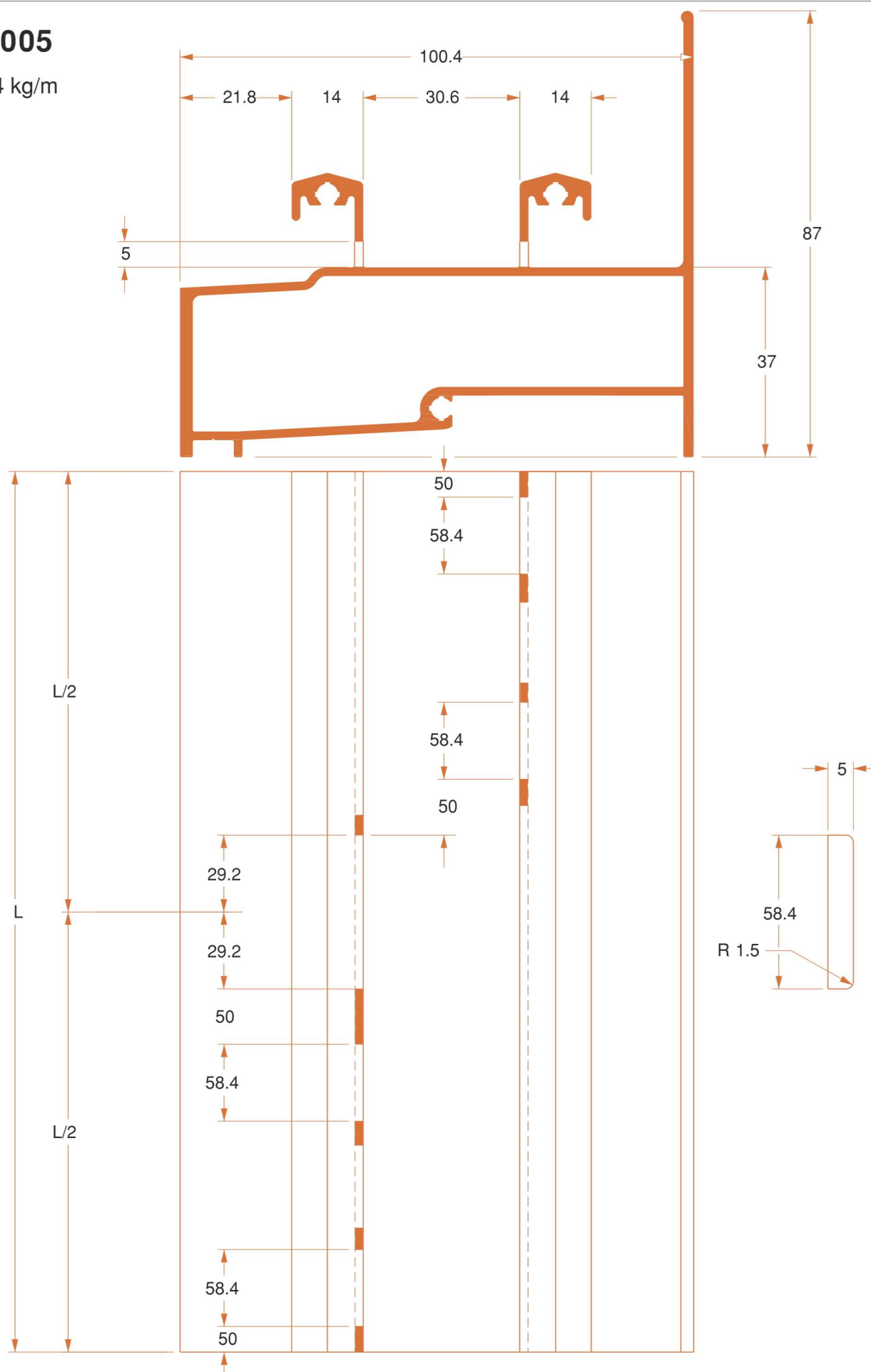
LG-047

1.133 kg/m



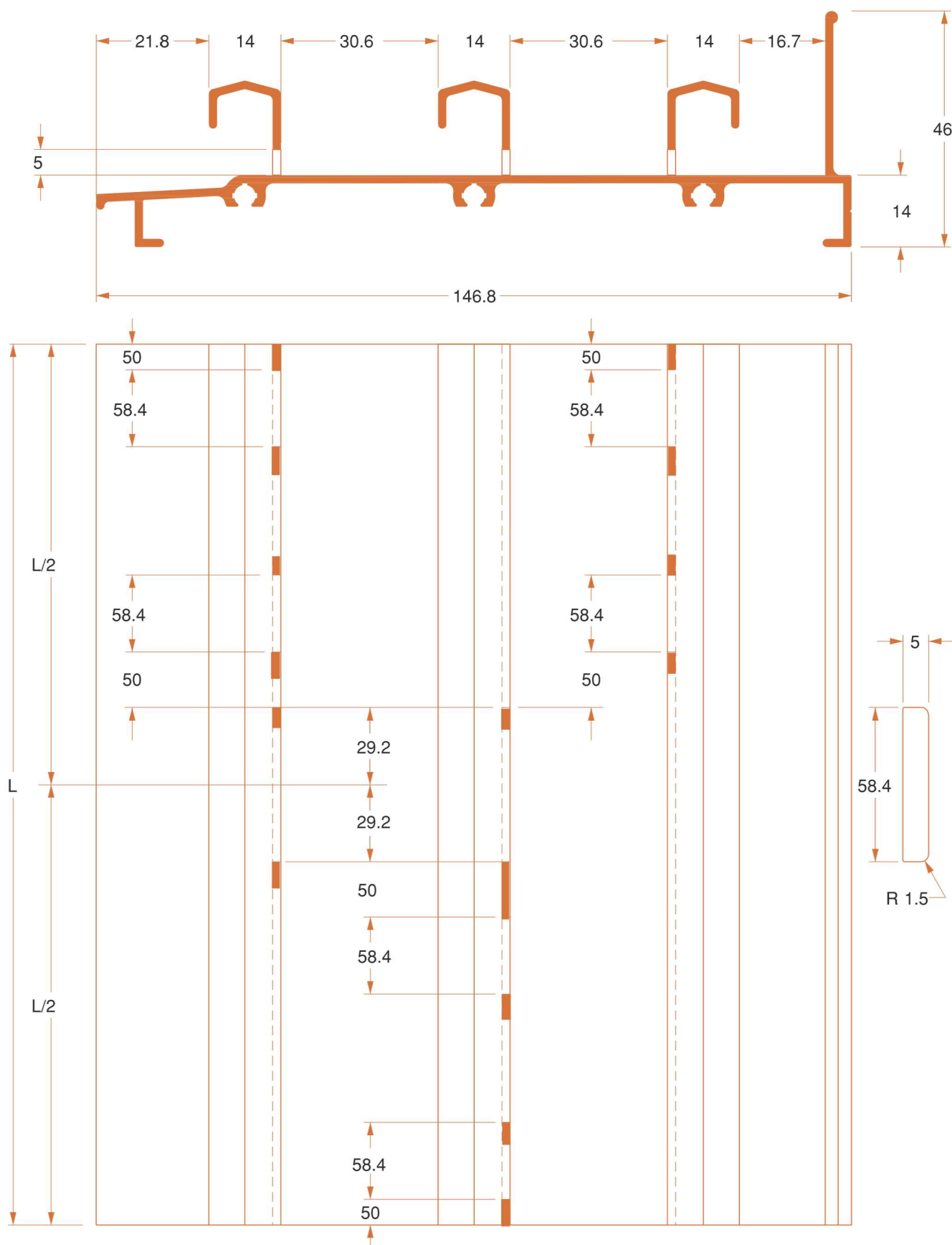
LG-005

2.104 kg/m



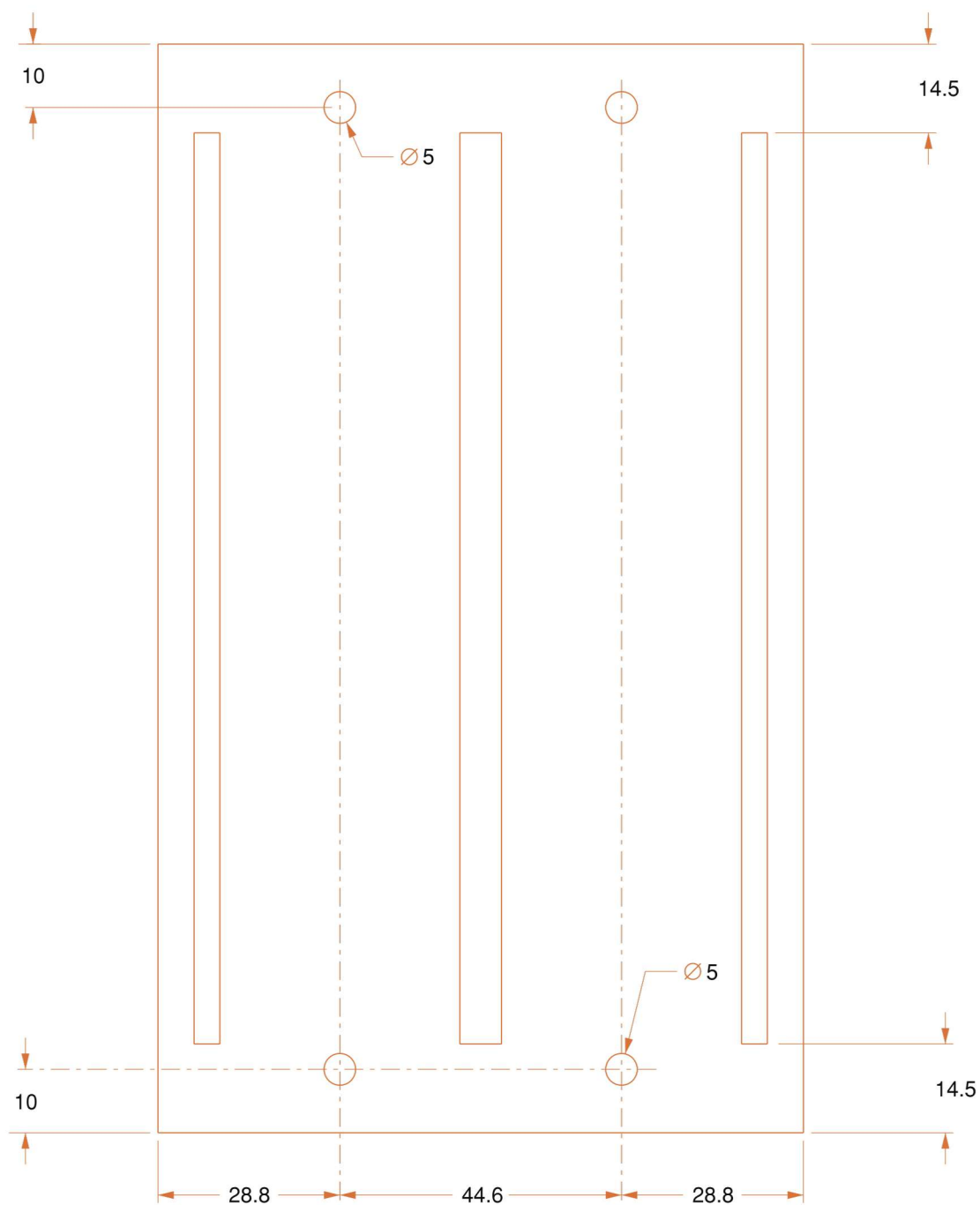
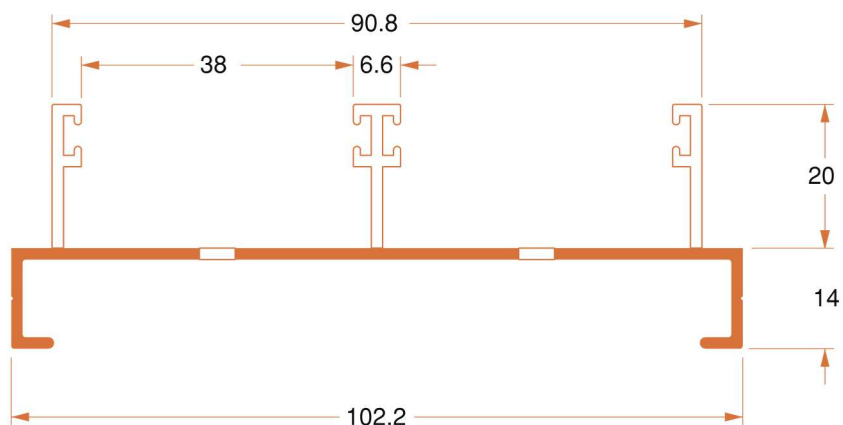
LG-066

1.539 kg/m



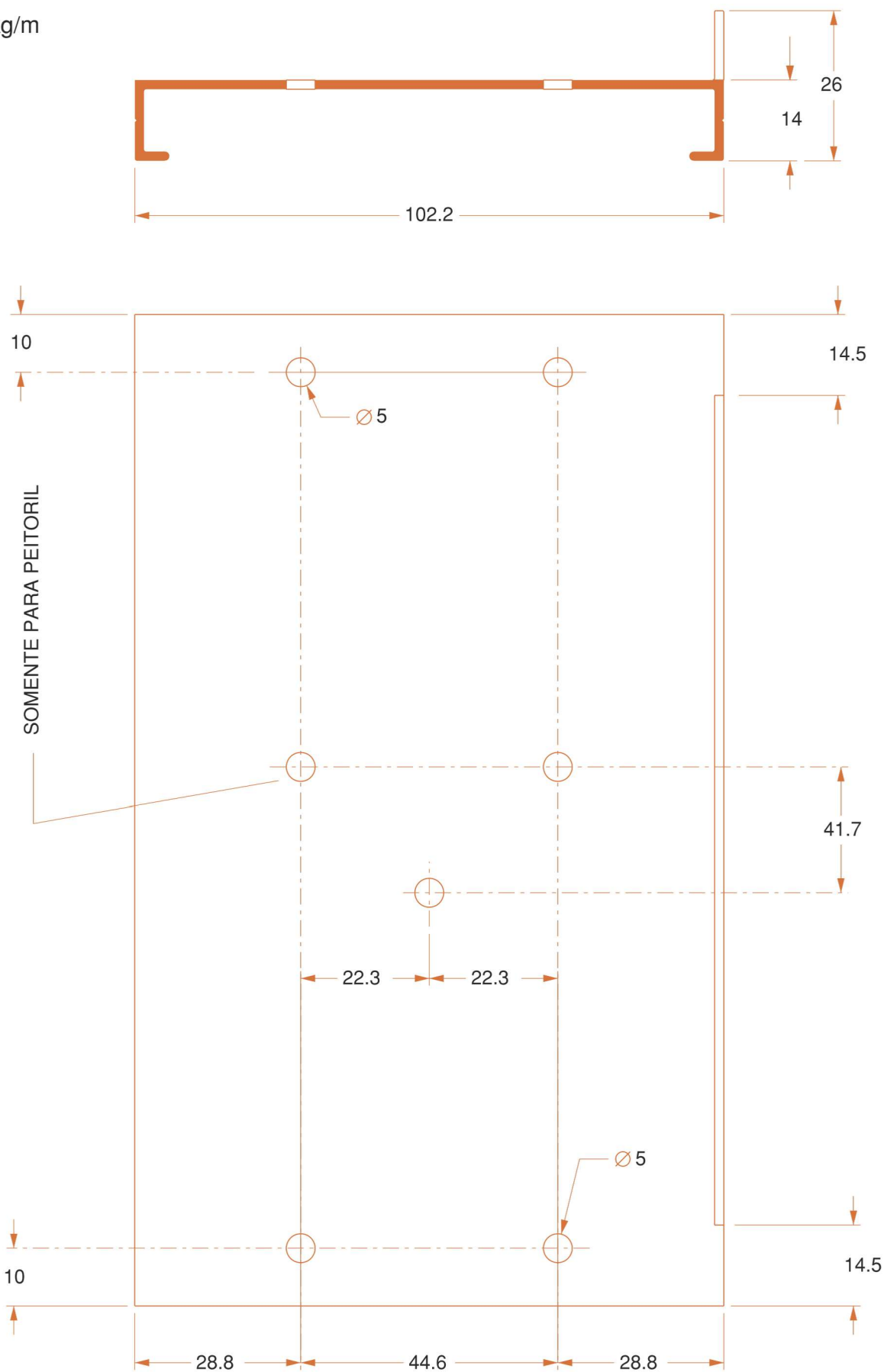
LG-045

0.957 kg/m



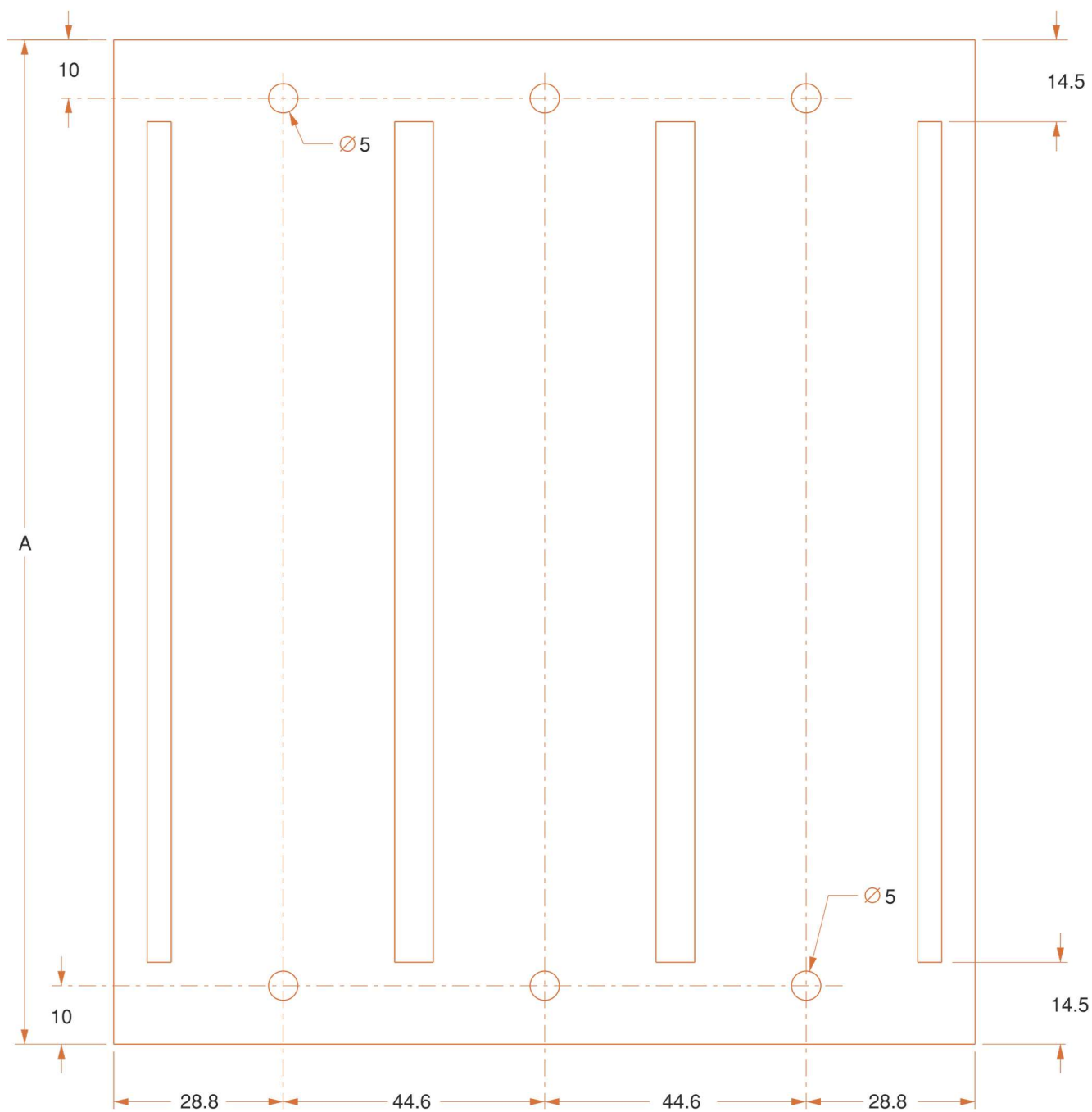
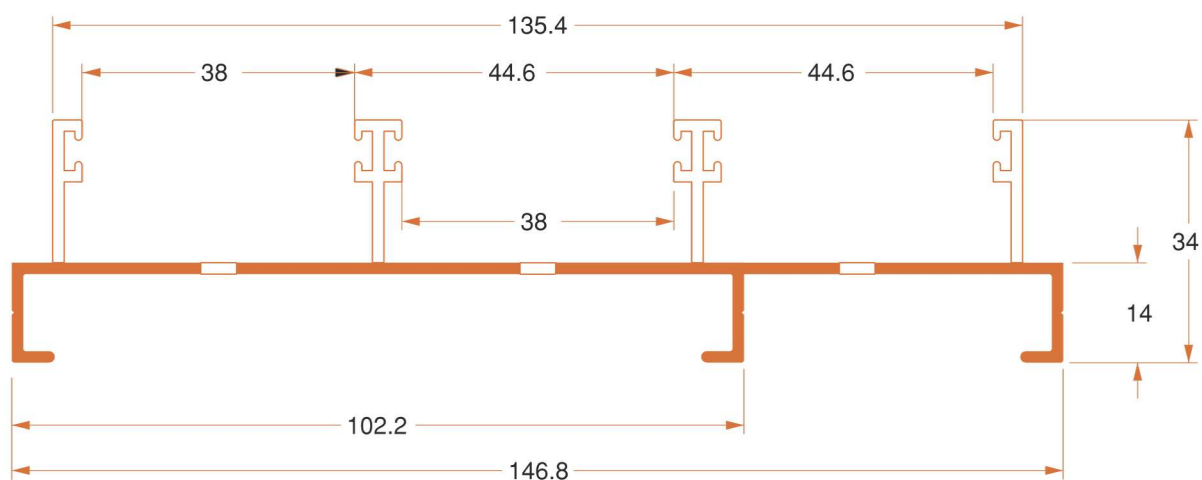
LG-002

0.639 kg/m

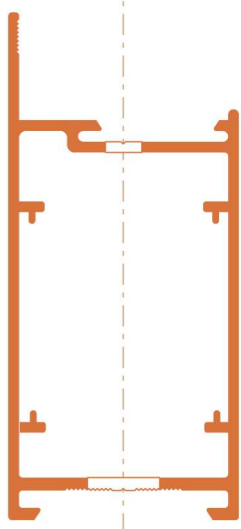
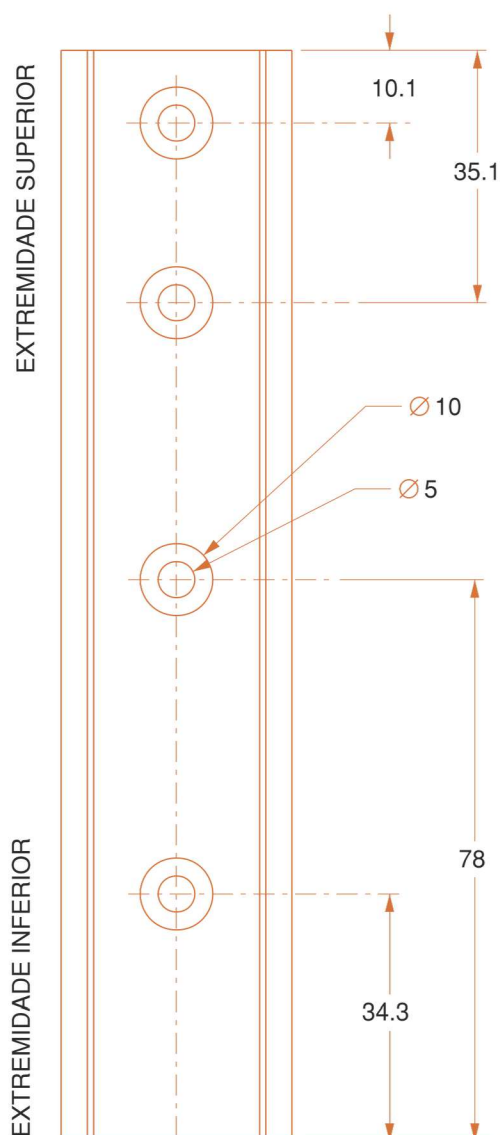


