HYDRO

IV GOLD®

Sistema de esquadrias para o segmento residencial de bitola 32mm

Hydro Extruded Solutions

A Hydro Extruded Solutions, com sede em Oslo, na Noruega, é uma empresa de atuação global especializada na produção e transformação de alumínio.

Fundada em dezembro de 1905, há pouco mais de cem anos, portanto, a empresa é hoje líder de mercado. Suas operações se estendem por aproximadamente 40 países, possui mais de 100 unidades e empregam mais de 22 mil pessoas.

Utiliza tecnologia própria para todas as suas operações, desde a produção de alumínio primário até a reciclagem do metal, passando por fundição, laminação, extrusão e fabricação de componentes e montagens.

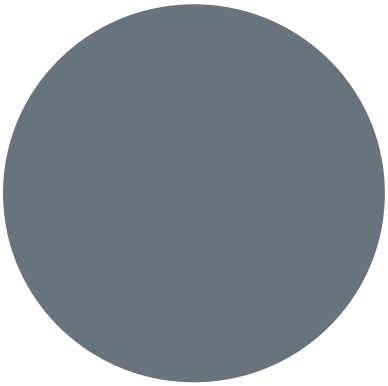
Os clientes da Hydro Extruded Solutions estão nas indústrias automotiva, de equipamentos para transporte de pessoas e mercadorias, arquitetura e construção civil, embalagens, litografia, bens de consumo, aplicações elétricas, máquinas e equipamentos.

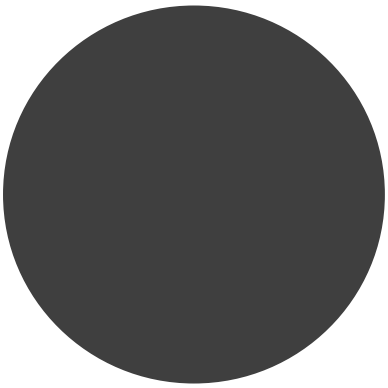
Alumínio & Cia.

Rede de distribuidores exclusivos de produtos extrudados Hydro, presente em todas as regiões do Brasil. Nas lojas da rede, o cliente encontra os melhores sistemas de esquadrias desenvolvidos pela Hydro. São diversas linhas de produtos exclusivos para os segmentos residencial e comercial.

QUALIDADE RECONHECIDA
Alumínio & Cia.
GARANTIA DE ORIGEM

Acesse www.aluminioecia.com.br
e saiba mais.





SOFISTICAÇÃO E DESEMPENHO NOS PROJETOS DE ALTO PADRÃO

• Perfeita para grandes vãos;

• Grande variedade de tipologias;

• Componentes exclusivos garantem suavidade e praticidade ao conjunto;

• Possibilidade de instalação de vidros duplos reduz a transmissão de calor e ruídos;

• Excelente comportamento estrutural;

• Folhas com deslizamento suave;

• Facilidade na fabricação e instalação.

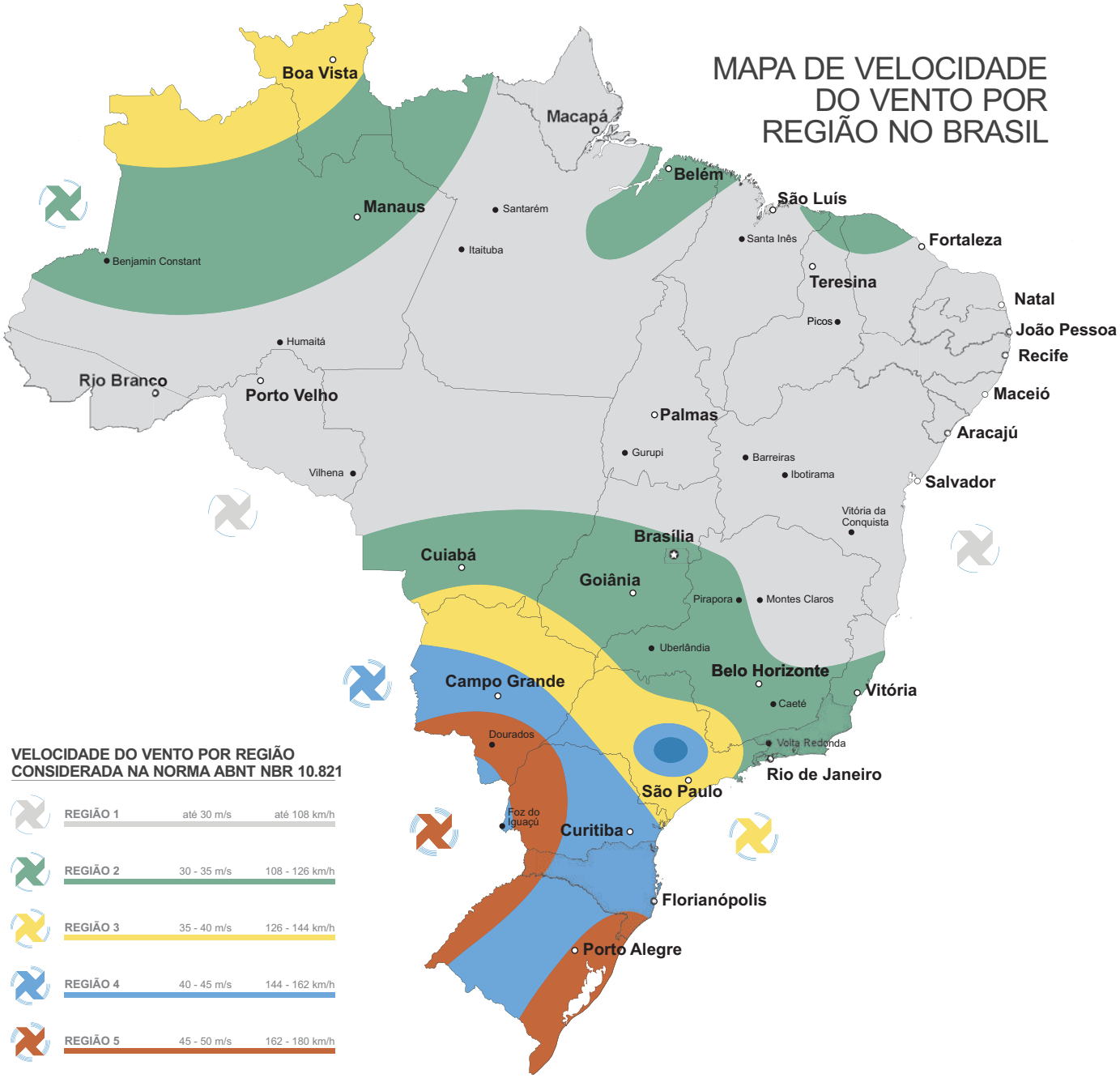
Índice

NBR 10.821-2011

A NBR 10.821 / 11 - Esquadrias externas para edificações - determina os parâmetros de desempenho das esquadrias em todo o Brasil e o conhecimento de seu conteúdo é de grande importância para todos que atuam neste mercado. Neste catálogo, você irá encontrar gráficos que demonstram o desempenho estrutural da Linha IV Gold. Para facilitar o entendimento, segue abaixo a orientação de interpretação deste material com base nesta norma.

Comportamento Estrutural em relação à Pressão do Vento

Veja ao lado o mapa do Brasil de Isopletas, onde temos as delimitações das regiões brasileiras por velocidade dos ventos, conforme a NBR 6123 / 11 - Forças devidas ao vento em edificações.



A velocidade do vento é o parâmetro inicial para calcularmos a pressão do vento no local desejado, levando-se em conta ainda a altura do edifício, rugosidade do terreno, localização em vales ou grandes centros, forma geométrica do edifício, entre outras características. Para facilitar, a NBR 10.821 / 11 traz a tabela a seguir, que é valida para edifícios de formas regulares e determina as Pressões de Ensaio, Segurança e de água em edifícios de 30 pavimentos ou 90 metros de altura em todas as regiões do país.

Valores de pressão do vento conforme a região do país e o número de pavimentos da edificação

Quantidade de pavimentos	Altura Máxima	Regiões do País	Pressão do ensaio Pe em (Pa) Positiva e negativa Pe = pp x 1,2	Pressão de segurança Ps em (Pa) Positiva e negativa Ps = pp x 1,5	Pressão de água Pa em (Pa) Positiva e negativa Pa = Pp x 0,2
02	6 m	I	350	520	60
		II	470	700	80
		III	610	920	100
		IV	770	1160	130
		V	950	1430	160
05	15 m	I	420	640	70
		II	580	860	100
		III	750	1130	130
		IV	950	1430	160
		V	1180	1780	200
10	30 m	I	500	750	80
		II	680	1030	110
		III	890	1340	150
		IV	1130	1700	190
		V	1400	2090	230
20	60 m	I	600	900	100
		II	815	1220	140
		III	1060	1600	180
		IV	1350	2020	220
		V	1660	2500	280
30	90 m	I	660	980	110
		II	890	1340	150
		III	1170	1750	200
		IV	1480	2210	250
		V	1820	2730	300

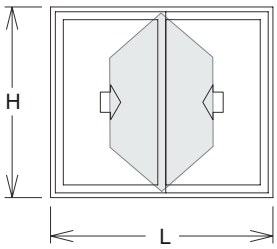
Começando da esquerda para a direita temos na primeira coluna a quantidade de pavimentos, na segunda a altura máxima do edifício e na terceira a região de velocidade dos ventos do Brasil. Na quarta coluna temos a pressão de ensaio, dada em Pascal. Com estes dados, o calculista deve considerar se os montantes e travessas das portas e janelas ou as colunas e travessas, em caso de fachadas-cortinas, irão atender aos esforços, sendo que a deformação máxima não deve ultrapassar H / 175 ou 30 mm, o que for menor, tanto no caso de pressão positiva quanto de pressão negativa. Durante o teste em laboratório, esta deformação será medida com a aplicação das pressões e após a sua retirada a esquadria deverá funcionar normalmente.

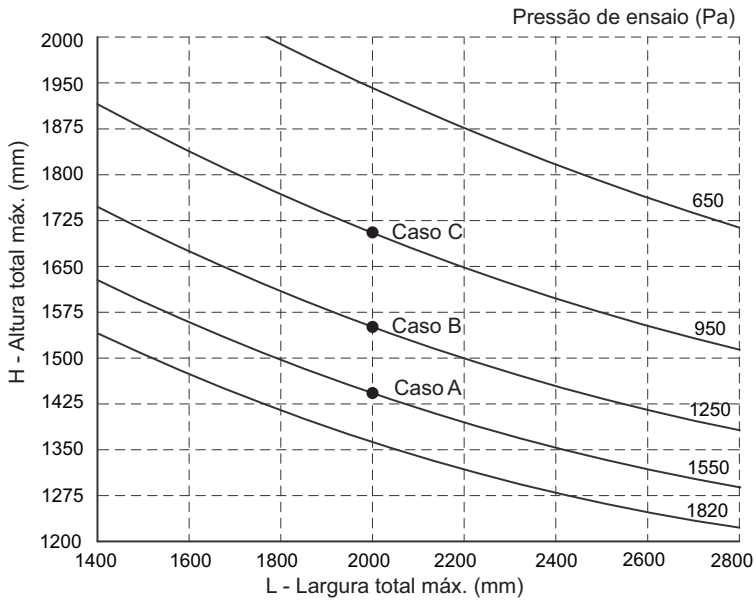
Na quinta coluna, apresenta-se a pressão de segurança. Esta pressão foi estabelecida para verificar casos extremos que a esquadria deve suportar. Durante o ensaio, não se exige a medição da flecha provocada, mas a verificação de que não houve colapso total ou parcial de qualquer dos componentes da esquadria, incluindo o vidro.

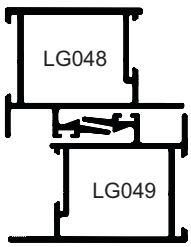
Logo, é importante considerar o desempenho dos vidros durante o cálculo. Como colapso entende-se qualquer alteração vital no funcionamento do conjunto, sua estrutura ou componentes, que coloque em risco os usuários ou terceiros.

Para ilustrar, veja o exemplo abaixo:

Janela de correr 2 folhas







Área = 357 mm²
Jx = 77461 mm⁴
Wx = 3588 mm³

Área = 335 mm²
Jx = 73331 mm⁴
Wx = 3305 mm³

Jx total = 150792 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

O gráfico apresenta o desempenho esperado da Linha IV Gold. Considera-se que os montantes das folhas são uma viga biapoiada e que as curvas representam as pressões de Ensaio e de Segurança simultaneamente, sendo que o dado de entrada no gráfico será o valor de Pressão de Ensaio que consta da quarta coluna da tabela da norma.

Analise o caso de janela de 2000 mm de largura e vamos ver com qual altura e em quais regiões ela pode ser aplicada:

Caso A - Ok para 1450 mm de altura na região IV, em edifícios de até 90 metros de altura, com pressão de 1550 Pa (ou 30 pavimentos, o que for menor).

Caso B - Ok para 1550 mm de altura na região III, em edifícios de até 90 metros de altura, com pressão de 1250 Pa (ou 30 pavimentos, o que for menor).

Caso C - Ok para 1700 mm de altura na região II, em edifícios de até 90 metros de altura, com pressão de 950 Pa (ou 30 pavimentos, o que for menor).

Em resumo, diminuindo-se a pressão é possível aumentar a altura da esquadria com a mesma construção.

É importante destacar que a tabela não é valida para:

- Edifícios em que a esquadria não seja instalada na posição vertical;
- Edifícios de forma não retangular;
- Edifícios com especificações, localização, necessidades e exigências especiais de utilização.

Nestes casos, a pressão de Ensaio e de segurança devem ser calculadas de acordo com a NBR 6123 / 11, podendo contar com parâmetros obtidos em ensaio de túnel de vento. Caso encontre-se um valor menor do que consta na tabela 1, fica valendo o maior, de acordo com a NBR 10.821 / 11.

Ref.: ECC/131.094/07 LABORATÓRIO DE ENSAIOS EM MATERIAIS
Fl.: 1/8 Laboratório de Ensaio Credenciado pela Cgcre/INMETRO de acordo com a NBR ISSO/IEC 17.025, sob o nº CRL-003

RELATÓRIO DE ENSAIO ECC/131.094/07

ESQUADRIA DE ALUMÍNIO

DETERMINAÇÕES DIVERSAS

Interessado: ALCOA ALUMÍNIO S/A.
Rua Felipe Camarão, 454 – Utinga
09.220-580– Santo André – SP.

Ensaios: (46.235)

1. **MATERIAL ENSAIADO:**

Um protótipo de janela de alumínio de fabricação **ALCOA ALUMÍNIO S/A,** entregue pelo interessado em 12/01/07, apresentando as seguintes características:

1.1 - Tipo

Janela de alumínio (linha gold) composta por duas folhas de correr.

1.2 - Dimensões do protótipo

Dimensões das folhas:
- Folha de vidro móvel (esquerda): (756 x 1 148) mm;
- Folha de vidro móvel (direita): (756 x 1 148) mm;
- Dimensão total do protótipo: (1 500 x 1 200) mm.

1.3 - Fixação ao vão no laboratório

Para a realização dos ensaios, a janela de alumínio foi fixada no contra marco, previamente chumbado em alvenaria de bloco cerâmico.

1.4 - Sistema de vedação

- **Silicone:**
  - Nos encontros a 90° das travessas e montantes do marco na face interna do perfil;
  - Em todos os encontros a 90° de todos os montantes e travesas do marco e das folhas de vidro móveis;
  - Sobre os parafusos de fixação do marco no contramarco;
- **Guarnição de borracha:**
  - Na fixação dos vidros em todo o perímetro pelo lado interno;

Os resultados apresentados no presente documento referem-se exclusivamente à amostra ensaiada. A reprodução deste documento somente poderá ser feita na íntegra, sendo proibida a reprodução parcial.

Grupo Falcão Bauer

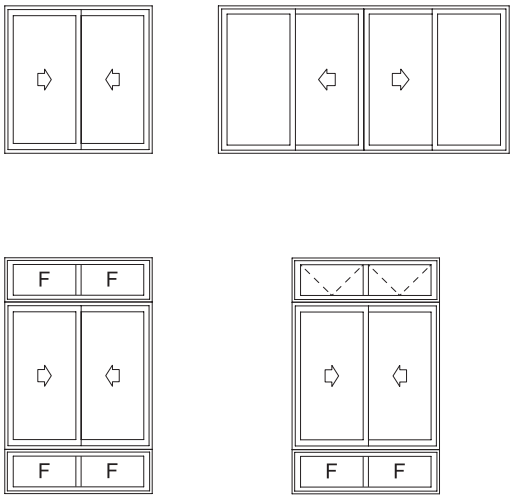
SÃO PAULO: Rua Aquinos, 111 - S.P. - CEP 05036-070 - FONE (11) 3611-0633 - FAX (11) 3611-0170
Filiais: Campinas - São José dos Campos - Santos - Bauru - Rio de Janeiro - (RJ)
www.falcaobauer.com.br - bauer@falcaobauer.com.br - BNA TEL. (11) 3611-0677 / ABBO TEL. (11) 3611-1099

Tipologia	Nº de Certificado	Ensaio Realizado	Laboratório
Janela de correr 2 folhas	ECC - 129736/07 ECC - 131094/07	NBR 10.821 : 2011	Falcão Bauer
Janela de correr 4 folhas	ECC - 134021/07 ECC - 132414/07		
Janela de correr 6 folhas	ECC - 132412/07 ECC - 132411/07		
Janela Maxim-ar	E - 75892/04 E - 76353/04 E - 76727/04 E - 75893/04		
Porta de correr 2 folhas	ECC - 129736/07 ECC - 130550/06		

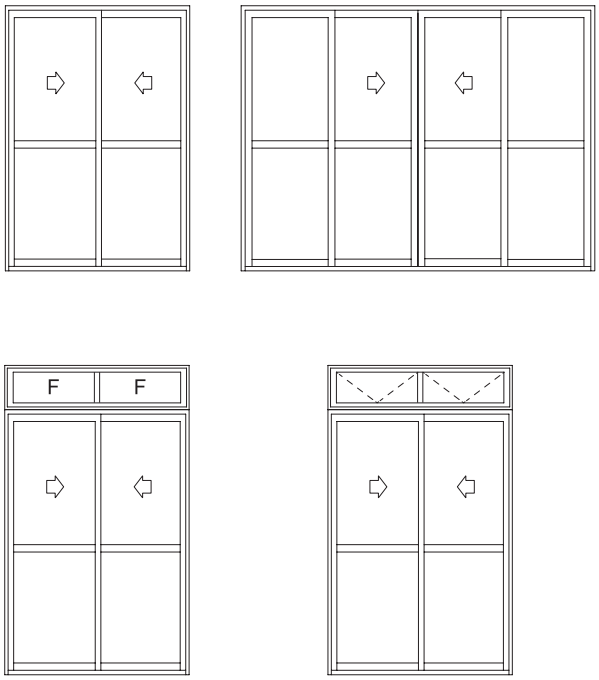
NBR10.821 : 2011 - Verificação da resistência às operações de manuseio


IV
GOLD®

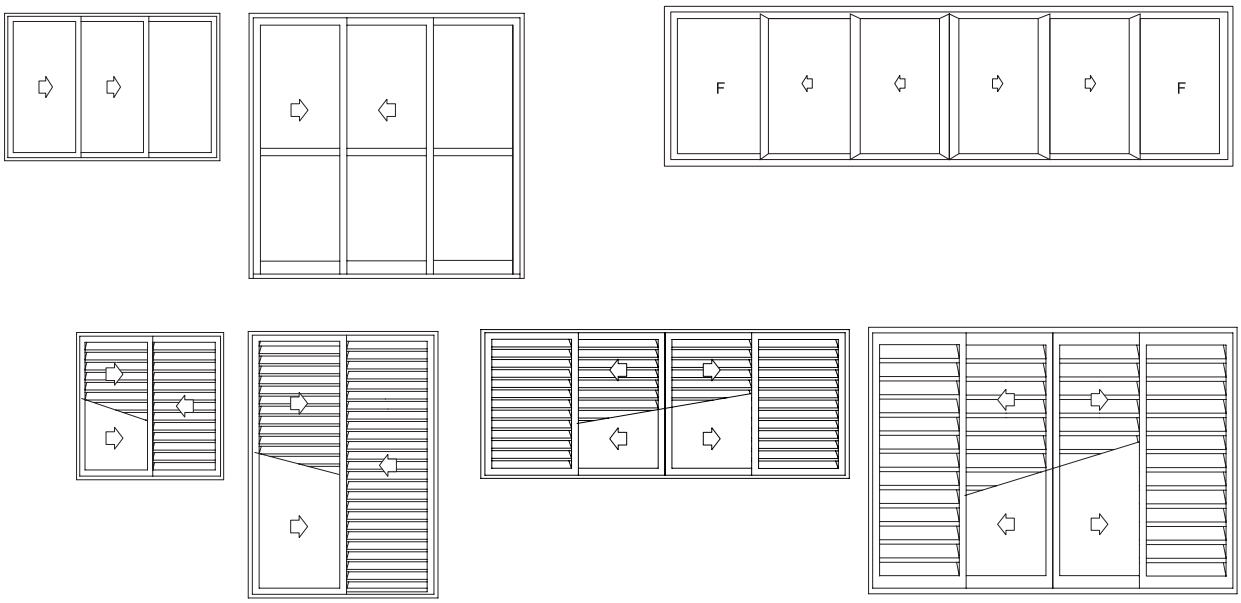
Janelas de Correr
2 e 4 Folhas



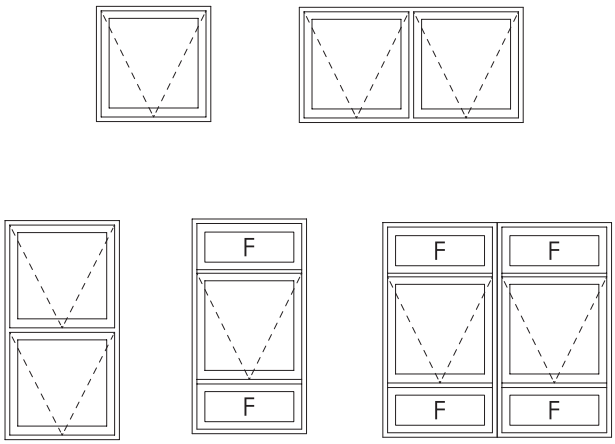
Portas de Correr
2 e 4 Folhas



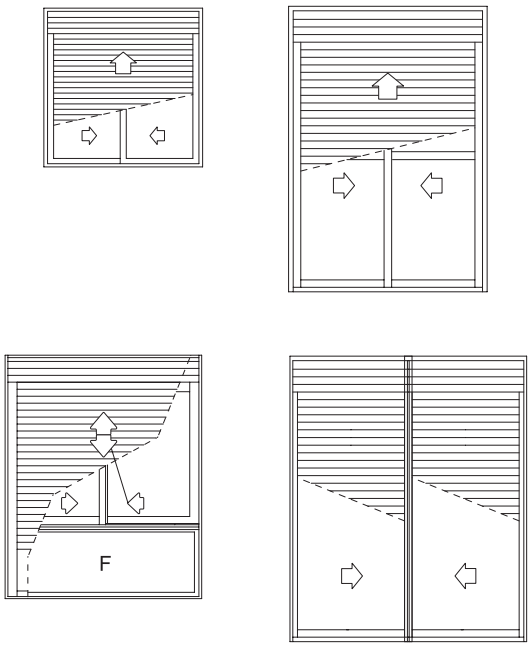
Janelas e Portas de Correr
3 e 6 Folhas



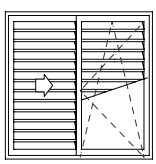
Janelas Maxim-ar
1 e Múltiplas Folhas



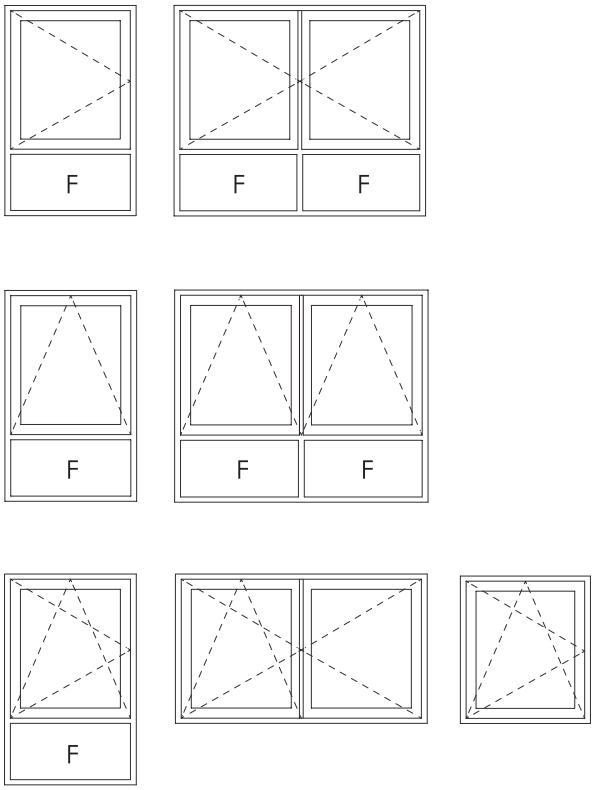
Janela e Porta Integradas



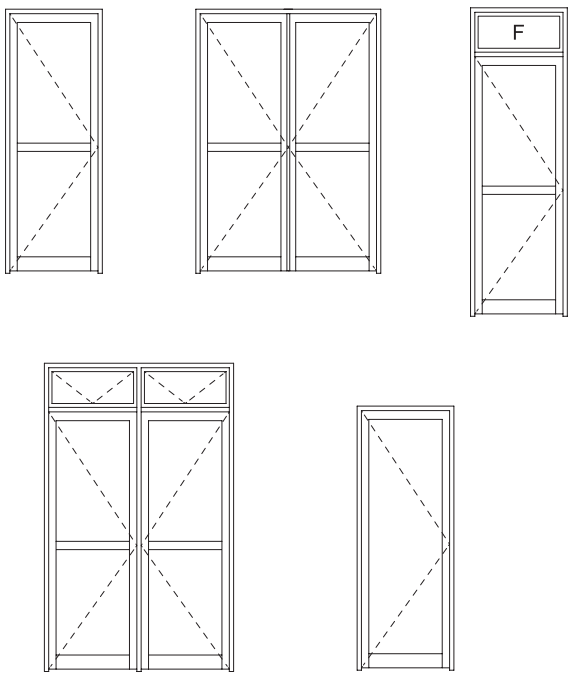
Linha Renova



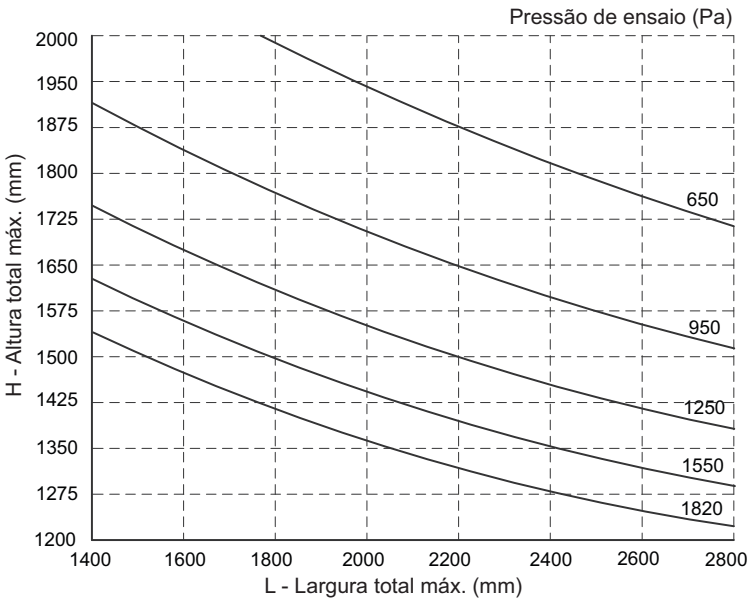
Janelas Abre e Tomba

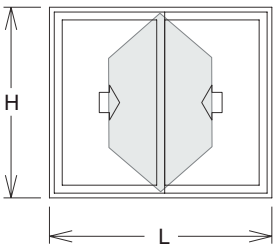


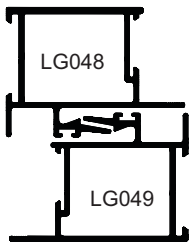
Portas de Giro
1 e 2 Folhas



Janela de correr 2 folhas







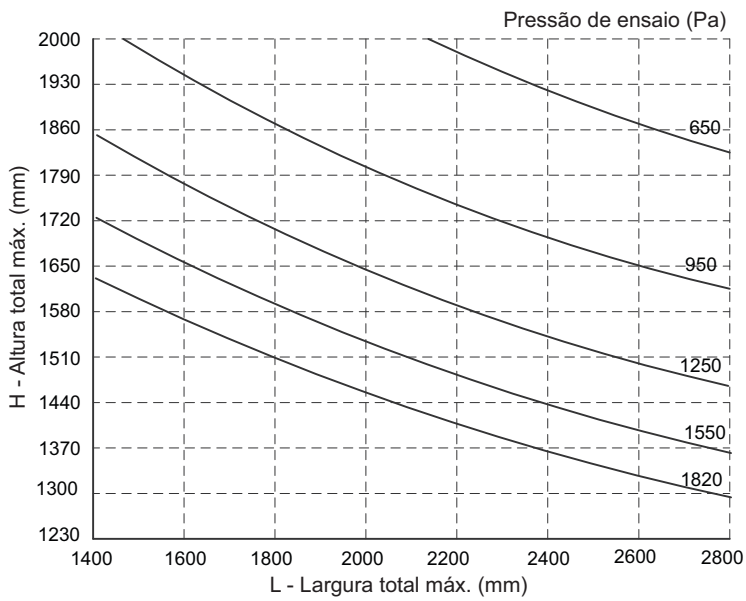
Área = 357 mm²
Jx = 77461 mm⁴
Wx = 3588 mm³

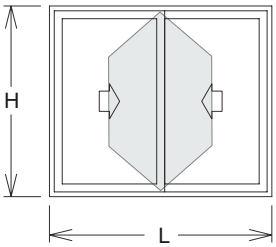
Área = 335 mm²
Jx = 73331 mm⁴
Wx = 3305 mm³

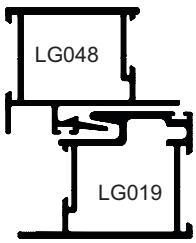
Jx total = 150792 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Janela de correr 2 folhas







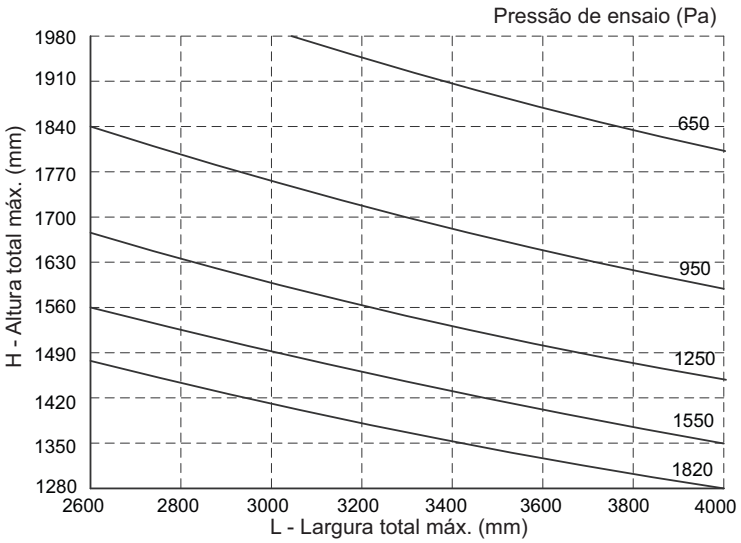
Área = 357 mm²
Jx = 77461 mm⁴
Wx = 3588 mm³

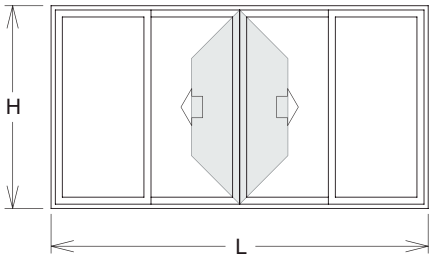
Área = 398 mm²
Jx = 101970 mm⁴
Wx = 4821 mm³

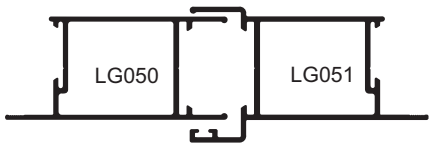
Jx total = 179431 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Janela de correr 4 folhas



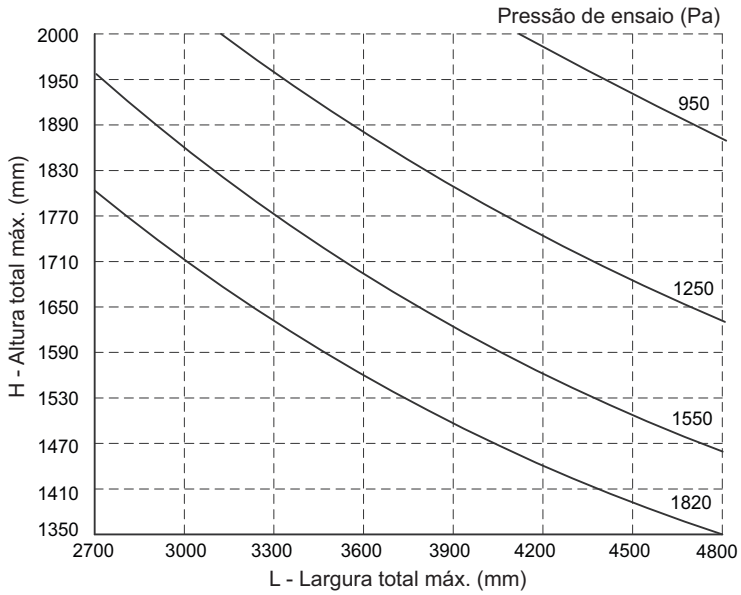


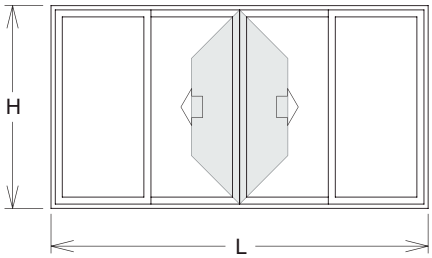


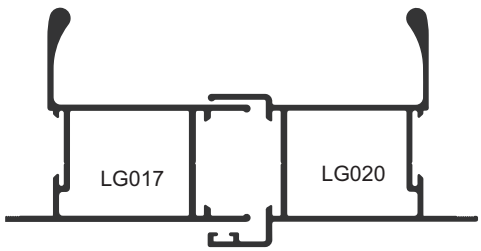
Área = 302 mm² Jx = 52290 mm⁴ Wx = 3069 mm³	Área = 339 mm² Jx = 71563 mm⁴ Wx = 3384 mm³
Jx total = 123583 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Janela de correr 4 folhas



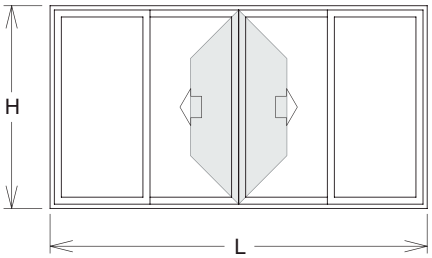


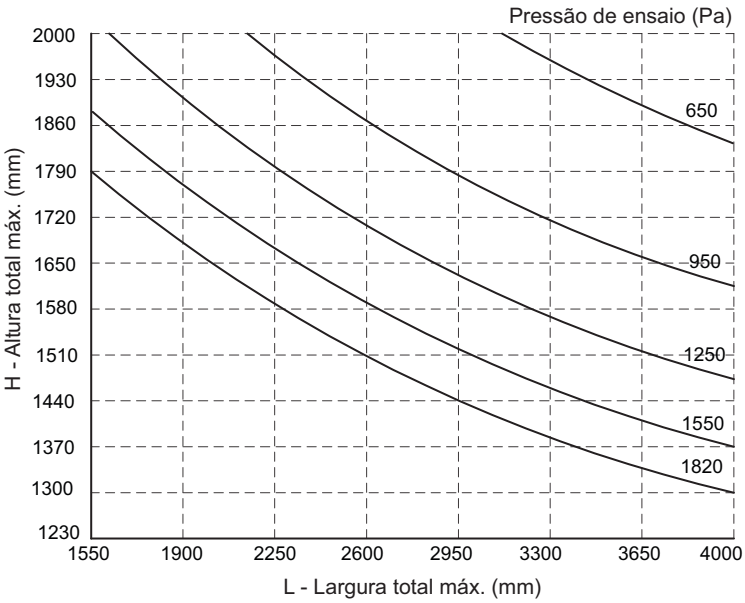


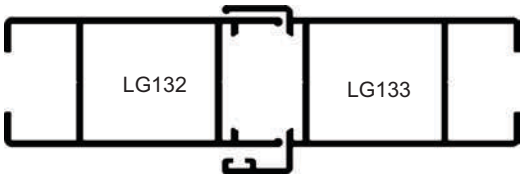
Área = 372 mm² Jx = 121590 mm⁴ Wx = 3270 mm³	Área = 412 mm² Jx = 147745 mm⁴ Wx = 3813 mm³
Jx total = 269335 mm⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Janela de correr 4 folhas



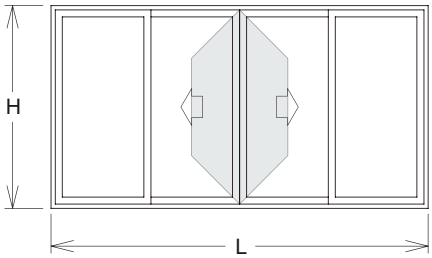


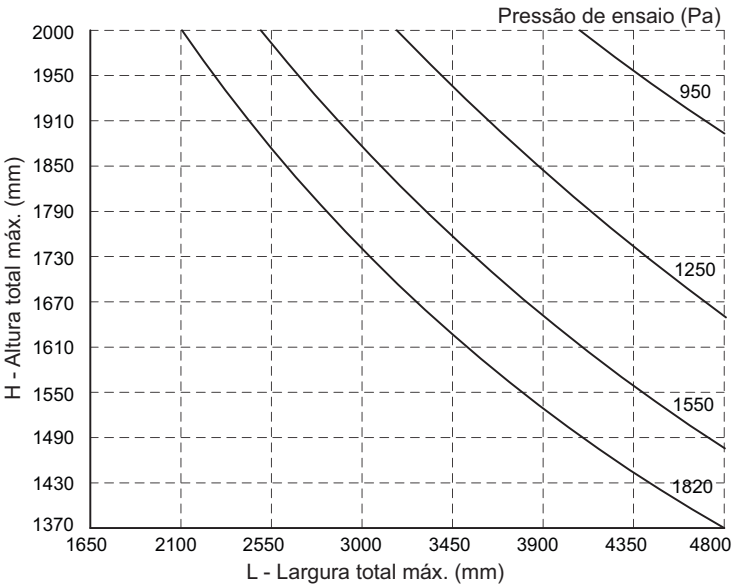


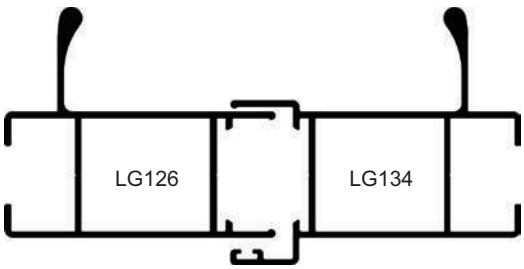
Área = 310 mm² Jx = 55598 mm⁴ Wx = 3475 mm³	Área = 345 mm² Jx = 74361 mm⁴ Wx = 3549 mm³
Jx total = 129959 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Janela de correr 4 folhas



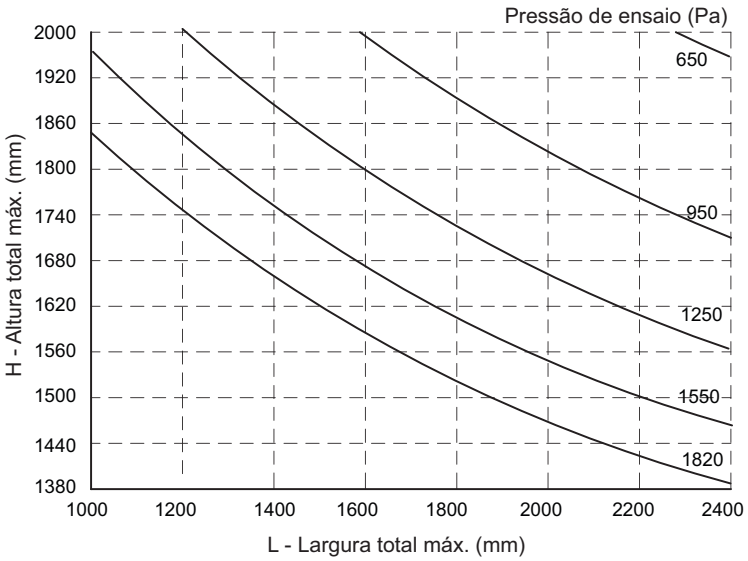


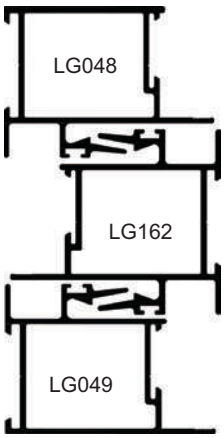


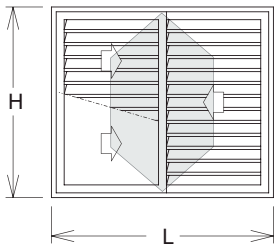
Área = 394 mm² Jx = 122195 mm⁴ Wx = 3372 mm³	Área = 431 mm² Jx = 147159 mm⁴ Wx = 3920 mm³
Jx total = 269354 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Janela de correr 3 folhas
Veneziana







Área = 357 mm²
Jx = 77461 mm⁴
Wx = 3588 mm³

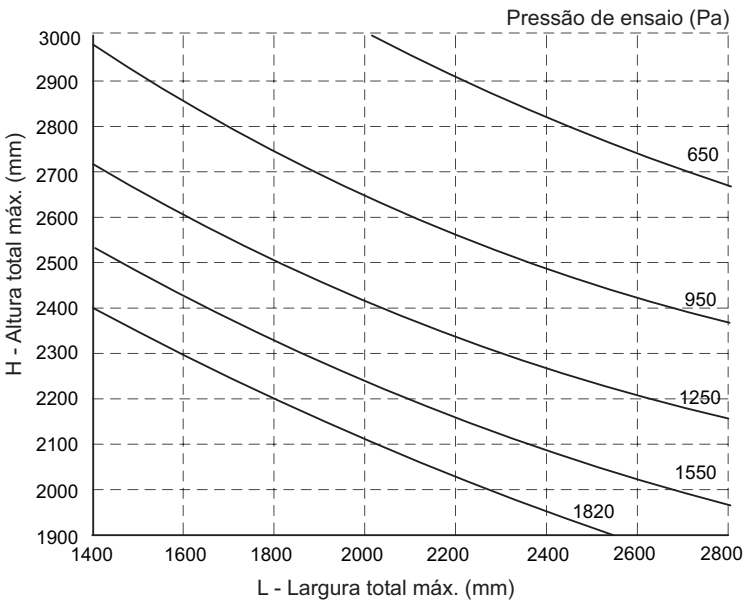
Área = 396 mm²
Jx = 109354 mm⁴
Wx = 4136 mm³

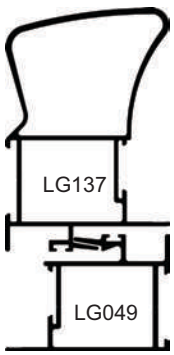
Área = 335 mm²
Jx = 73331 mm⁴
Wx = 3305 mm³

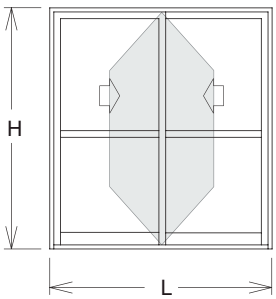
Jx total = 186815 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







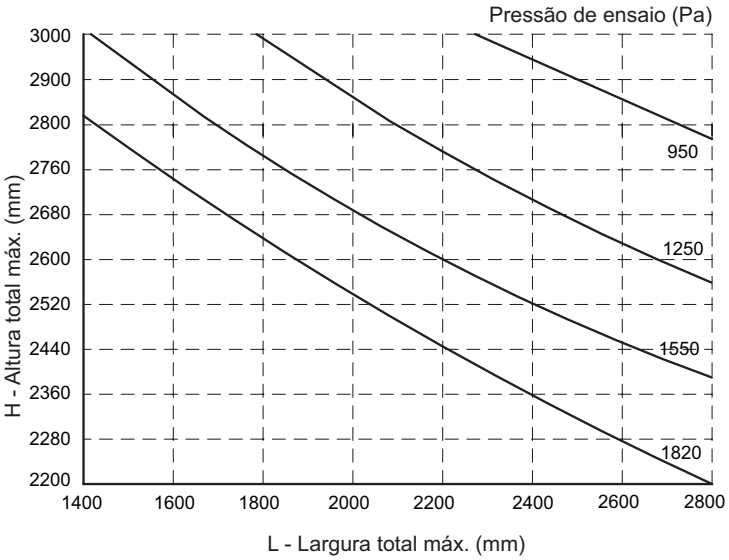
Área = 582 mm²
Jx = 494246 mm⁴
Wx = 11362 mm³

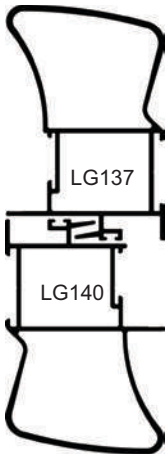
Área = 335 mm²
Jx = 73331 mm⁴
Wx = 3305 mm³

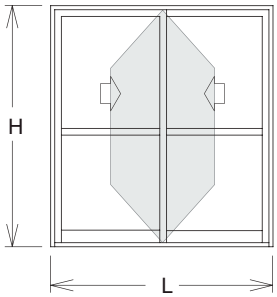
Jx total = 567577 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







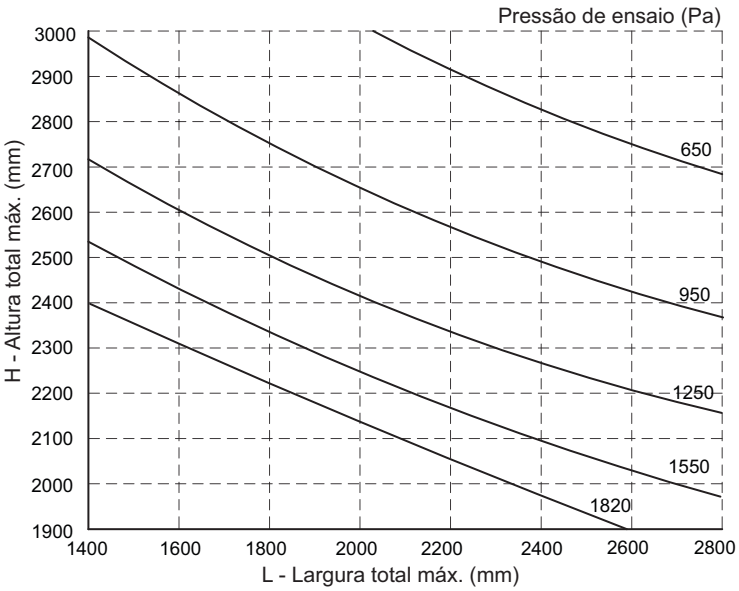
Área = 582 mm²
Jx = 494246 mm⁴
Wx = 11362 mm³

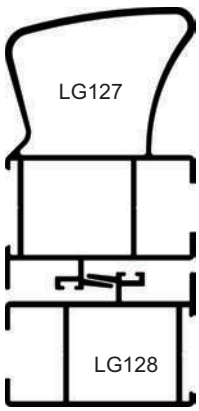
Área = 583 mm²
Jx = 469948 mm⁴
Wx = 10530 mm³

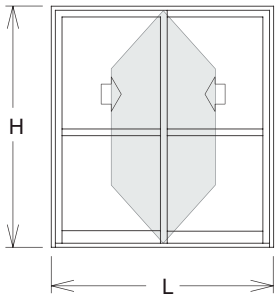
Jx total = 964194 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







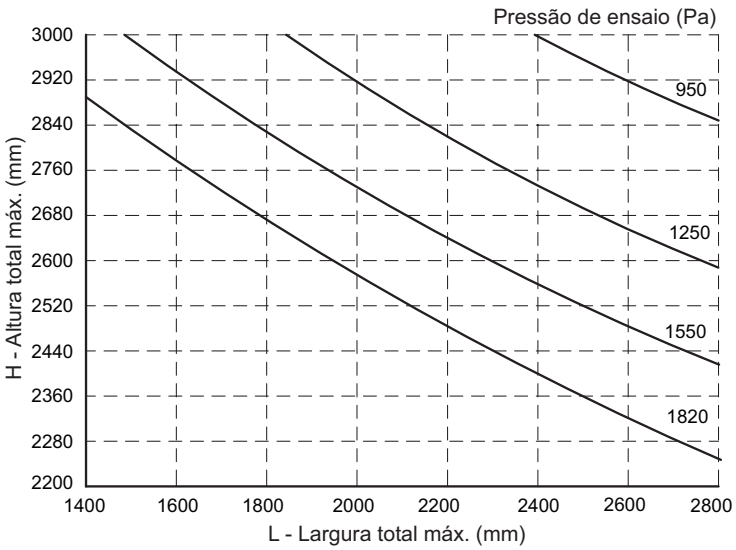
Área = 611 mm²
Jx = 498426 mm⁴
Wx = 11469 mm³

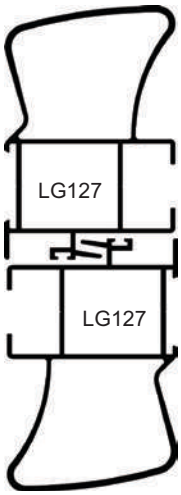
Área = 351 mm²
Jx = 73781 mm⁴
Wx = 3492 mm³

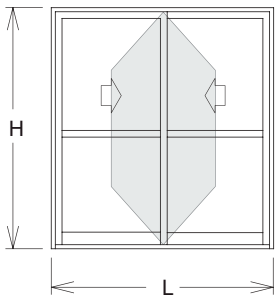
Jx total = 572207 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







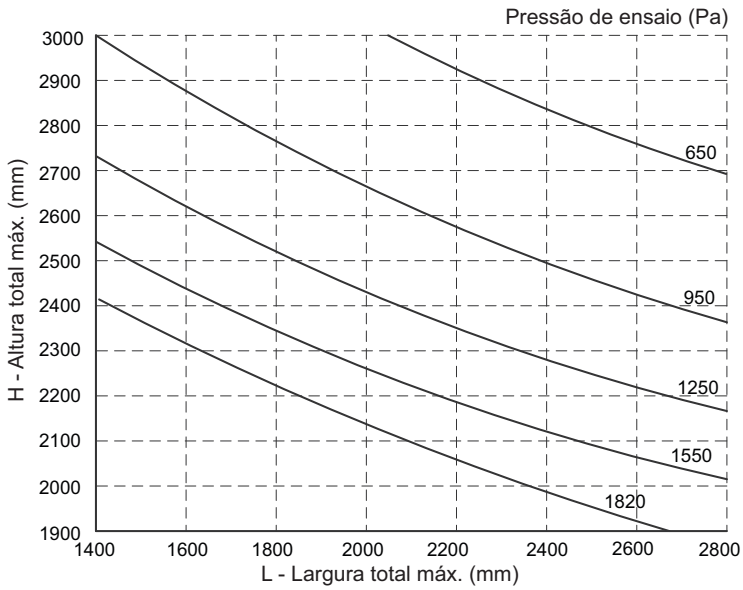
Área = 611 mm²
Jx = 498426 mm⁴
Wx = 11469 mm³

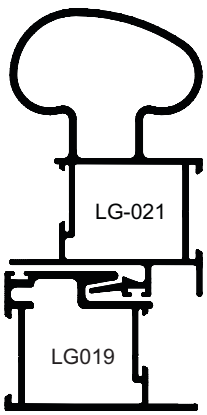
Área = 611 mm²
Jx = 498426 mm⁴
Wx = 11469 mm³

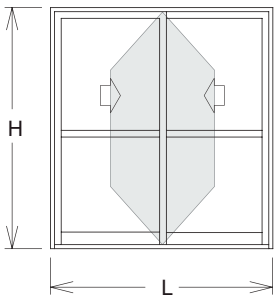
Jx total = 996852 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







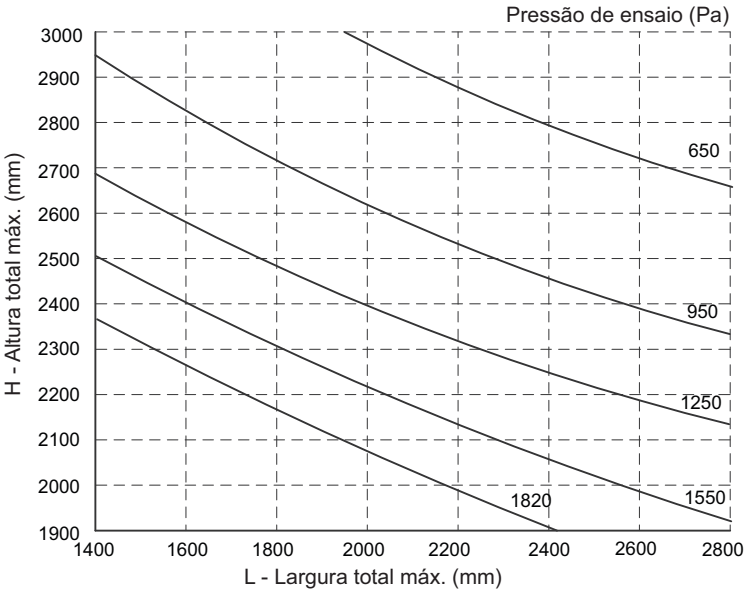
Área = 639 mm²
Jx = 475344 mm⁴
Wx = 10708 mm³

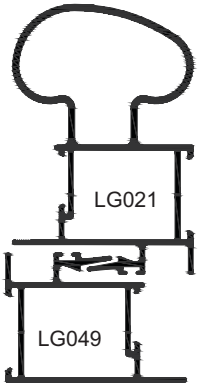
Área = 398 mm²
Jx = 101970 mm⁴
Wx = 4821 mm³

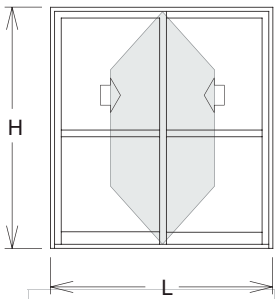
Jx total = 577314 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)

Porta de correr 2 folhas







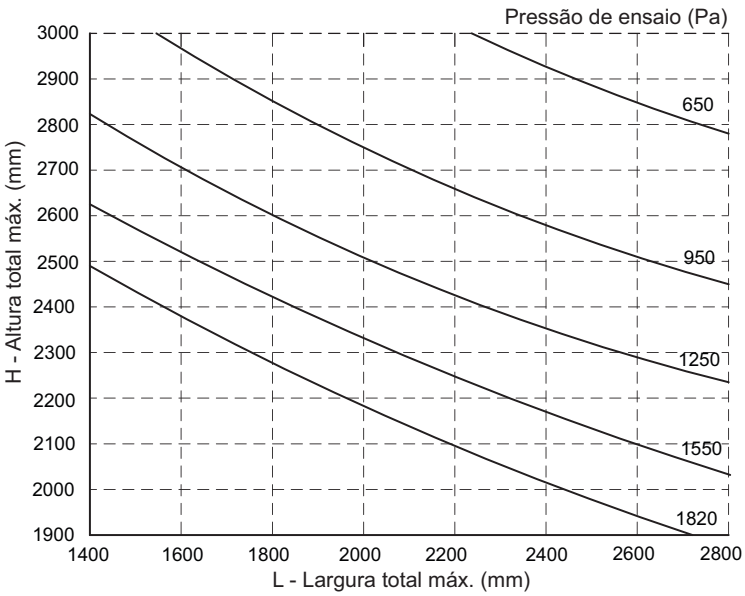
Área = 639 mm²
Jx = 475344 mm⁴
Wx = 10708 mm³

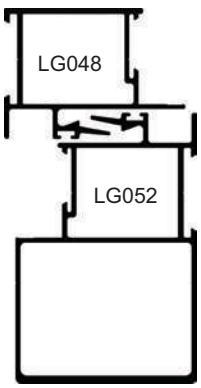
Área = 335 mm²
Jx = 73331 mm⁴
Wx = 3305 mm³

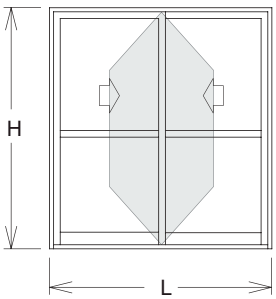
Jx total = 548675 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







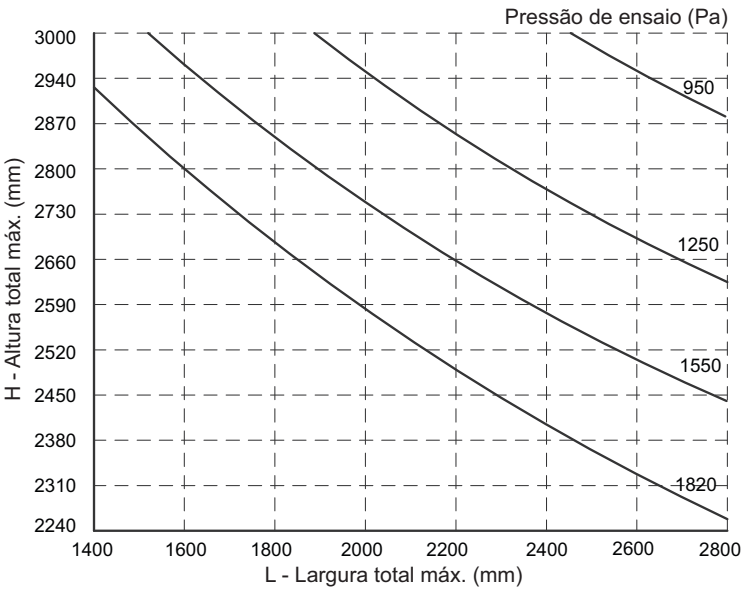
Área = 357 mm²
Jx = 77461 mm⁴
Wx = 3588 mm³

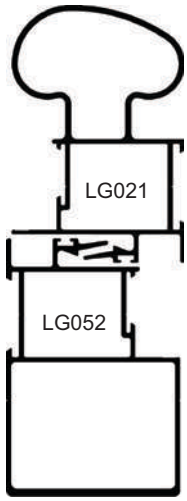
Área = 615 mm²
Jx = 558678 mm⁴
Wx = 12069 mm³

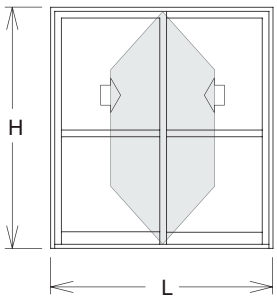
Jx total = 636139 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







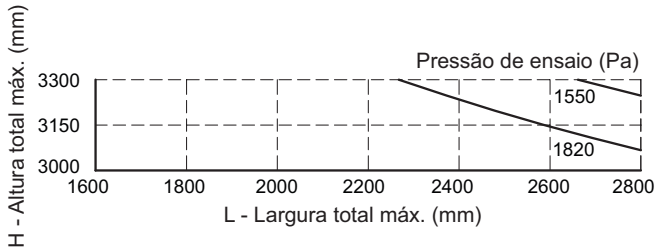
Área = 639 mm²
Jx = 475344 mm⁴
Wx = 10708 mm³

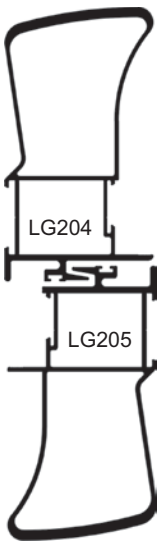
Área = 615 mm²
Jx = 558678 mm⁴
Wx = 12069 mm³

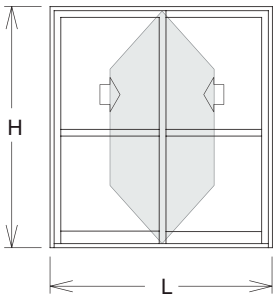
Jx total = 1034022 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 2 folhas







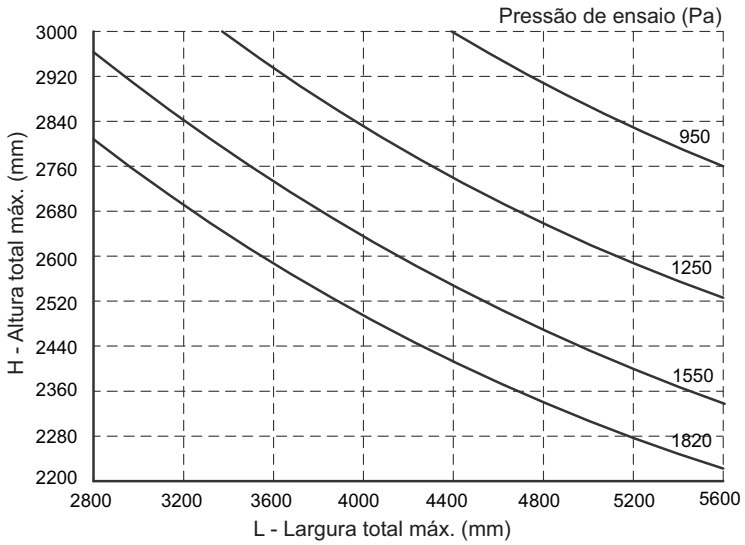
Área = 819 mm²
Jx = 1236570 mm⁴
Wx = 22690 mm³

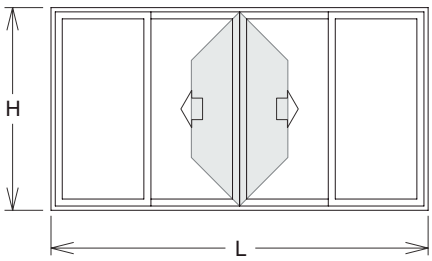
Área = 809 mm²
Jx = 1173920 mm⁴
Wx = 21046 mm³

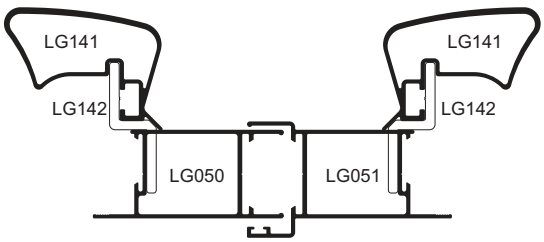
Jx total = 2410490 mm ⁴

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 4 folhas



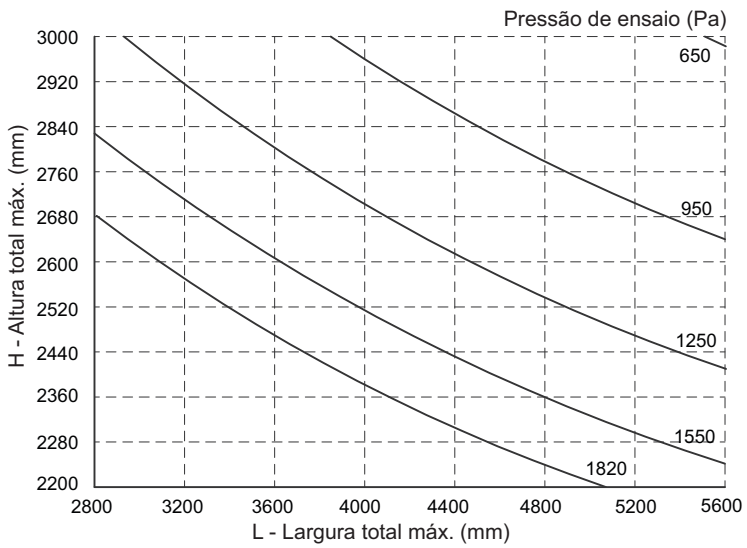


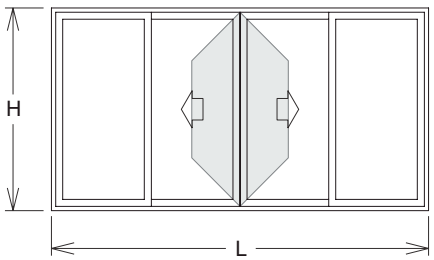


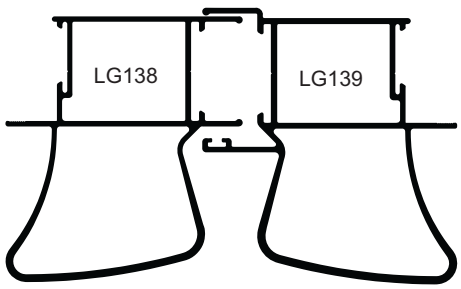
Área = 648 mm² Jx = 429605 mm⁴ Wx = 11072 mm³	Área = 684 mm² Jx = 485204 mm⁴ Wx = 11083 mm³
Jx total = 914809 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 4 folhas



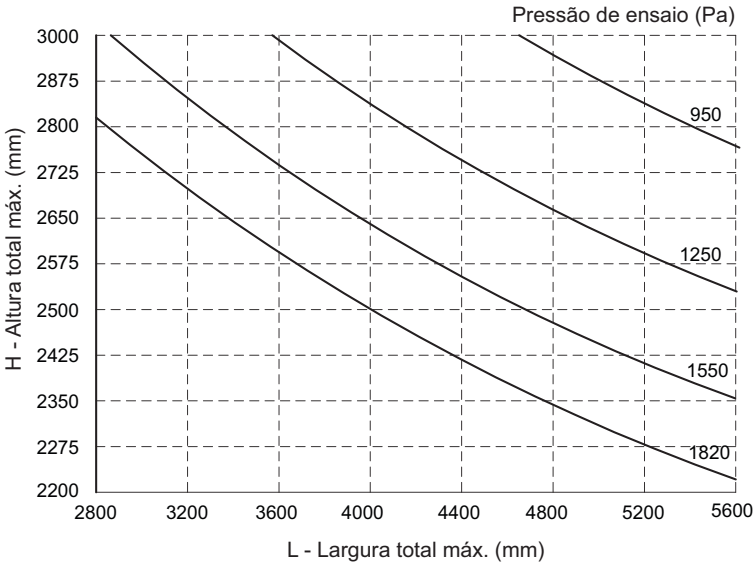


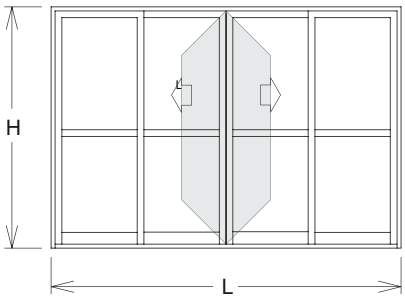


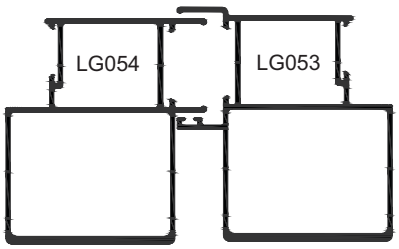
Área = 560 mm² Jx = 388486 mm⁴ Wx = 10020 mm³	Área = 593 mm² Jx = 406962 mm⁴ Wx = 10398 mm³
Jx total = 795448 mm ⁴	

Flecha Admissível = H / 175

Porta de correr 4 folhas



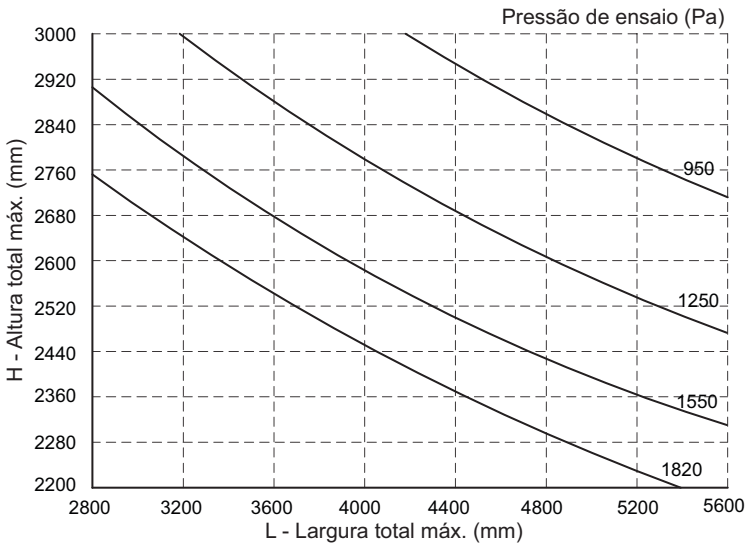


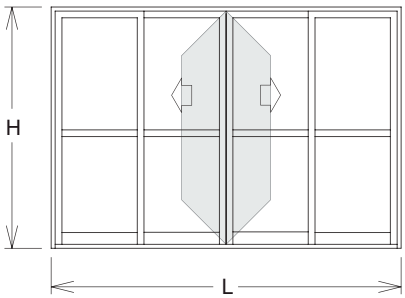


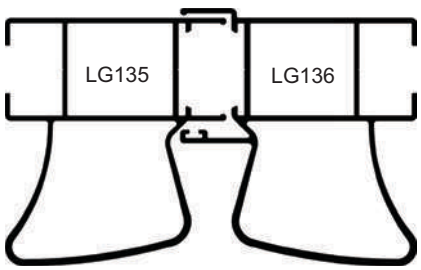
Área = 581 mm² Jx = 449800 mm⁴ Wx = 11128 mm³	Área = 609 mm² Jx = 471745 mm⁴ Wx = 11032 mm³
Jx total = 921545 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 4 folhas



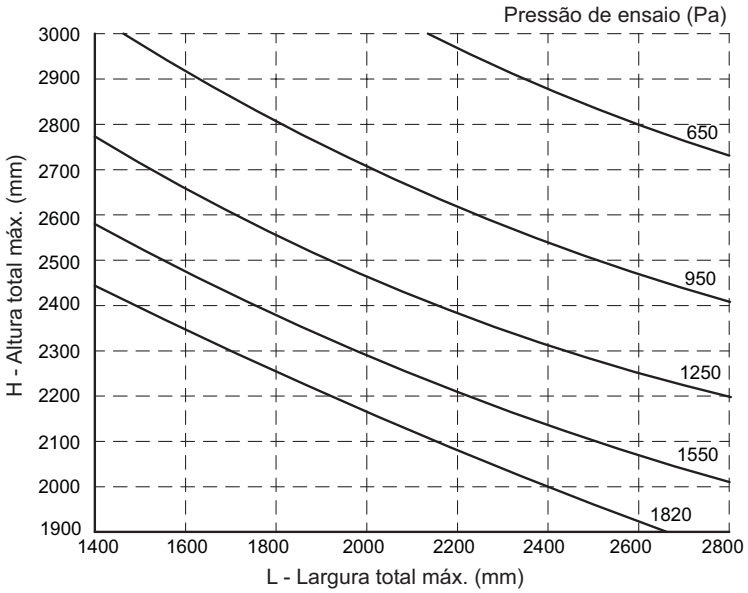


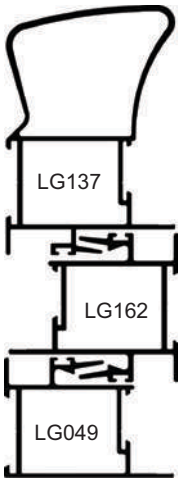


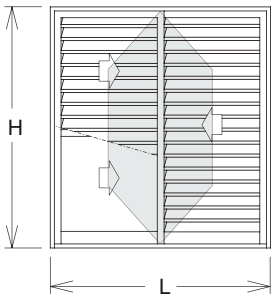
Área = 589 mm² Jx = 422166 mm⁴ Wx = 10468 mm³	Área = 622 mm² Jx = 439682 mm⁴ Wx = 10795 mm³
Jx total = 861848 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Porta de correr 3 folhas
Veneziana

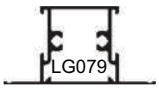




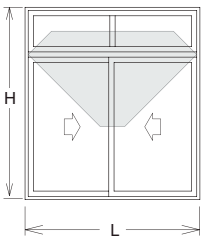


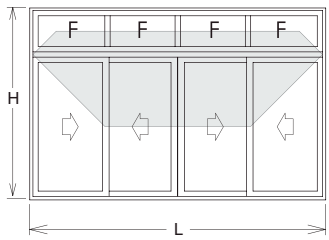
Área = 582 mm²	
Jx = 494246 mm⁴	
Wx = 11362 mm³	
Área = 396 mm²	
Jx = 109354 mm⁴	
Wx = 4136 mm³	
Área = 335 mm²	
Jx = 73331 mm⁴	
Wx = 3305 mm³	
Jx total = 603600 mm ⁴	

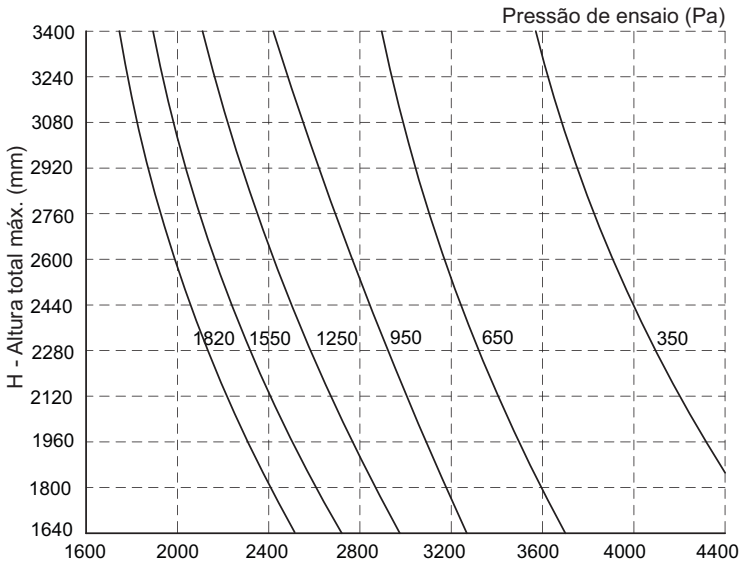
Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175



Nota: Após verificação das curvas de pressão de ensaio (abaixo), para larguras superiores a 2400 mm, utilizar o perfil LG079, para evitar que o próprio peso da bandeira deforme a travessa e prejudique o funcionamento das folhas de correr.



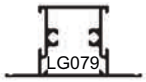




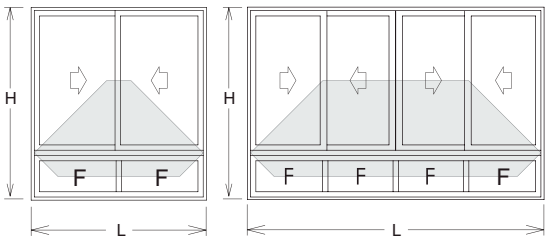
Área = 751 mm²
Jy = 873671 mm⁴
Wy = 16798 mm³

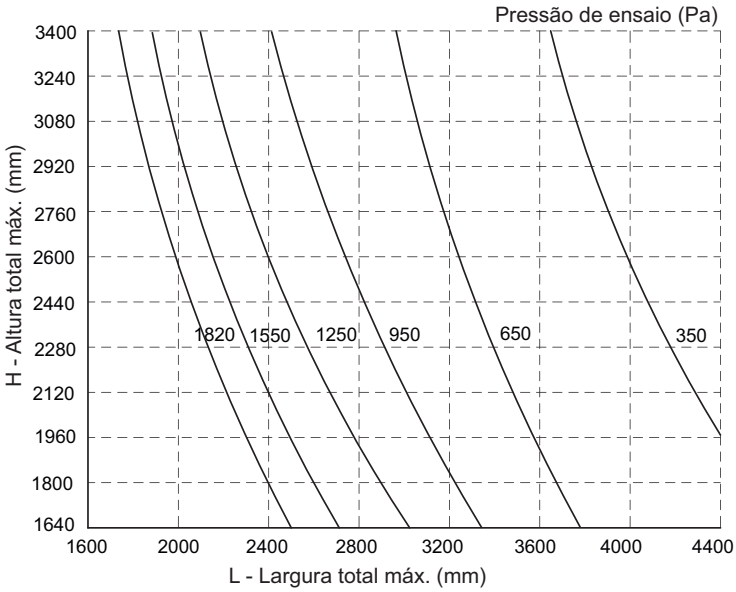
Tensão Admissível = 7 Kg / mm² (liga C0A7 T5) I Flecha Admissível = H / 175

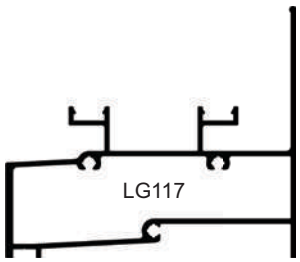
Travessa do peitoril
Porta e Janela de correr 2 e 4 folhas



Nota: Após verificação das curvas de pressão de ensaio (abaixo), para larguras superiores a 2400 mm, utilizar o perfil LG079, para evitar a deformação da travessa do peitoril e prejudicar o funcionamento das folhas de correr.