LG-064

1.358 kg/m

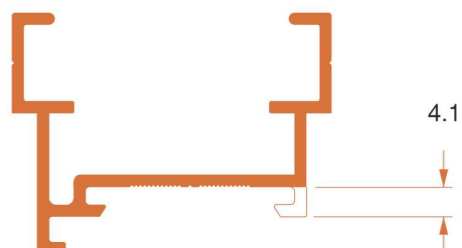
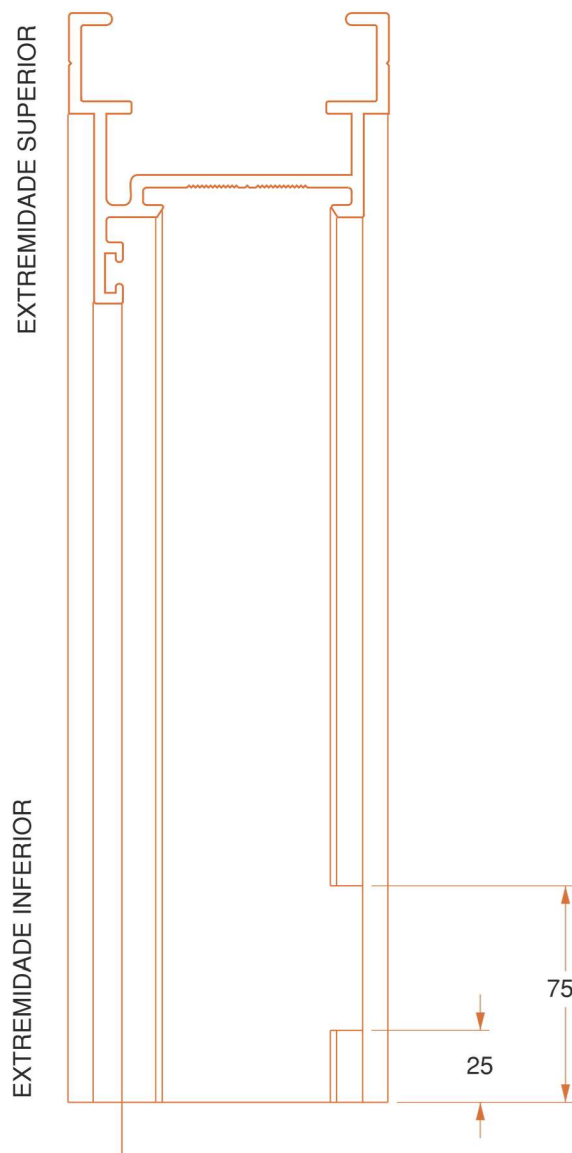