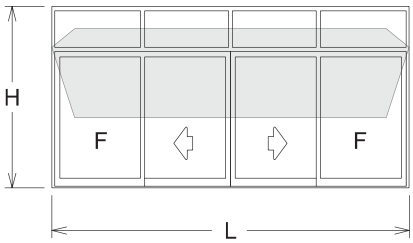


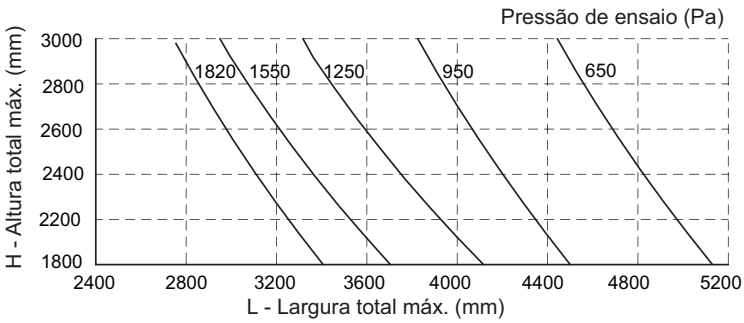


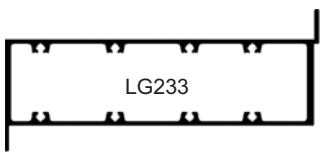
Área = 760 mm²
Jy = 931543 mm⁴
Wy = 16640 mm³

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Travessa







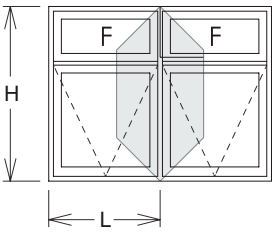
Jy = 2522690 mm⁴
Wy = 33524 mm³

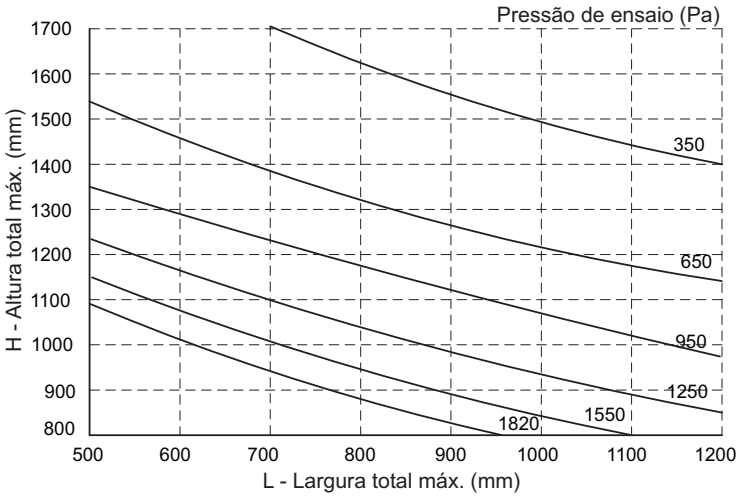
Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

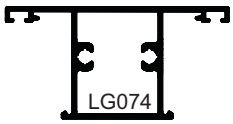
Montante central

Janela Maxim-ar

Observação:
Dimensão máxima da folha = 1200 mm x 1200 mm,
limitada pela resistência dos perfis de folha







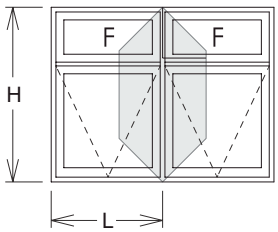
Área = 280 mm²
Jx = 37854 mm⁴
Wx = 1935 mm³

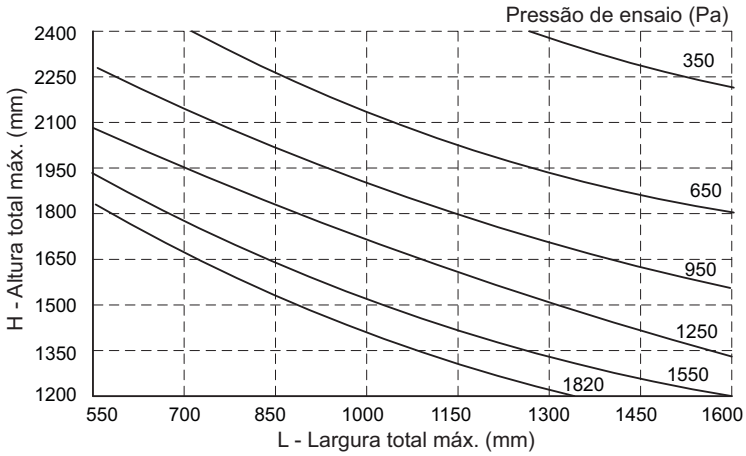
Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

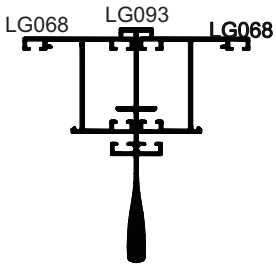
Junção de módulos

Janela Maxim-ar

Observação:
Dimensão máxima da folha = 1200 mm x 1200 mm,
limitada pela resistência dos perfis de folha



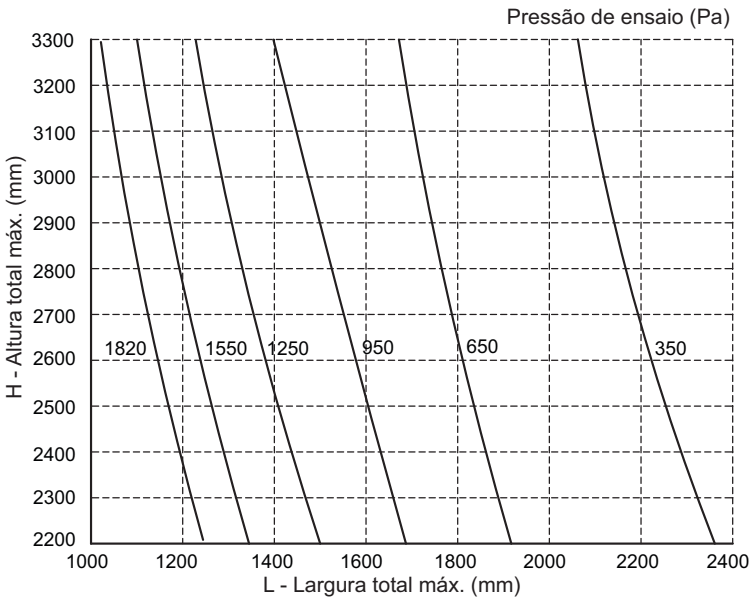


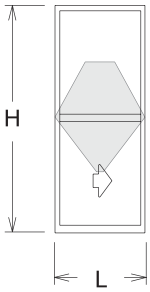


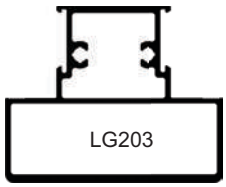
Área = 149 mm² Jx = 24853 mm⁴ Wx = 1303 mm³	Área = 260 mm² Jx = 149811 mm⁴ Wx = 3700 mm³
Jx total = 199517 mm ⁴	

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Travessa porta de correr



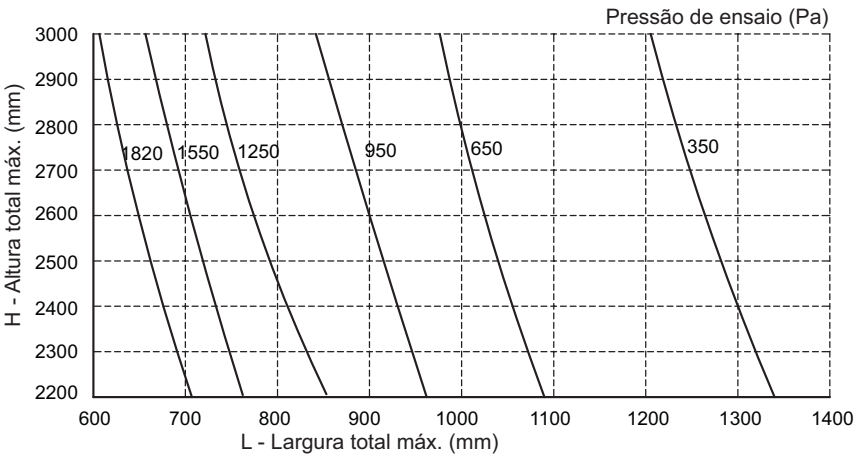


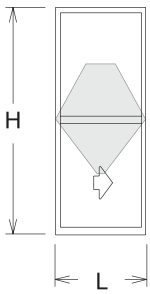


Área = 506 mm²
Jx = 162725 mm⁴
Wx = 5520 mm³

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Travessa porta de correr

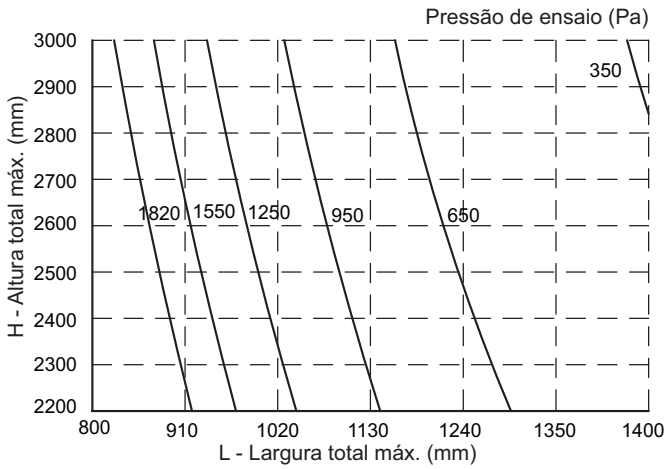


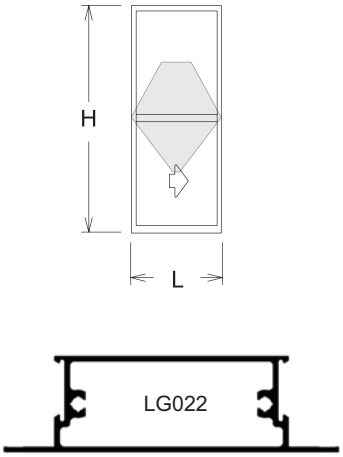


Área = 280 mm²
Jx = 29772 mm⁴
Wx = 1784 mm³

Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175

Travessa porta de correr





Área = 392 mm²
Jx = 50361 mm⁴
Wx = 4020 mm³

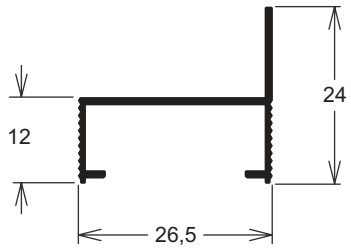
Tensão Admissível = 7 Kg / mm² (liga C0A7 T5)
Flecha Admissível = H / 175