Peças conforme/contrário



LG-043

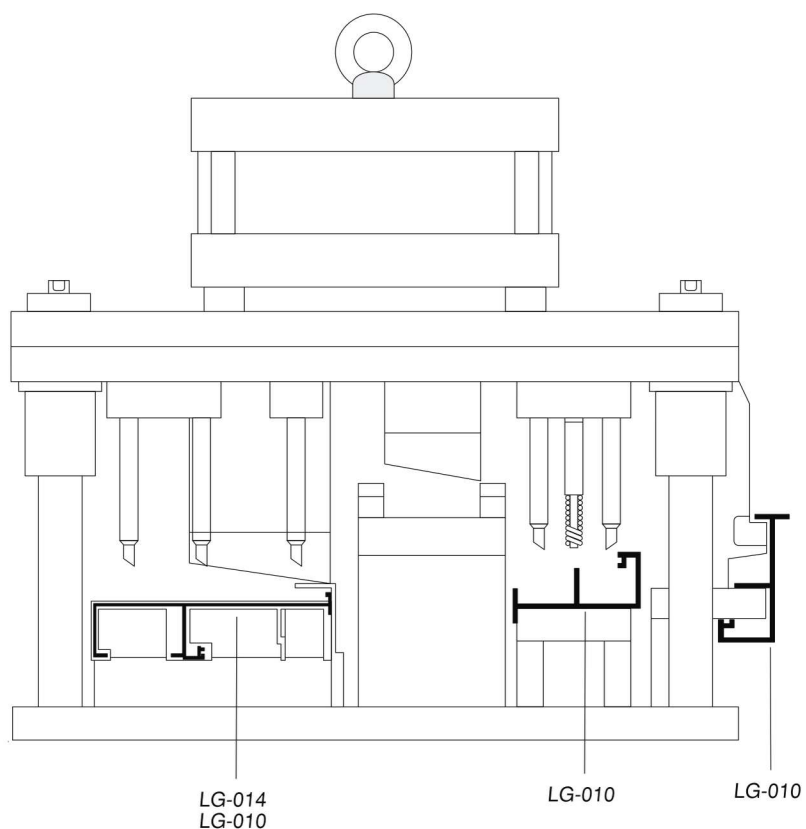
0.930 kg/m



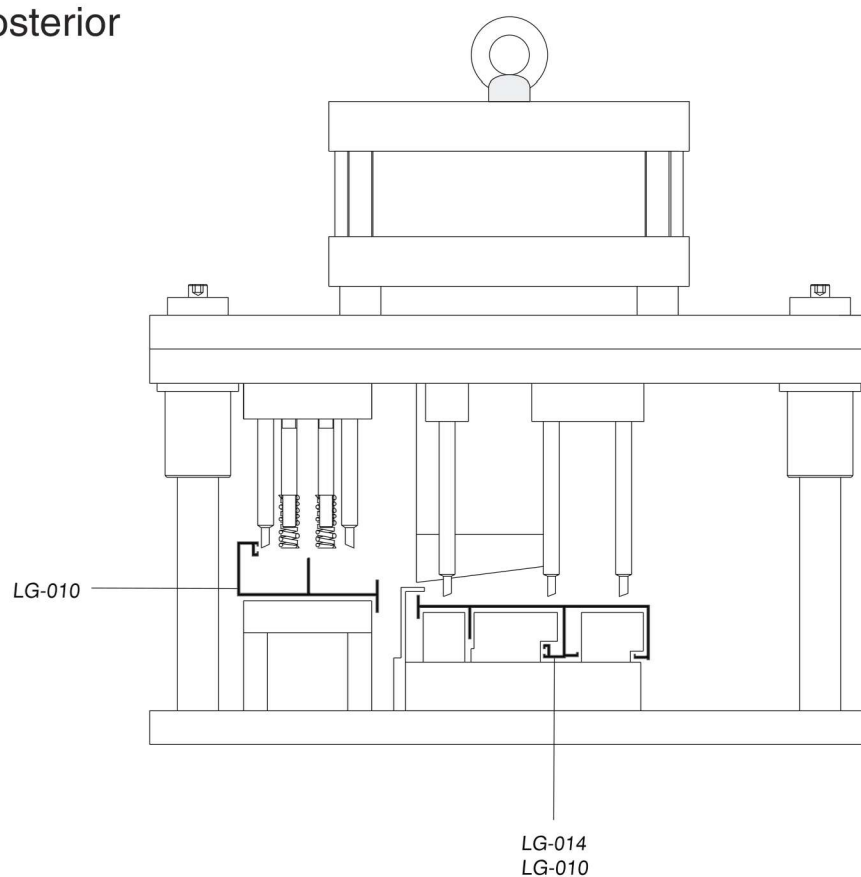
LG-056

0.664 kg/m

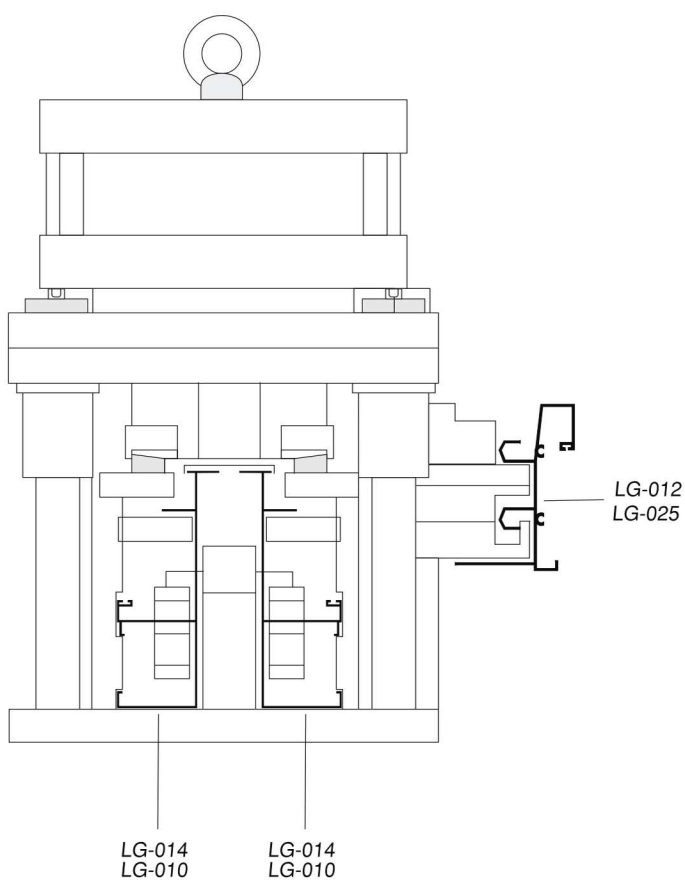
Vista Frontal



Vista Posterior

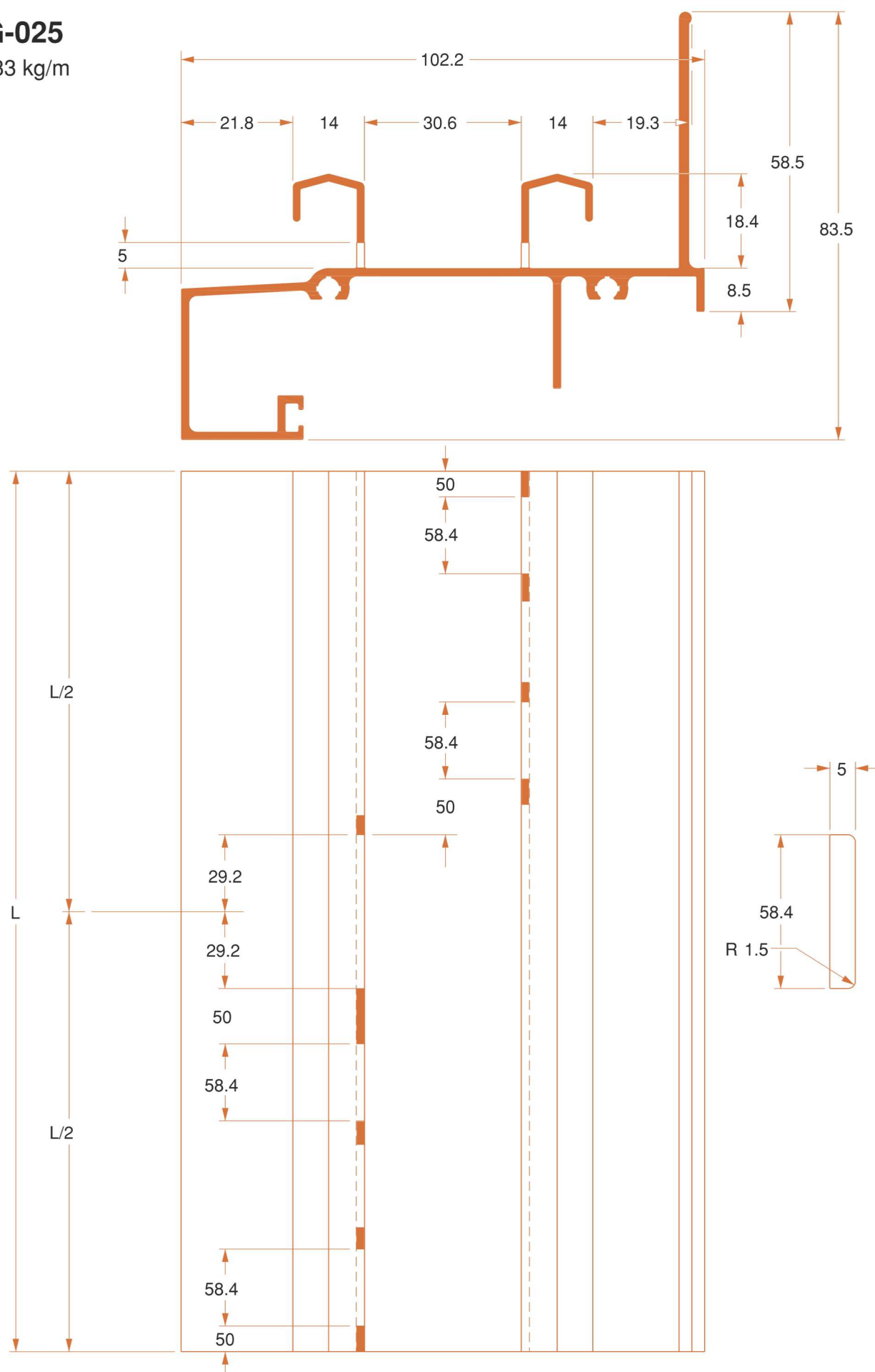


Vista Lateral Esquerda



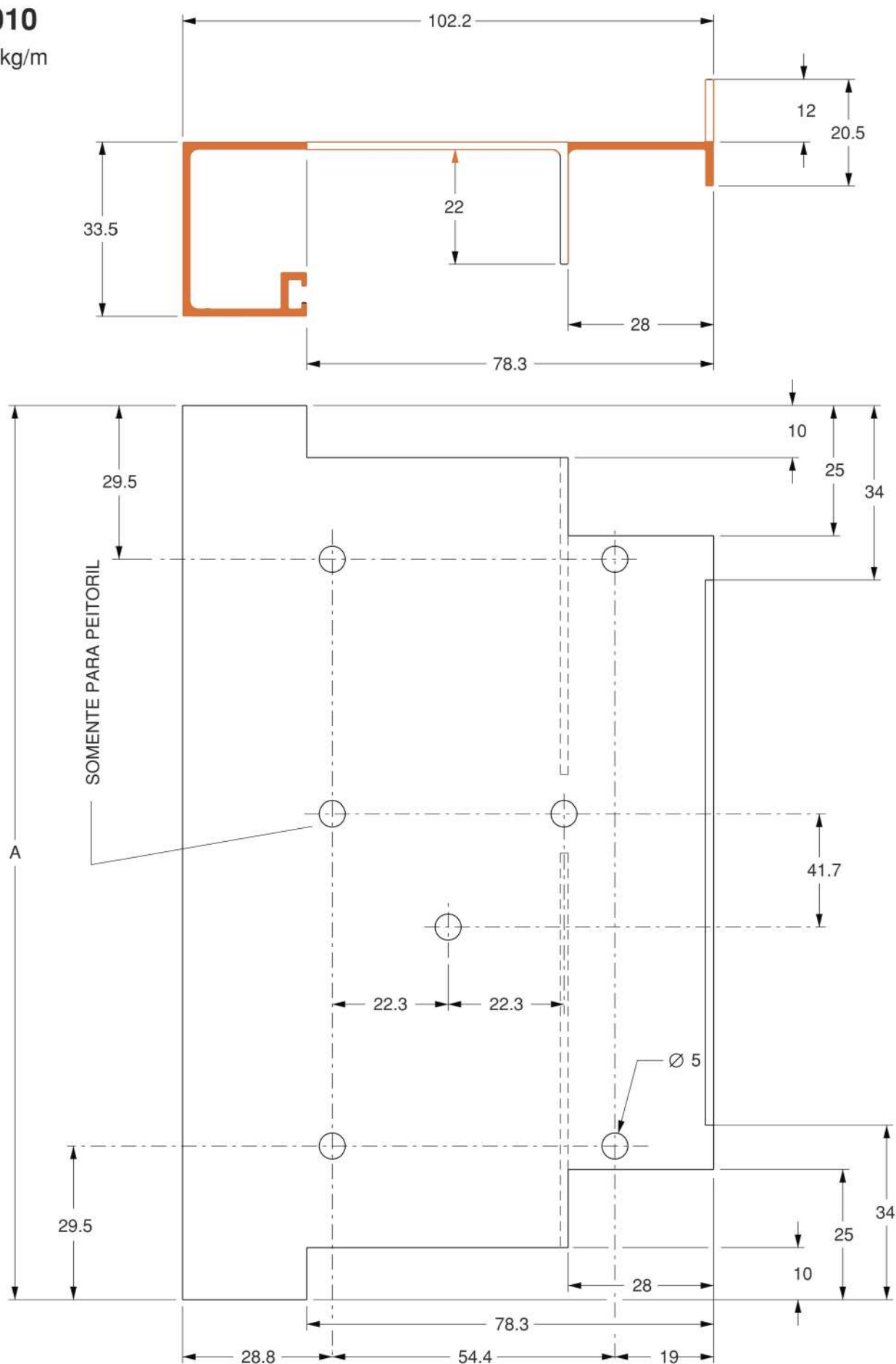
LG-025

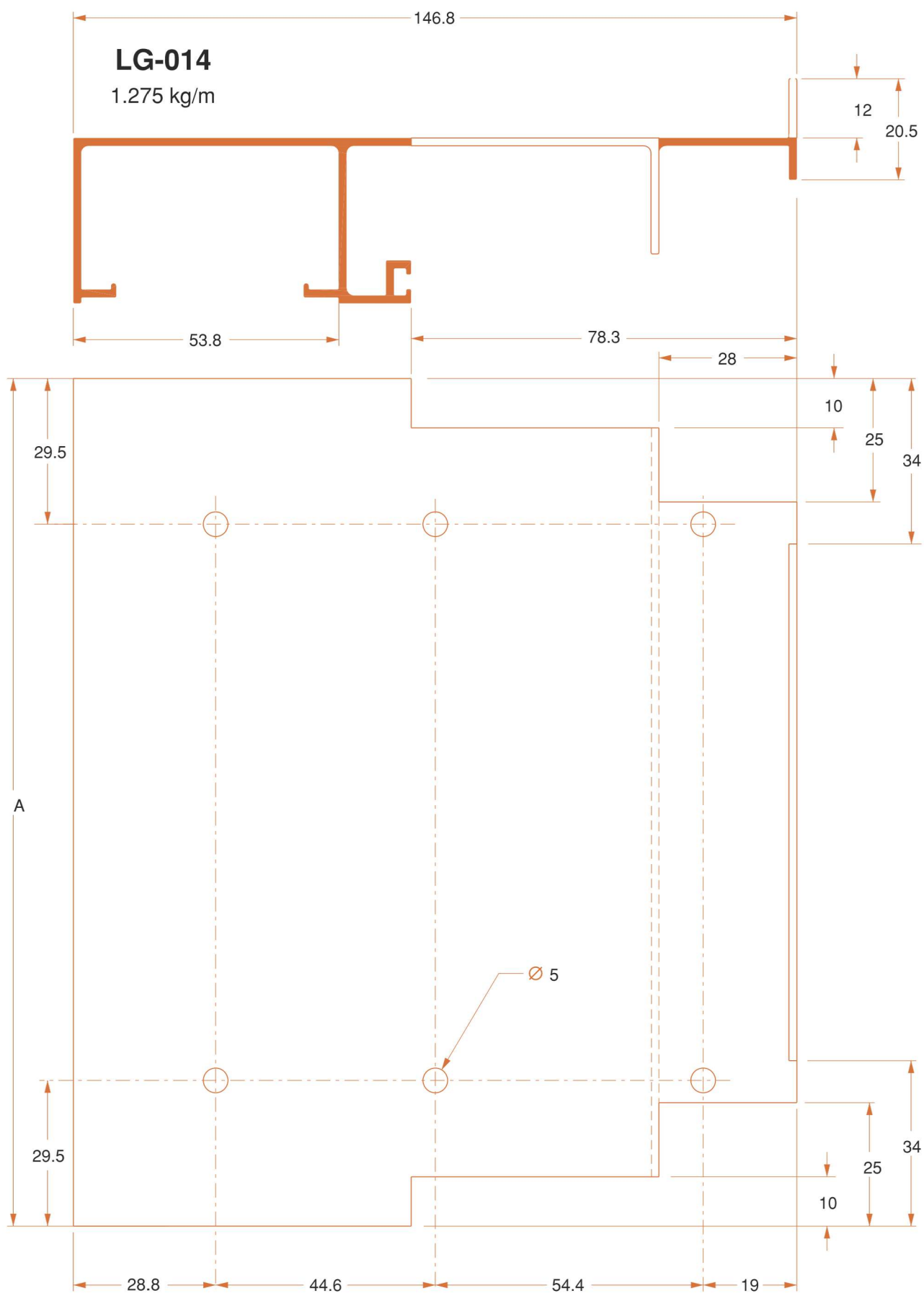
1.533 kg/m

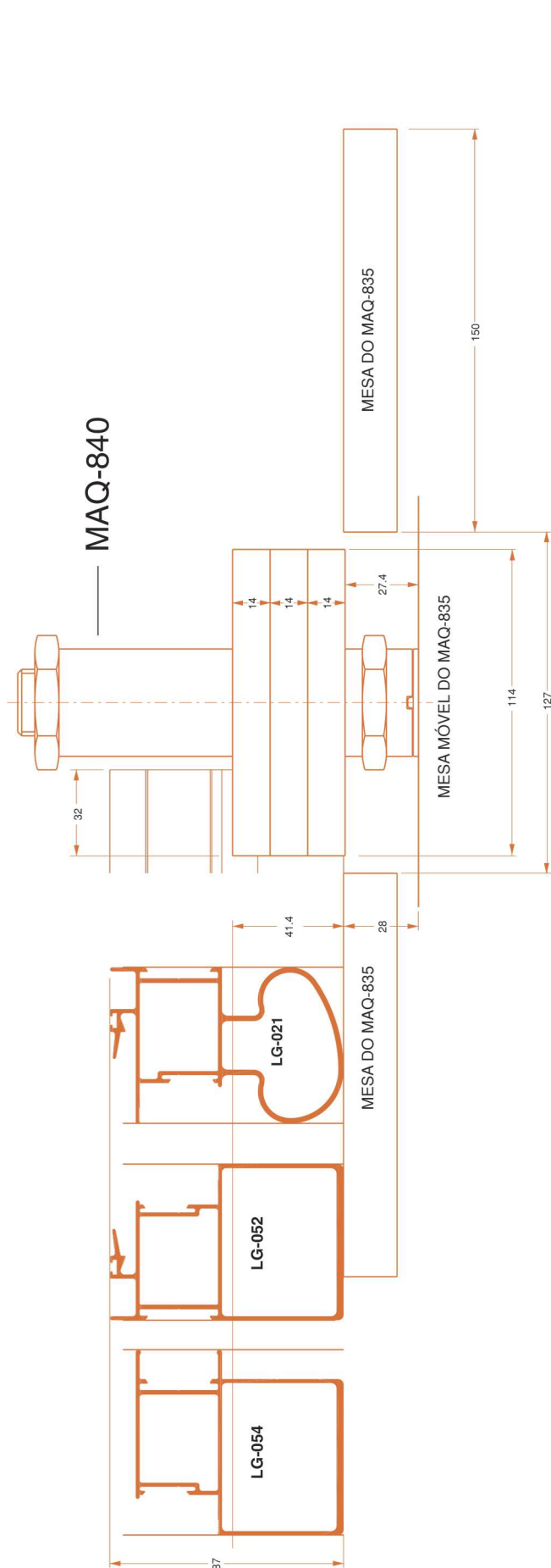


LG-010

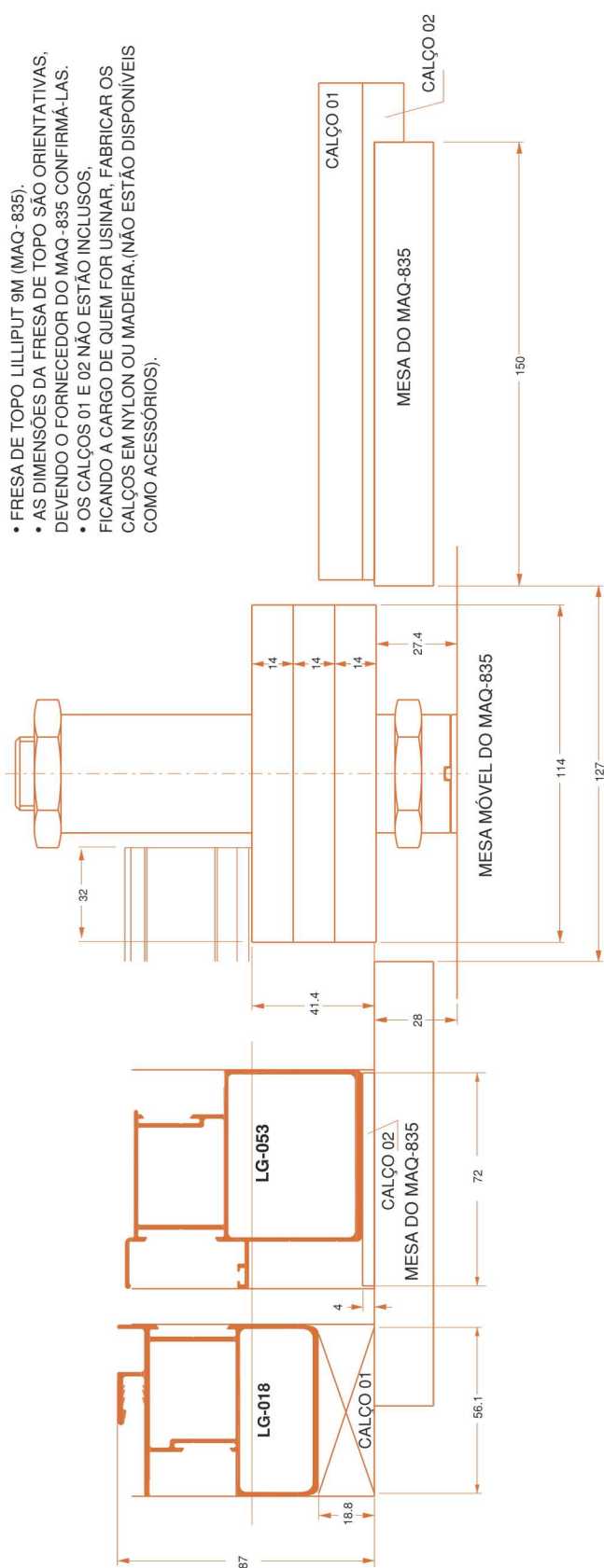
0.863 kg/m





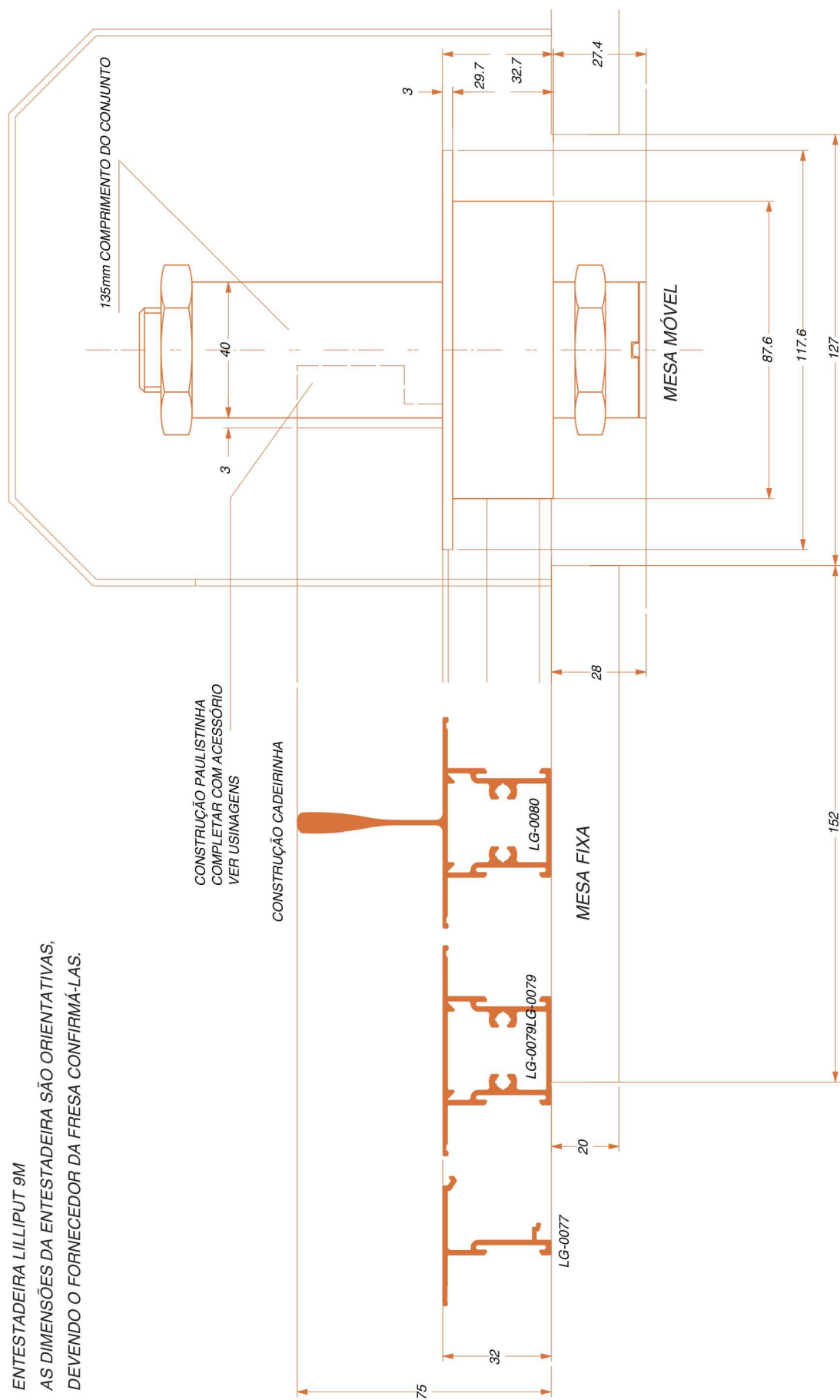


- FRESA DE TOPO LILLIPUT 9M (MAQ-835).
- AS DIMENSÕES DA FRESA DE TOPO SÃO ORIENTATIVAS, DEVENDO O FORNECEDOR DO MAQ-835 CONFIRMÁ-LAS.
- OS CALÇOS 01 E 02 NÃO ESTÃO INCLUSOS, FICANDO A CARGO DE QUEM FOR USINAR, FABRICAR OS CALÇOS EM NYLON OU MADEIRA. (NÃO ESTÃO DISPONÍVEIS COMO ACESSÓRIOS).



ENTESTADEIRA LILLIPUT 9M

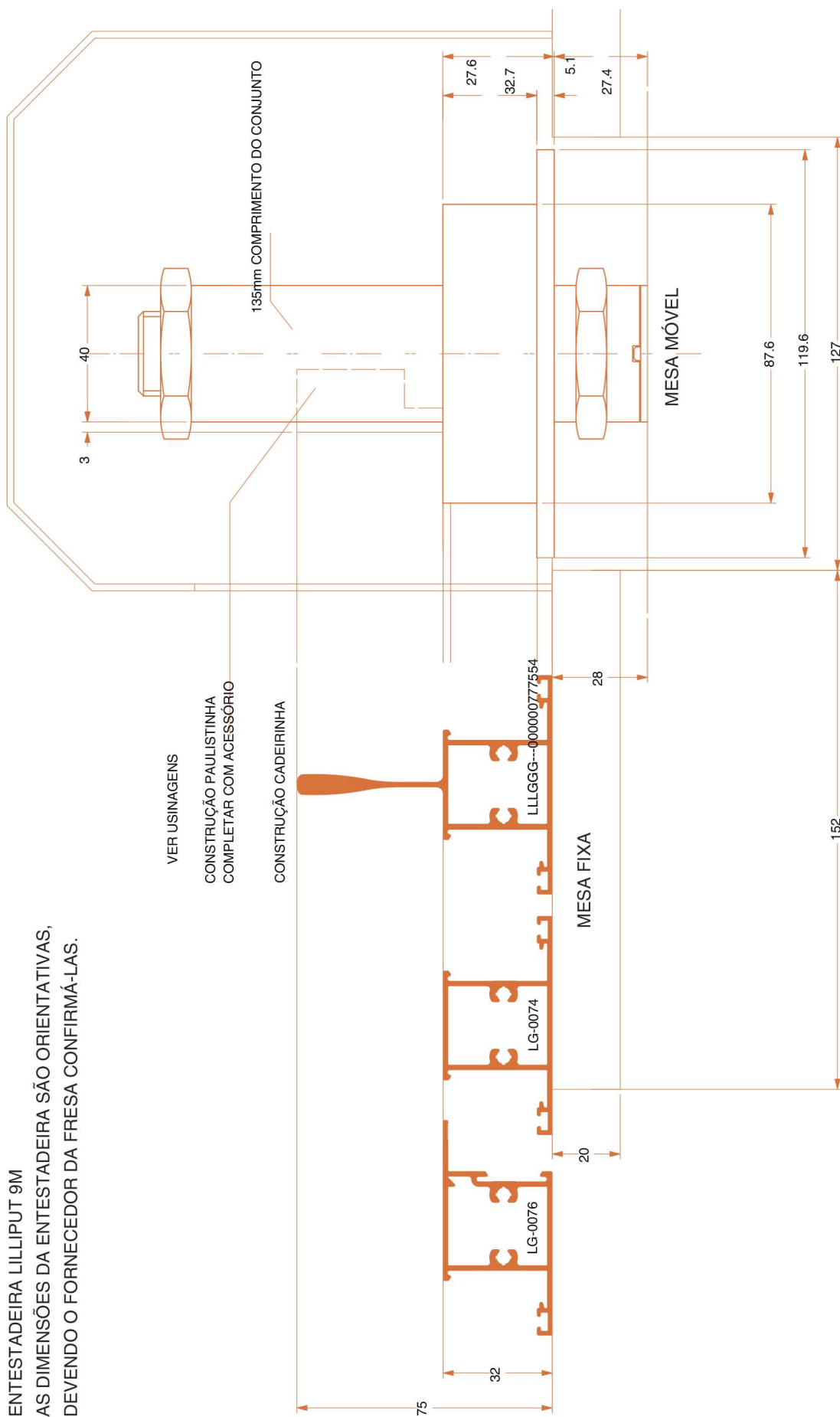
AS DIMENSÕES DA ENTESTADEIRA SÃO ORIENTATIVAS,
DEVENDO O FORNECEDOR DA FRESA CONFIRMÁ-LAS.



FRESAS E CALÇOS PARA LG-0077/79/80

ENTESTADEIRA LILLIPUT 9M

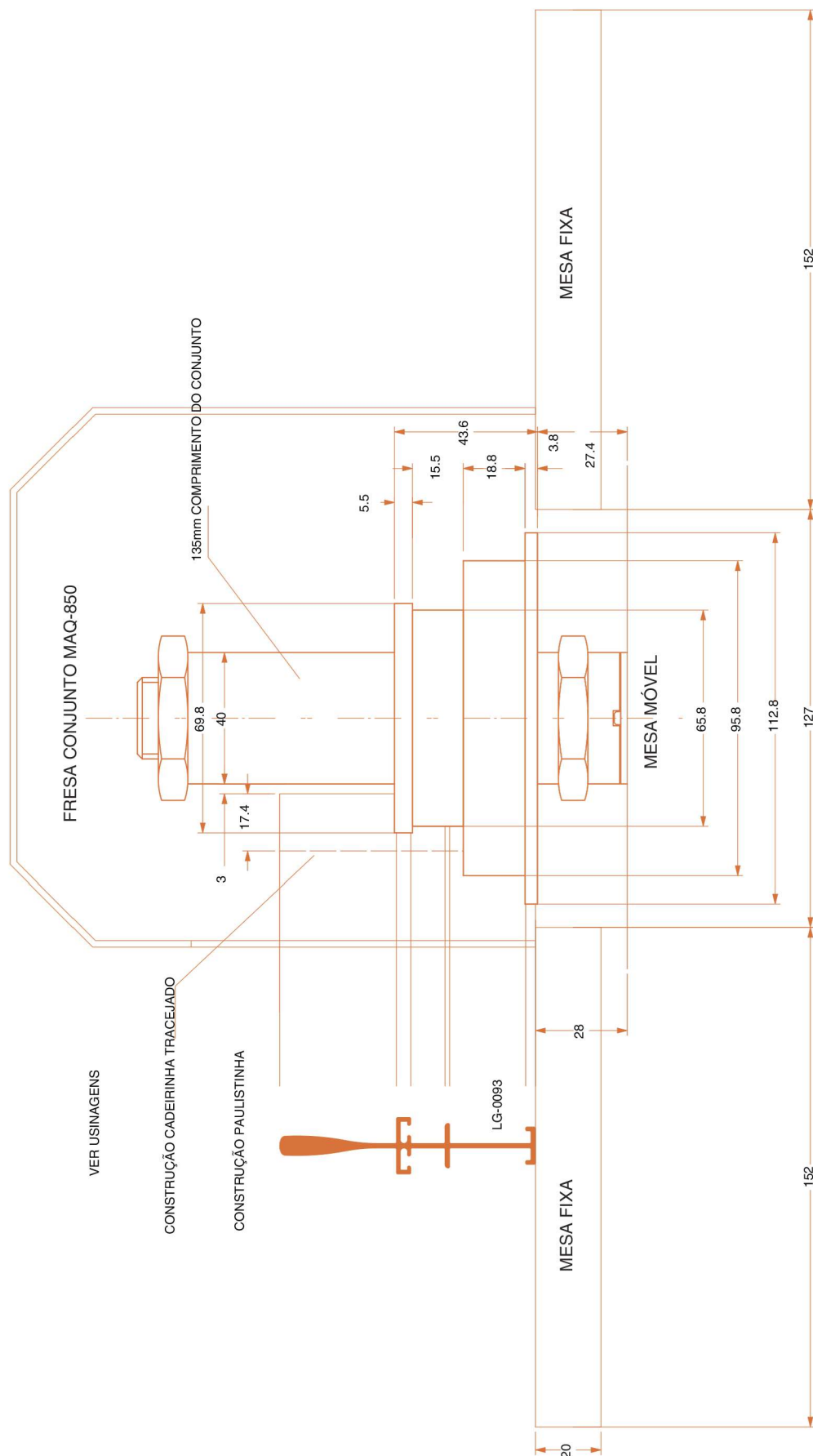
AS DIMENSÕES DA ENTESTADEIRA SÃO ORIENTATIVAS,
DEVENDO O FORNECEDOR DA FRESA CONFIRMÁ-LAS.



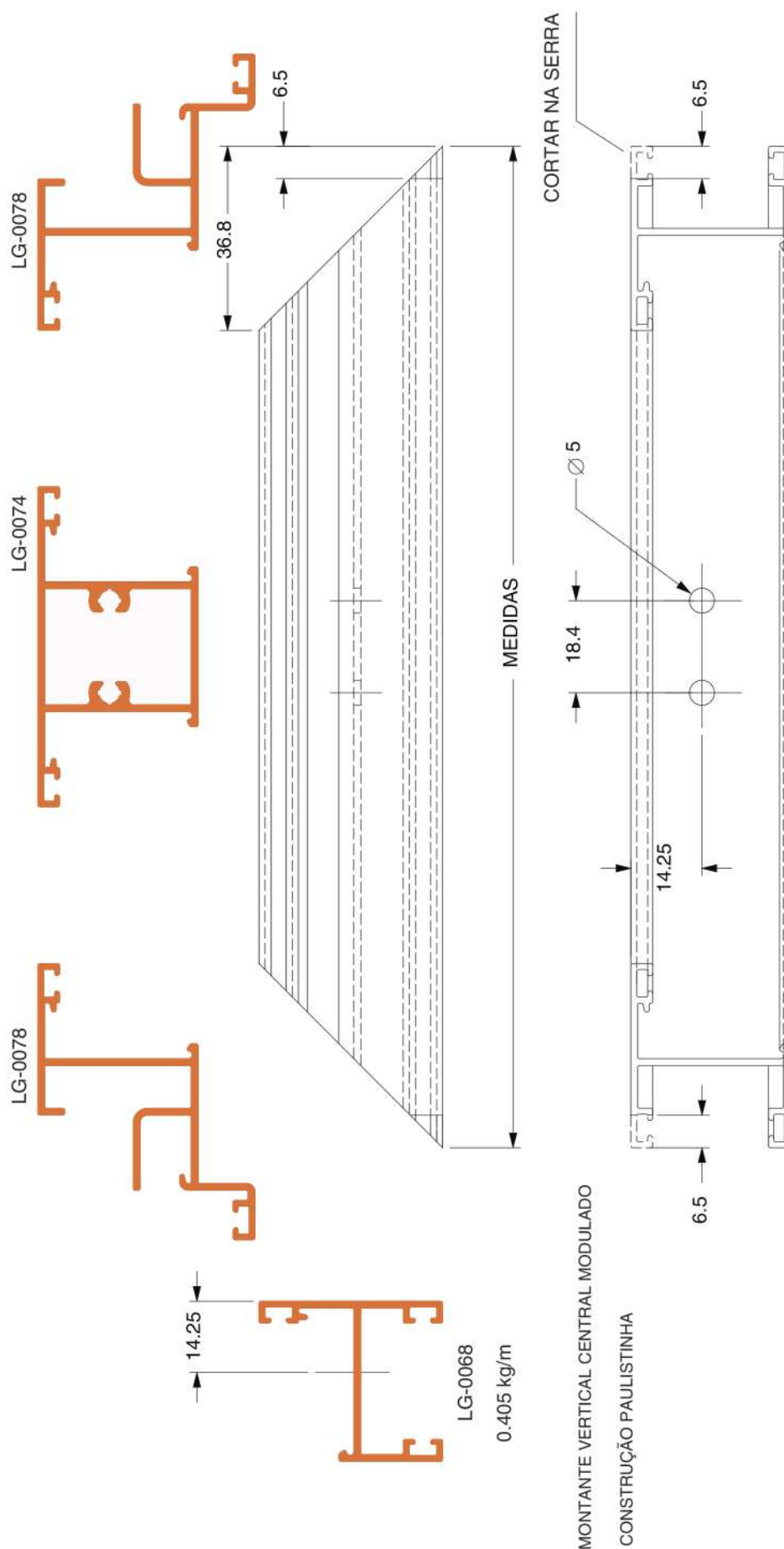
FRESAS E CALÇOS PARA LG-0074/75/76

ENTESTADEIRA LILLIPUT 9M

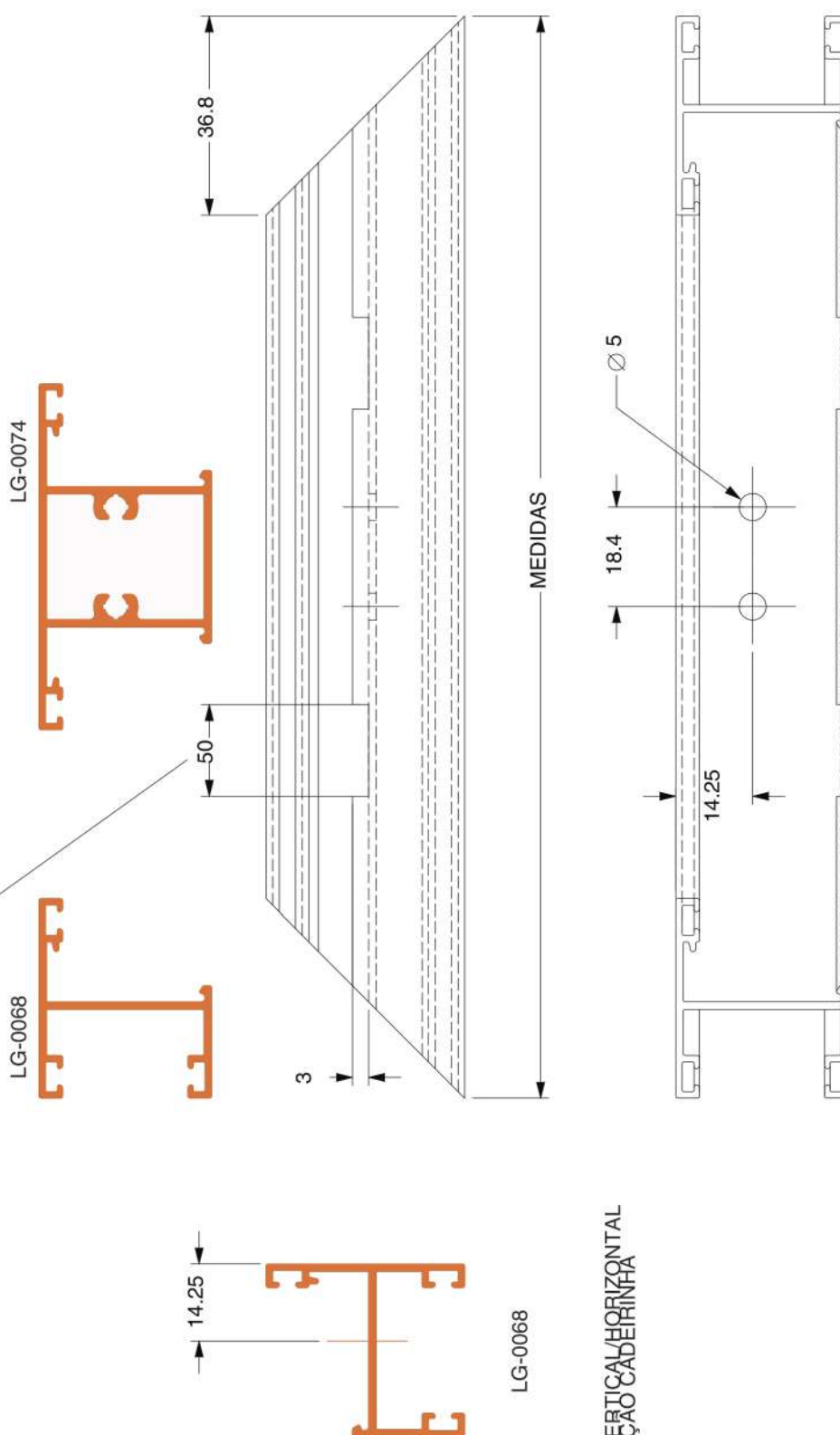
AS DIMENSÕES DA ENTESTADEIRA SÃO ORIENTATIVAS,
DEVENDO O FORNECEDOR DA FRESA CONFIRMÁ-LAS.



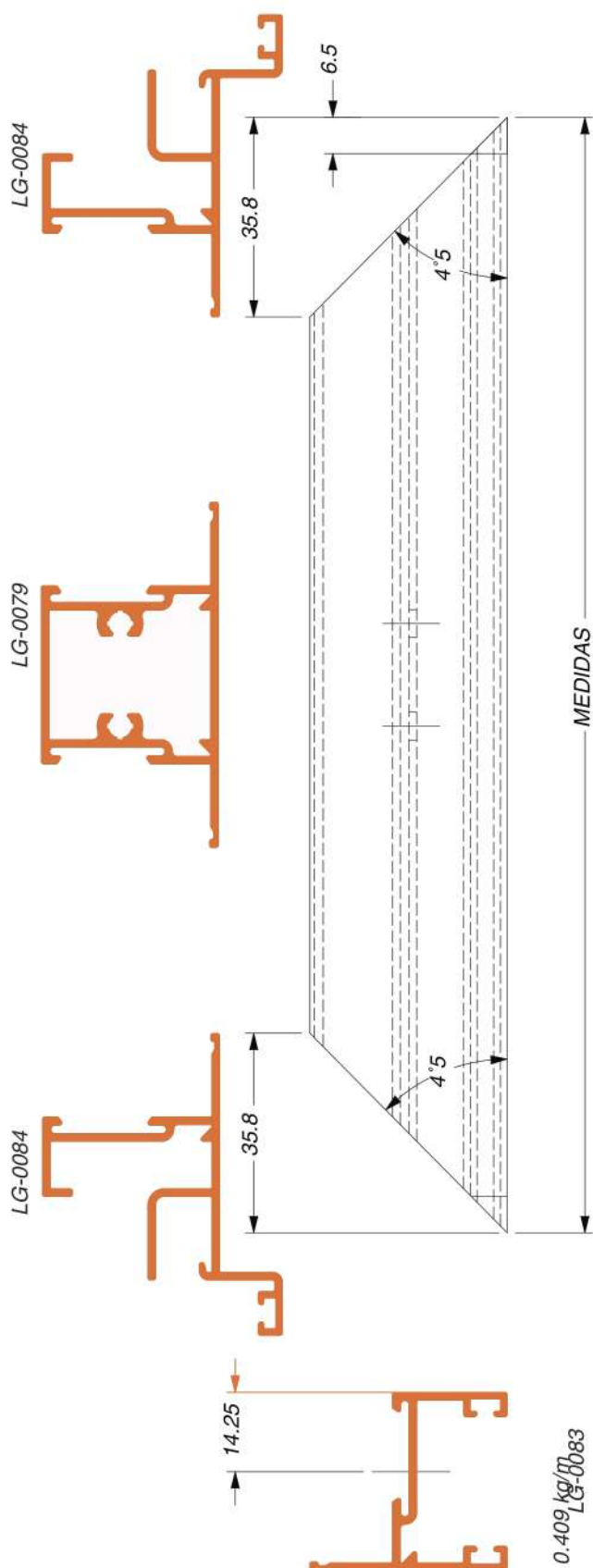
FRESAS E CALÇOS PARA LG-0093



USAR EST-581 NA MESMA USINAGEM DO LG-0056 (SI-0319)
RASGOS DE 50 x 3 mm SOMENTE NO MARCO INFERIOR

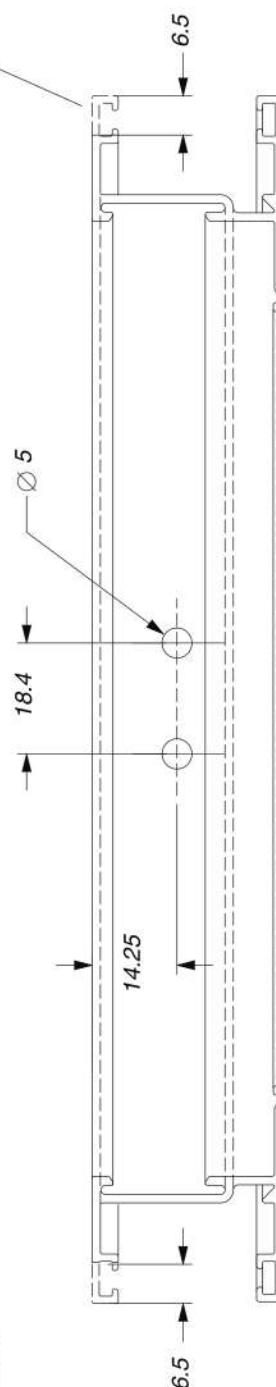


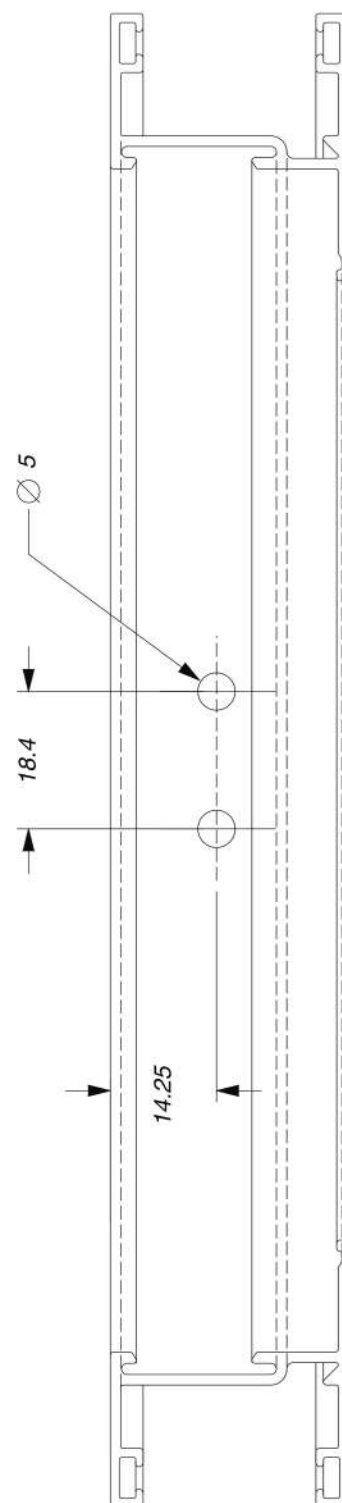
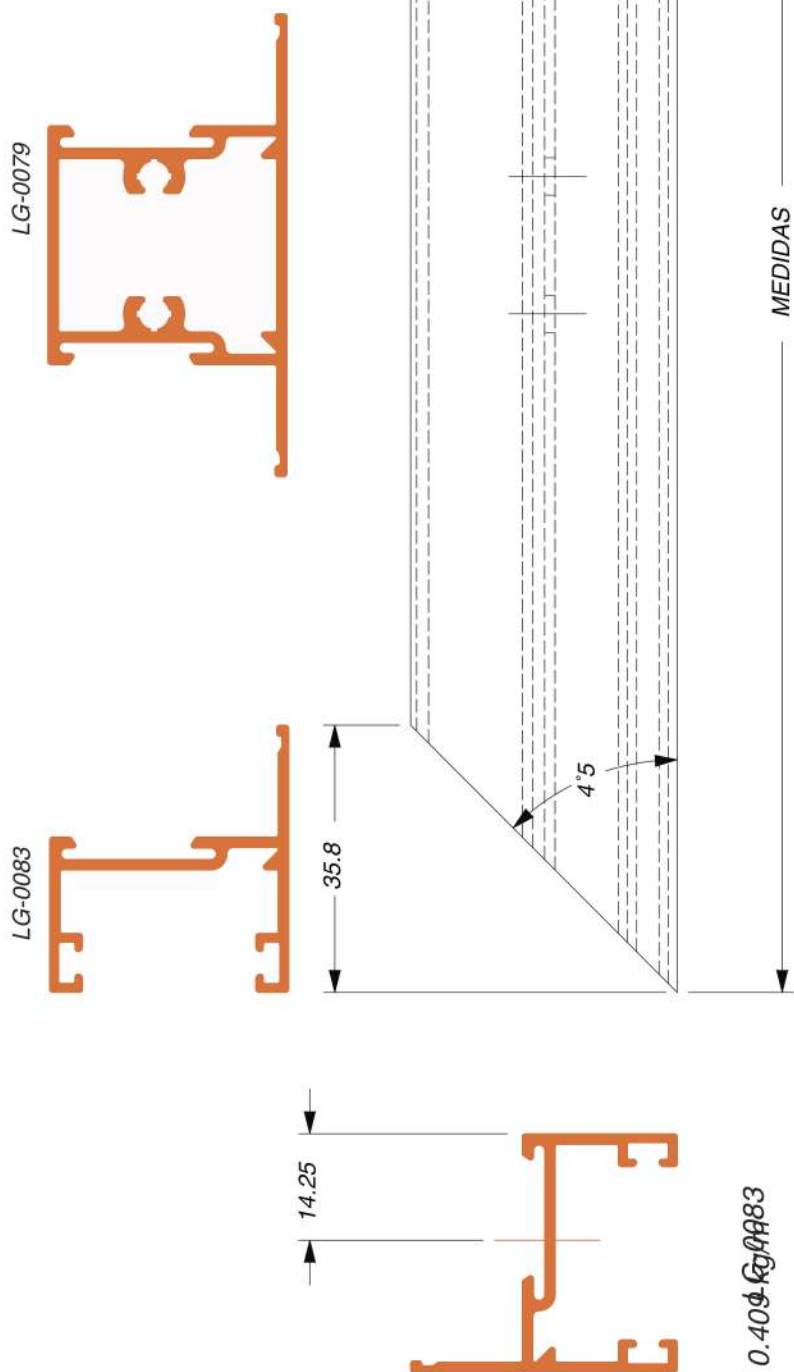
0.405 kg/m
MARCO VERTICAL/HORIZONTAL
CONSTRUÇÃO CADEIRINHA