IV
GOLD®

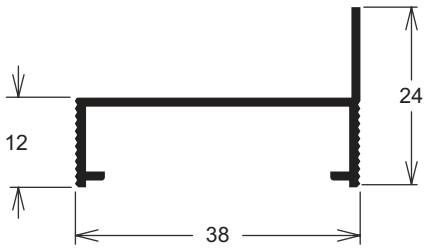
Índice de Perfis

CONTRAMARCO

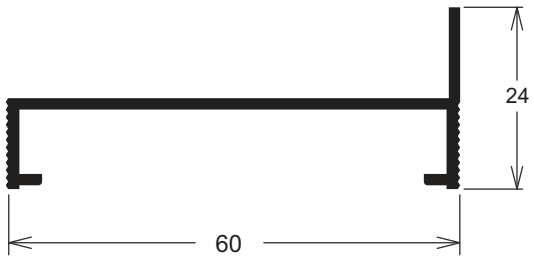
CM200 0,198 kg/m



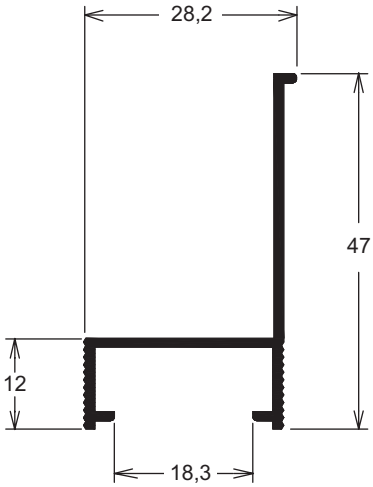
CM060 0,276 kg/m



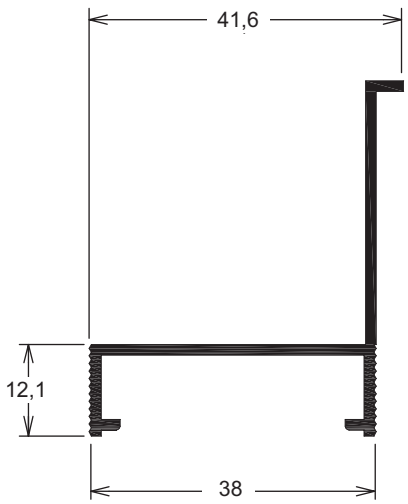
CM174 0,409 kg/m



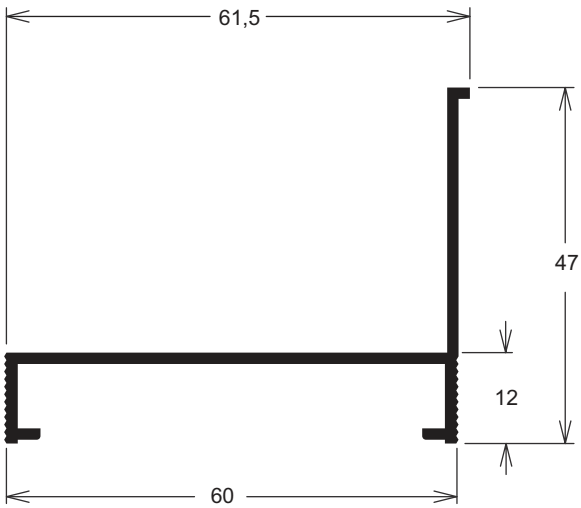
CM151 0,309 kg/m



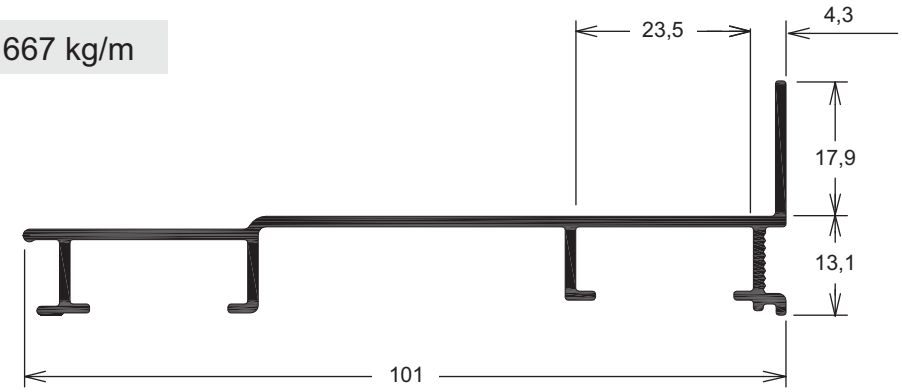
CM098 0,312 kg/m



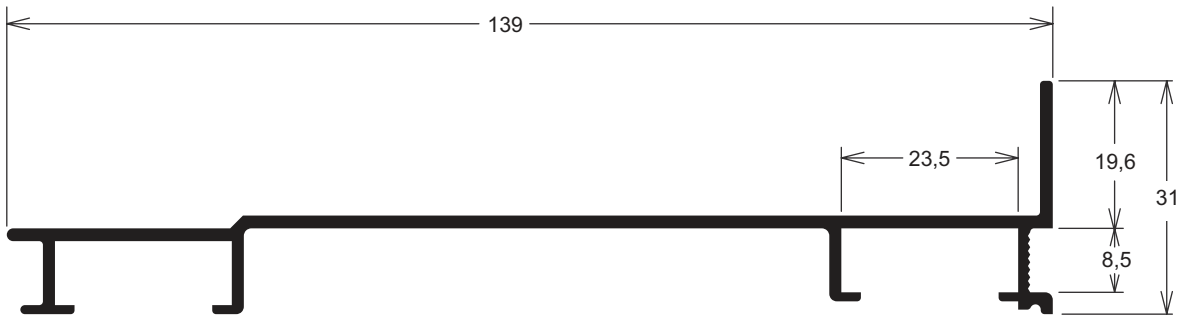
CM173 0,509 kg/m



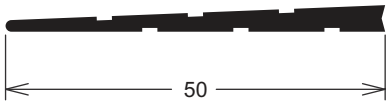
CM218 0,667 kg/m



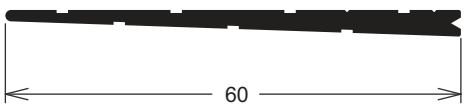
CM168 0,957 kg/m



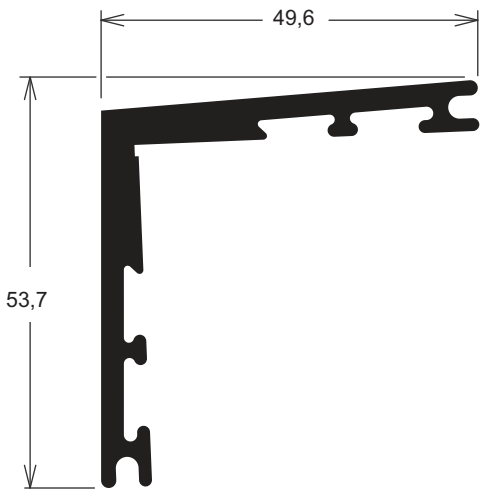
CL011 0,319 kg/m



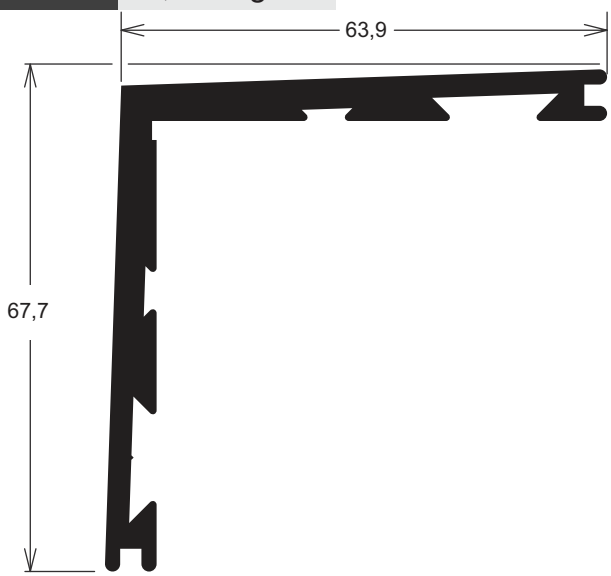
CL010 0,385 kg/m



CL006 1,112 kg/m

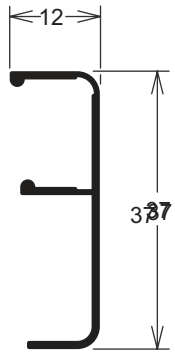


CL009 1,616 kg/m

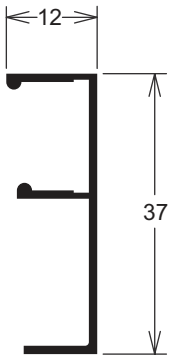


REMATE

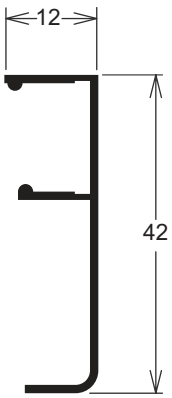
RM002 0,195 kg/m



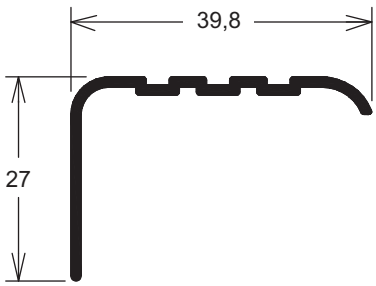
RM005 0,202 kg/m



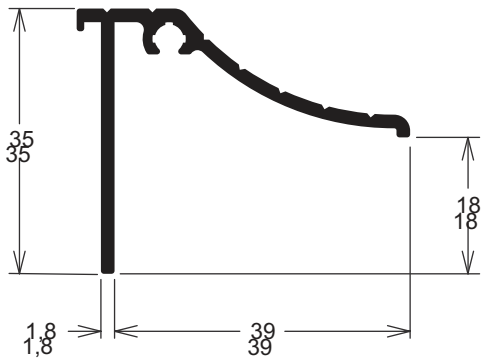
RM008 0,214 kg/m



RM018 0,267 kg/m

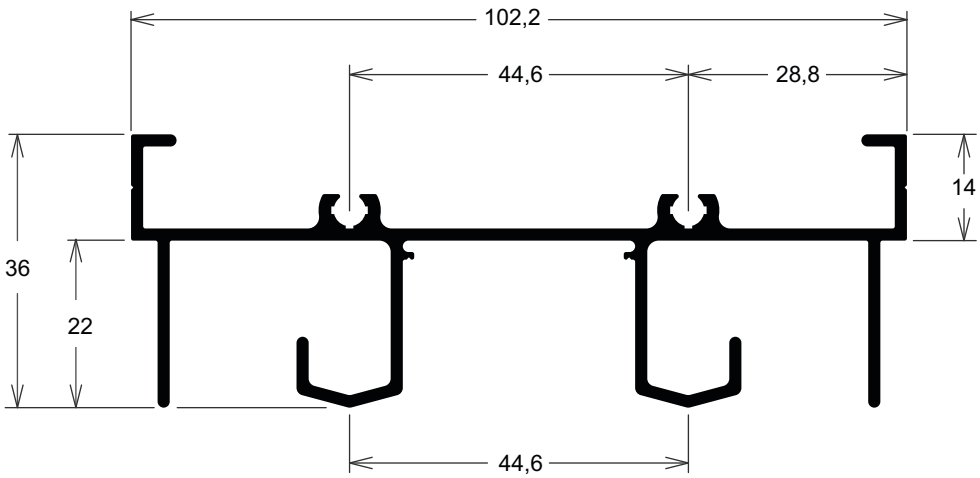


RM016 0,431 kg/m

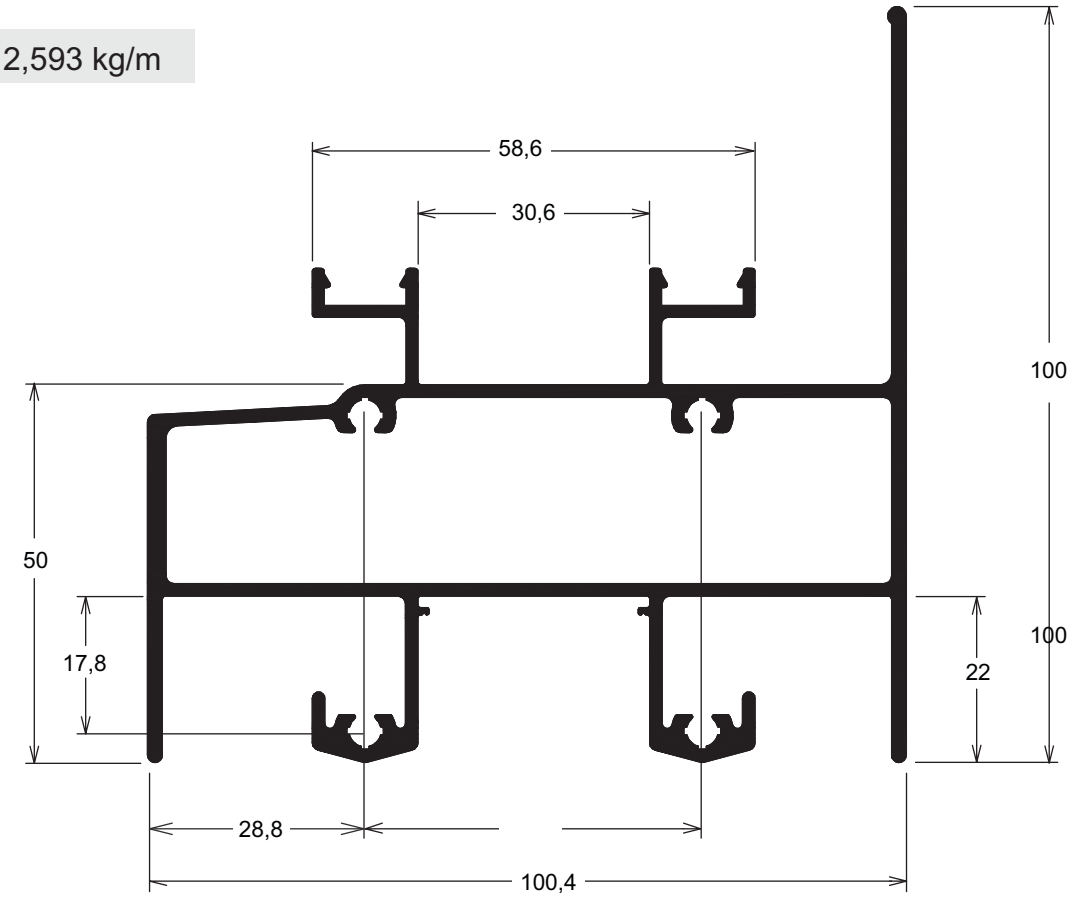


TIPOLOGIA DE CORRER 2 FOLHAS

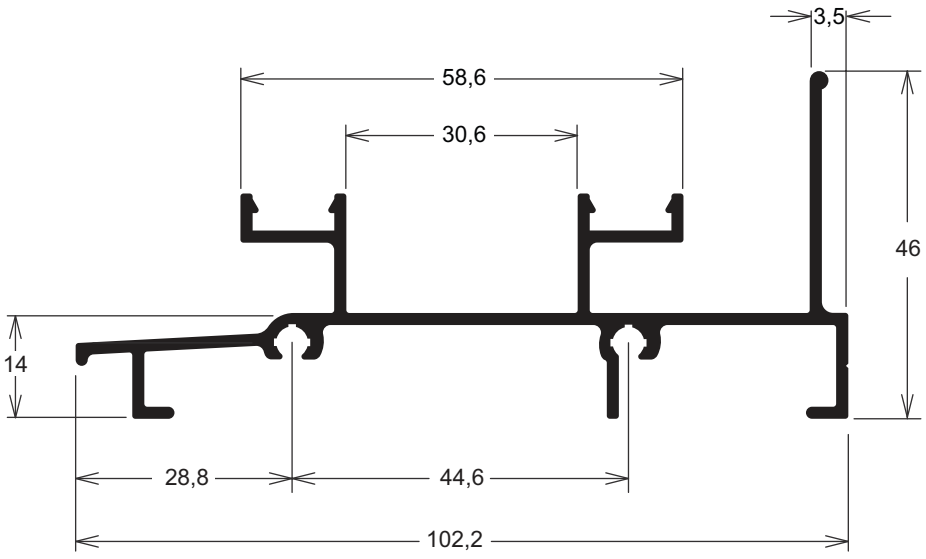
LG044 1,244 kg/m



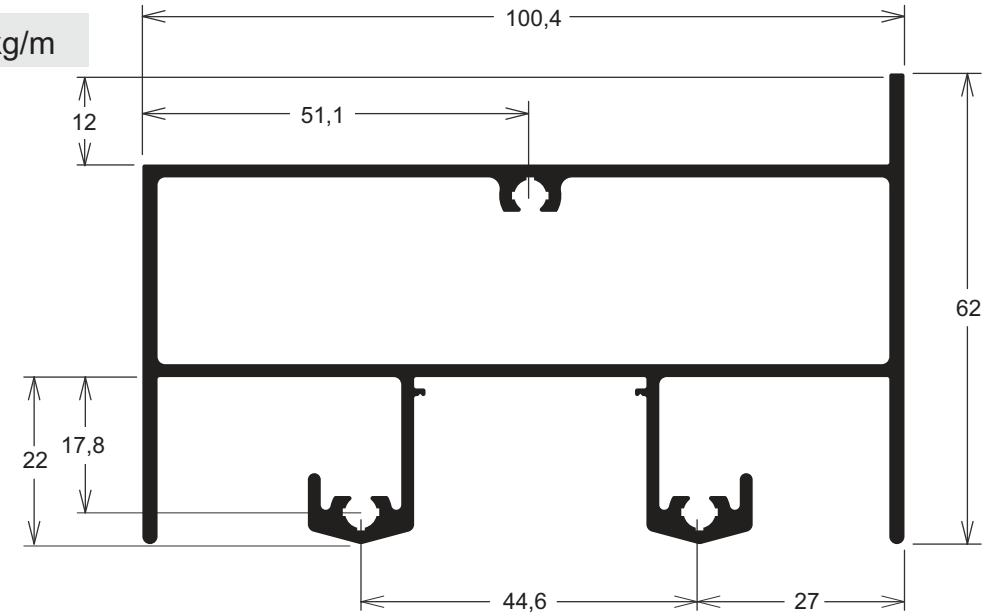
LG208 2,593 kg/m



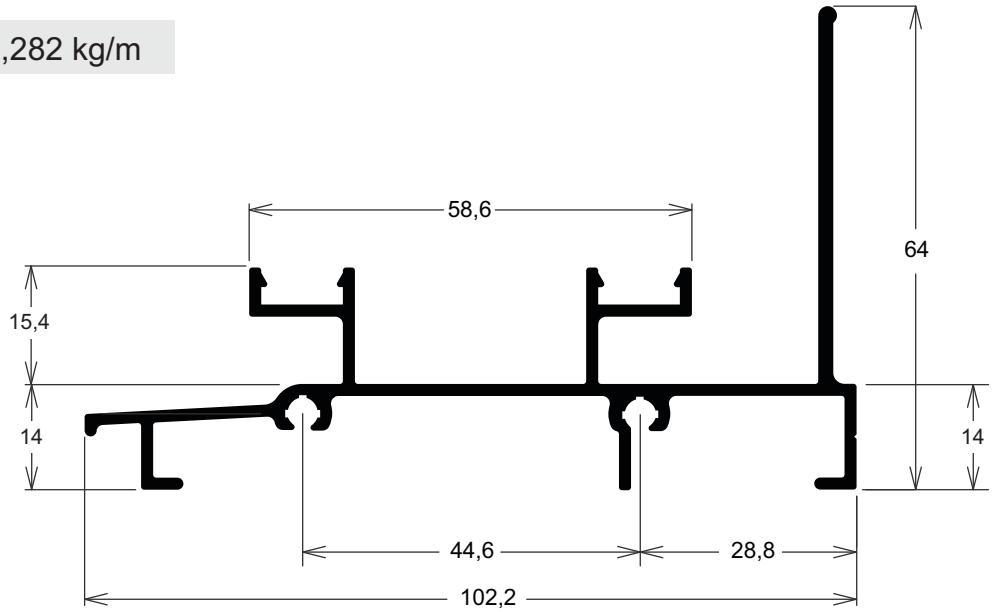
LG159 1,156 kg/m



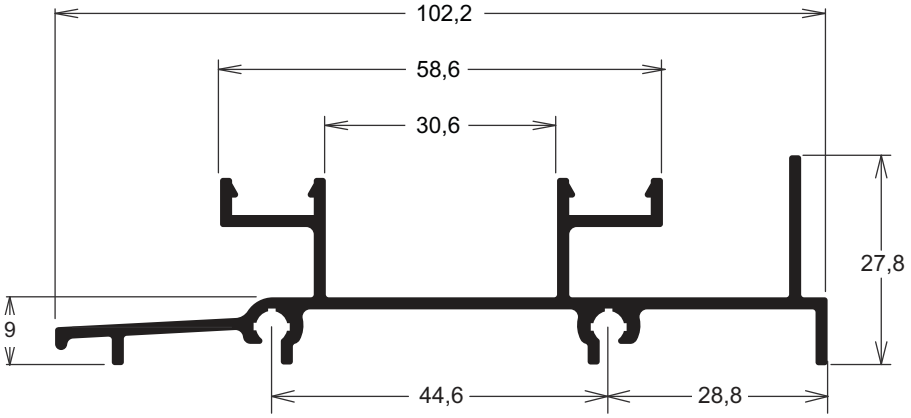
LG004 2,035 kg/m



LG115 1,282 kg/m

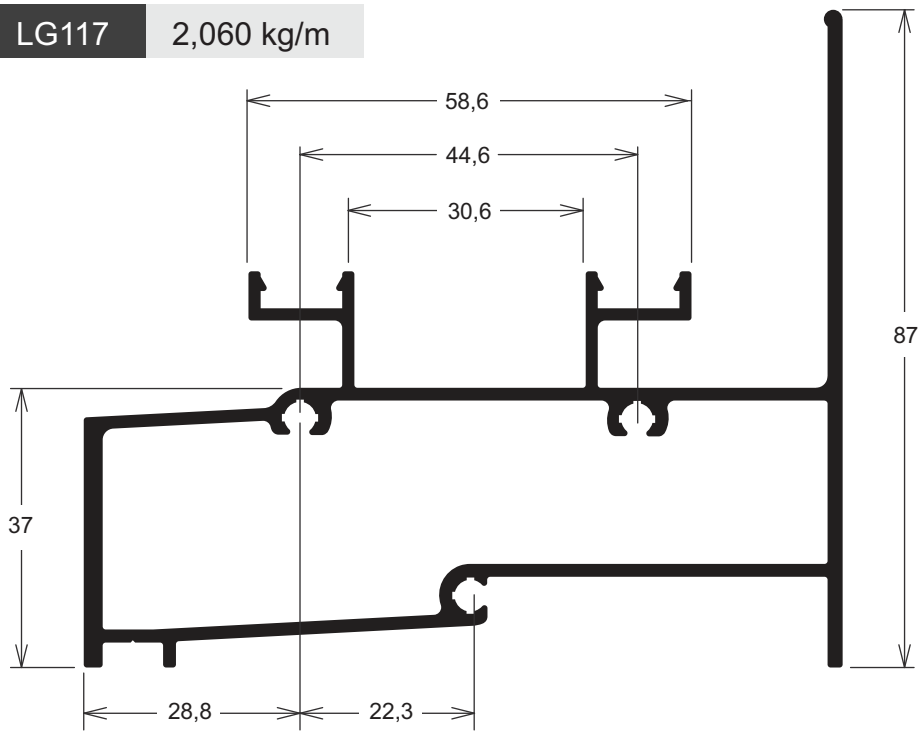


LG125 1,008 kg/m

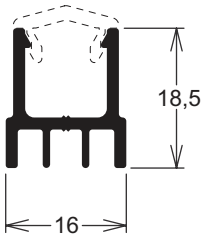


LG111 0,096 kg/m

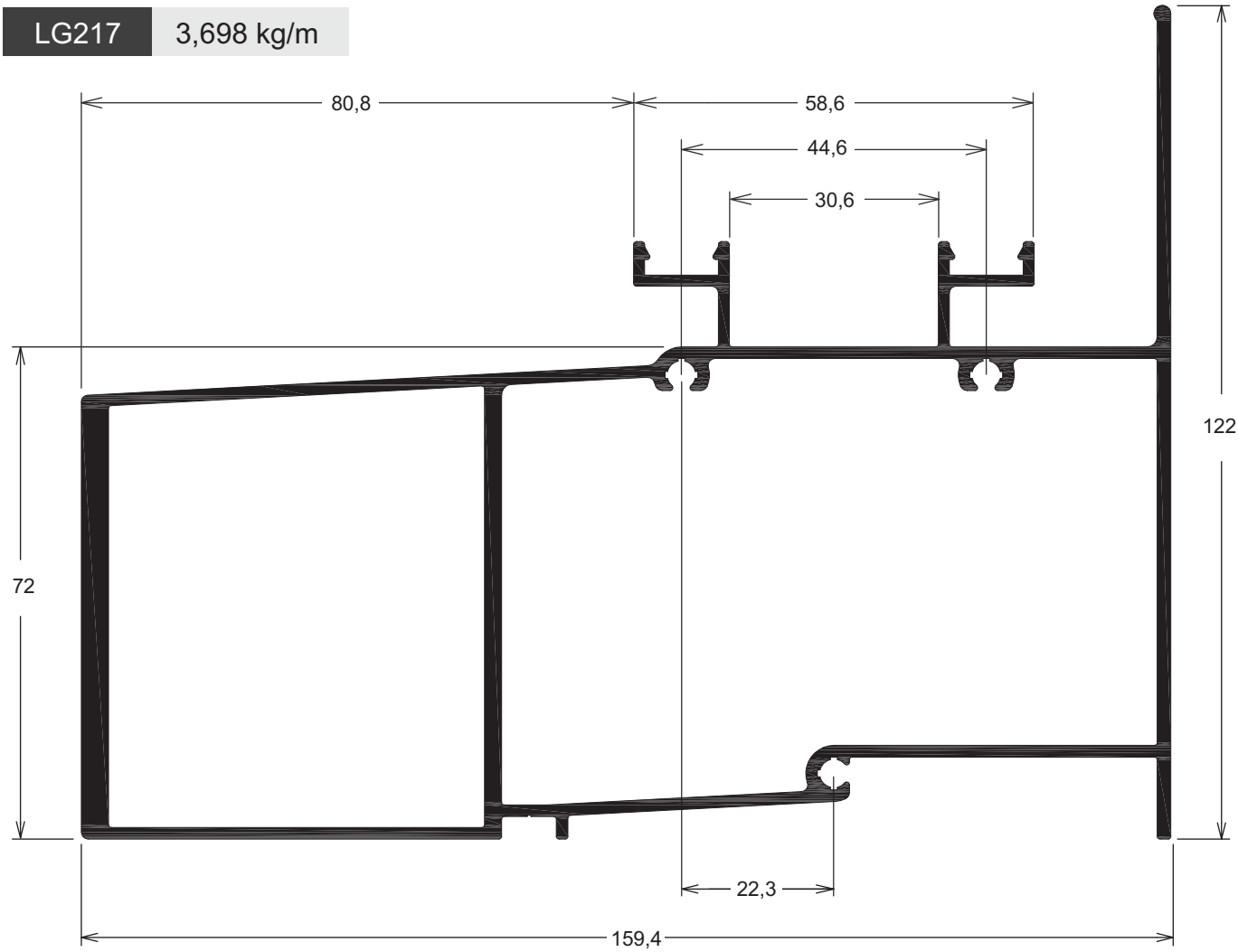
LG117 2,060 kg/m



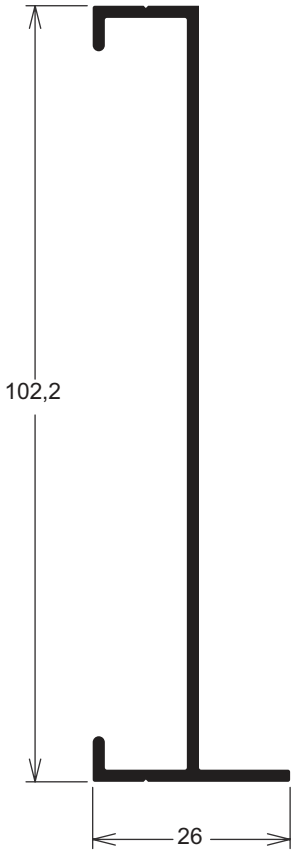
LG157 0,251 kg/m



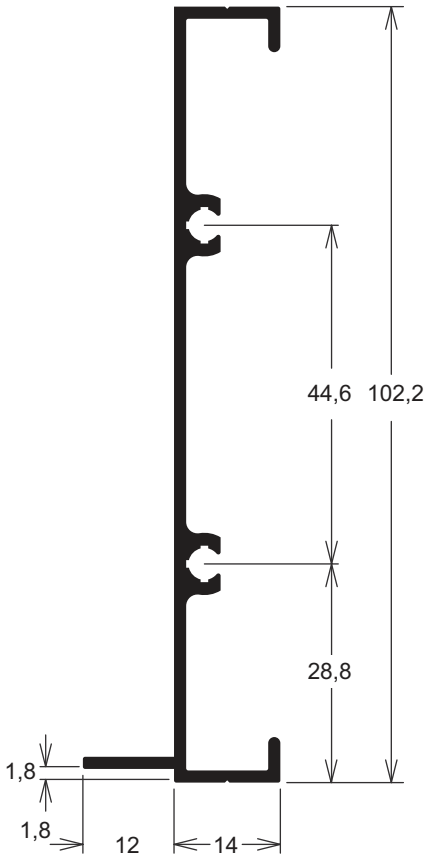
LG217 3,698 kg/m



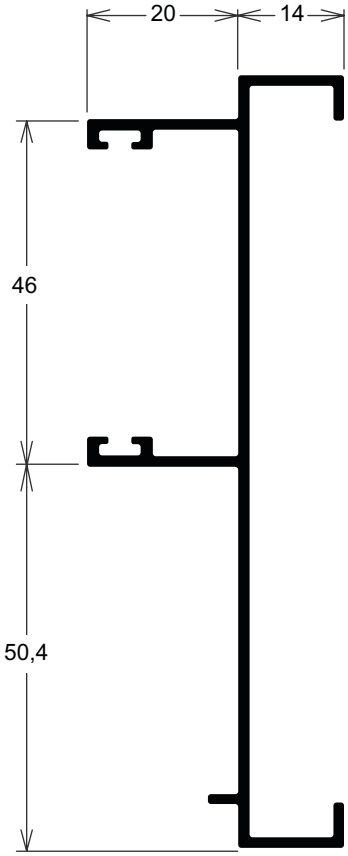
LG002 0,639 kg/m



LG003 0,757 kg/m

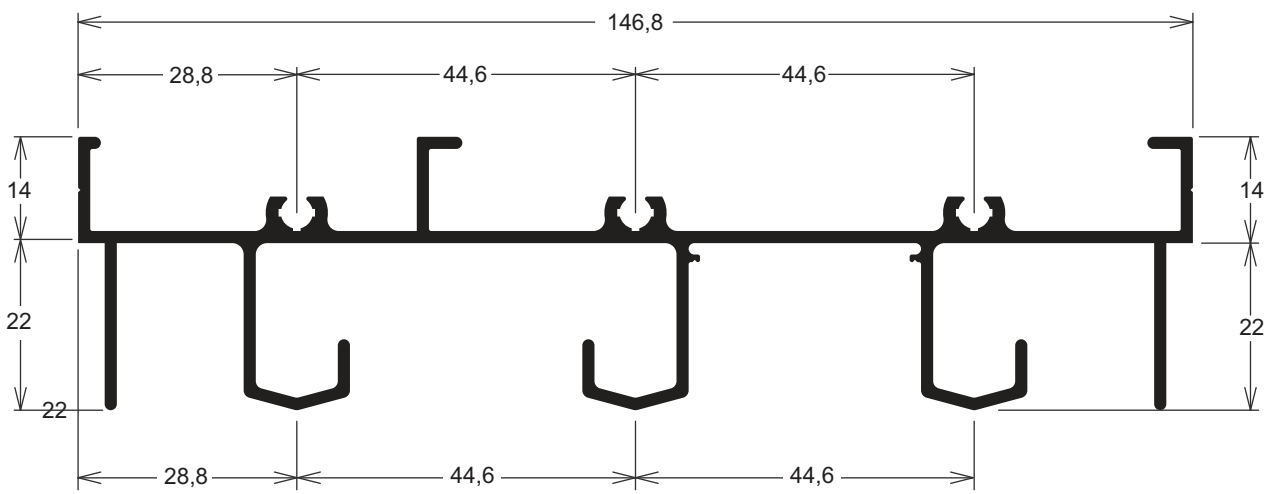


LG124 0,773 kg/m

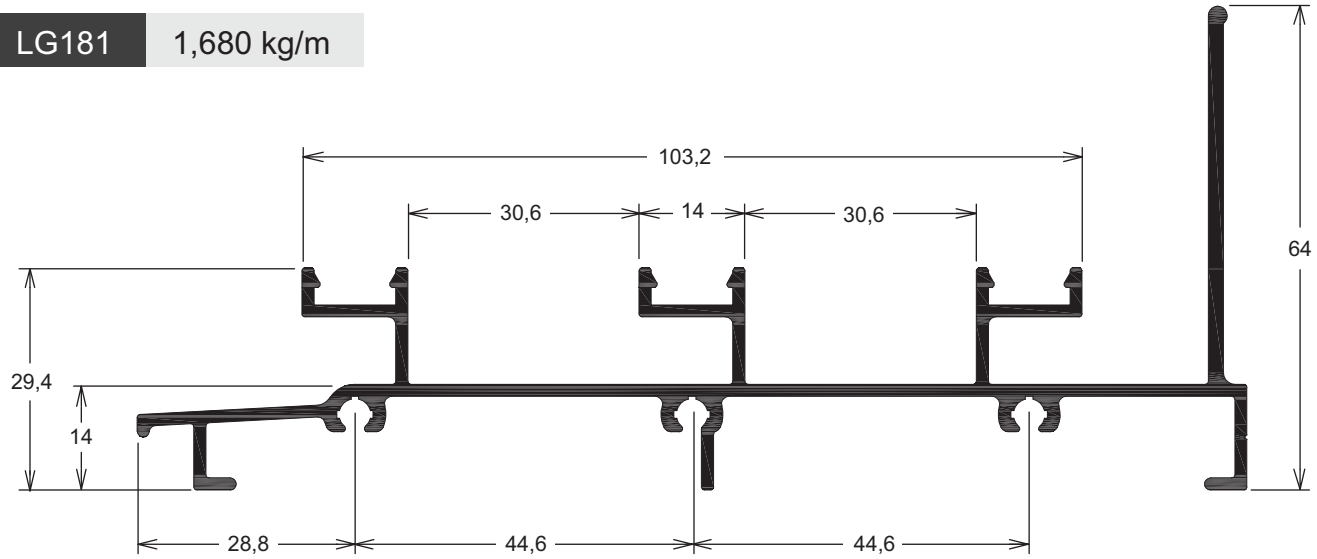


TIPOLOGIA DE CORRER 3 FOLHAS

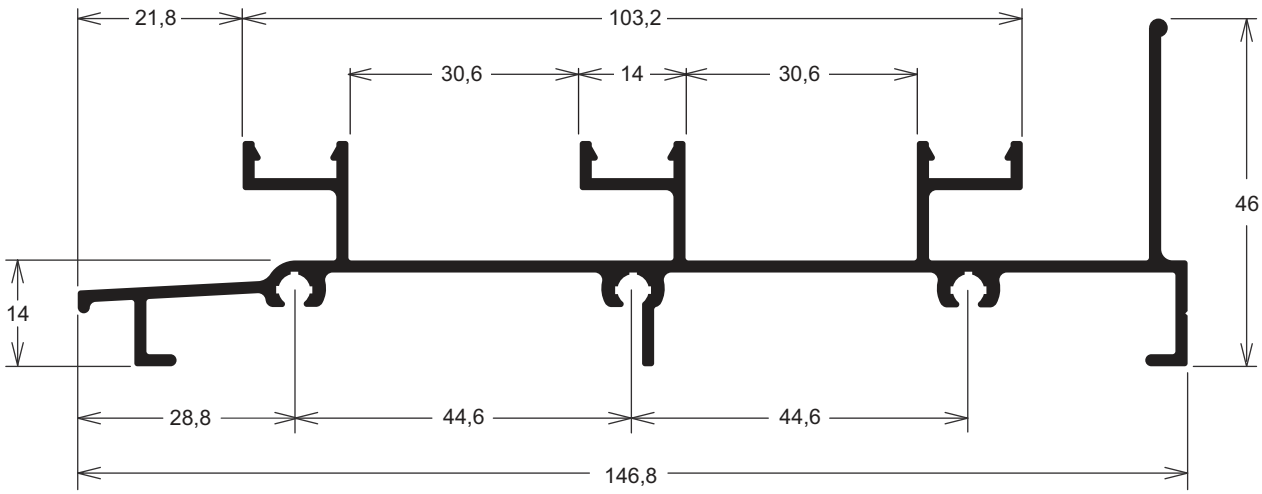
LG062 1,766 kg/m



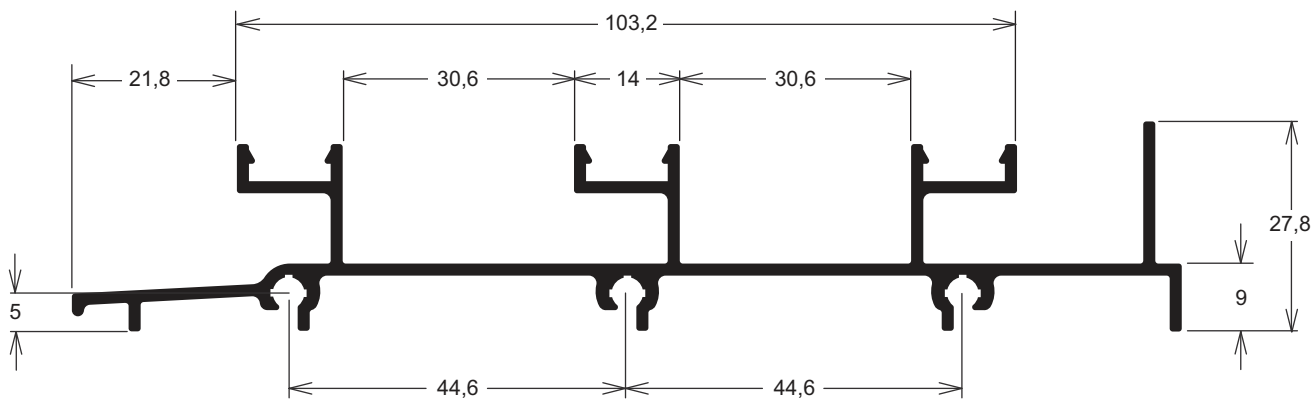
LG181 1,680 kg/m



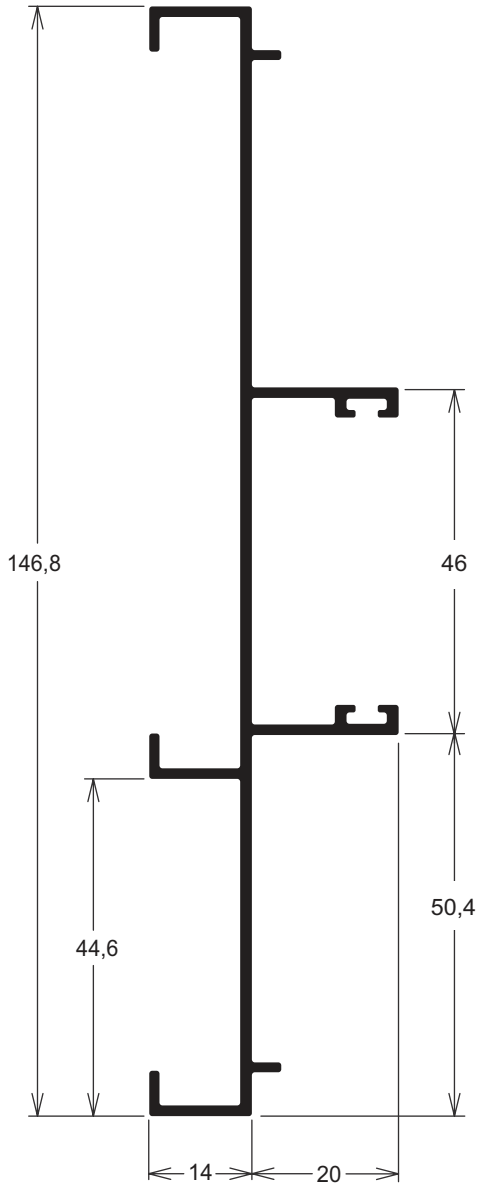
LG116 1,551 kg/m



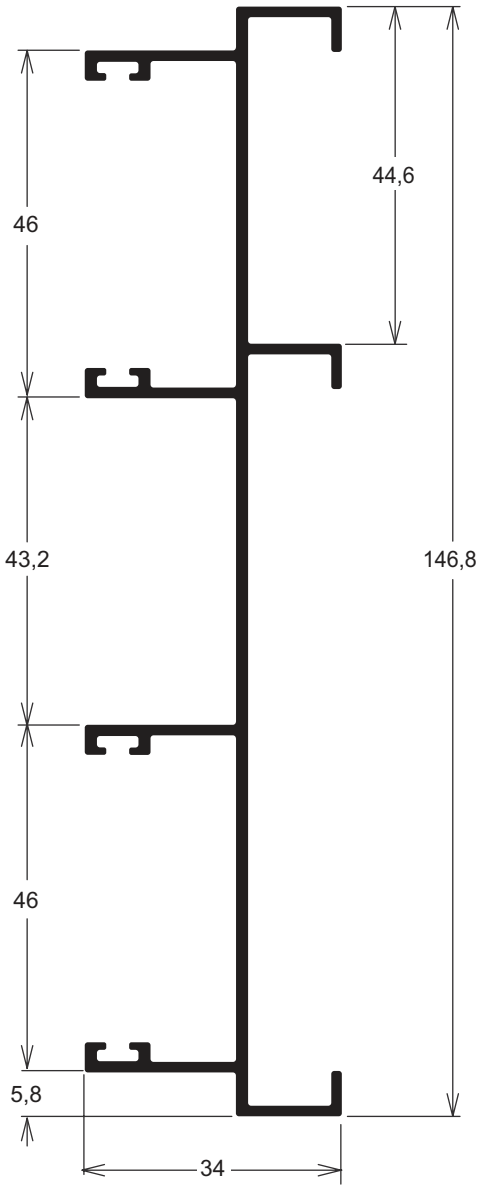
LG143 1,420 kg/m



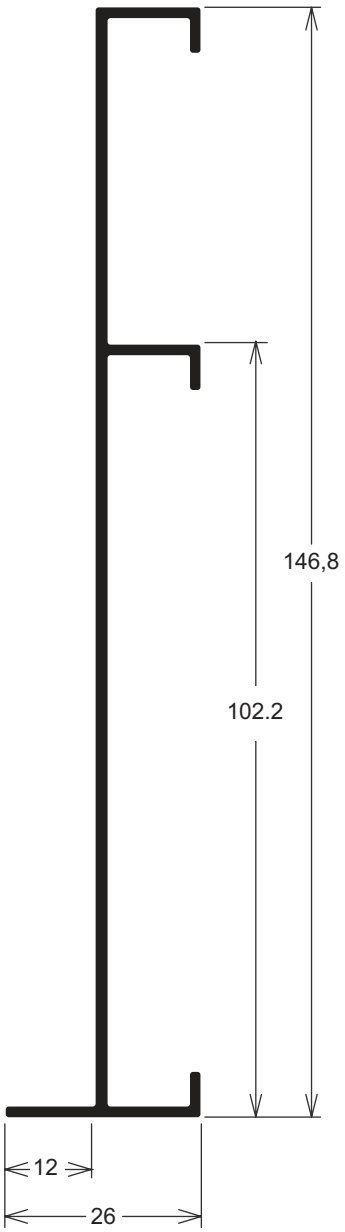
LG144 1,072 kg/m



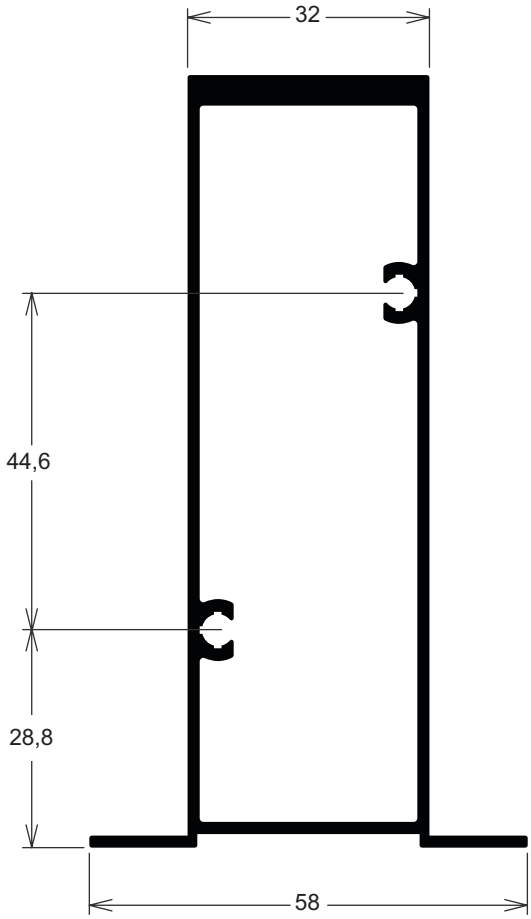
LG145 1,257 kg/m



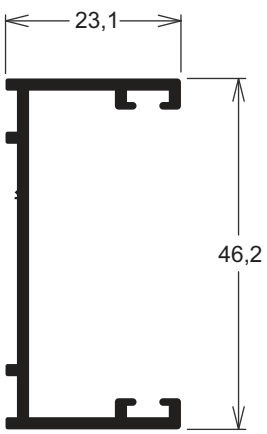
LG158 0,876 kg/m



LG176 1,542 kg/m

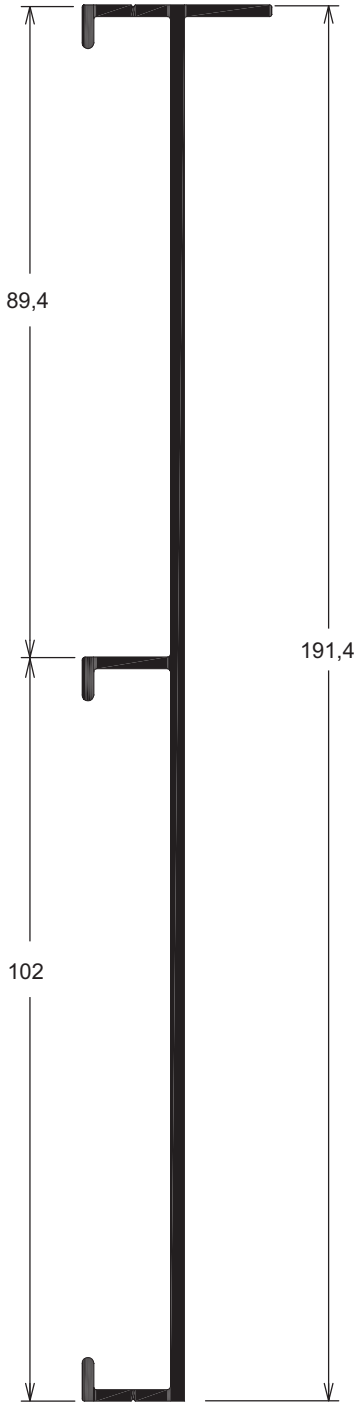


LG028 0,454 kg/m

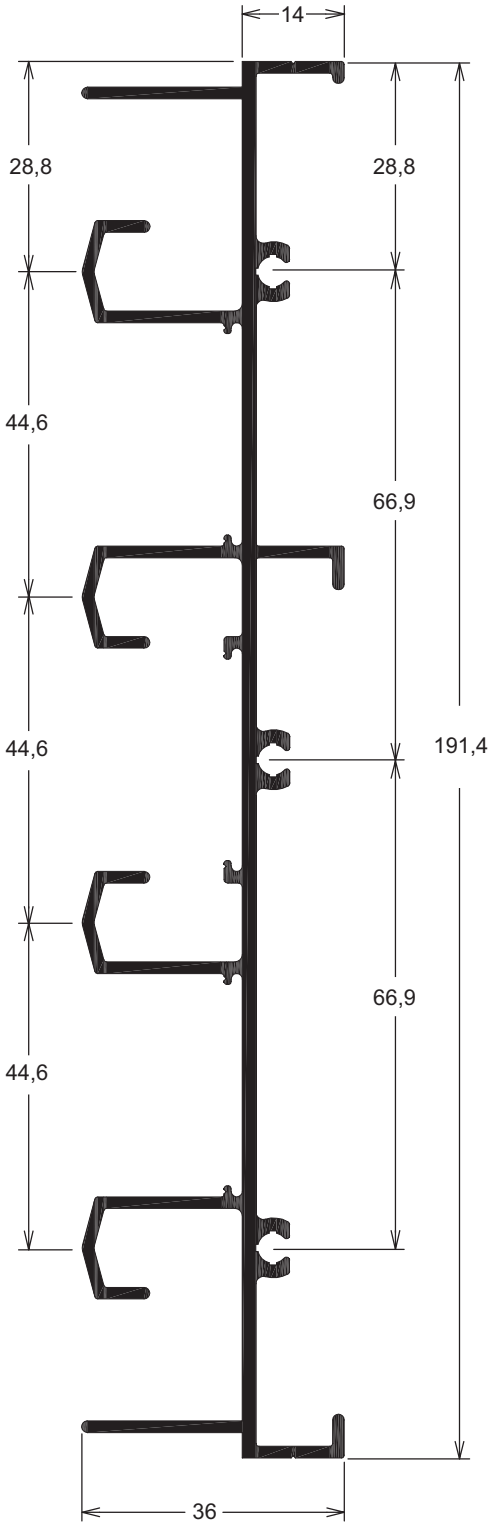


TIPOLOGIA DE CORRER 4 FOLHAS

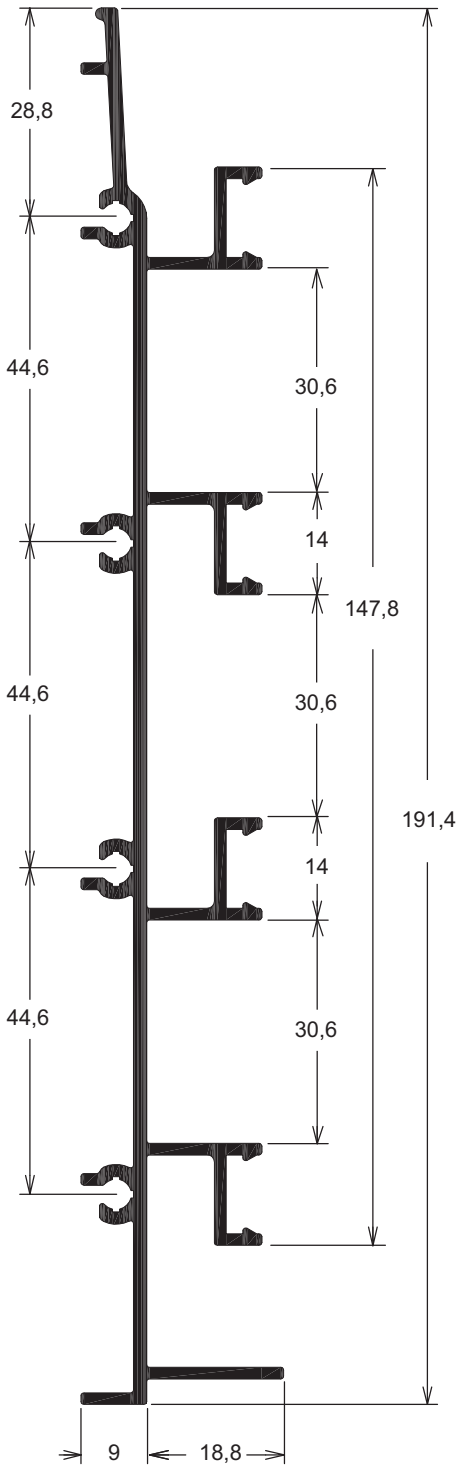
LG072 1,250 kg/m



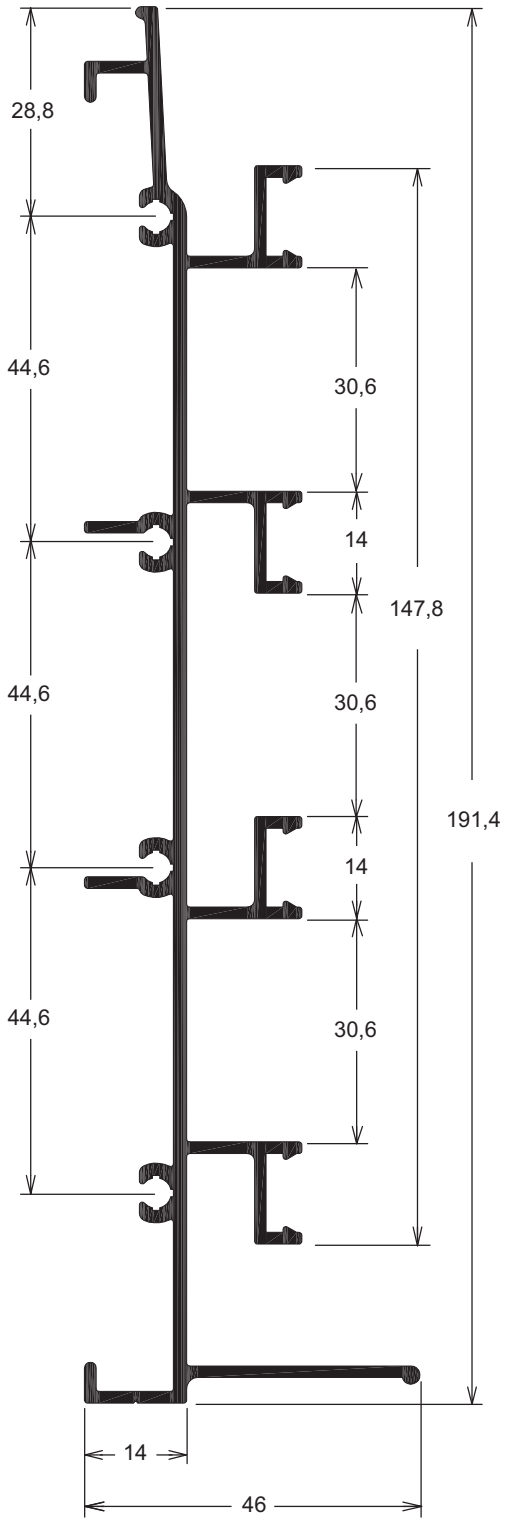
LG070 2,273 kg/m



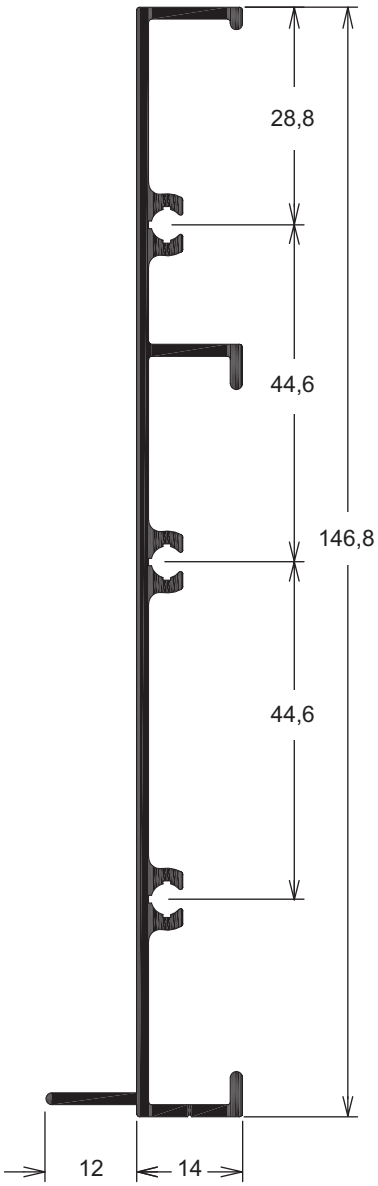
LG161 1,922 kg/m



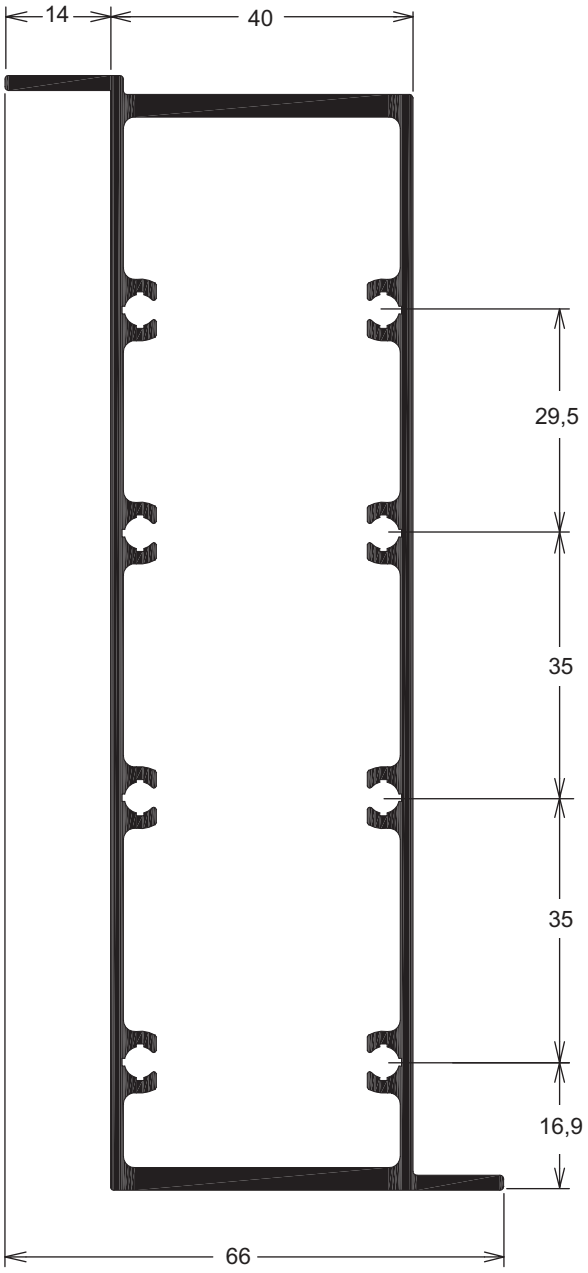
LG160 2,082 kg/m



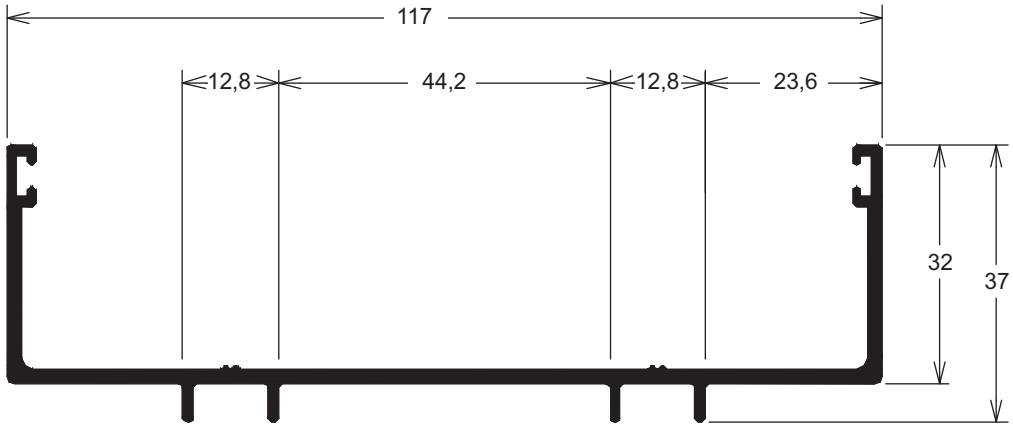
LG234 1,068 kg/m



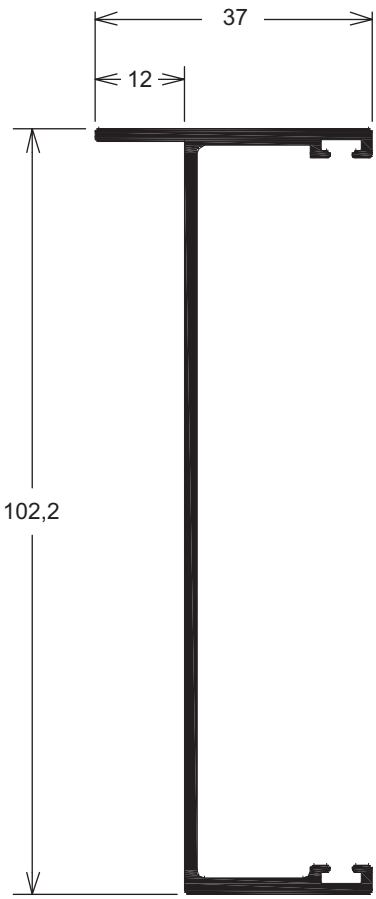
LG233 2,527 kg/m



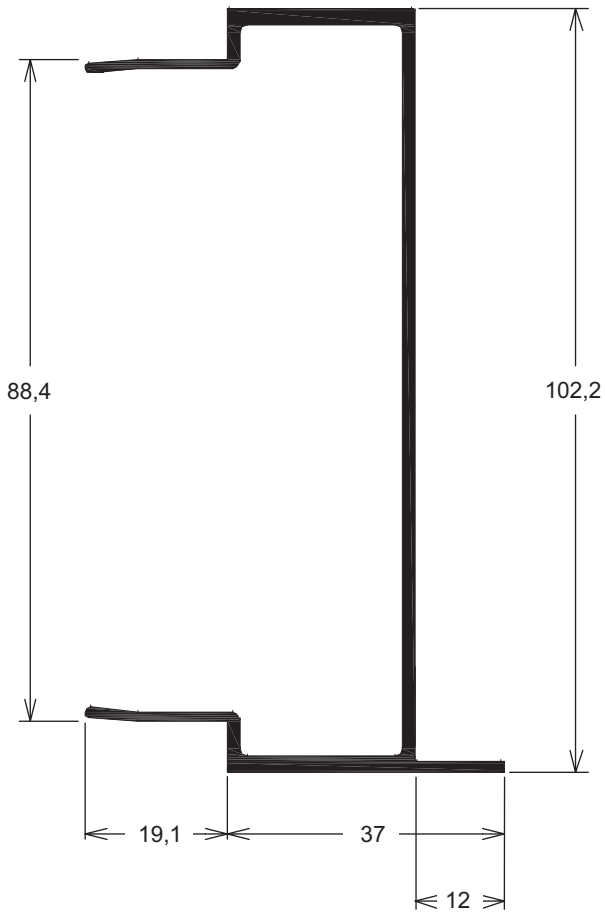
LG210 1,064 kg/m



LG215 0,790 kg/m

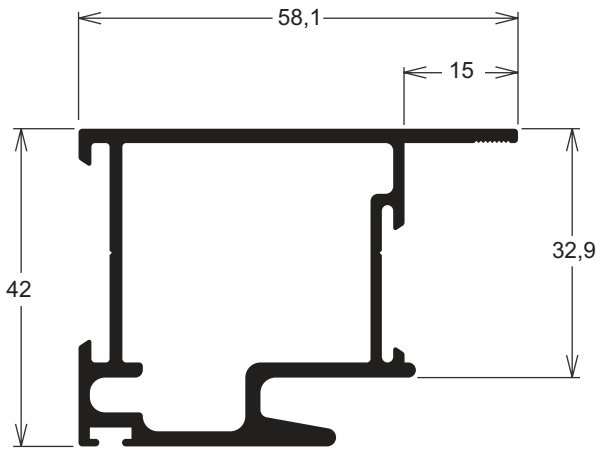


LG216 0,960 kg/m

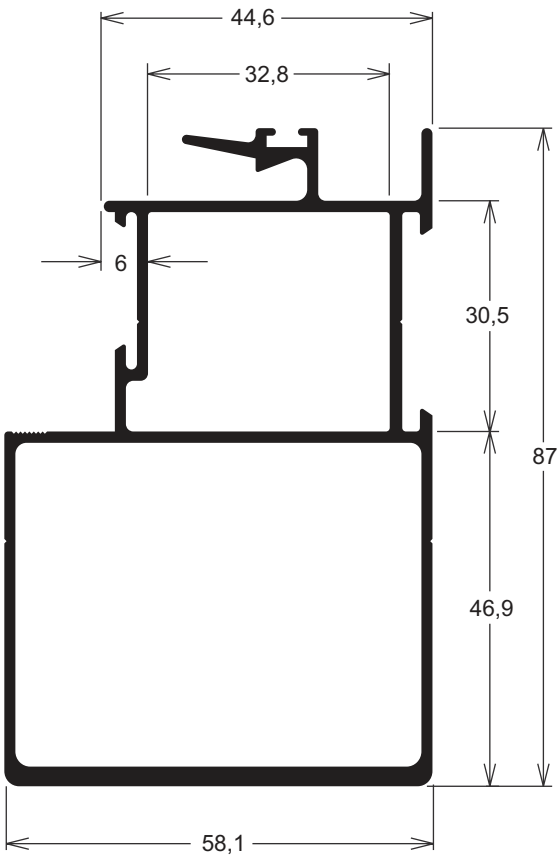


FOLHAS VIDRO DUPLO

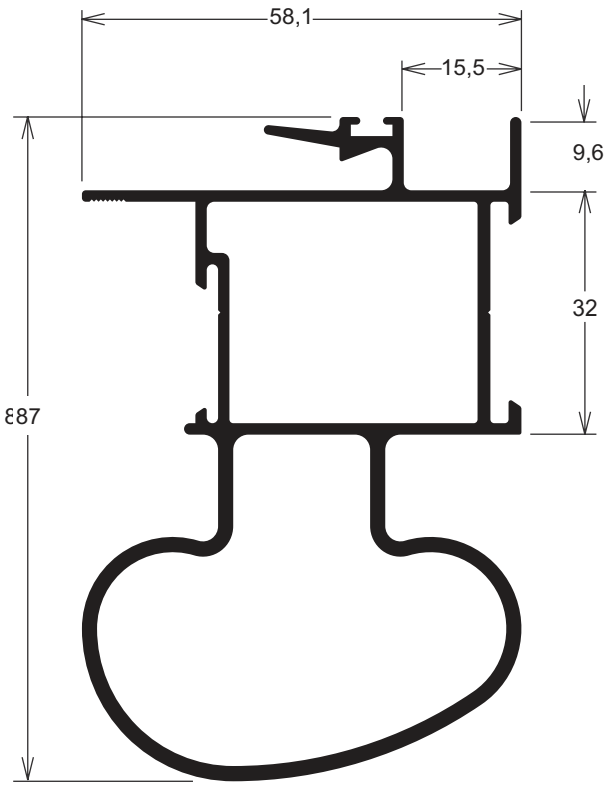
LG019 1,080 kg/m



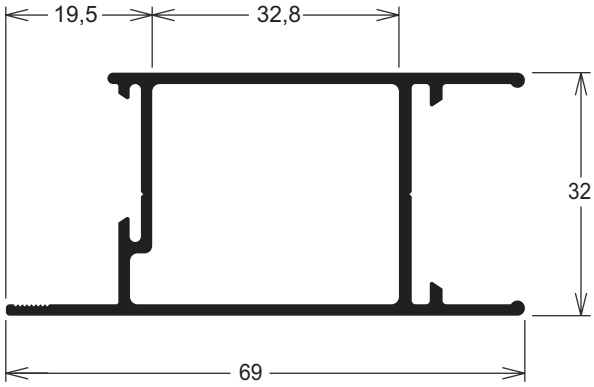
LG052 1,667 kg/m



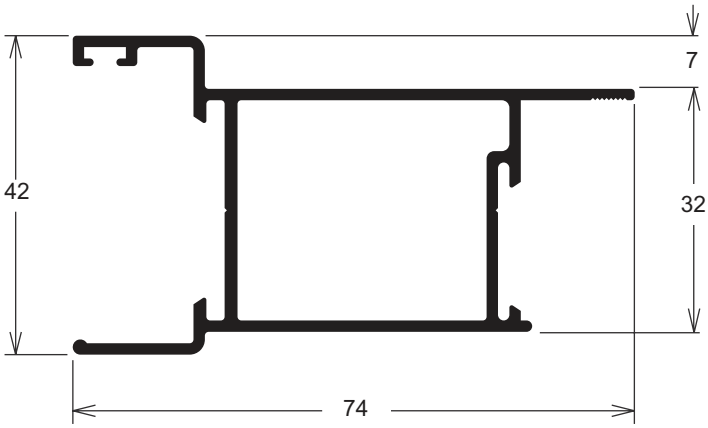
LG021 1,733 kg/m



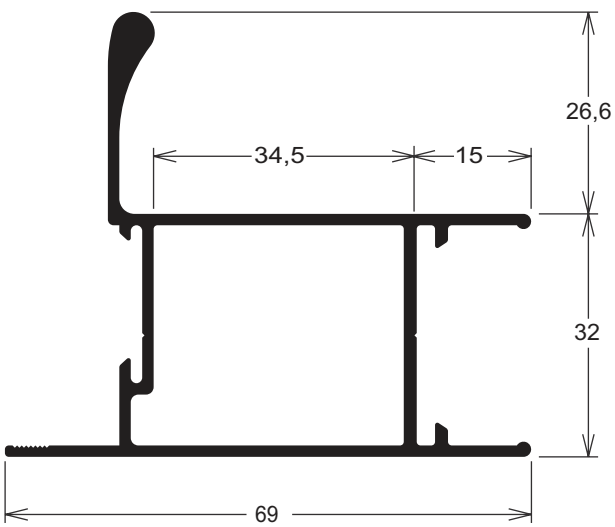
LG050 0,811 kg/m



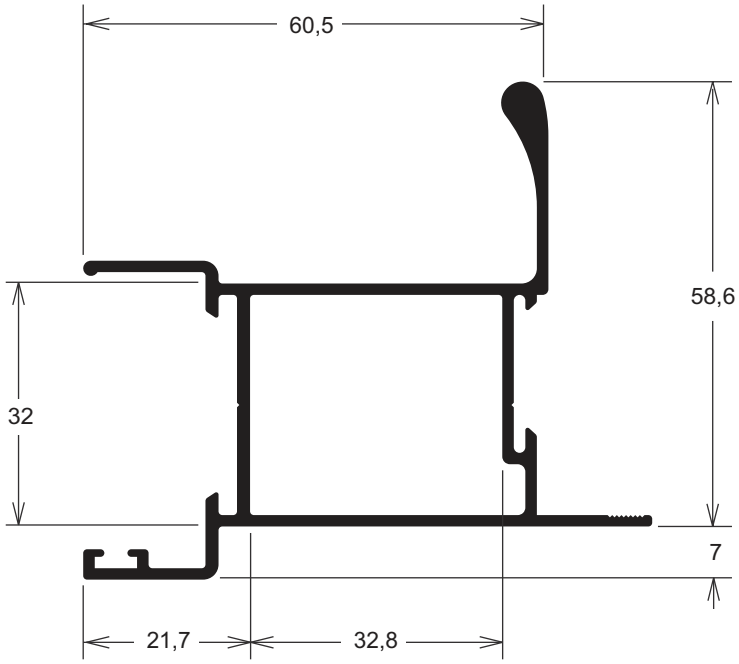
LG051 0,919 kg/m



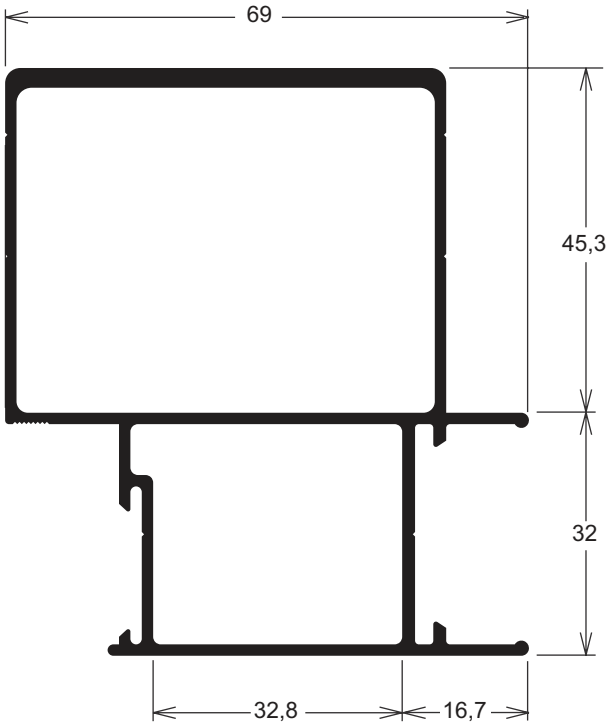
LG017 1,010 kg/m



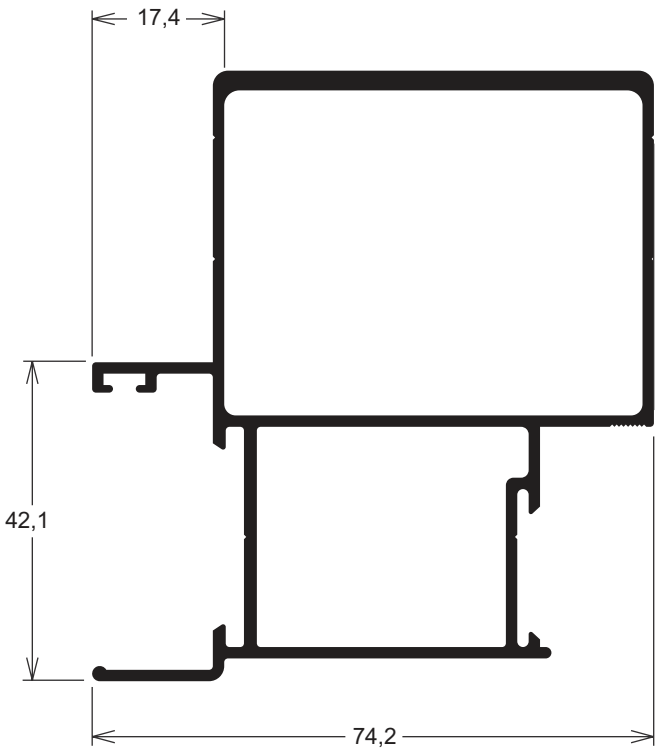
LG020 1,116 kg/m



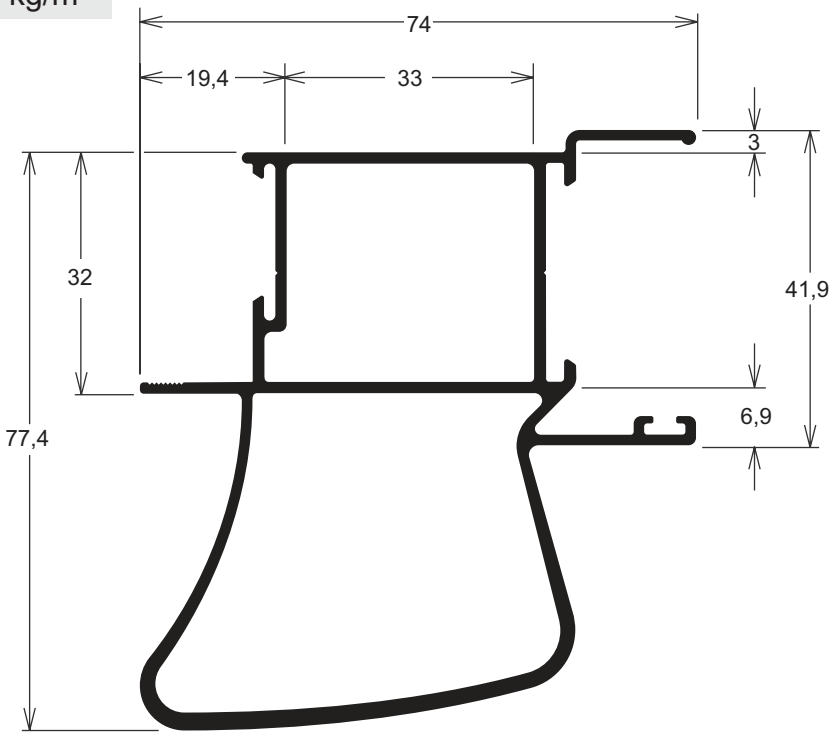
LG054 1,572 kg/m



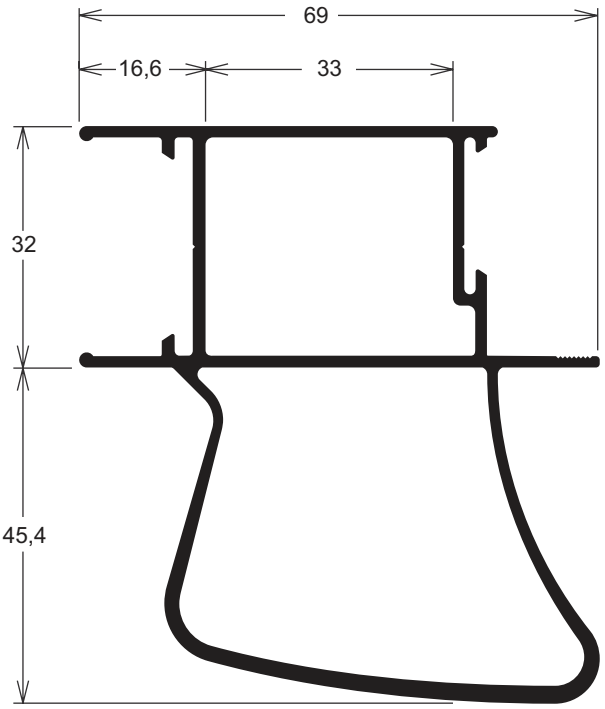
LG053 1,659 kg/m



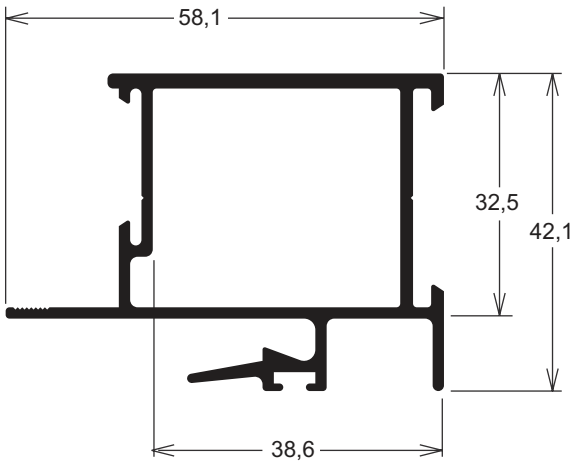
LG139 1,609 kg/m



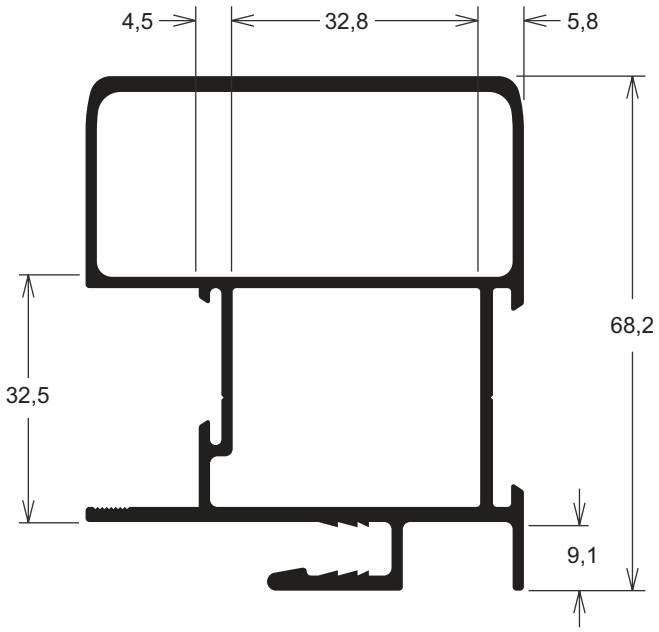
LG138 1,519 kg/m



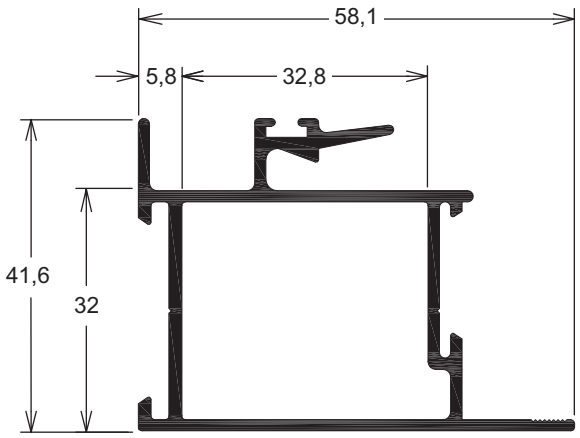
LG048 0,967 kg/m



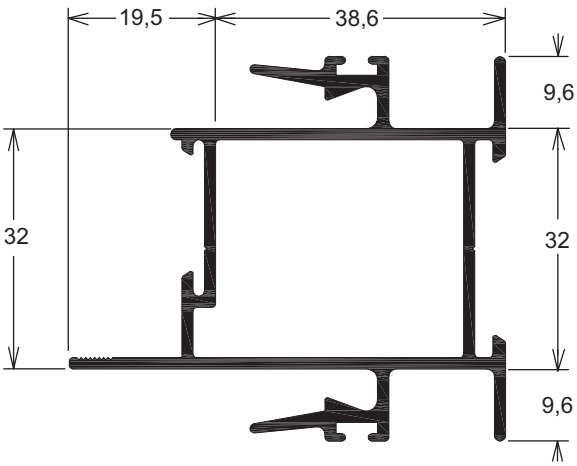
LG018 1,572 kg/m



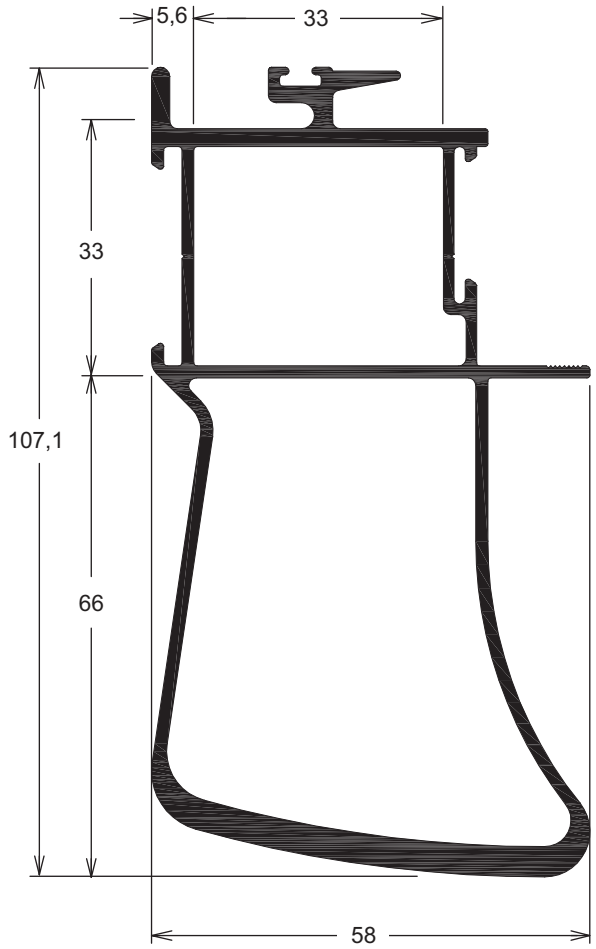
LG049 0,908 kg/m



LG162 1,074 kg/m

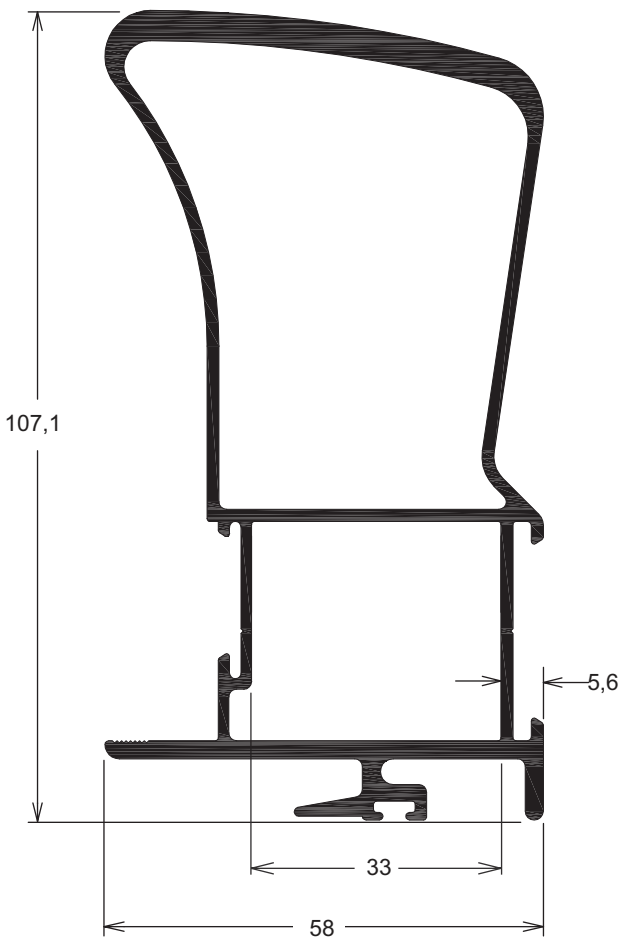


LG205 2,194 kg/m



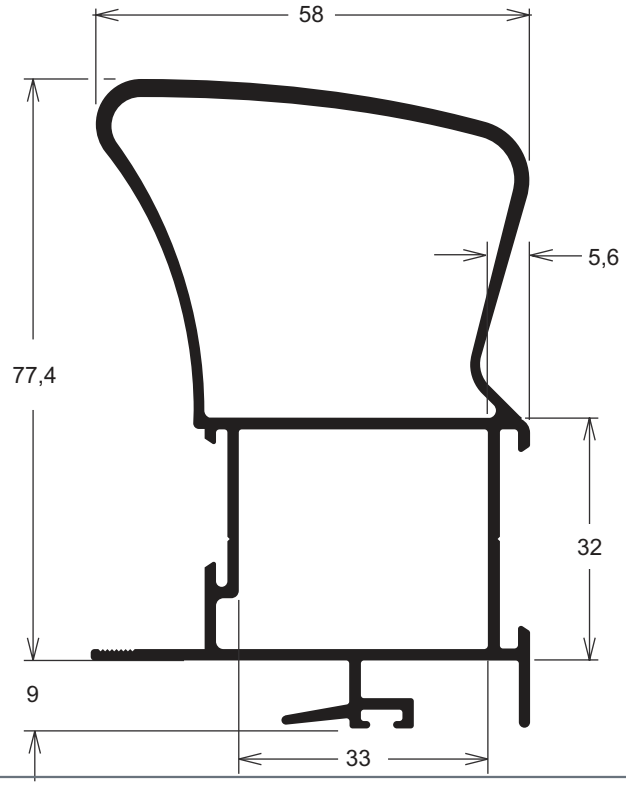
Não possui tampa de acabamento

LG204 2,221 kg/m

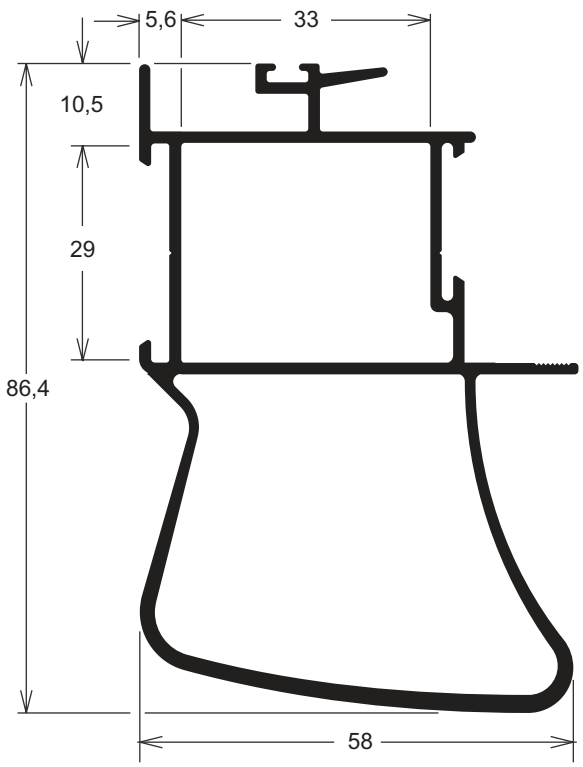


Não possui tampa de acabamento

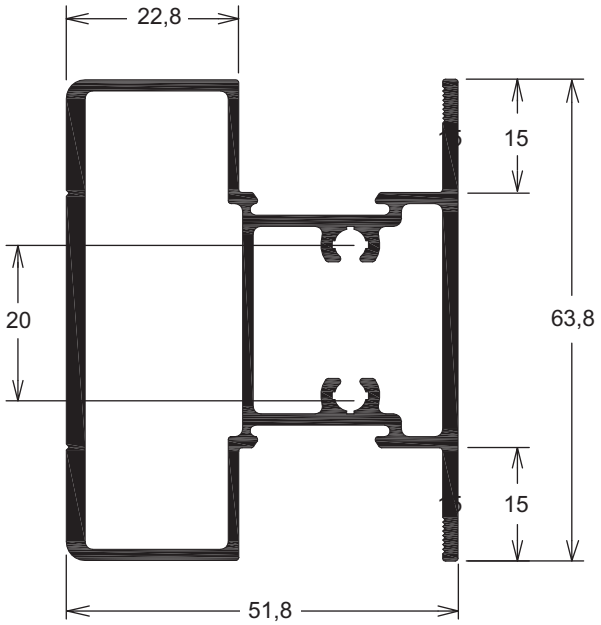
LG137 1,579 kg/m



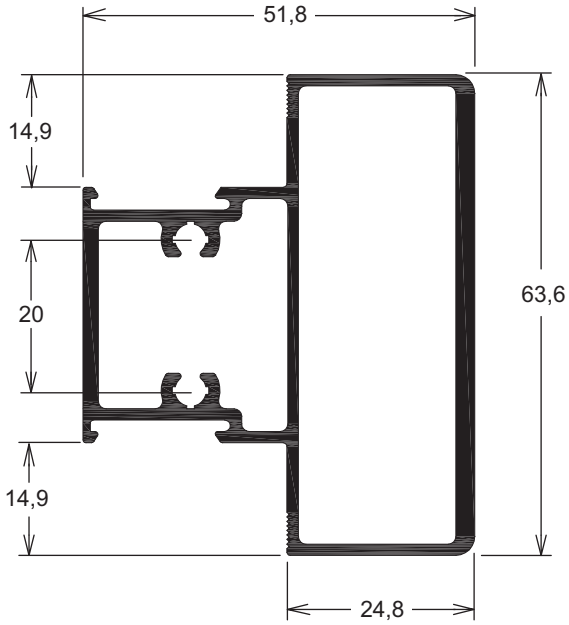
LG140 1,579 kg/m



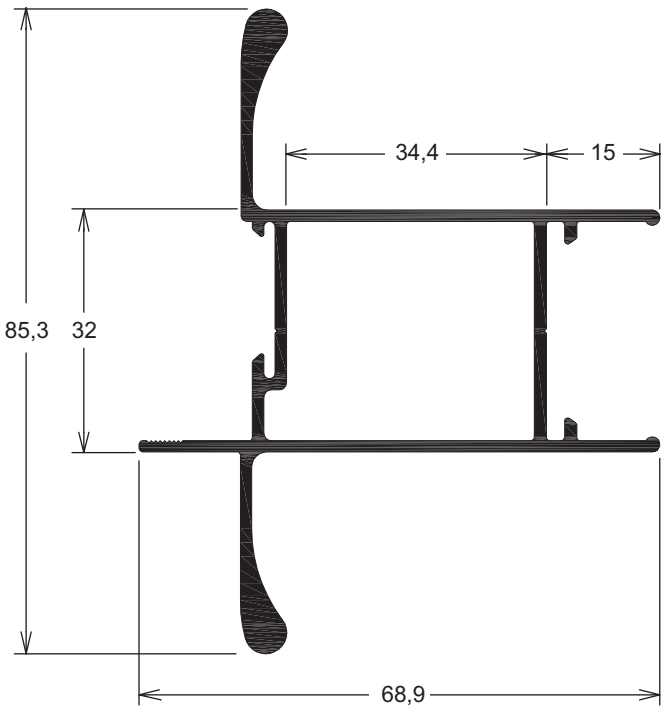
LG202 1,540 kg/m



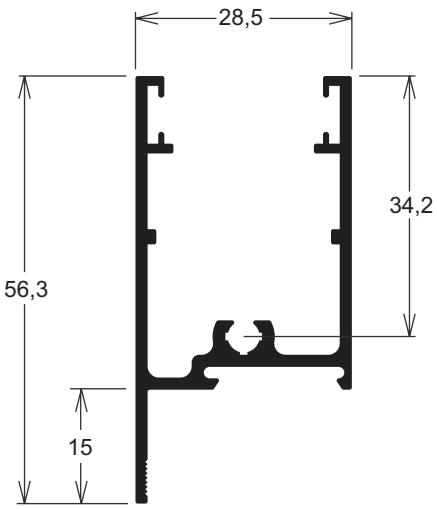
LG203 1,369 kg/m



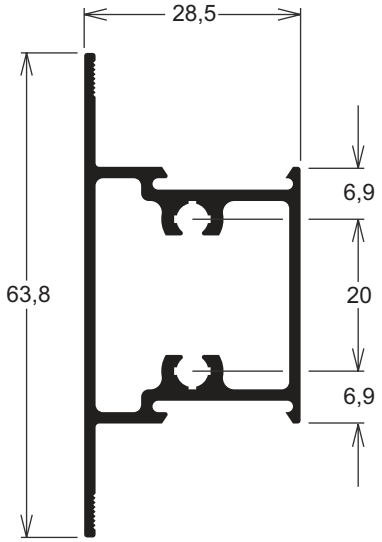
LG201 1,192 kg/m



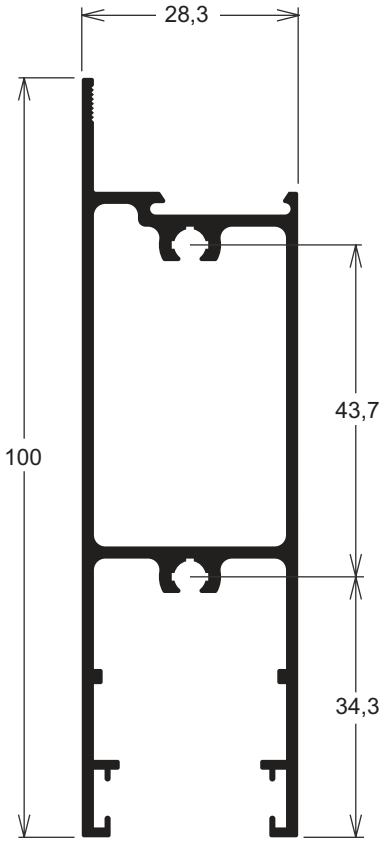
LG006 0,677 kg/m



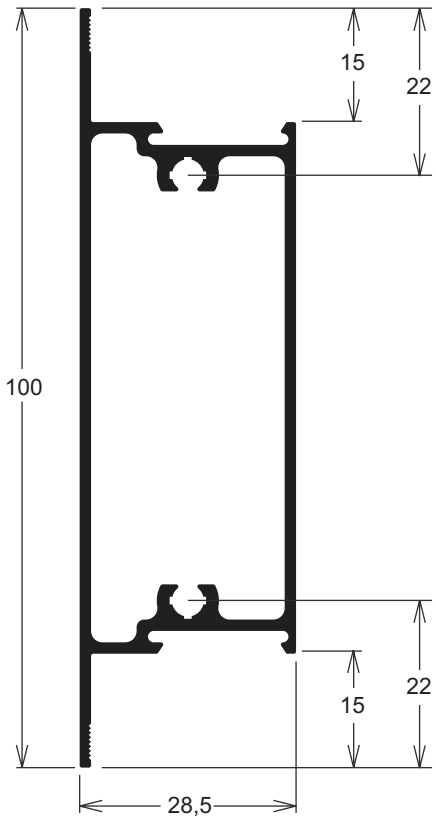
LG055 0,758 kg/m



LG007 1,229 kg/m

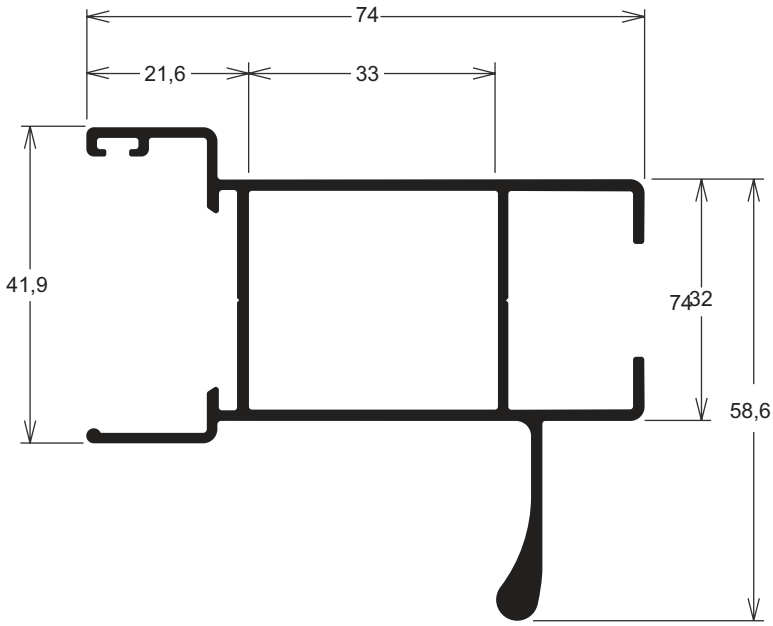


LG022 1,064 kg/m

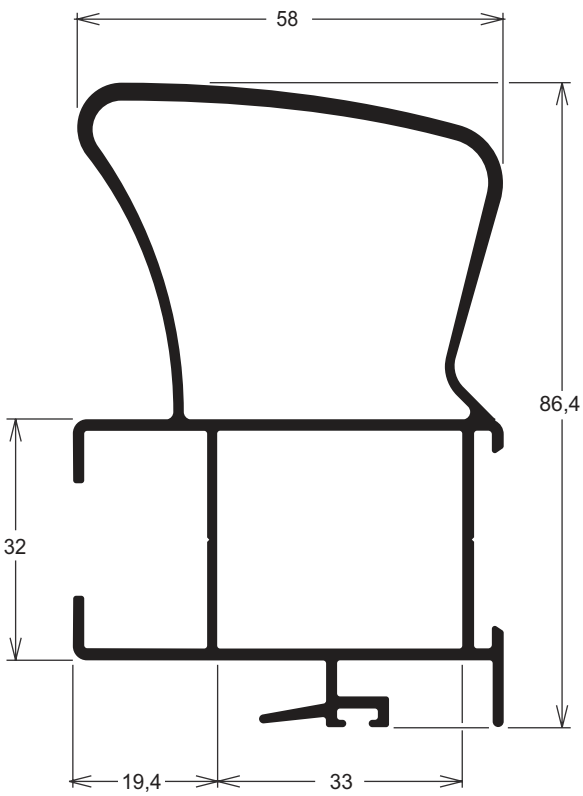


FOLHAS SEM BAGUETE

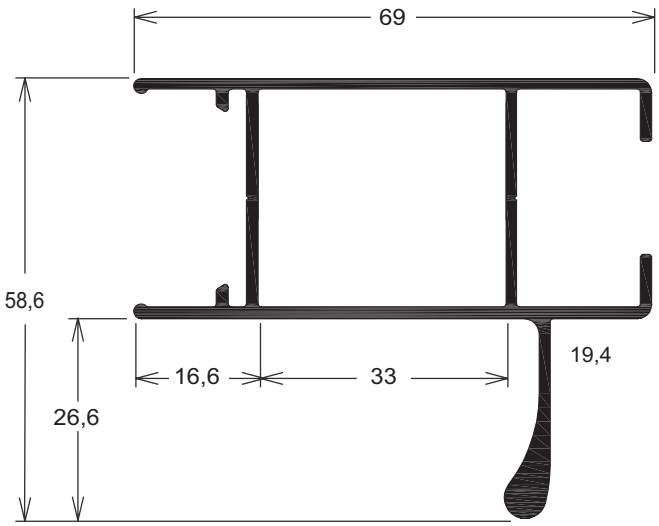
LG134 1,169 kg/m



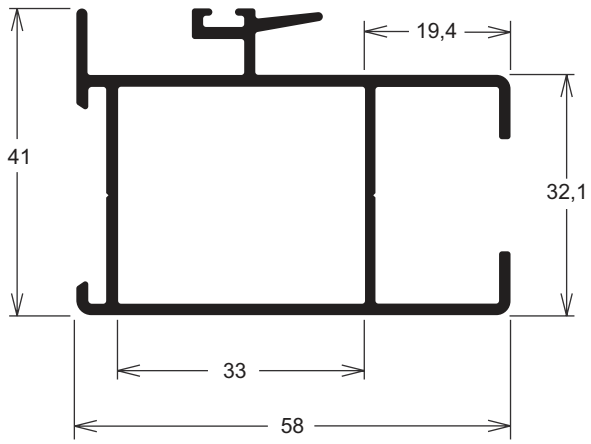
LG127 1,656 kg/m



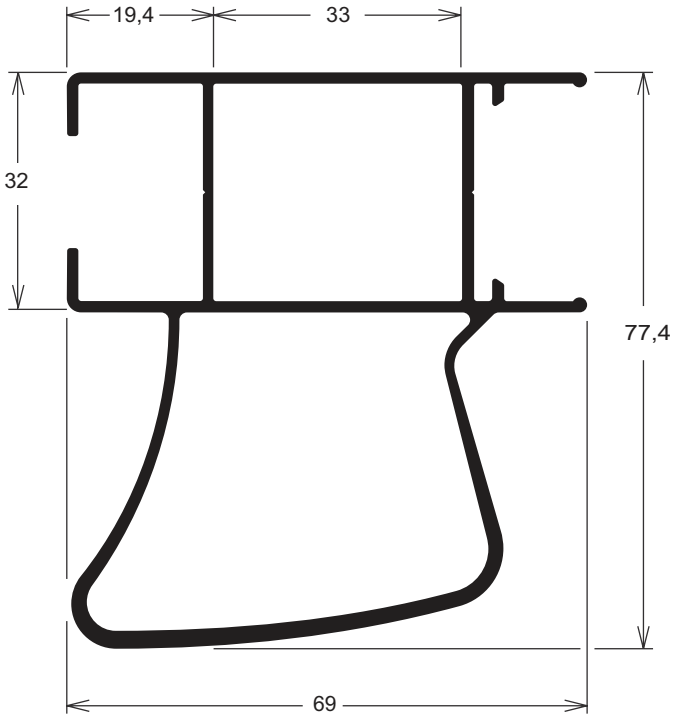
LG126 1,069 kg/m



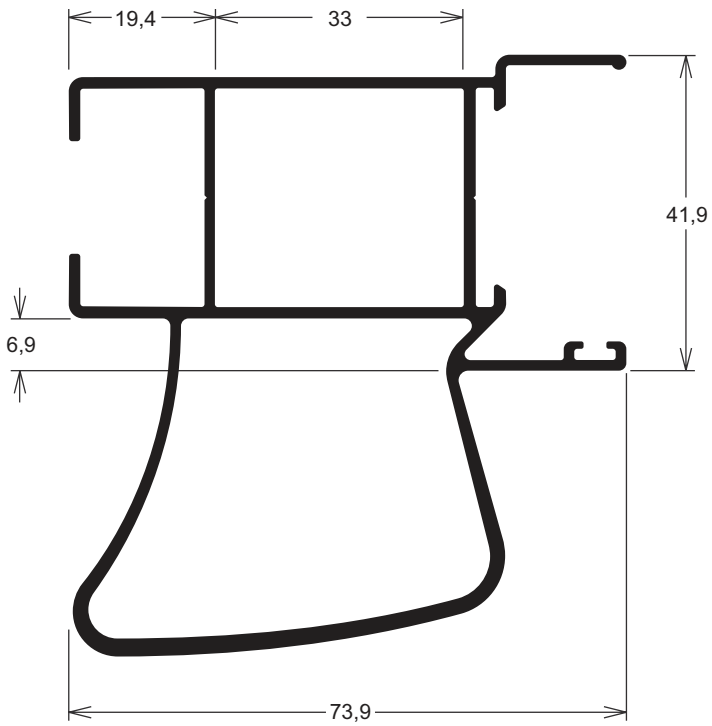
LG128 0,952 kg/m



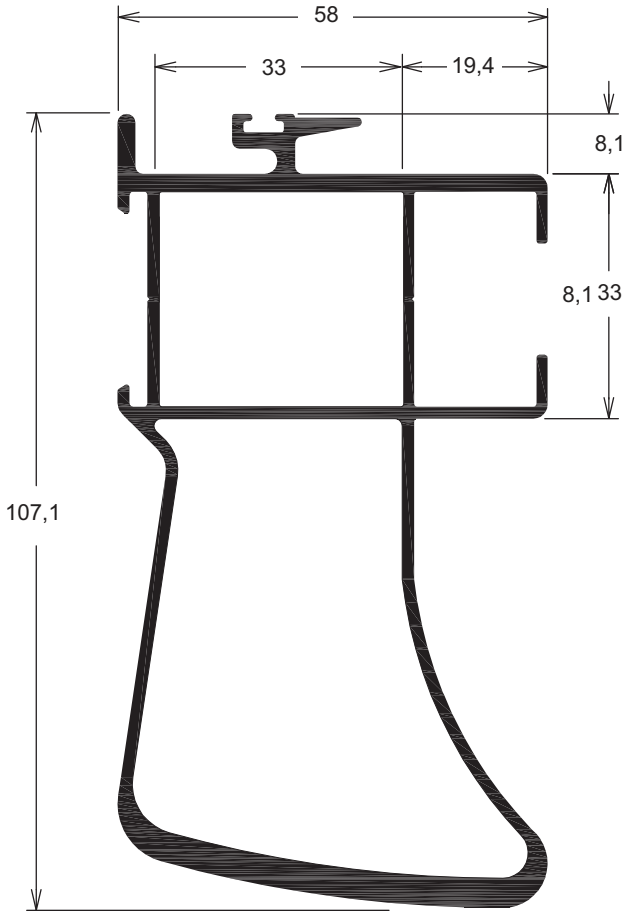
LG135 1,597 kg/m



LG136 1,688 kg/m

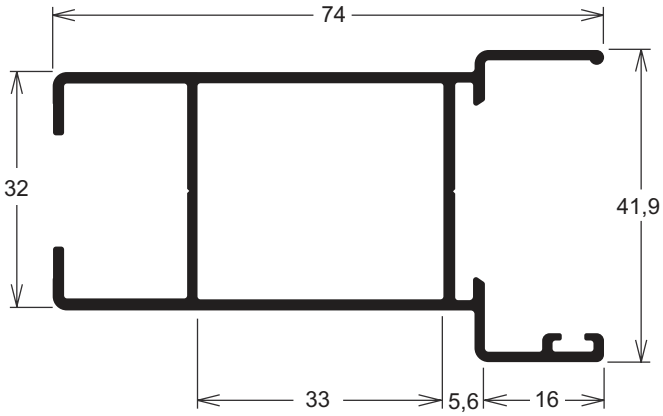


LG206 2,312 kg/m

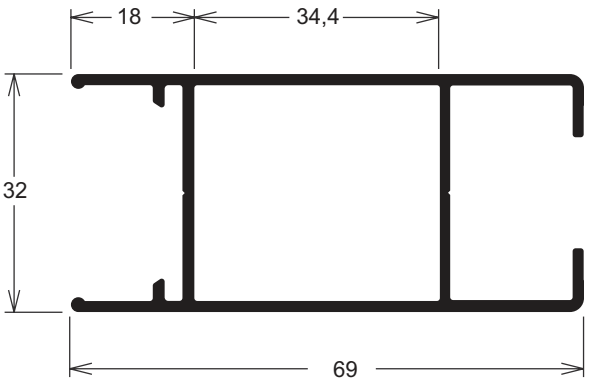


Não possui tampa de acabamento

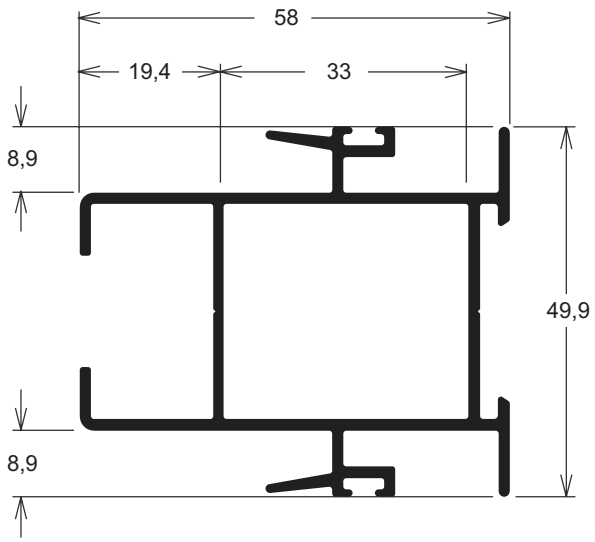
LG133 0,936 kg/m



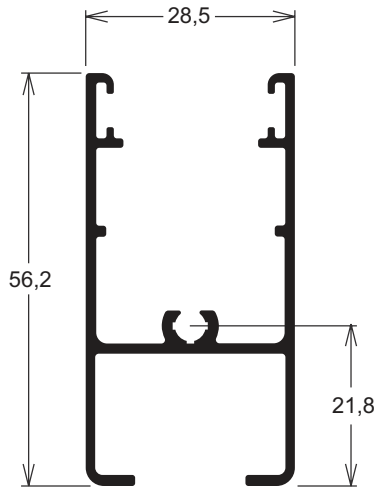
LG132 0,842 kg/m



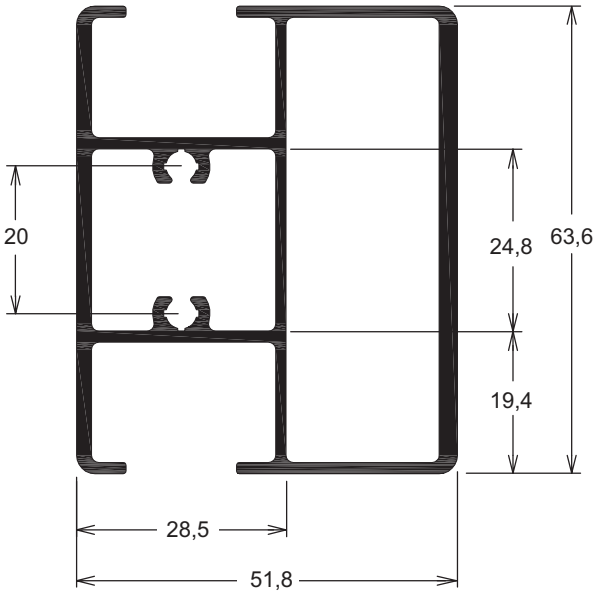
LG163 1,110 kg/m



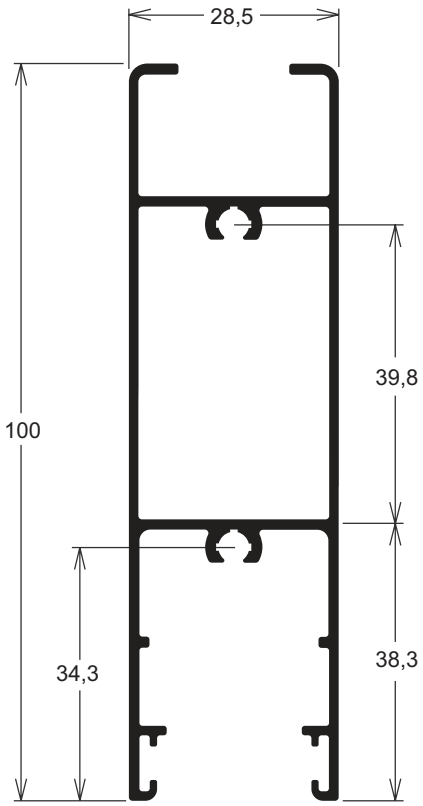
LG130 0,661 kg/m



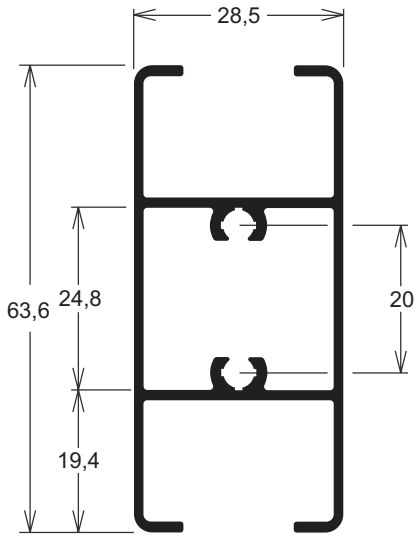
LG207 1,580 kg/m



LG129 1,226 kg/m

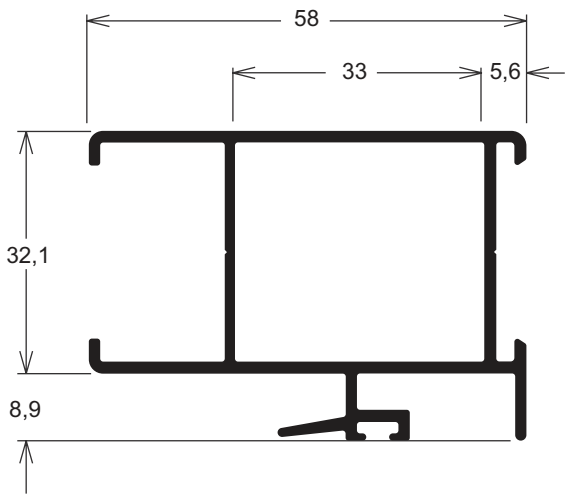


LG131 0,820 kg/m

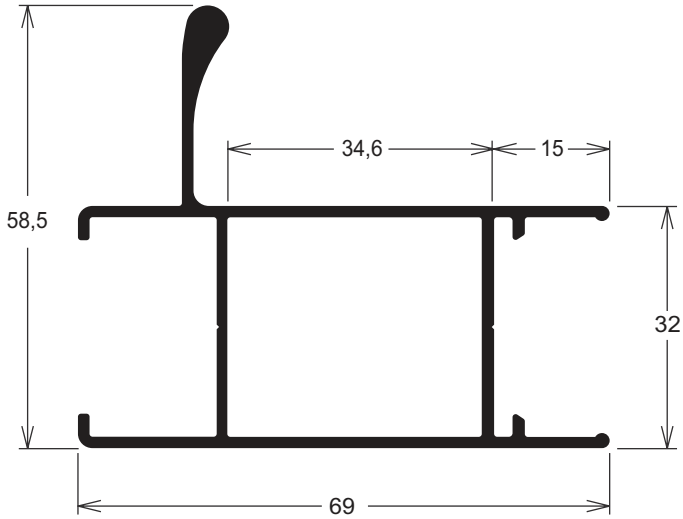


FOLHAS SEM BAGUETE PARA VIDRO DUPLO

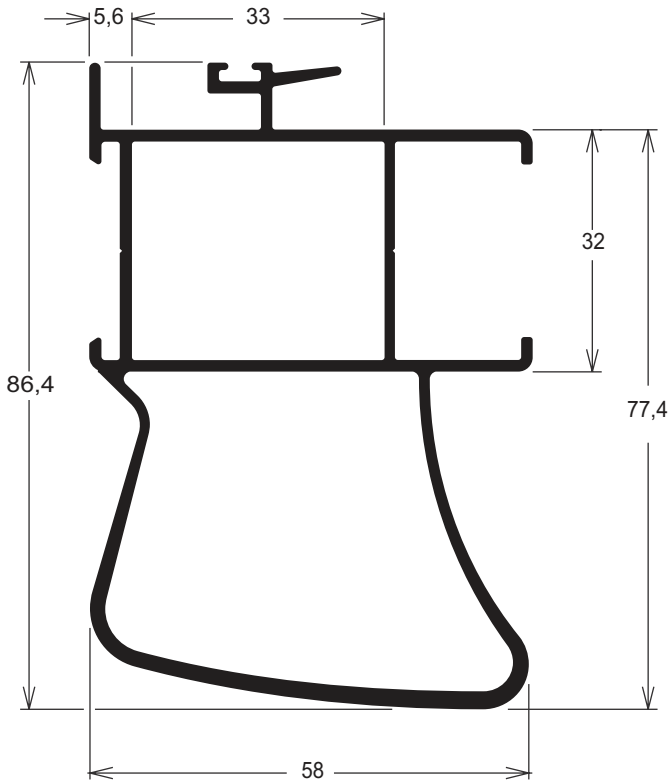
LG151 0,920 kg/m



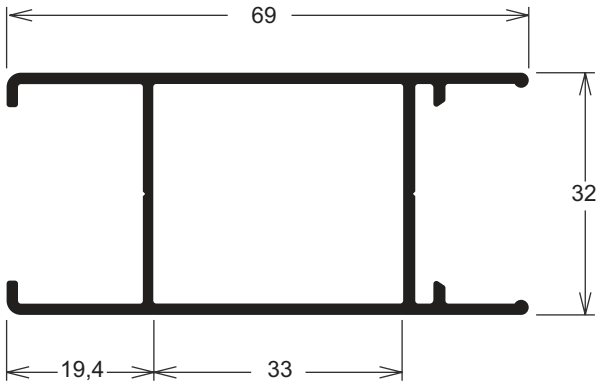
LG149 1,037 kg/m



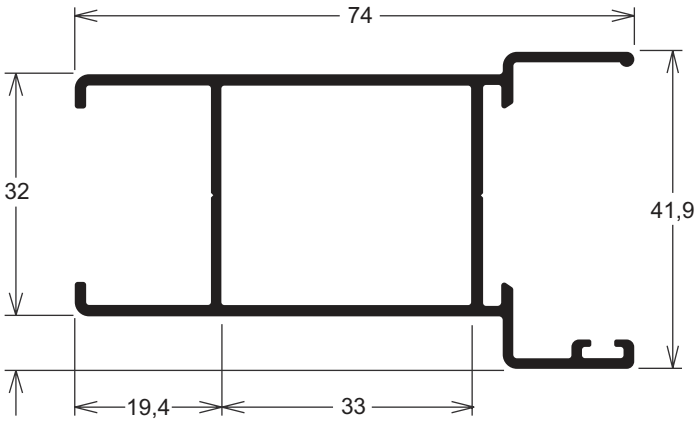
LG150 1,624 kg/m



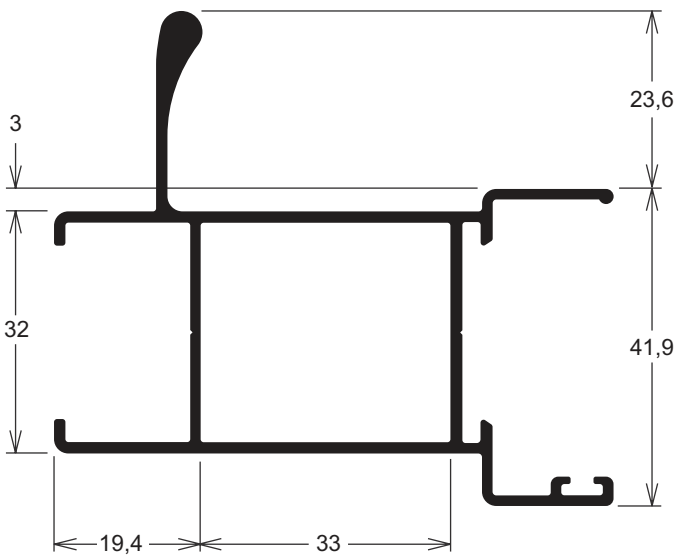
LG152 0,810 kg/m



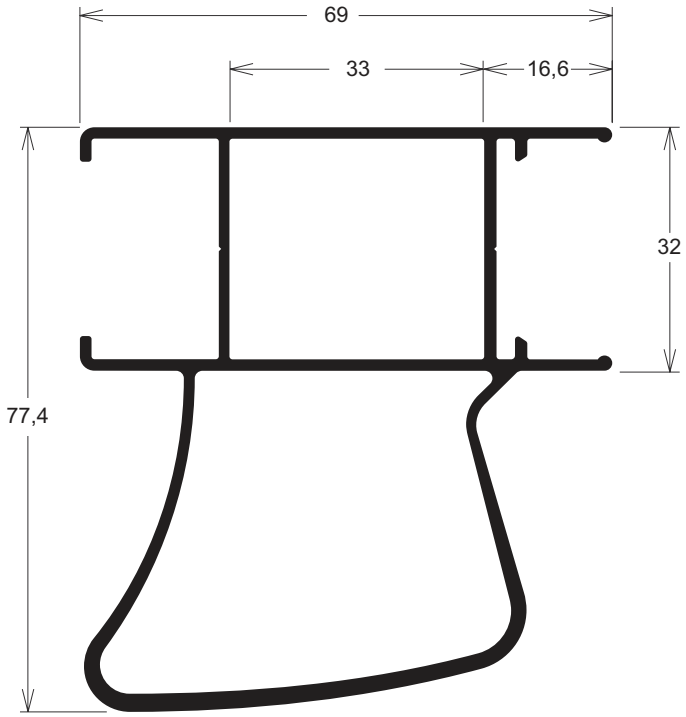
LG153 0,904 kg/m



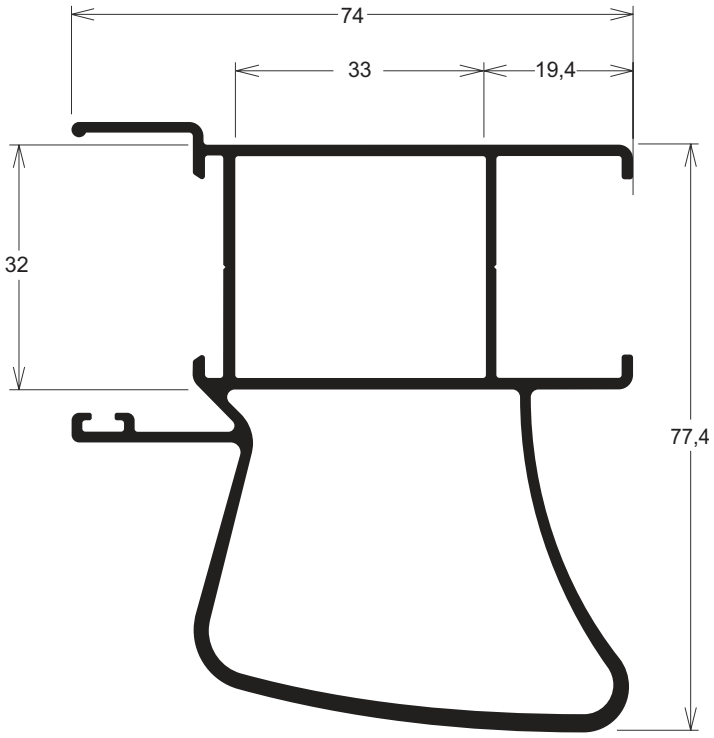
LG154 1,130 kg/m



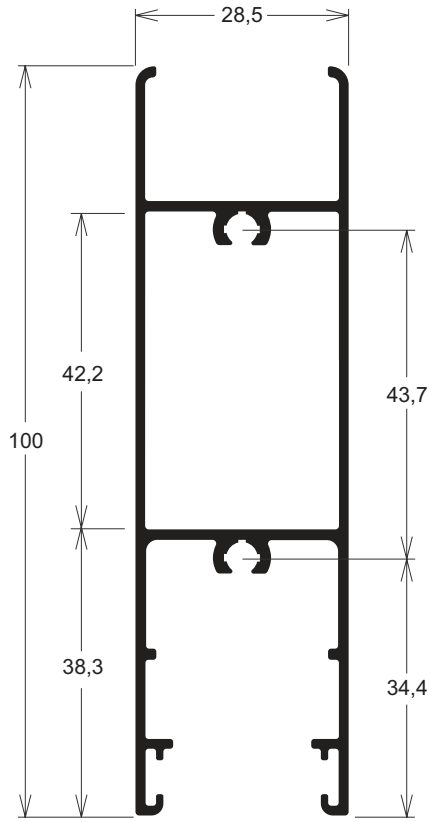
LG155 1,564 kg/m



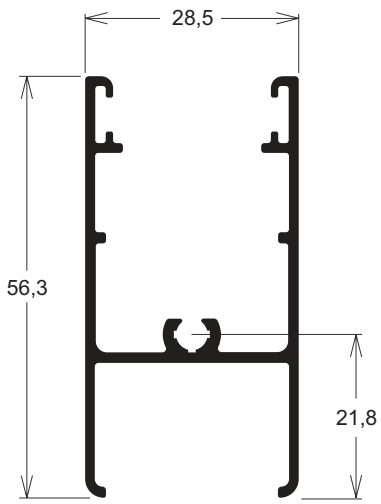
LG156 1,654 kg/m



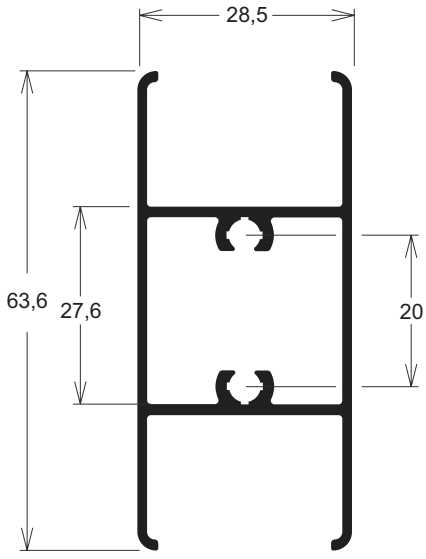
LG146 1,193 kg/m



LG147 0,629 kg/m

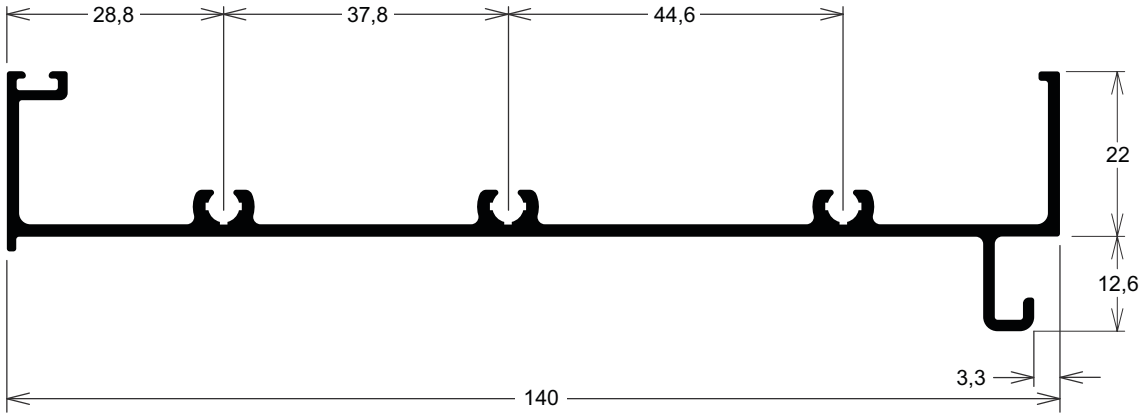


LG148 0,755 kg/m

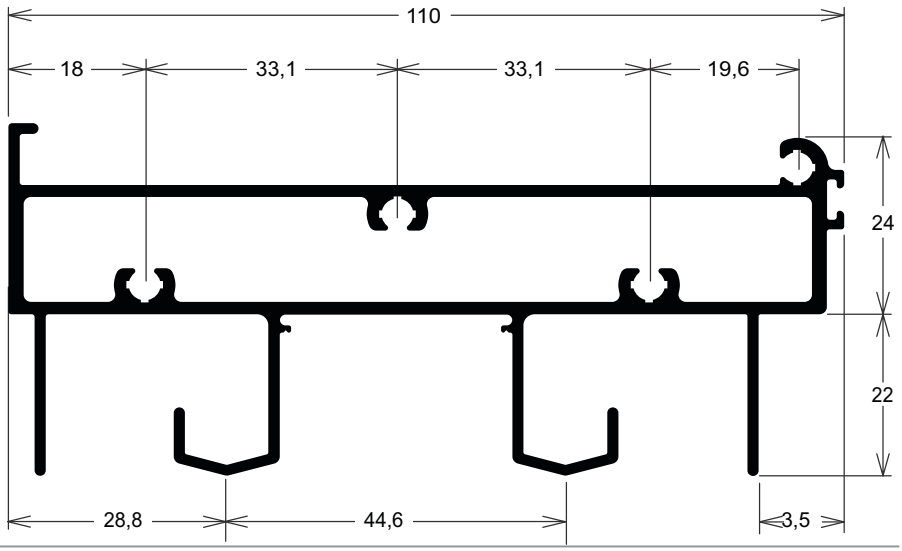


INTEGRADA

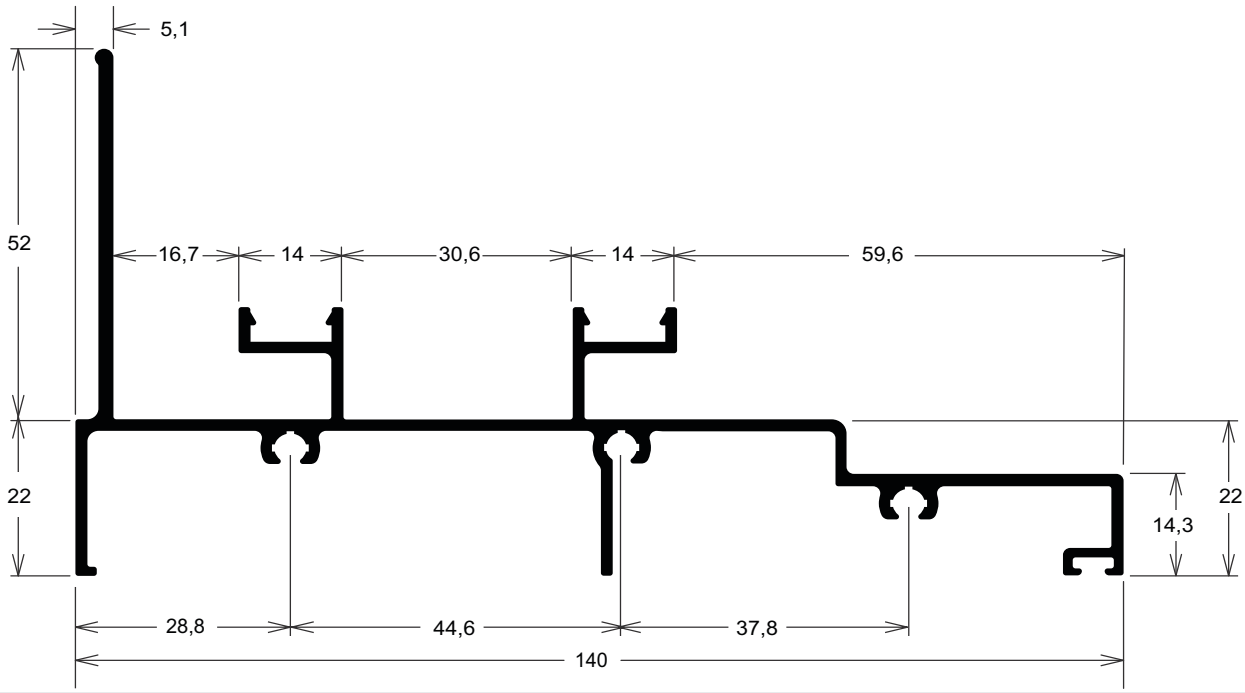
LG168 1,094 kg/m



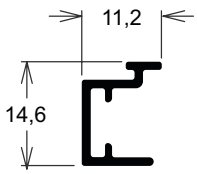
LG166 1,897 kg/m



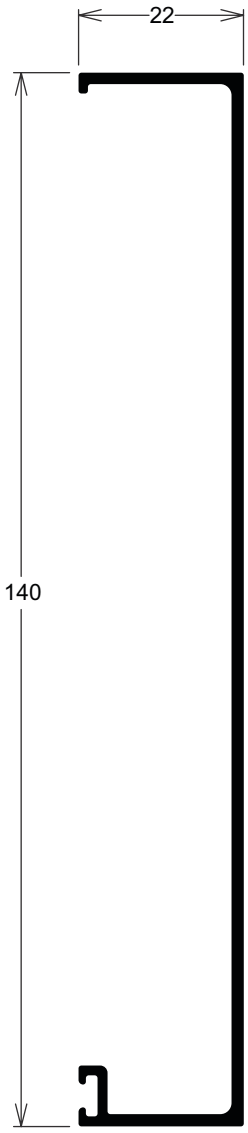
LG172 1,686 kg/m



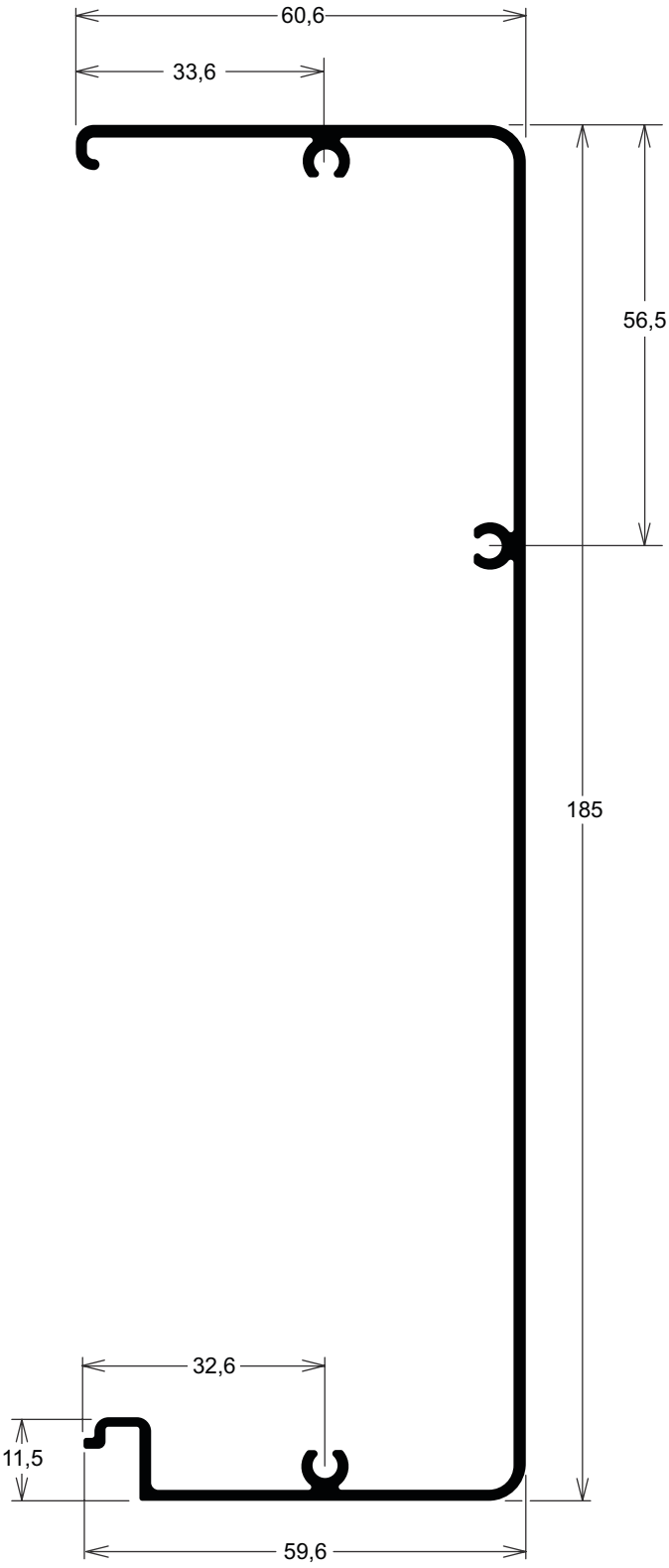
LG169 0,122 kg/m



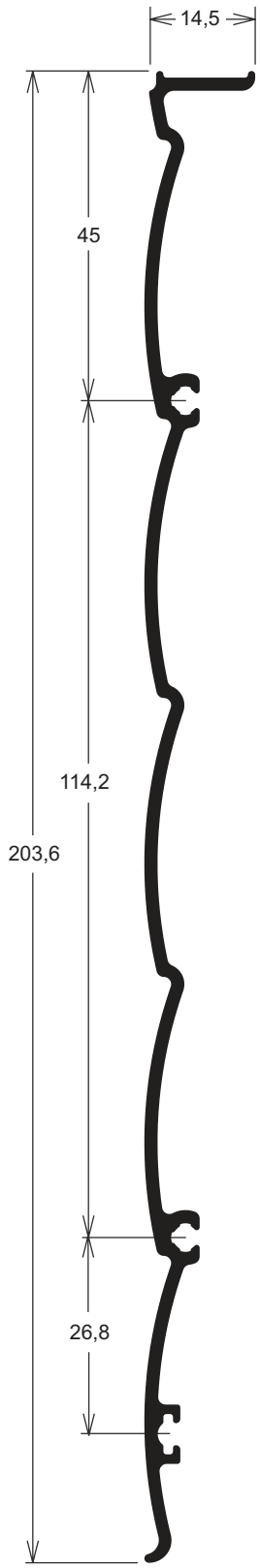
LG170 0,827 kg/m



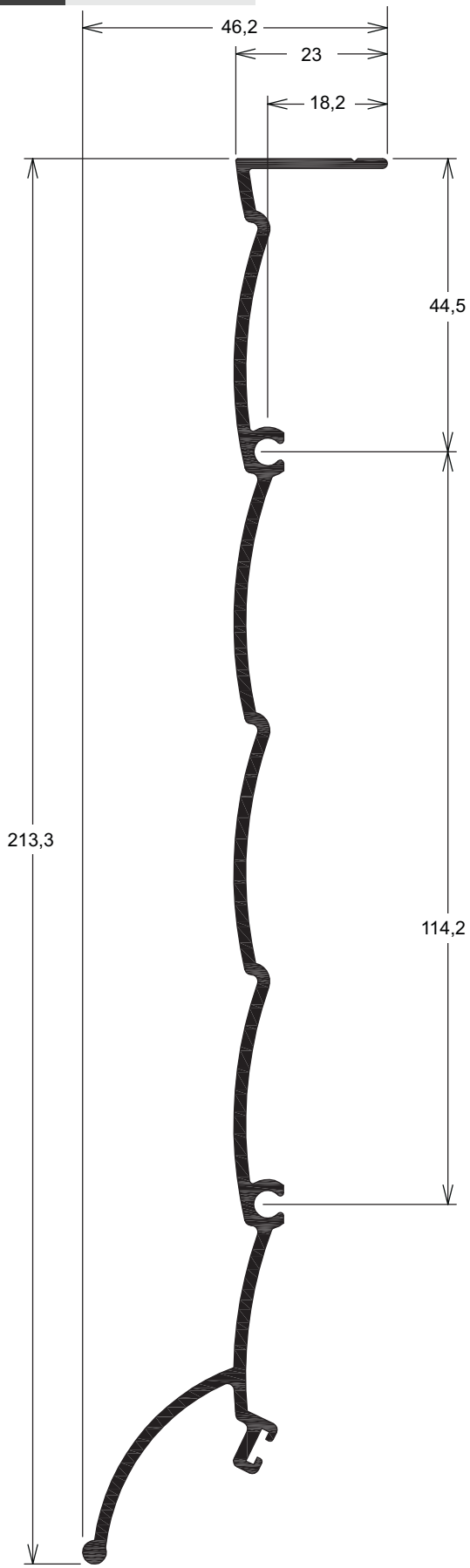
LG167 1,598 kg/m



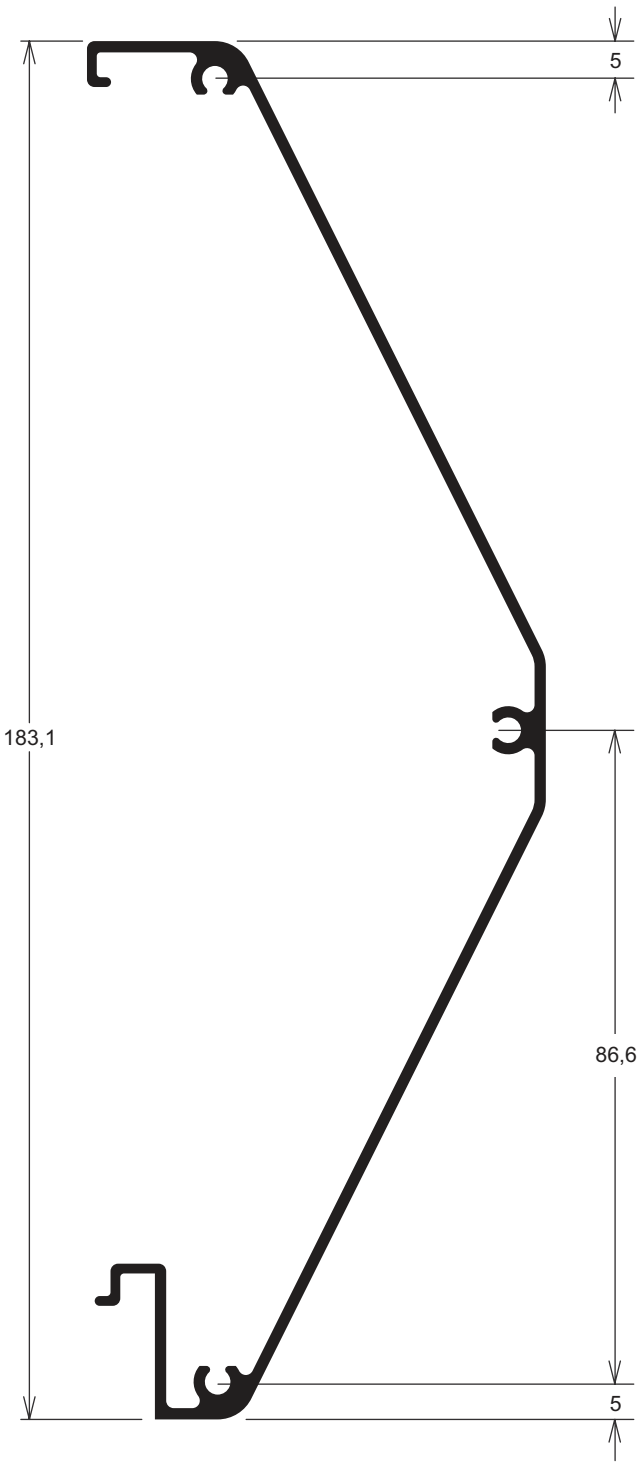
IN039 1,216 kg/m



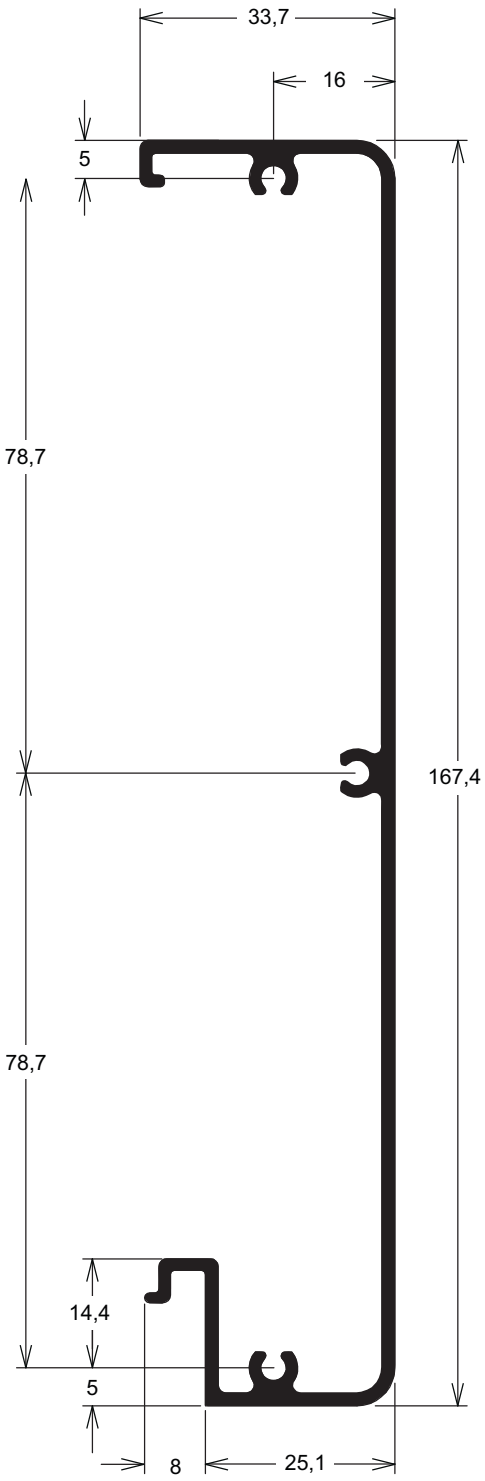
MN039 1,400 kg/m



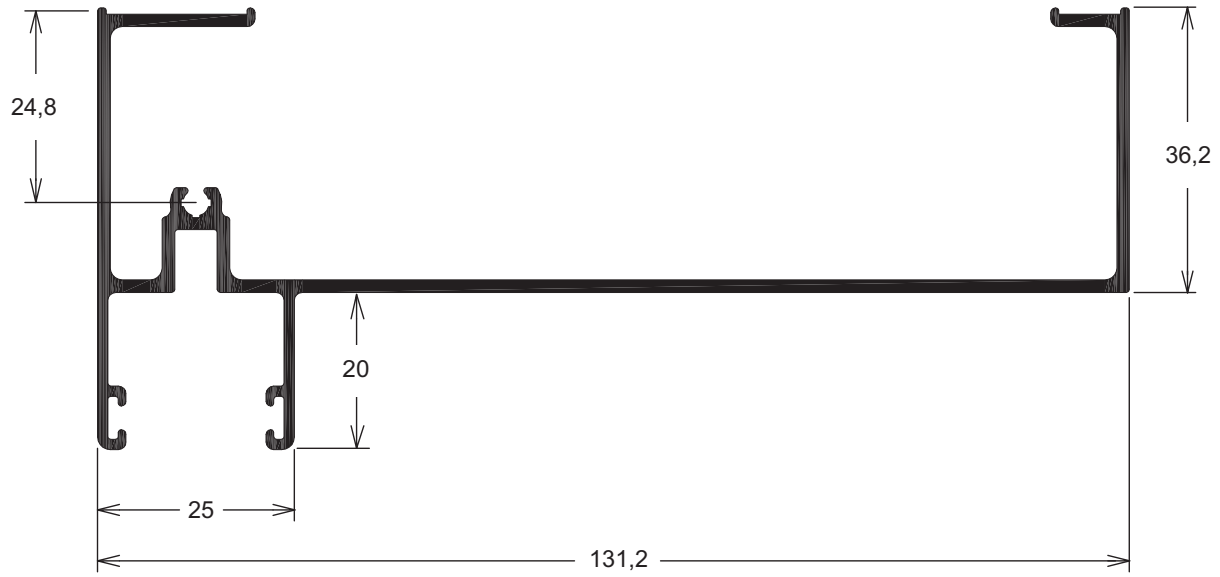
MN008 1,385 kg/m



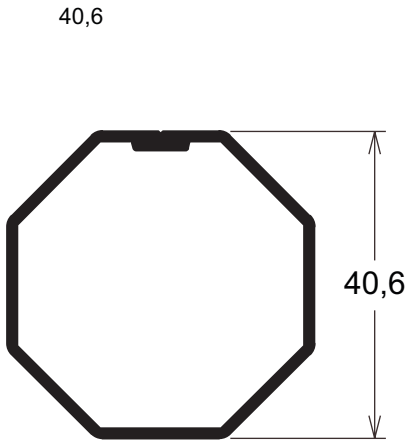
MN031 1,331 kg/m



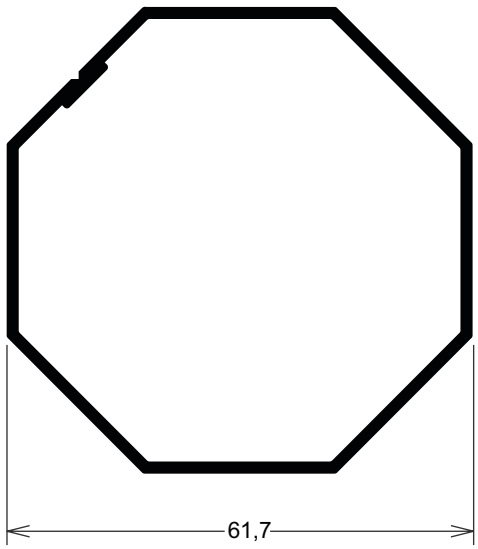
LG236 1,282 kg/m



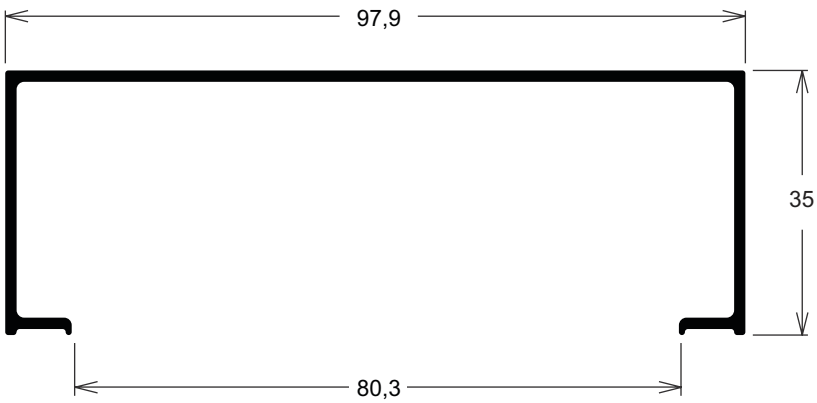
DS238 0,480 kg/m



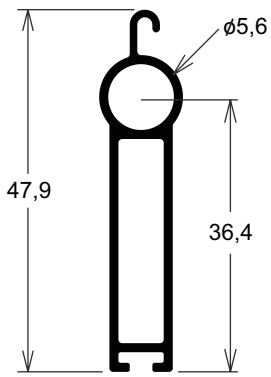
MN015 0,881 kg/m



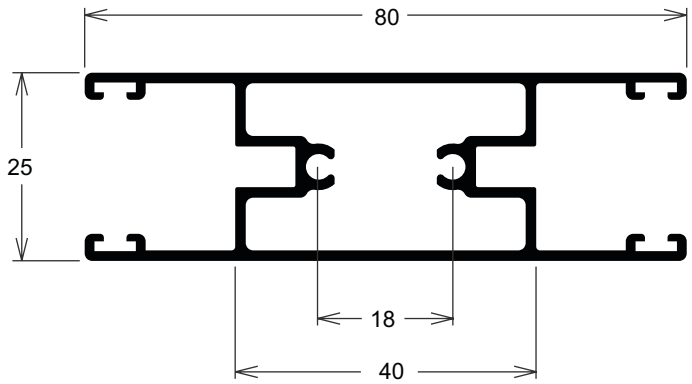
MN050 0,734 kg/m



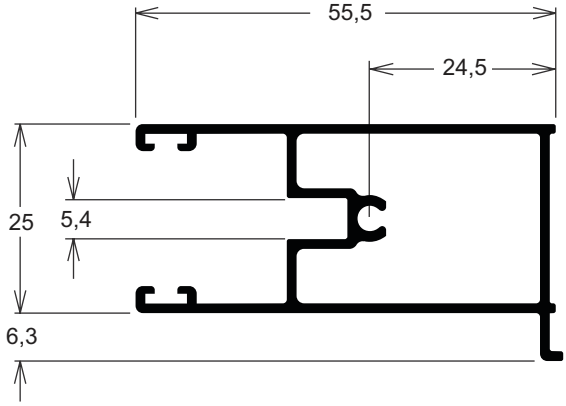
MN055 0,371 kg/m



MN027 1,043 kg/m

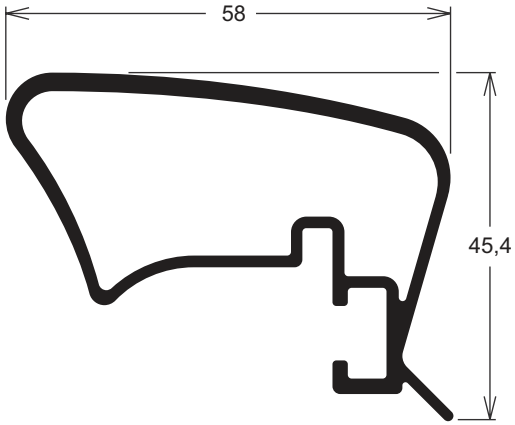


MN007 0,710 kg/m

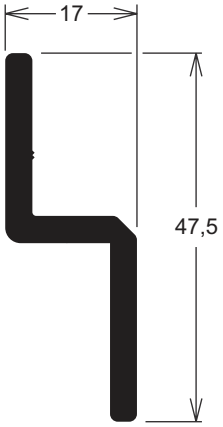


COMPLEMENTOS

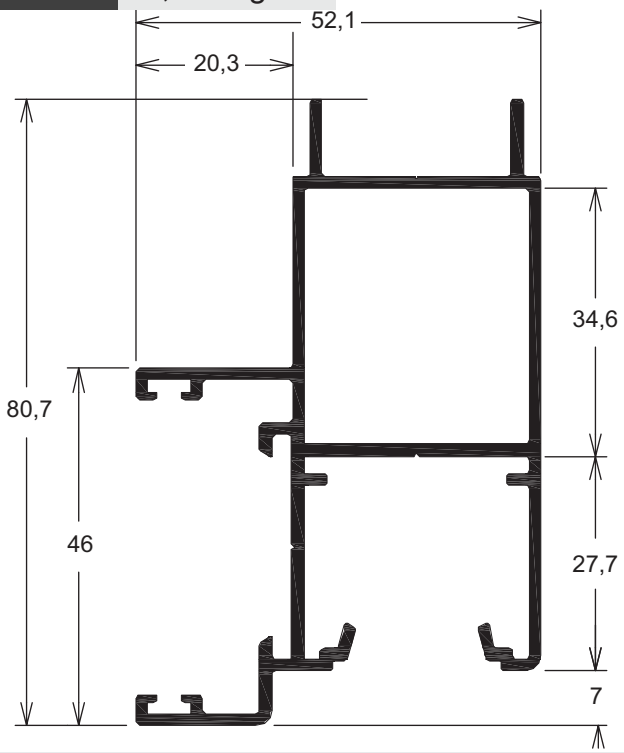
LG141 0,939 kg/m



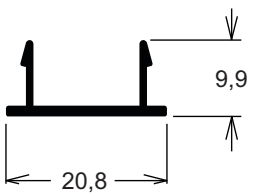
LG142 0,565 kg/m



LG235 1,229 kg/m

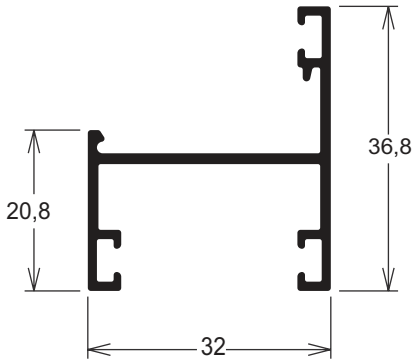


FC368 0,130 kg/m

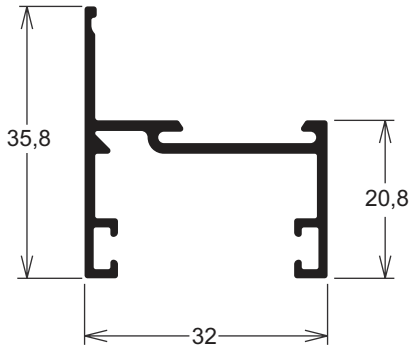


MAXIM-AR

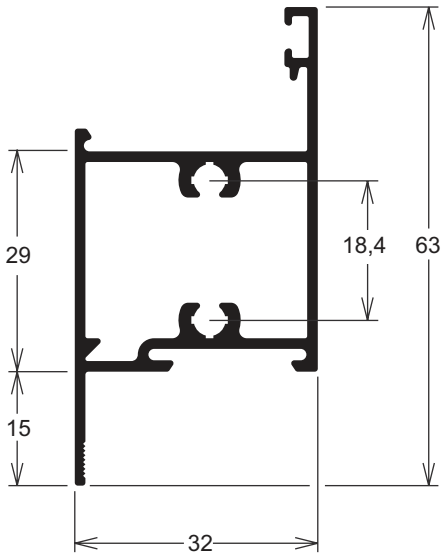
LG068 0,405 kg/m



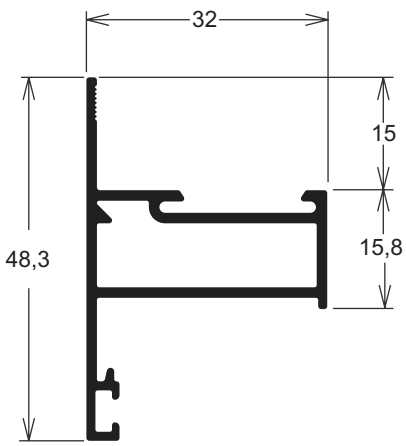
LG083 0,409 kg/m



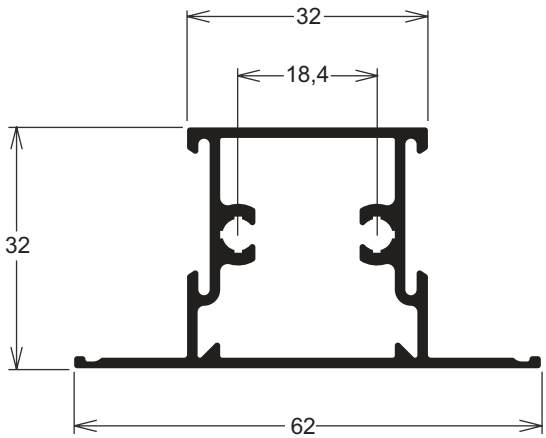
LG076 0,765 kg/m



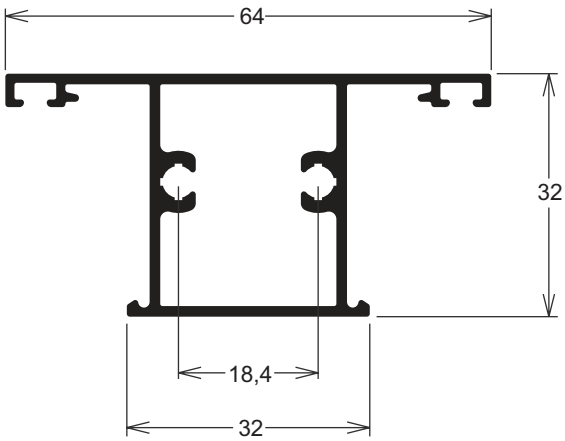
LG085 0,529 kg/m



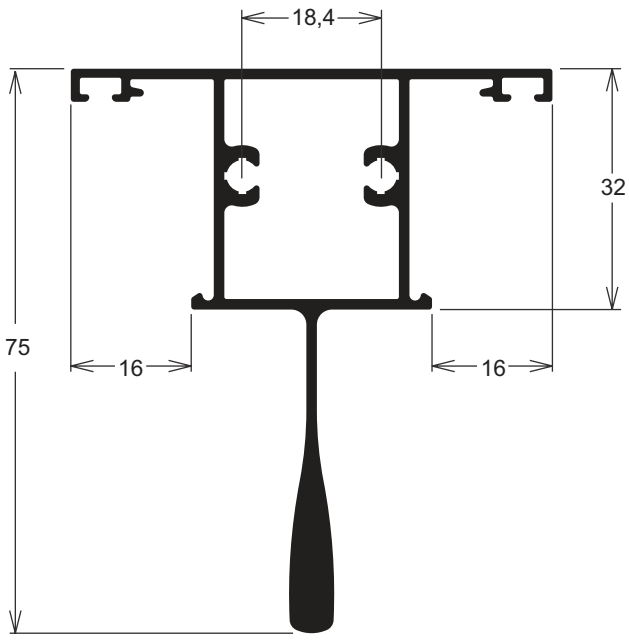
LG079 0,770 kg/m



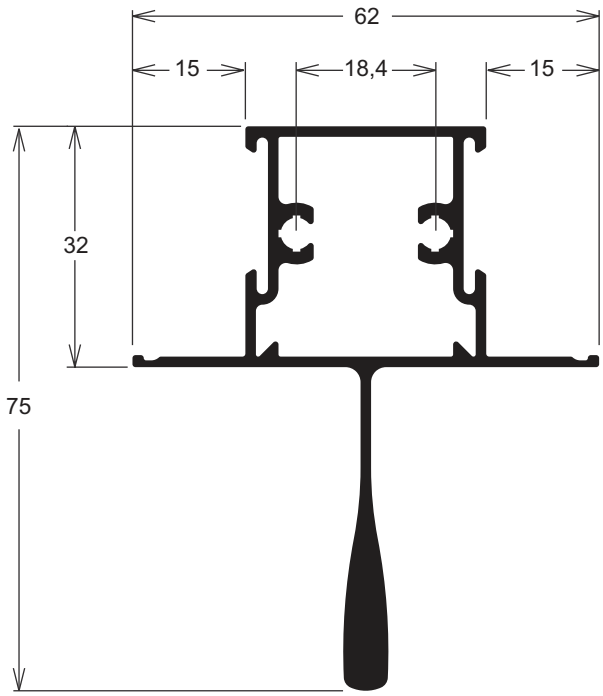
LG074 0,760 kg/m



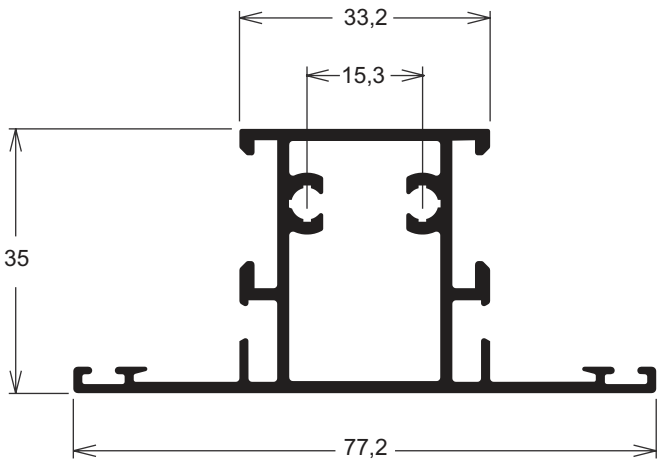
LG075 1,153 kg/m



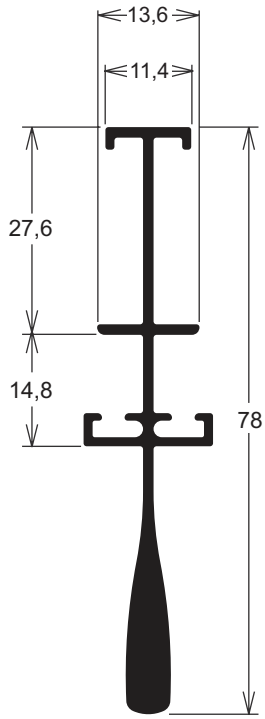
LG080 1,160 kg/m



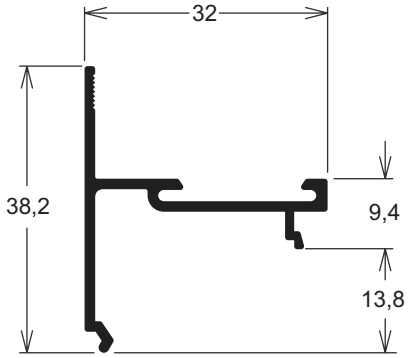
LG104 1,023 kg/m



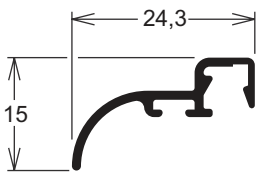
LG093 0,706 kg/m



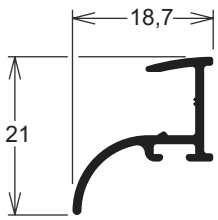
LG077 0,326 kg/m



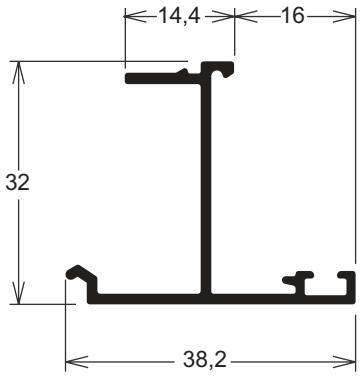
LG091 0,151 kg/m



LG092 0,158 kg/m

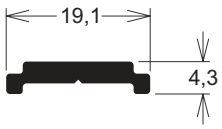


LG082 0,356 kg/m

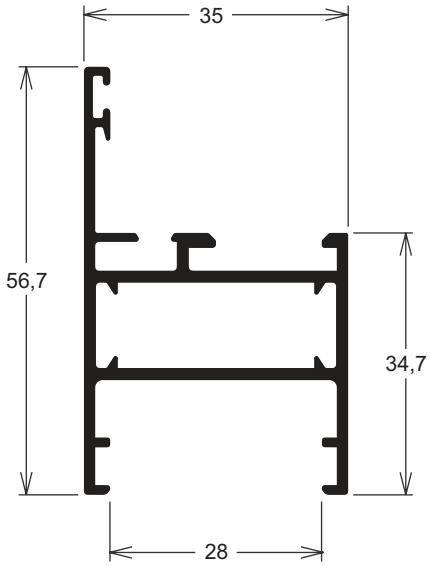


ABRE-TOMBA

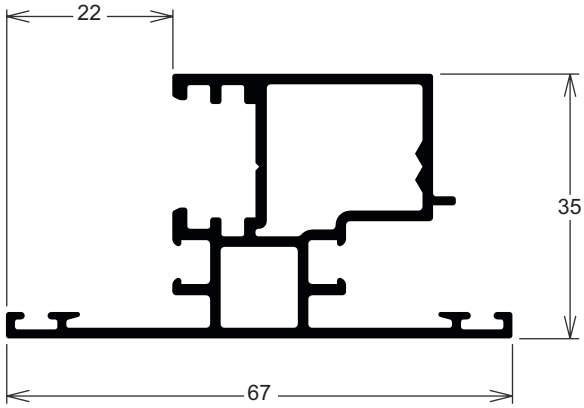
RO016 0,146 kg/m



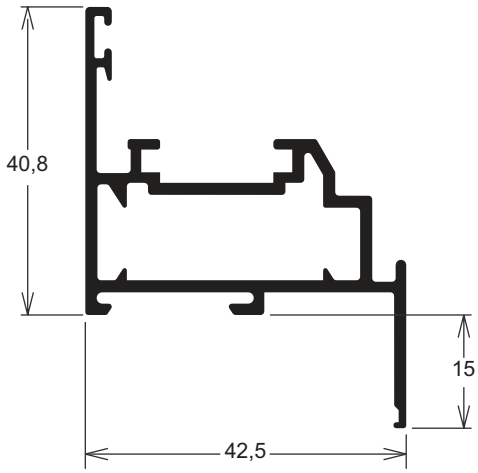
LG103 0,788 kg/m



LG165 0,927 kg/m

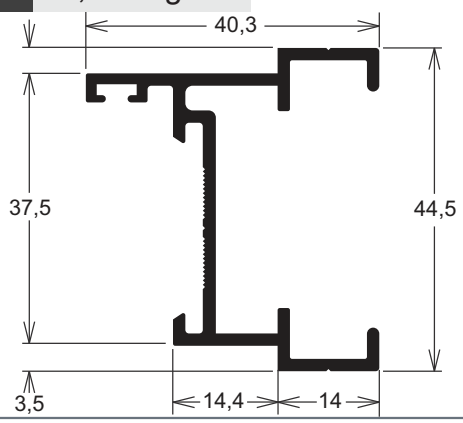


LG099 0,792 kg/m

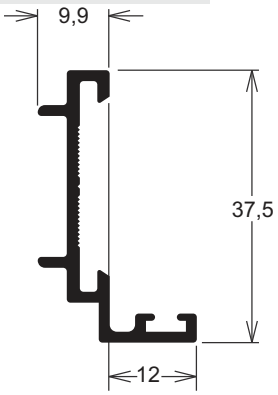


TIPOLOGIA DE GIRO

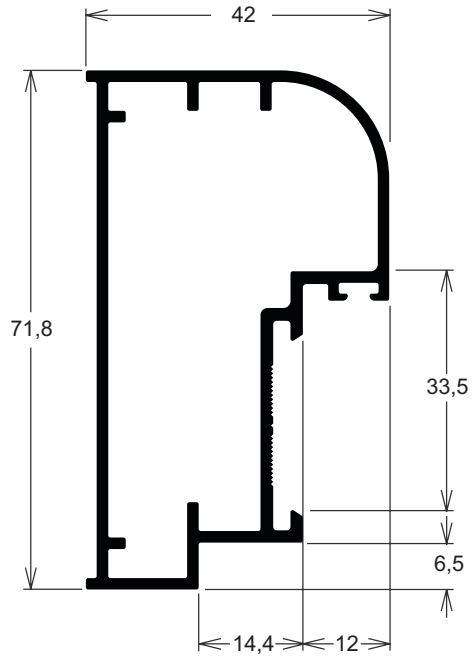
LG056 0,643 kg/m



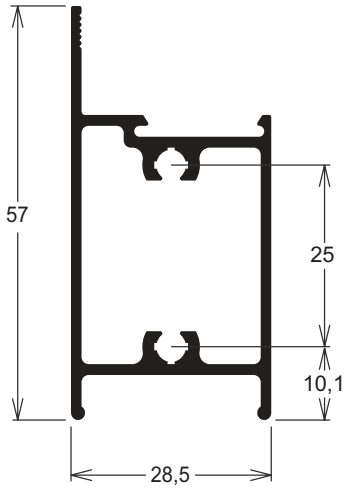
LG016 0,338 kg/m



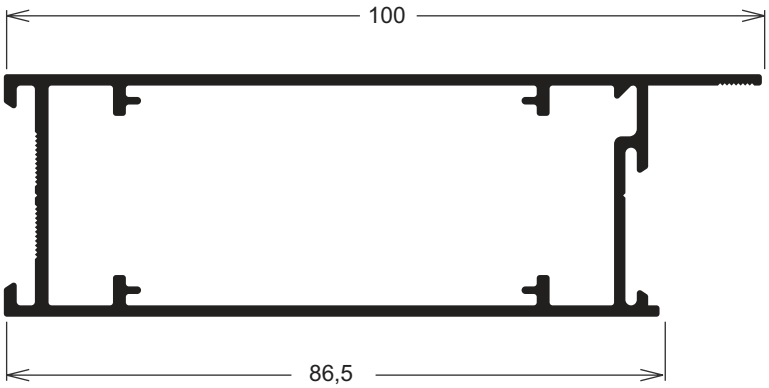
LG175 1,087 kg/m



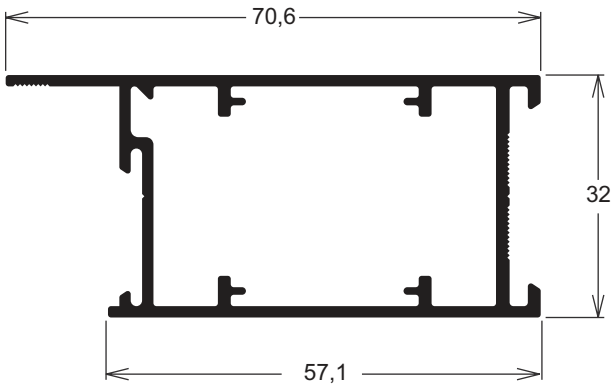
LG058 0,759 kg/m



LG042 1,169 kg/m

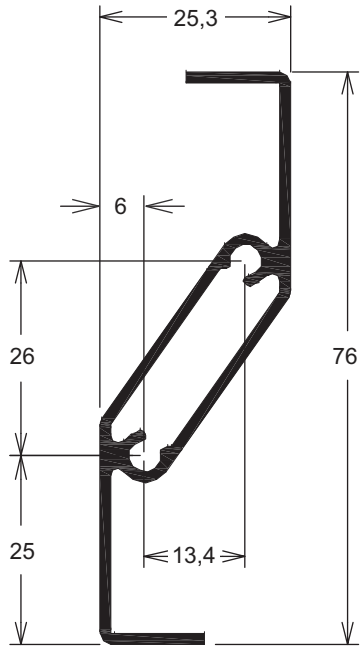


LG043 0,930 kg/m

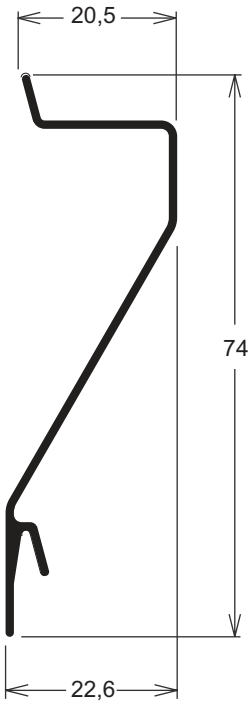


VENEZIANAS

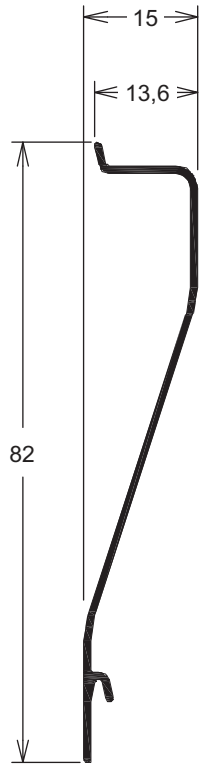
LG037 0,651 kg/m



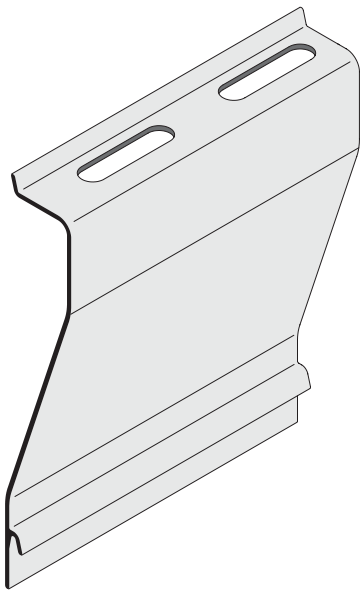
VZ074 0,298 kg/m



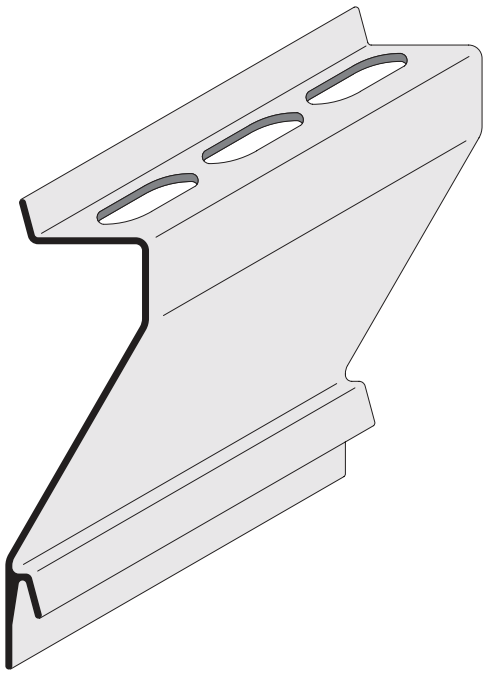
VZ075 0,259 kg/m



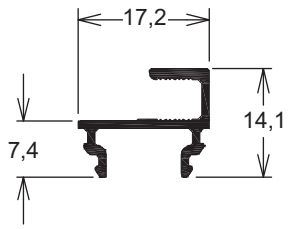
US621 0,259 kg/m



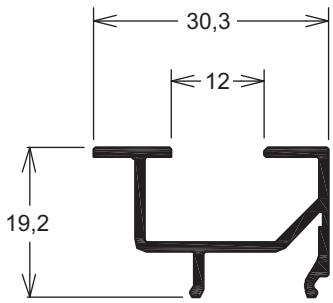
US622 0,298 kg/m



MH153 0,148 kg/m

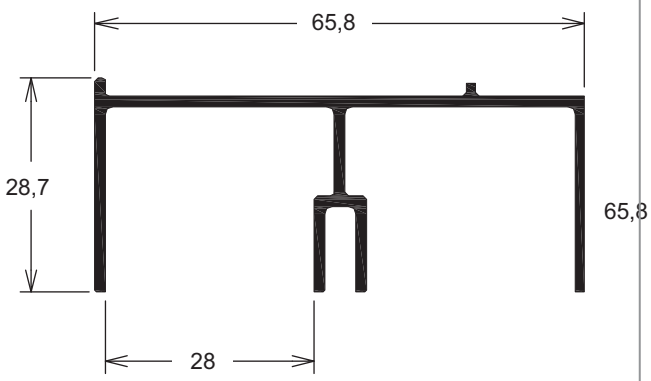


LG041 0,259 kg/m

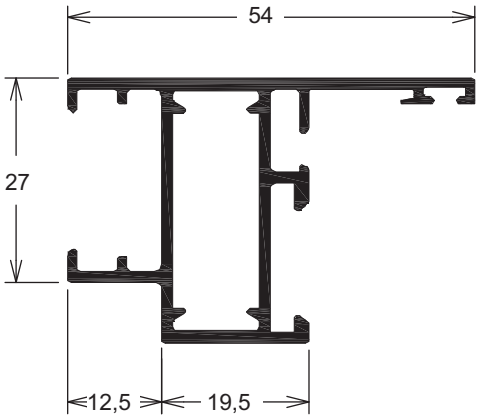


RENOVA

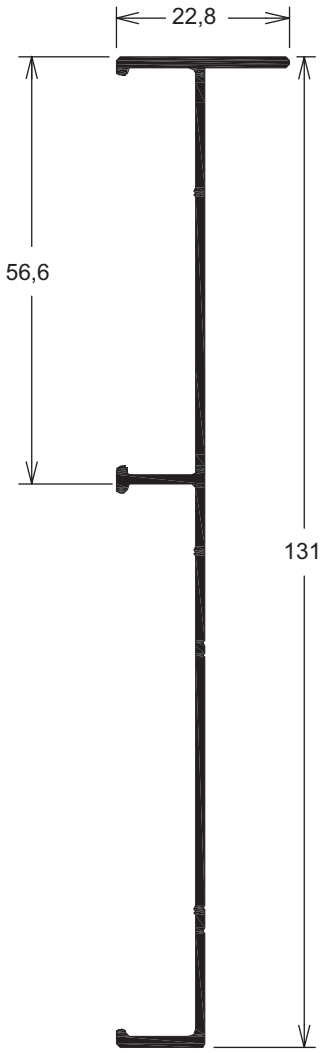
LG242 0,616 kg/m



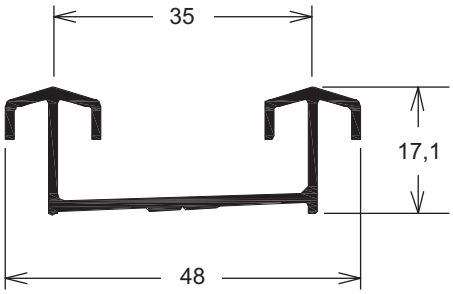
LG240 0,774 kg/m



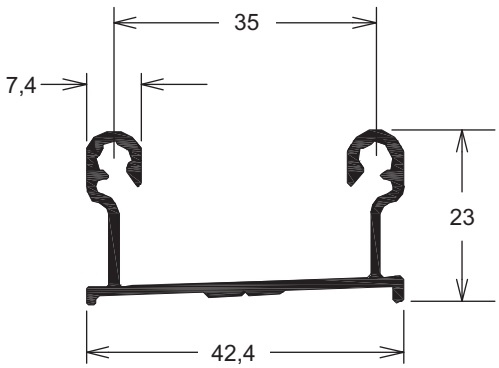
LG239 0,674 kg/m



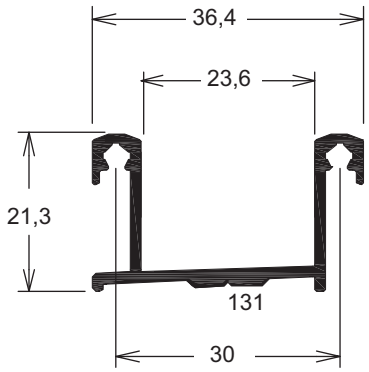
LG241 0,391 kg/m



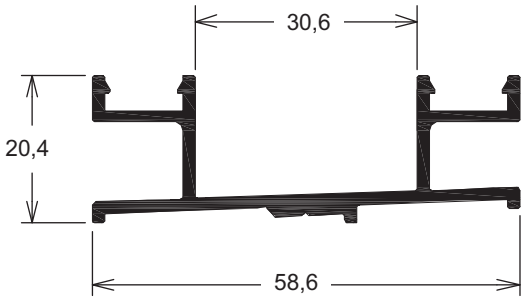
LG237



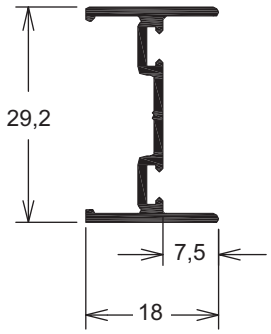
MH211 0,368 kg/m



LG244 0,616 kg/m

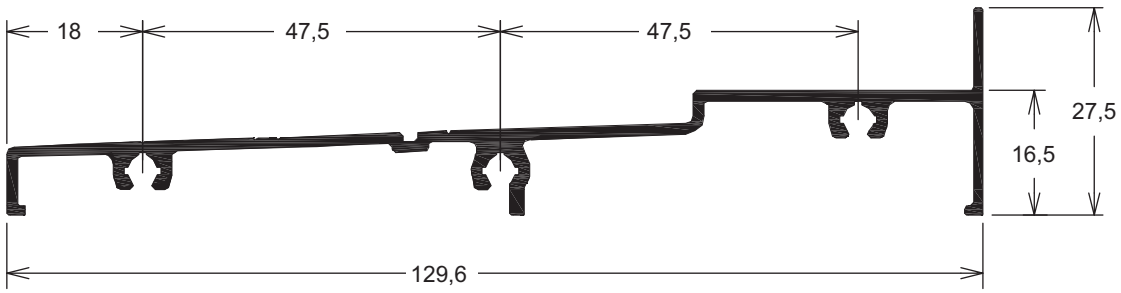


LG243 0,245 kg/m



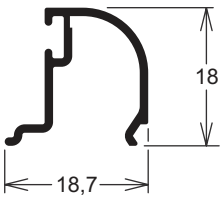
LG238 0,864 kg/m

58,6

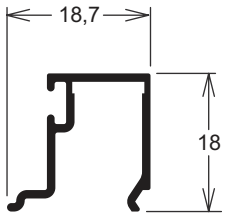


BAGUETES

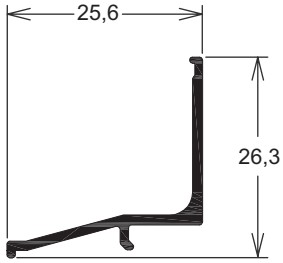
LG026 0,158 kg/m



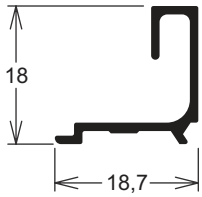
BG057 0,170 kg/m



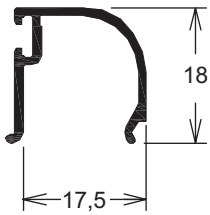
LG108 0,178 kg/m



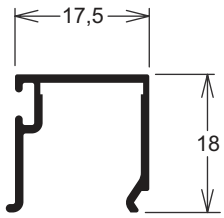
LG027 0,149 kg/m



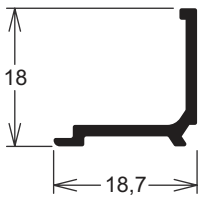
LG164 0,160 kg/m



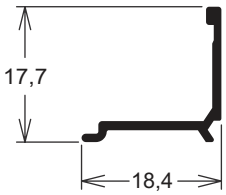
LG059 0,169 kg/m



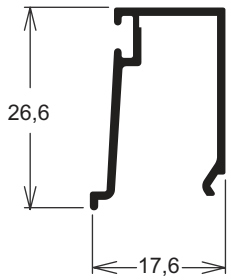
LG015 0,147 kg/m



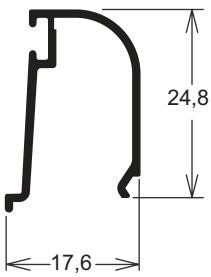
LG107 0,112 kg/m



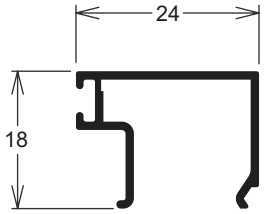
LG105 0,212 kg/m



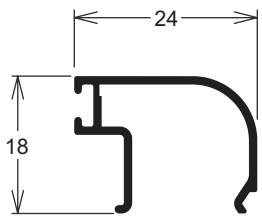
LG109 0,202 kg/m



LG106 0,202 kg/m



LG100 0,191 kg/m



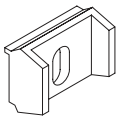

IV
GOLD®

Componentes

Componentes

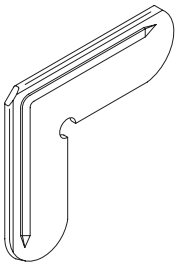
NYL190

Botão de Fixação do Remate
Nylon Preto



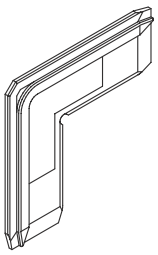
CON433

Conexão de Alinhamento
Nylon Preto



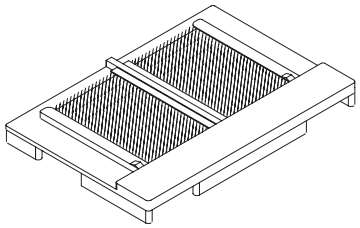
NYL482

Conexão de Alinhamento
Nylon Preto



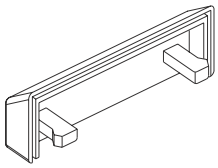
NYL395

Vedação Inferior
Nylon Branco ou Preto



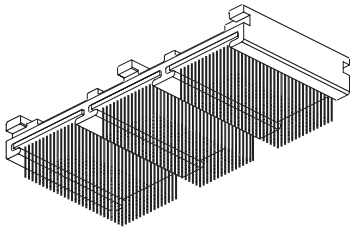
NYL483

Protetor de Saída d'água
Nylon Preto



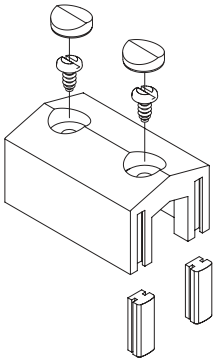
CON381

Vedação Superior
Nylon Branco ou Preto



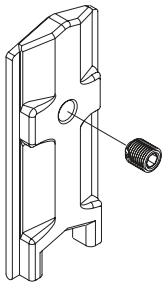
NYL398

Batedeira
Nylon Branco ou Preto



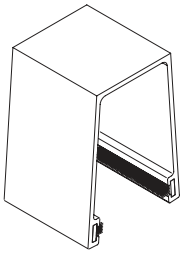
NYL396

Guia e Limitador Superior
Nylon Branco ou Preto



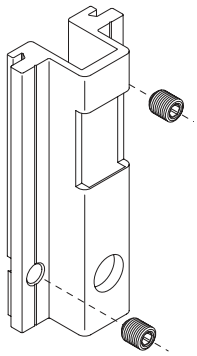
CAL929

Calço Vedante do Montante
Alumínio Natural



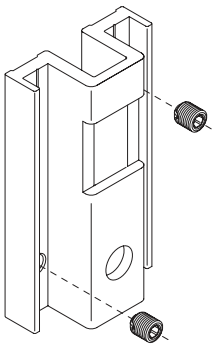
CON384

Contratesta Central para Fechadura
Alumínio Branco ou Preto



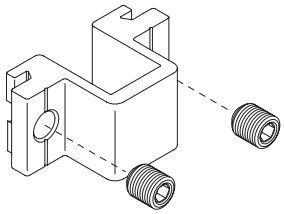
CON382

Contratesta Lateral para Fechadura
Alumínio Branco ou Preto



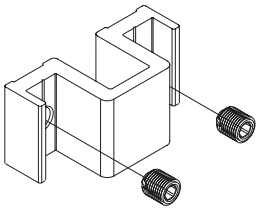
CON385

Contrafecho Central
Alumínio Branco ou Preto



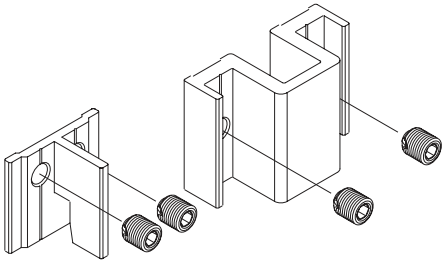
CON383

Contrafecho Lateral
Alumínio Branco ou Preto



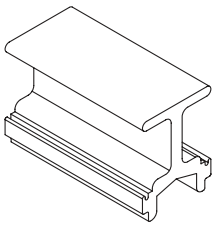
SUP622

Trava da Folha Fixa
Alumínio Preto



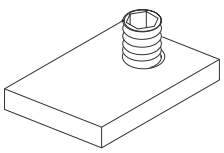
NYL394

Calço para Folha Fixa
Nylon Preto



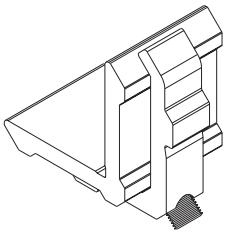
CAL946

Calço com Regulagem
Alumínio e Nylon



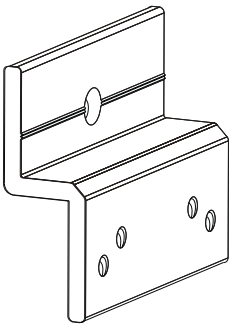
CON437

Conexão com Parafuso
Alumínio



SUP675

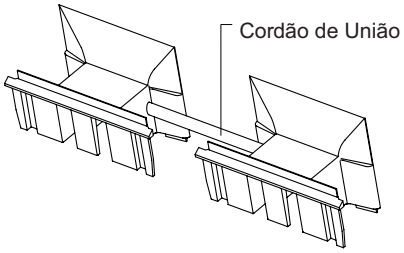
Suporte para Fixação do Perfil 3M019
Alumínio Branco ou Preto



Componentes

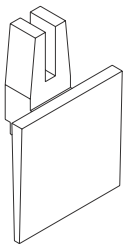
GUA379

Tampa Reversível Externa
EPDM Preto



NYL484

Tampa Reversível Interna
Nylon Preto

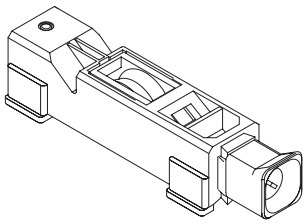


NYL042

Botão Tampa Furo
Nylon Branco ou Preto

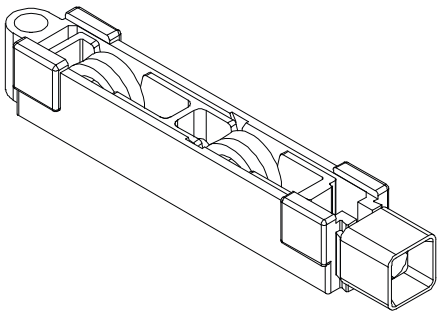
ROL012

Roldana com Reg. e com Rolam.
Capacidade: 40 kg/folha



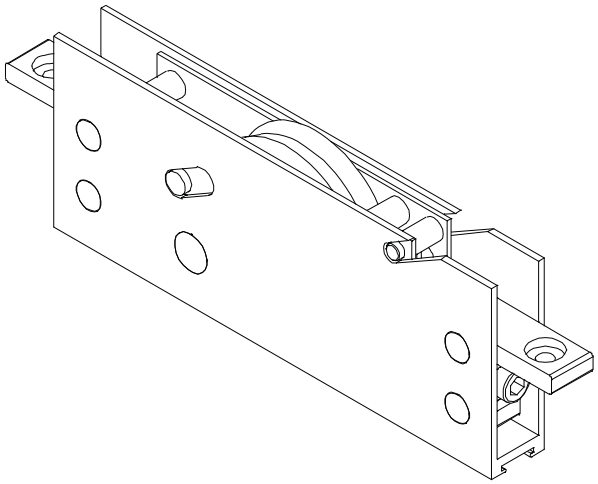
ROL013

Roldana Dupla com Reg. e Rolam.
Capacidade: 80 kg/folha



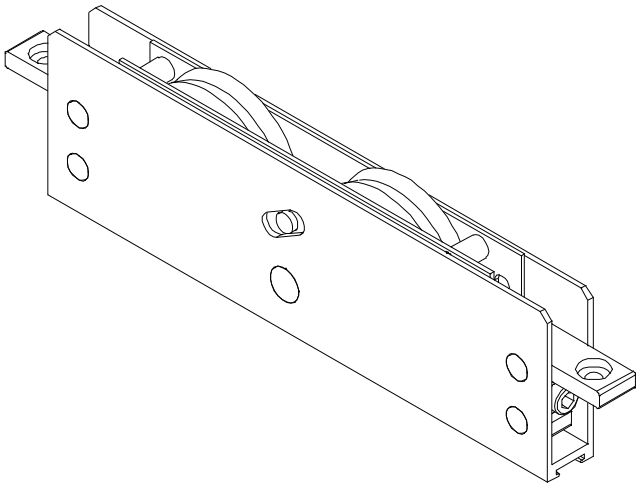