CORTAR NA SERRA

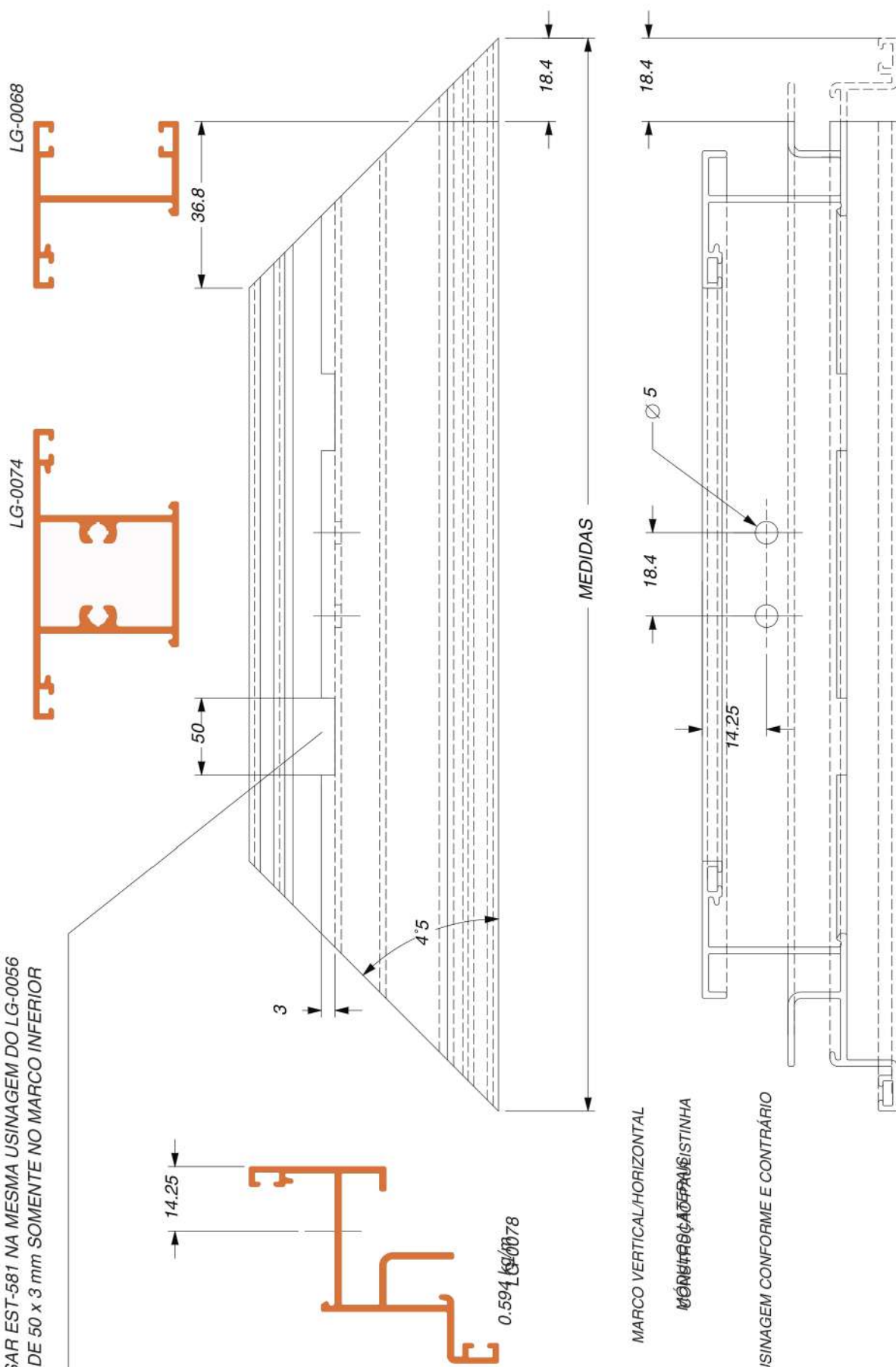
MONTANTE VERTICAL CENTRAL MODULADO
CONSTRUÇÃO PAULISTINHA

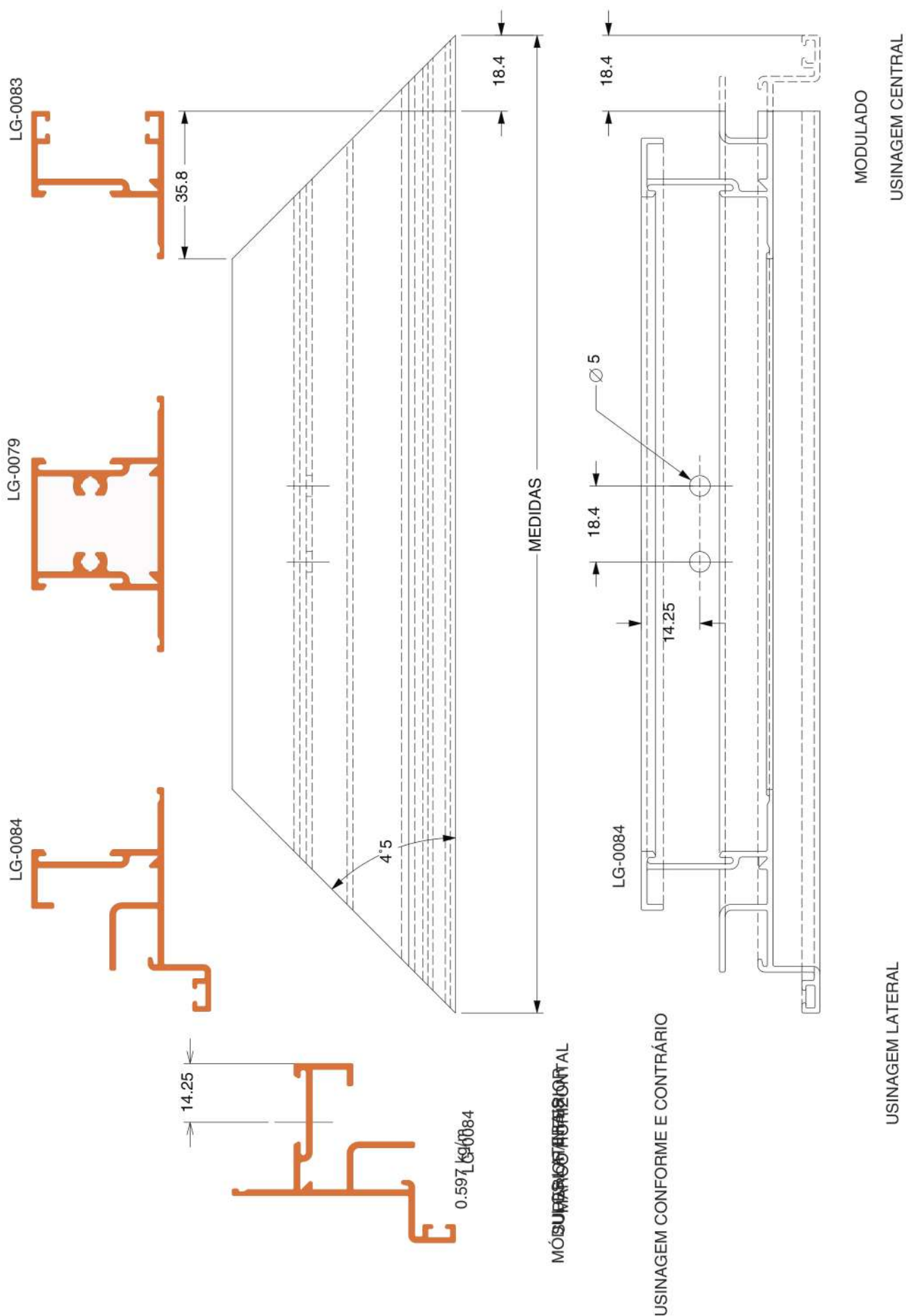


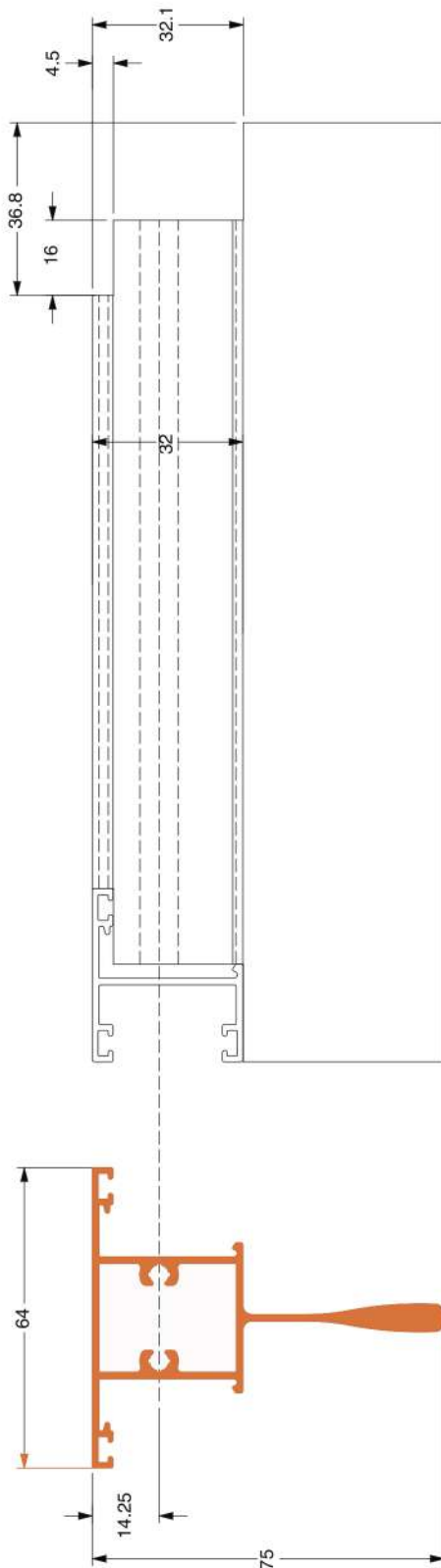


MARCO HORIZONTAL/VERTICAL
CONSTRUÇÃO CADEIRINHA

USAR EST-581 NA MESMA USINAGEM DO LG-0056
RASGOS DE 50 x 3 mm SOMENTE NO MARCO INFERIOR



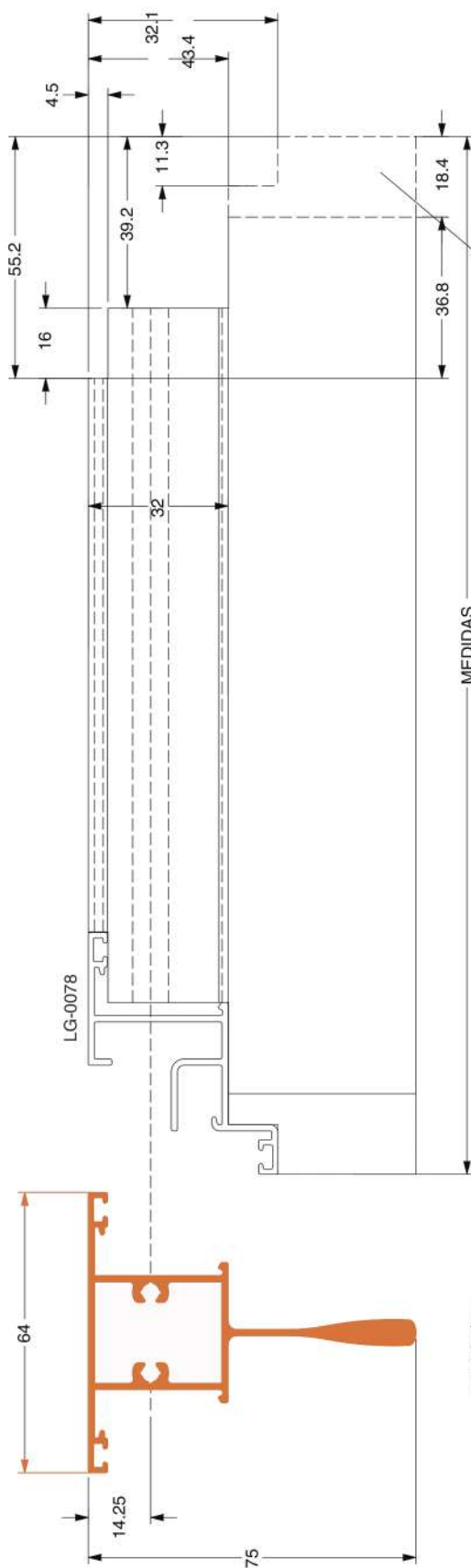




VER MAQ-849 pag. 131

1.153.89/0075

CONSTRUÇÃO CADEIRINHA



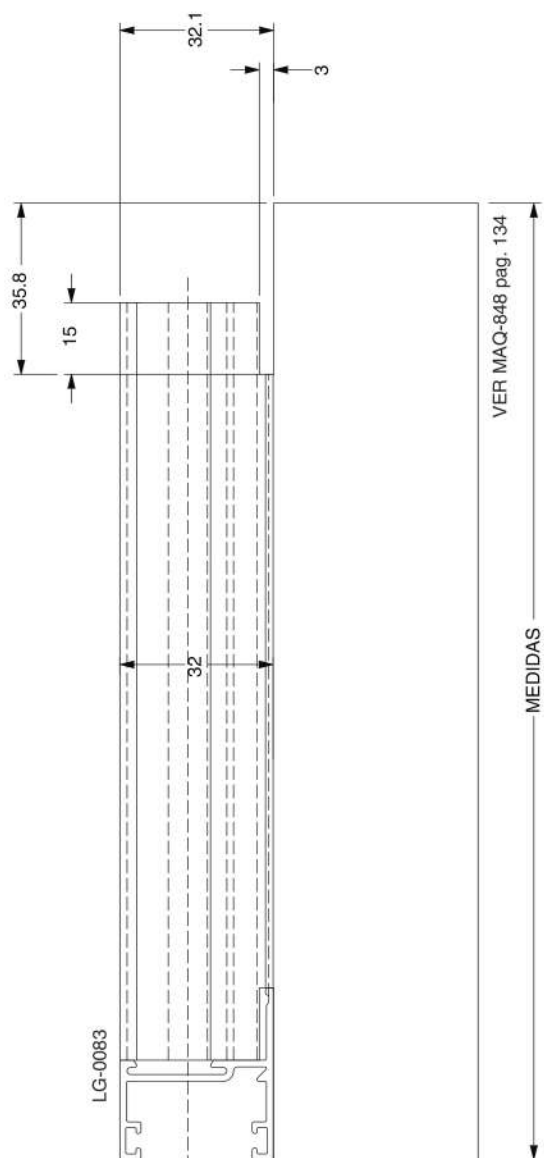
MEDIDAS

1.153.89/0075

CONSTRUÇÃO PAULISTINHA

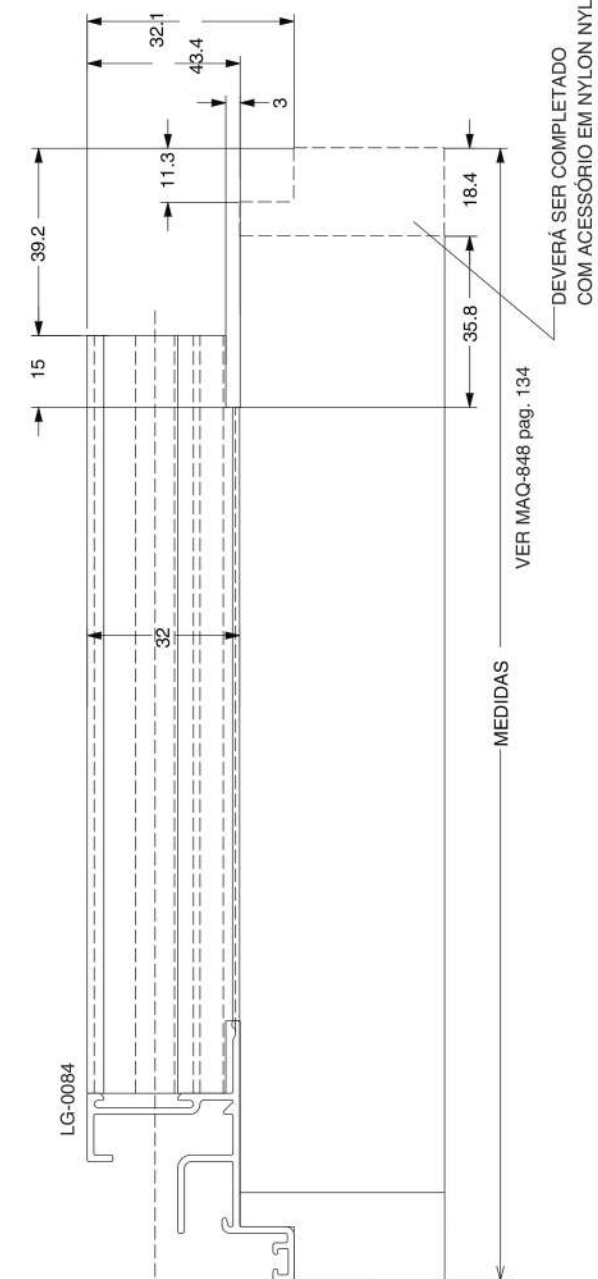
VER MAQ-849 pag. 135

DEVERÁ SER COMPLETADO
COM ACESSÓRIO EM NYLON NYL-449



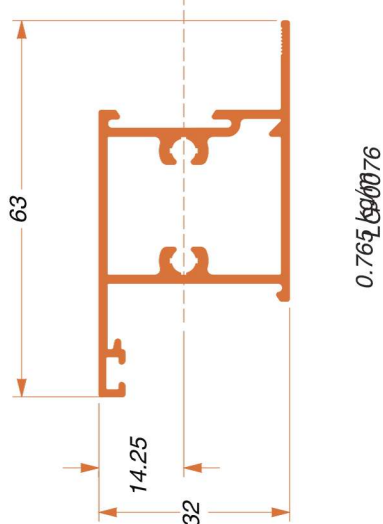
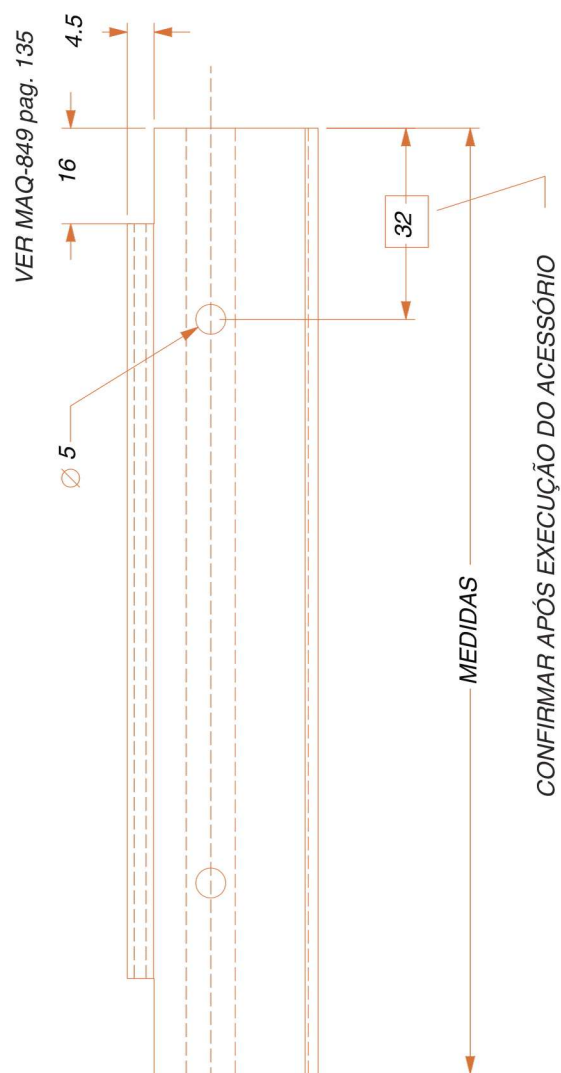
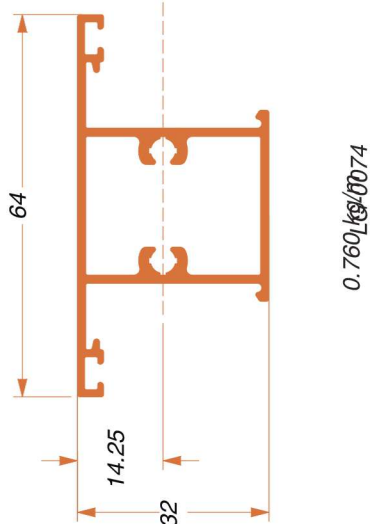
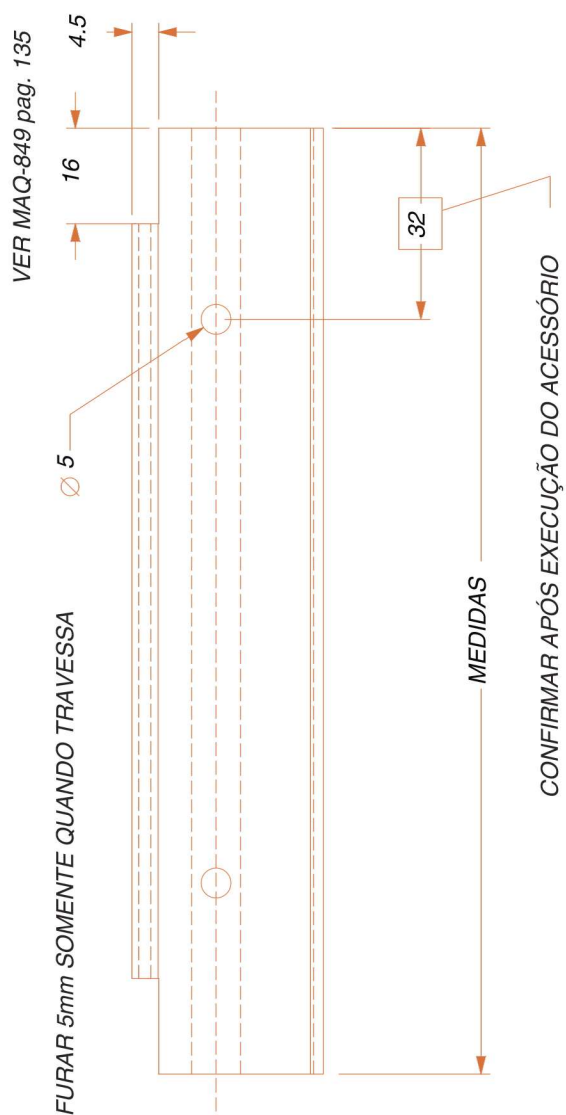
1.160 60080

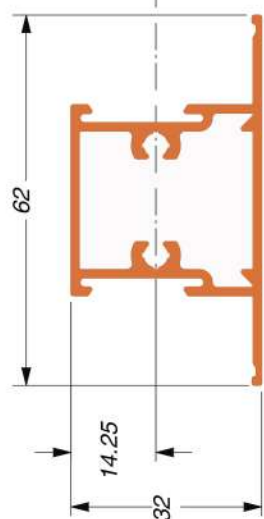
CONSTRUÇÃO CADEIRINHA



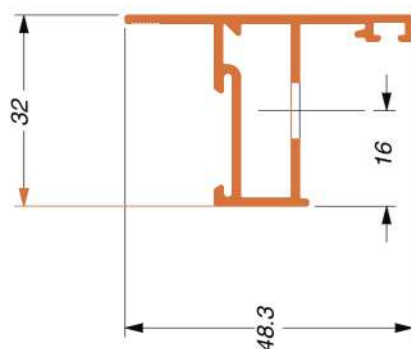
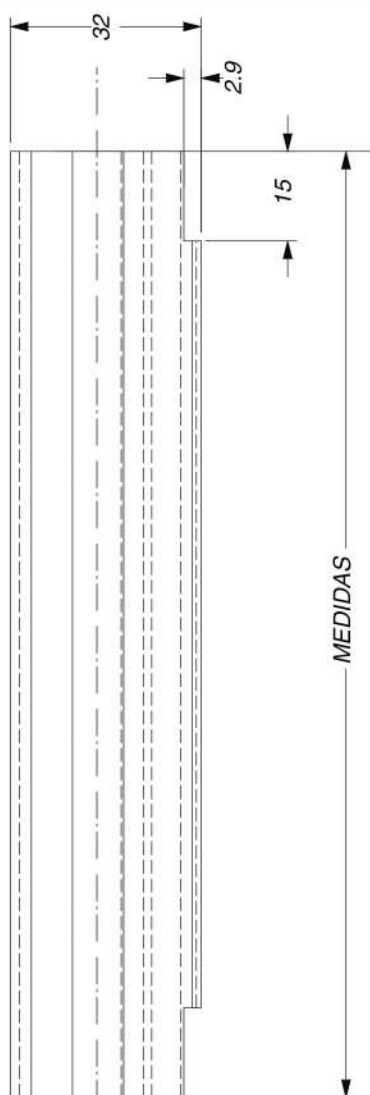
1.160 60080

CONSTRUÇÃO PAULISTINHA

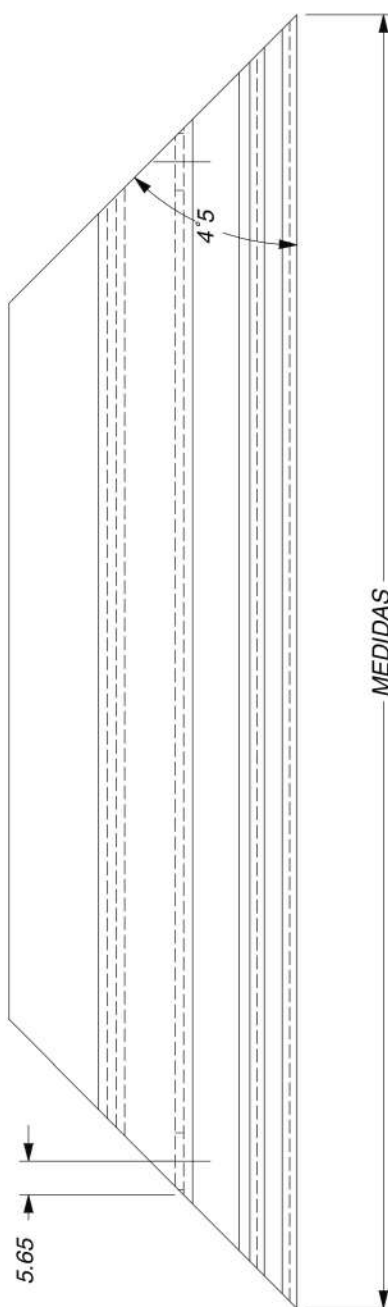




0.77 kg/m



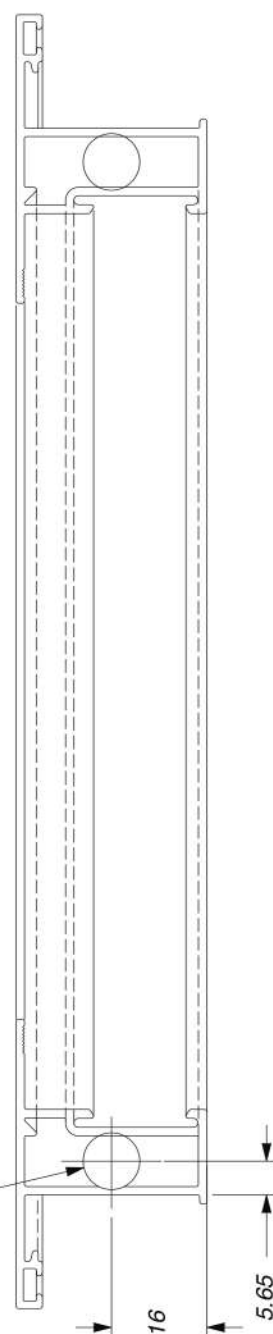
0.52 kg/m

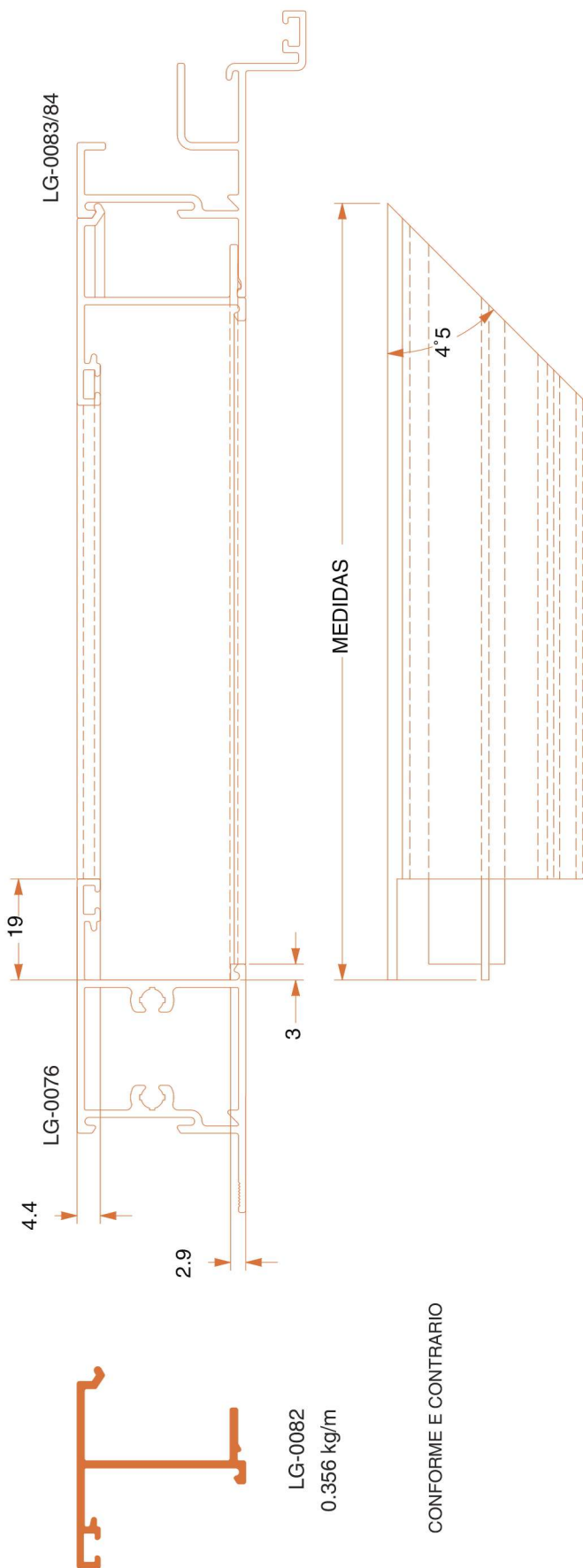
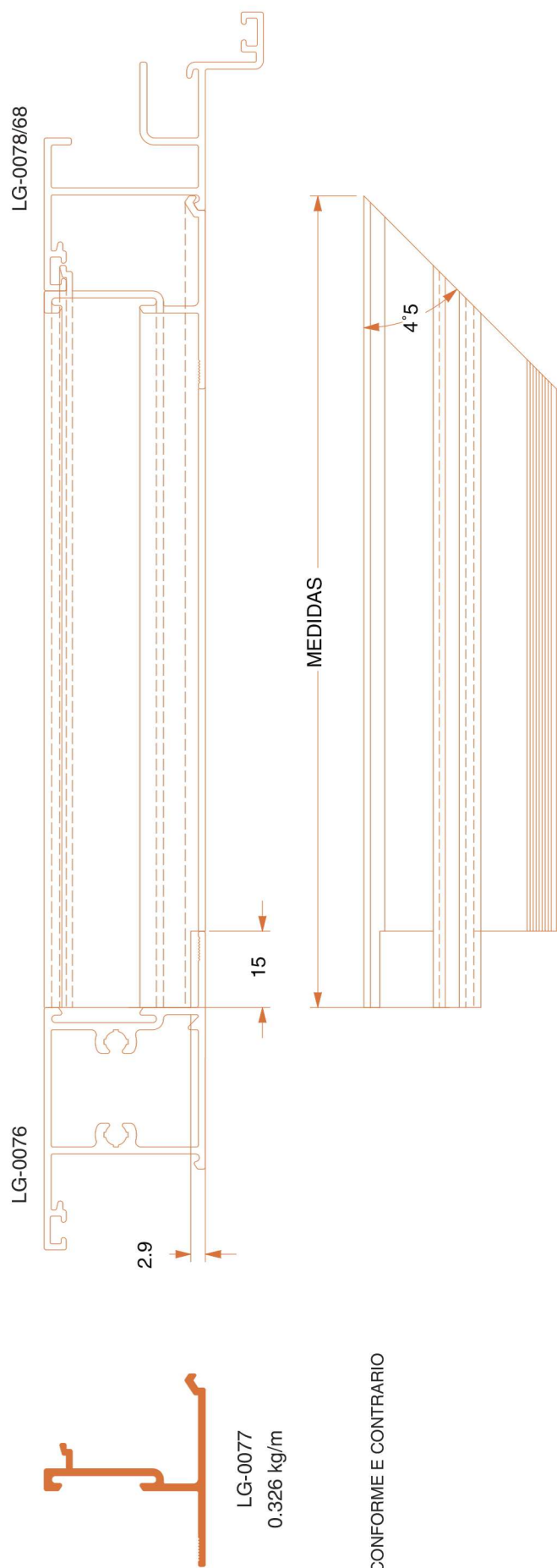


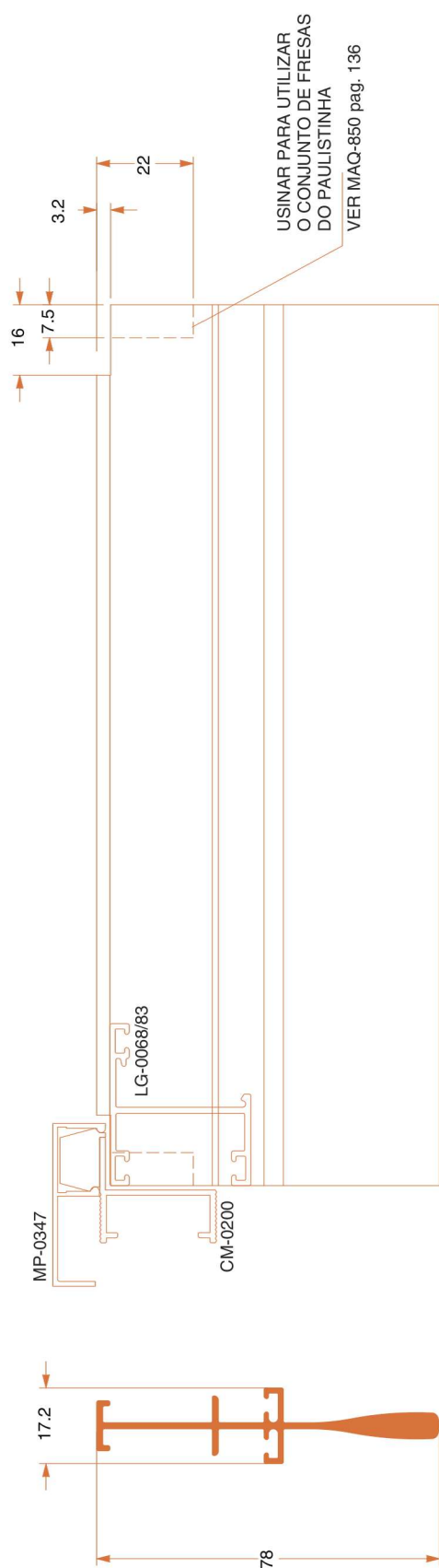
Ø 9.5 APÓS FECHAR QUADRO USAR NYL-042

FAZER FUROS PARA BATER CUNHA
SOMENTE NAS TRAVESSAS

NOS CASOS DOS FECHOS, VERIFICAR
FORNECEDOR PARA RESOLVER USINAGEM

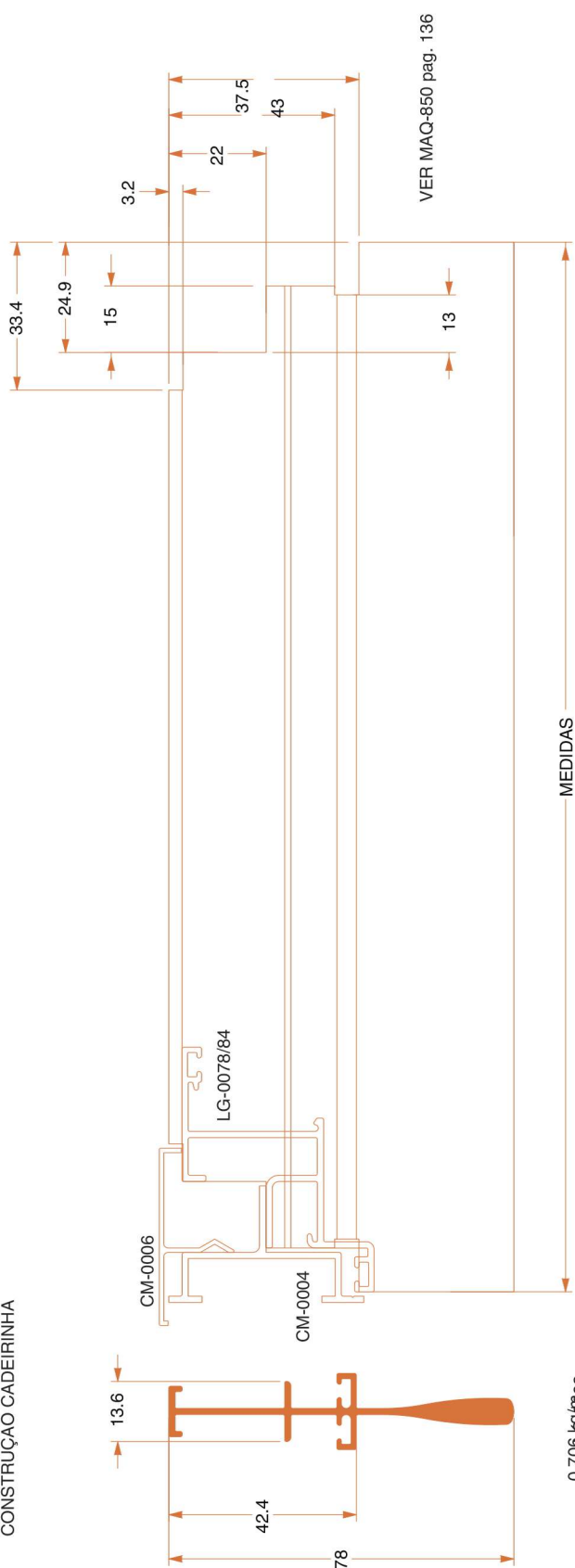






0.706 139/0093

CONSTRUÇÃO CADEIRINHA



MEDIDAS

0.706 139/0093

CONSTRUÇÃO PAULISTINHA

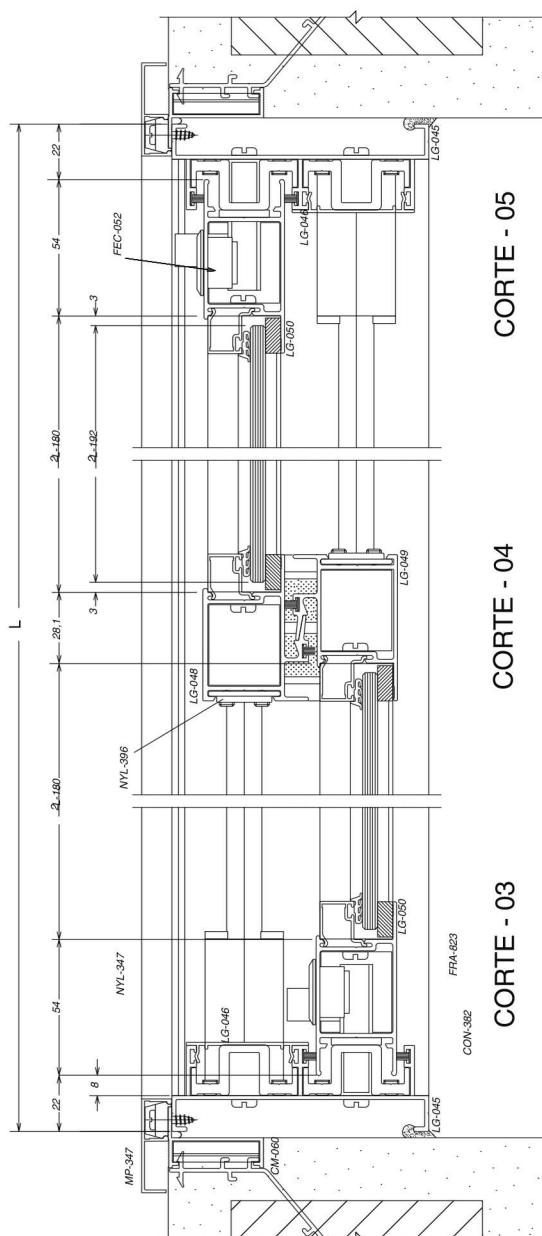
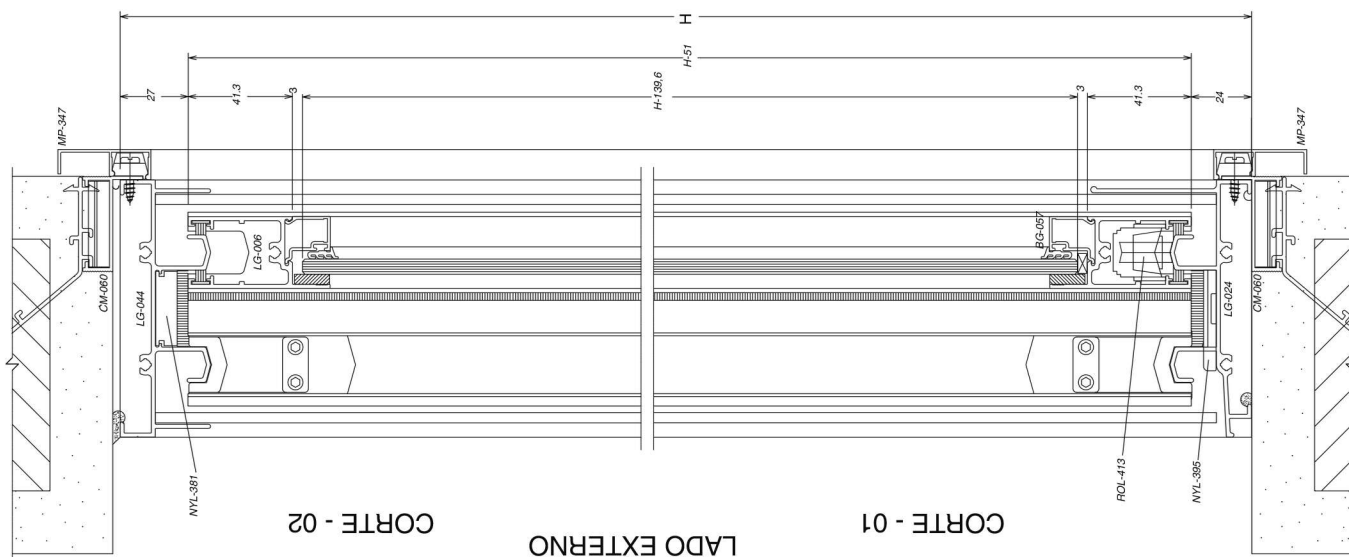
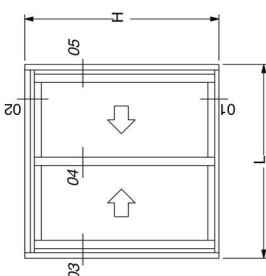