ROL014

Roldana Simples com Reg. e Rolam.
Capacidade: 120 kg/folha



ROL015

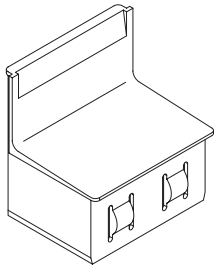
Roldana Dupla com Reg. e Rolam.
Capacidade: 240 kg/folha



Componentes

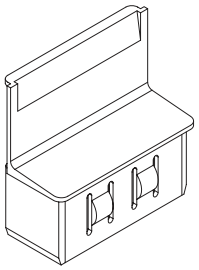
NYL399

Tampa do Montante LG052/LG054
Nylon Branco ou Preto



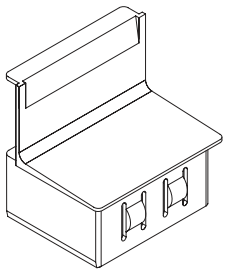
NYL401

Tampa do Montante LG018
Nylon Branco ou Preto



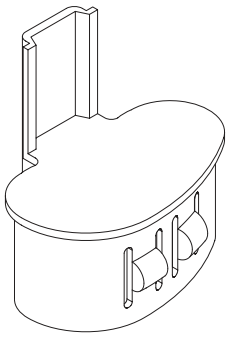
NYL402

Tampa do Montante LG053
Nylon Branco ou Preto



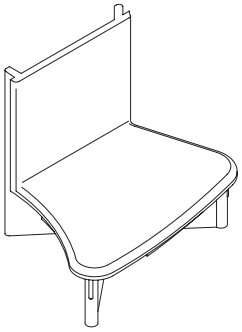
NYL400

Tampa do Montante LG021
Nylon Branco ou Preto



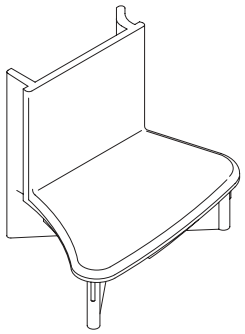
NYL472

Tampa do Montante LG127
Nylon Branco ou Preto



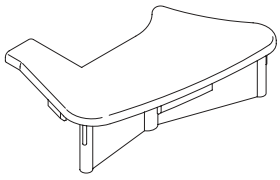
NYL473

Tampa do Montante LG136
Nylon Branco ou Preto



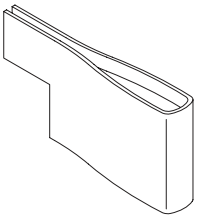
NYL471

Tampa do Montante LG141
Nylon Branco ou Preto



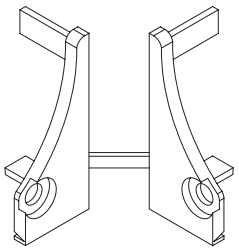
NYL449

Tampa de Recobrimento
Nylon Preto



NYL416

Recobrimento da Soleira
Porta de Correr
Nylon Preto



Componentes

REC030

Recolhedor
Capacidade:18 kg
Eixo 40 mm

REC013

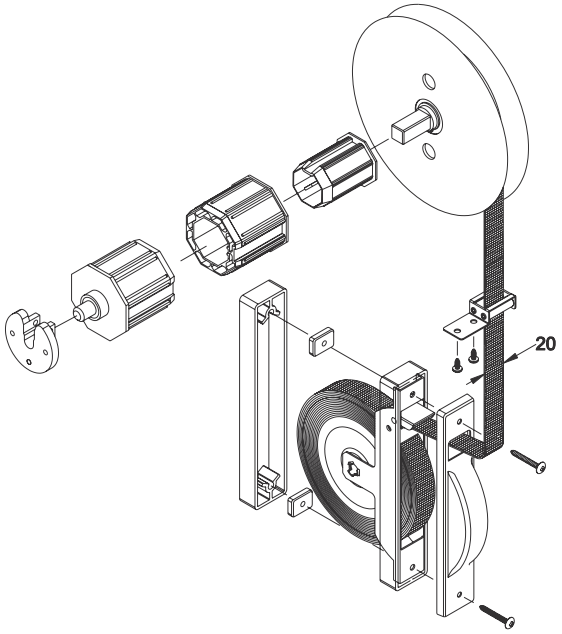
Recolhedor
Capacidade:18 kg
Eixo 60 mm

REC036

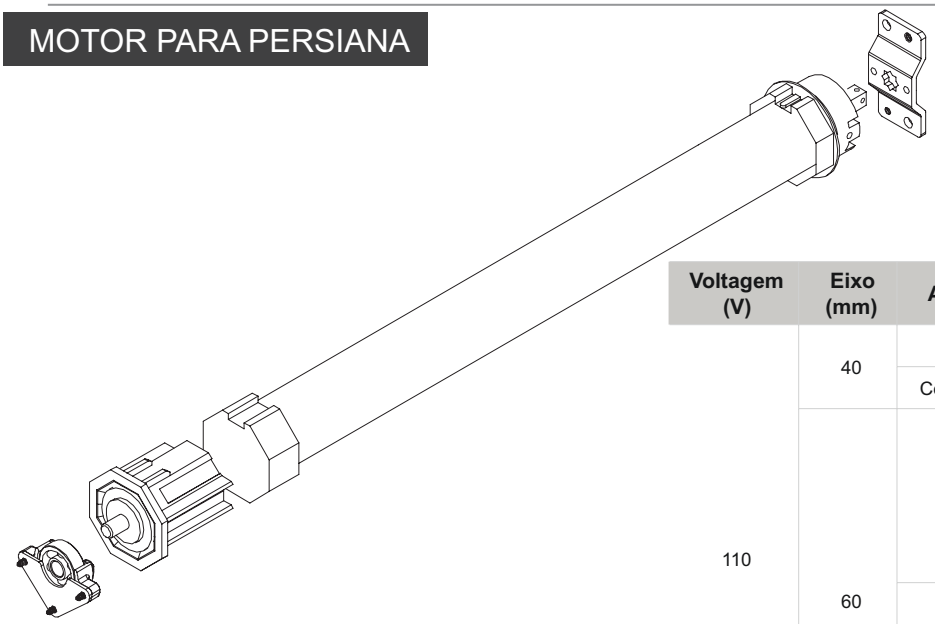
Recolhedor
Capacidade:11 kg
Eixo 60 mm

REC035

Recolhedor
Capacidade:11 kg
Eixo 40 mm

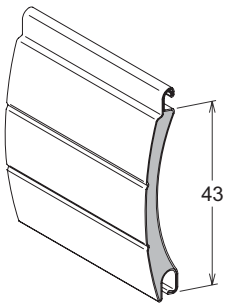


MOTOR PARA PERSIANA



Voltagem (V)	Eixo (mm)	Acionamento	Carga (kg)	Código Hydro
110	40	Botoeira	21	SKT001BA14
		Controle RemotoS		KT001CB14
	60	Botoeira	21	SKT001BA16
			47	SKT004BA16
			70	SKT005BA16
			116	SKT006BA16
		Controle Remoto	21	SKT001CB16
			35	SKT008CB16
			70	SKT010CB16
			93	SKT011CB16
			116	SKT012CB16
220	40	Botoeira	21	SKT001BA24
		Controle RemotoS		KT001CB24
	60	Botoeira	21	SKT001BA26
			47	SKT004BA26
			66	SKT005BA26
			88	SKT006BA26
		Controle Remoto	21	SKT001CB26
			33	SKT008CB26
			42	SKT009CB26
			66	SKT010CB26
			88	SKT011CB26

VZP045 / VZ122



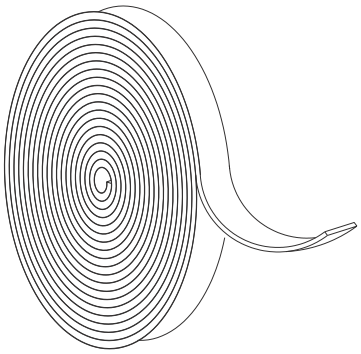
NYL477

Nota - Utilizar somente com palheta VZP045/VZC122

Tabela Palhetas	
VZP0450BCO	PALHETA INTEGRADA VENTILADA A43 - BRANCA (MT)
VZP0450BGE	PALHETA INTEGRADA VENTILADA A43 - BEGE (MT)
VZP0450BZE	PALHETA INTEGRADA VENTILADA A43 - BRONZE (MT)
VZP0450INX	PALHETA INTEGRADA VENTILADA A43 - INOX (MT)
VZP0450PTA	PALHETA INTEGRADA VENTILADA A43 - PRATA (MT)
VZP0450PTO	PALHETA INTEGRADA VENTILADA A43 - PRETA (MT)
VZC1220BCO	PALHETA INTEGRADA CEGA A43 - BRANCA (MT)
VZC1220BGE	PALHETA INTEGRADA CEGA A43 - BEGE (MT)
VZC1220BZE	PALHETA INTEGRADA CEGA A43 - BRONZE (MT)
VZC1220INX	PALHETA INTEGRADA CEGA A43 - INOX (MT)
VZC1220PTA	PALHETA INTEGRADA CEGA A43 - PRATA (MT)
VZC1220PTO	PALHETA INTEGRADA CEGA A43 - PRETO (MT)

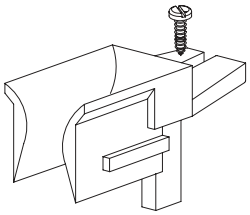
FIT247

Fita de Ligação da Persiana
Nylon Preto



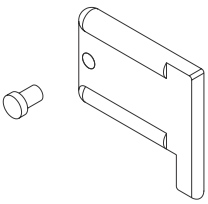
NYL370

Guia da Persiana
Nylon Preto



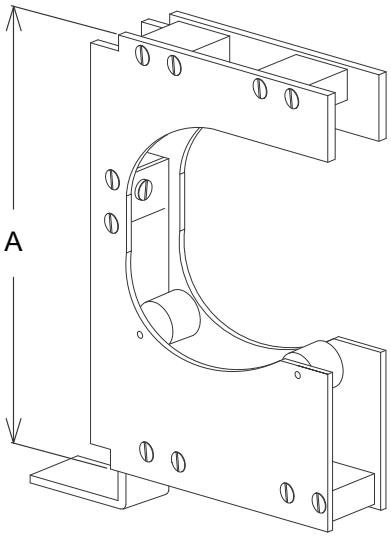
NYL369

Guia e Limitador
Nylon Branco ou Preto



SUP612/613

Mancal para Persiana

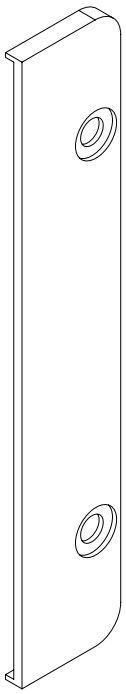


Altura do Mancal da Persiana

Código	A(mm)
612	180
613	163

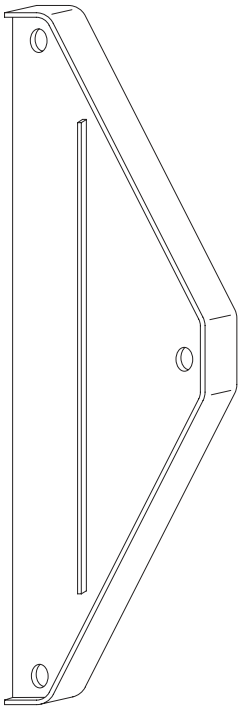
NYL382

Tampa da Caixa Janela Integrada
Nylon Branco ou Preto



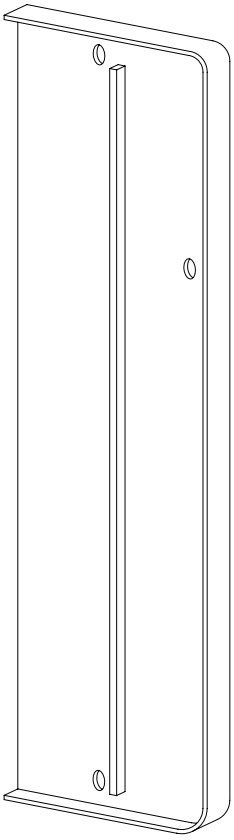
NYL371

Tampa da Caixa Janela Integrada
ABS Branco ou Preto



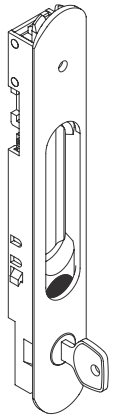
NYL481

Tampa da Caixa
Porta Integrada
Nylon Branco ou Preto



FEC / CON

Obs: Todos os fechos e conchas com chave abaixo utilizam ligueta TRA003

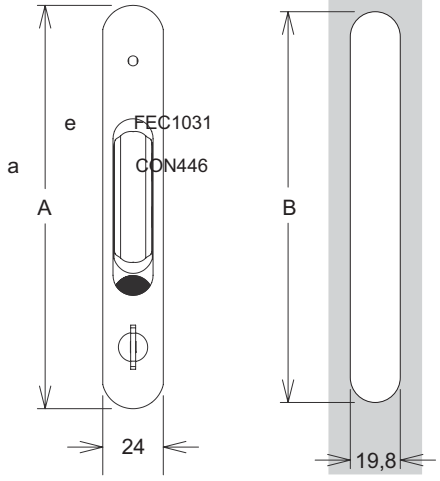


	Janelas	Portas
Fecho Concha	FEC1032	FEC1034
Concha com Chav		FEC1033
Concha Ceg		CON447

Alumínio Branco ou Preto

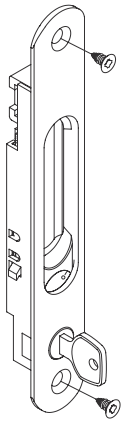
Medidas das usinagens	Janelas	Portas
A	160	192
B	155	187

Usinagem



FEC / CON

Obs: Todos os fechos e conchas com chave abaixo utilizam ligueta TRA003

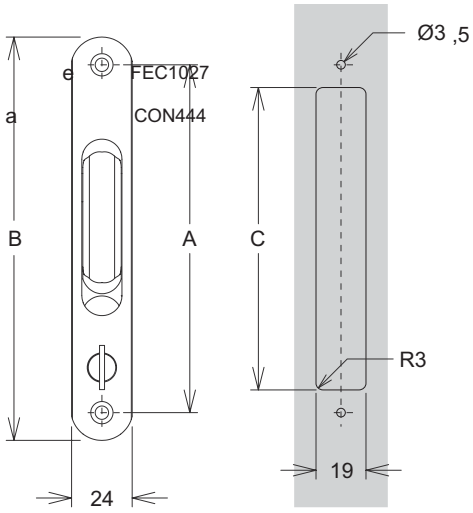


	Janelas	Portas
Fecho Concha	FEC1028	FEC1030
Concha com Chav		FEC1029
Concha Ceg		CON445

Alumínio Branco ou Preto

Medidas das usinagens	Janelas	Portas
A	138	170
B	160	192
C	120	120

Usinagem

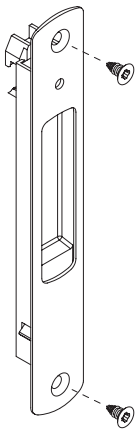


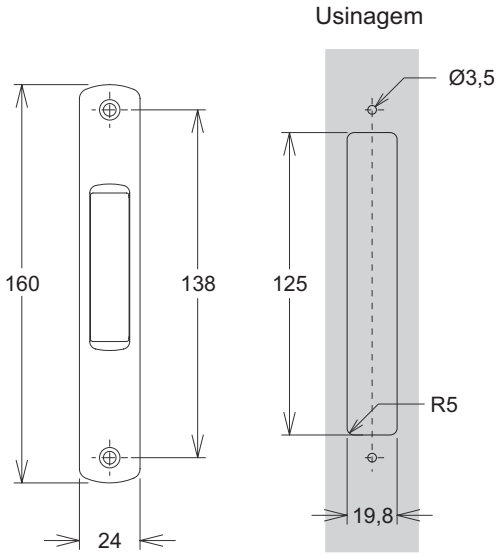
FEC1026

Fecho Concha - Alumínio Branco ou Preto
(Utiliza lingueta TRA016)

CON443

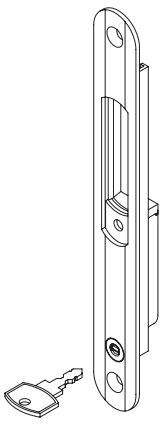
Concha Cega
Alumínio Branco ou Preto





Nota - Utilizar somente com palheta
VZP045/VZC122

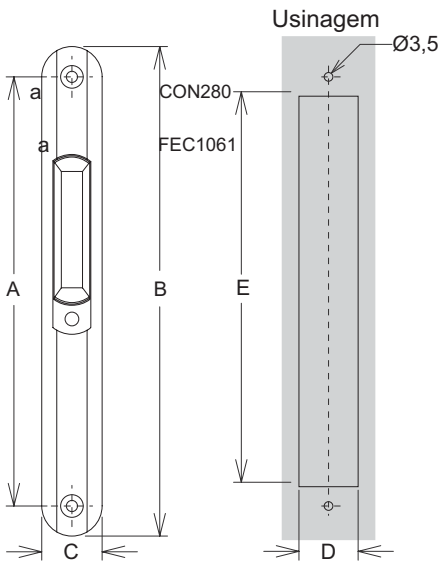
FEC / CON / TRA



	Janelas	Portas
Fecho Concha com Chave	FEC1064	FEC1062
Fecho Conch		FEC1063
Concha Ceg		FEC1013
Lingueta	TRA017	TRA013

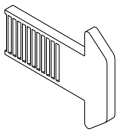
Alumínio Branco ou Preto

Medidas das usinagens	Janelas	Portas
A	138	170
B	153	194
C	26	24
D	20,5	20
E	120	142



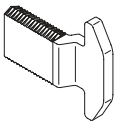
TRA003

Trava para Fecho
Aço Inox



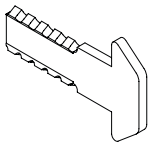
TRA013

Trava para Fecho
Zamac



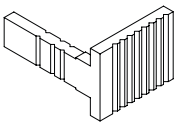
TRA016

Trava para Fecho
Aço Inox



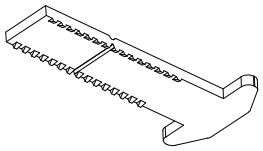
CON110

Conexão para Fecho Duplo
Interno e Externo
Zamac



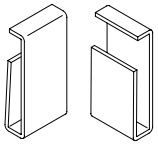
TRA017

Trava para Fecho
Aço Inox



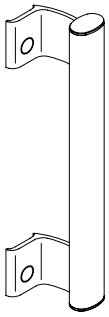
CON463

Capa para Contrafecho
Aço Inox



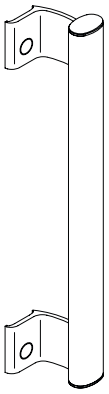
PUX152

Puxador 245 mm
Porta de Correr
Alumínio Fosco, Branco ou Preto



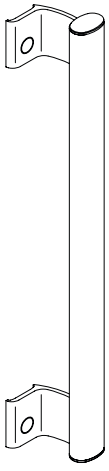
PUX154

Puxador 400 mm
Porta de Correr
Alumínio Fosco, Branco ou Preto



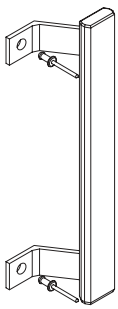
PUX156

Puxador 600 mm
Porta de Correr
Alumínio Fosco, Branco ou Preto



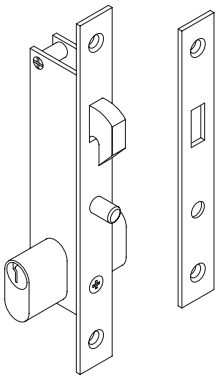
PUX006

Puxador 200 mm
Porta de Correr
Alumínio Branco ou Preto



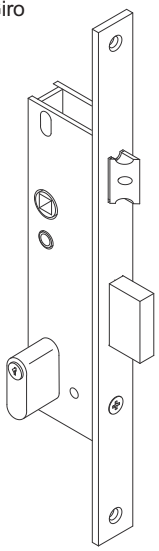
FRA996

Fechadura
Porta de Correr
Latão Branco, Fumê ou Cromado



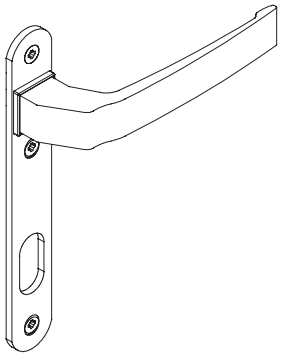
FRA990

Fechadura - Porta de Giro
Latão Fumê



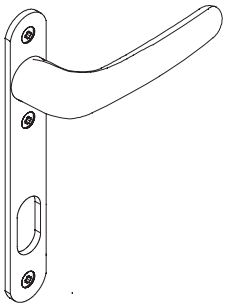
MAC1001

Maçaneta com Espelho
Alumínio Branco ou Preto



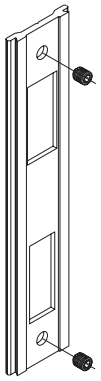
MAC1029

Maçaneta com Espelho
Alumínio Branco ou Preto



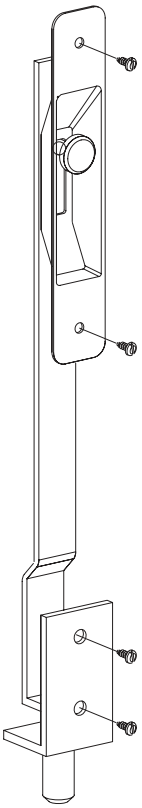
CON386

Contratesta
Alumínio Branco ou Preto



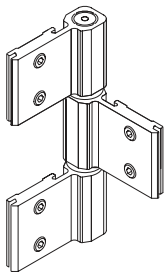
FEC509

Fecho Leve Toque
Aço Inox



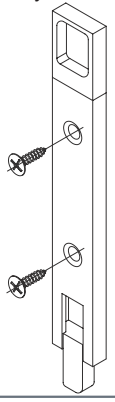
DOB828

Dobradiça 3 Abas
Alumínio Branco ou Preto



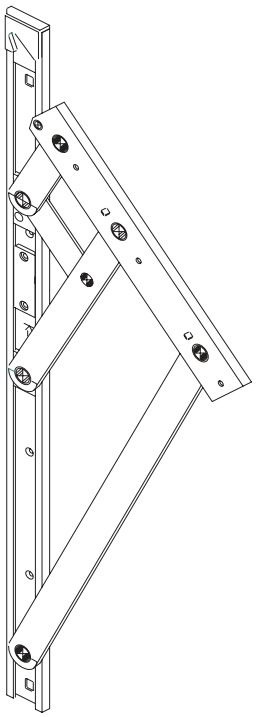
FEC338

Fecho Unha
Alumínio e Nylon Branco ou Preto



BRAÇO

Janela Maxim-ar



	Dimensão	Altura da Folha	Carga Máxima
PIV756	222	Min:230 Máx:400	20 kg

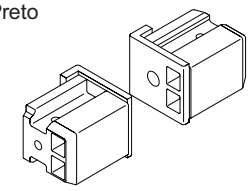
Alumínio Preto

BRA766	342	Min:435 Máx:600	22 kg
BRA767	600	Min:690 Máx:1000	30 kg
BRA768	951	Min:1040 Máx:1200	36 kg

Alumínio Branco, Preto ou Fosco

CON434

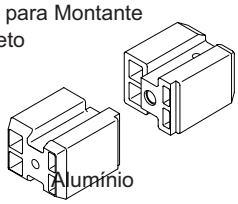
Conexão para Montante
Nylon Preto



Dimensão

CON435

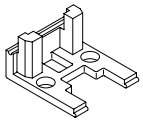
Conexão para Montante
Nylon Preto



Alumínio

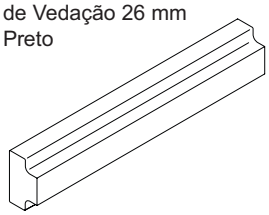
CON436

Conexão para Montante
Nylon Branco ou Preto



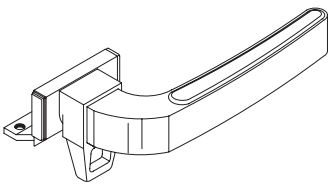
CAL945

Calço de Vedação 26 mm
Nylon Preto



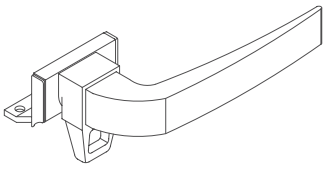
FEC493 (DIR. E ESQ.)

Fecho Punho
Alumínio Branco, Preto ou Fosco



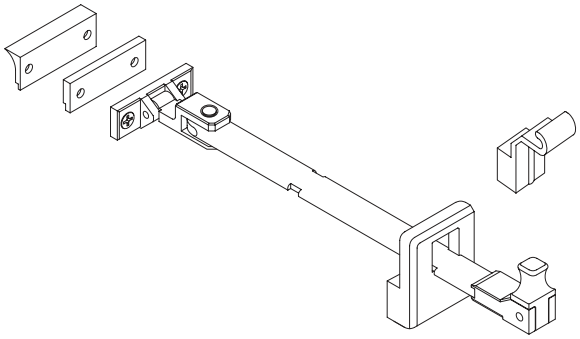
FEC495 (DIR. E ESQ.)

Fecho Punho
Alumínio Branco, Preto ou Fosco



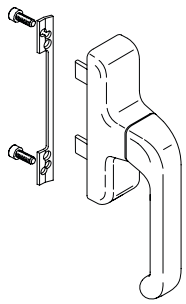
FEC1016

Fecho Haste
Folha com Baguete
Alumínio Branco ou Preto



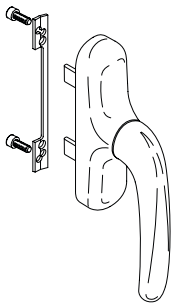
FEC1075

Fecho Cremona
Janela de Giro
Alumínio Branco ou Preto



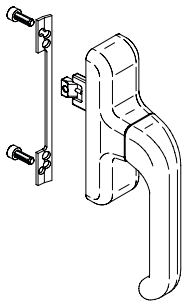
FEC1077

Fecho Cremona
Janela de Giro
Alumínio Branco ou Preto



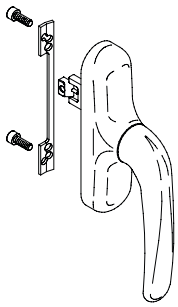
FEC1078

Fecho Cremona
Janela Abre e Tomba
Alumínio Branco ou Preto



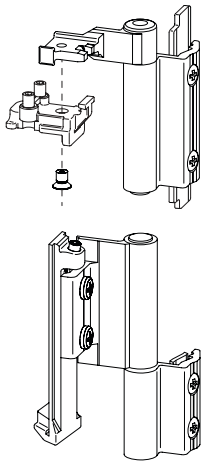
FEC1089

Fecho Cremona
Janela Abre e Tomba
Alumínio Branco ou Preto



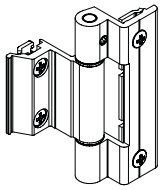
DOB855

Dobradiça Abre e Tomba 2 ª Folha
Alumínio Branco ou Preto



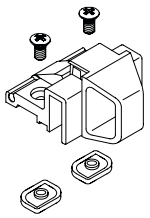
DOB856

Dobradiça
Janela de Giro e Tombar
Alumínio Branco ou Preto



FEC1092

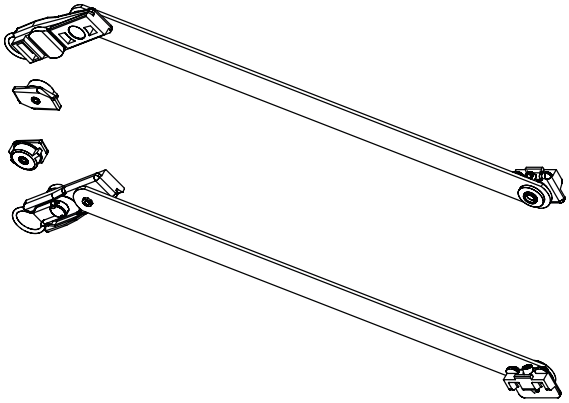
Fecho Gatilho
Janela de Tombar
Alumínio Branco ou Preto



BRA796 (COM 250 MM)

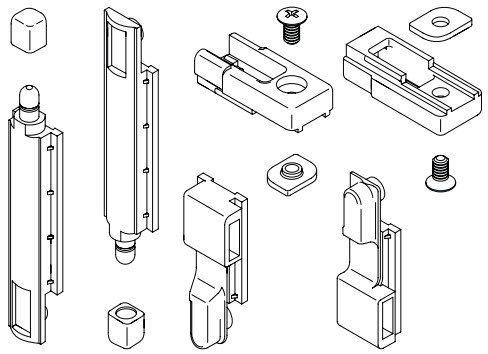
BRA798 (COM 150 MM)

Compasso Janela de Tombar
Alumínio Preto



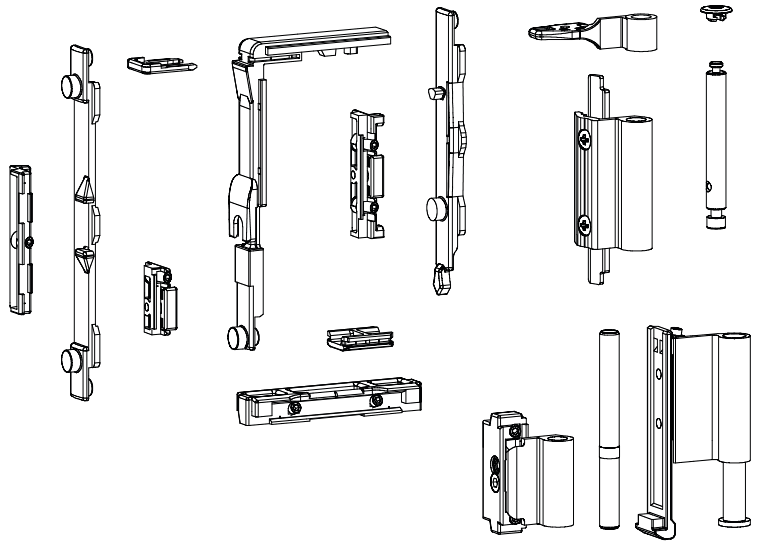
KIT621

Sistema de Travamento
Janela de Giro
Zamac Natural



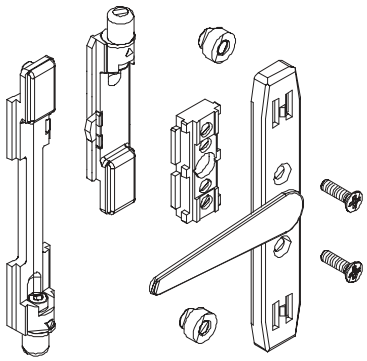
KIT619

Kit Abrir e Tombar 1 Folha
Zamac Natural e Alumínio Branco ou Preto



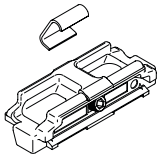
FEC1090

Kit do Fecho Central com Haste
2ª Folha Abre e Tomba e Folha de Giro
Zamac Natural



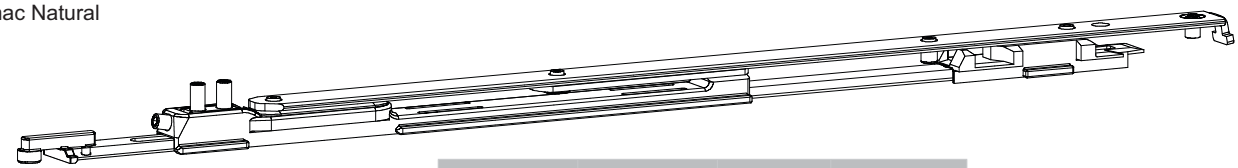
CON464

Contrafecho
Zamac Natural



BRAÇO

Zamac Natural



	Dimensão	Largura da Folha	Carga Máxima	Altura do Marco
BRA793	225	Min:390 Máx:544	50 kg	Máx:1200

Braço Tipo 1

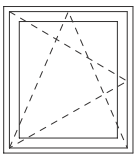
BRA794	365	Min:545 Máx:1000	50 kg	Máx:1200

Braço Tipo 2

Atenção! Para utilização dos componentes acima, ver instruções de montatem na página 161.

KIT PARA JANELA DE ABRIR E TOMBAR - 1 FOLHA

Quant.	Código	Componente
1 pç	Ver pág. 93	Cremona
1 pç	KIT619	Mecanismo Abrir e Tombar
8 pç	CON437	Conexão de Folha e Marco
8 pç	CON433	Conexão de Alinhamento
2 pç	NYL483	Dreno
8 pç	NYL463	Calço para Vidro
4 pç	GUA376	Guarnição Pré-câmara

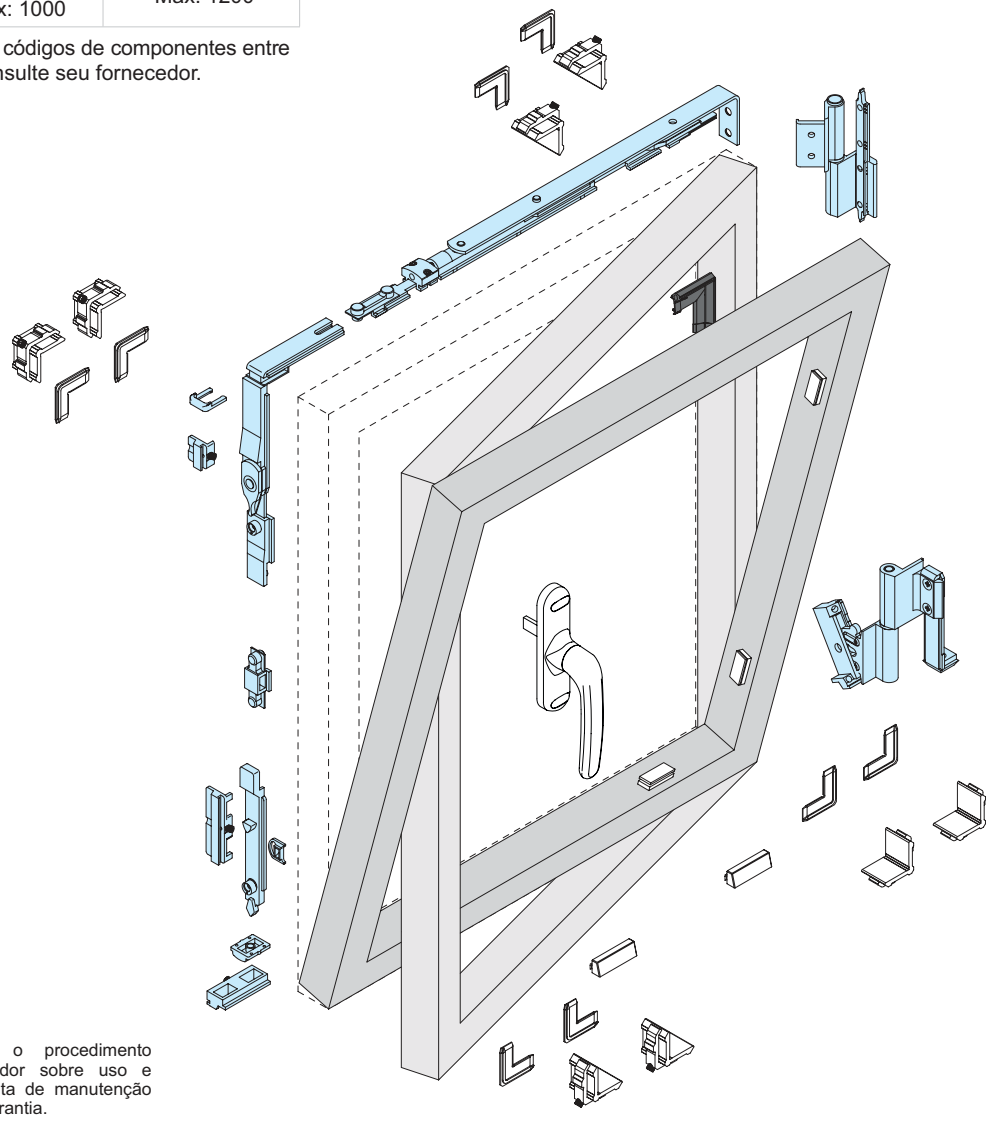


KIT COMPLETO
(inclui cremona padrão)

KITLG01 Larg. da Folha	KITLG02 Larg. da Folha	Altura do Marco
Min: 550 Máx: 900	Min: 901 Máx: 1000	Máx: 1200

BRA793 Larg. da Folha	BRA794 Larg. da Folha	Altura do Marco
Min: 390 Máx: 550	Min: 551 Máx: 1000	Máx: 1200

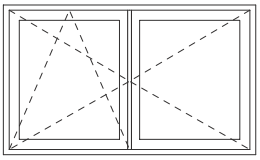
Poderá haver diferença de códigos de componentes entre fabricantes. Consulte seu fornecedor.



Atenção! Utiize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica. A falta de manutenção pode acarretar a perda de garantia.

KIT 2ª FOLHA PARA JANELA DE ABRIR E TOMBAR

Quant.	Código	Componente
2 pç	DOB855	Dobradiça
1 pç	FEC1090	Fecho Unha
4 pç	CON437	Conexão de Folha
4 pç	CON433	Conexão de Alinhamento
2 pç	NYL484	Tampa Reversível
1 pç	GUA379	Tampa Reversível Externa
1 pç	NYL483	Dreno
8 pç	NYL463	Calço de Vidro
1 pç	CON464	Contrafecho

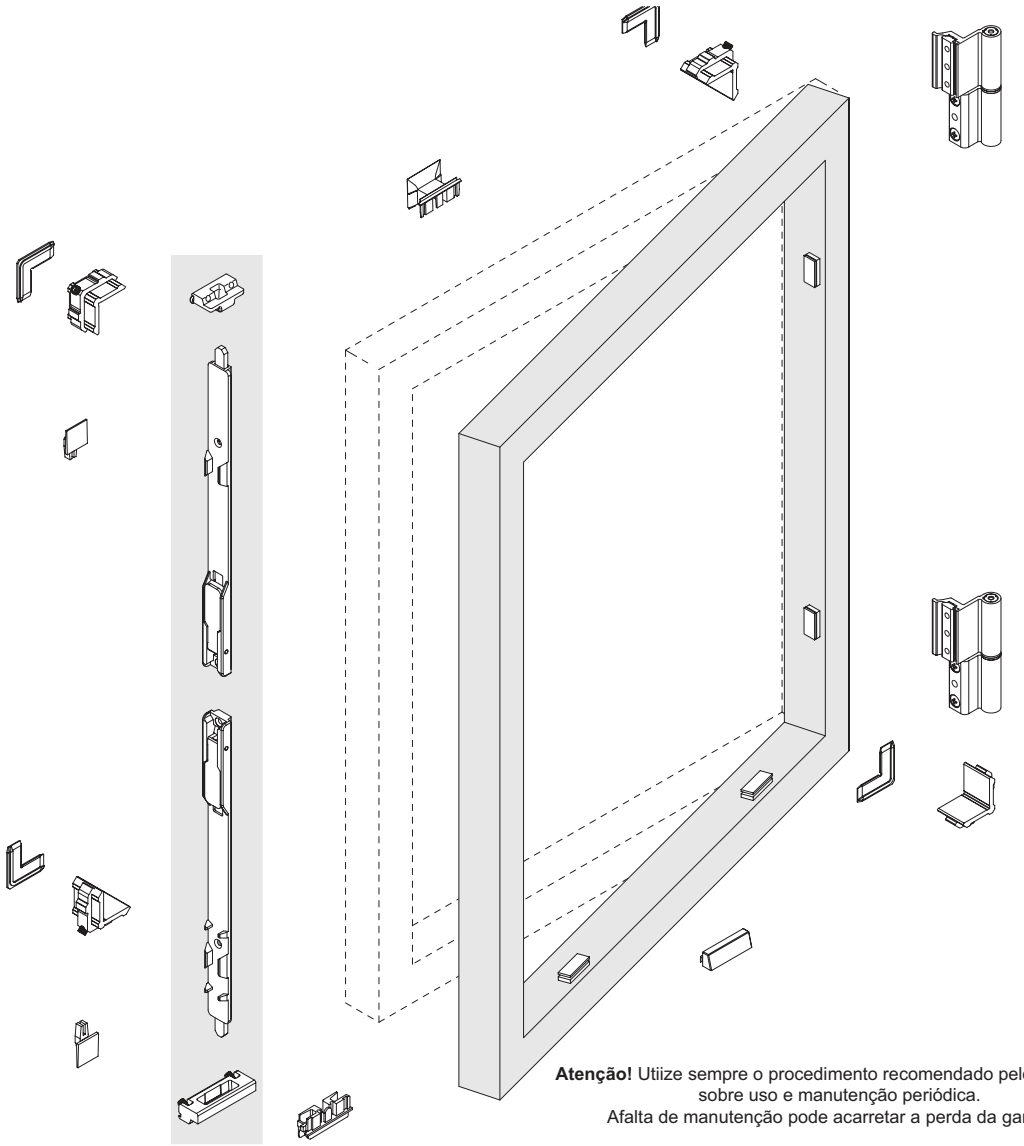


UTILIZAR KITLG001 OU KITLG002

KIT COMPLETO

KITLG03 Larg. da Folha	Altura do Marco
Min: 550 Máx: 1000	Máx: 1200

Peso máximo: 50 kg/folha



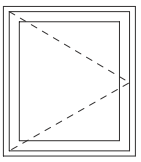
Atenção! Utiize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica.
Afalta de manutenção pode acarretar a perda da garantia.

KIT PARA JANELA DE GIRO - 1 FOLHA

CÓDIGOS INDIVIDUAIS

Quant.	Código	Componente
2 pç	DOB856	Dobradiça
1 pç	Ver pág. 91	Cremona
8 pç	CON437	Conexão de Folha e Marco
8 pç	CON433	Conexão de Alinhamento
2 pç	NYL483	Dreno
8 pç	NYL463	Calço para Vidro
4 pç	GUA376	Guarnição Pré-câmara
1 cj	KIT621	Trava

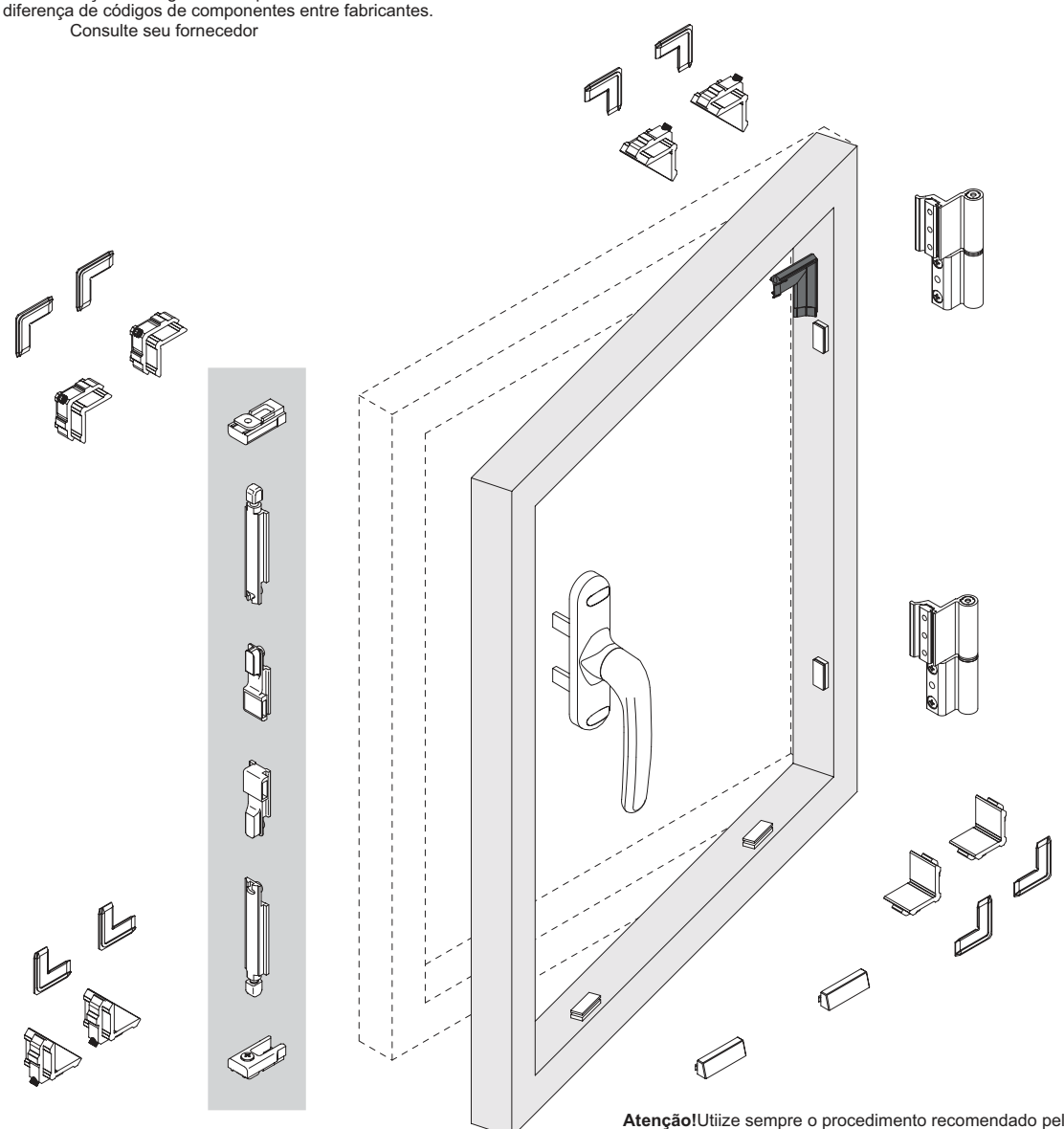
Poderá haver diferença de códigos de componentes
Poderá haver diferença de códigos de componentes entre fabricantes.
Consulte seu fornecedor



KIT COMPLETO
(inclui cremona padrão)

KITLG04 Larg. da Folha	Altura do Marco
Min: 550 Máx: 1000	Máx: 1200

Peso máximo: 50 kg/folha



Atenção!Utiize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica.
Afalta de manutenção pode acarretar a perda da garantia.

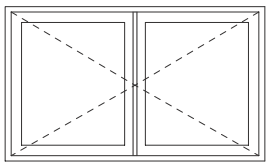
KIT PARA JANELA DE GIRO - 2ªFOLHA

Materiais Diversos - Branco ou Preto

CÓDIGOS INDIVIDUAIS

Quant.	Código	Componente
4 pç	DOB856	Dobradiça
1 pç	Ver pág. 91	Cremona
1 cj	KIT621	Kit Trava
12 pç	CON437	Conexão de Folha e Marco
12 pç	CON433	Conexão de Alinhamento
2 pç	NYL484	Tampa Reversível
1 pç	GUA379	Tampa Reversível Externa
3 pç	NYL483	Dreno
16 pç	NYL463	Calço para Vidro
2 pç	CON464	Contrafecho
1 pç	FEC1090	Fecho Unha

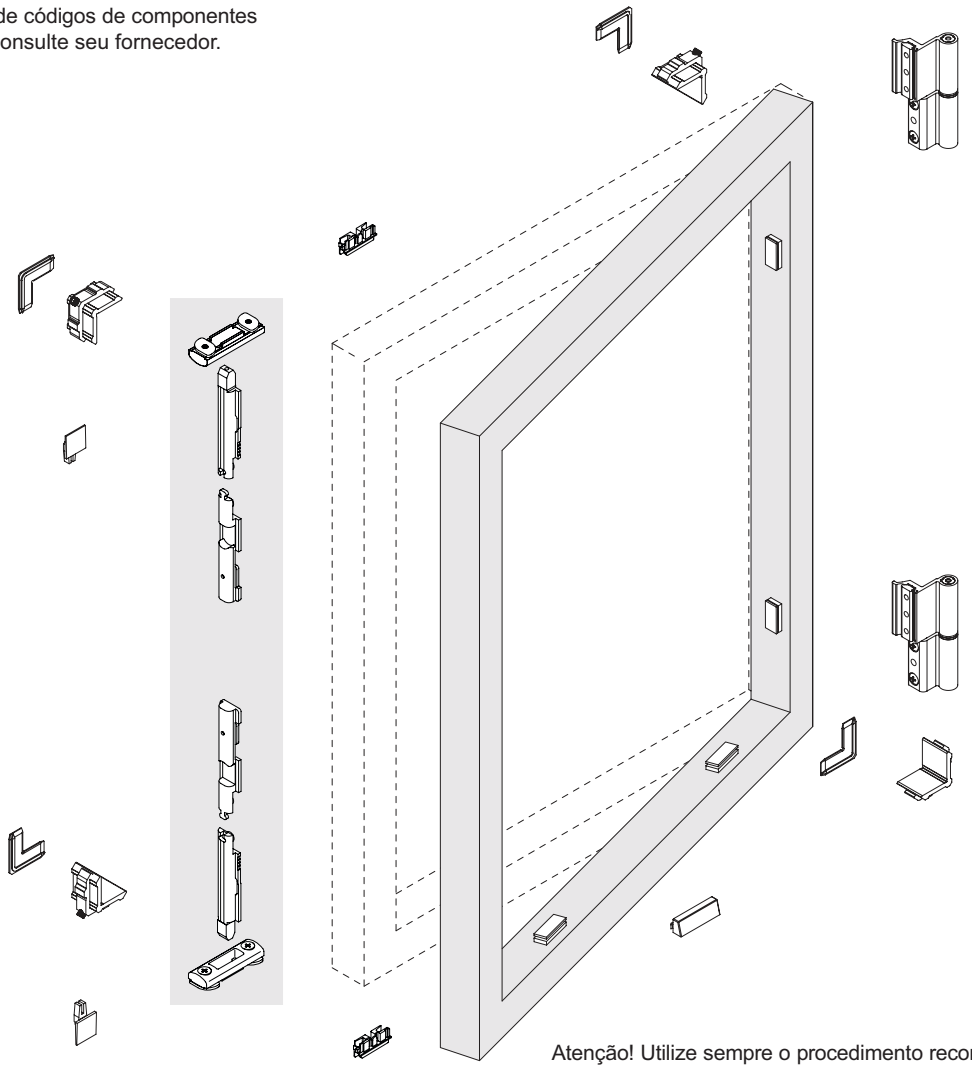
Poderá haver diferença de códigos de componentes entre fabricantes. Consulte seu fornecedor.



KIT COMPLETO

KITLG03 + KITLG04 Larg. da Folha	Altura do Marco
Min: 550 Máx: 1000	Máx: 1200

Peso máximo: 50 kg/folha

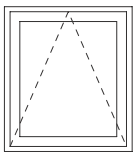


Atenção! Utilize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica.
A falta de manutenção pode acarretar a perda da garantia.

KIT PARA JANELA DE TOMBAR - 1 FOLHA

CÓDIGOS INDIVIDUAIS

Quant.	Código	Componente
2 pç	DOB856	Dobradiça
8 pç	CON437	Conexão de Folha e Marco
8 pç	CON433	Conexão de Alinhamento
1 pç	FEC1092	Fecho Gatilho
2 pç	NYL483	Dreno
8 pç	NYL463	Calço para Vidro
4 pç	GUA376	Guarnição Pré-câmara

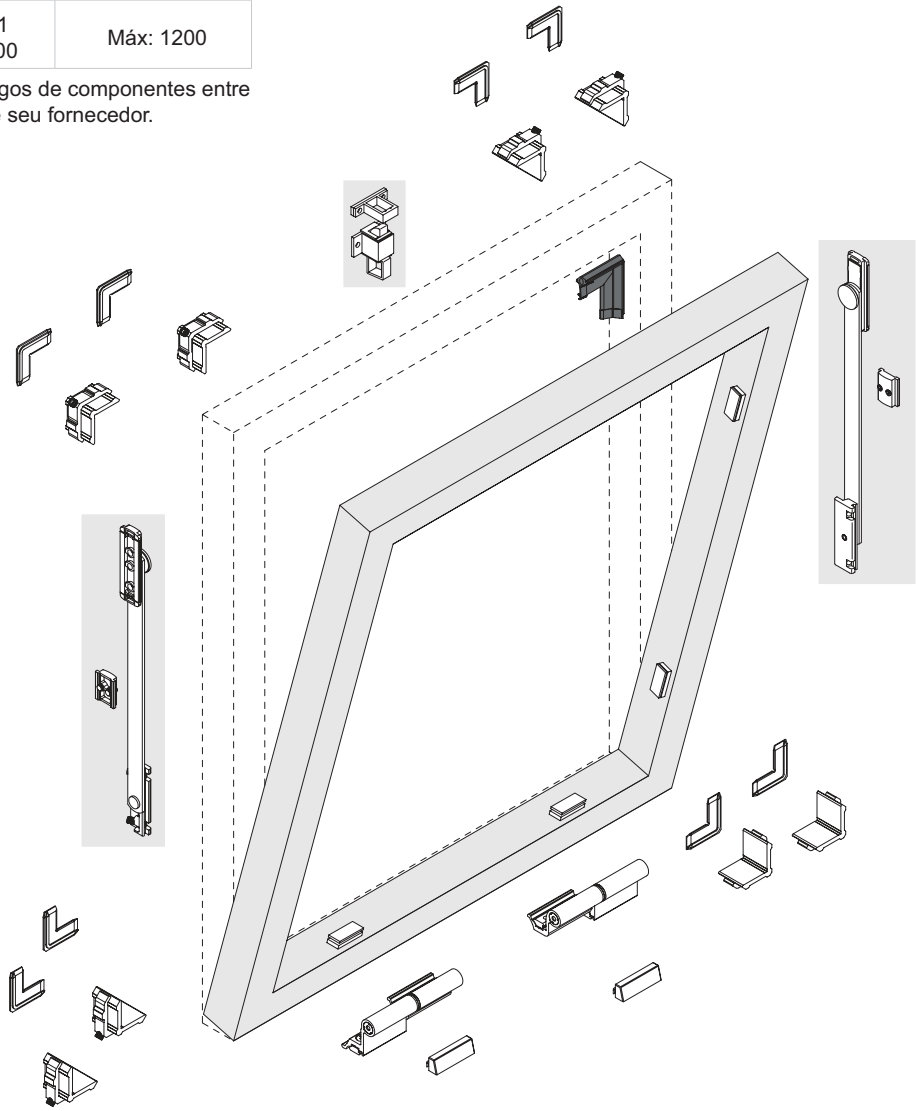


KITLG05 Larg. da Folha	Altura do Marco
Min: 350 Máx: 1000	Máx: 1200

Peso máximo: 50 kg/folha

BRA798 Alt. da Folha	BRA796 Alt. da Folha	Altura do Marco
Min: 200 Máx: 600	Min: 601 Máx: 1200	Máx: 1200

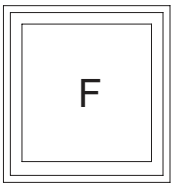
Poderá haver diferença de códigos de componentes entre fabricantes. Consulte seu fornecedor.



Atenção!Utiize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica.
Afalta de manutenção pode acarretar a perda da garantia.

KIT PARA JANELA FIXA

Materiais diversos

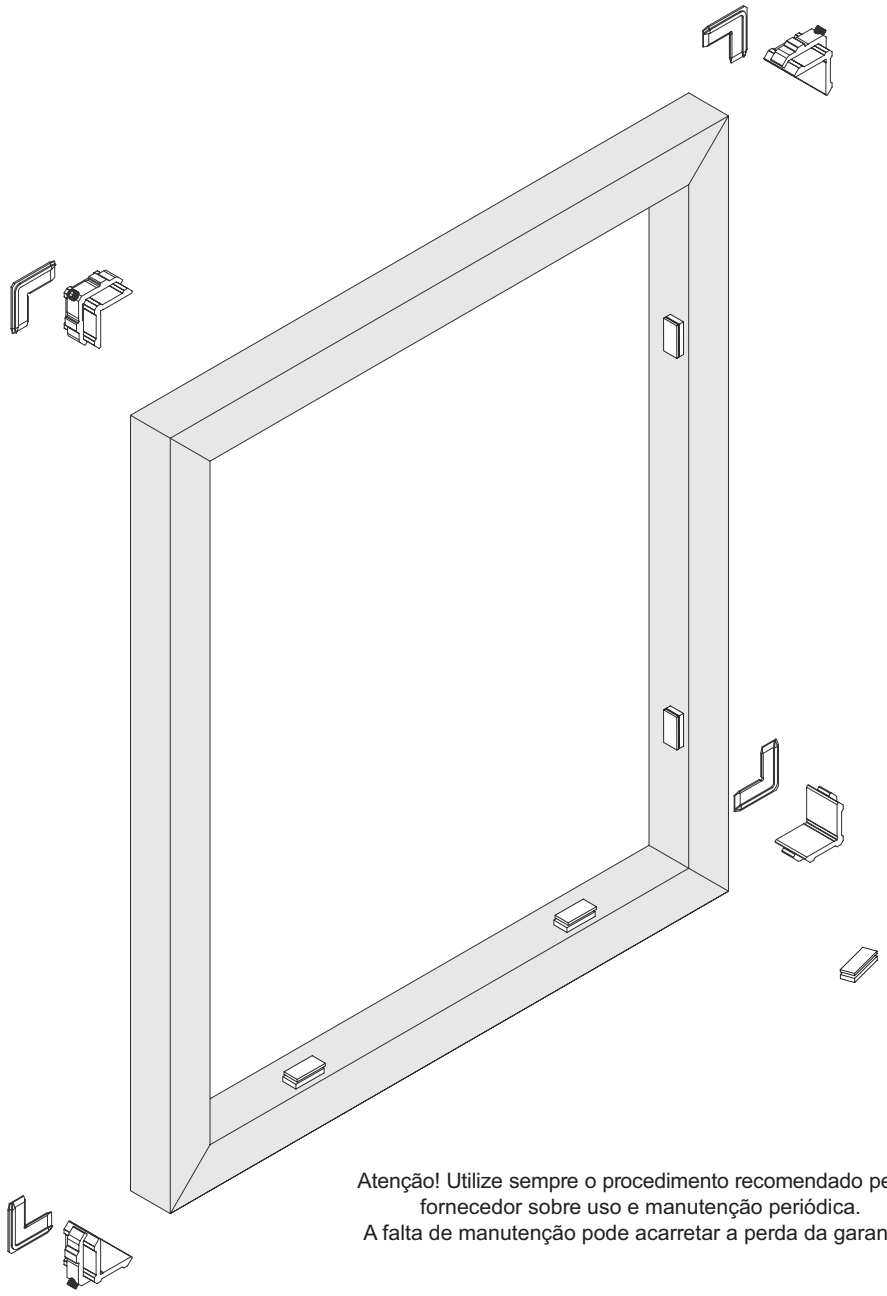


KIT COMPLETO

KITLG06 Larg. da Folha	Altura do Marco
Min: 300 Máx: 1000	Máx: 1200

CÓDIGOS INDIVIDUAIS

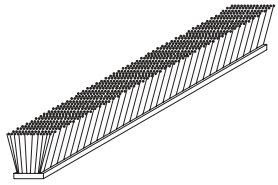
Quant.	Código	Componente
4 pç	CON437	Conexão do Marco
4 pç	CON433	Conexão de Alinhamento
8 pç	NYL463	Calço para Vidro



Atenção! Utilize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica.
A falta de manutenção pode acarretar a perda da garantia.

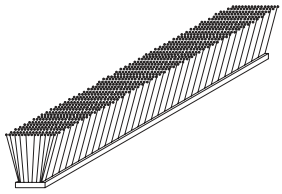
FIT206

Fita Vedadora 5 mm x 6 mm



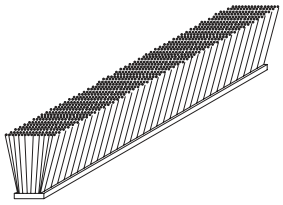
FIT212

Fita Vedadora 5 mm x 8 mm
Preta



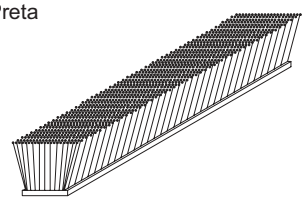
FIT214

Fita Vedadora 5 mm x 10 mm
Preta



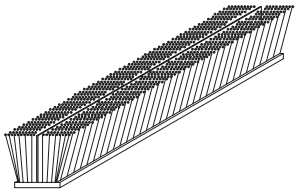
FIT224

Fita Vedadora 7 mm x 8 mm
Sem Barreira Plástica
Preta



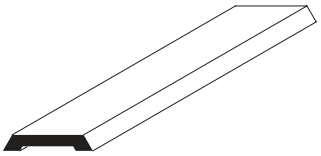
FIT223

Fita Vedadora 7 mm x 8 mm
Com Barreira Plástica
Preta



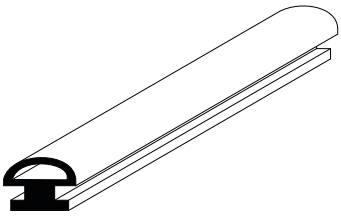
GUA132

Guarnição de Acabamento
PVC Preto



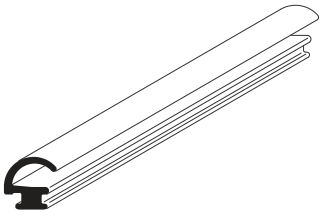
GUA289

Guarnição Externa
EPDM Preto



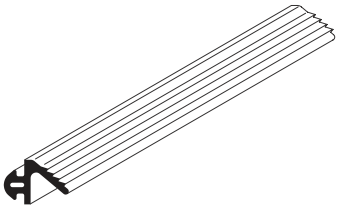
GUA410

Guarnição do Marco
EPDM Preto



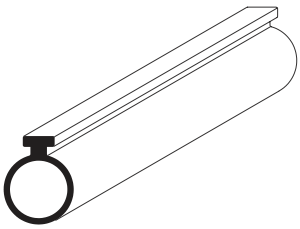
GUA239

Guarnição do Marco
EPDM Preto



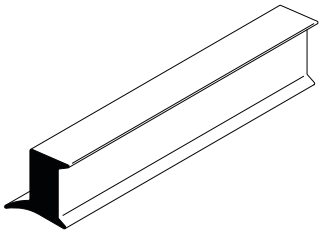
GUA007

Guarnição da Pingadeira
EPDM Preto



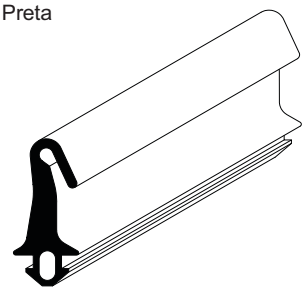
GUA374

Guarnição da Pingadeira
EPDM Preto



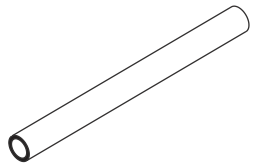
GUA376

Guarnição da Câmara
EPDM Preta



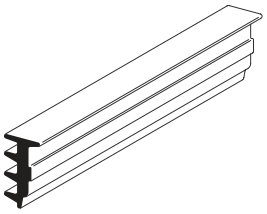
GUA309

Vedação do Engate
ø 6,5 mm
EPDM Preto



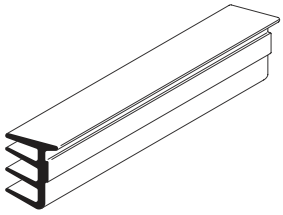
GUA259

Guarnição do Vidro
EPDM Preto



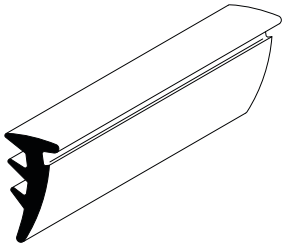
GUA256

Guarnição do Vidro
EPDM Preto



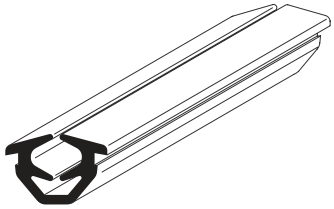
GUA303

Guarnição do Vidro
EPDM Preto



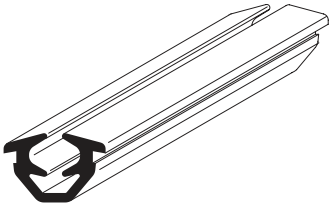
GUA385

Guarnição do Vidro
de 3 mm e 4 mm
EPDM Preto



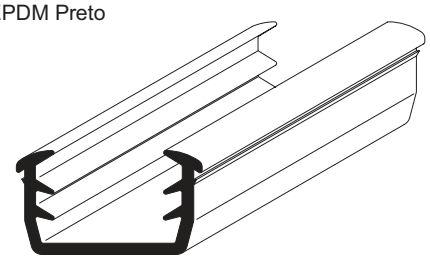
GUA386

Guarnição do Vidro
de 5 mm e 6 mm
EPDM Preto



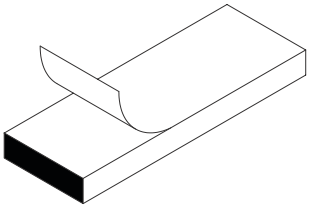
GUA398

Guarnição do Vidro Duplo
de 18 mm
EPDM Preto



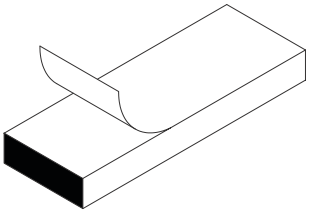
GUA305

Guarnição Ades. Esponjosa
14 mm x 3,2 mm
Preta



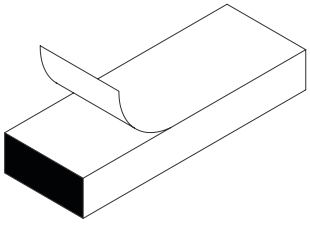
GUA306

Guarnição Ades. Esponjosa
14 mm x 4,8 mm
Preta



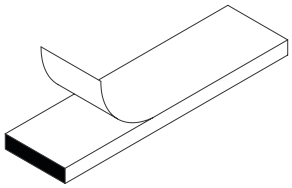
GUA304

Guarnição Ades. Esponjosa
14 mm x 6,4 mm
Preta



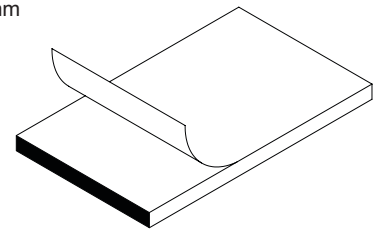
GUA172

Guarnição Ades. Esponjosa
11 mm x 1,8 mm
Preta



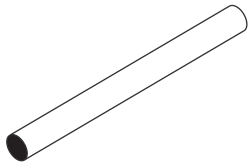
GUA282

Guarnição Ades. Esponjosa
22 mm x 2 mm
Preta



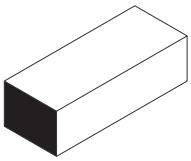
GUA397

Fixação Tela Mosquiteira
ø 5 mm
EPDM Preto



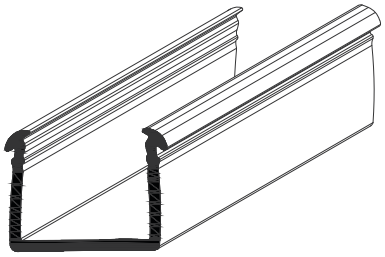
GUA393

Calço de Apoio do Vidro
8 mm x 6 mm x 20 mm
EPDM Preto



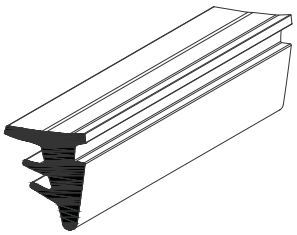
GUA395

Guarnição para Vidro Duplo
18 mm
EPDM Preto



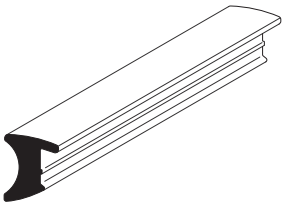
GUA412

Guarnição Interna para Vidro



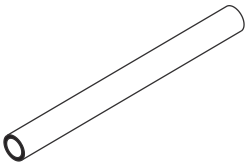
GUA039

Guarnição Cunha
EPDM Preto



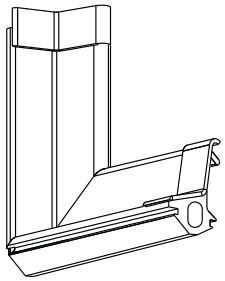
GUA006

Vedação do Engate
Ø 5 mm
EPDM Preto



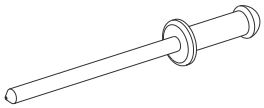
GUA380

Guarnição de Ângulo
Pré-camada em EPDM



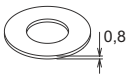
RBN321

Rebite 3,2 mm x 10,2 mm
Alumínio Natural



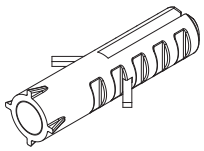
ARR569

Arruela Lisa 4,3 mm x 9 mm
Aço Inox



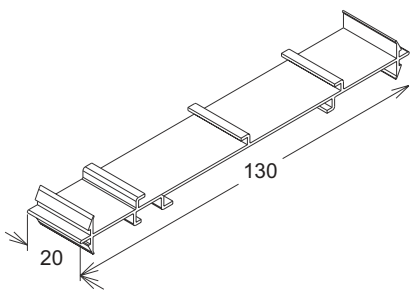
BUC755

Bucha de Nylon para Fixação
Parafuso 5/8”



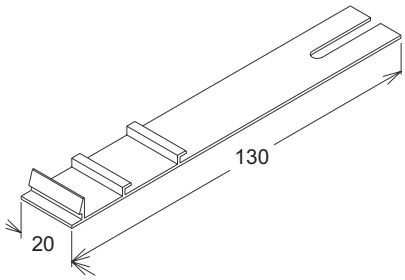
CHU838

Chumbador
Alumínio Natural



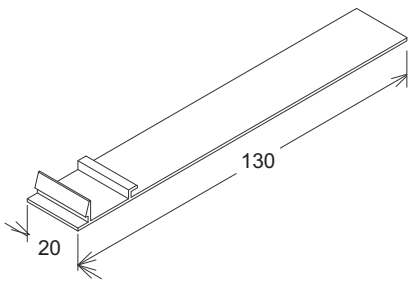
CHU864

Chumbador
Alumínio Natural



CHU840

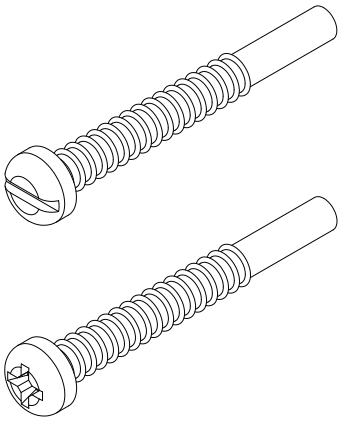
Chumbador
Alumínio Natural



SILICONE

Tipos de Silicone	Aplicação	Cores	Código Hydro
Neutro	Alumínio x Alumínio	Branco / Preto	SILN03
Acético	Alumínio x Alvenaria	Cinza / Incolor	SILA01

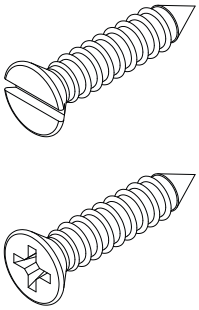
PARAFUSO A/A CABEÇA PANELA COM PONTA PILOTO



		TIPOS DE FENDA		
Diam. (mm)	Comp. (mm)	Philips	Comum	Combinada
4,8	32,0	PAR435		PAR428
4,8	50,0		PAR1011	PAR431

Material: Inox 304 - Acab. Natural / Preto / Branco

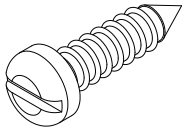
PARAFUSO A/A CABEÇA CHATA

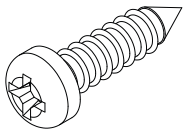


		TIPOS DE FENDA	
Diam. (mm)	Comp. (mm)	Philips	Comum
3,9	9,5	PAR1018	PAR7089
3,9	19,0	PAR1039	PAR692
4,2	16,0	PAR1014	PAR696
4,2	25,0	PAR1041	PAR698
4,8	16,0	PAR1046	PAR720

Material: Inox 304 - Acab. Natural / Preto / Branco

PARAFUSO A/A CABEÇA PANELA

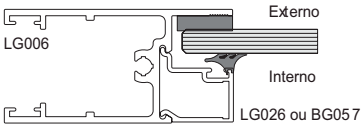
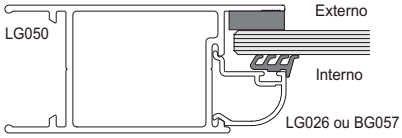
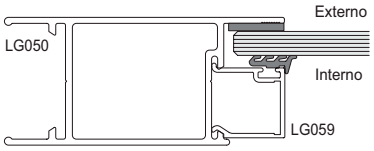
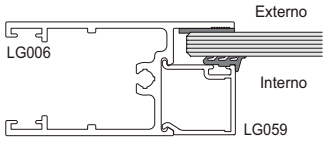
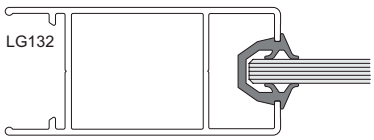
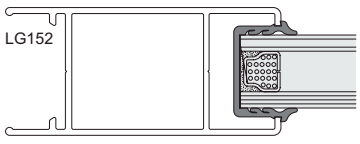
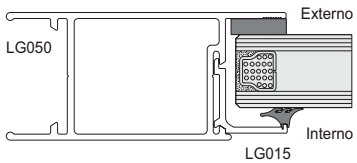
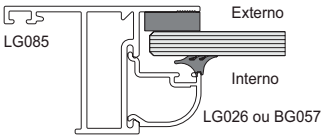




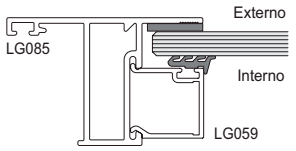
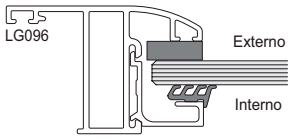
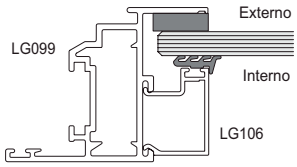
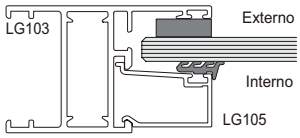
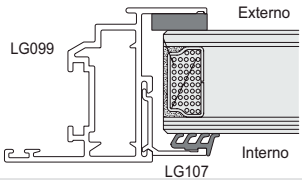
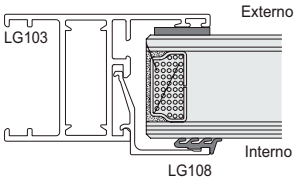
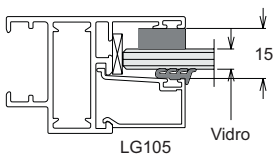
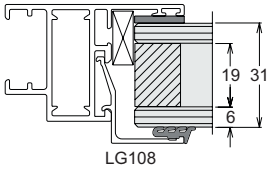
		TIPOS DE FENDA	
Diam. (mm)	Comp. (mm)	Philips	Comum
3,5	9,5	PAR1016	PAR703
3,9	6,5	PAR1019	PAR704
3,9	9,5	PAR1023	PAR434
4,2	9,5	PAR1031	PAR934
4,2	16,0	PAR1025	PAR936
4,2	25,0	PAR1013	PAR693
4,2	32,0	PAR1028	PAR694
4,2	38,0	PAR1029	PAR990
4,8	13,0	PAR1032	PAR691
4,8	19,0	PAR1033	PAR695
4,8	25,0	PAR1035	PAR722
4,8	32,0	PAR1021	PAR937
4,8	38,0	PAR1142	
4,8	50,0	PAR1037	PAR992

Material: Inox 304 - Acab. Natural / Preto / Branco

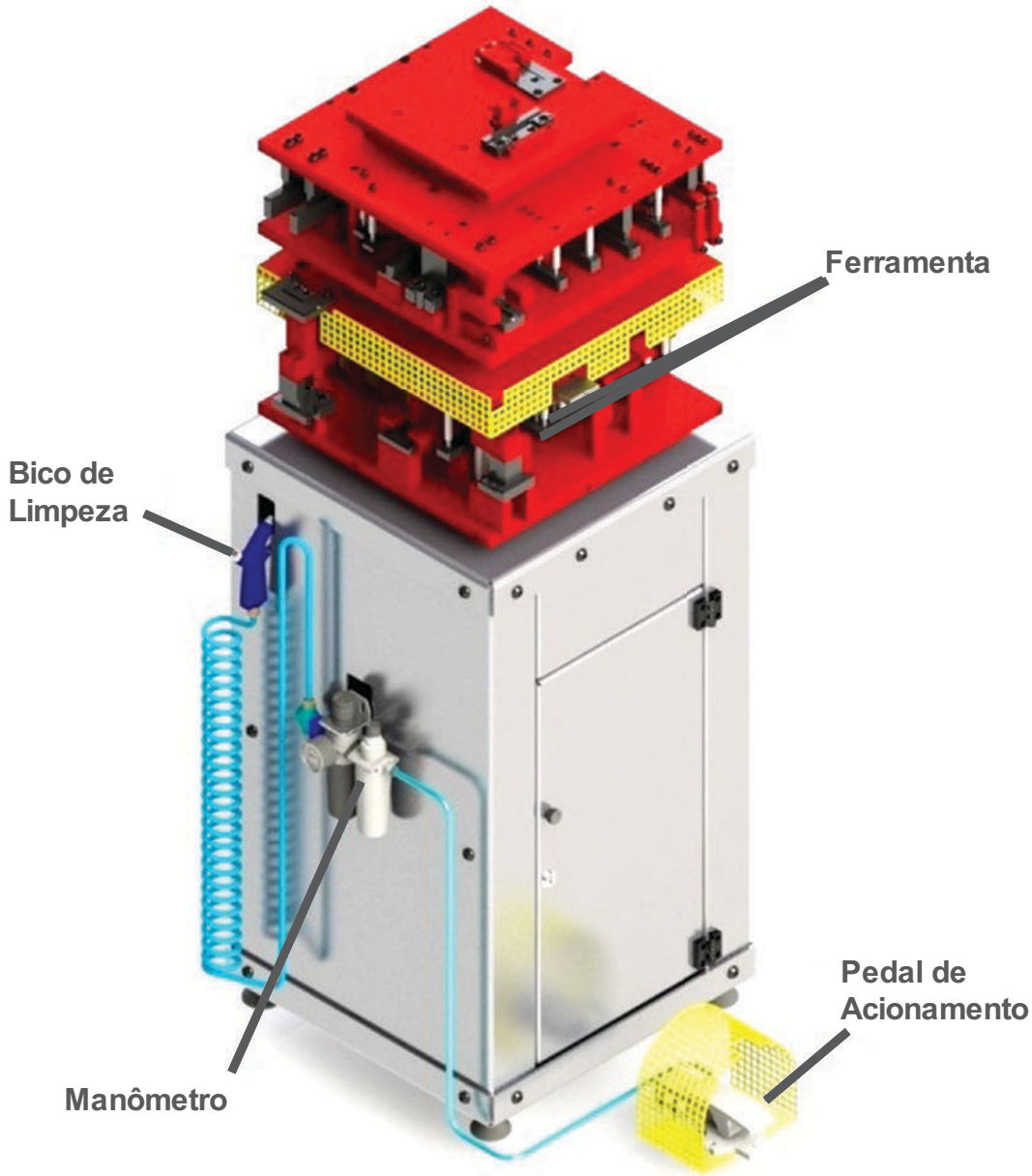
ALTERNATIVAS CONSTRUTIVAS - GUARNIÇÕES PARA VIDRO

Detalhes	Espessura do vidro	Guarnição Interna	Guarnição Externa
	6	GUA412	GUA306
	8	GUA259	GUA306
	10	GUA259	GUA305
	6	GUA256	GUA304
	8	GUA259	GUA304
	10	GUA259	GUA306
	4	GUA259	GUA304
	6	GUA259	GUA306
	4	GUA259	GUA306
	6	GUA259	GUA305
	3	GUA385	– X –
	4	GUA385	– X –
	5	GUA386	– X –
	6	GUA386	– X –
	18	GUA398	– X –
	17	GUA412	GUA304
	6	GUA412	GUA304
	8	GUA259	GUA304
	10	GUA259	GUA306

ALTERNATIVAS CONSTRUTIVAS - GUARNIÇÕES PARA VIDRO

Detalhes	Espessura do vidro	Guarnição Interna	Guarnição Externa
	4	GUA259	GUA304
	6	GUA259	GUA306
	6	GUA256	GUA306
	8	GUA259	GUA304
	10	GUA259	GUA306
	6	GUA256	GUA304
	8	GUA259	GUA304
	10	GUA259	GUA306
	6	GUA256	GUA304
	8	GUA259	GUA304
	10	GUA259	GUA306
	31	GUA259	GUA306
	31	GUA259	GUA305
	6	GUA256	GUA304
	8	GUA259	GUA304
	10	GUA259	GUA306
	31	GUA259	GUA305

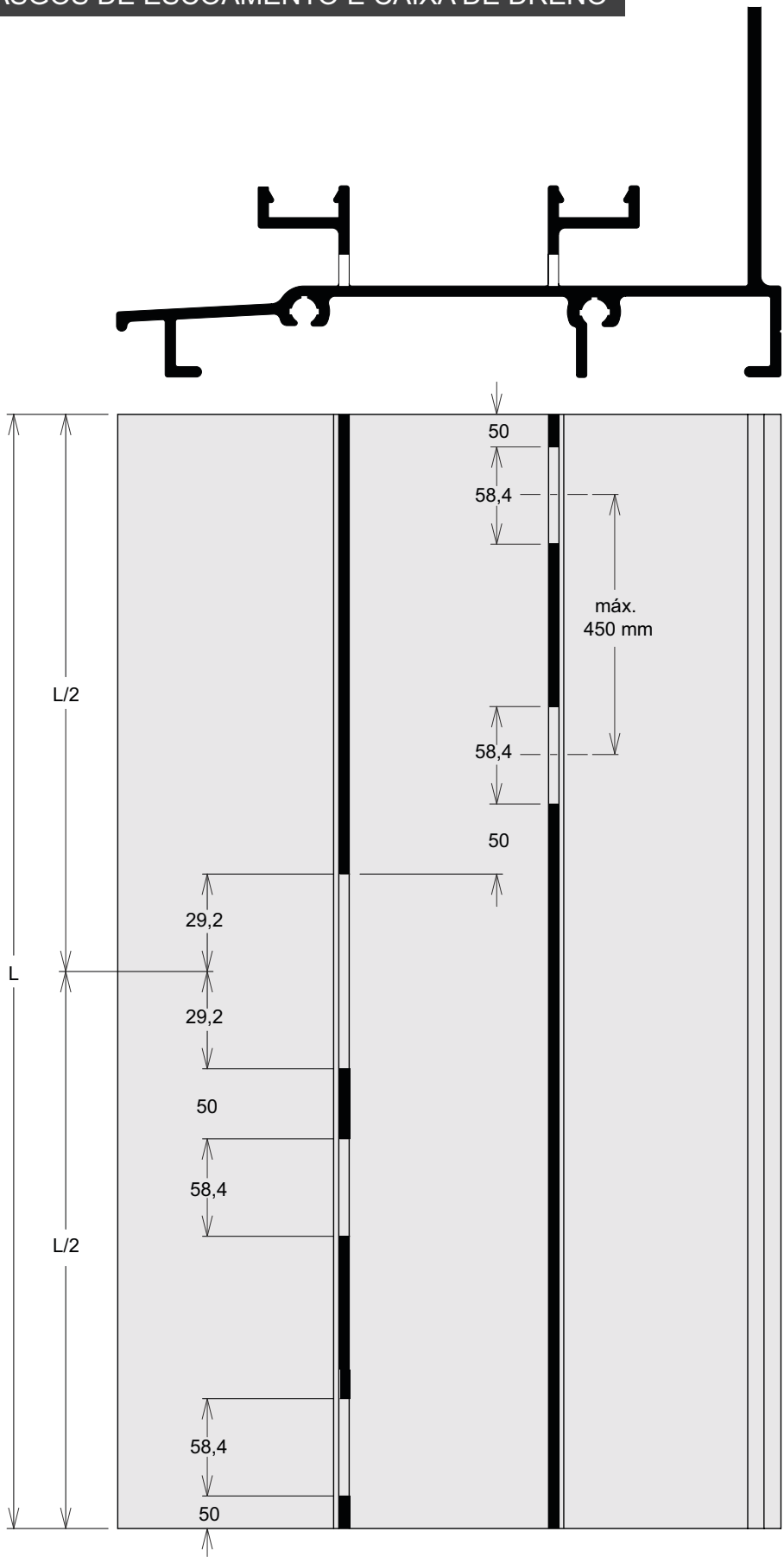
EST619 - ESTAMPO PNEUMÁTICO

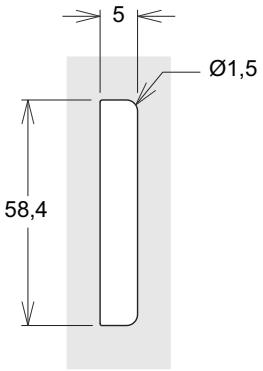


FRESA

RASGOS DE ESCOAMENTO E CAIXA DE DRENO

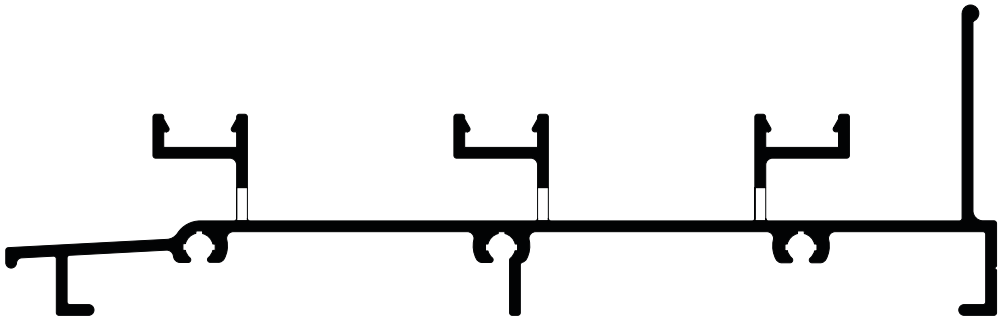
Usinar Perfis
LG115
LG117
LG159
LG208
LG047
LG217

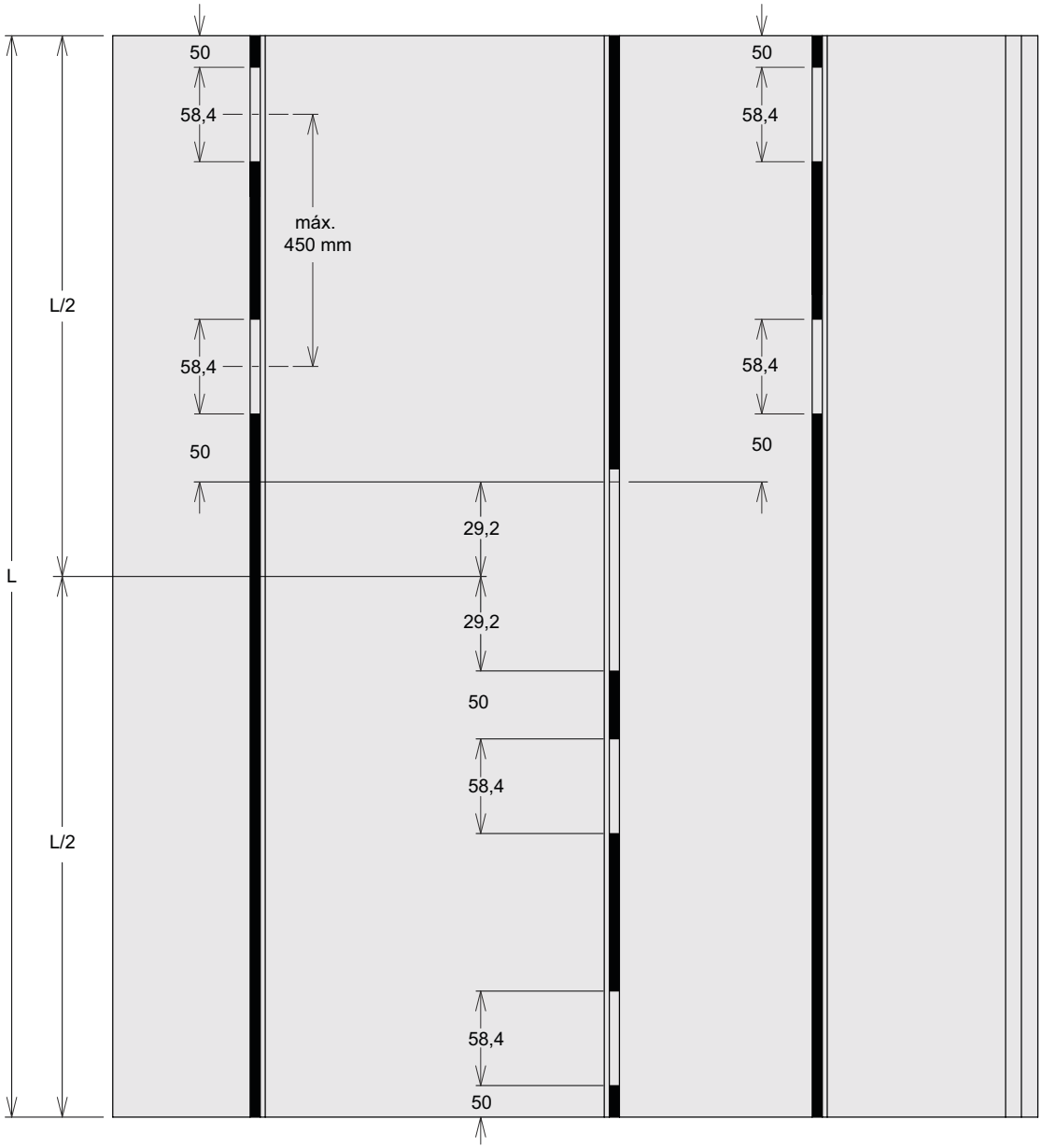


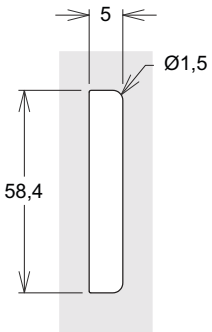


RASGOS DE ESCOAMENTO E CAIXA DE DRENO

Usinar Perfis
LG116
LG143
LG160
LG161
LG181

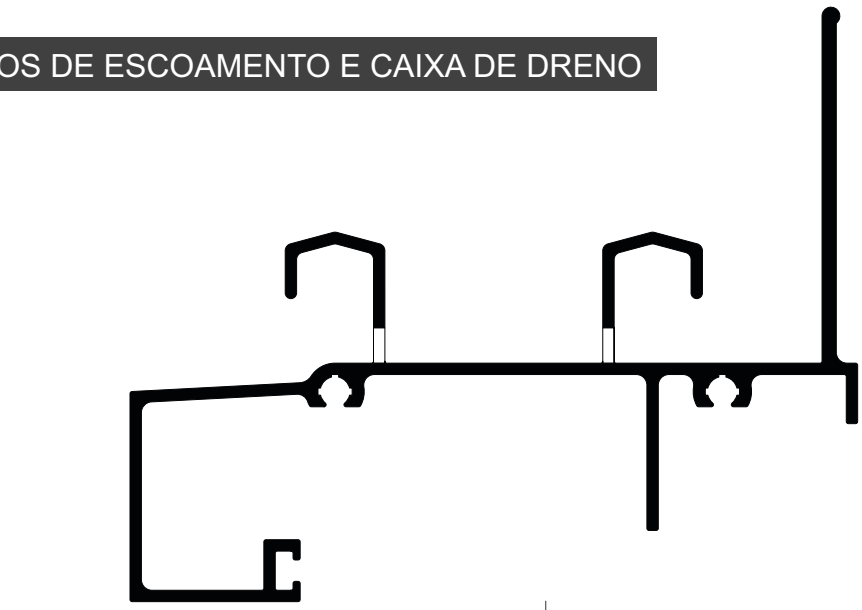


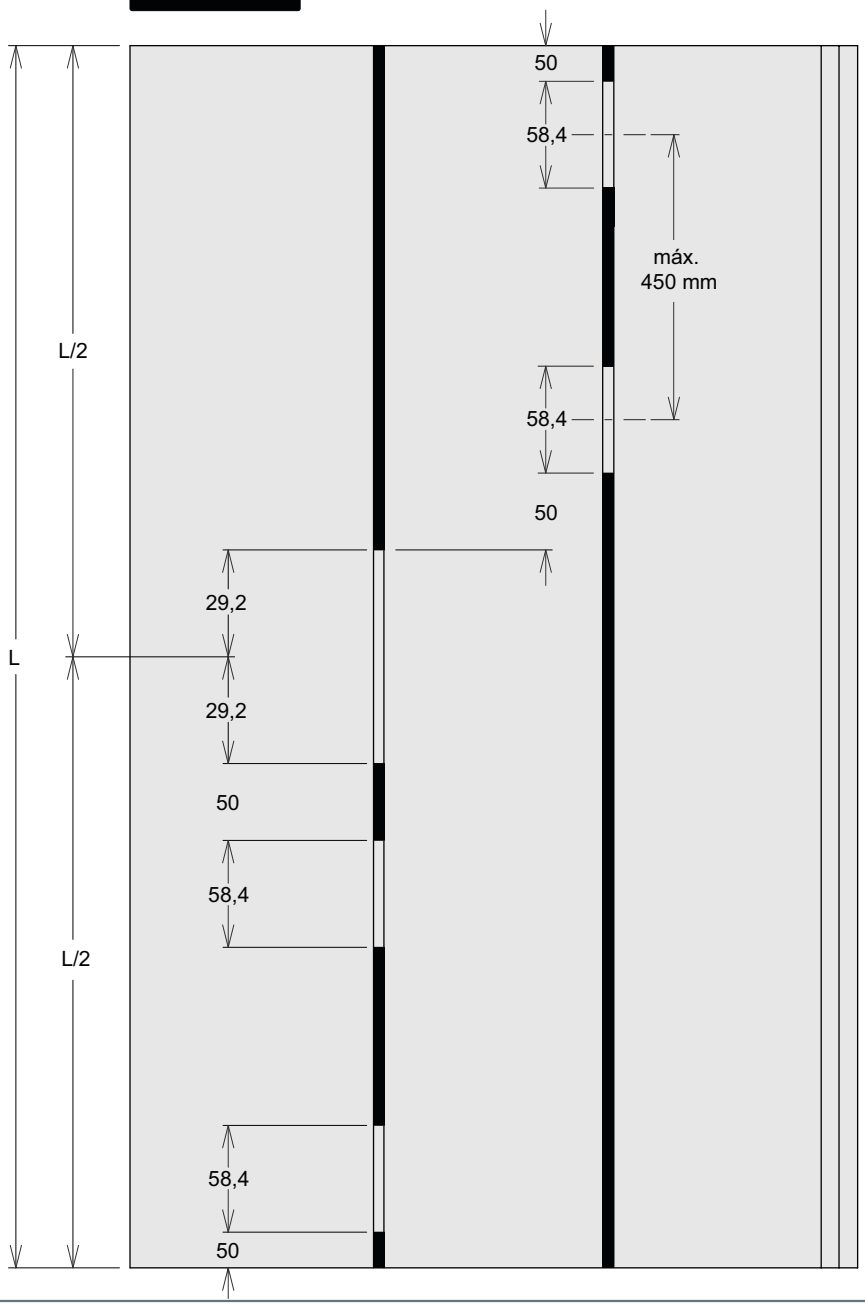


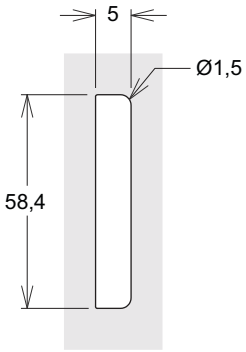


RASGOS DE ESCOAMENTO E CAIXA DE DRENO

Usinar Perfis
LG025



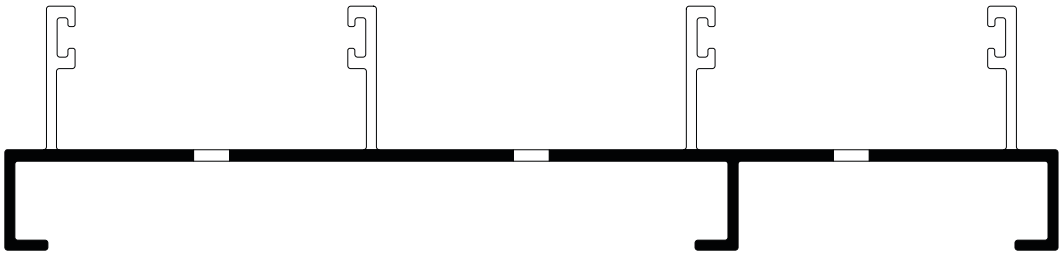


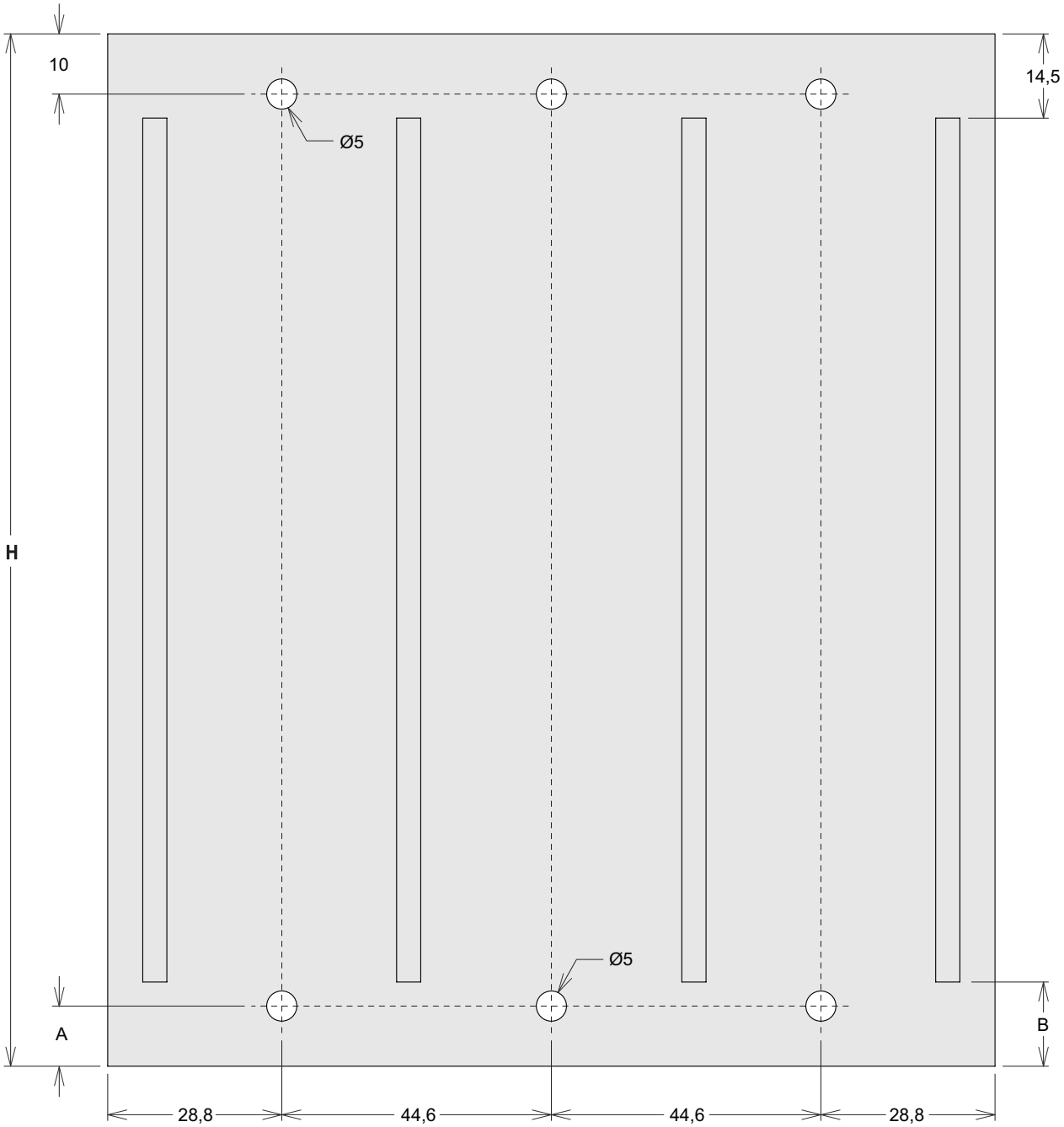


DESABE DAS MATAJUNTAS FURAÇÃO DOS MARCOS LATERAIS

Medida A (mm)	Medida B (mm)	Recebe Perfis
10	14,5	LG115 - LG159 - LG116 - LG160
5	9,5	LG125 - LG143 - LG161

Usinar Perfis
LG124
LG144
LG145

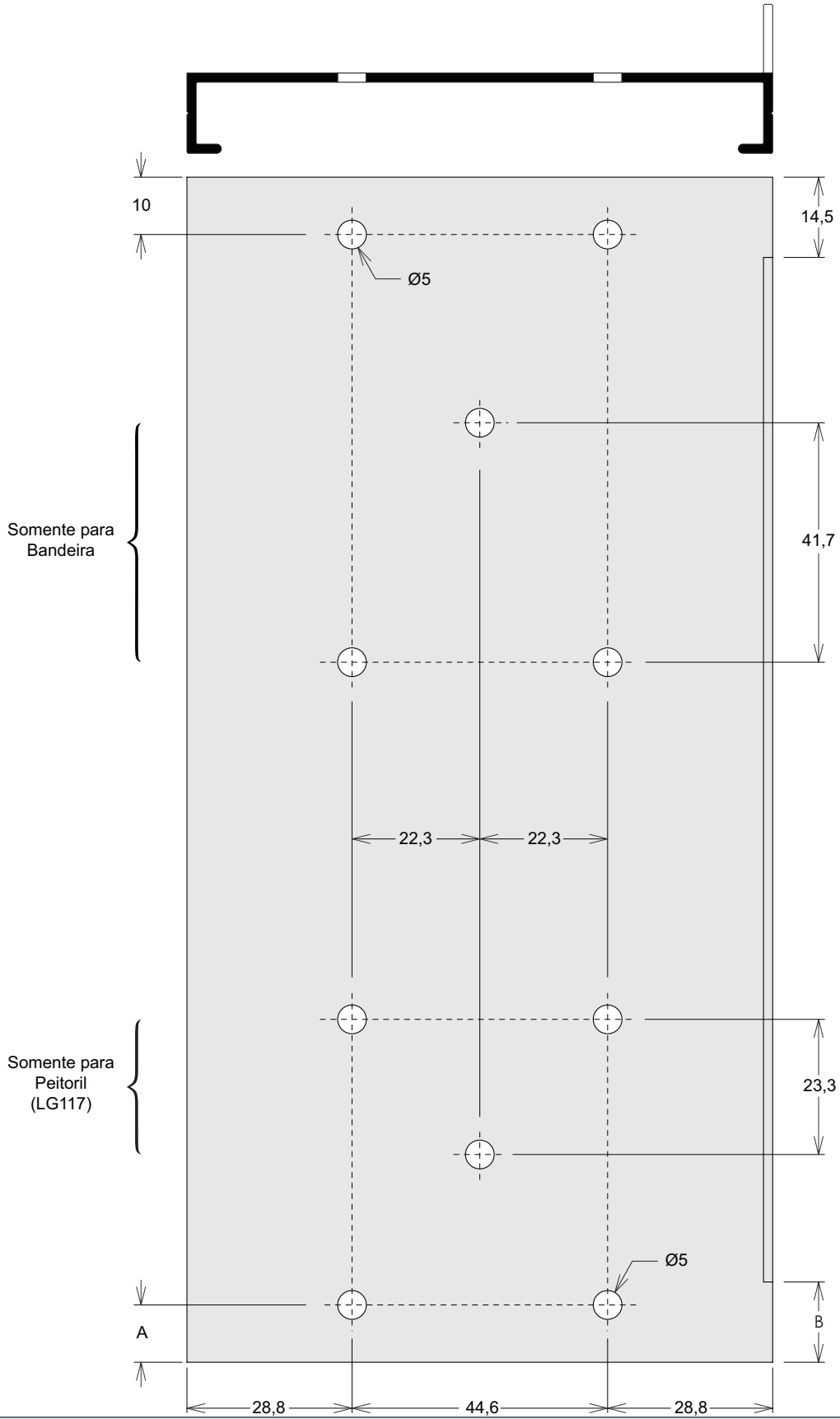




DESABE DAS MATAJUNTAS FURAÇÃO DOS MARCOS LATERAIS

Medida A (mm)	Medida B (mm)	Recebe Perfis
10	14,5	LG115 - LG159 - LG116 - LG160
5	9,5	LG125 - LG143 - LG161

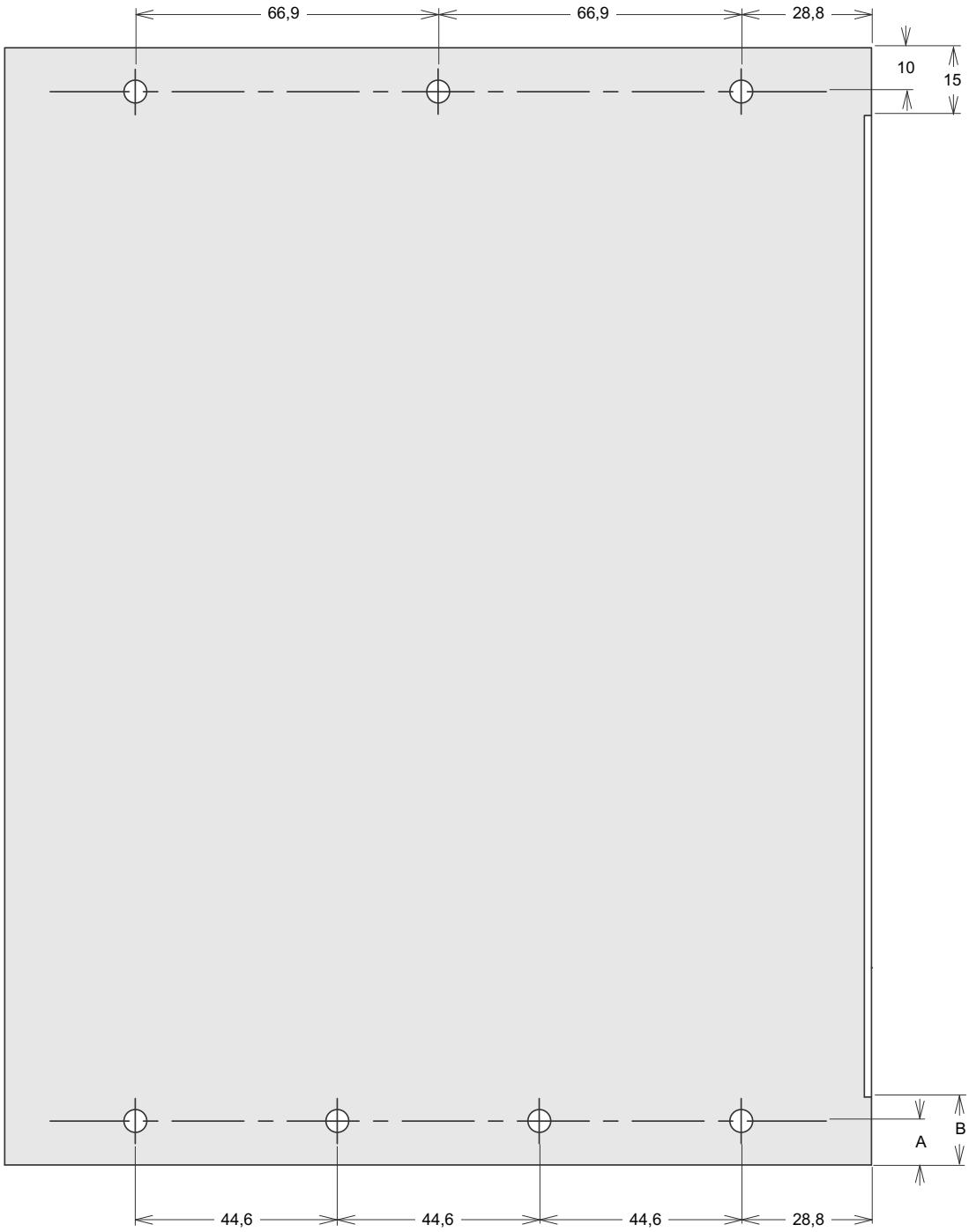
Usinar Perfis
LG002
LG158
LG215



FURAÇÃO DOS MARCOS LATERAIS 4 PLANOS

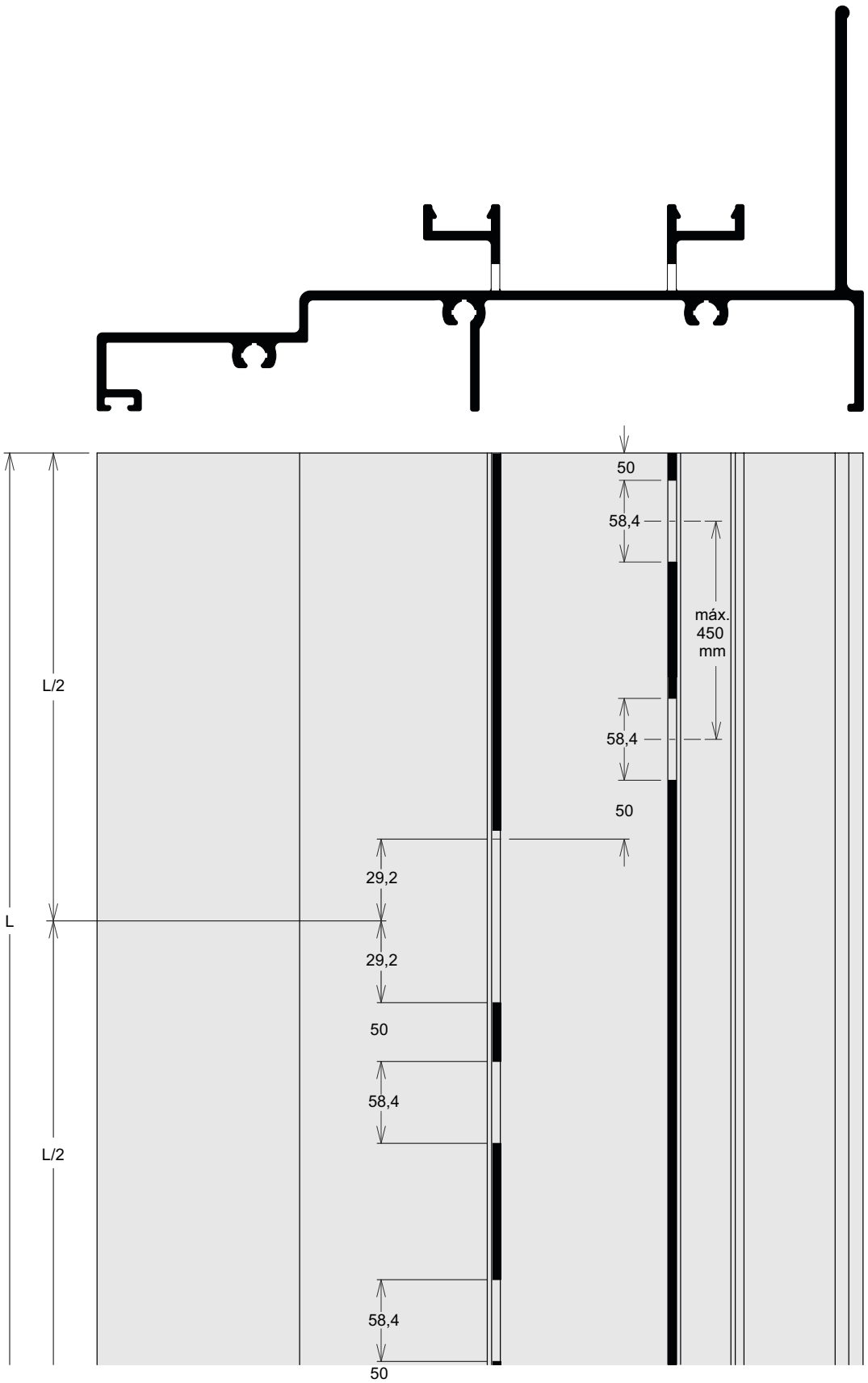
Medida A (mm)	Medida B (mm)	Recebe Perfis
10	15	LG160
5	10	LG161

Usinar Perfis
LG072



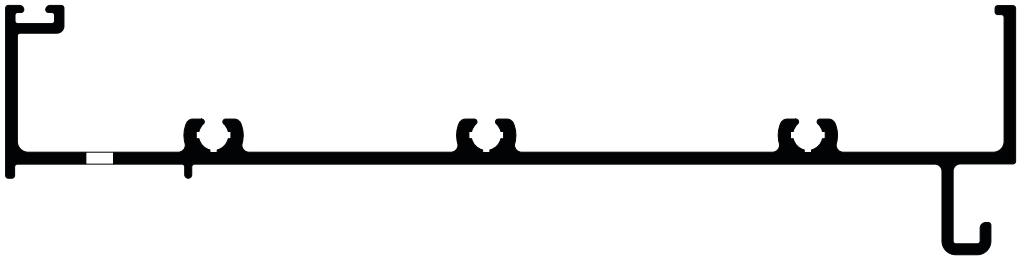
RASGOS DE ESCOAMENTO E CAIXA DE DRENO

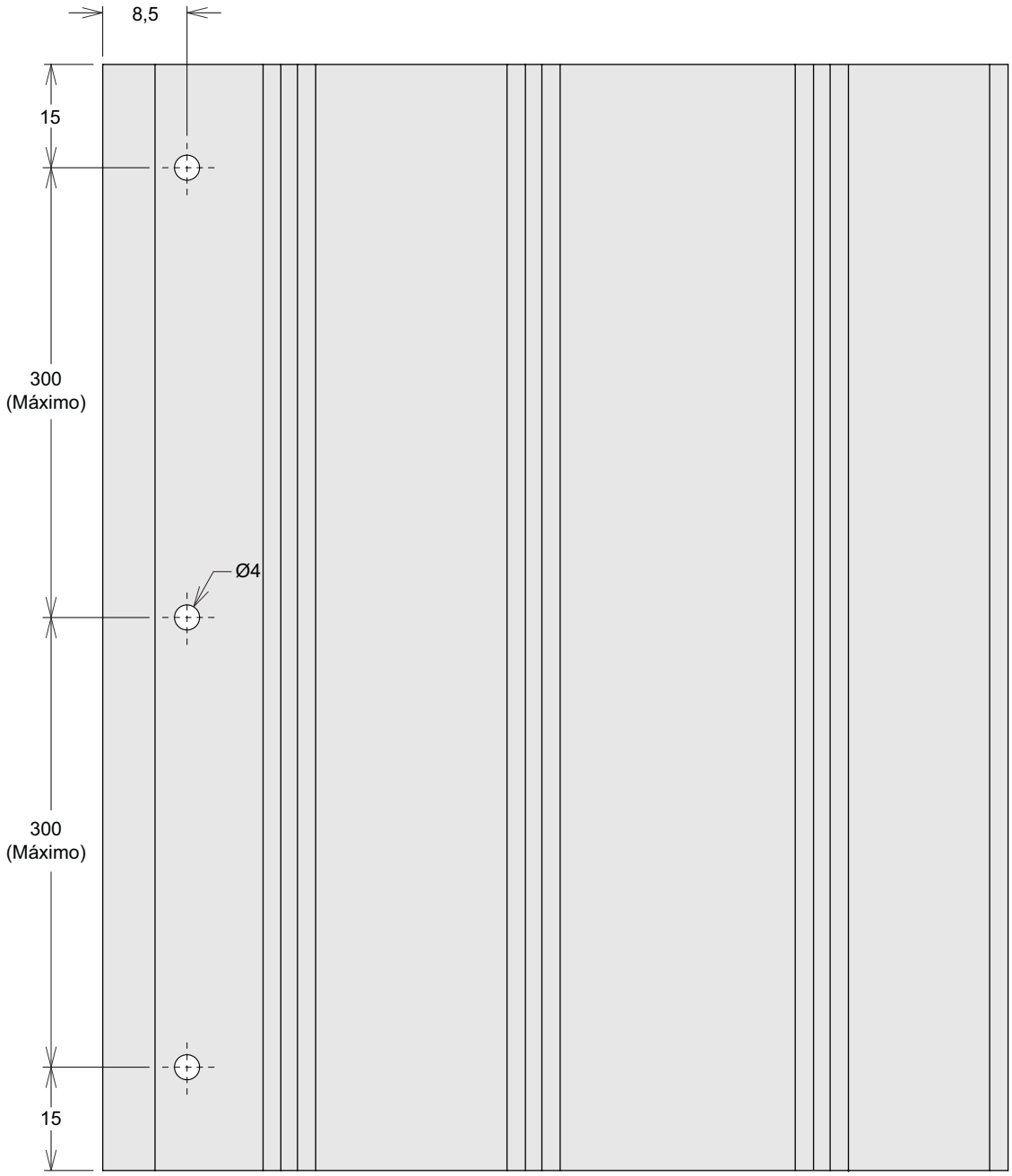
Usinar Perfis
LG172



FIXAÇÃO DA TAMPA EXTERNA

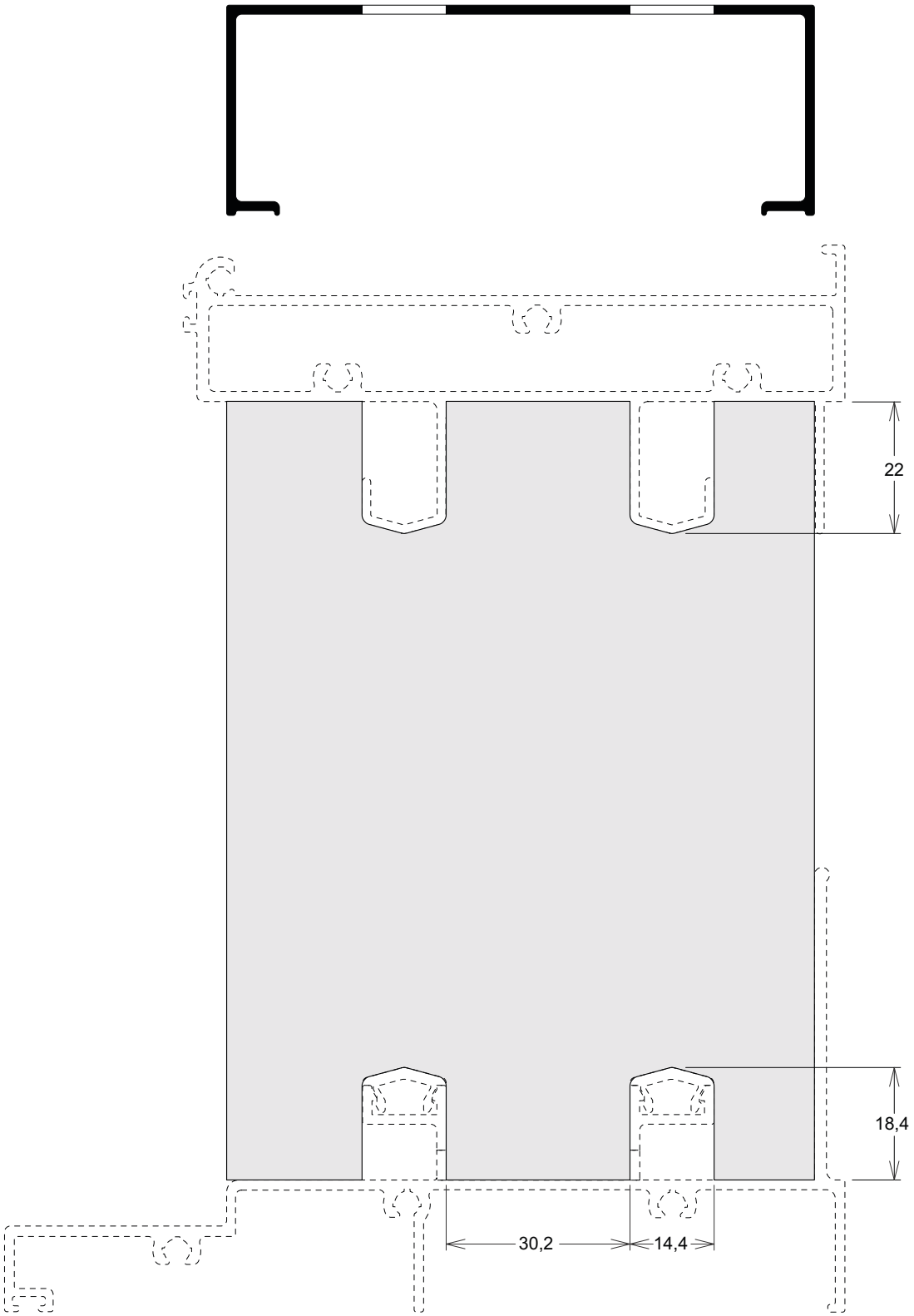
Usinar Perfis
LG168





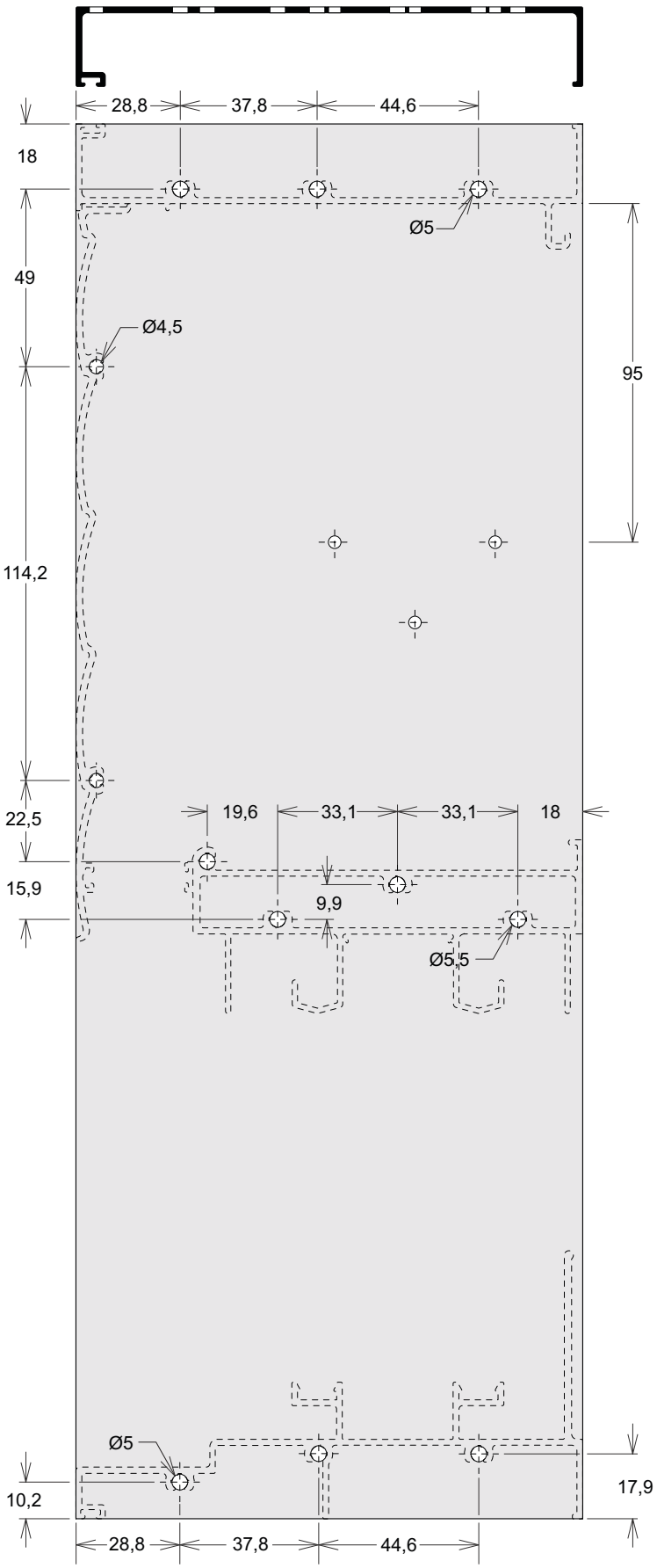
RASGOS PARA PASSAGEM DO TRILHO

Usinar Perfis
MN050



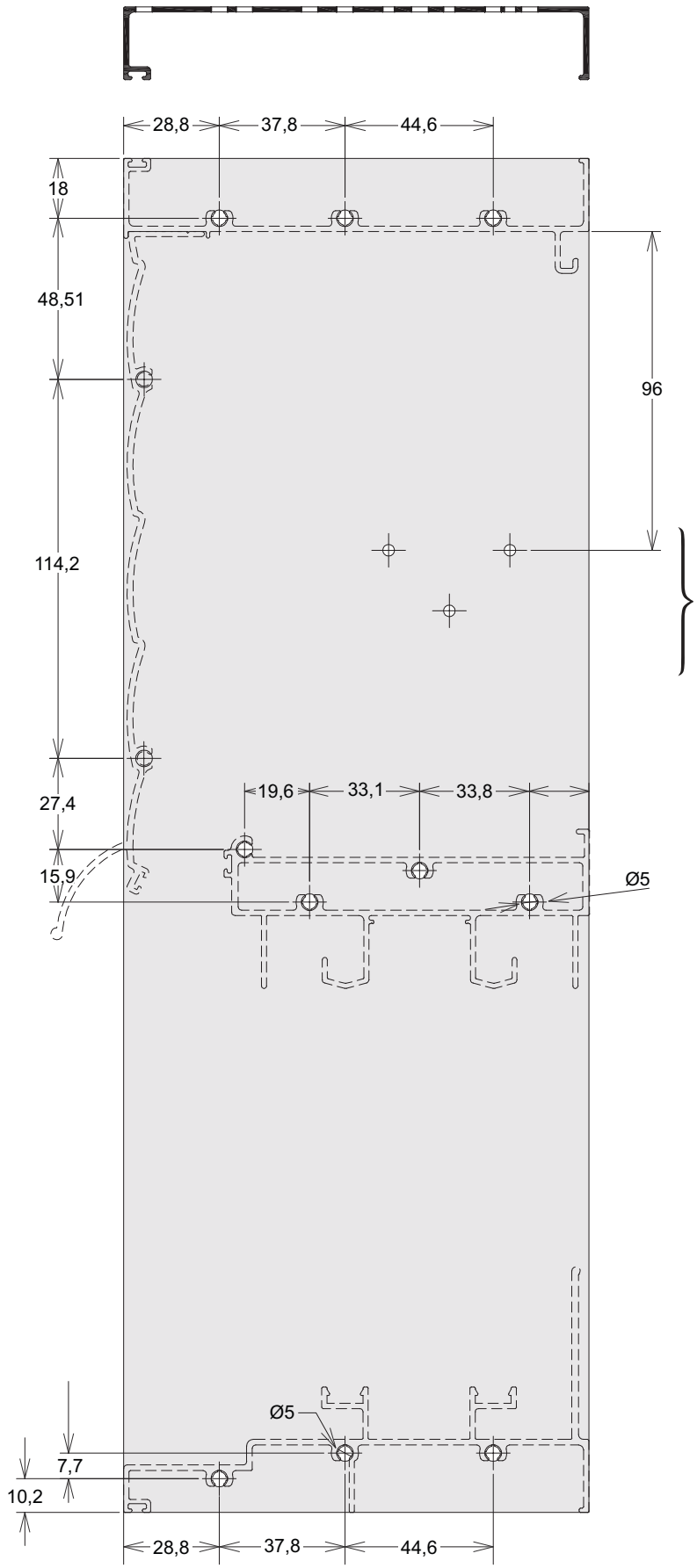
FURAÇÃO DOS MARCOS LATERAIS - INTEGRADA

Usinar Perfis
LG170



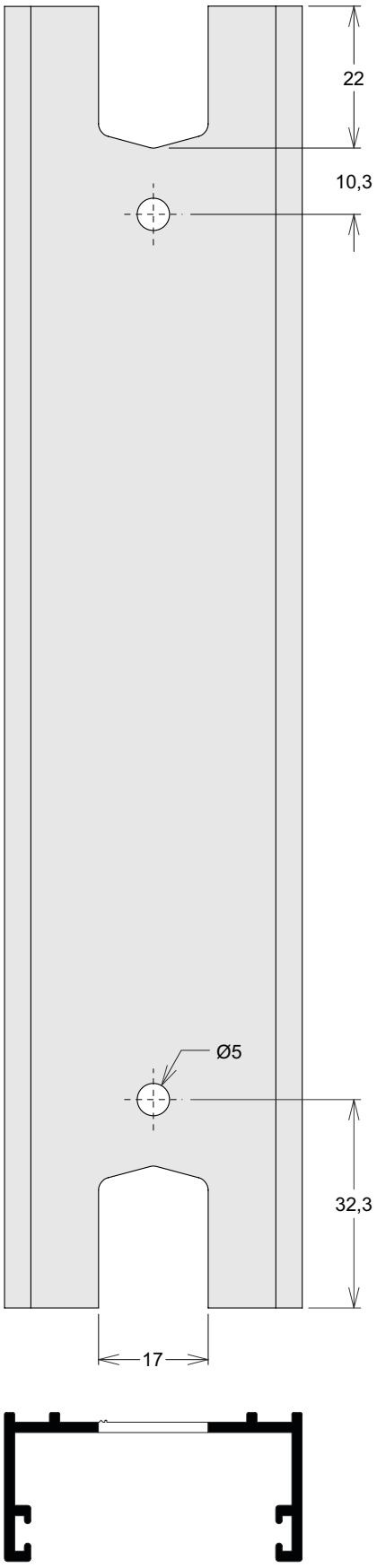
FURAÇÃO DOS MARCOS LATERAIS - INTEGRADA

Usinar Perfis
LG170



RASGOS PARA PASSAGEM DE TRILHO - MATAJUNTA

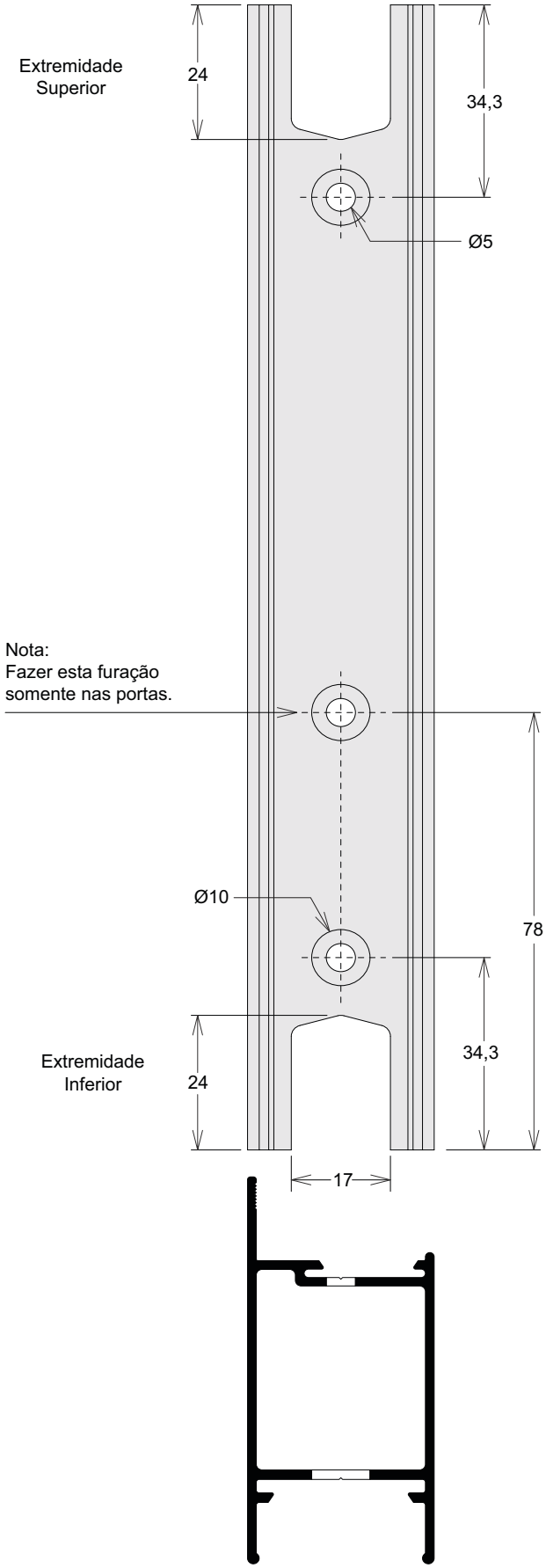
Usinar Perfis
LG028



RASGOS PARA PASSAGEM DO TRILHO - FIXAÇÃO DOS MONTANTES

Nota:

Peças conforme e contrário

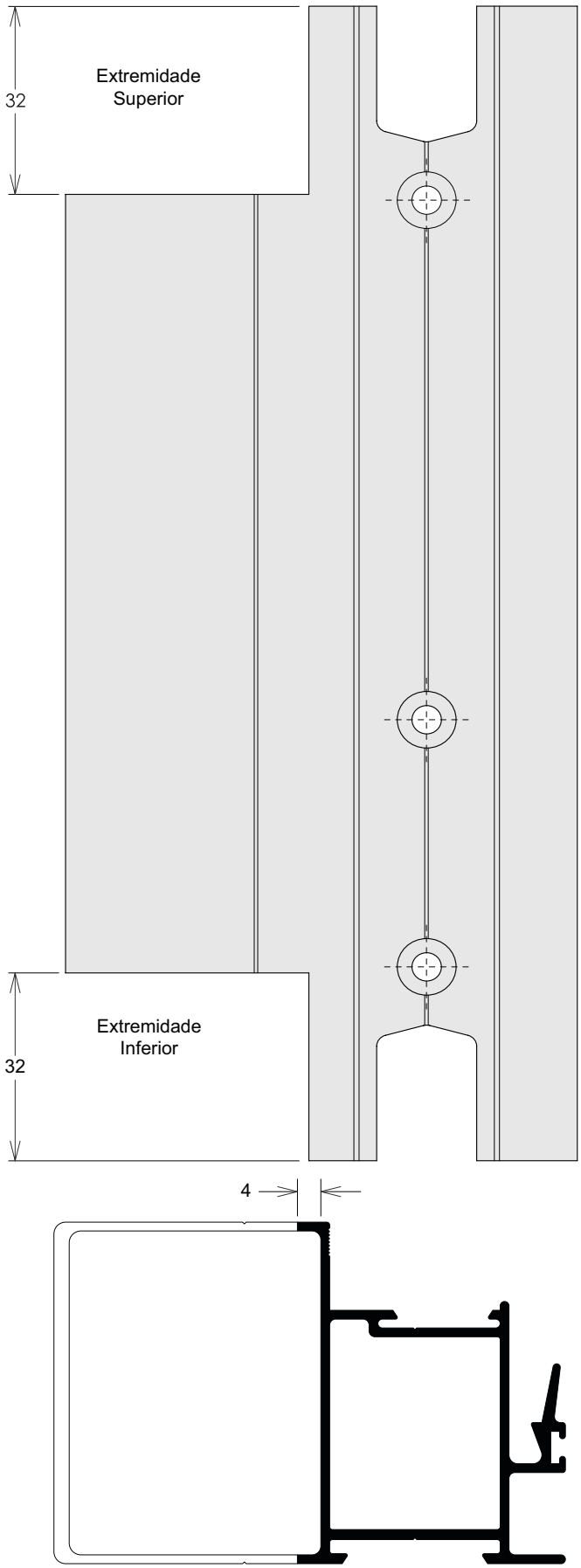


Usinar Perfis
LG017
LG018
LG019
LG020
LG021
LG048
LG049
LG050
LG051
LG052
LG053
LG054
LG126
LG127
LG128
LG132
LG133
LG134
LG135
LG136
LG137
LG138
LG139
LG149
LG150
LG151
LG152
LG153
LG154
LG156
LG162
LG163

DESABE DO REFORÇO - SUPERIOR E INFERIOR

Nota:

Peças conforme e contrário

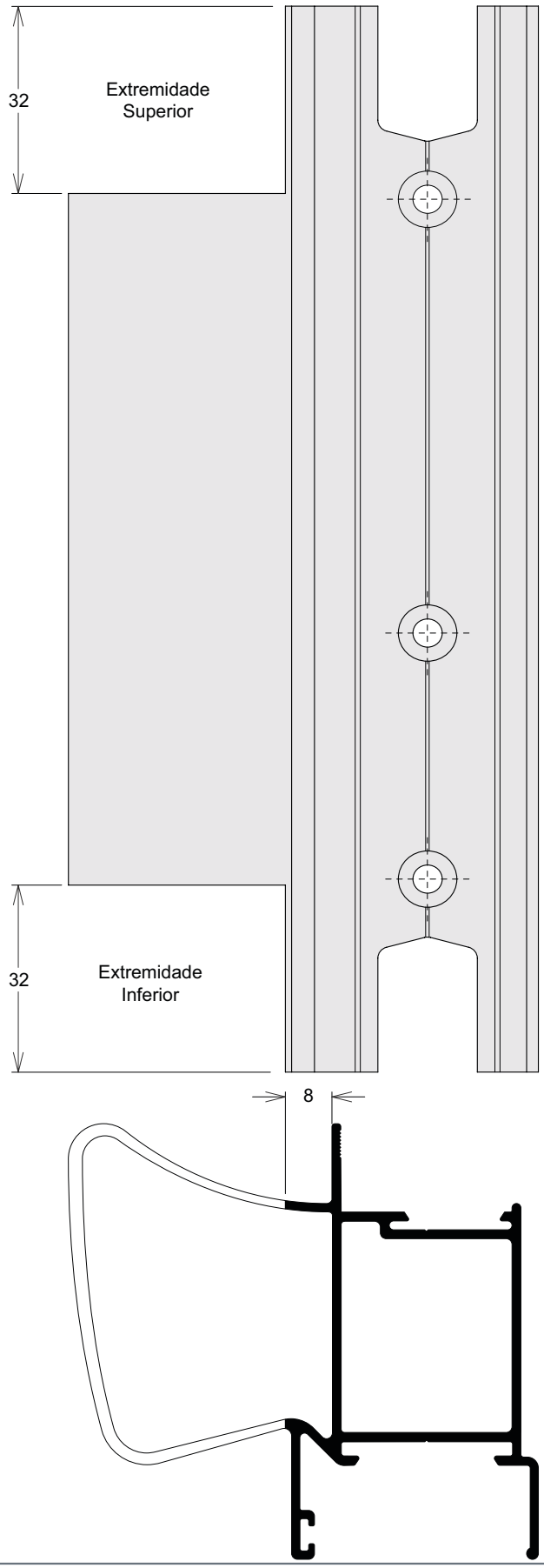


Usinar Perfis
LG018
LG021
LG052
LG054
LG127
LG135
LG137
LG138
LG140
LG150

DESABE DO REFORÇO - SUPERIOR E INFERIOR

Nota:
Peças conforme e contrário

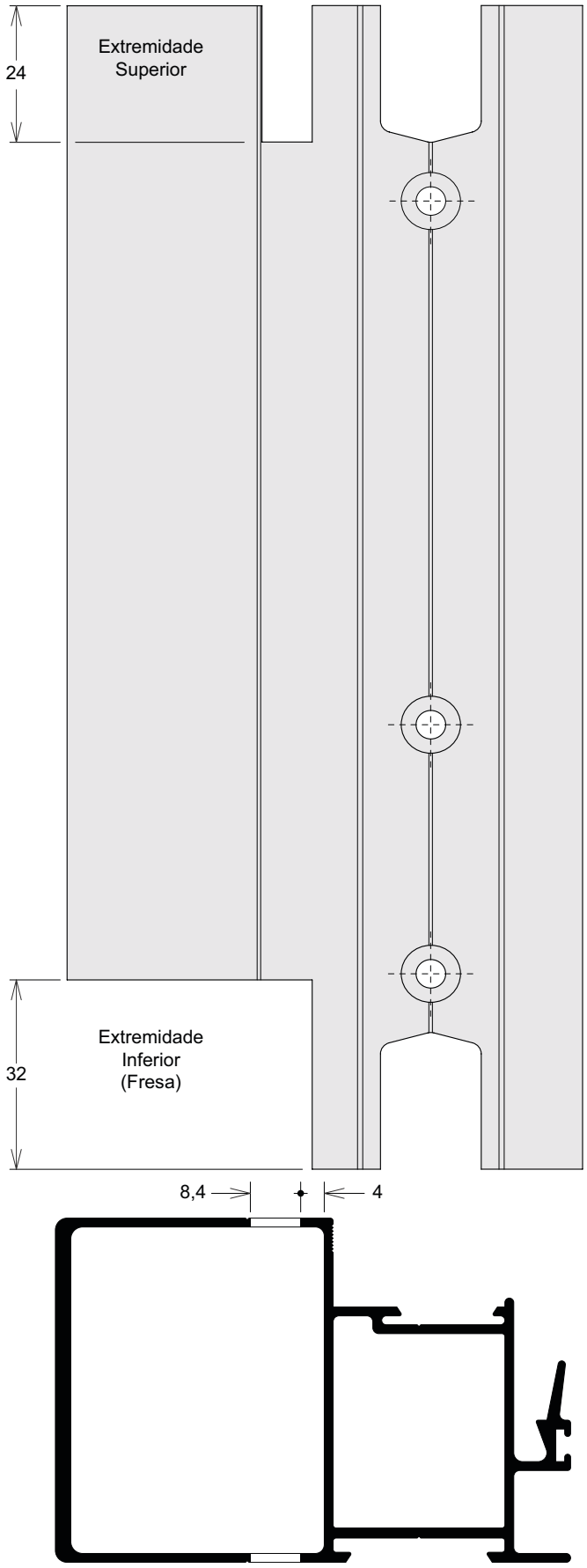
Usinar Perfis
LG053
LG136
LG139
LG156
LG204
LG205
LG206



DESABE DO REFORÇO - SUPERIOR E INFERIOR

Nota:

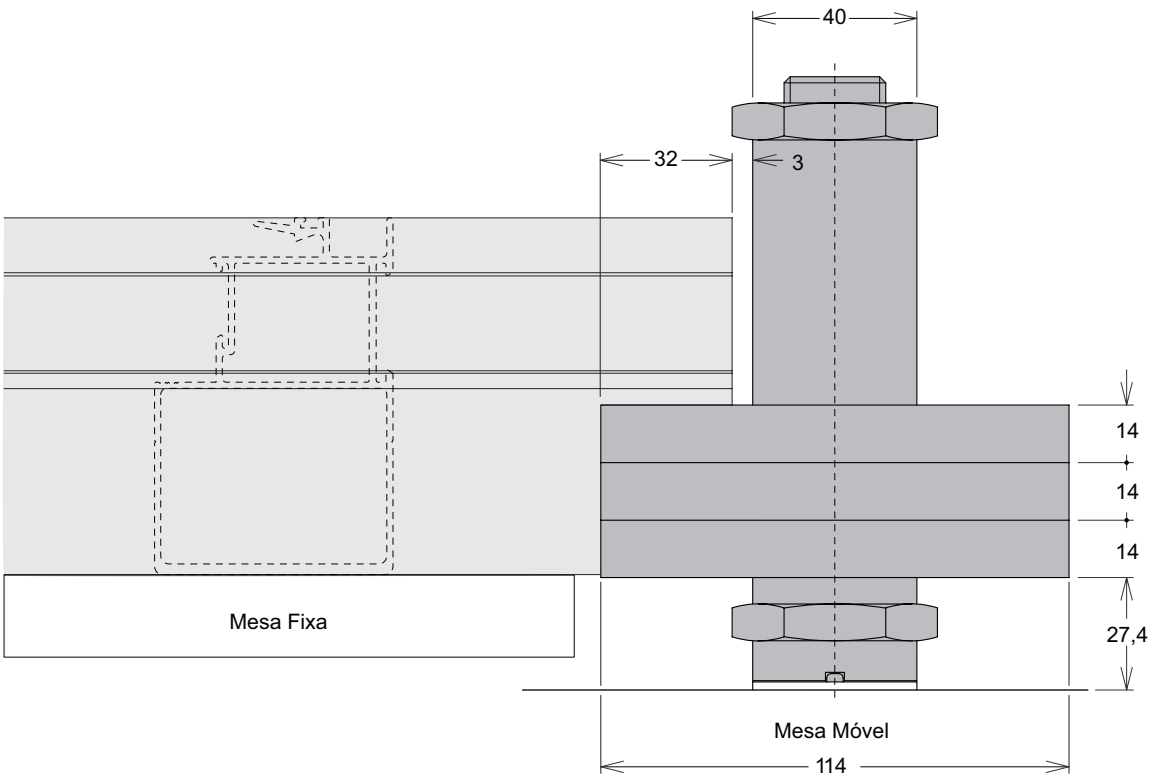
Peças conforme e contrário



Usinar Perfis
LG018
LG021
LG052
LG054
LG127
LG135
LG137
LG138
LG140
LG150

DETALHE DE USINAGEM COM ENTESTADEIRA

Usinar Perfis
LG018
LG021
LG052
LG054
LG127
LG135
LG137
LG138
LG140
LG150



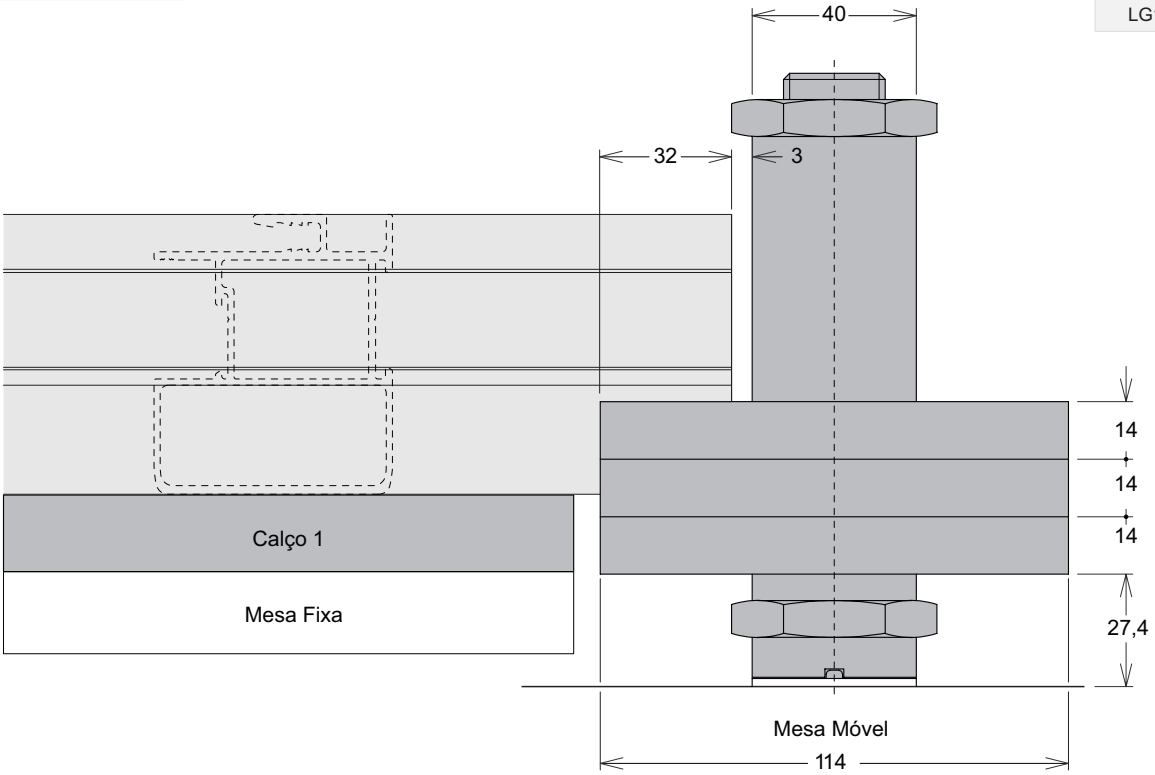
Fresa de Topo. As dimensões da fresa de topo são orientativas,devendo o fornecedor da fresa confirmá-las.