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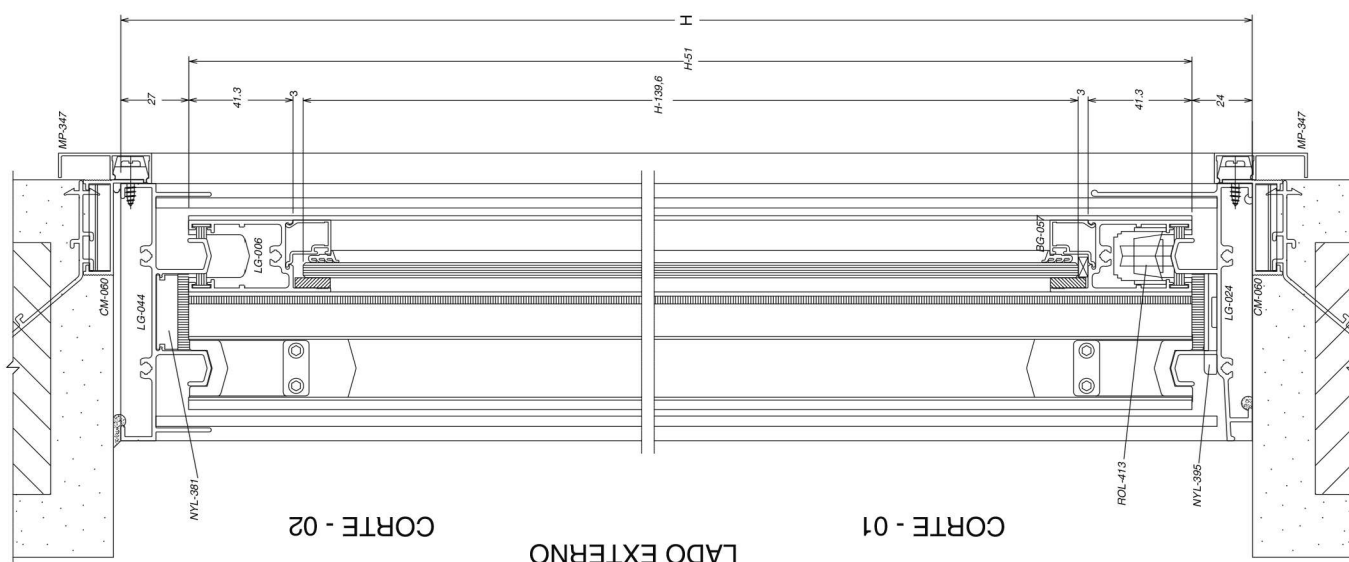
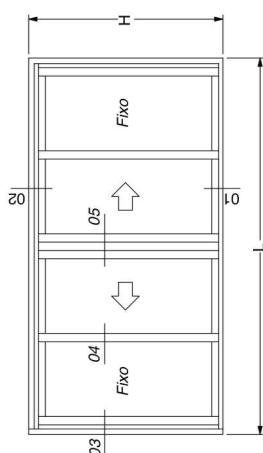
ELEVAÇÃO VISTA EXTERNA



LADO EXTERNO

JC-2F

ELEVAÇÃO VISTA EXTERNA

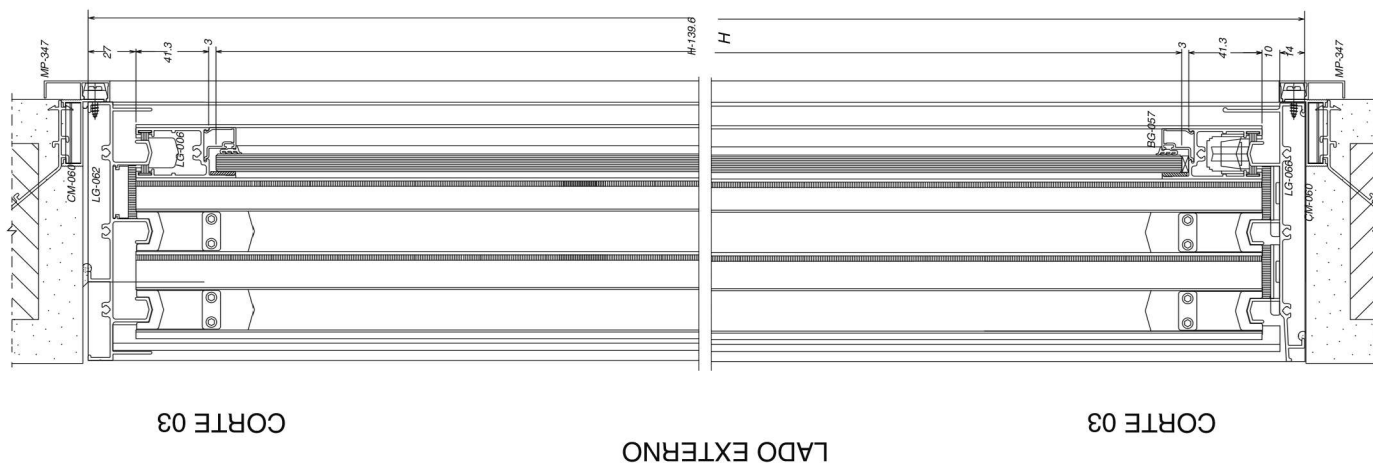


CORTE - 05
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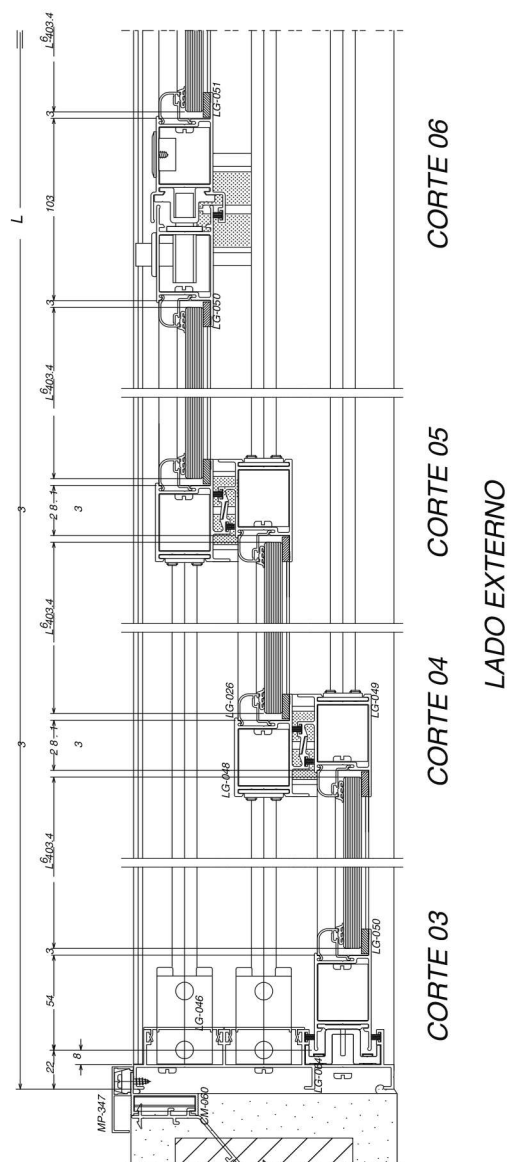
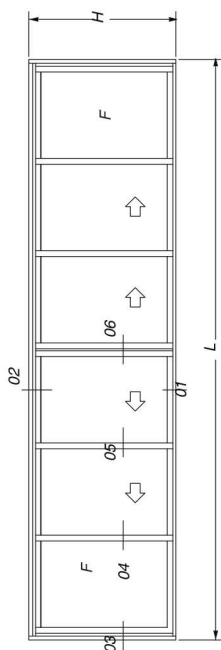
CORTE - 04

CORTE - 03

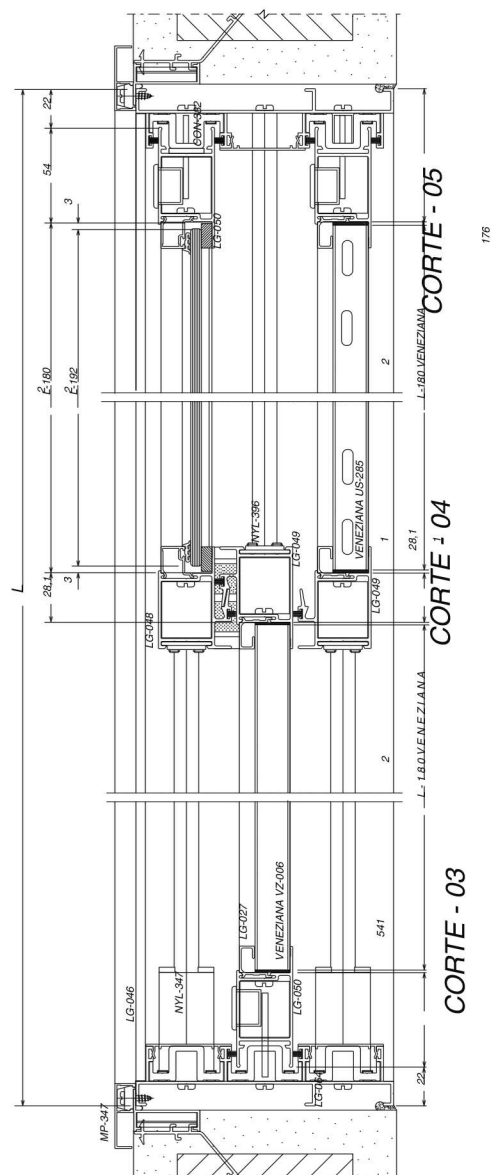
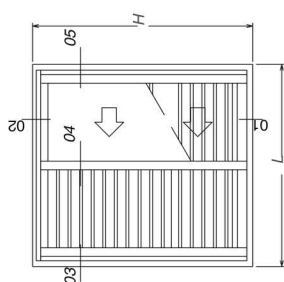
JC-4F



ELEVAÇÃO VISTA EXTERNA

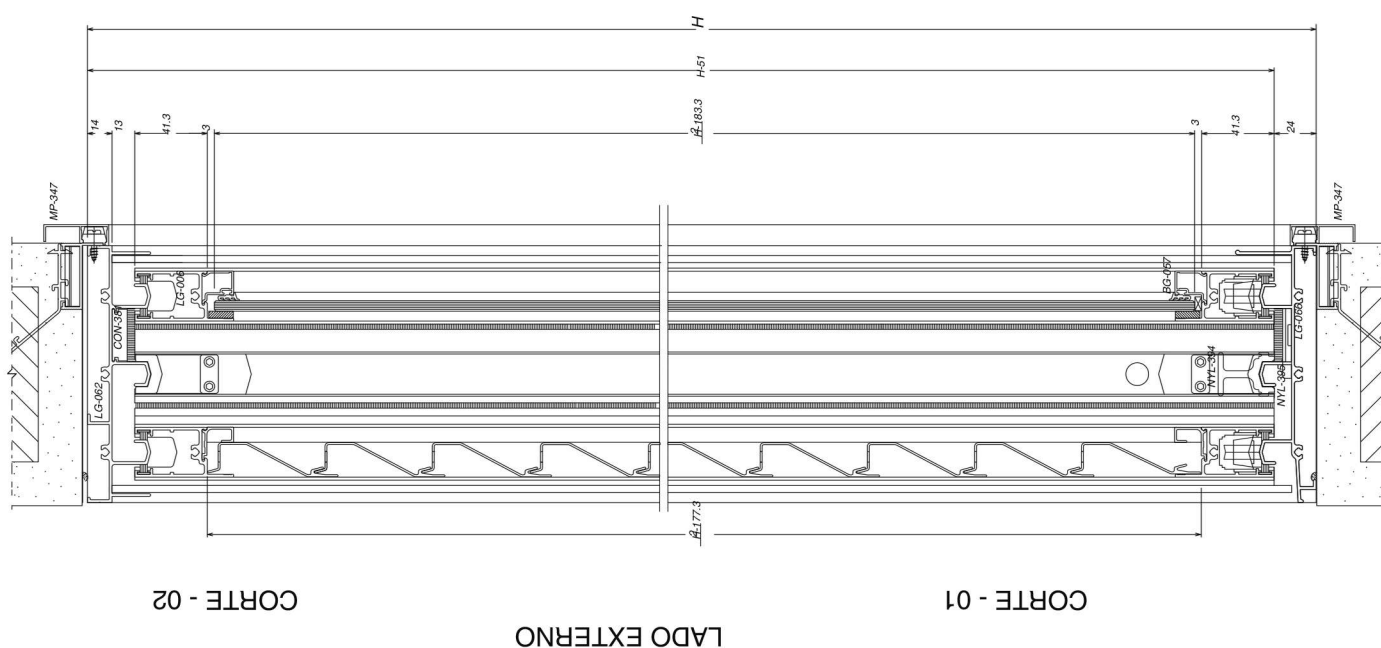


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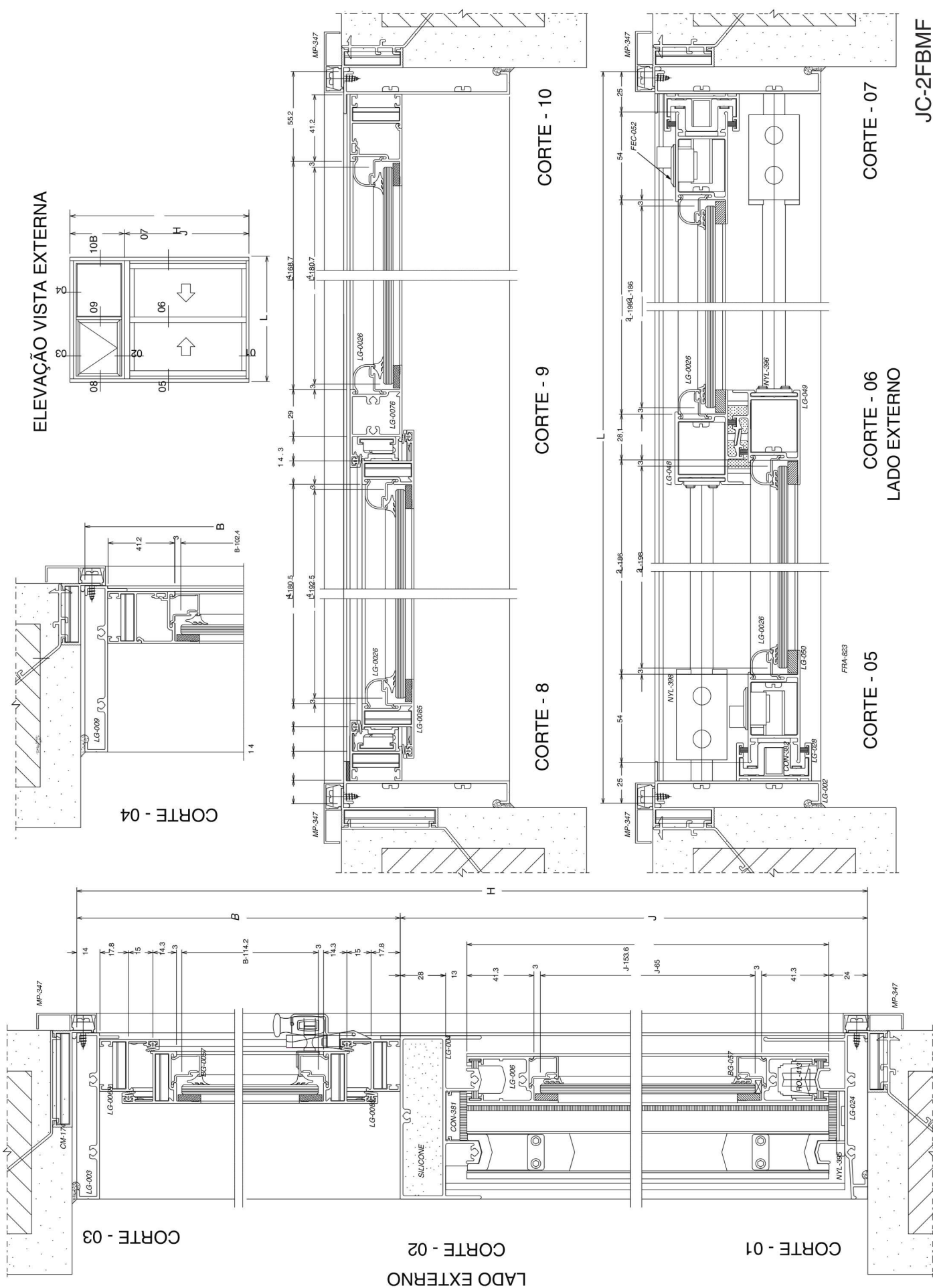


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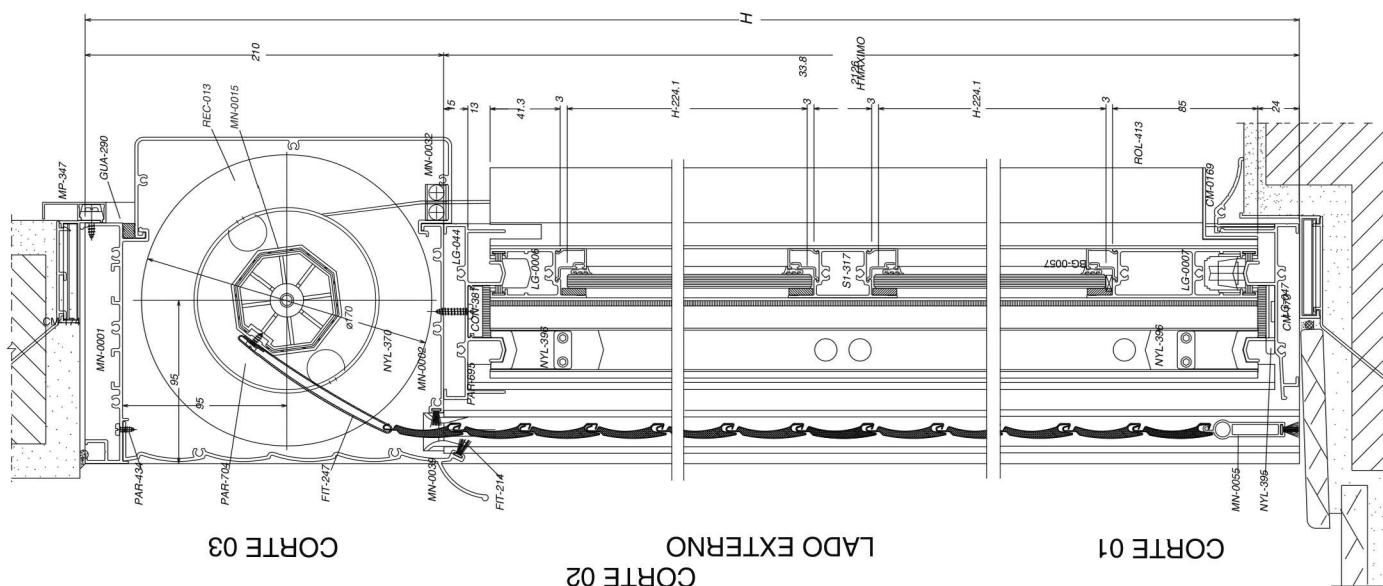
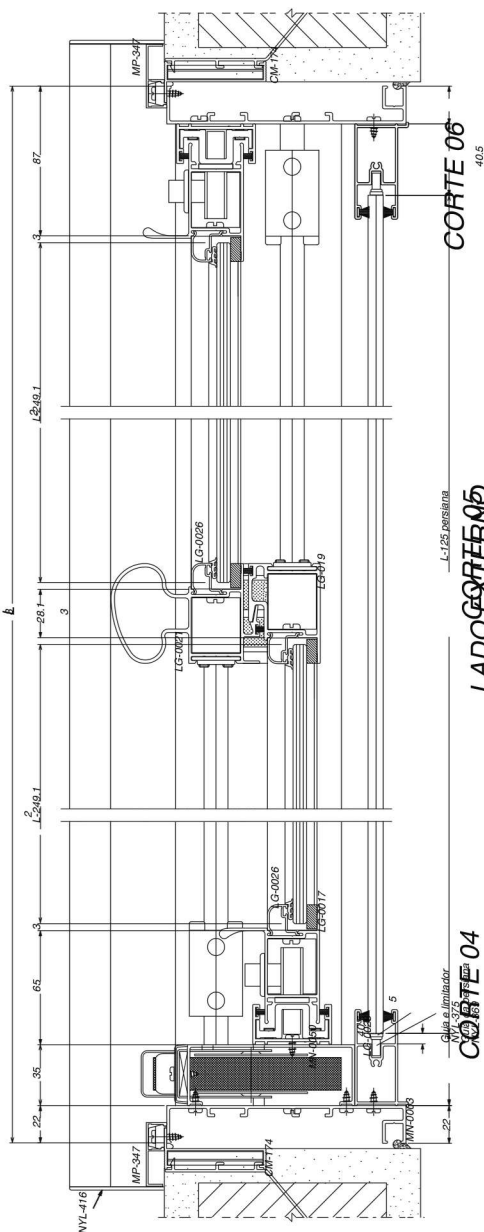
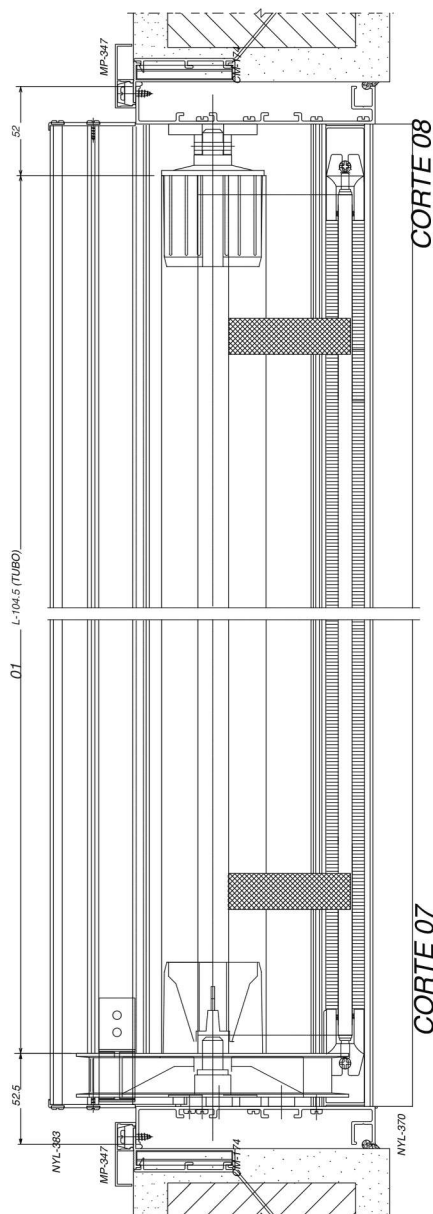
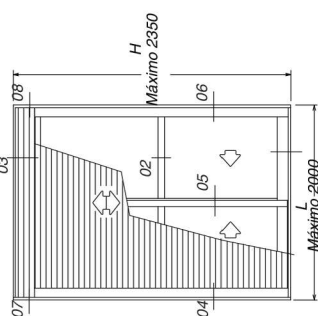
JC-3FVZ