DETALHE DE USINAGEM COM ENTESTADEIRA

Usinar Perfis
LG018
LG053
LG136
LG156

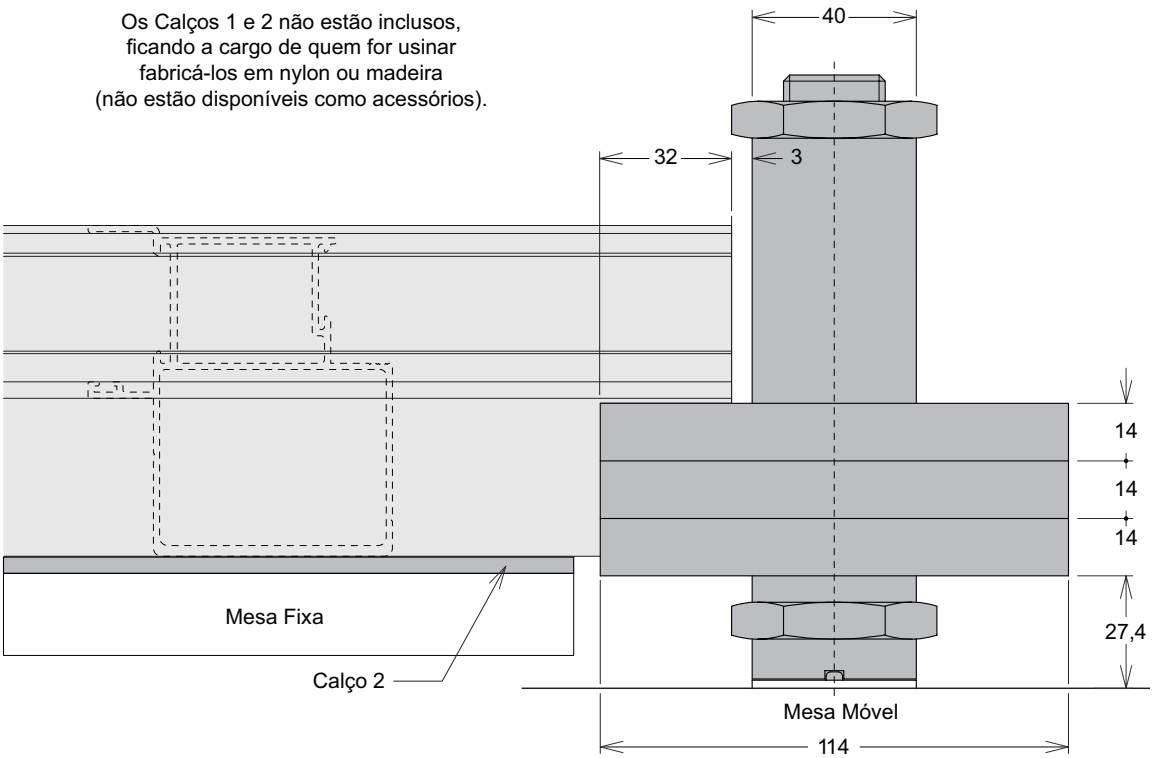
Nota:

Peças conforme e contrário



Fresa de Topo. As dimensões da fresa de topo são orientativas, devendo o fornecedor da fresa confirmá-las.

Os Calços 1 e 2 não estão inclusos, ficando a cargo de quem for usinar fabricá-los em nylon ou madeira (não estão disponíveis como acessórios).

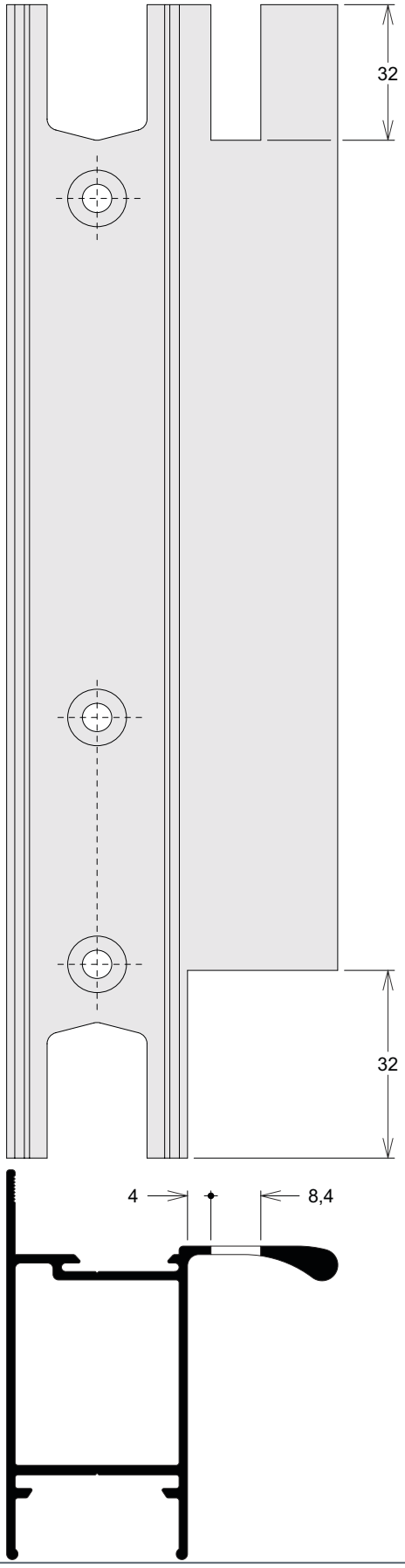


DESABE DO REFORÇO - SUPERIOR E INFERIOR

Nota:
Peças conforme e contrário

Usinar Perfis
LG017
LG020
LG126
LG134
LG149
LG154

Extremidade Superior

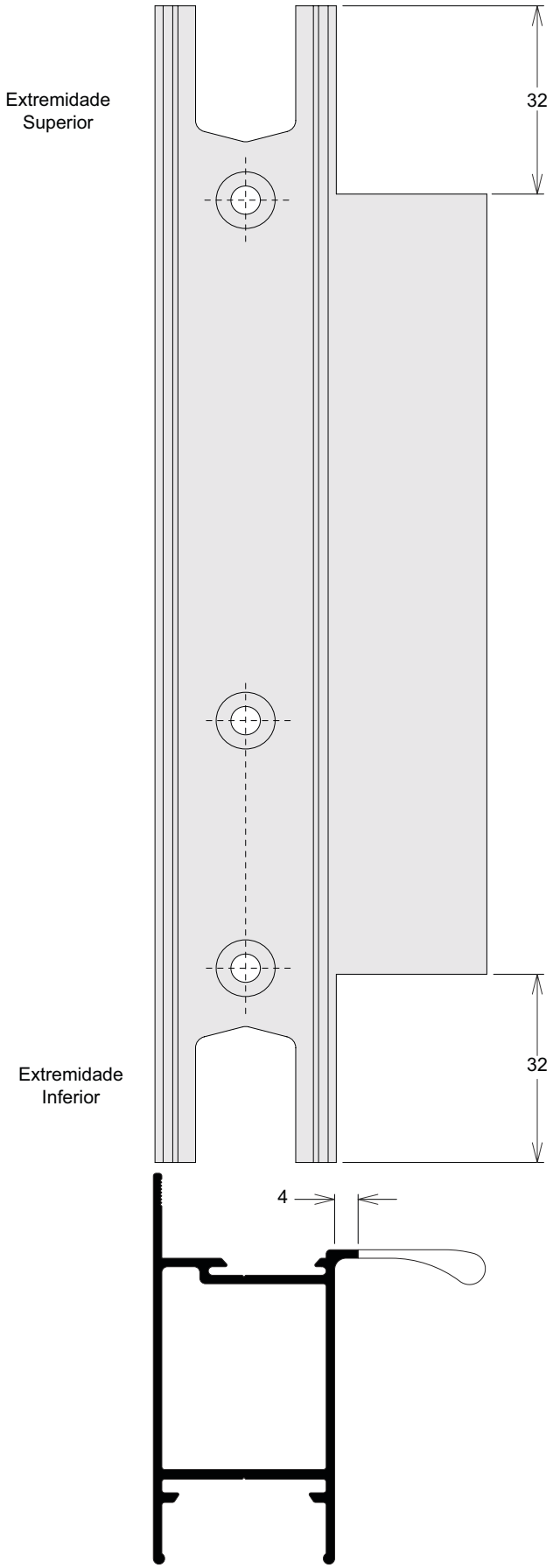


Extremidade Inferior (Fresa)

DESABE DO REFORÇO - SUPERIOR E INFERIOR

Nota:
Peças conforme e contrário

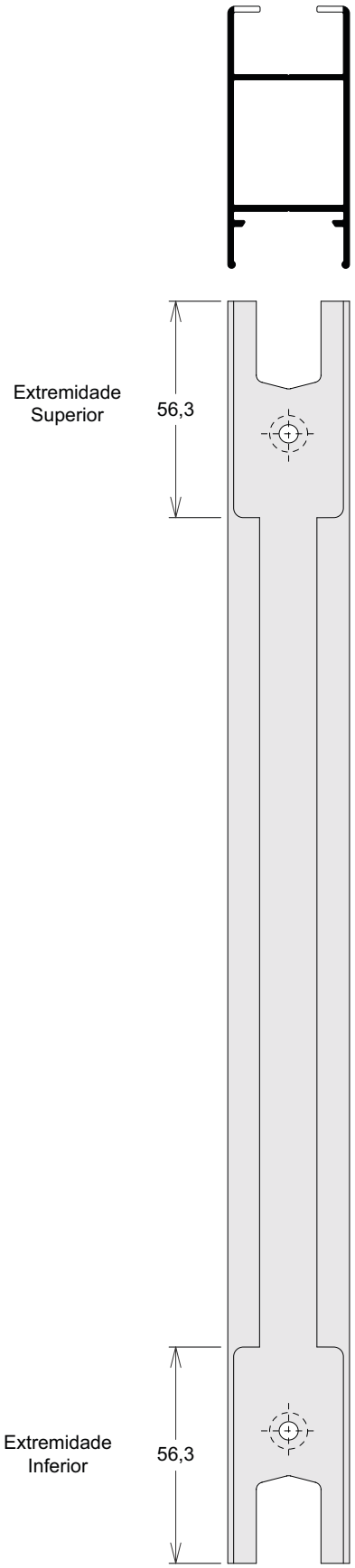
Usinar Perfis
LG017
LG020
LG126
LG134
LG149
LG154



RASGOS PARA ALOJAMENTO DAS TRAVESSAS CONSTRUÇÃO SEM BAGUETE - JANELA

Nota:
Peças conforme e contrário

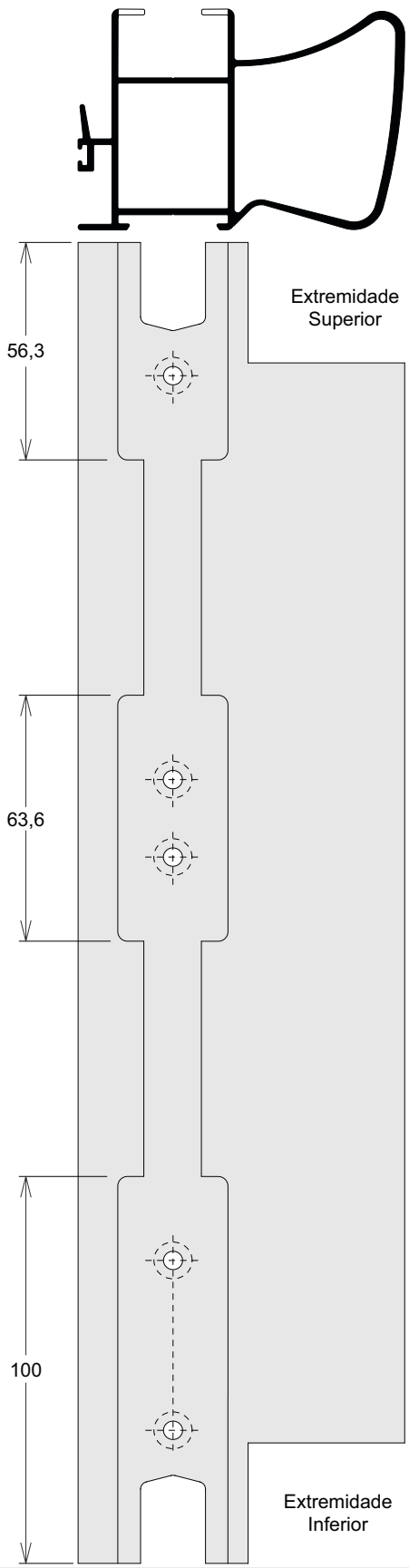
Usinar Perfis
LG126
LG128
LG132
LG134
LG152
LG153
LG163



RASGOS PARA ALOJAMENTO DAS TRAVESSAS CONSTRUÇÃO SEM BAGUETE - PORTA

Nota:

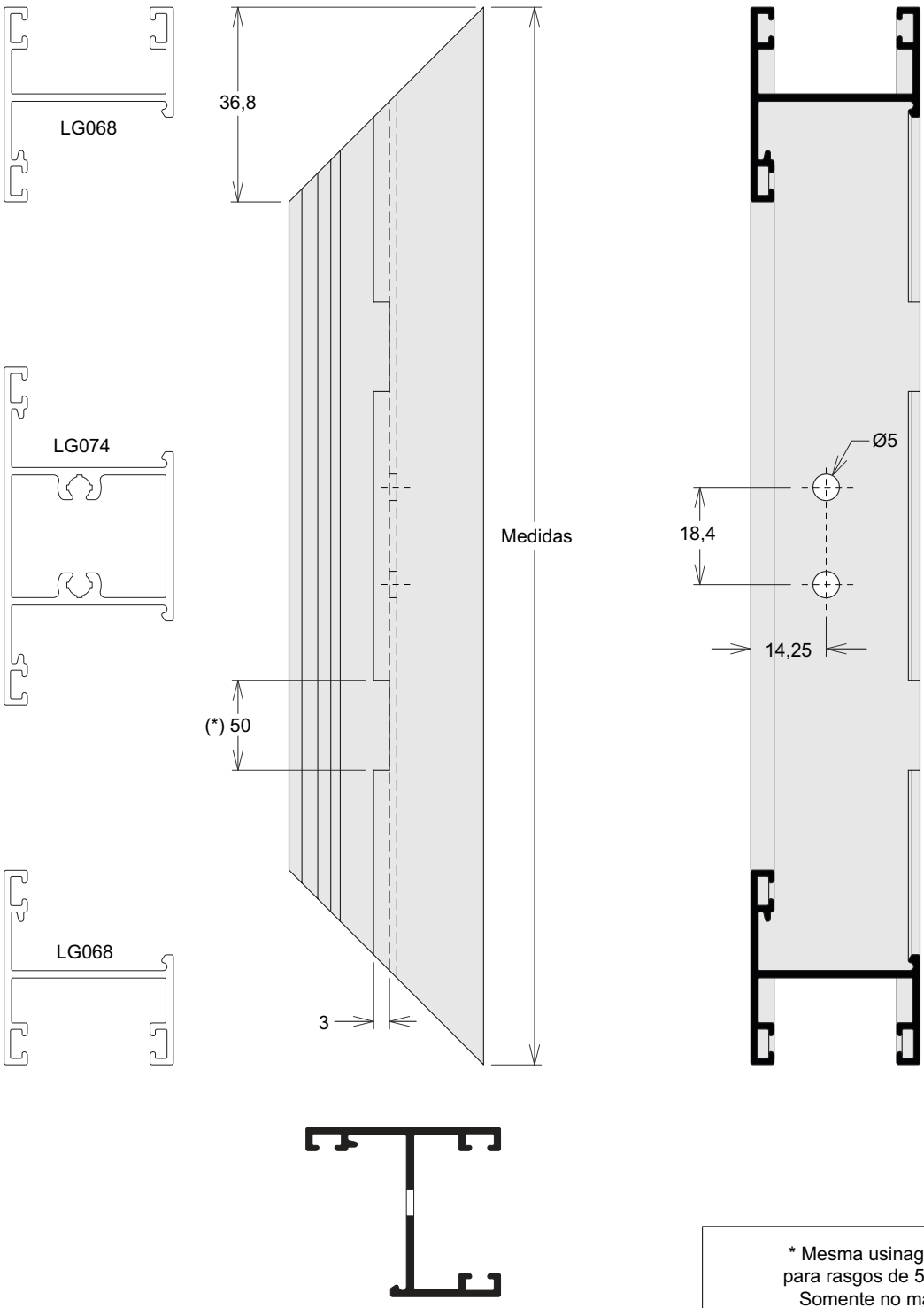
Peças conforme e contrário



Usinar Perfis
LG126
LG127
LG128
LG132
LG134
LG135
LG136
LG149
LG150
LG151
LG152
LG153
LG154
LG156
LG163

MARCO VERTICAL/HORIZONTAL CONSTRUÇÃO CADEIRINHA

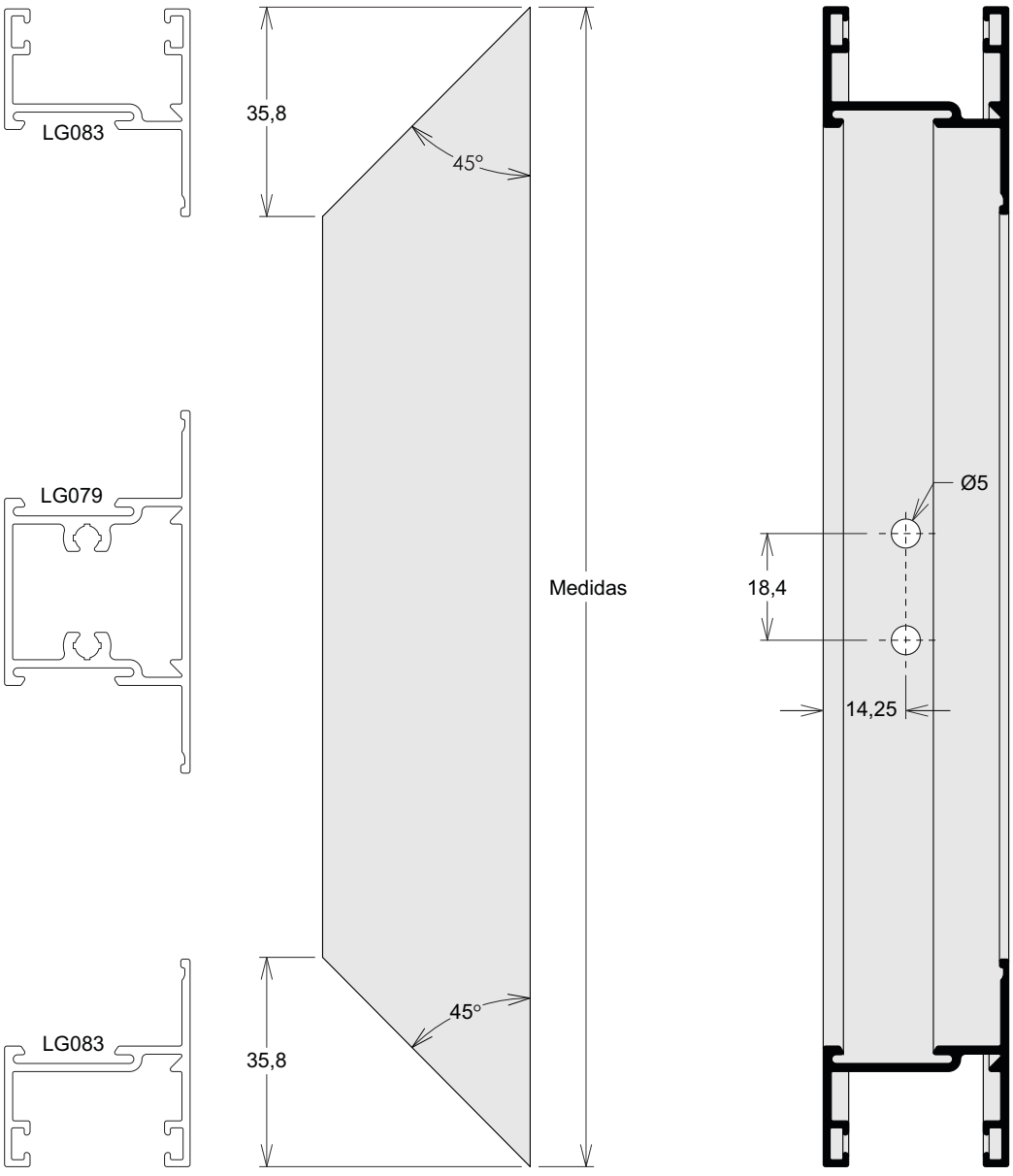
Usinar Perfis
LG068

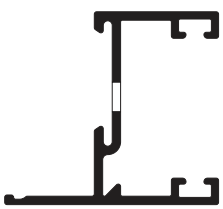


* Mesma usinagem do LG056 para rasgos de 50 mm x 3 mm. Somente no marco inferior.

MARCO VERTICAL/HORIZONTAL CONSTRUÇÃO CADEIRINHA

Usinar Perfis
LG083

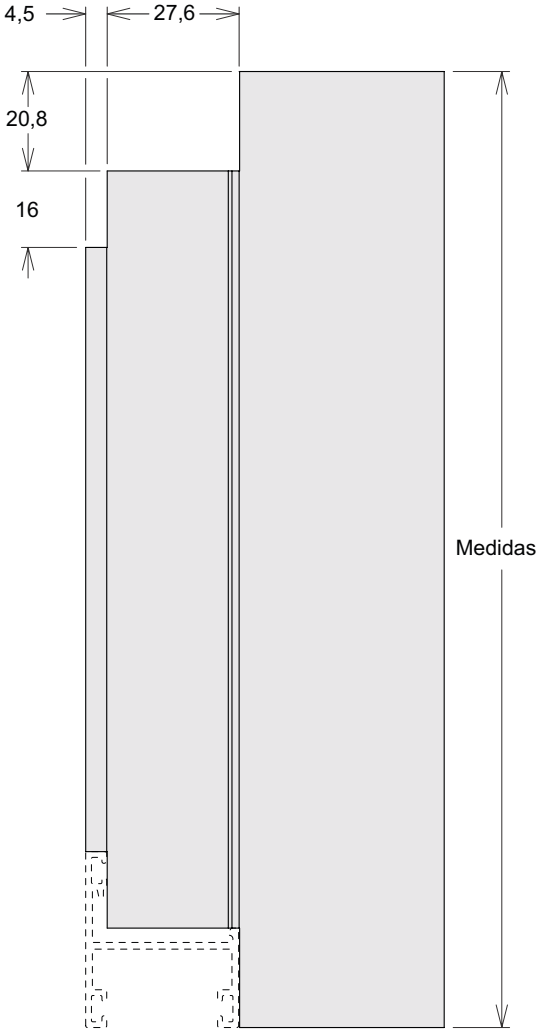


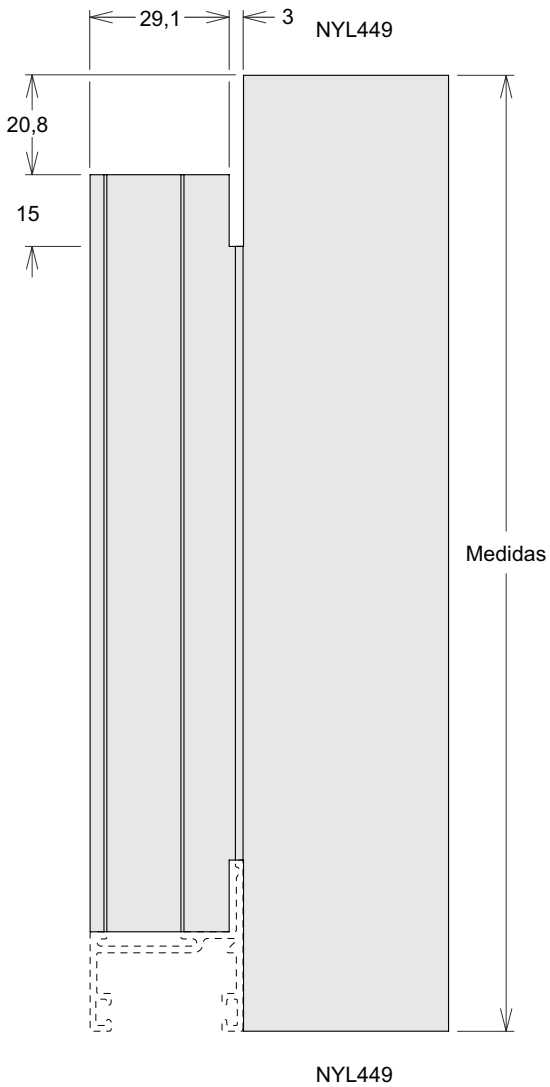


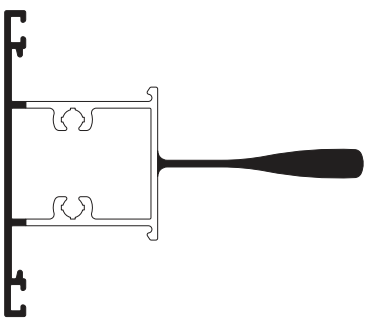
MONTANTE CENTRAL COM REFORÇO

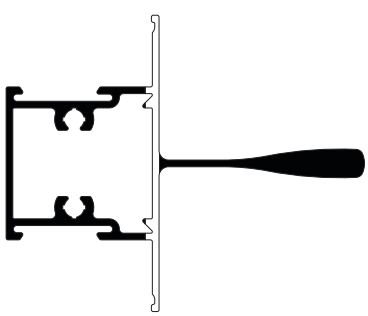
Usinar Perfis
LG075
LG080

Construção Cadeirinha



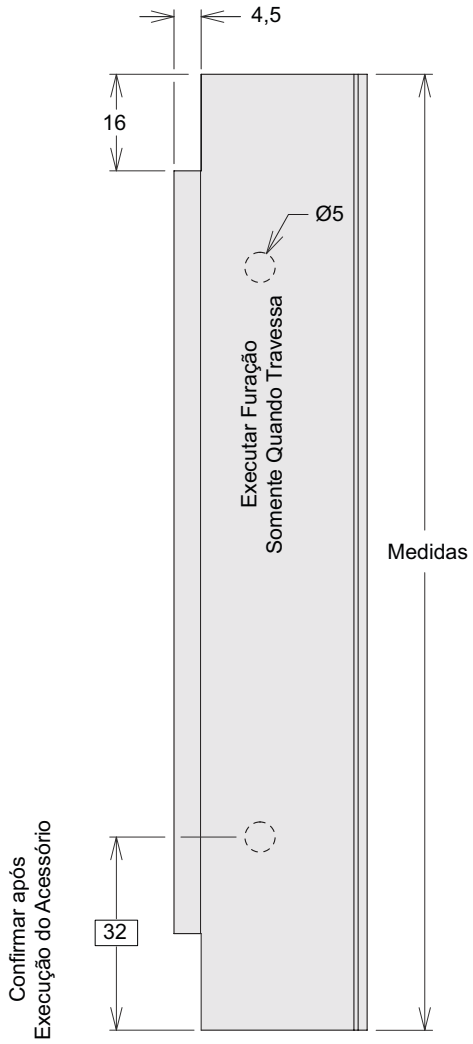


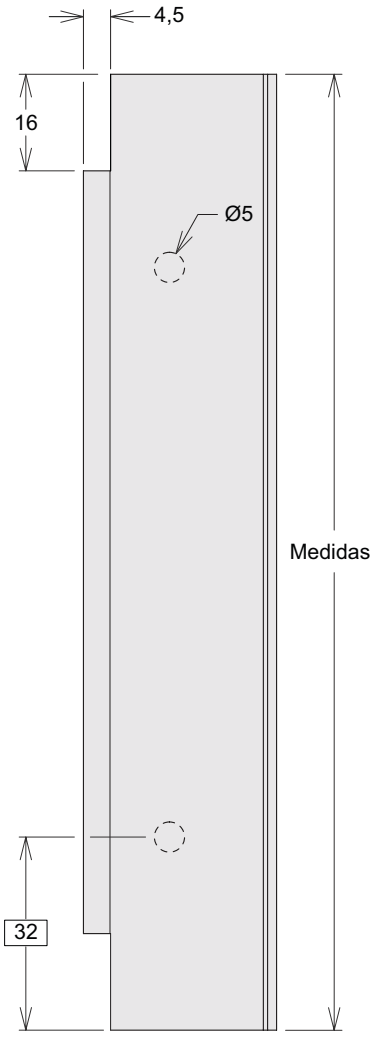


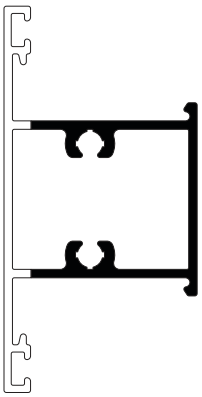


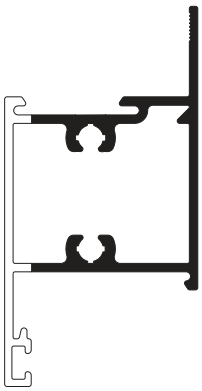
DESABE DAS TRAVESSAS

Usinar Perfis
LG074
LG076
LG079



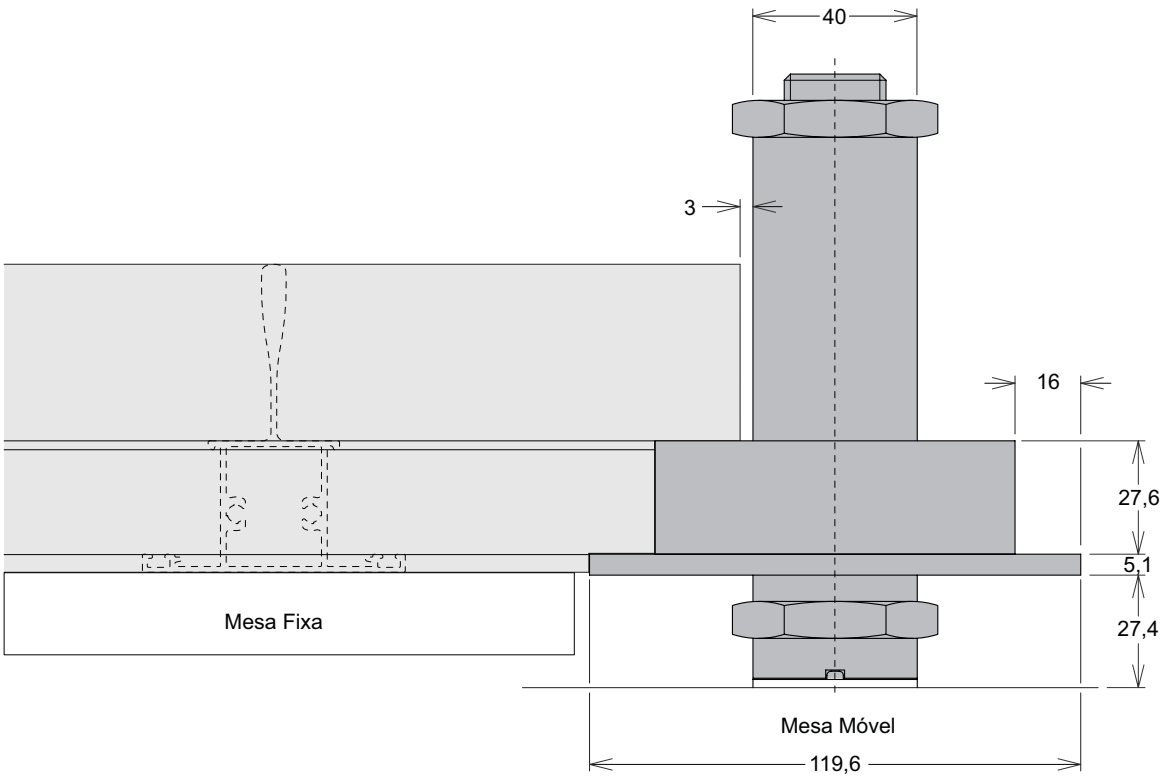






DETALHE DE USINAGEM COM ENTESTADEIRA

Usinar Perfis
LG074
LG075
LG076

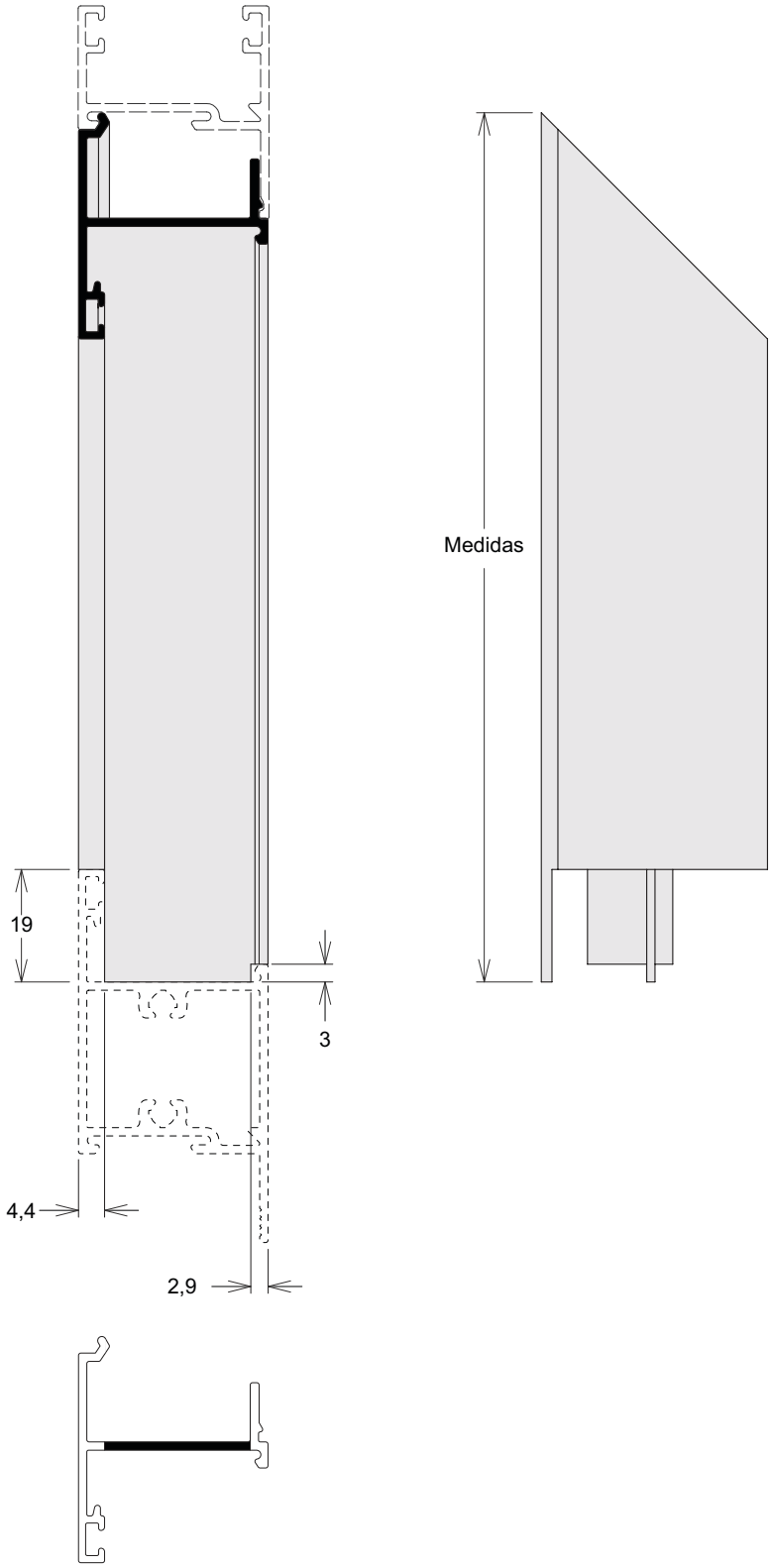


Fresa de Topo. As dimensões da fresa de topo são orientativas, devendo o fornecedor da fresa confirmá-las.

RECORTE DO INVERSOR DO MARCO

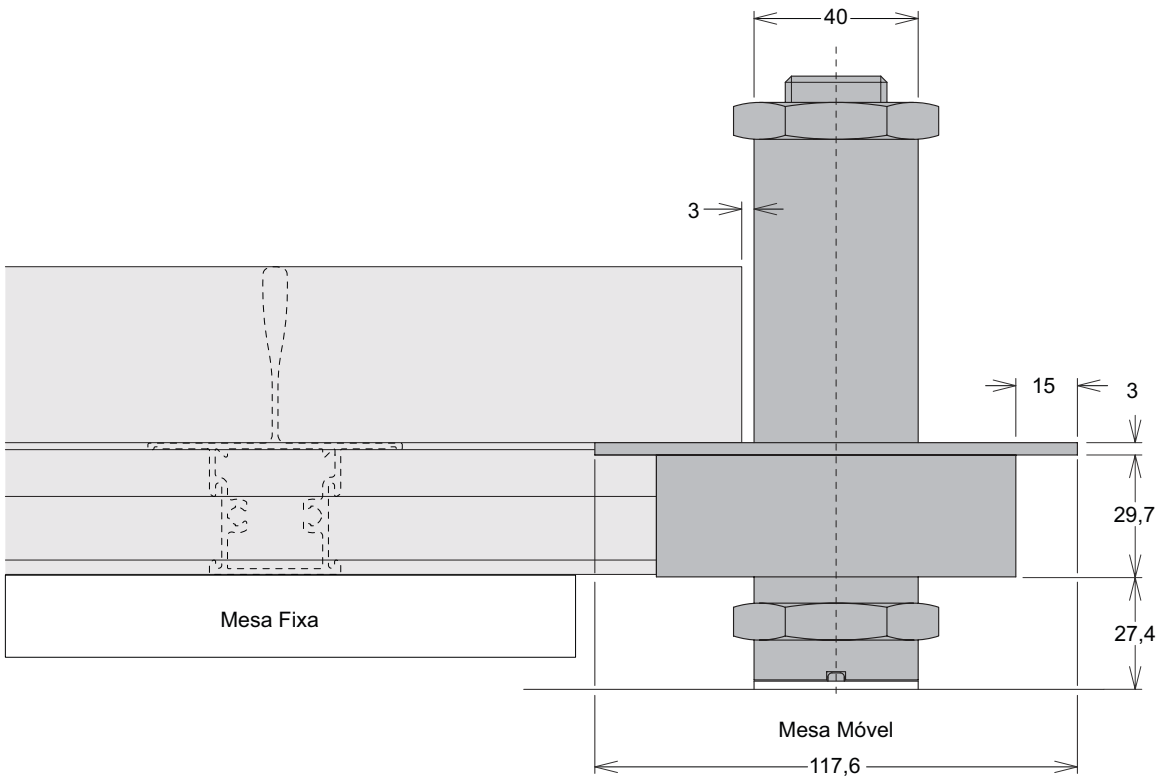
Usinar Perfis
LG082

Nota:
Peças conforme e contrário



DETALHE DE USINAGEM COM ENTESTADEIRA

Usinar Perfis
LG077
LG079
LG080

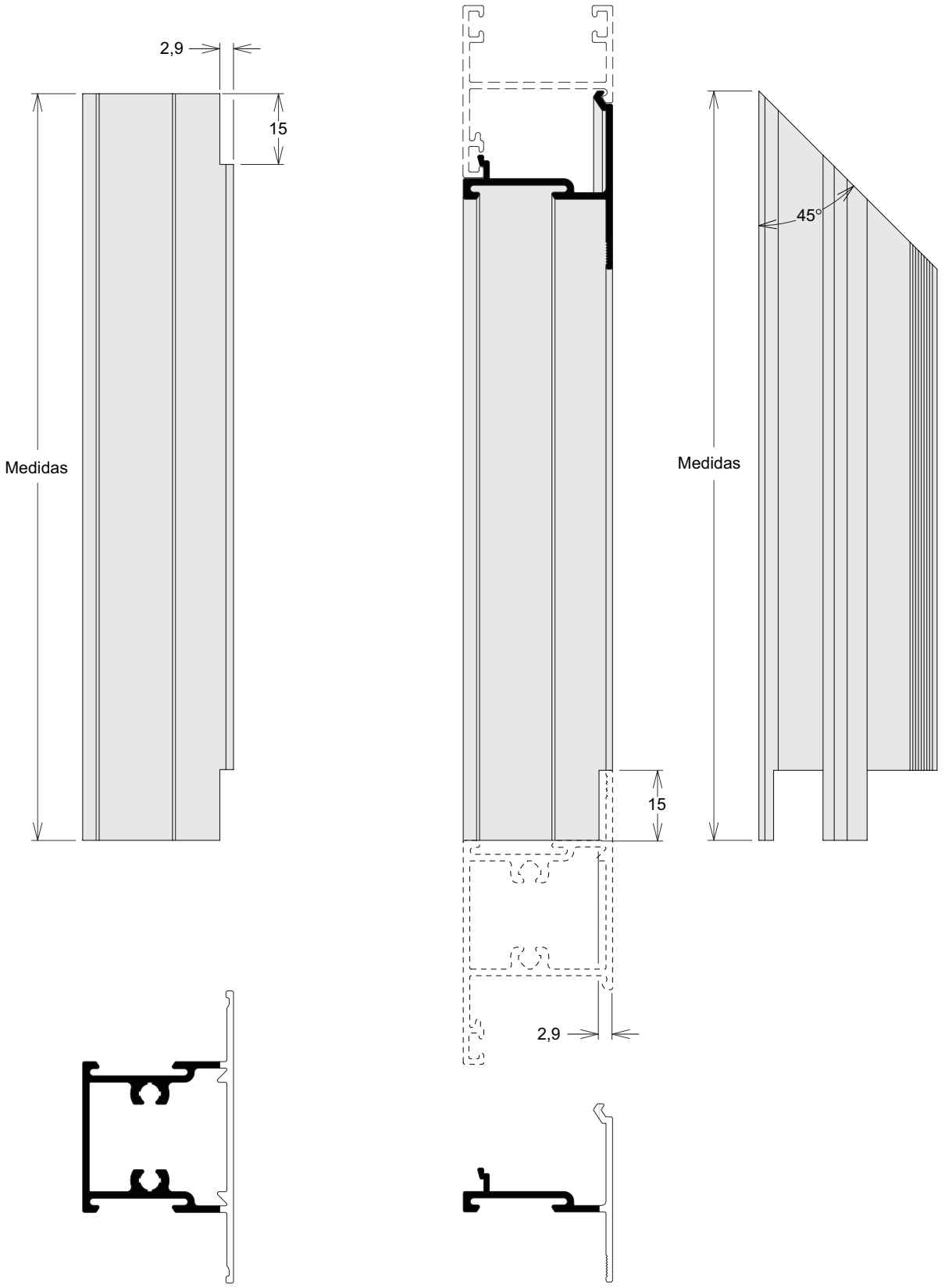


Fresa de Topo. As dimensões da fresa de topo são orientativas, devendo o fornecedor da fresa confirmá-las.

RECORTE DO INVERSOR DO MARCO

Usinar Perfis
LG077
LG079

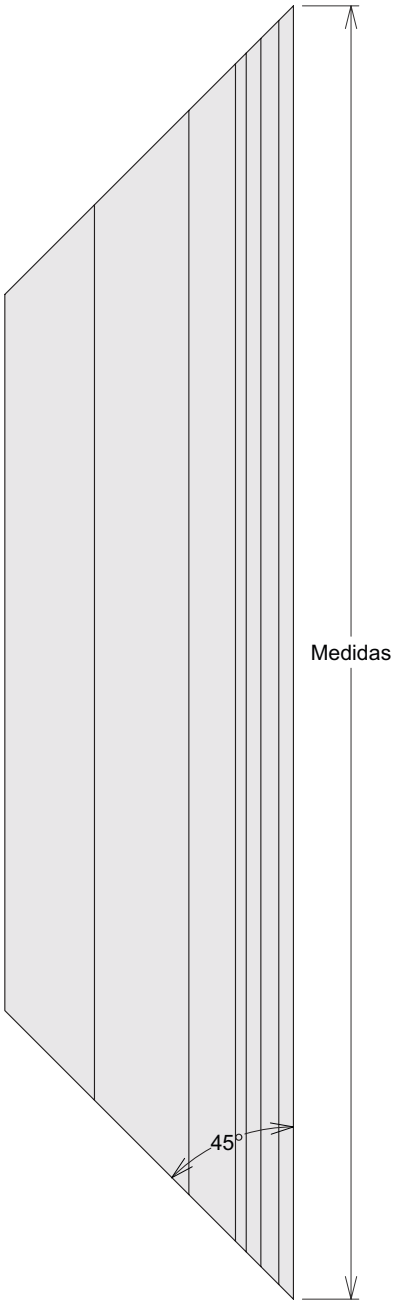
Nota:
Peças conforme e contrário

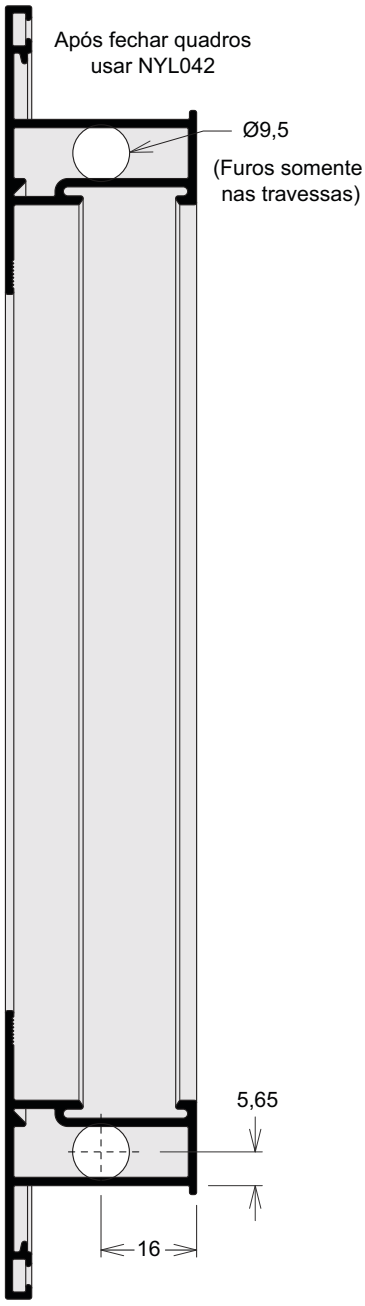


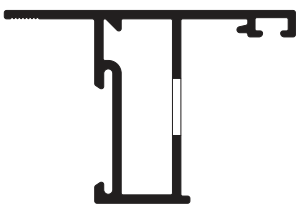
QUADRO DA FOLHA MAXIM-AR

Usinar Perfis

LG085







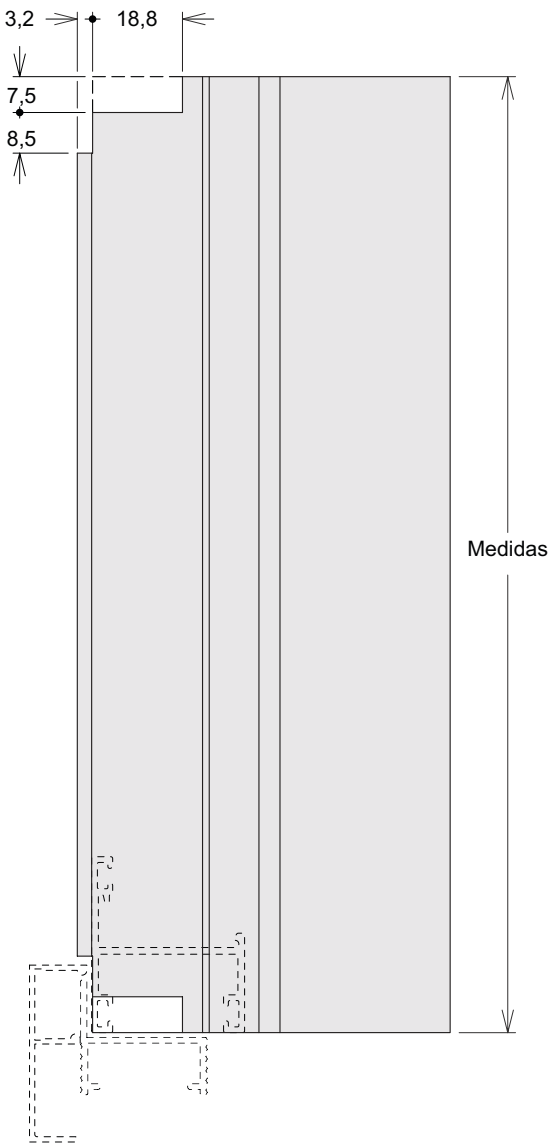
Para instalação dos fechos, consultar fornecedor para definição da usinagem.

RECORTE DO REFORÇO DO MARCO

Usinar Perfis

LG093

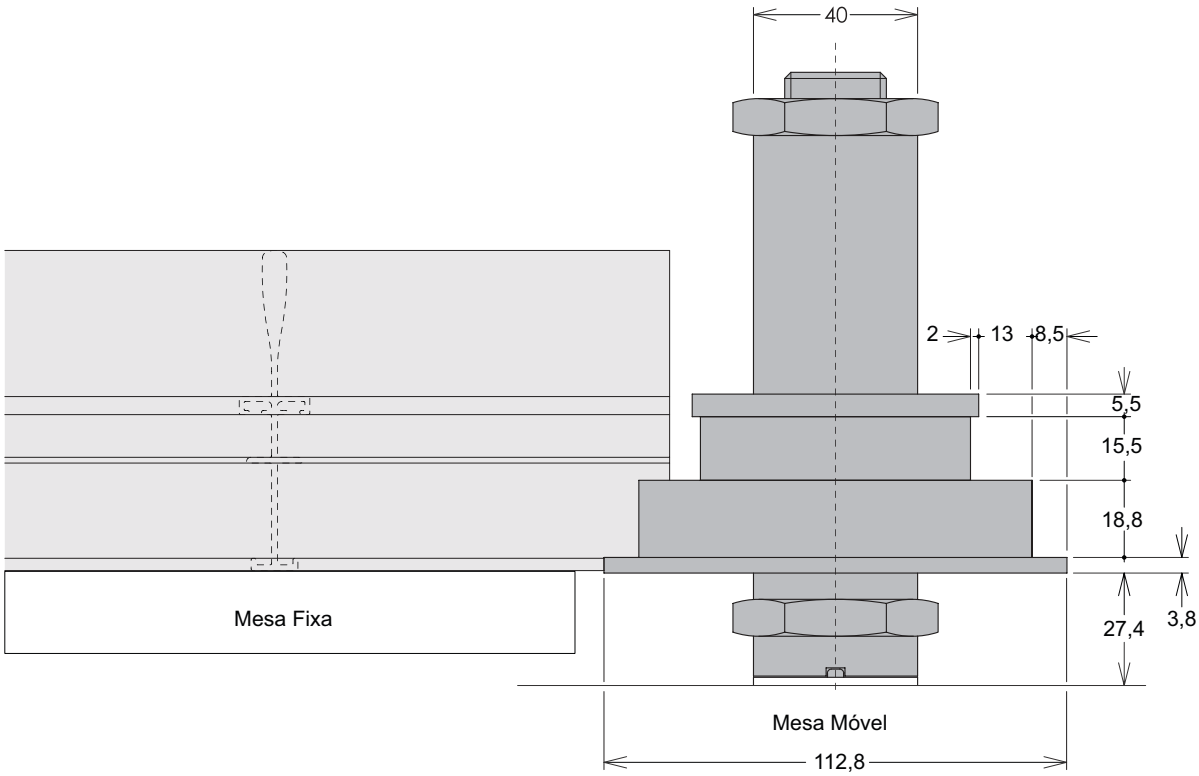
Construção Cadeirinha



DETALHE DE USINAGEM COM ENTESTADEIRA

Usinar Perfis
LG093

Construção Cadeirinha

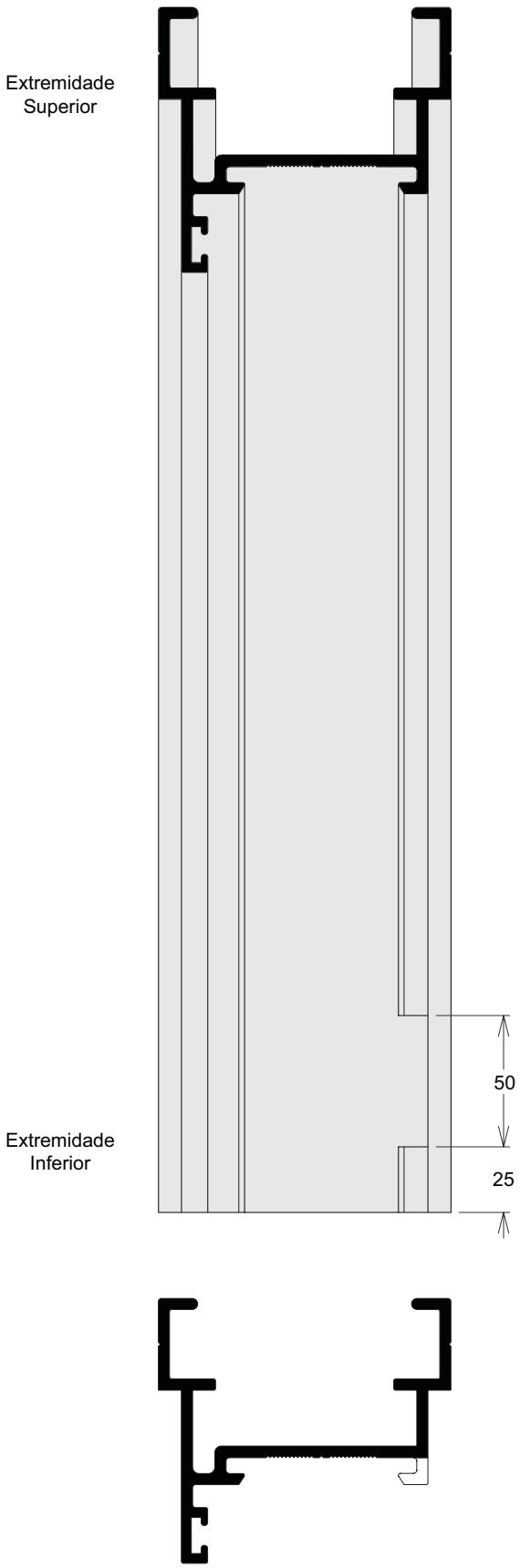


Fresa de Topo. As dimensões da fresa de topo são orientativas, devendo o fornecedor da fresa confirmá-las.

RECORTE DO MARCO - PORTA DE GIRO

Usinar Perfis
LG056

Nota:
Peças conforme e contrário

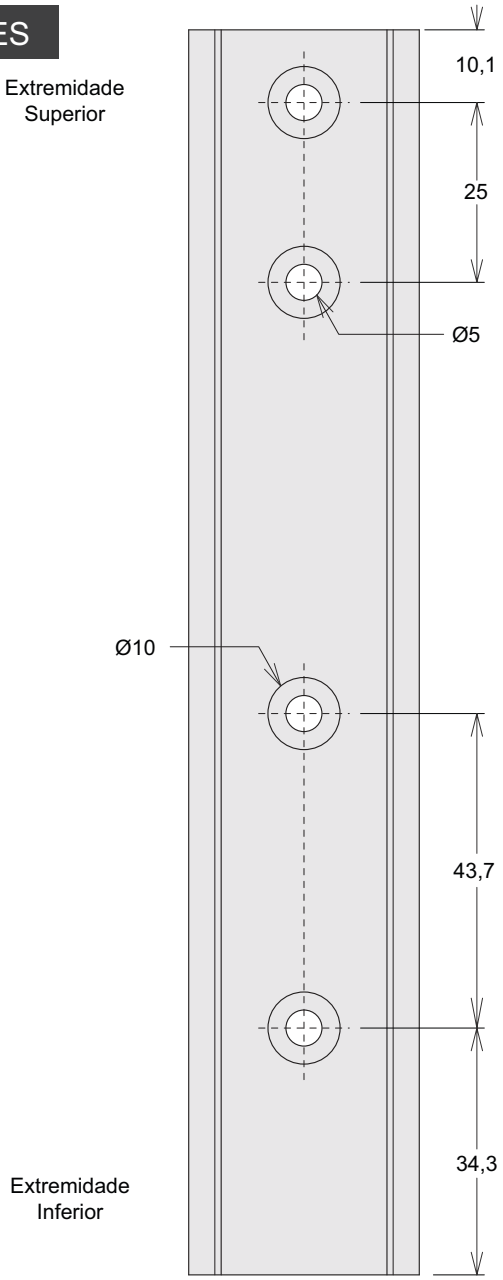


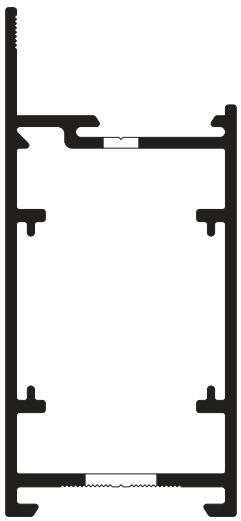
FIXAÇÃO DOS MONTANTES

Usinar Perfis
LG043

Nota:

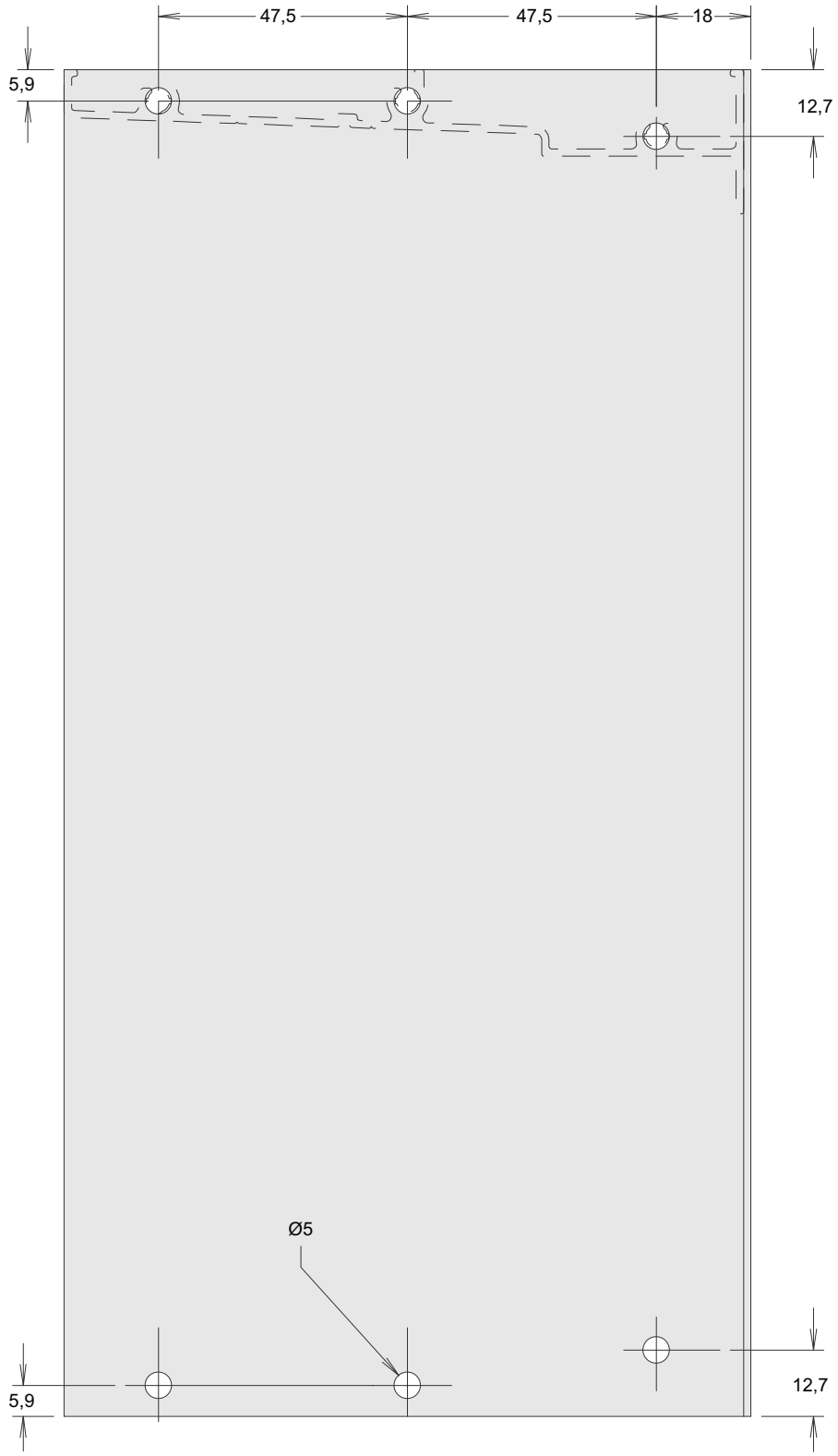
Peças conforme e contrário





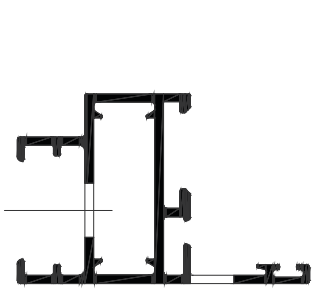
MONTANTE DO MARCO

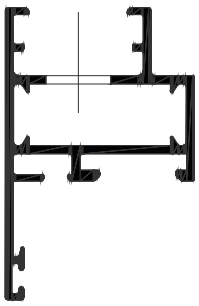
Usinar Perfis
LG239

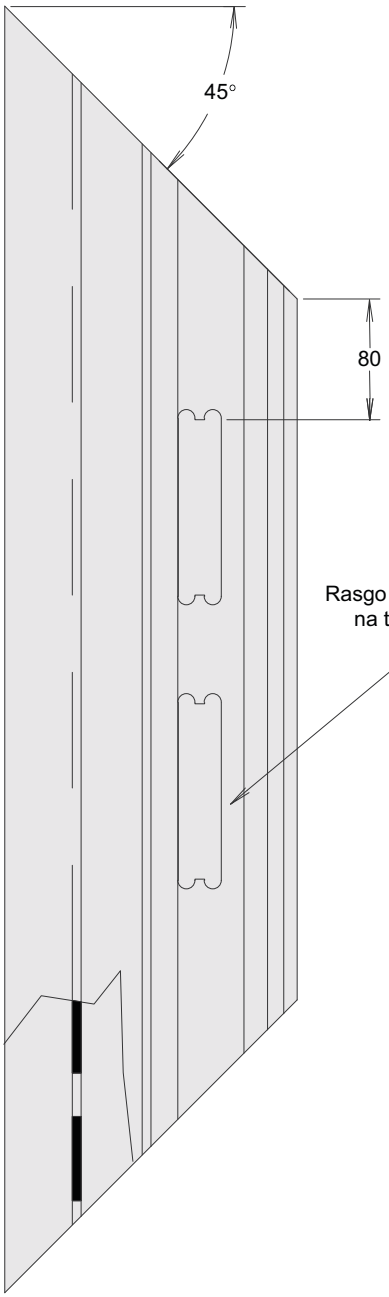


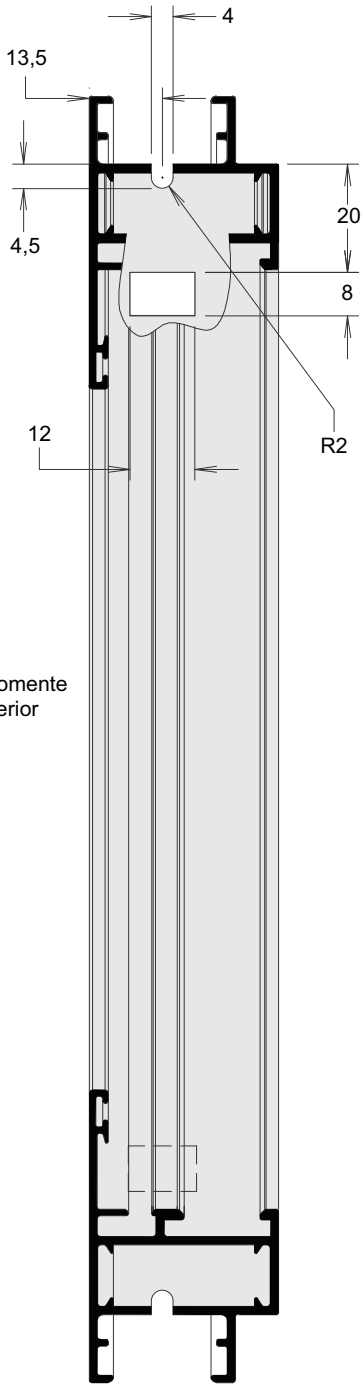
TRAVESSA E MONTANTE DO MARCO

Usinar Perfis
LG240



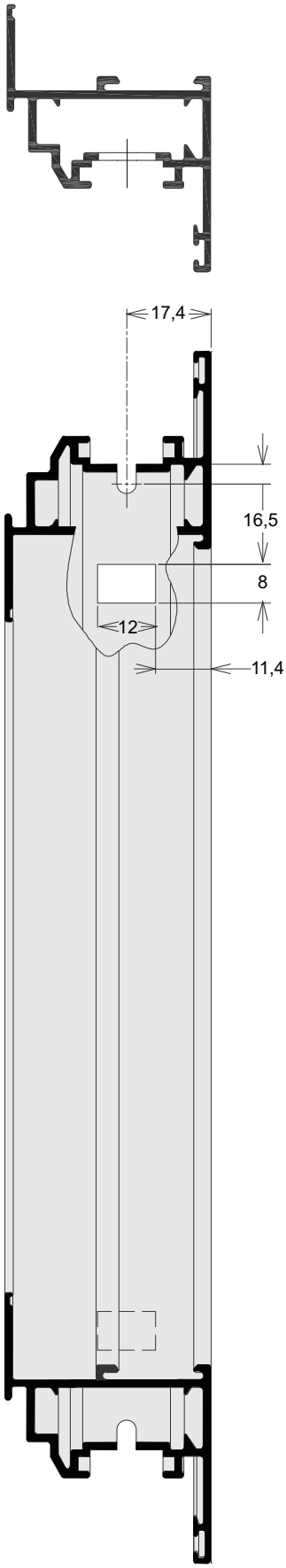






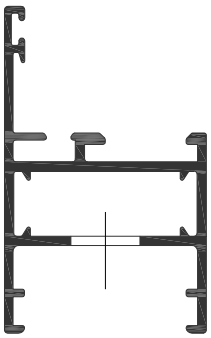
TRAVESSA E MONTANTE DA FOLHA

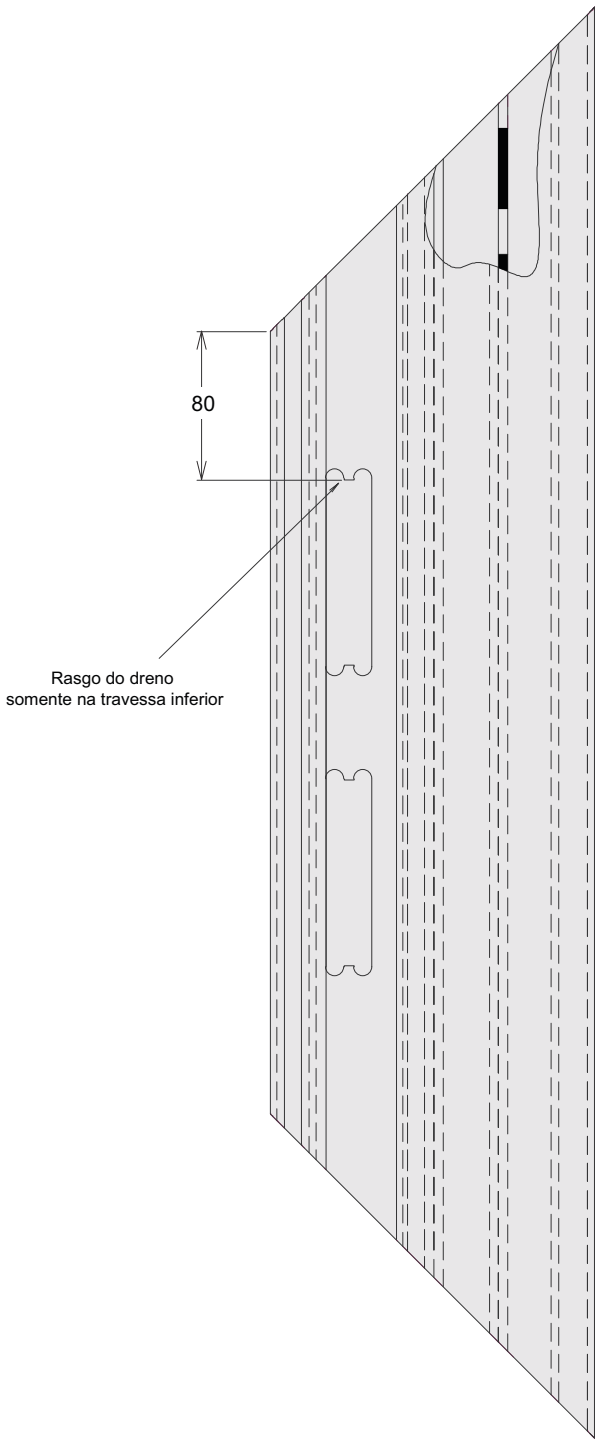
Usinar Perfis
LG099

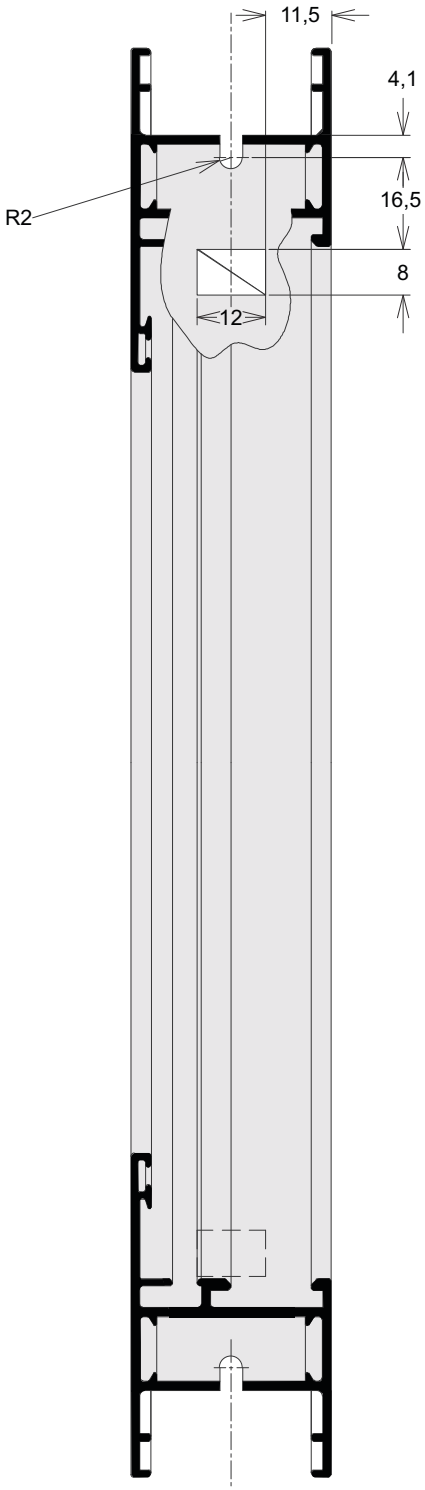


TRAVESSA E MONTANTE DO MARCO

Usinar Perfis
LG103

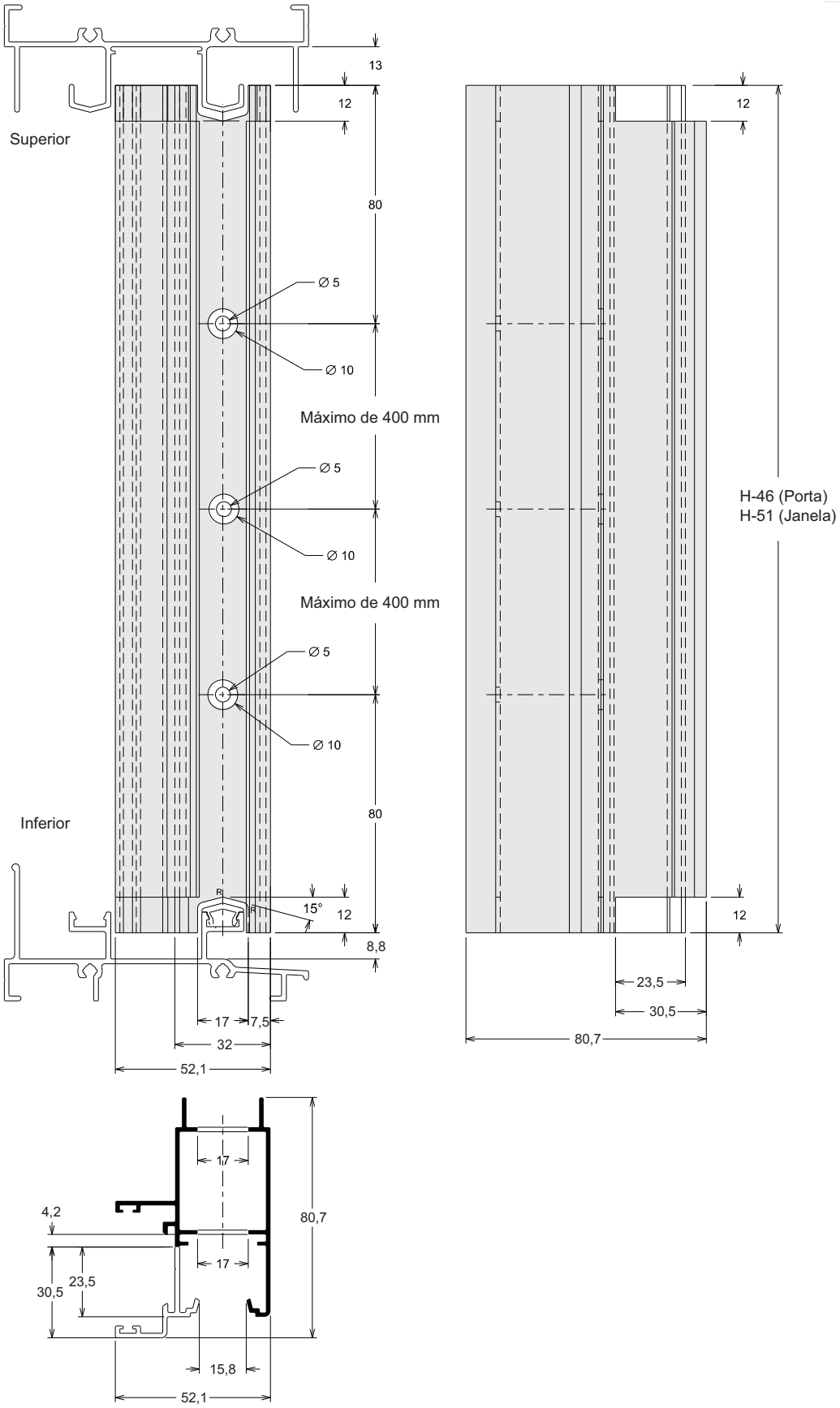






MONTANTE CANTO 90 º

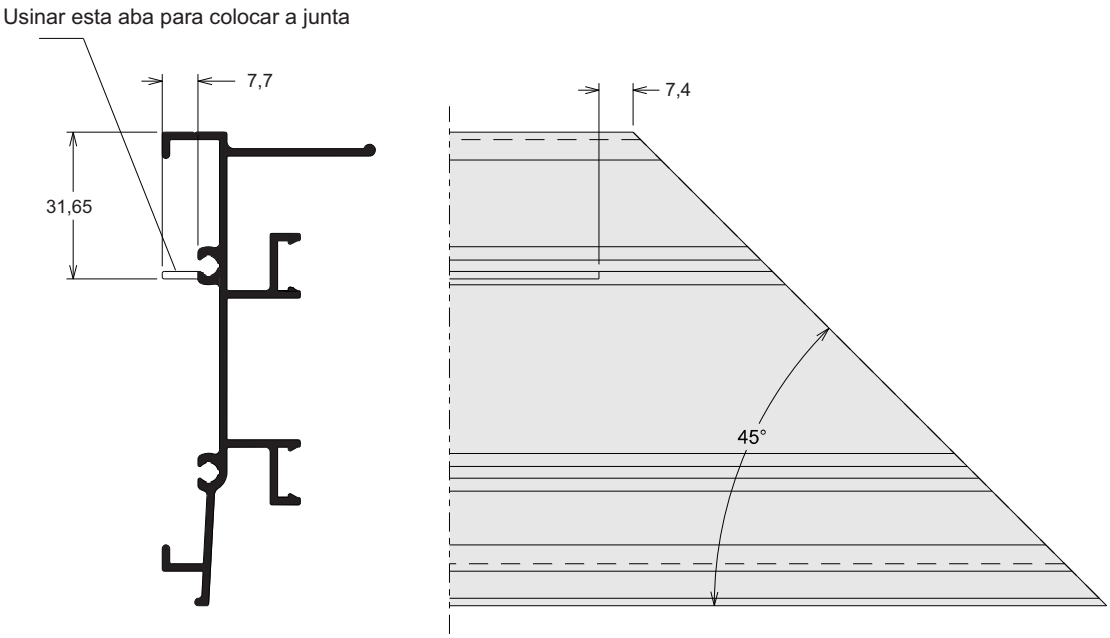
Usinar Perfis
LG235



TRILHO CANTO 90º

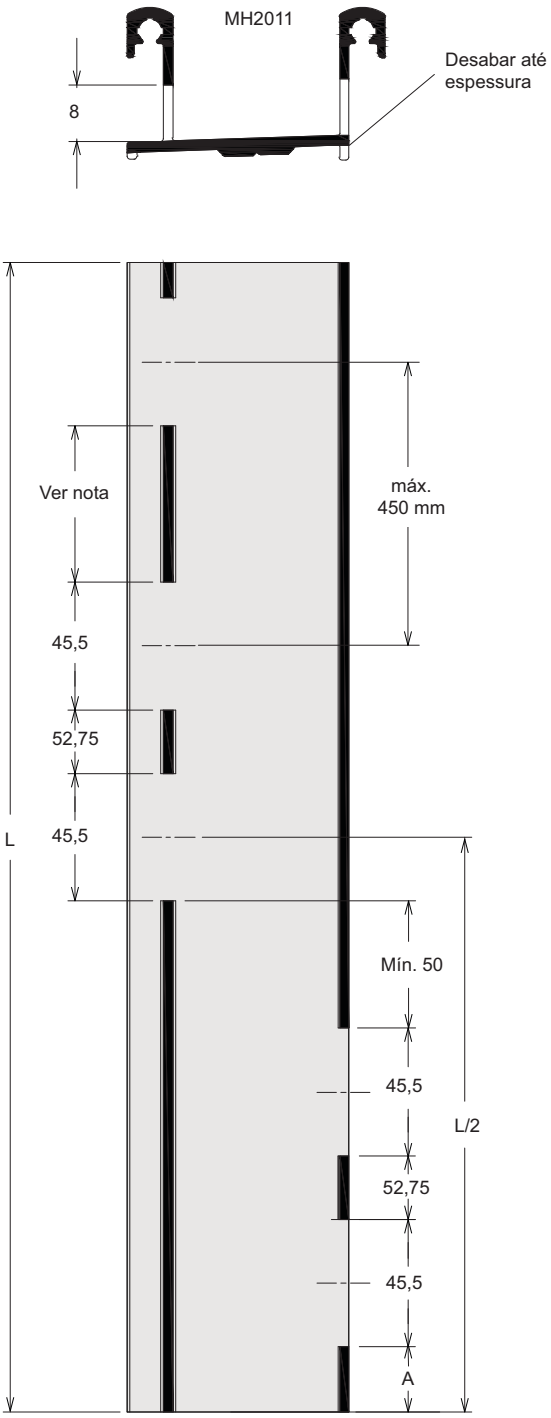
Usinar Perfis

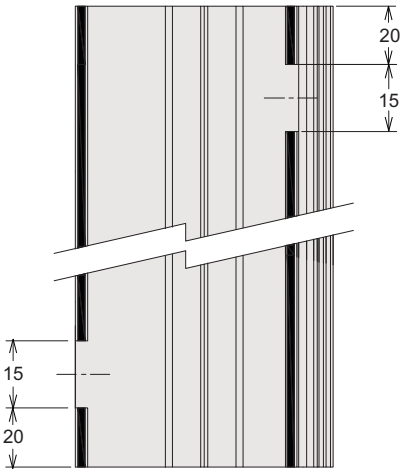
LG115



RASGOS DE ESCOAMENTO E CAIXA DE DRENO RENOVA – MASTER

Medida (mm)	Janela
A	60

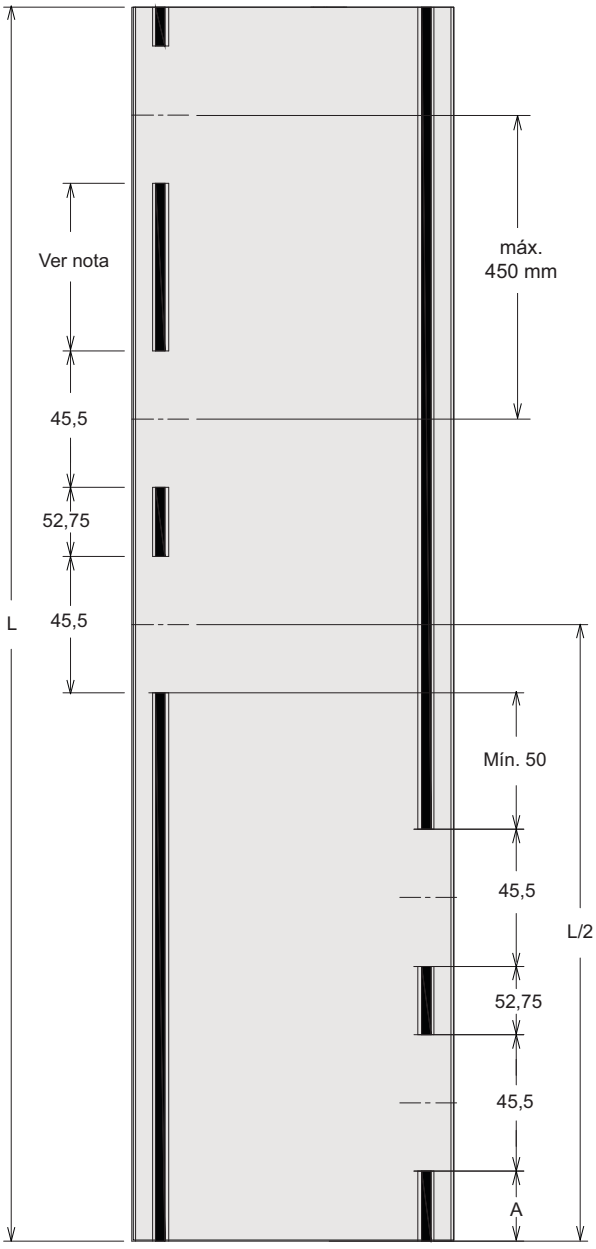


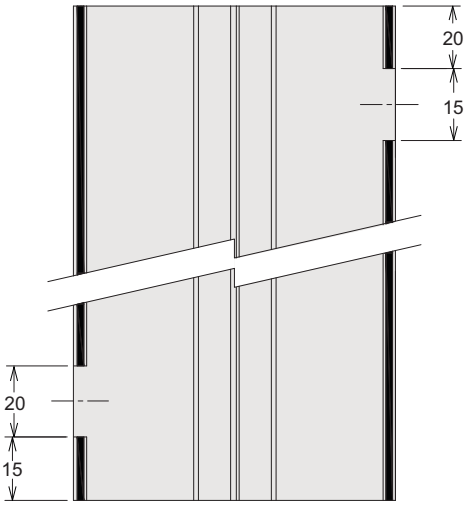


Vista Inferior

RASGOS DE ESCOAMENTO E CAIXA DE DRENO RENOVA – INOVA

Medida (mm)	Janela
A	60



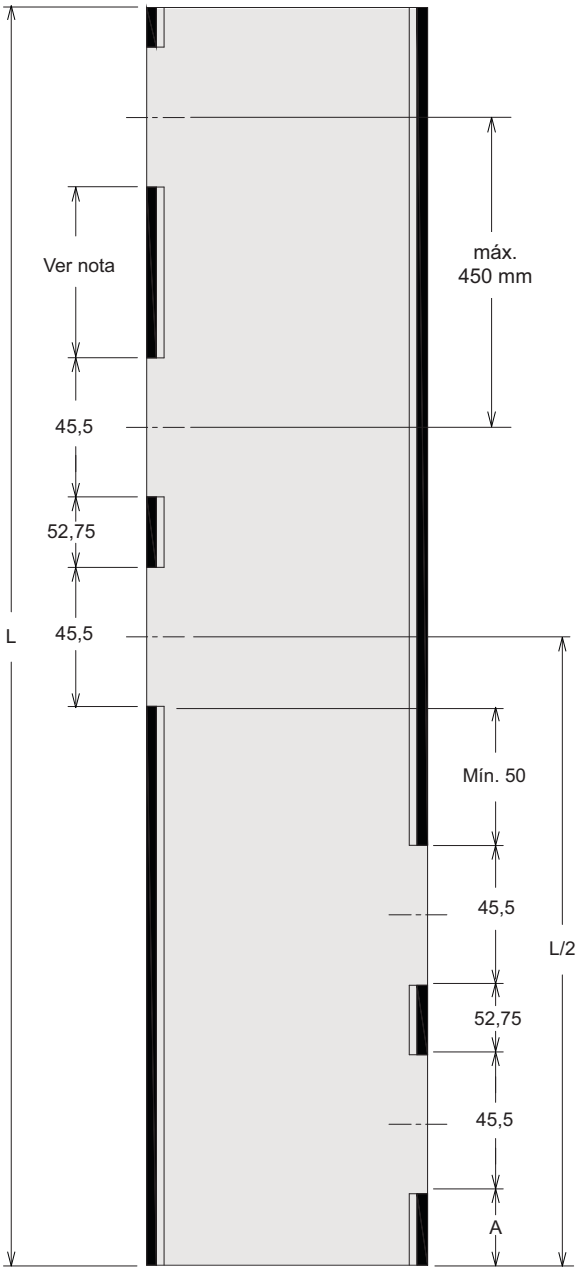


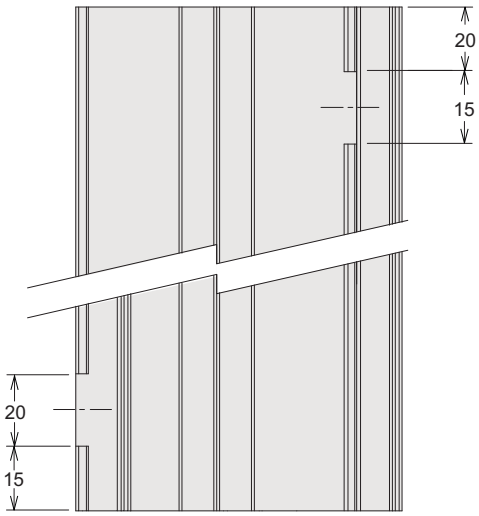
Vista Inferior

RASGOS DE ESCOAMENTO E CAIXA DE DRENO RENOVA – LINHA 25

Medida (mm)	Janela
A	60

Espaçamento: máximo de 450mm a 500mm, entre os eixos.
Para vãos maiores, aumentar o número de rasgos do escoamento





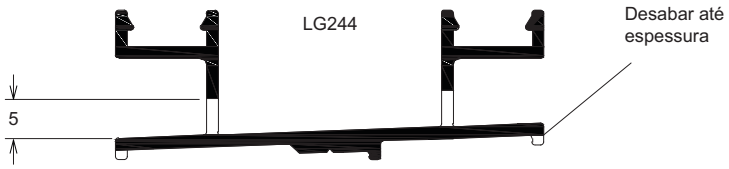
Vista Inferior

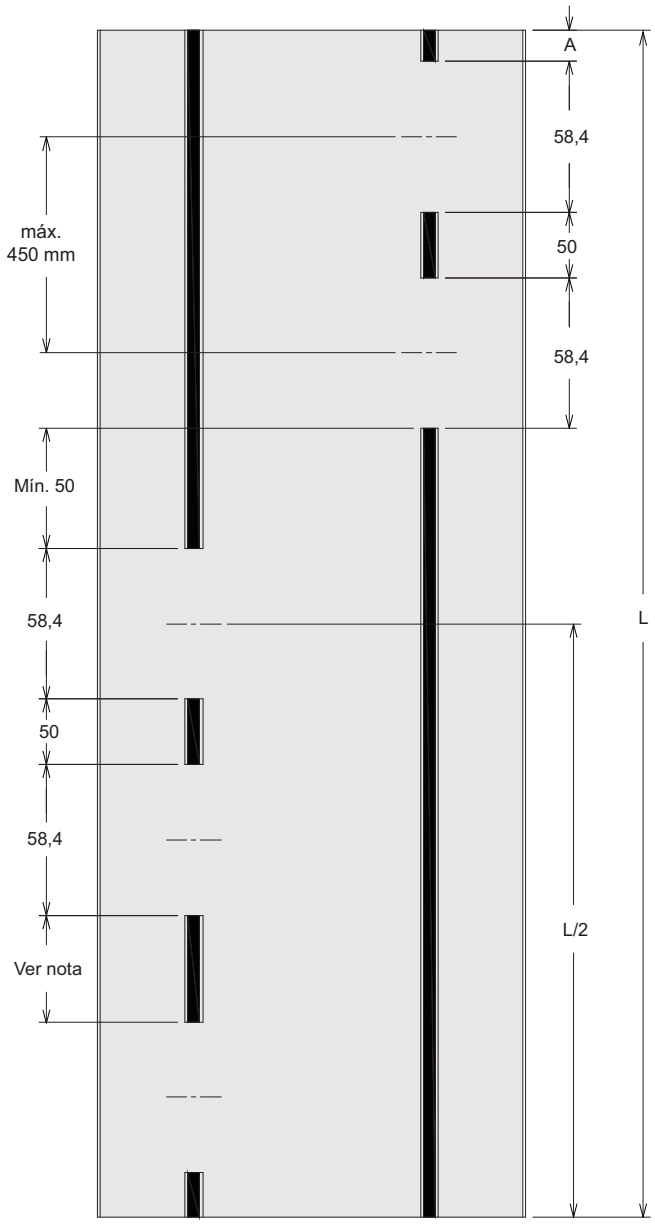
RASGOS DE ESCOAMENTO E CAIXA DE DRENO RENOVA – GOLD

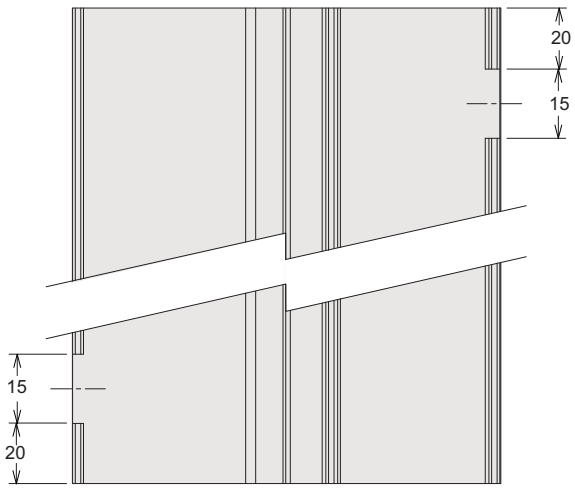
Medida (mm)	Janela
A	60

Nota:

Espaçamento: máximo de 450mm a 500mm, entre os eixos.
Para vãos maiores, aumentar o número de rasgos do escoamento



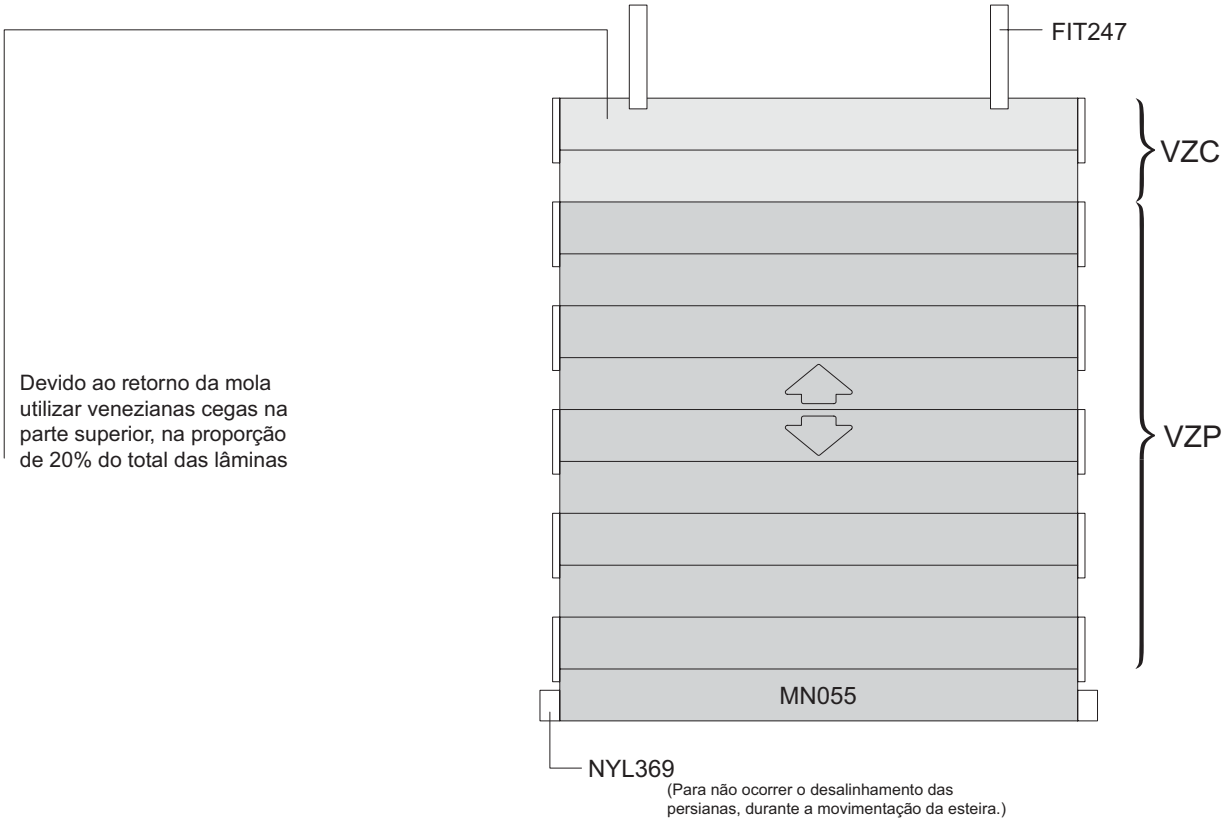




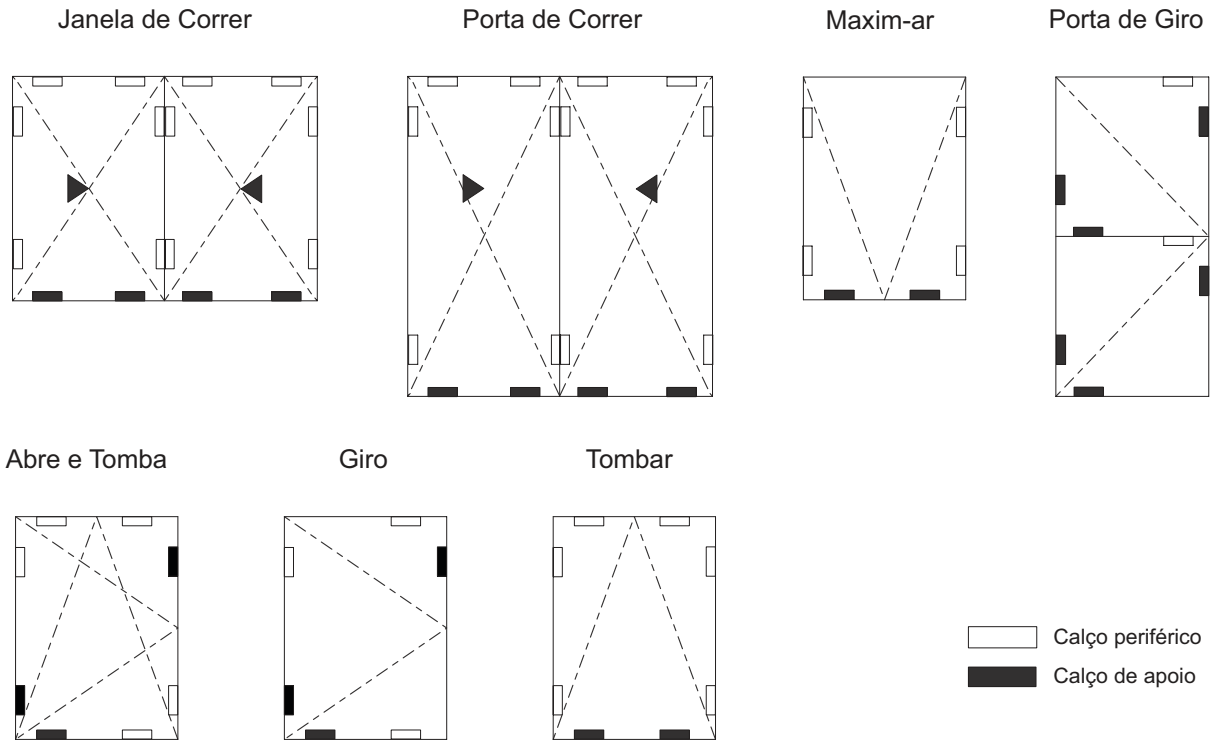
Vista Inferior


IV
GOLD®

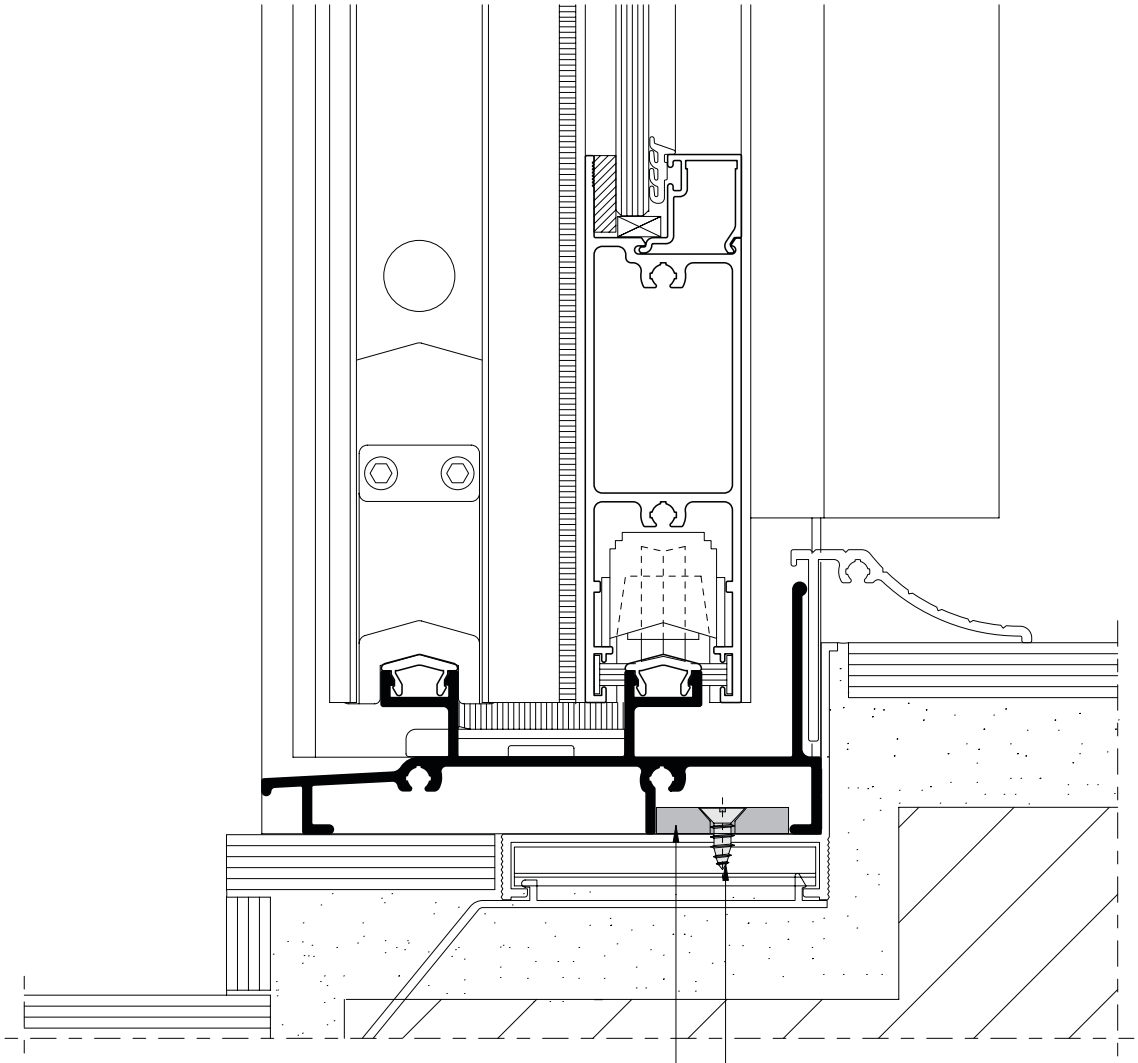
ORIENTAÇÃO DE MONTAGEM DOS PAINÉIS DE PERSIANA



INSTRUÇÕES DE POSICIONAMENTO DOS CALÇOS DO VIDRO



DETALHE DE APLICAÇÃO DE CALÇO PARA EVITAR A DEFLEXÃO DO TRILHO DA PORTA DE CORRER

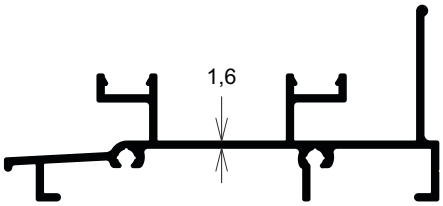


Calços em barra chata, perfil BC180 (24 mm x 3,5 mm) com 40 mm.

Parafuso AA 4,2 mm x 16 mm CX - aço inox.

ATENÇÃO! Fixar os calços aplicando silicone na parte inferior.

Trilho Gold LG159



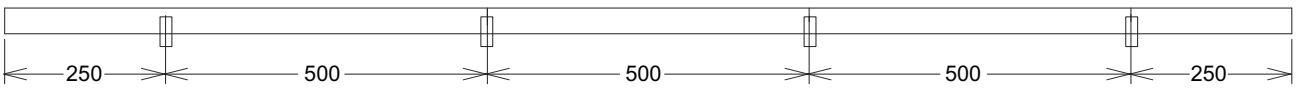
Módulo 2000 x 2000 mm

Pressão de ensaio = 150 km/m^2

Pressão de sucção = 120 kg/m^2

Parafuso diâmetro = 4,8 mm aço inox

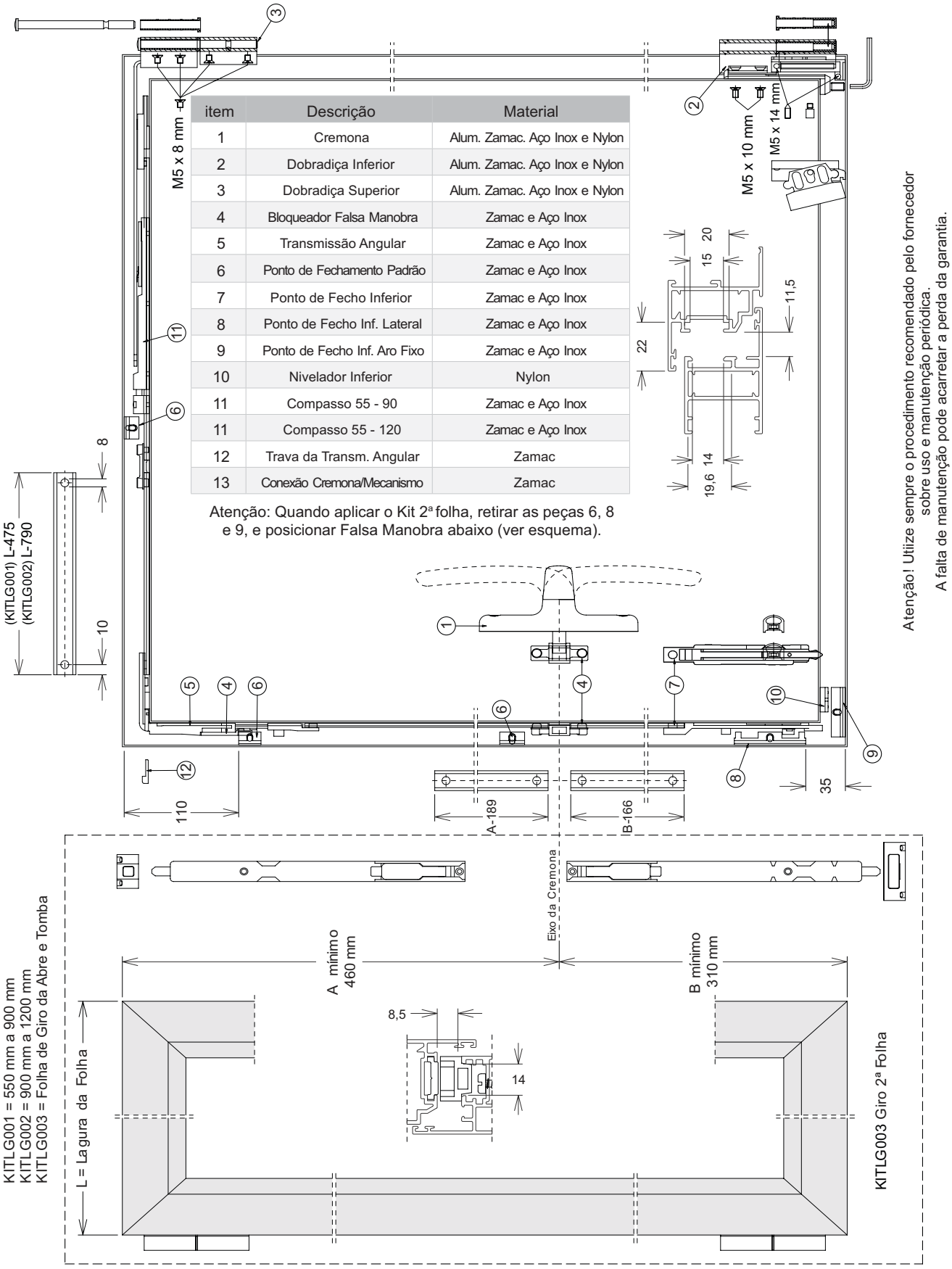
Exemplo de fixação do trilho



KIT ABRE E TOMBA KITLG001 / KITLG002

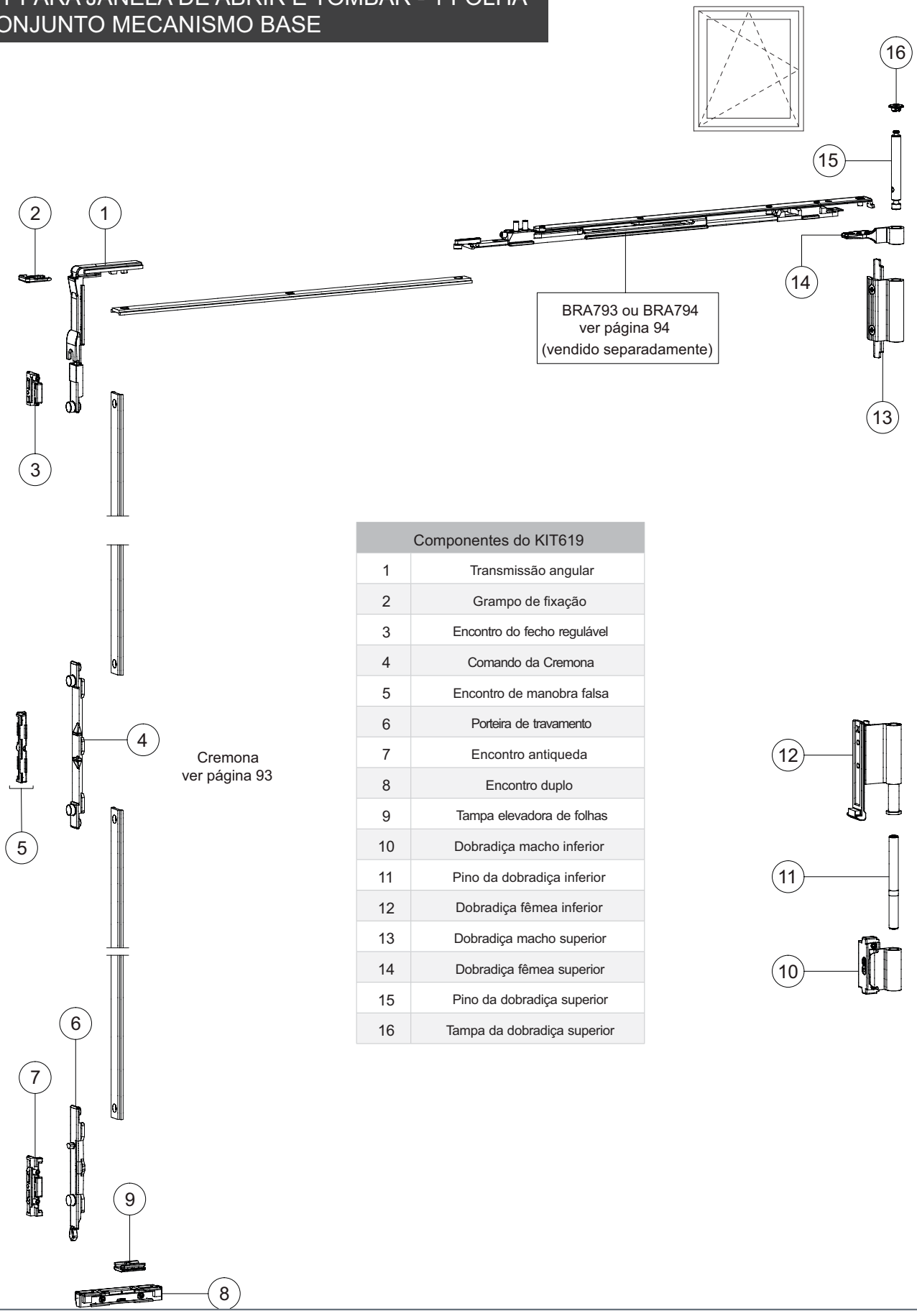
item	Descrição	Material
1	Cremona	Alum. Zamac. Aço Inox e Nylon
2	Dobradiça Inferior	Alum. Zamac. Aço Inox e Nylon
3	Dobradiça Superior	Alum. Zamac. Aço Inox e Nylon
4	Bloqueador Falsa Manobra	Zamac e Aço Inox
5	Transmissão Angular	Zamac e Aço Inox
6	Ponto de Fechamento Padrão	Zamac e Aço Inox
7	Ponto de Fecho Inferior	Zamac e Aço Inox
8	Ponto de Fecho Inf. Lateral	Zamac e Aço Inox
9	Ponto de Fecho Inf. Aro Fixo	Zamac e Aço Inox
10	Nivelador Inferior	Nylon
11	Compasso 55 - 90	Zamac e Aço Inox
11	Compasso 55 - 120	Zamac e Aço Inox
12	Trava da Transm. Angular	Zamac
13	Conexão Cremona/Mecanismo	Zamac

Atenção: Quando aplicar o Kit 2ª folha, retirar as peças 6, 8 e 9, e posicionar Falsa Manobra abaixo (ver esquema).



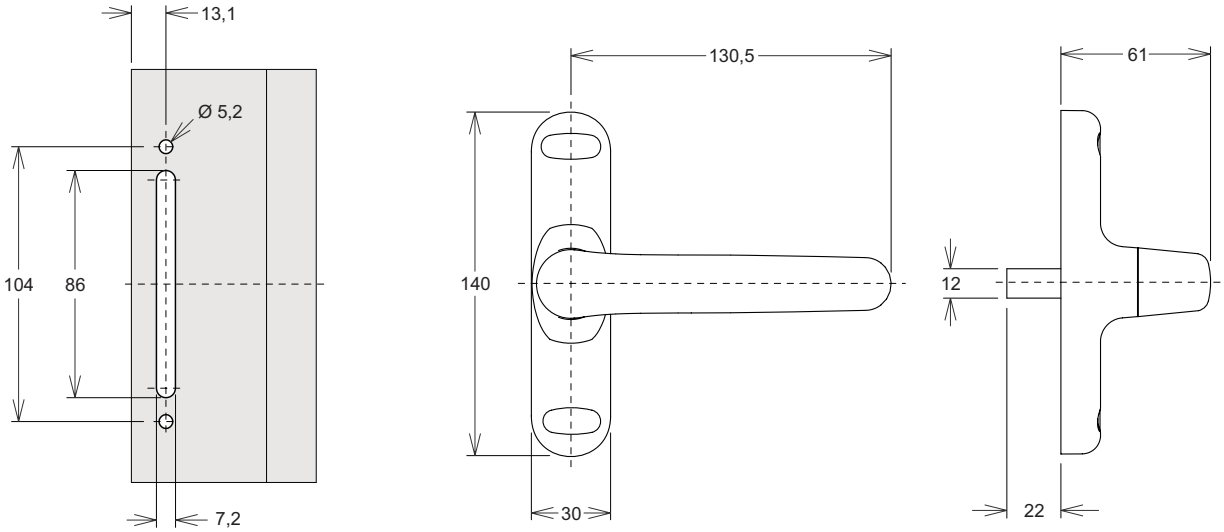
Atenção! Utiize sempre o procedimento recomendado pelo fornecedor sobre uso e manutenção periódica.
A falta de manutenção pode acarretar a perda da garantia.

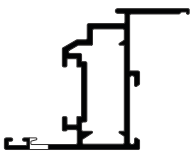
KIT PARA JANELA DE ABRIR E TOMBAR - 1 FOLHA
CONJUNTO MECANISMO BASE



Componentes do KIT619	
1	Transmissão angular
2	Grampo de fixação
3	Encontro do fecho regulável
4	Comando da Cremona
5	Encontro de manobra falsa
6	Porteira de travamento
7	Encontro antiqueda
8	Encontro duplo
9	Tampa elevadora de folhas
10	Dobradiça macho inferior
11	Pino da dobradiça inferior
12	Dobradiça fêmea inferior
13	Dobradiça macho superior
14	Dobradiça fêmea superior
15	Pino da dobradiça superior
16	Tampa da dobradiça superior

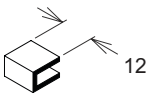
USINAGEM PARA CREMONA (PARA KITLG001 E KITLG002)



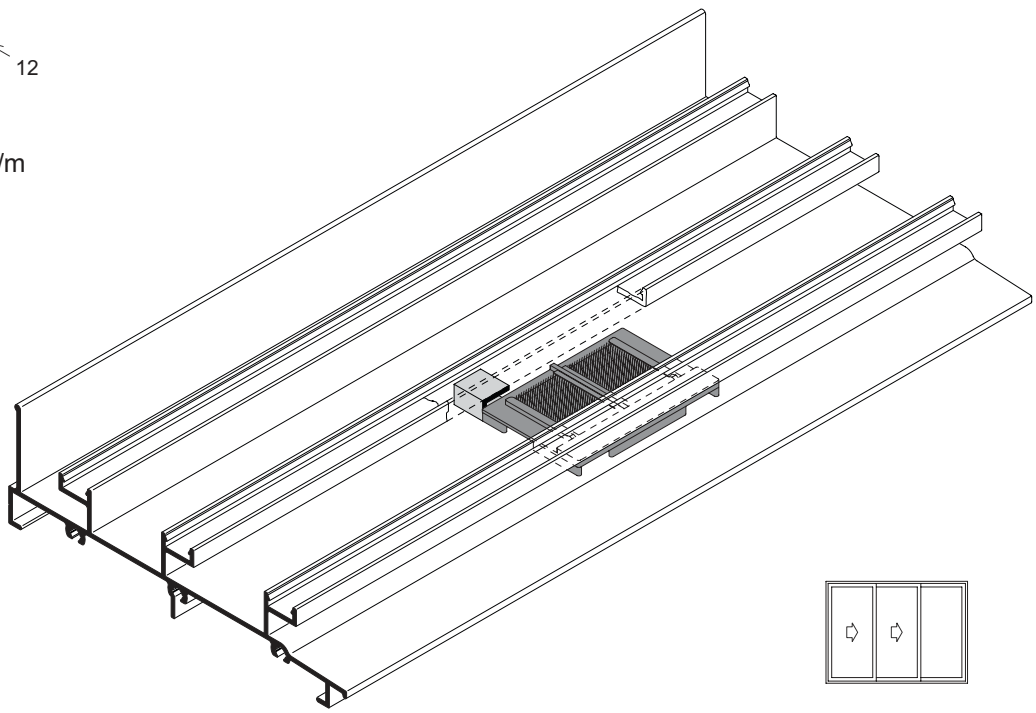


LG099

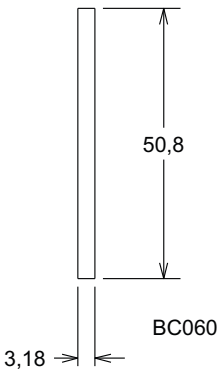
CALÇO PARA CAIXA DE DRENO (JANELA E PORTA DE CORRER, TRÊS PLANOS)

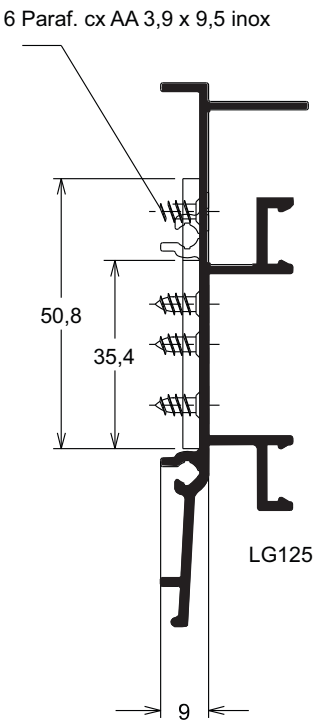


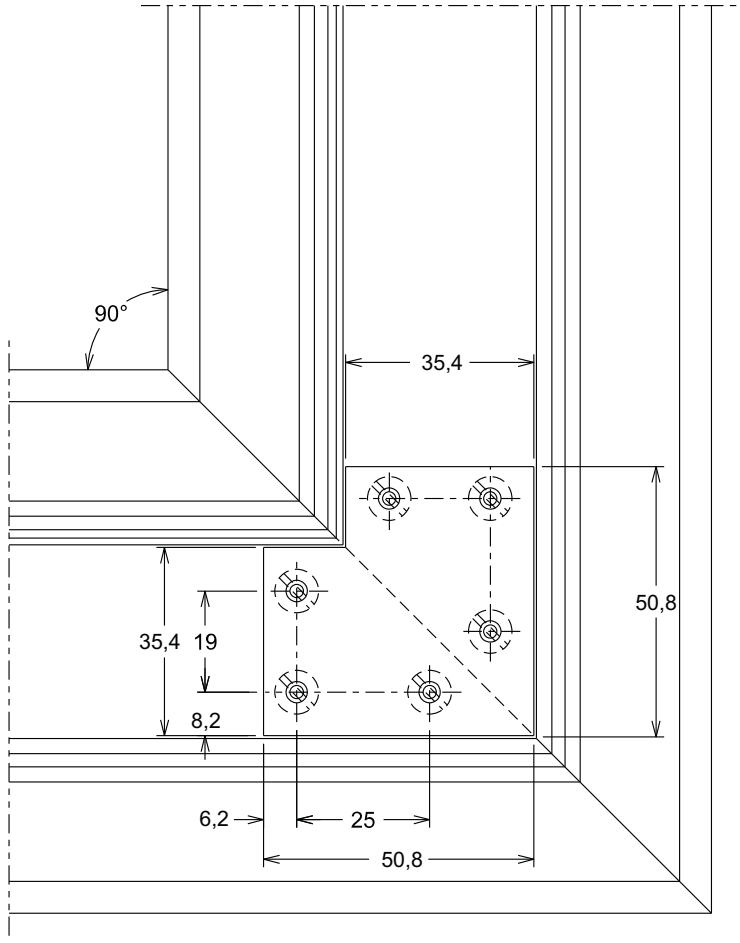
PU300
0,123 kg/m



JUNÇÃO 90° PARA PERFIL LG125 (PORTA)



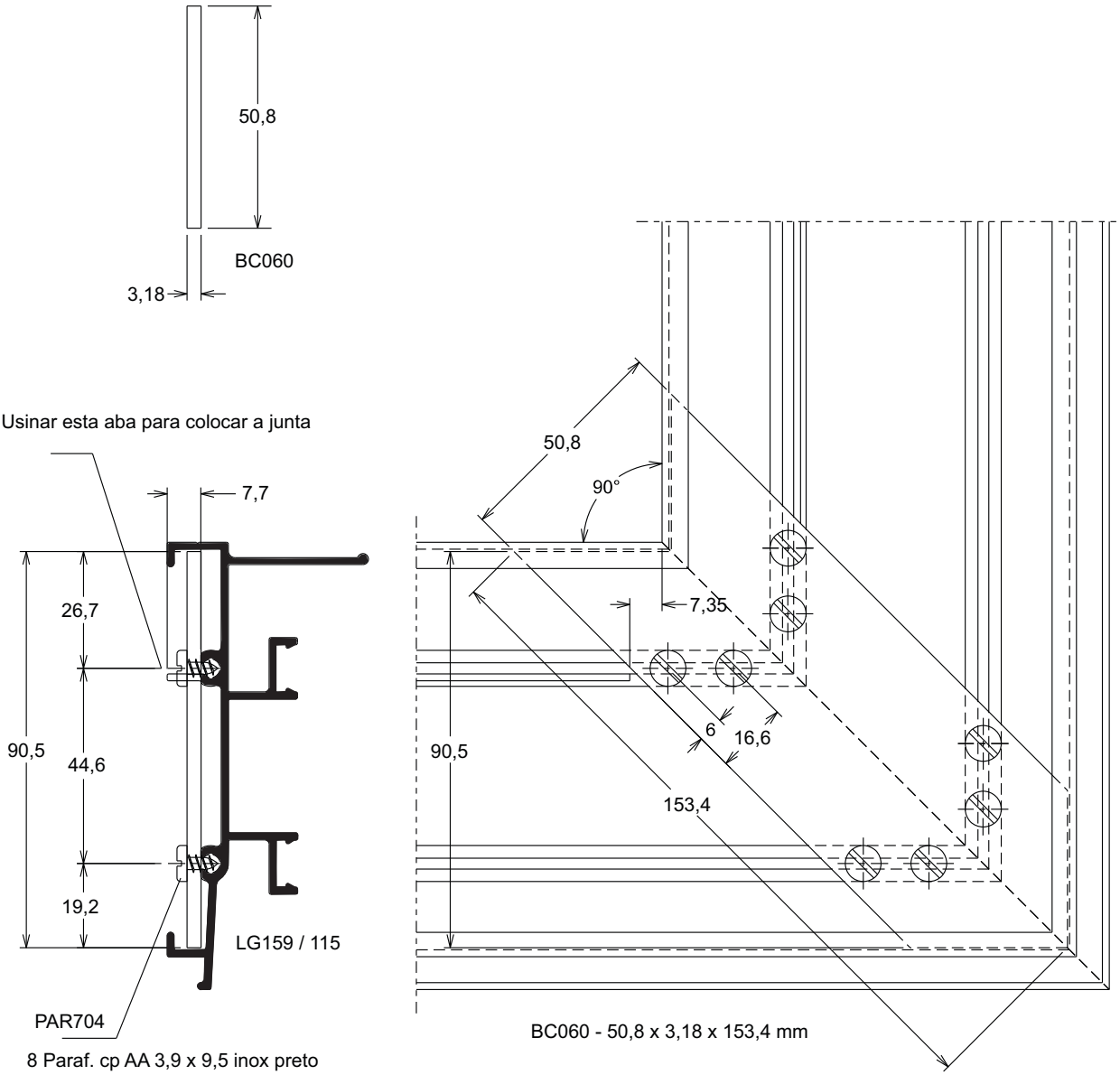




BC060 - 50,8 x 3,18 x 50,8 mm

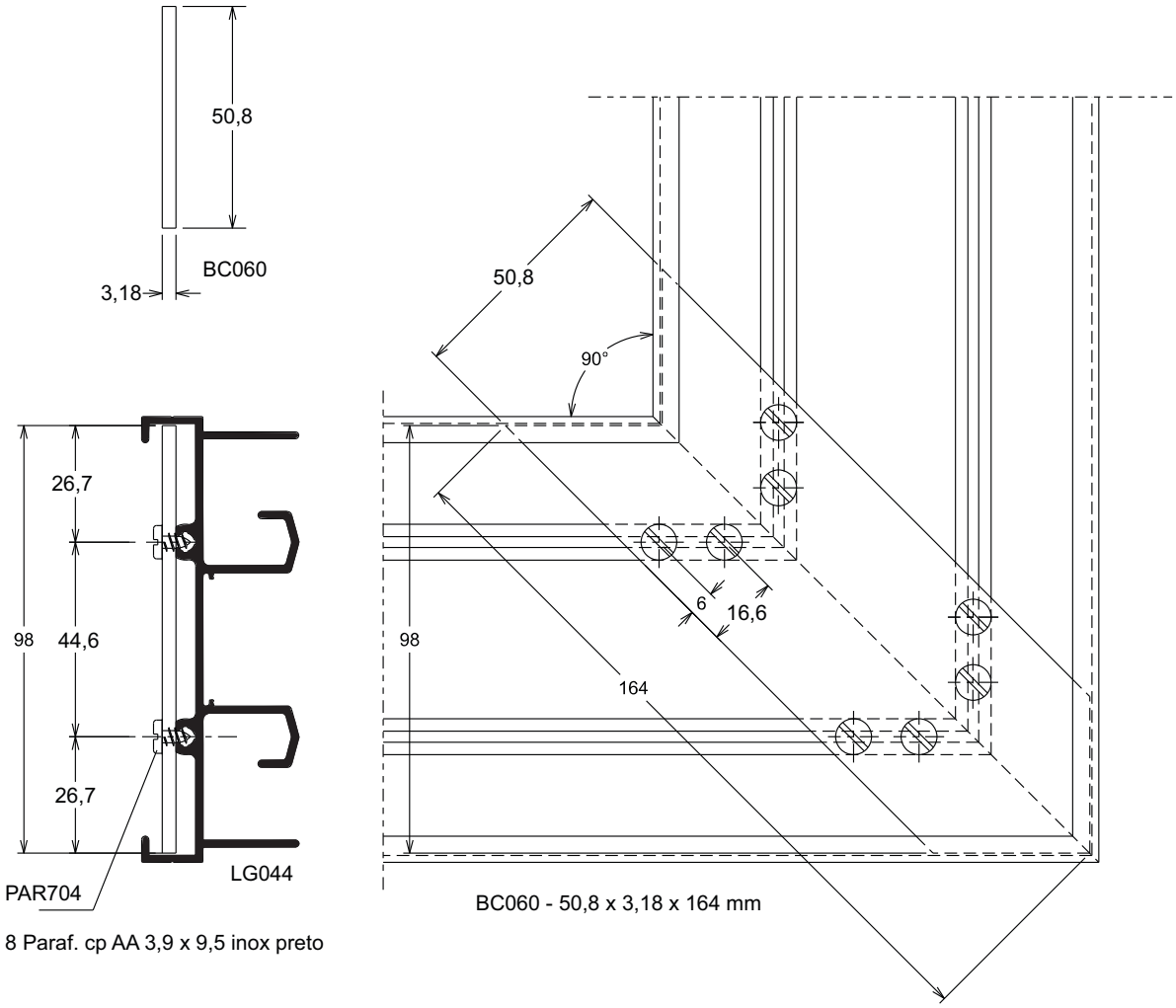
Observação: Colocar silicone antes de unir os perfis

JUNÇÃO 90° PARA PERFIL LG115 / 159 (JANELA)



Observação: Colocar silicone antes de unir os perfis

JUNÇÃO 90° PARA PERFIL LG044 (JANELA E PORTA)

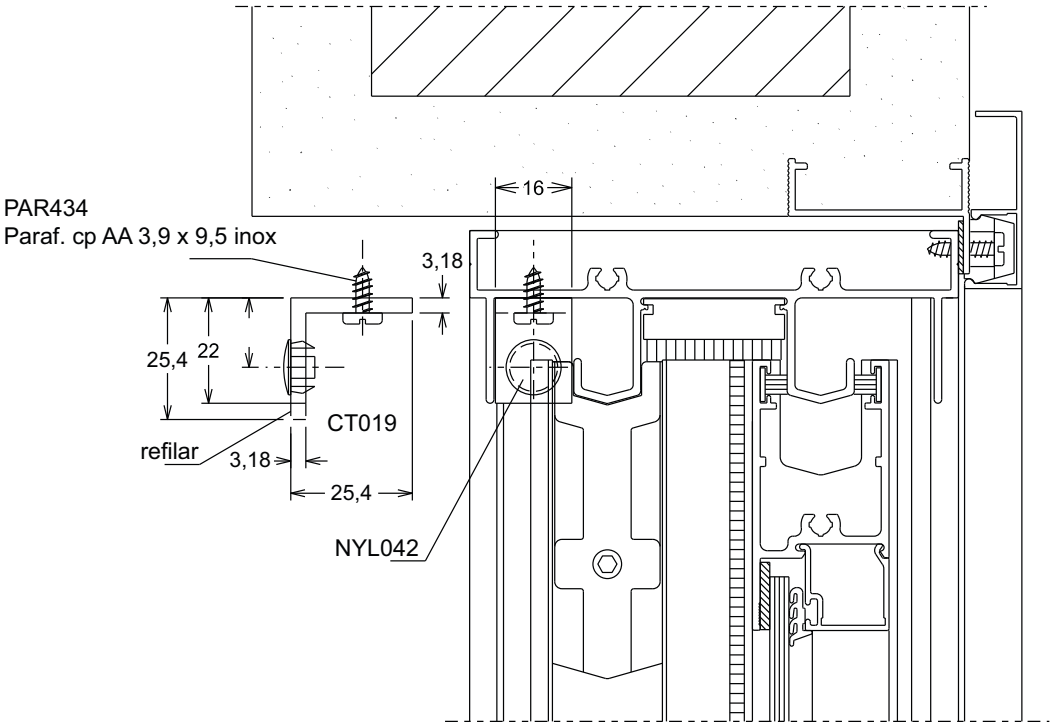


8 Paraf. cp AA 3,9 x 9,5 inox preto

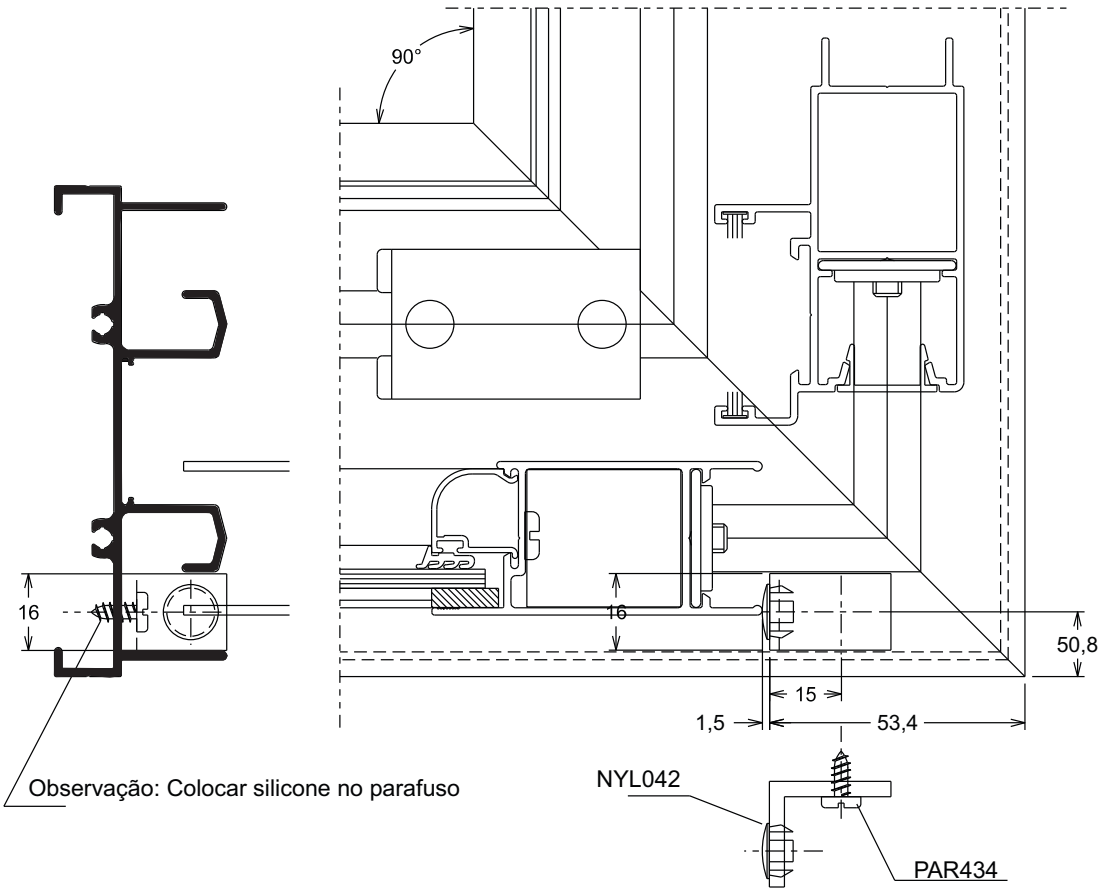
BC060 - 50,8 x 3,18 x 164 mm

Observação: Colocar silicone antes de unir os perfis

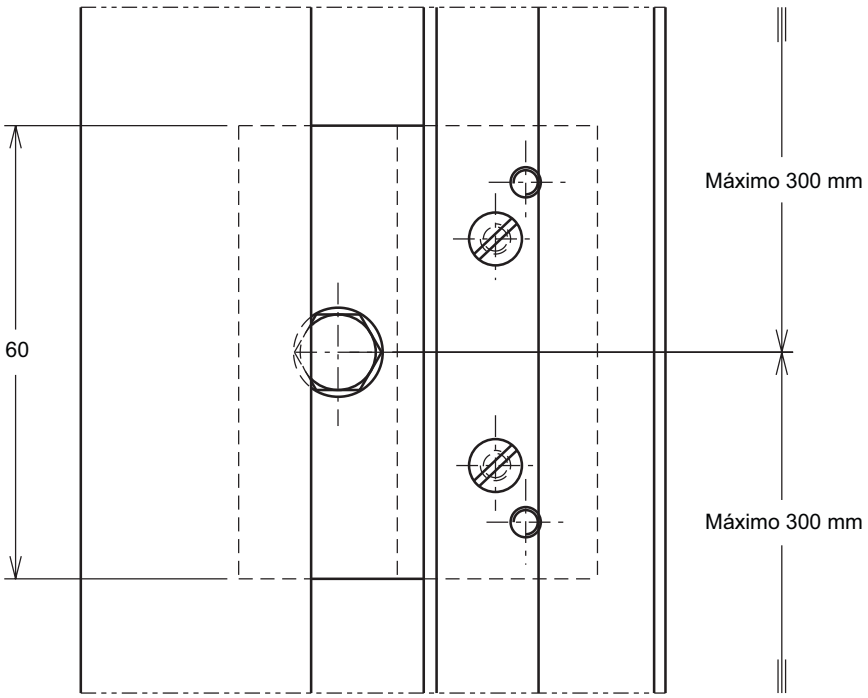
BATEDEIRA

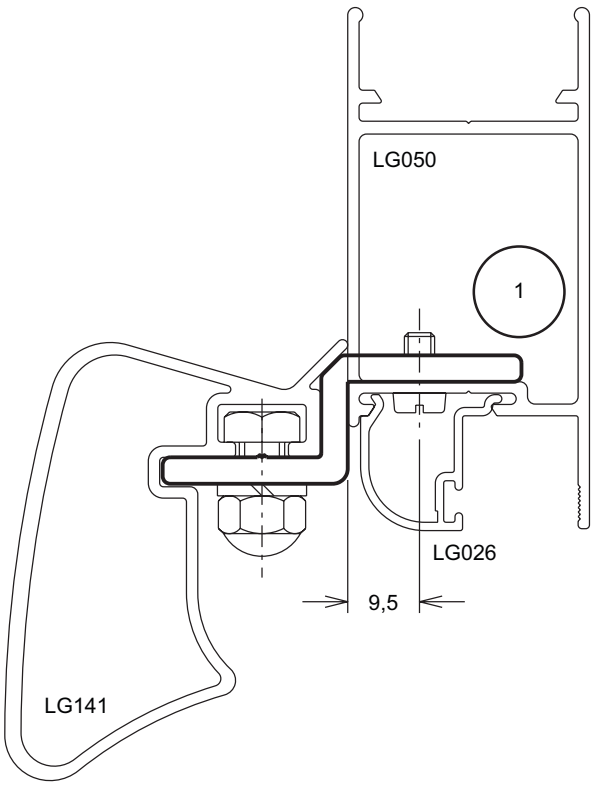


POSICIONAMENTO DA BATEDEIRA

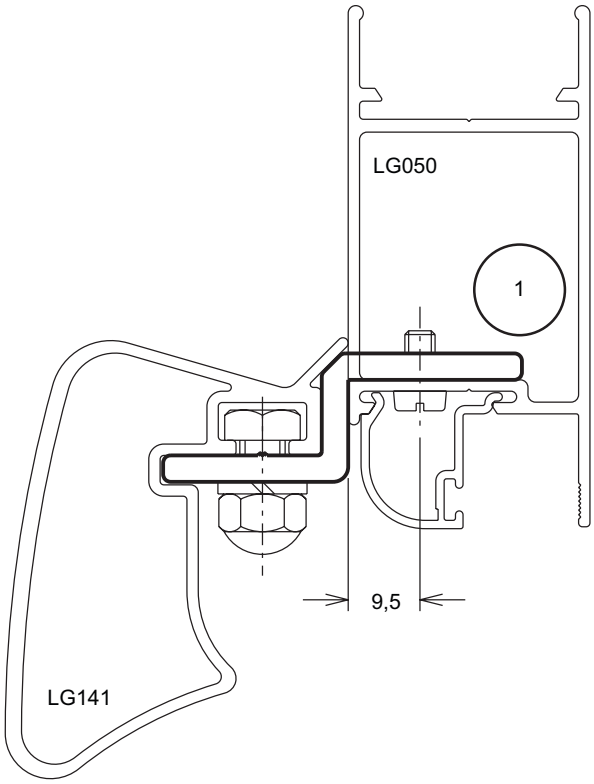


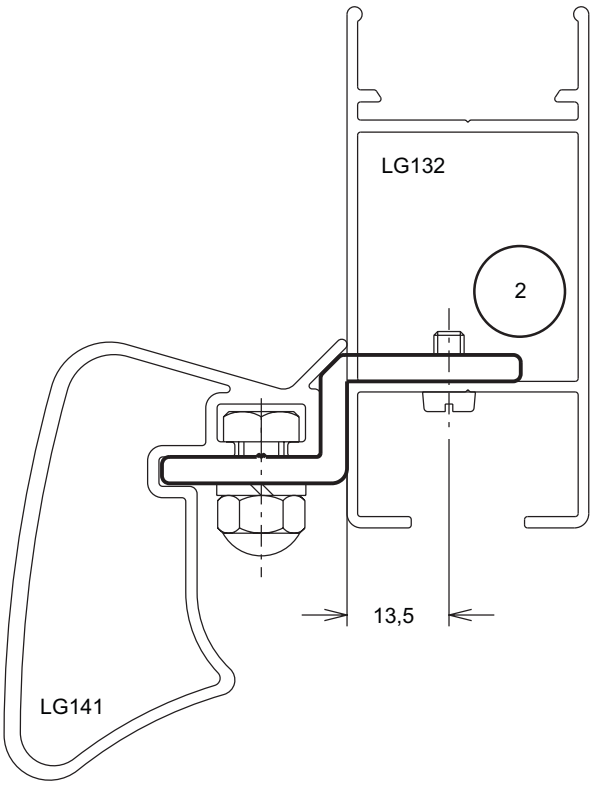
INSTRUÇÕES PARA UNIR REFORÇO LG141 NOS MONTANTES DAS FOLHAS

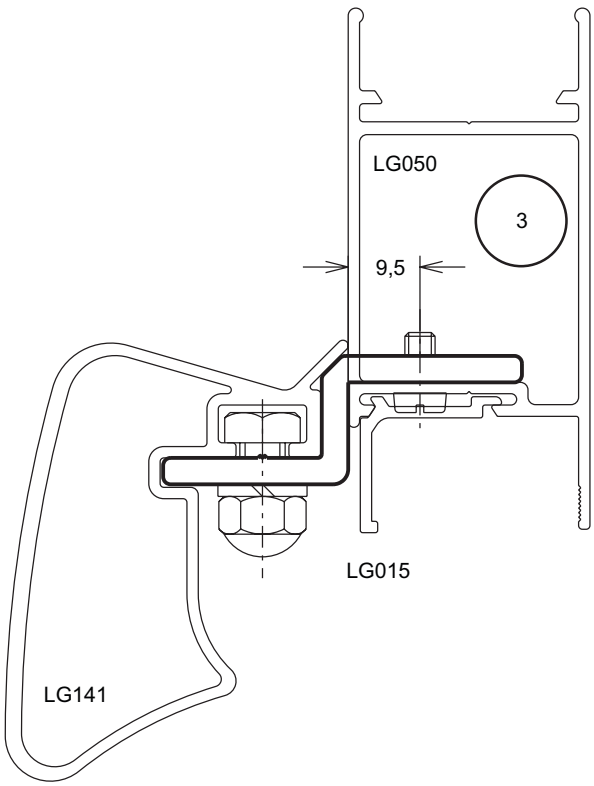


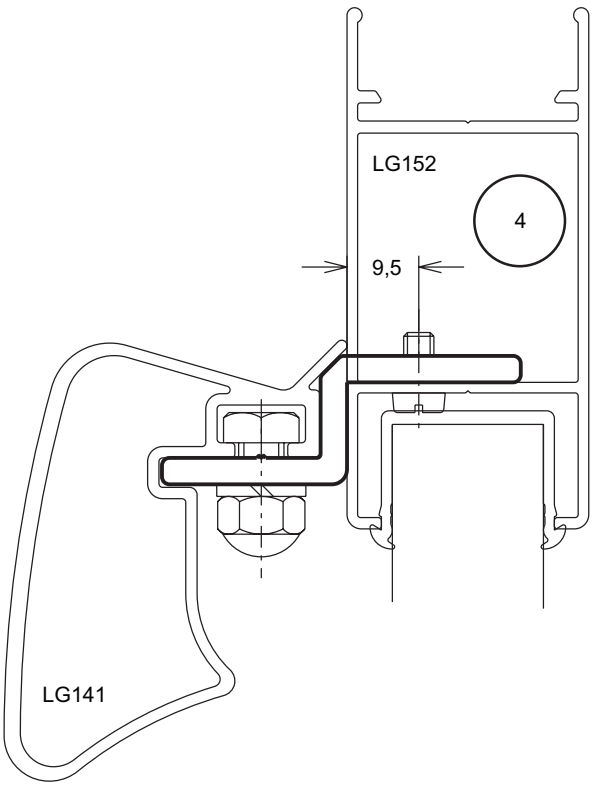


INSTRUÇÕES PARA UNIR REFORÇO LG141 NOS MONTANTES DAS FOLHAS



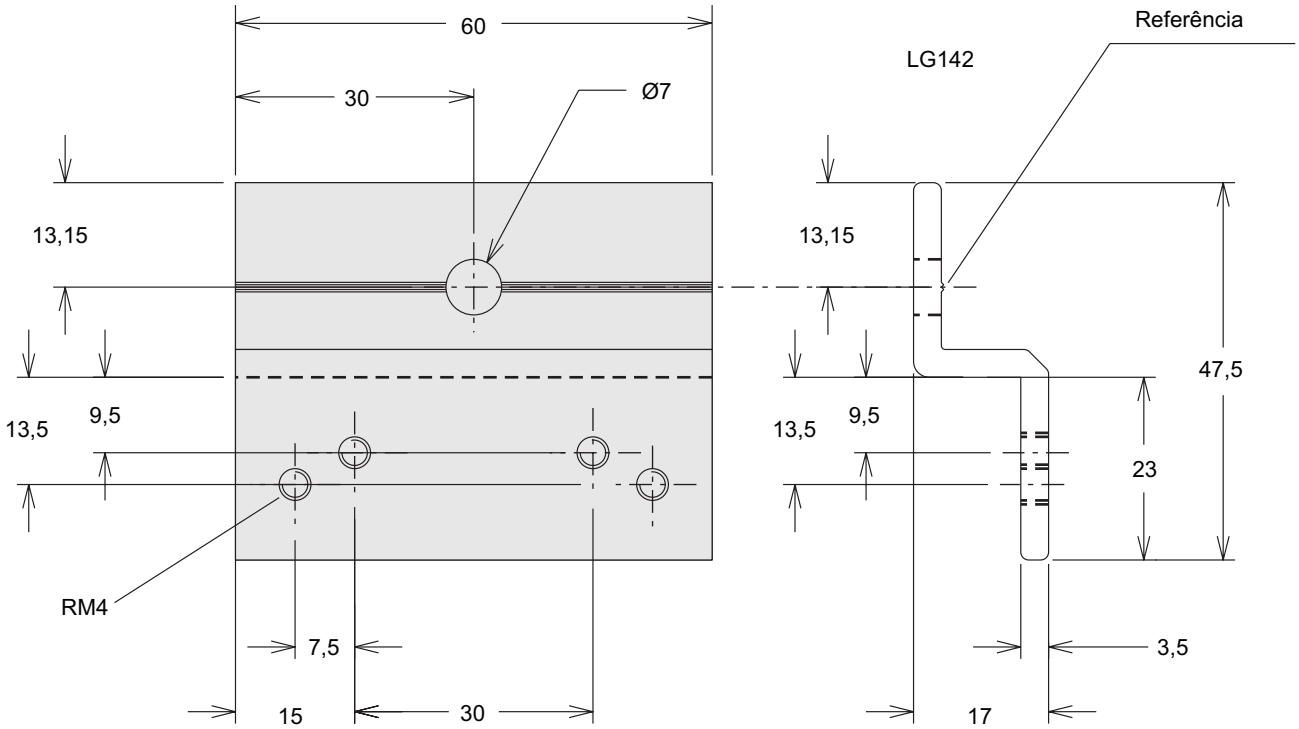






Observação: Casos 3 e 4 o cliente deverá mudar o parafuso para cx M6 x 8

INSTRUÇÕES PARA UNIR REFORÇO LG141 NOS MONTANTES DAS FOLHAS



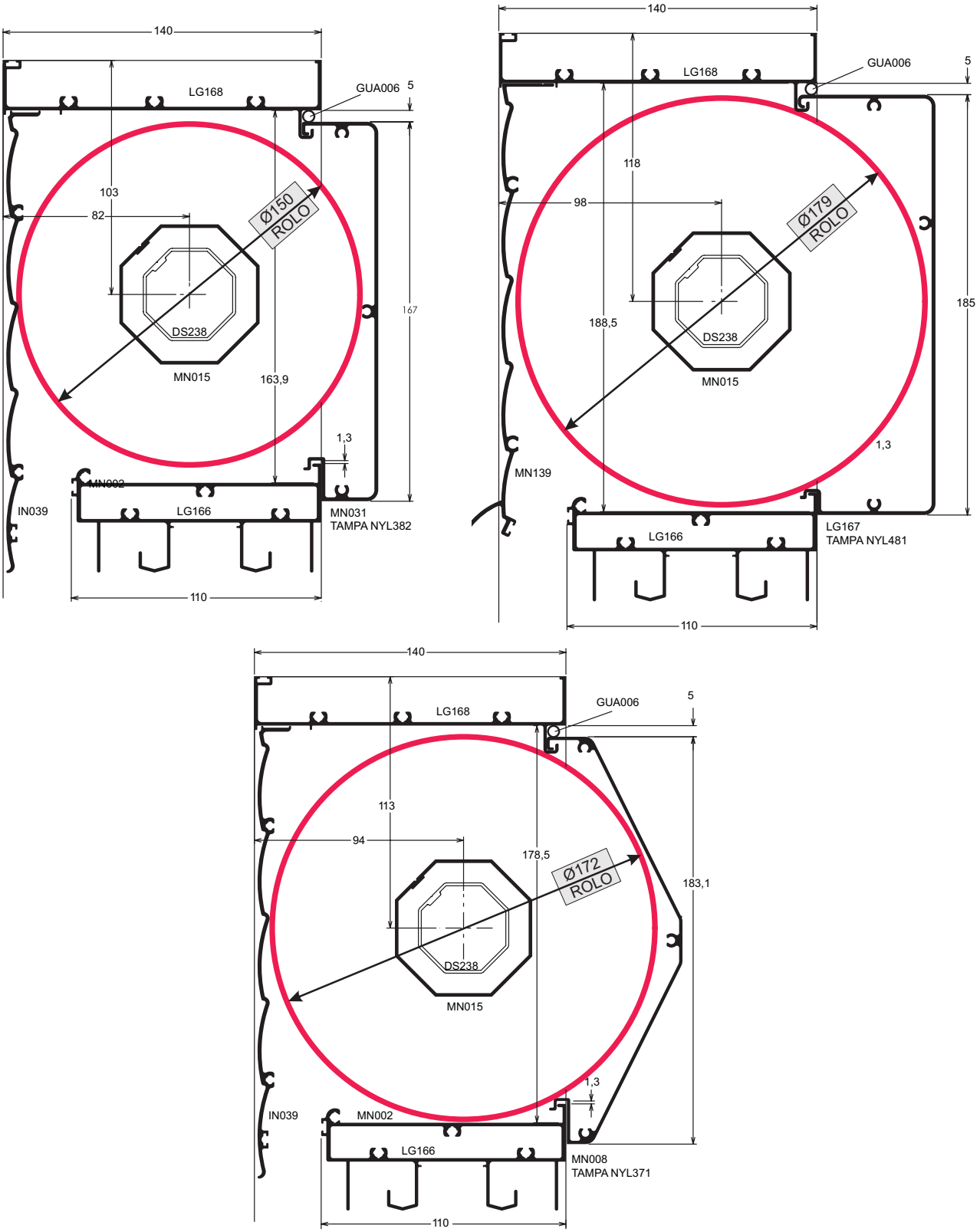
Tamanho Natural

Perfil: LG142
Acabamento: Cor Preta

Componentes por unidade
1 Parafuso cabeça sextavada M6 x 10 Aço Inox 1 Porca sextavada cega M6 Aço Inox 1 Arruela de pressão M6 Aço Inox Itens acima teflonado cor preta ou similar
2 Parafusos cabeça panela M4 x 8 Aço Inox cor natural

União do perfil LG141 nos montantes centrais
Perfis LG050 / 051 / 152 / 153 / 132 / 133

DIÂMETRO MÁXIMO ÚTIL DO ROLO DAS PERSIANAS

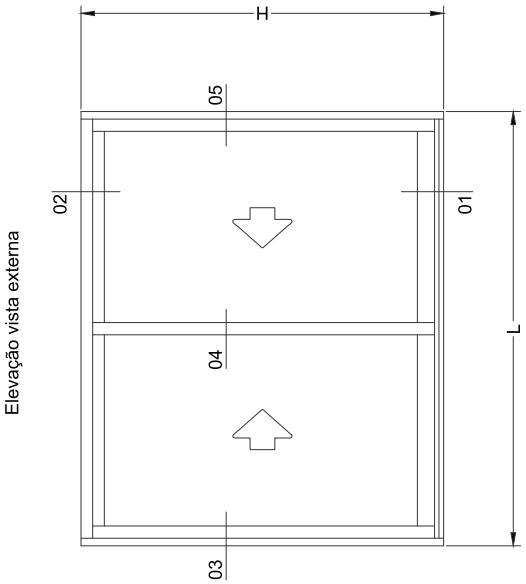


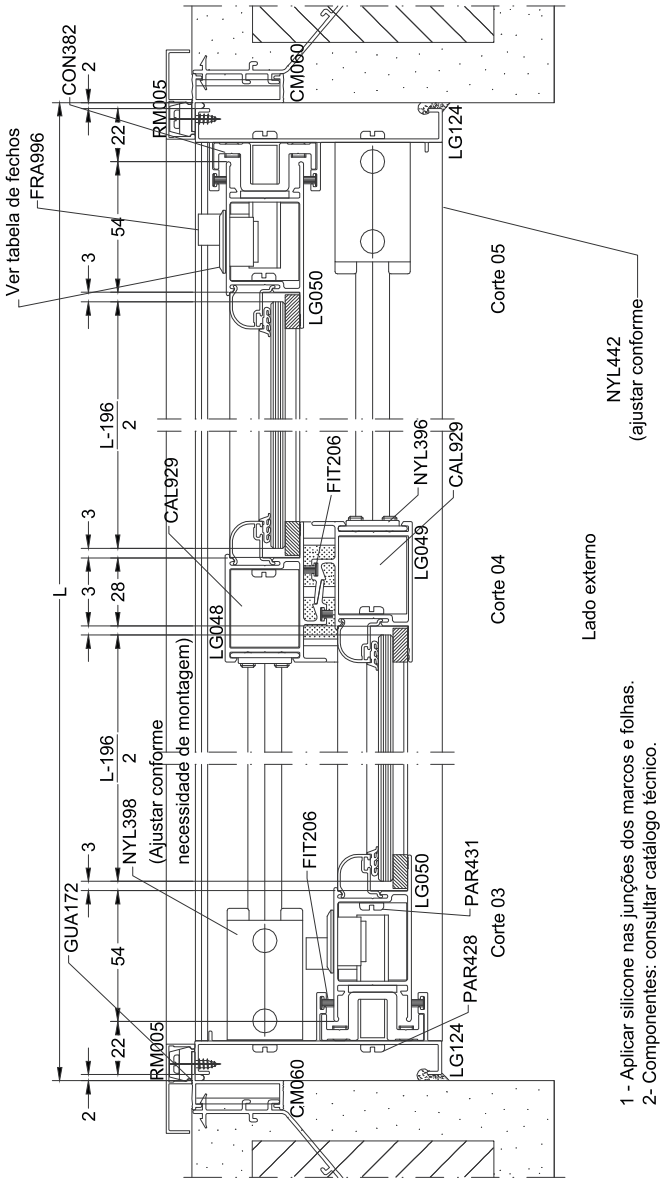
Observações:

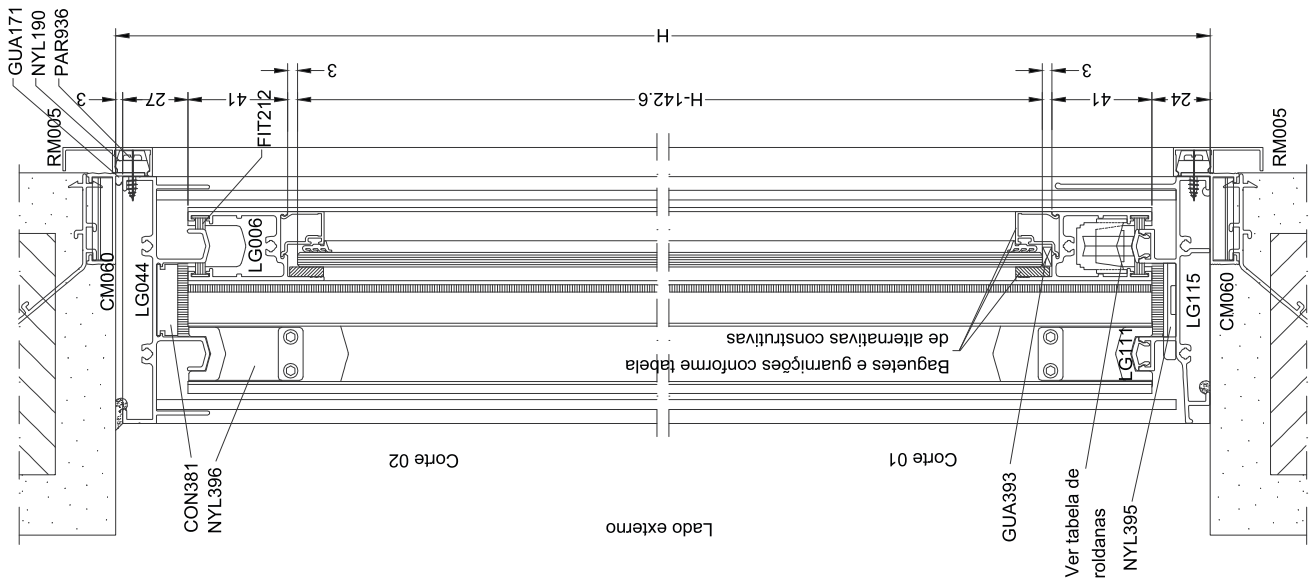
1) Não considerar revestimento termoacústico nas partes internas da caixa que reduzem o diâmetro útil do rolo.
2) Os eixos dos oitavados estão centralizados, mas para conseguir melhor performance, fazer protótipo, pois devido à acomodação das persianas, ocorre pequeno deslocamento do eixo.
3) Consultar fornecedor das persianas para saber qual altura e largura que o produto atinge em relação ao diâmetro consultado.
4) Lembrar que o limite da largura máxima é 1800 mm.