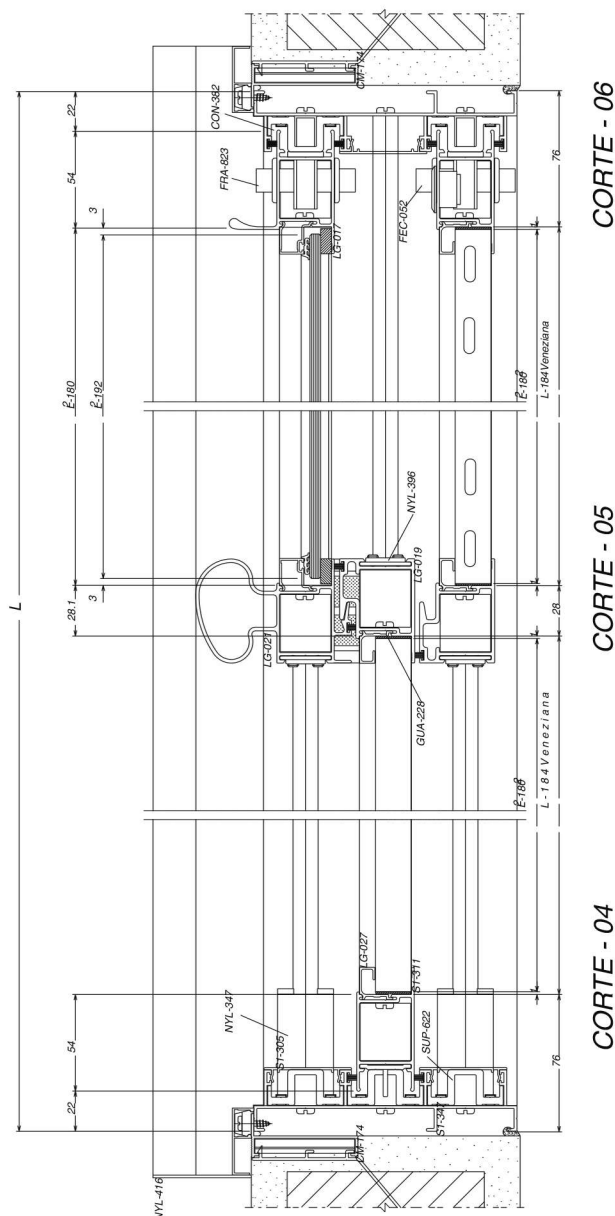
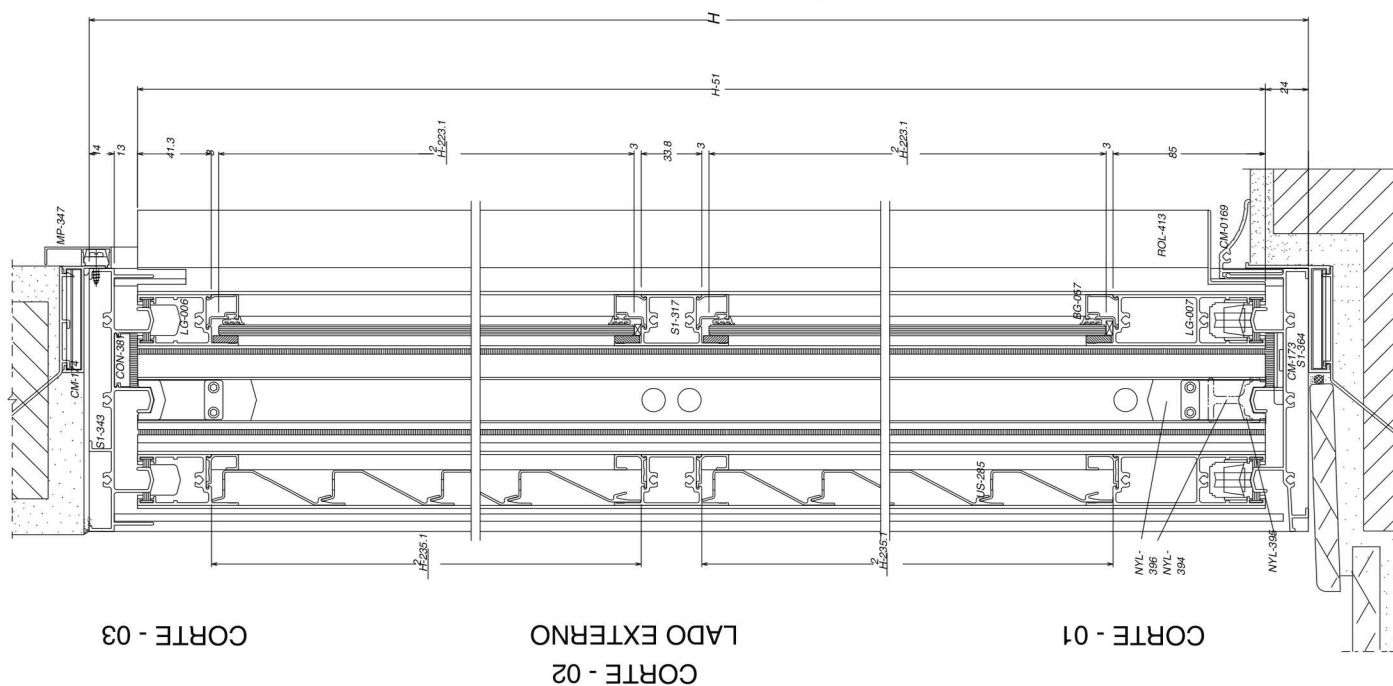
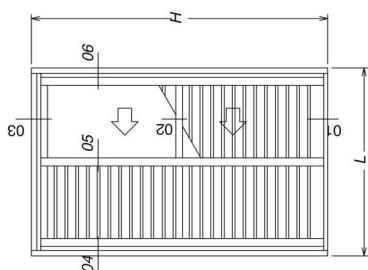
Janela de correr 2 folhas com bandeira móvel e fixa



ELEVÇÃO VISTA EXTERNA



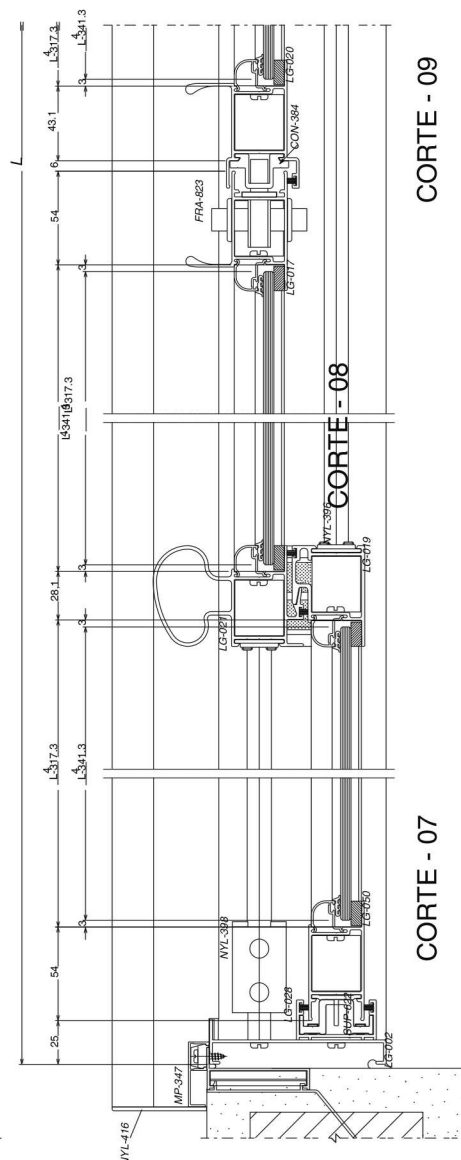
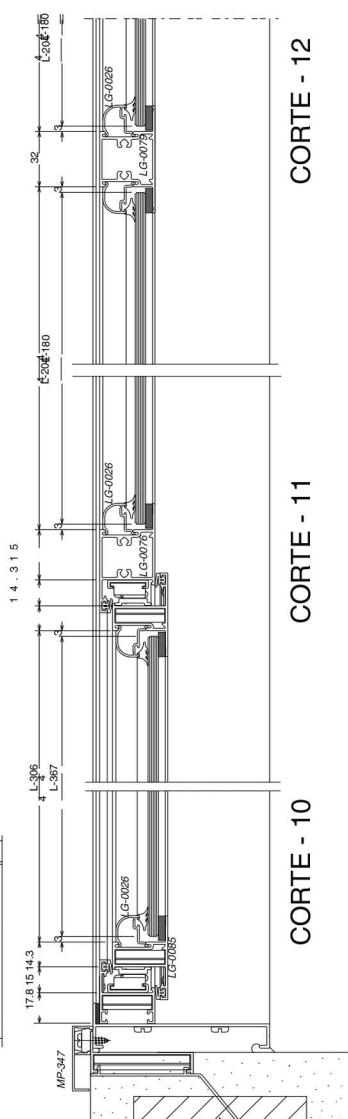
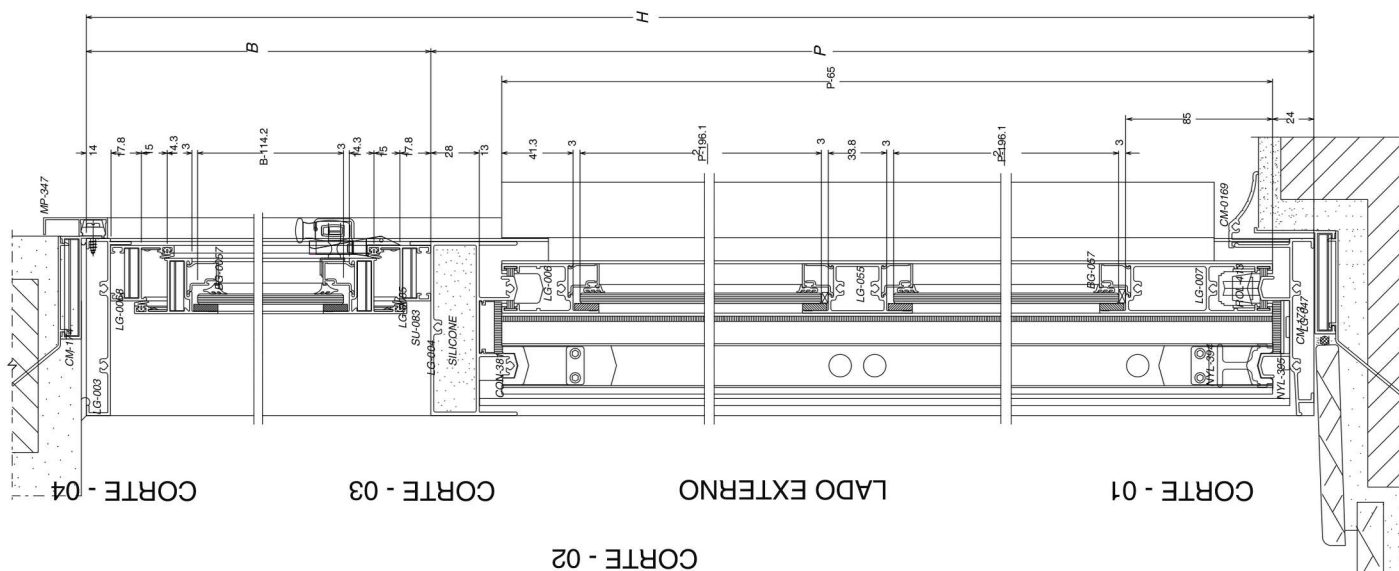
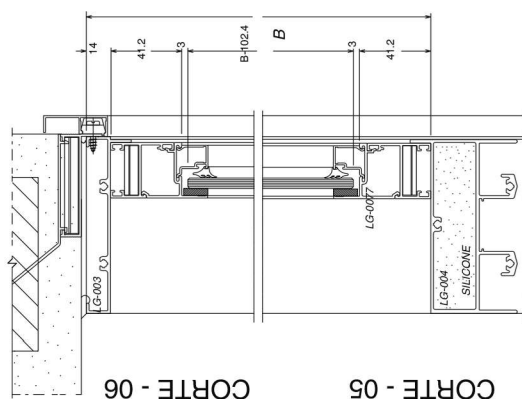
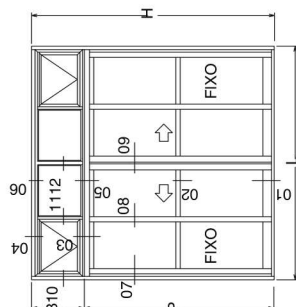
ELEVAÇÃO VISTA EXTERNA



LADO EXTERNO

PC3F-VZ

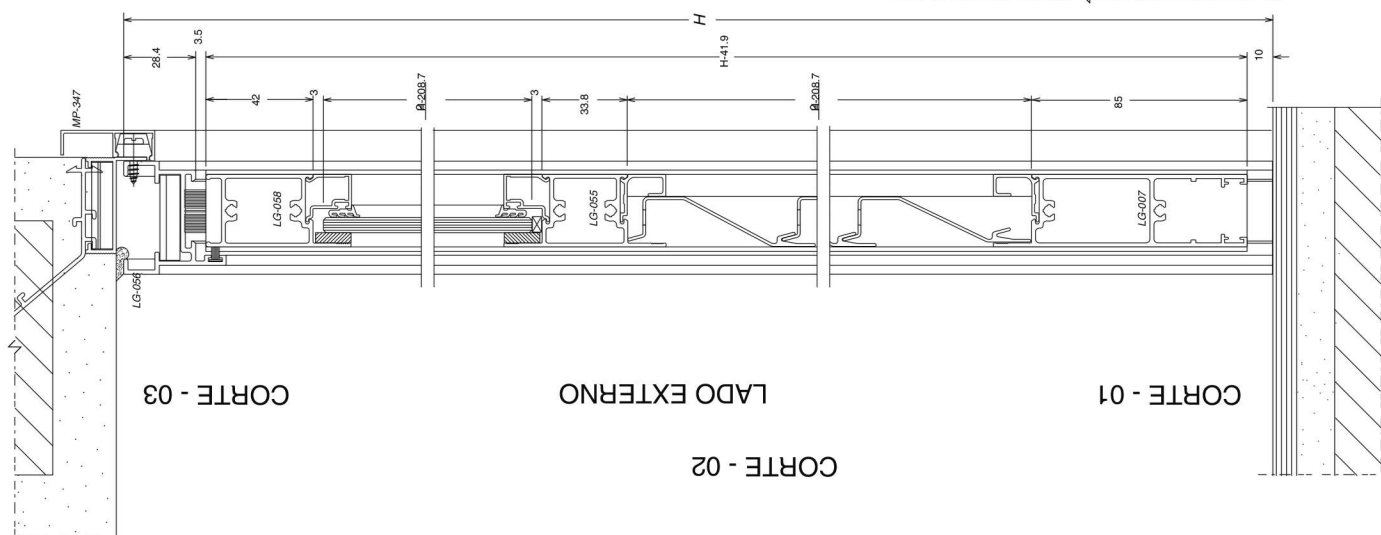
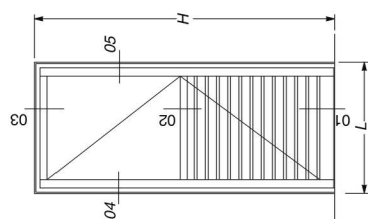
ELEVAÇÃO VISTA EXTERNA



PC4F-BMF

LADO EXTERNO

ELEVAÇÃO VISTA EXTERNA



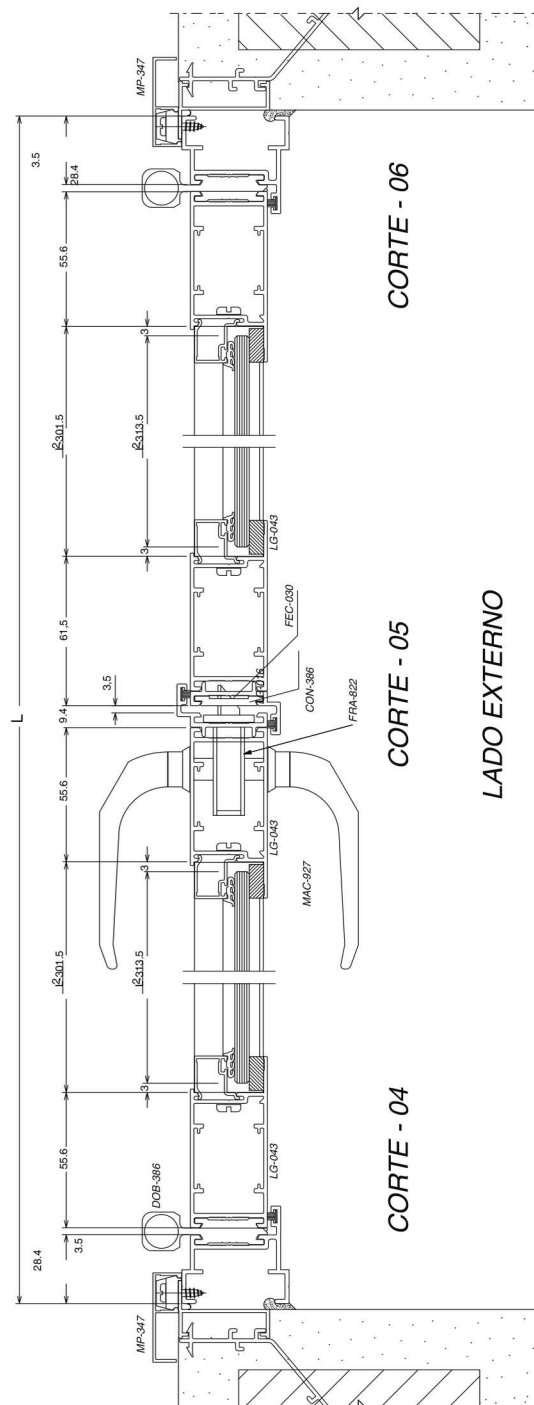
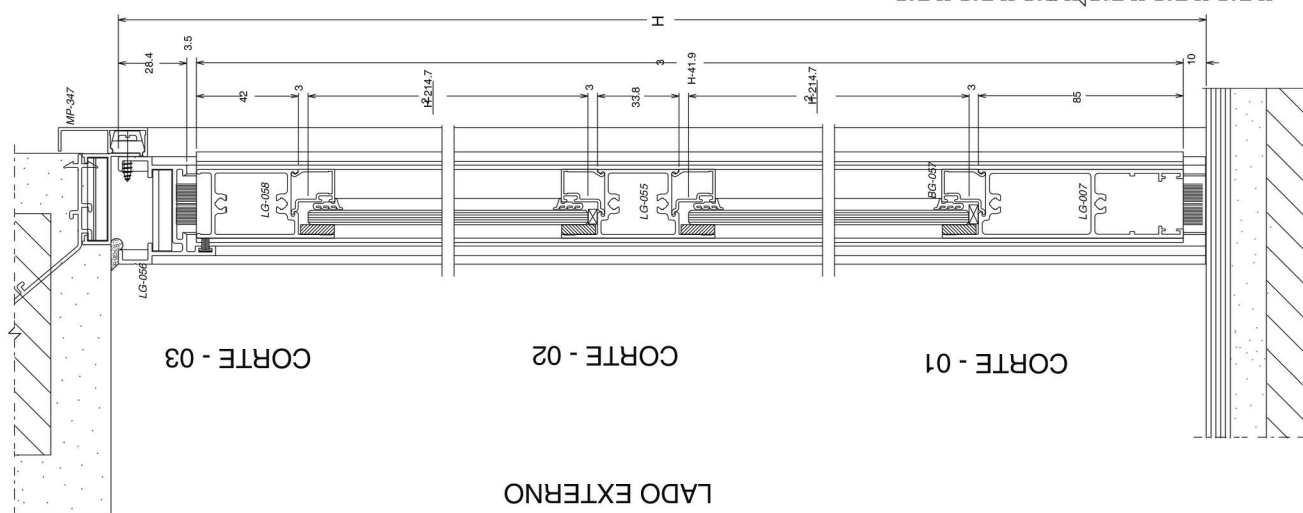
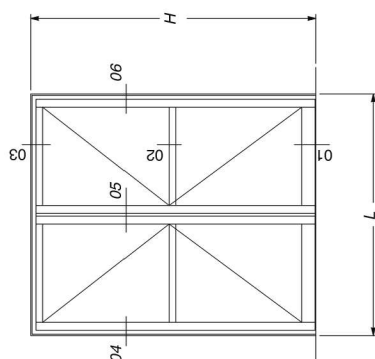
LADO EXTERNO

CORTE - 05

CORTE - 04

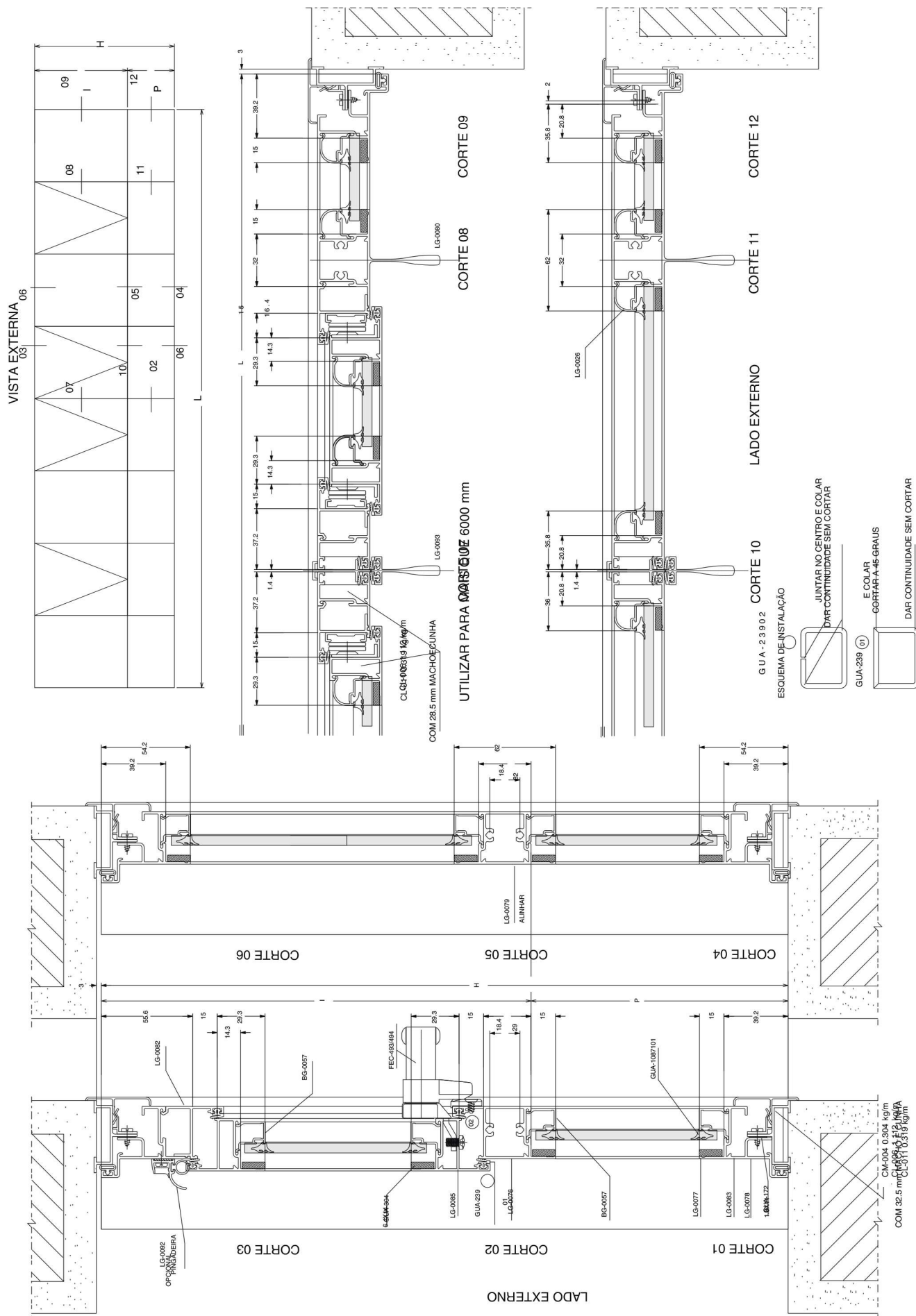
PGR1-FVZ

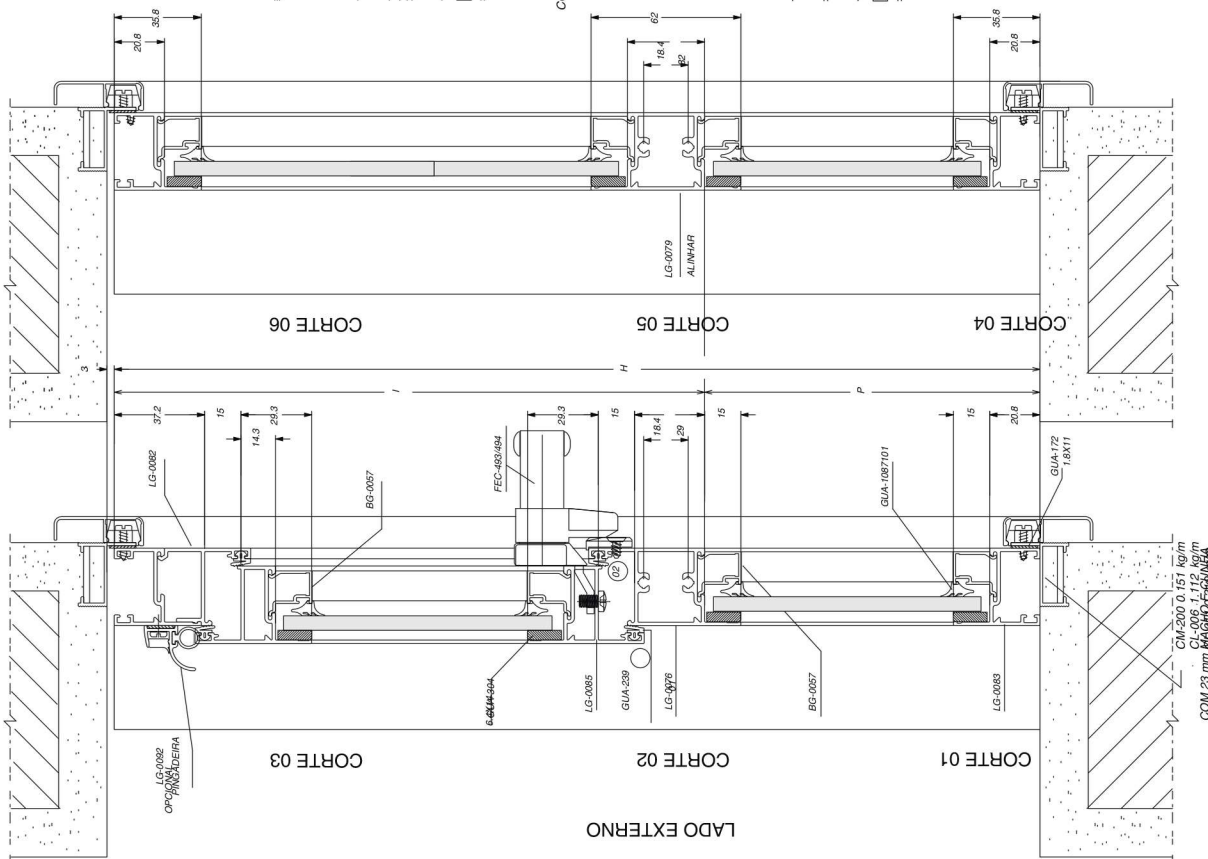
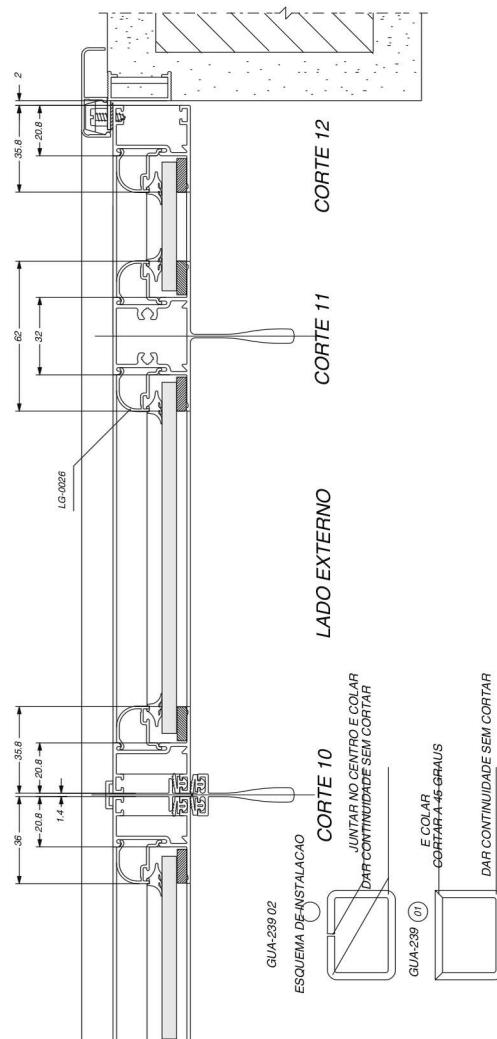
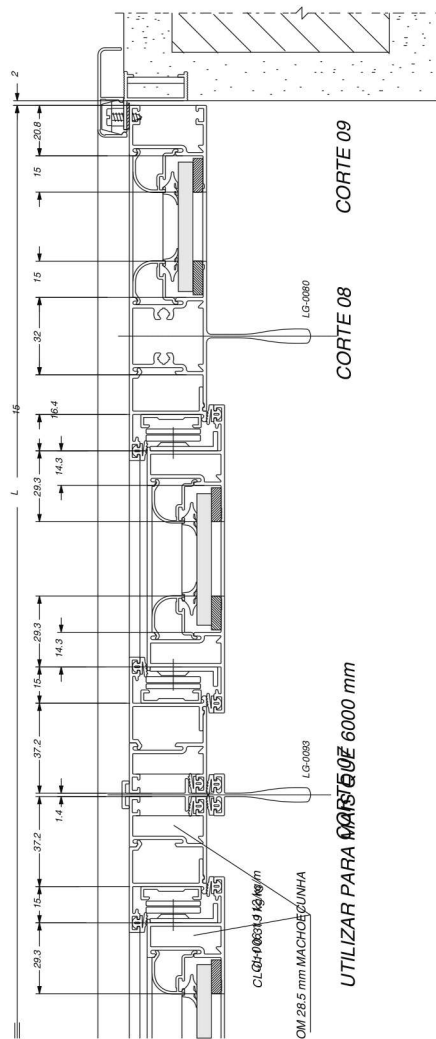
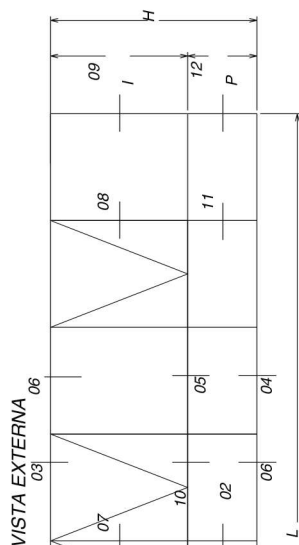
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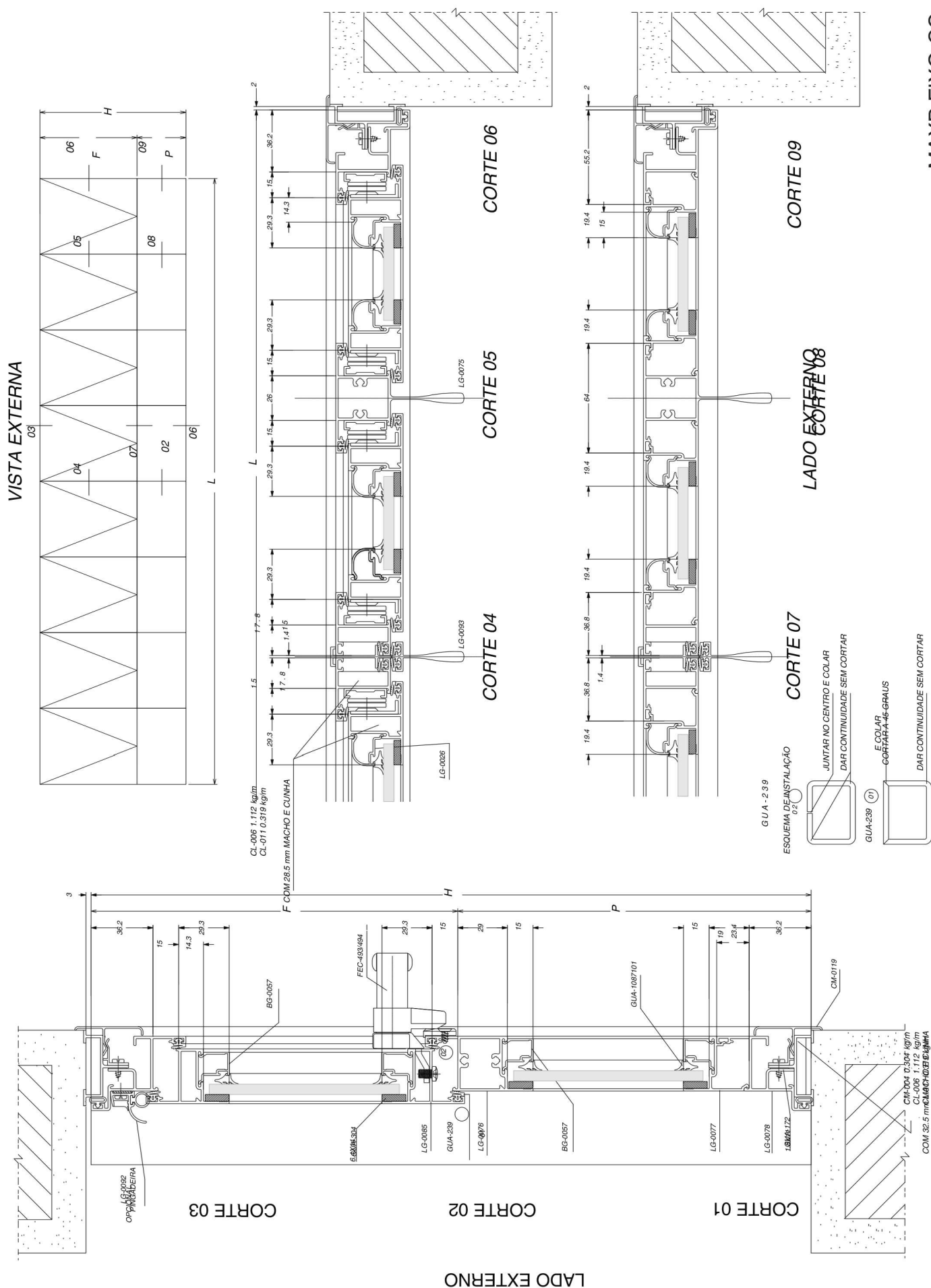


LADO EXTERNO

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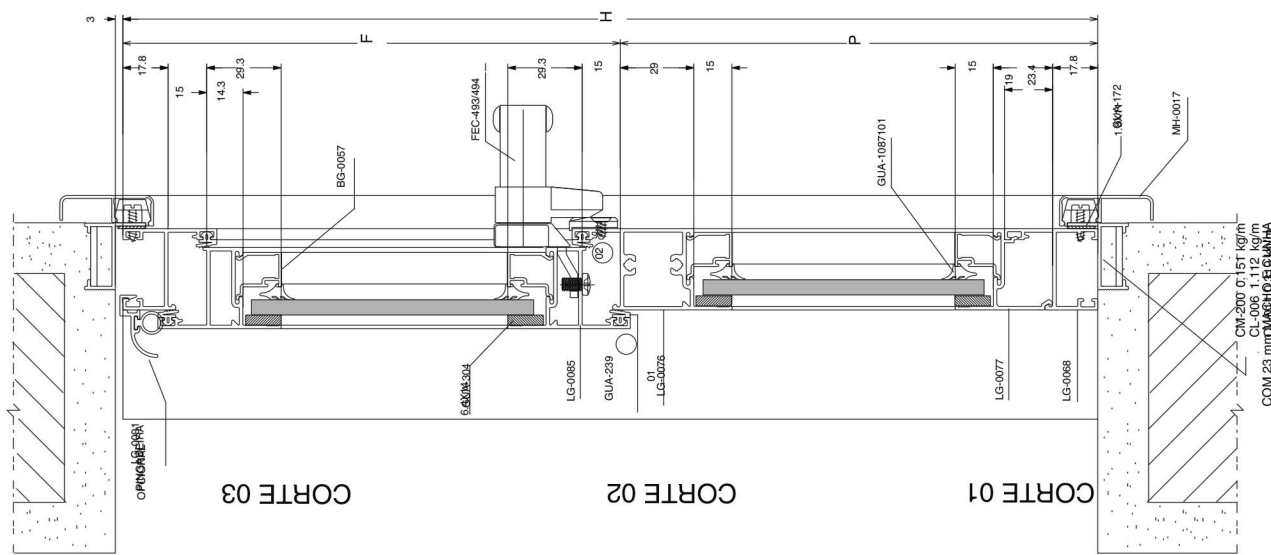
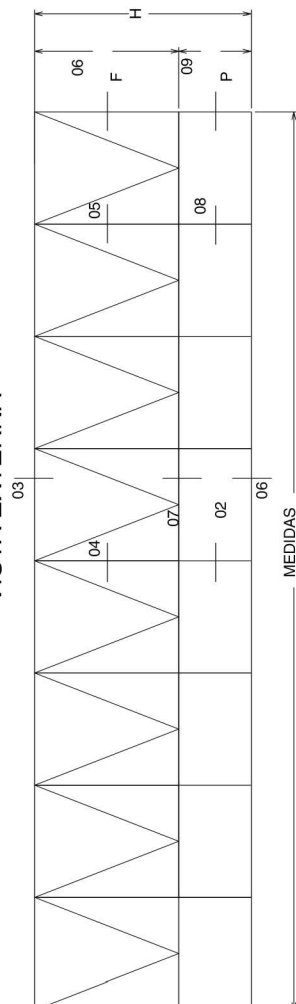






MAXP FIXO-CC

VISTA EXTERNA



CL-006 1.112 kg/m CL-011 0.319
g/m
COM 28.5 mm MACHO E CUNHA

LADO EXTERNO

164

CORTE 04

CORTE 05

CORTE 06

CORTE 07

CORTE 08

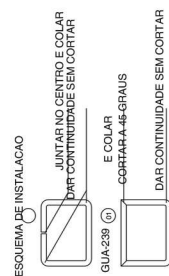
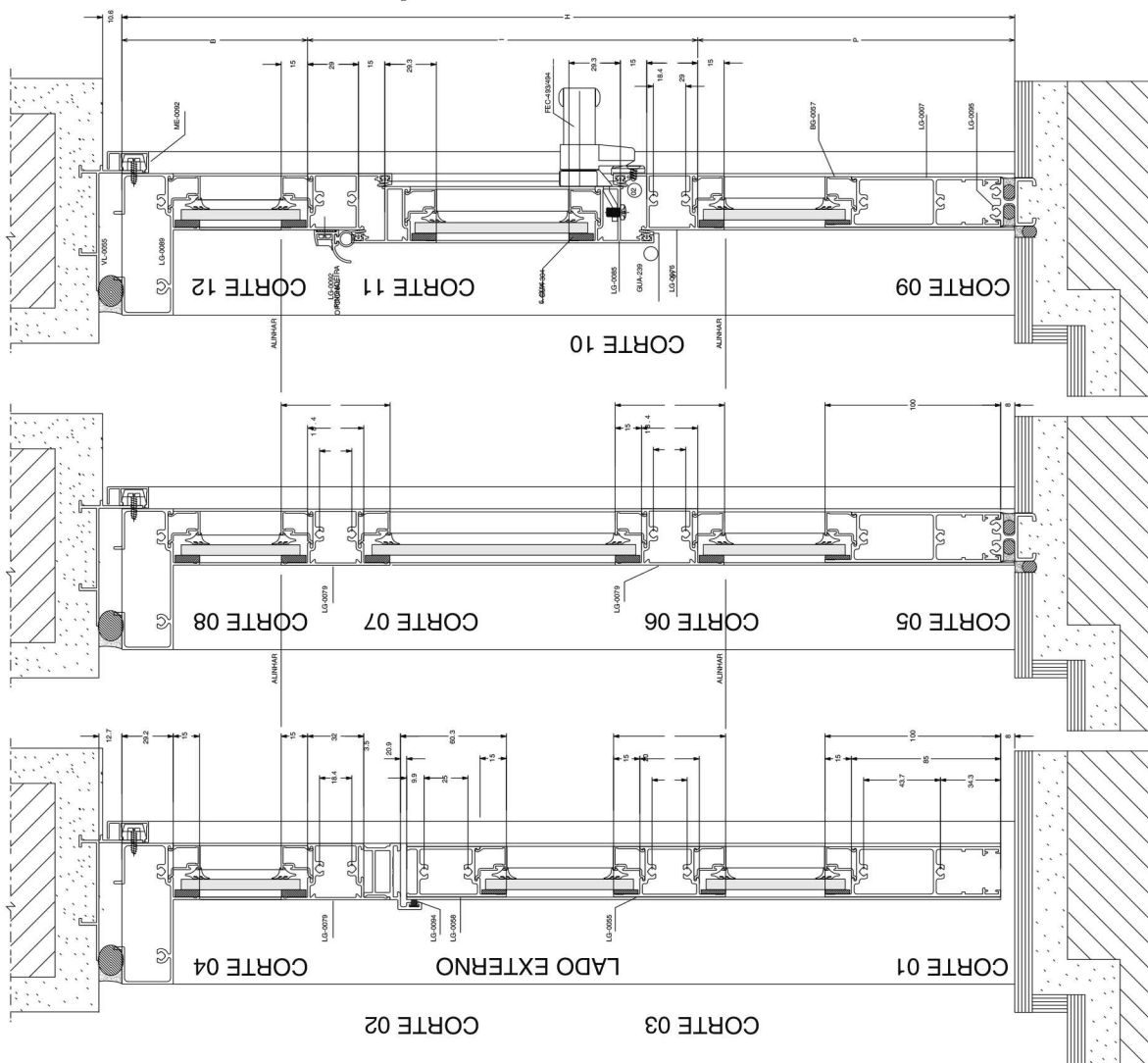
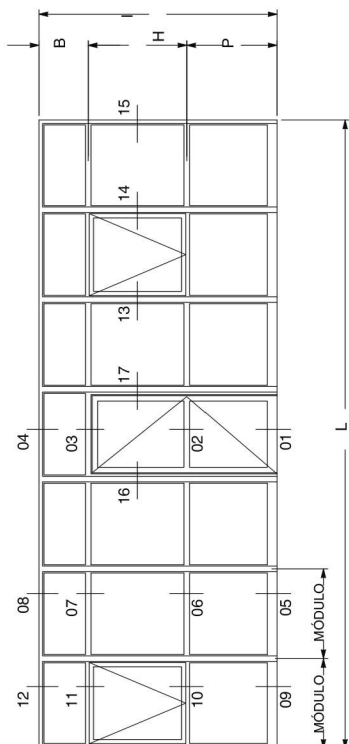
CORTE 09

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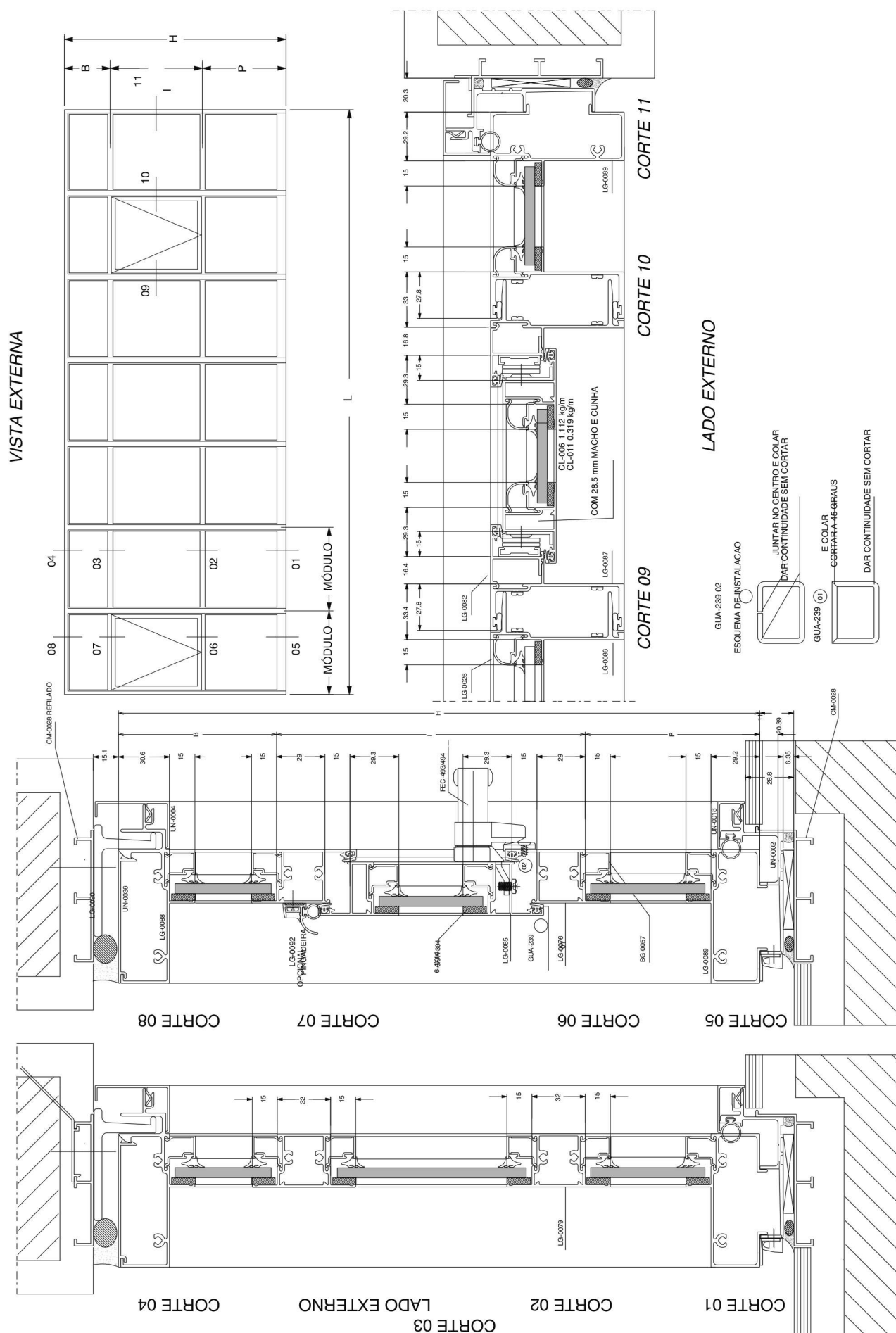
MAXP FIXO-CD

Janela maxim-ar conjugada c/ porta de giro e painel fixo

VISTA EXTERNA



CJP-GIRO





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(62) 99645-6600

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