Desenhos de Montagem

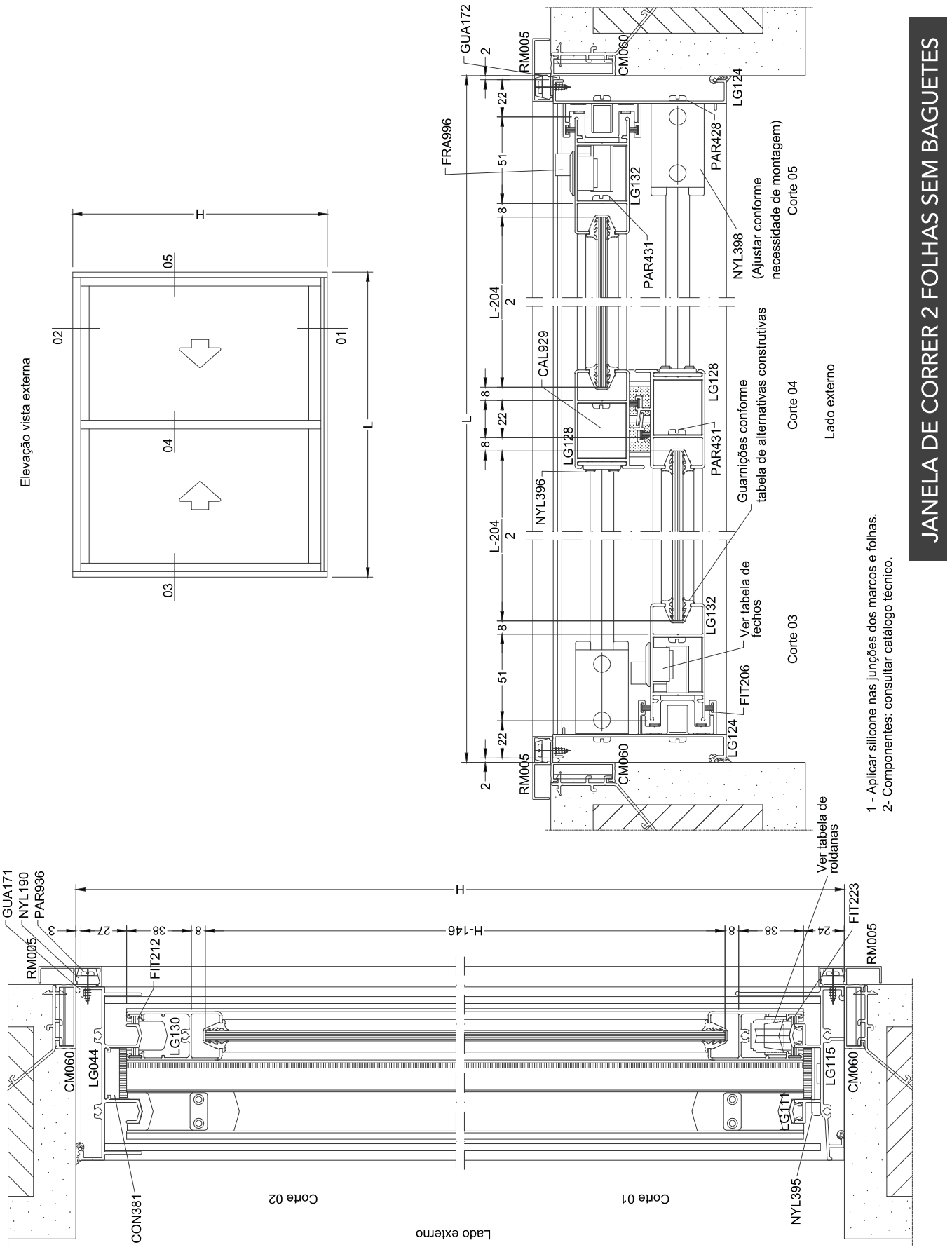
JANELA DE CORRER 2 FOLHAS COM BAGUETES



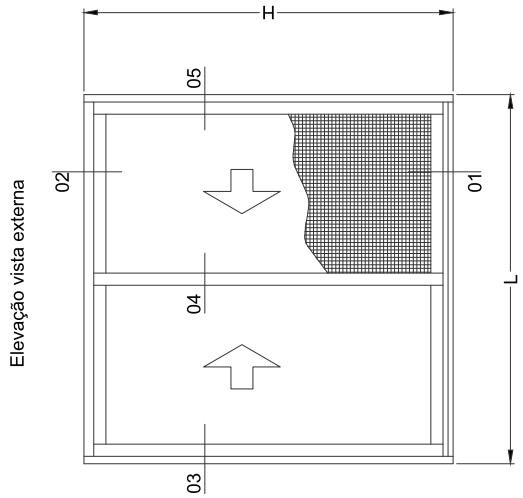




JANELA DE CORRER 2 FOLHAS SEM BAGUETES

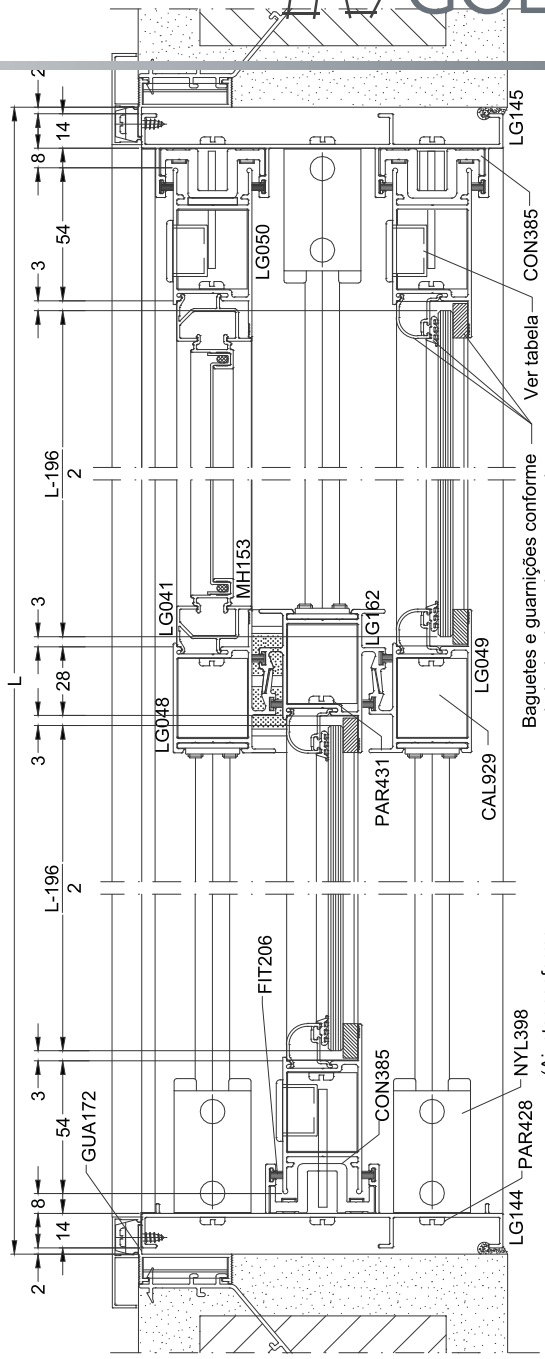


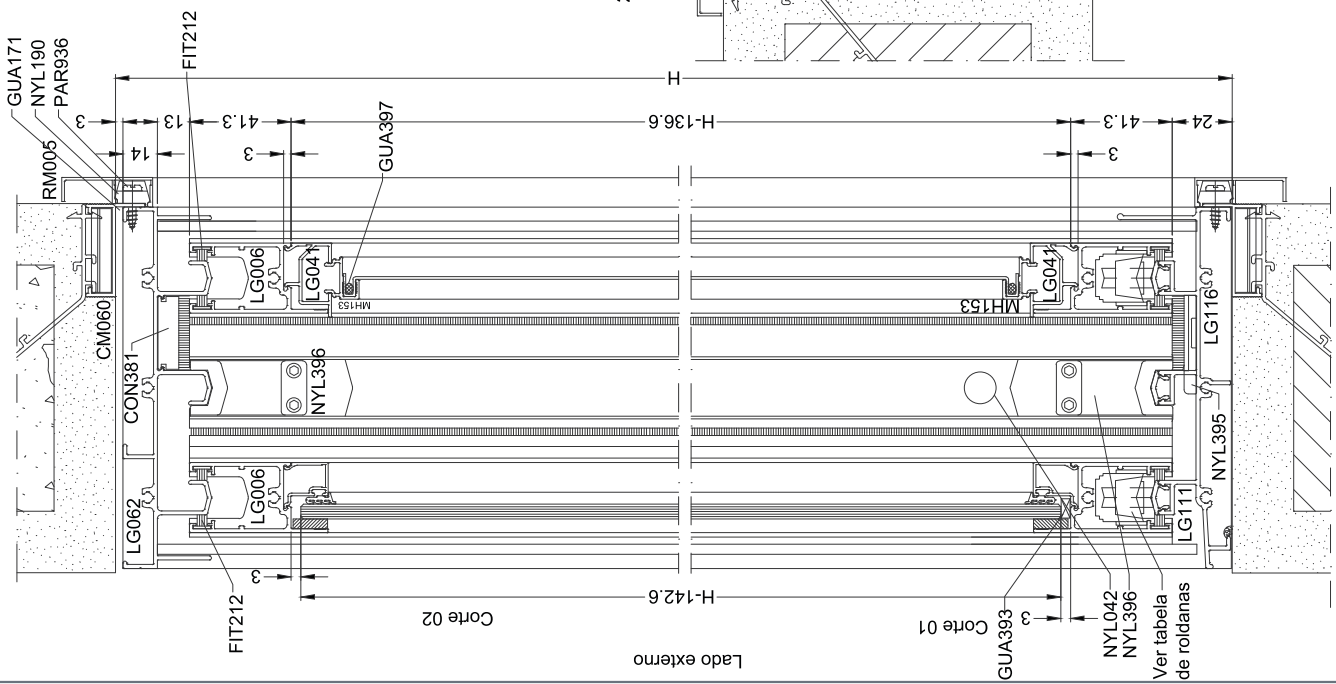
JANELA DE CORRER 3 FOLHAS COM BAGUETES E TELA MOSQUITEIRA



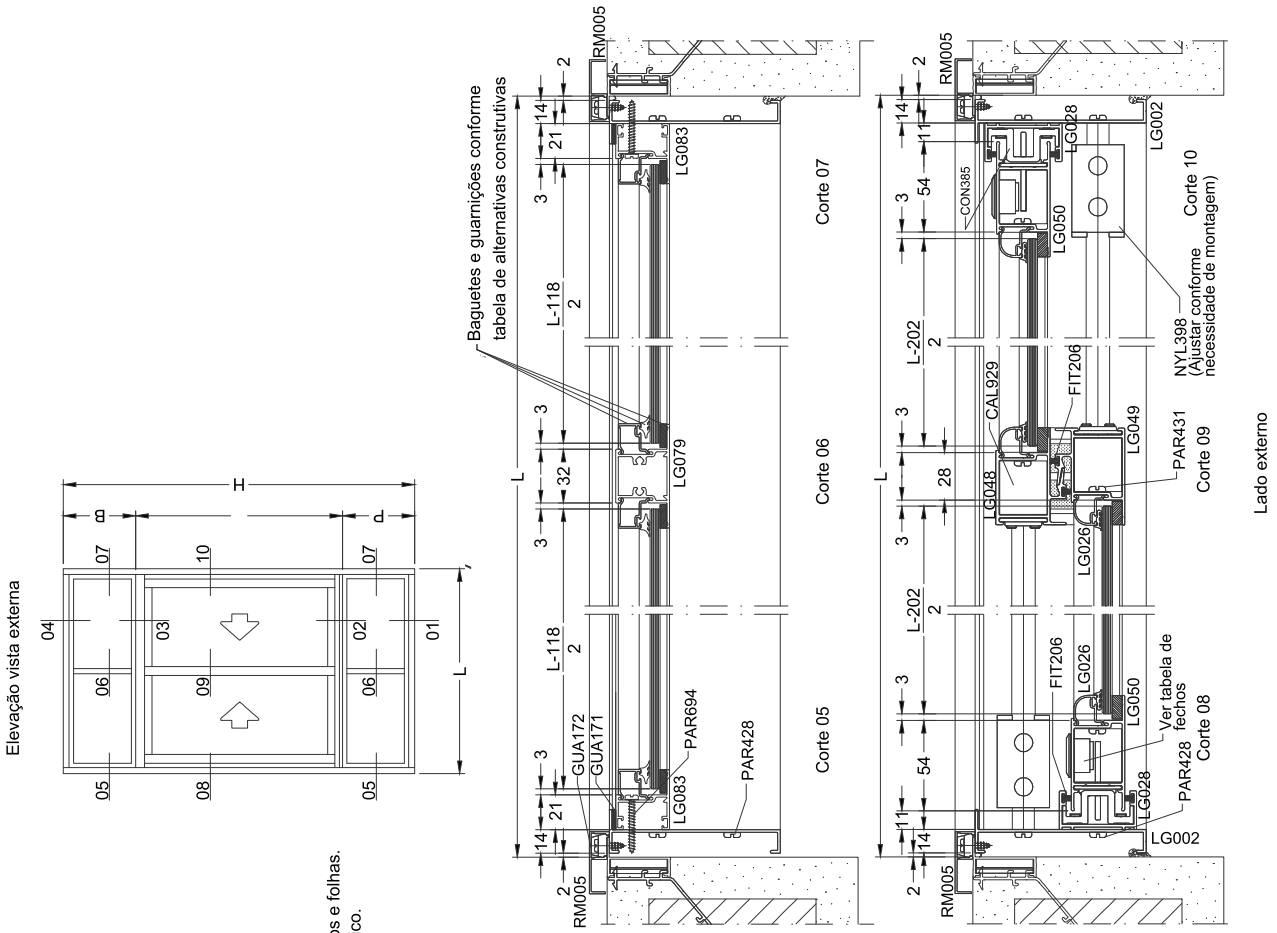
Elevação vista externa

1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

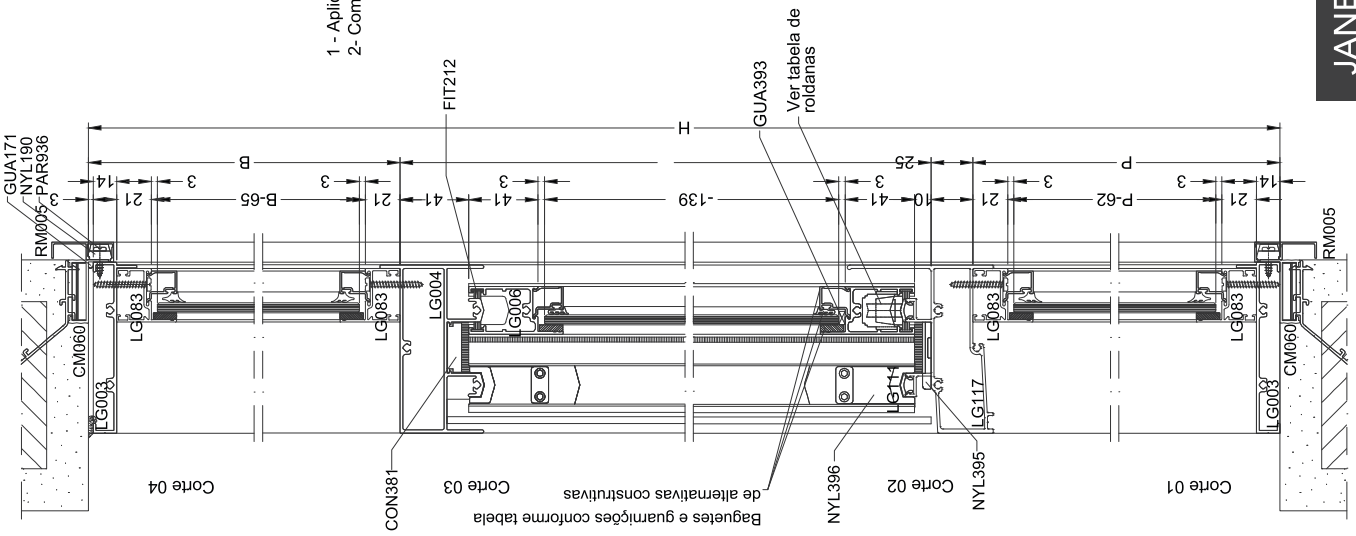




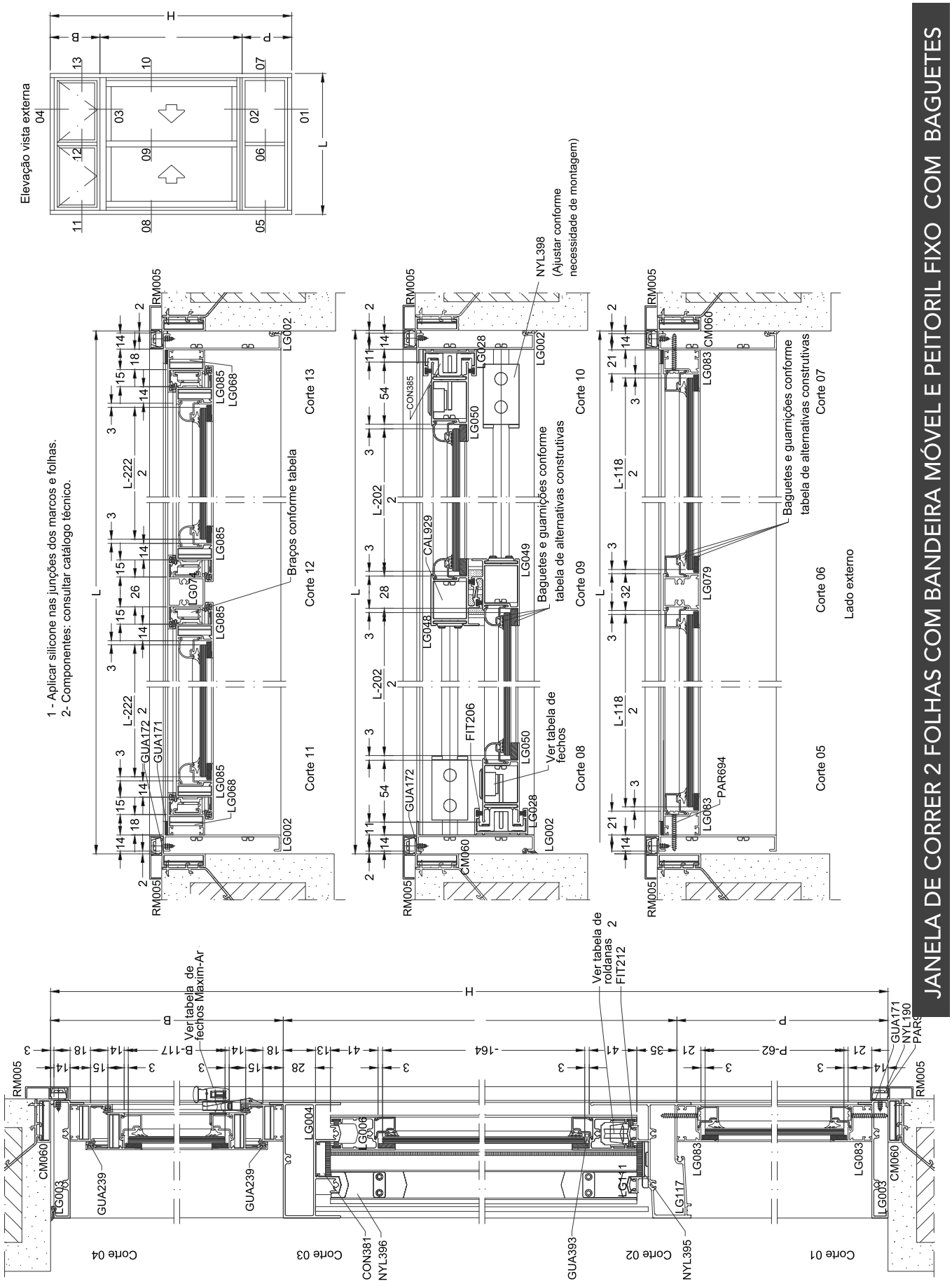
JANELA DE CORRER 2 FOLHAS COM BANDEIRA E PEITORIL FIXOS COM BAGUETES



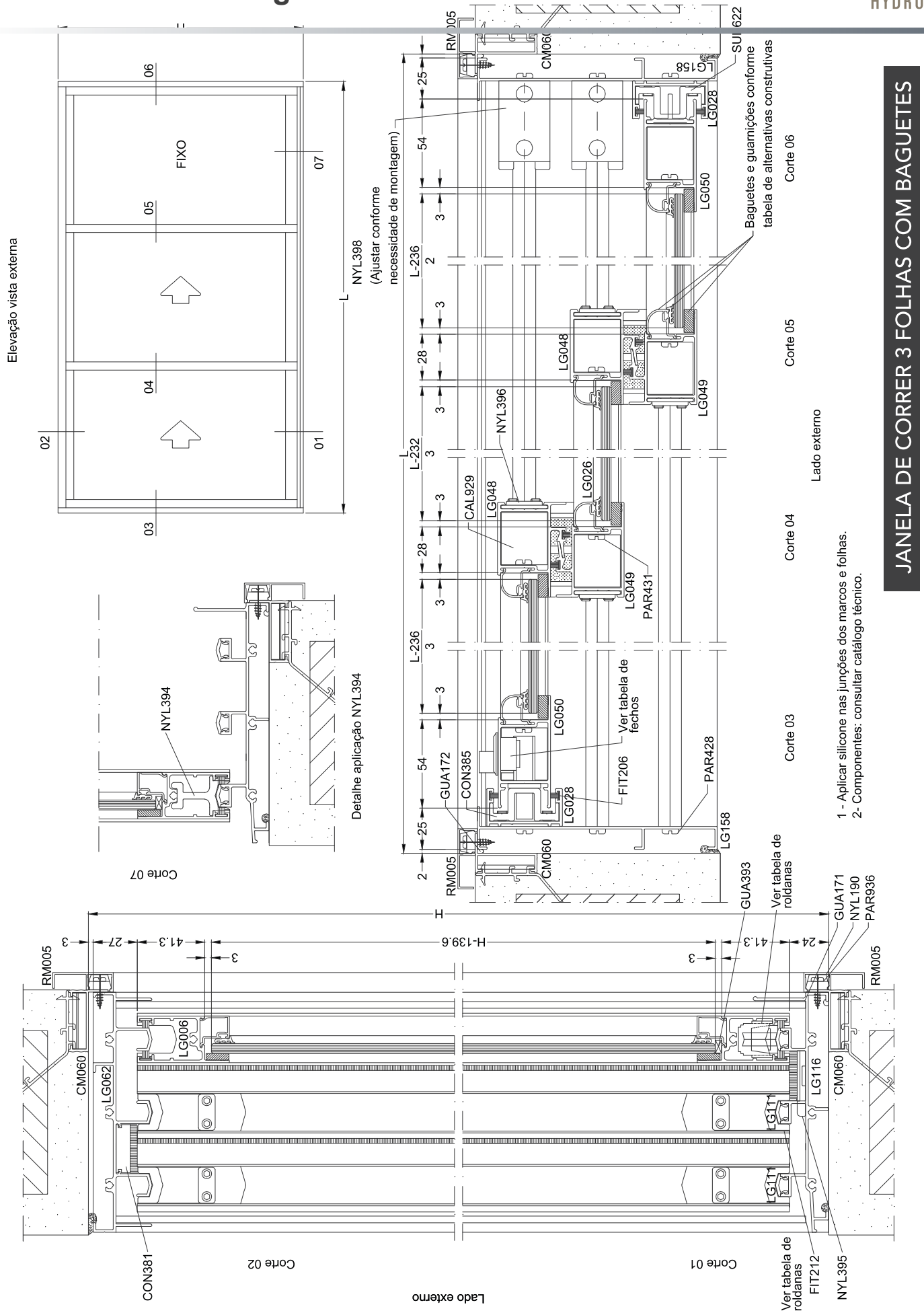
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.



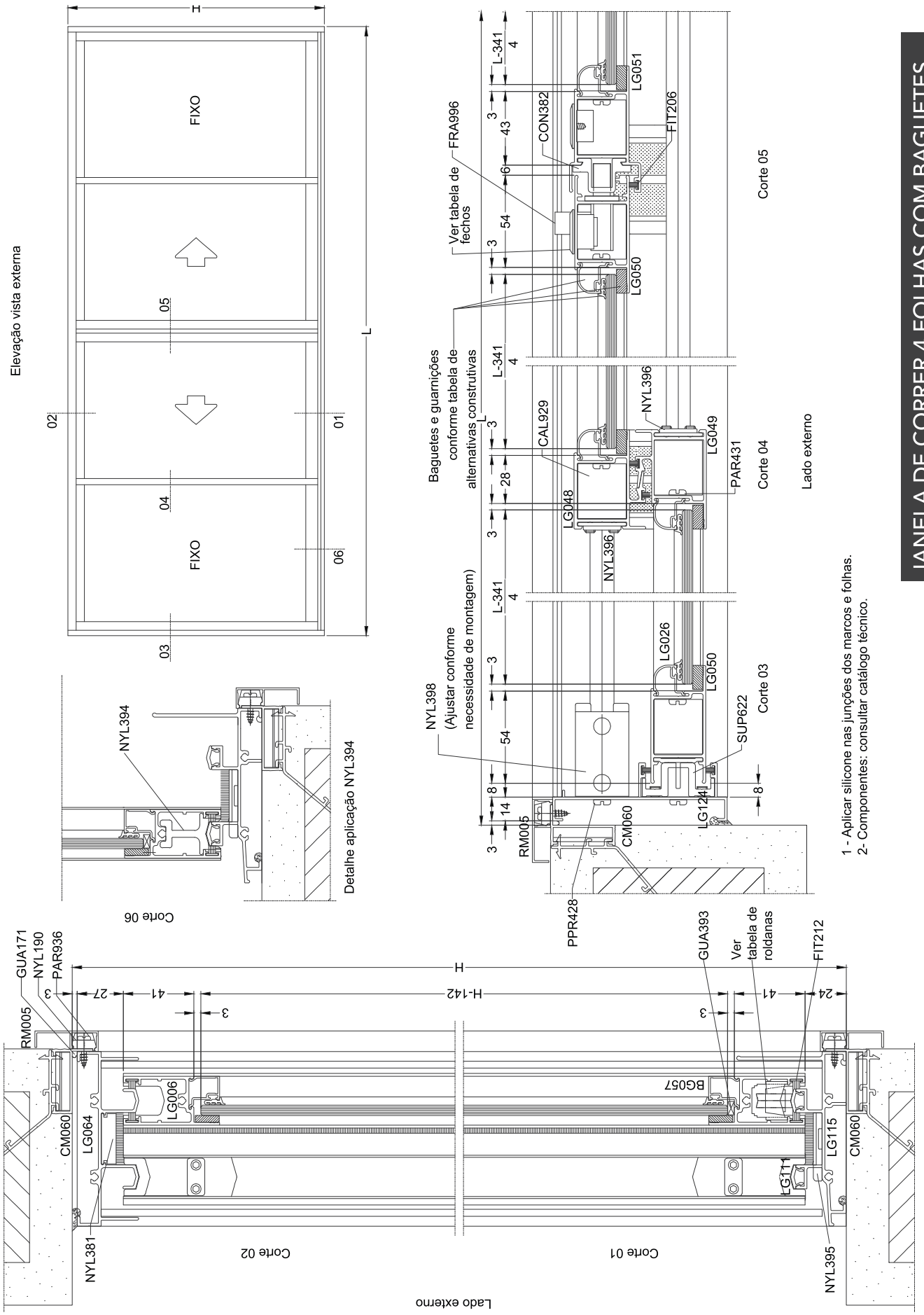
JANELA DE CORRER 2 FOLHAS COM BANDEIRA MÓVEL E PEITORIL FIXO COM BAGUETES



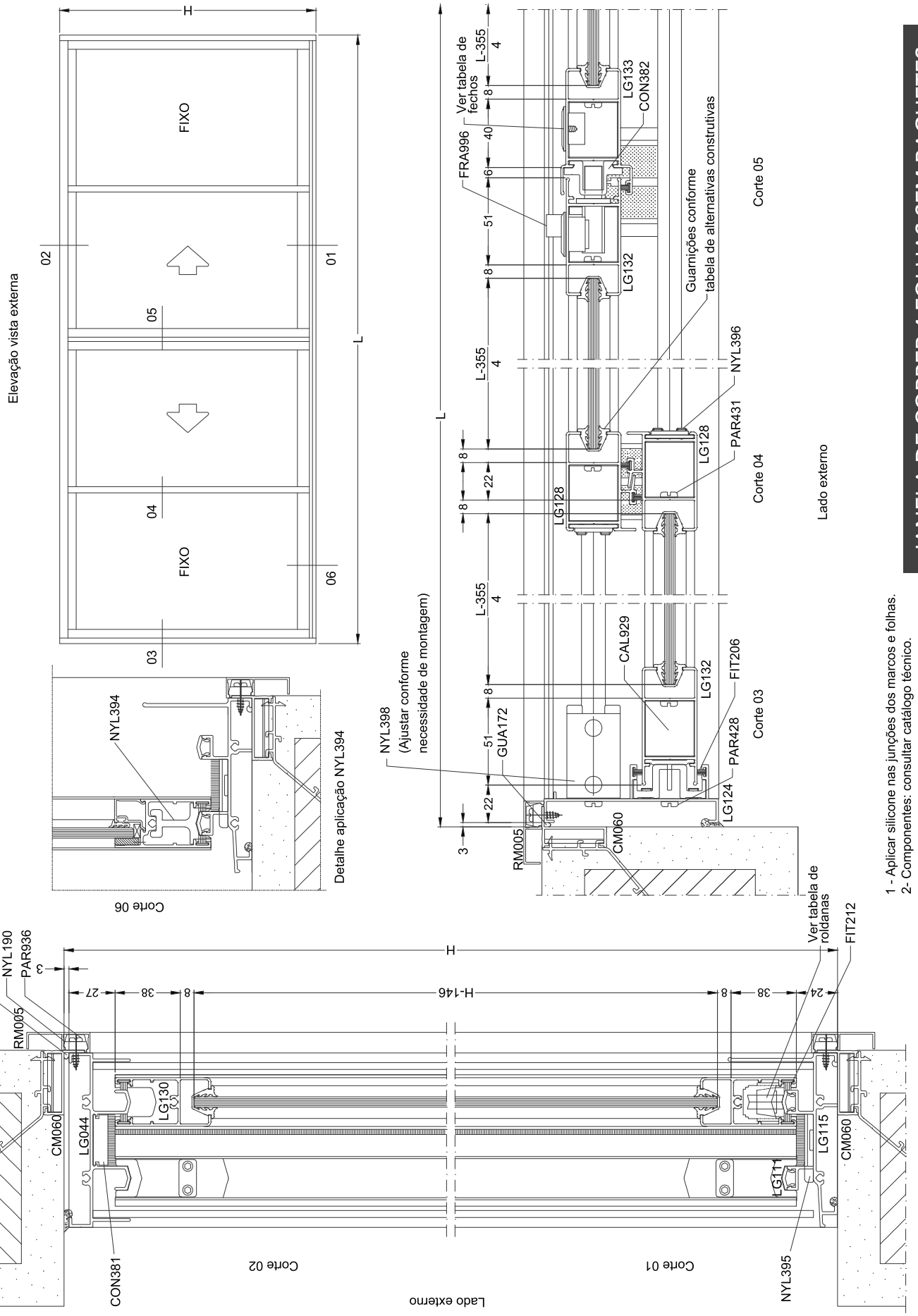
JANELA DE CORRER 3 FOLHAS COM BAGUETES



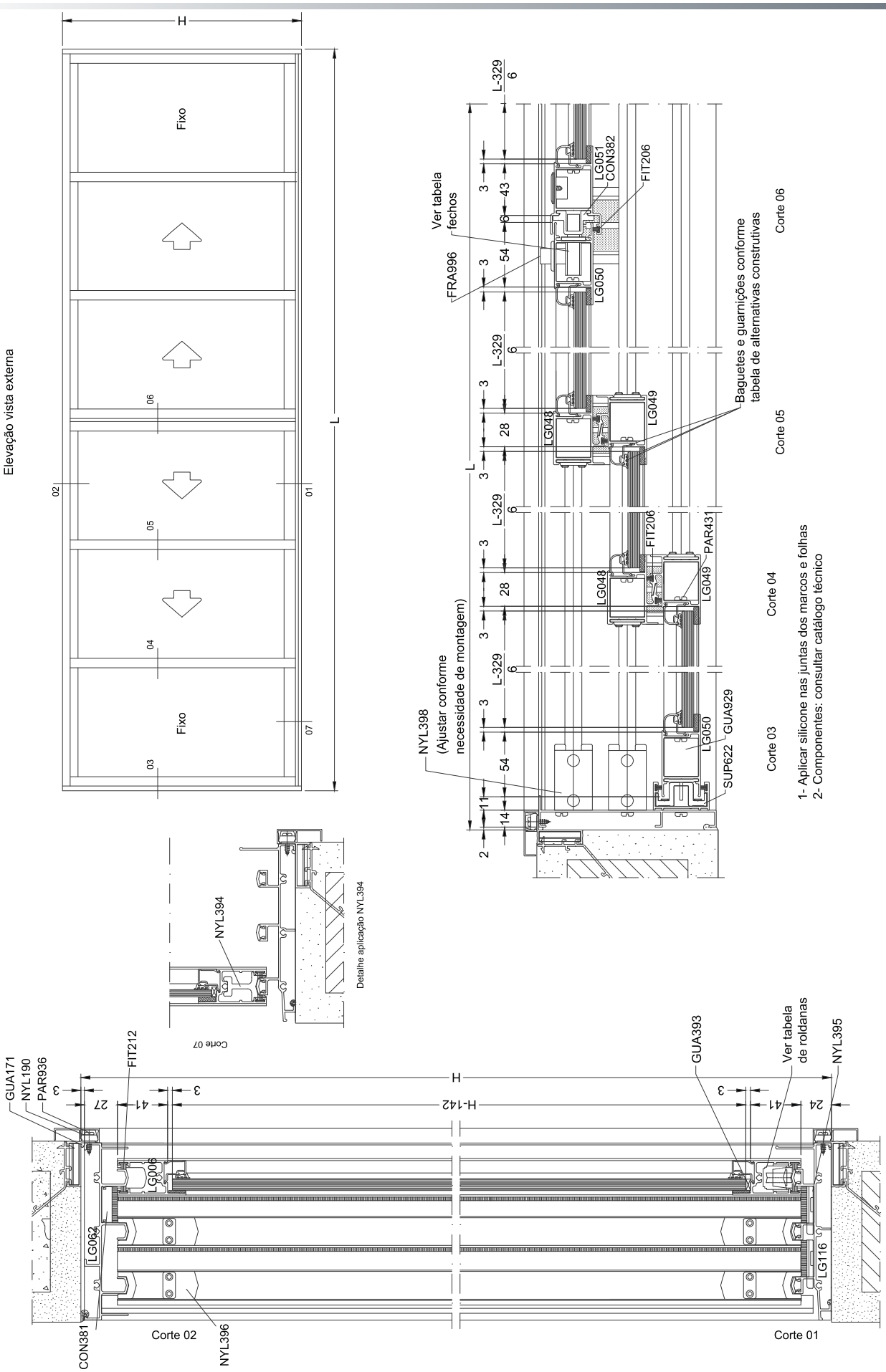
JANELA DE CORRER 4 FOLHAS COM BAGUETES



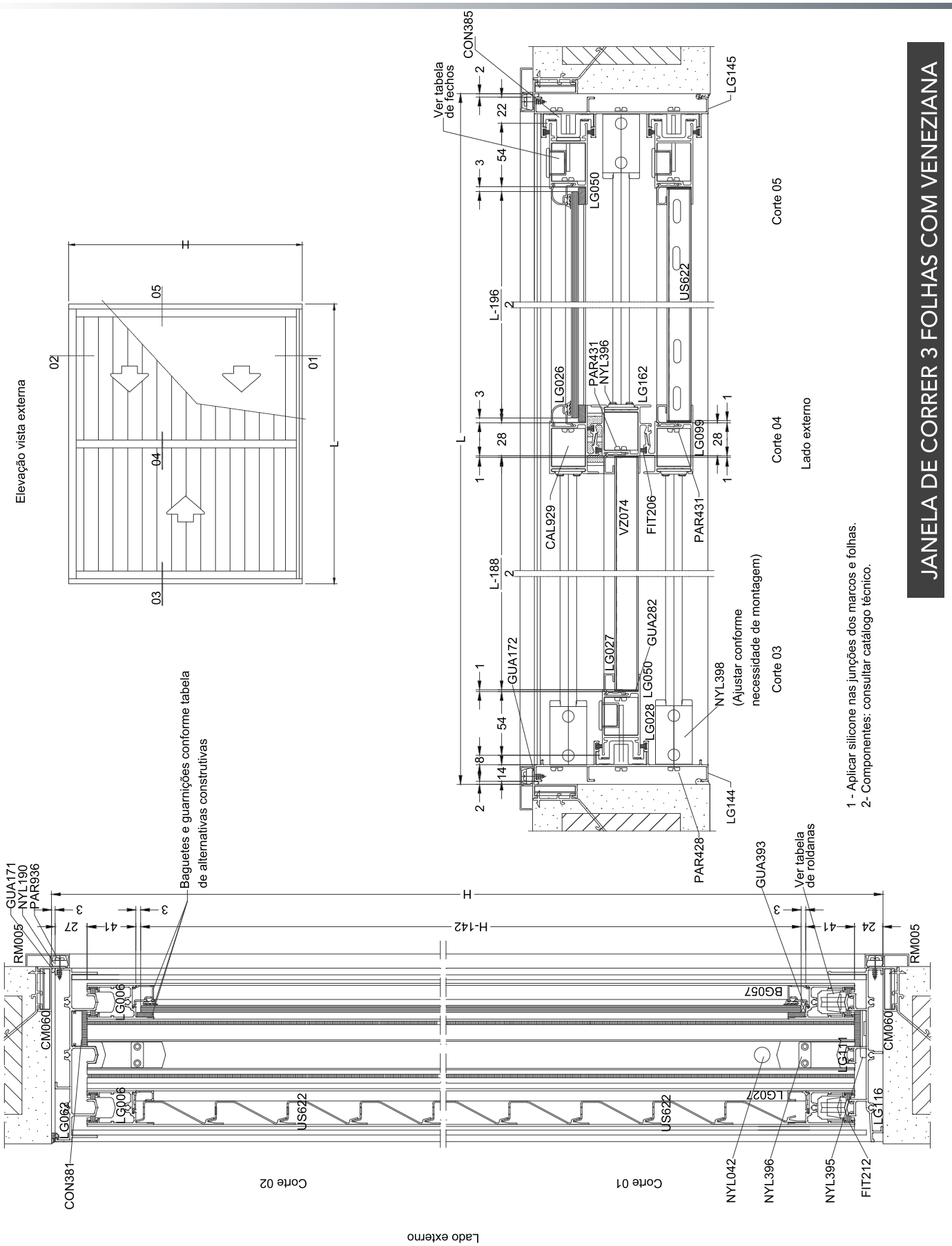
JANELA DE CORRER 4 FOLHAS SEM BAGUETES



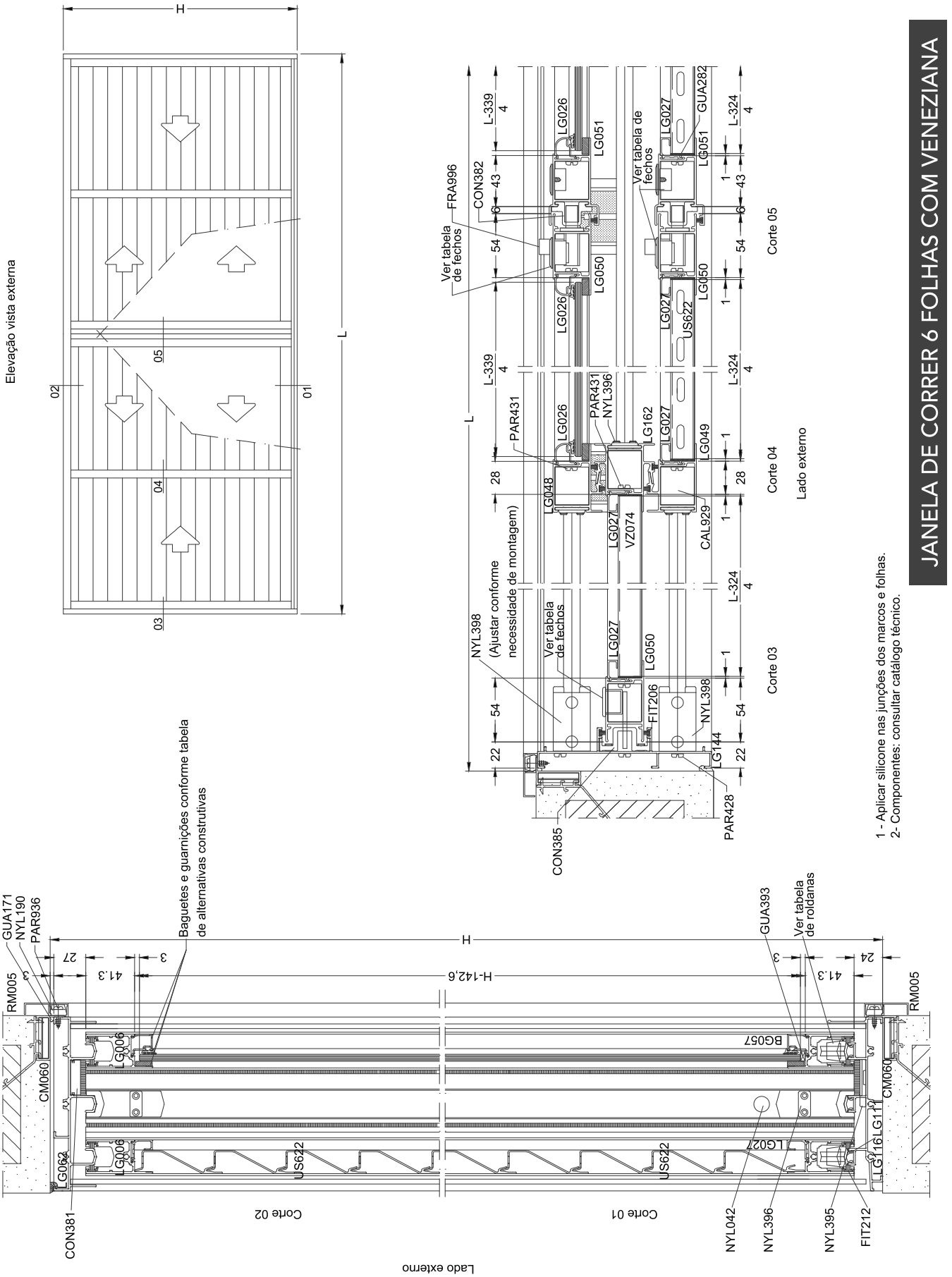
JANELA DE CORRER 6 FOLHAS COM BAGUETES



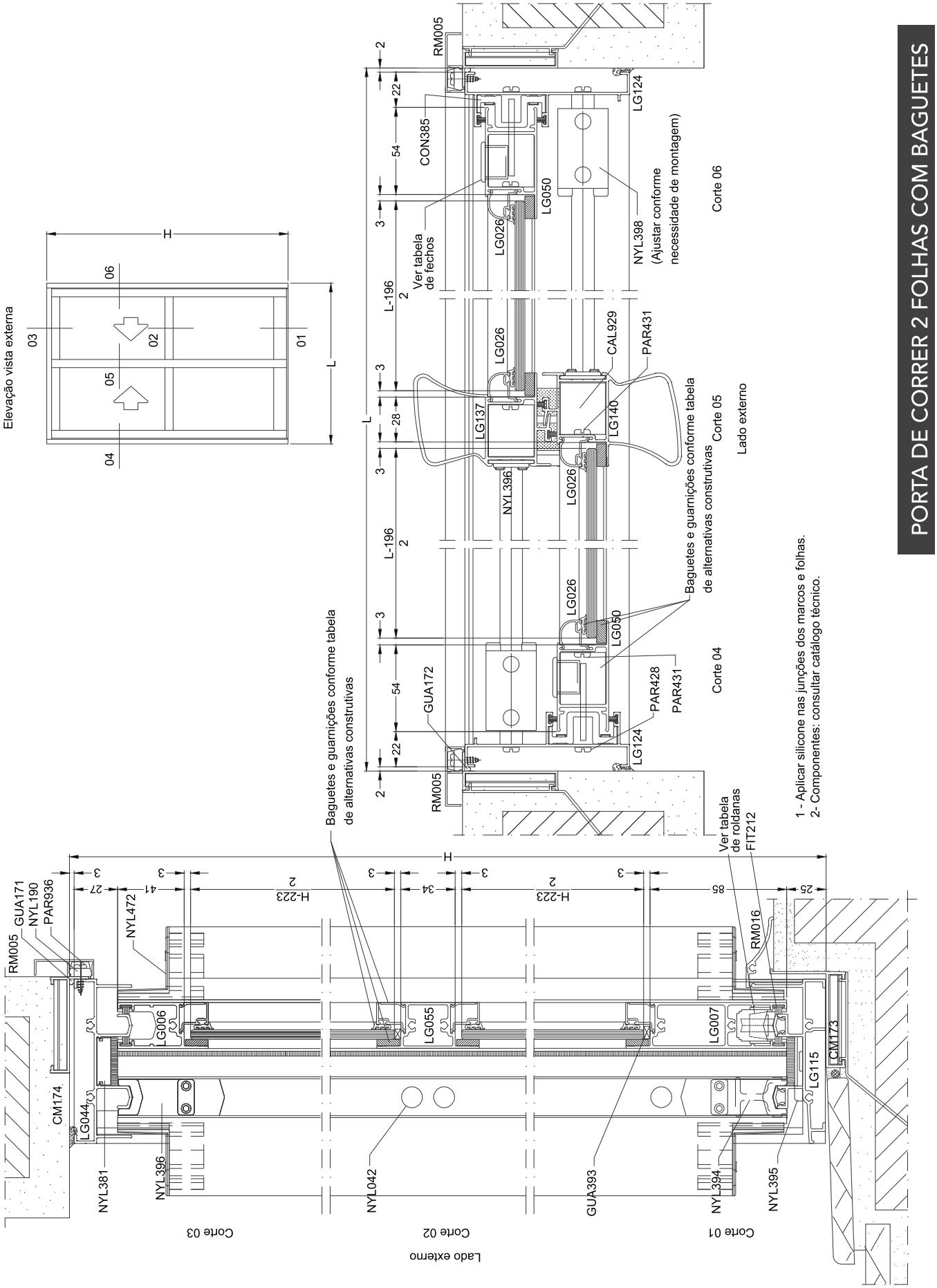
JANELA DE CORRER 3 FOLHAS COM VENEZIANA



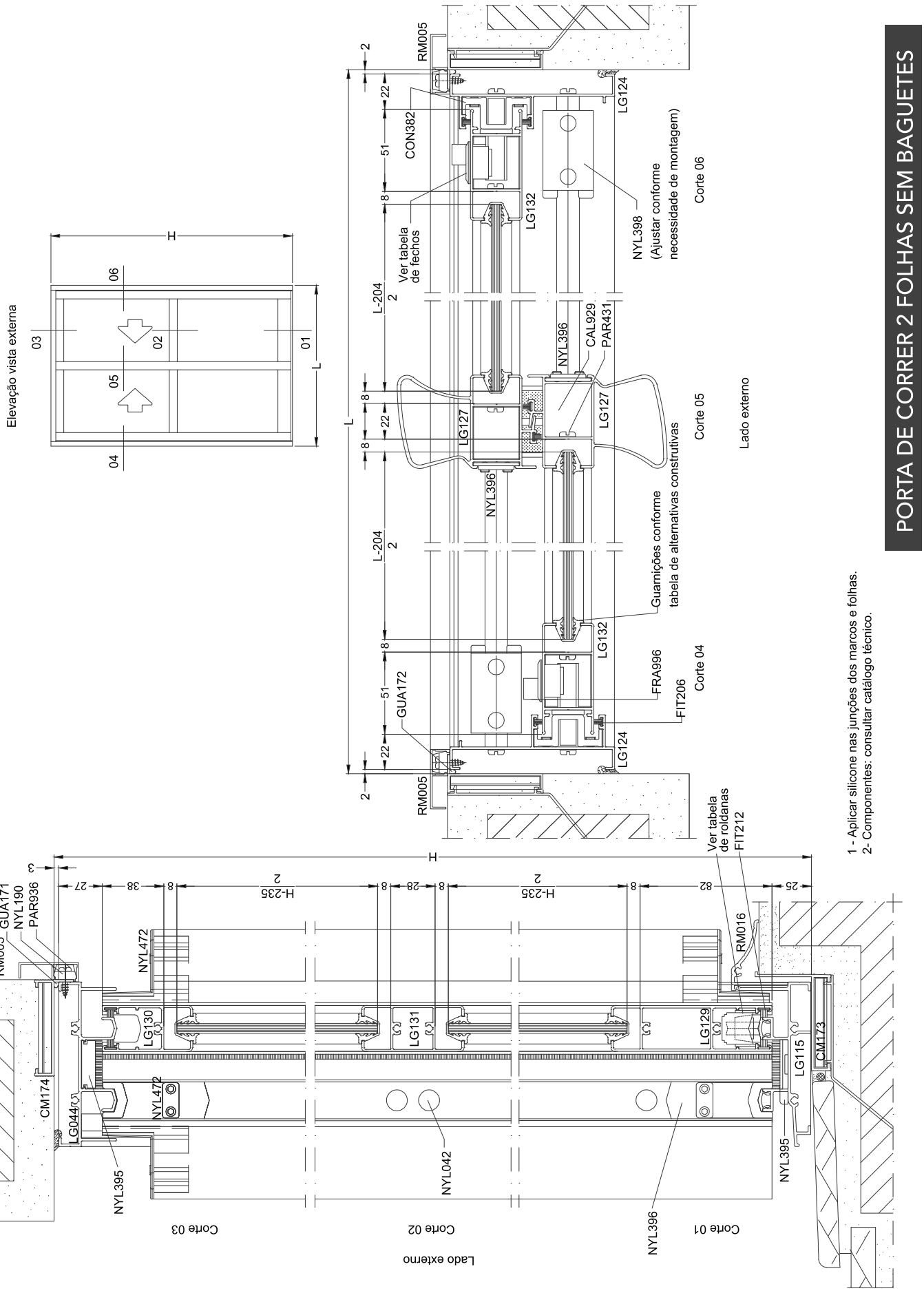
JANELA DE CORRER 6 FOLHAS COM VENEZIANA



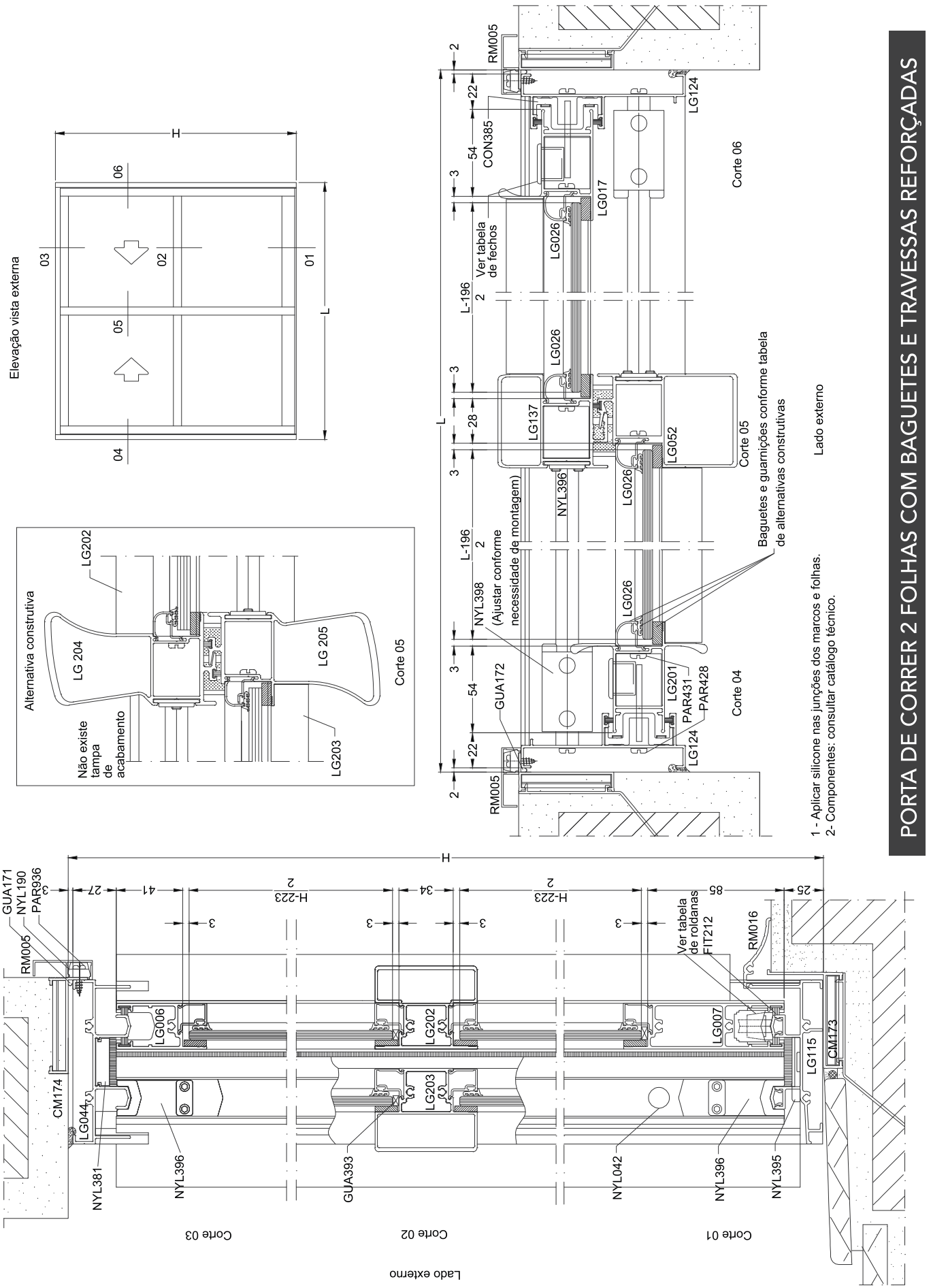
PORTA DE CORRER 2 FOLHAS COM BAGUETES



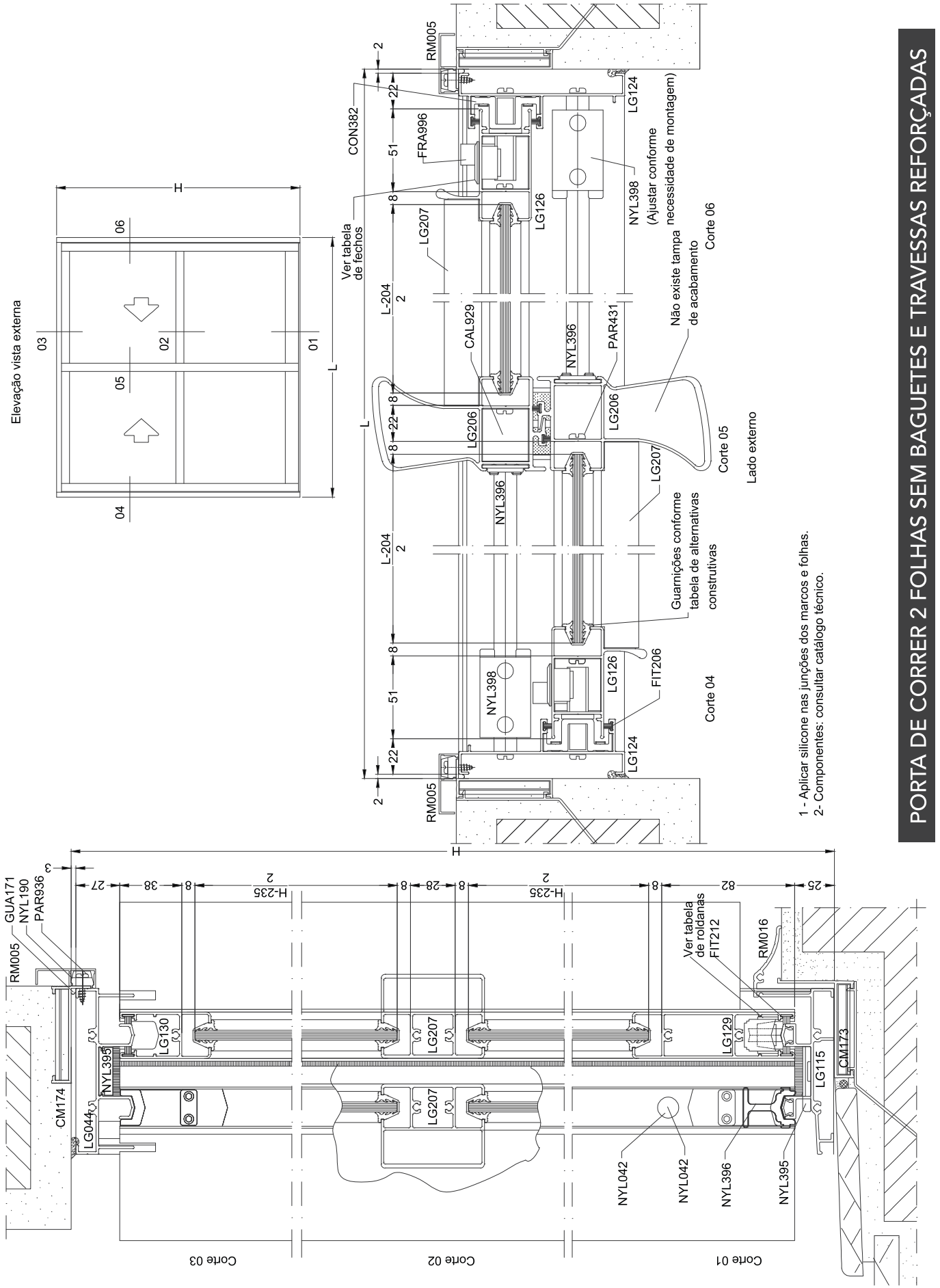
PORTA DE CORRER 2 FOLHAS SEM BAGUETES



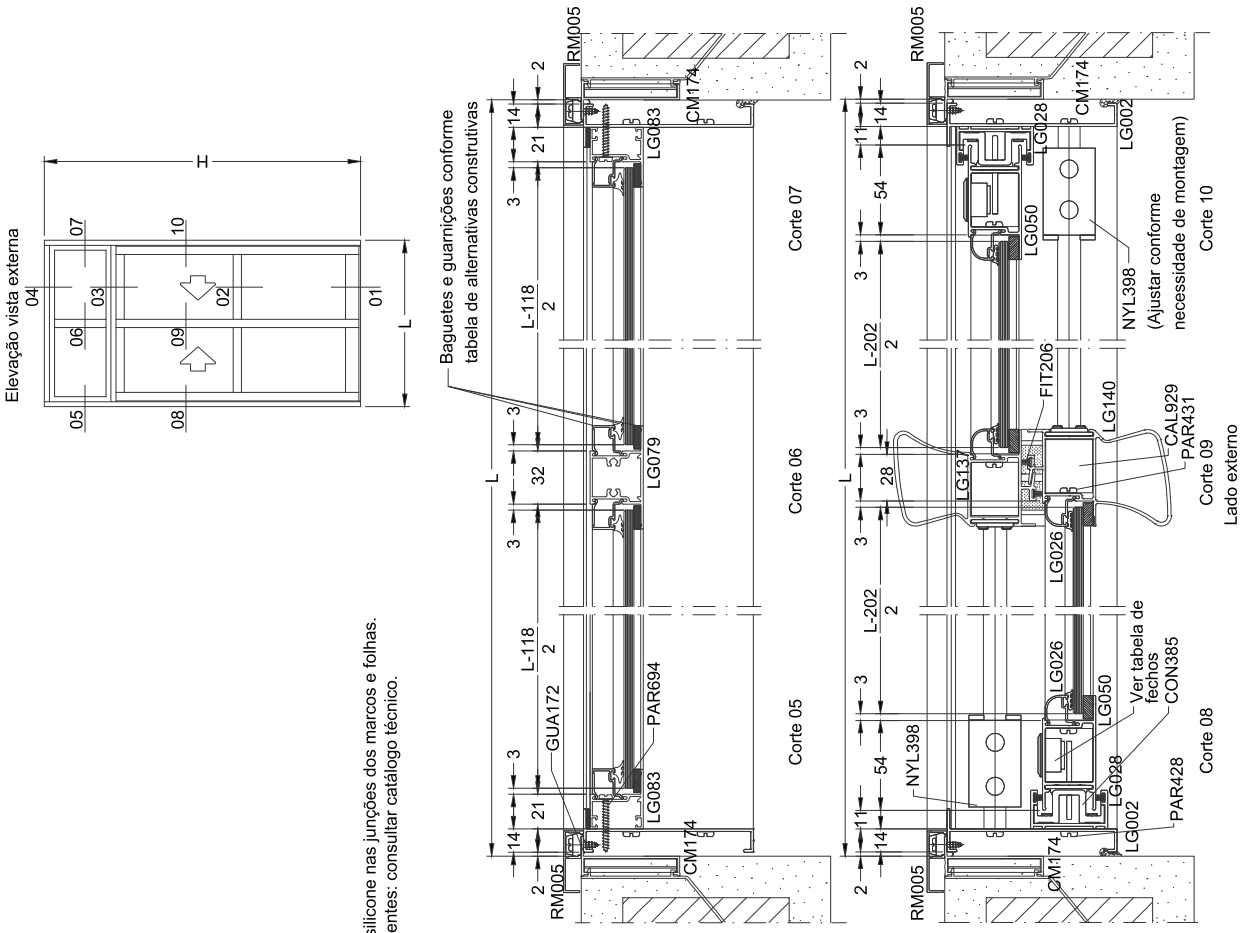
PORTA DE CORRER 2 FOLHAS COM BAGUETES E TRAVESSAS REFORÇADAS

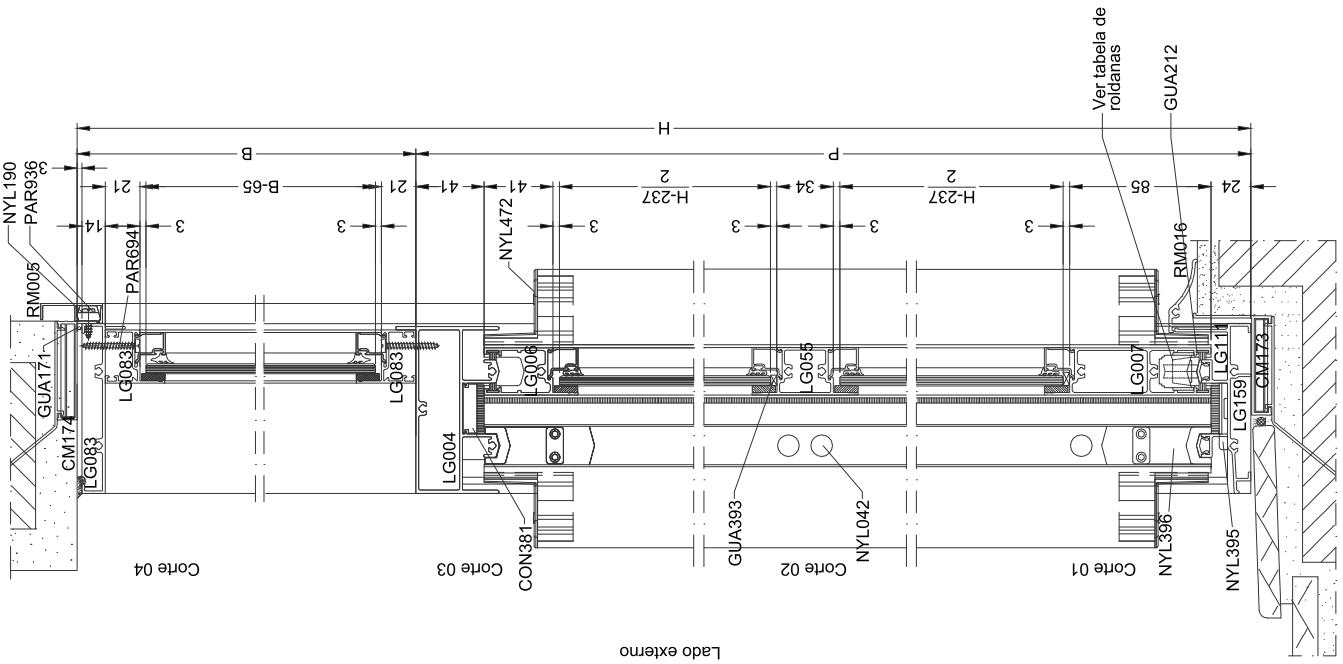


PORTA DE CORRER 2 FOLHAS SEM BAGUETES E TRAVESSAS REFORÇADAS

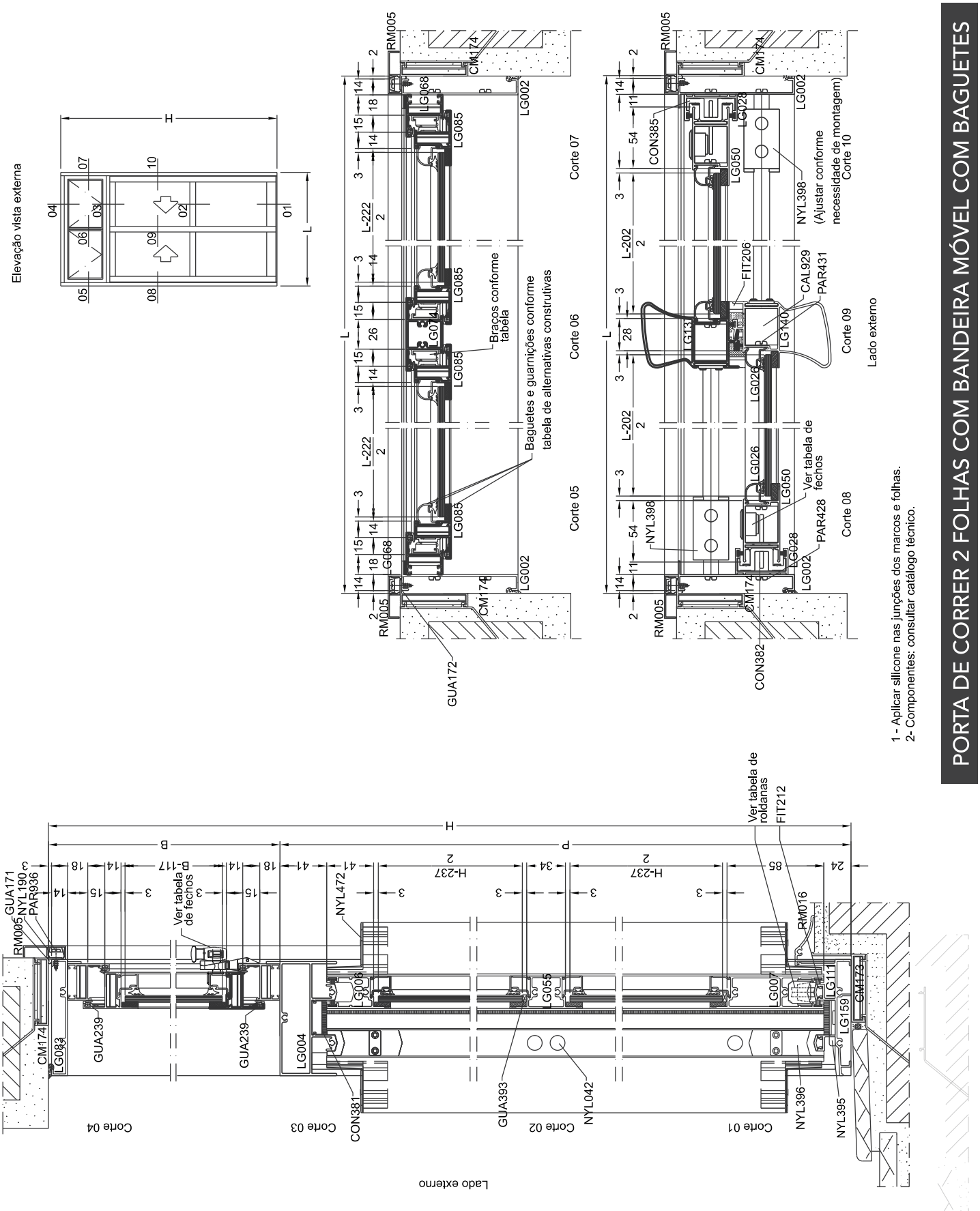


PORTA DE CORRER 2 FOLHAS COM BANDEIRA FIXA COM BAGUETES

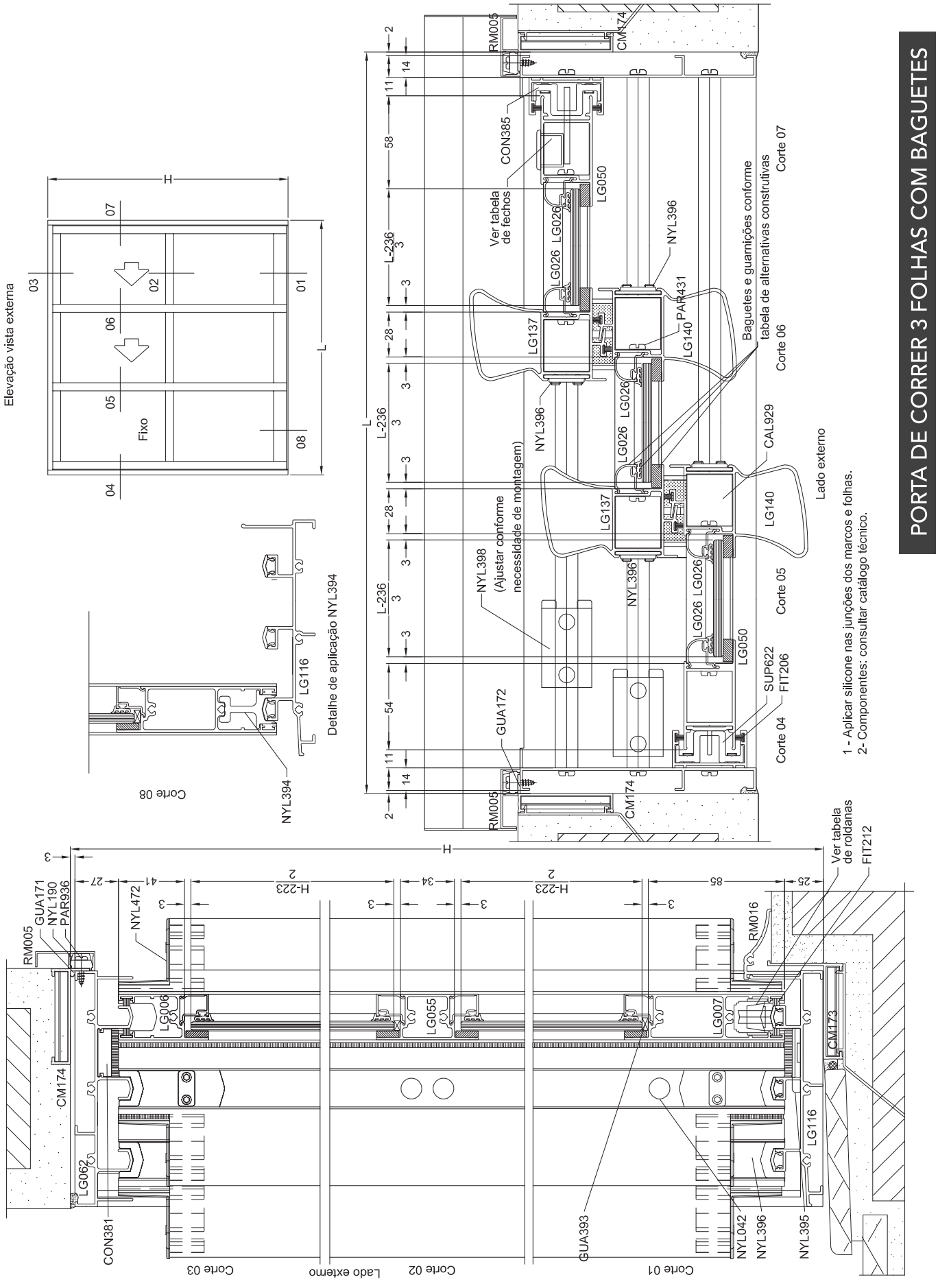




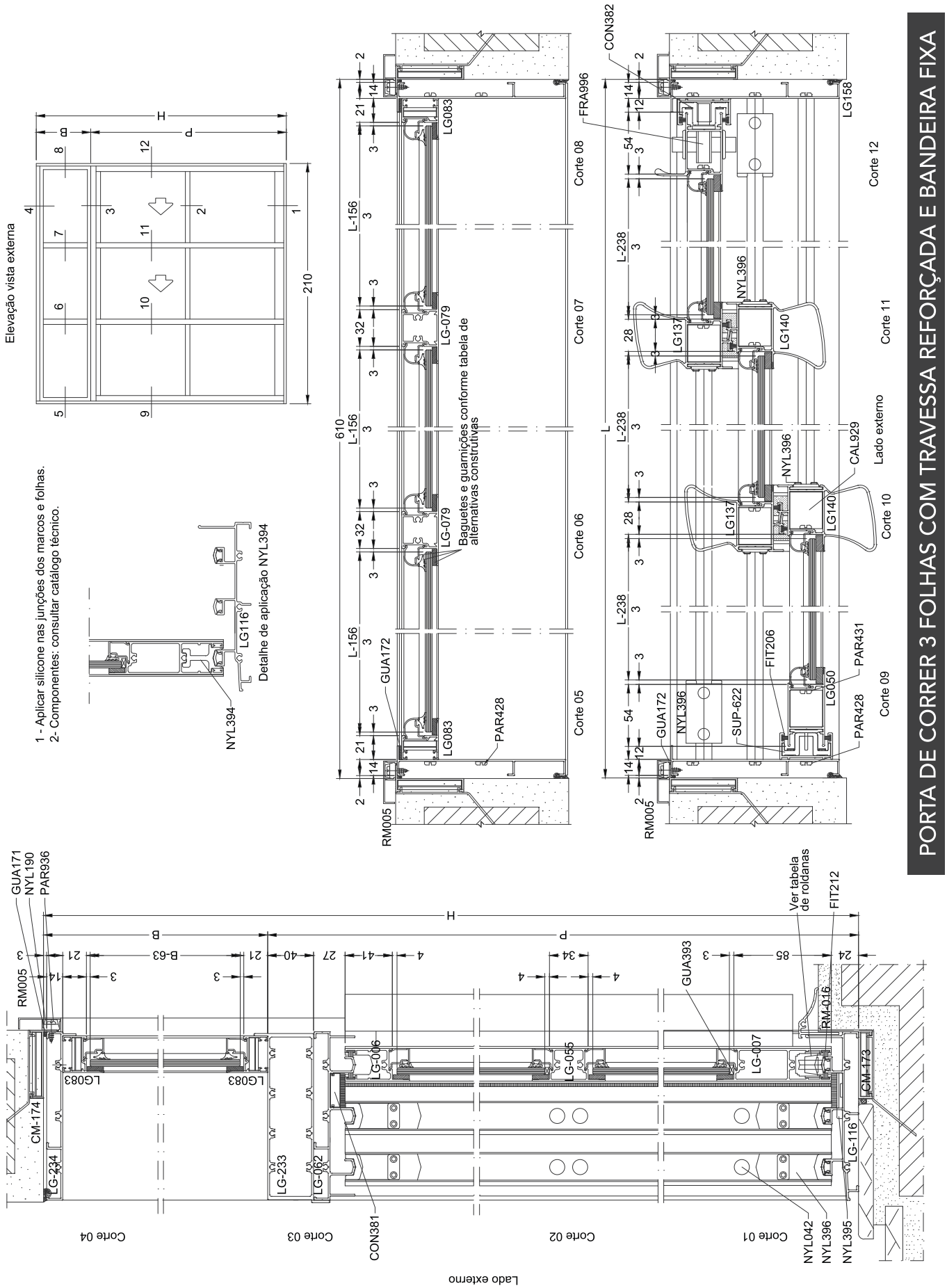
PORTA DE CORRER 2 FOLHAS COM BANDEIRA MÓVEL COM BAGUETES



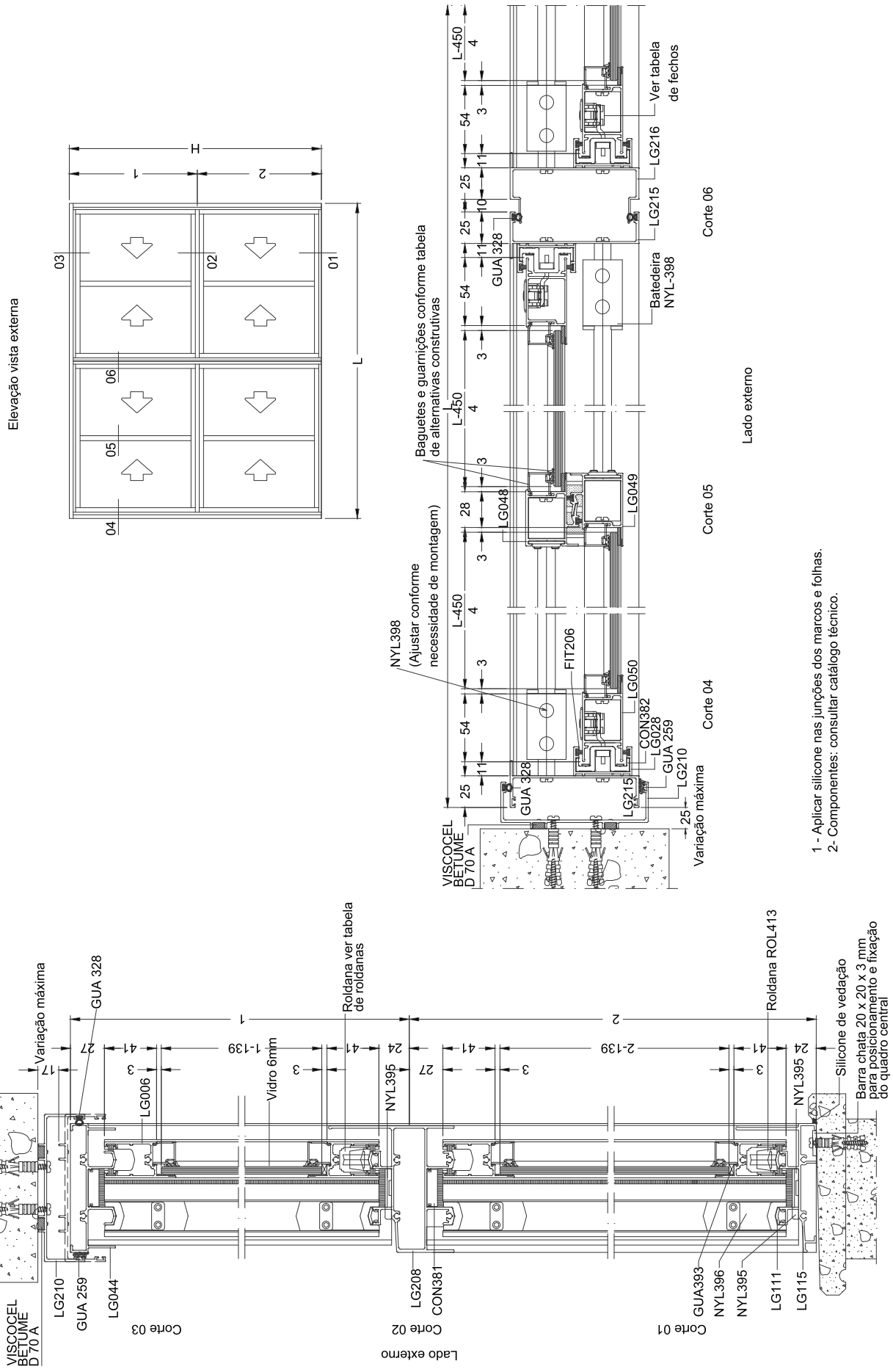
PORTA DE CORRER 3 FOLHAS COM BAGUETES



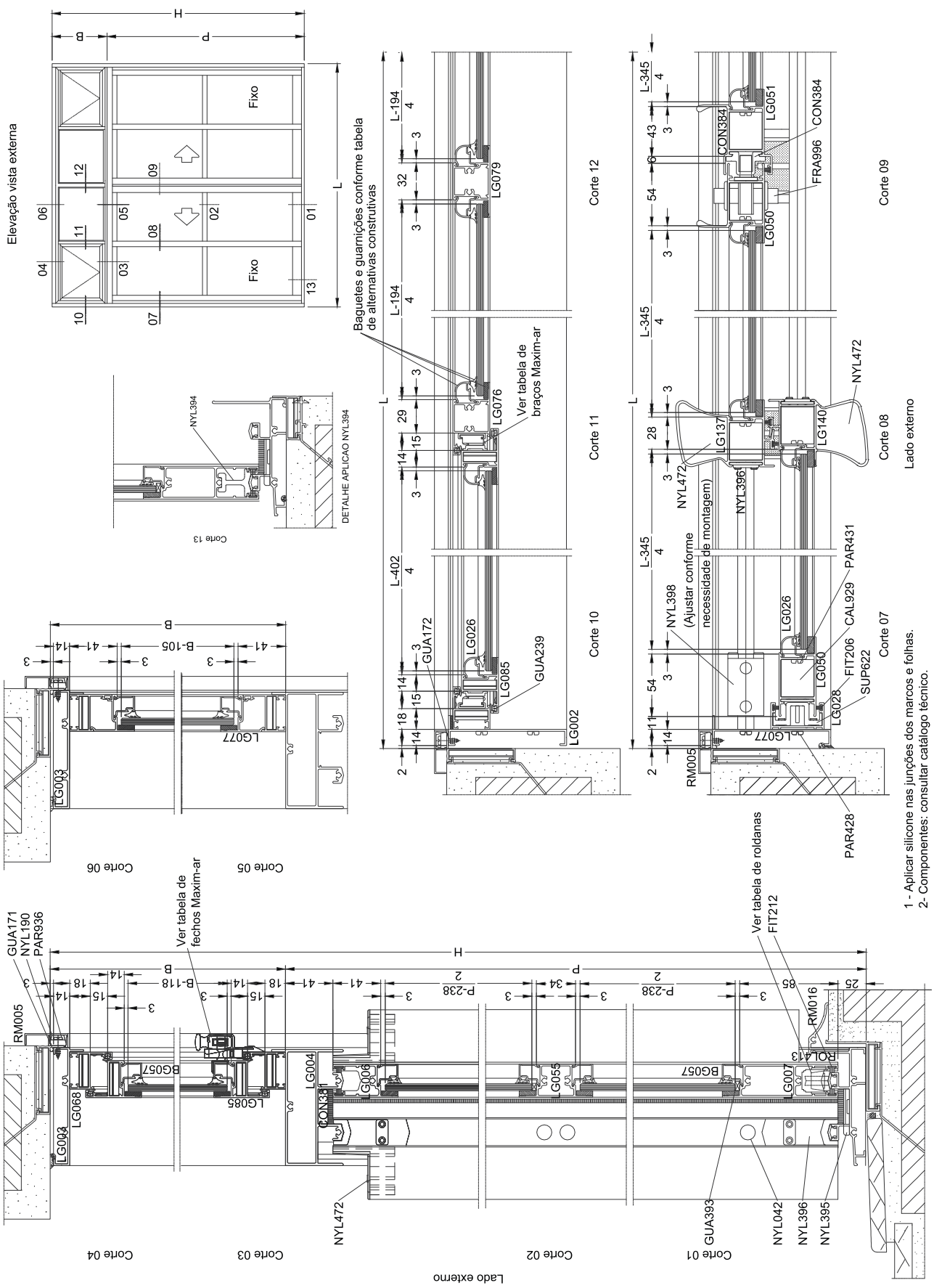
PORTA DE CORRER 3 FOLHAS COM TRAVESSA REFORÇADA E BANDEIRA FIXA



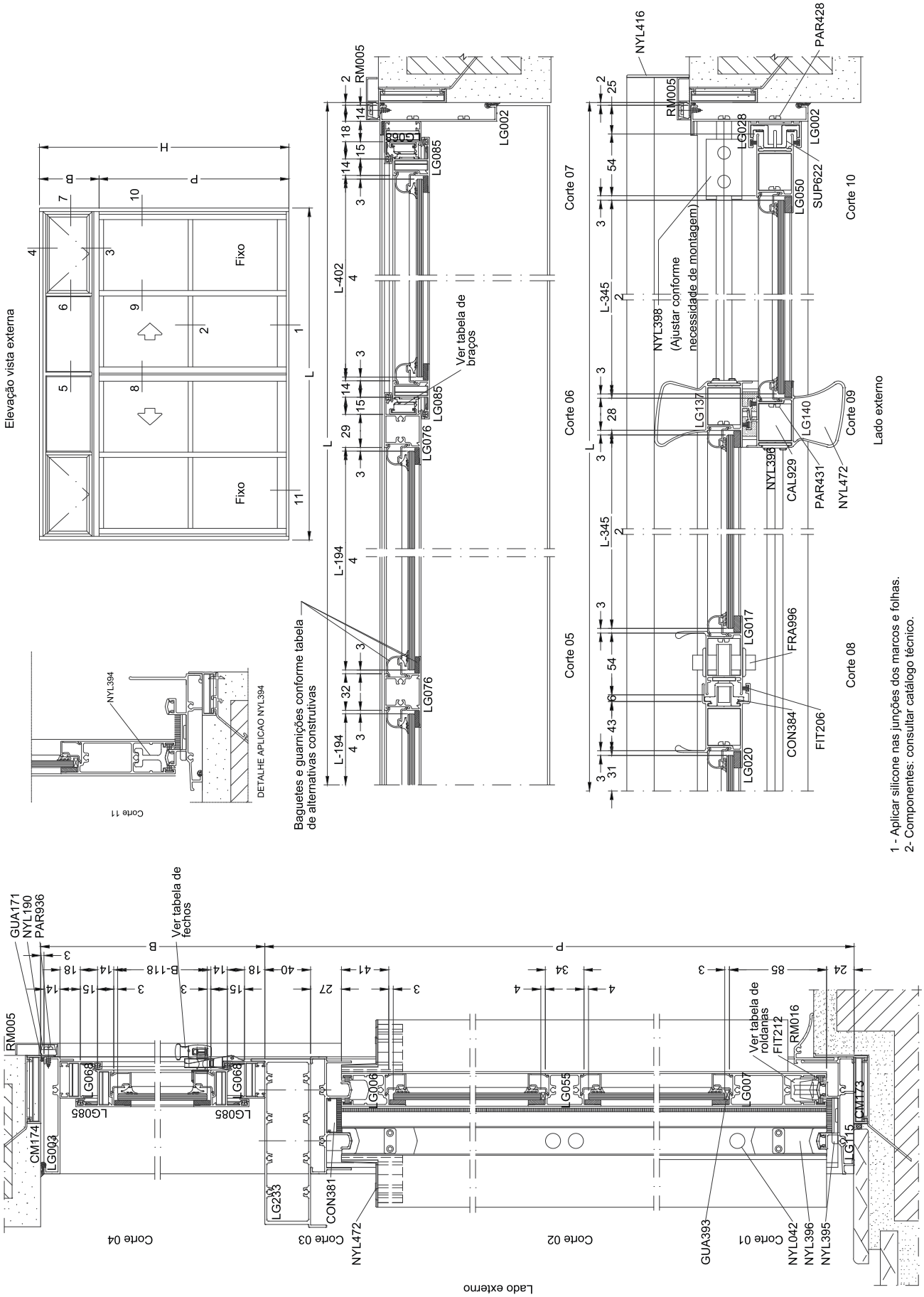
JANELA DE CORRER 2 FOLHAS COM BANDEIRA DE CORRER 2 FOLHAS



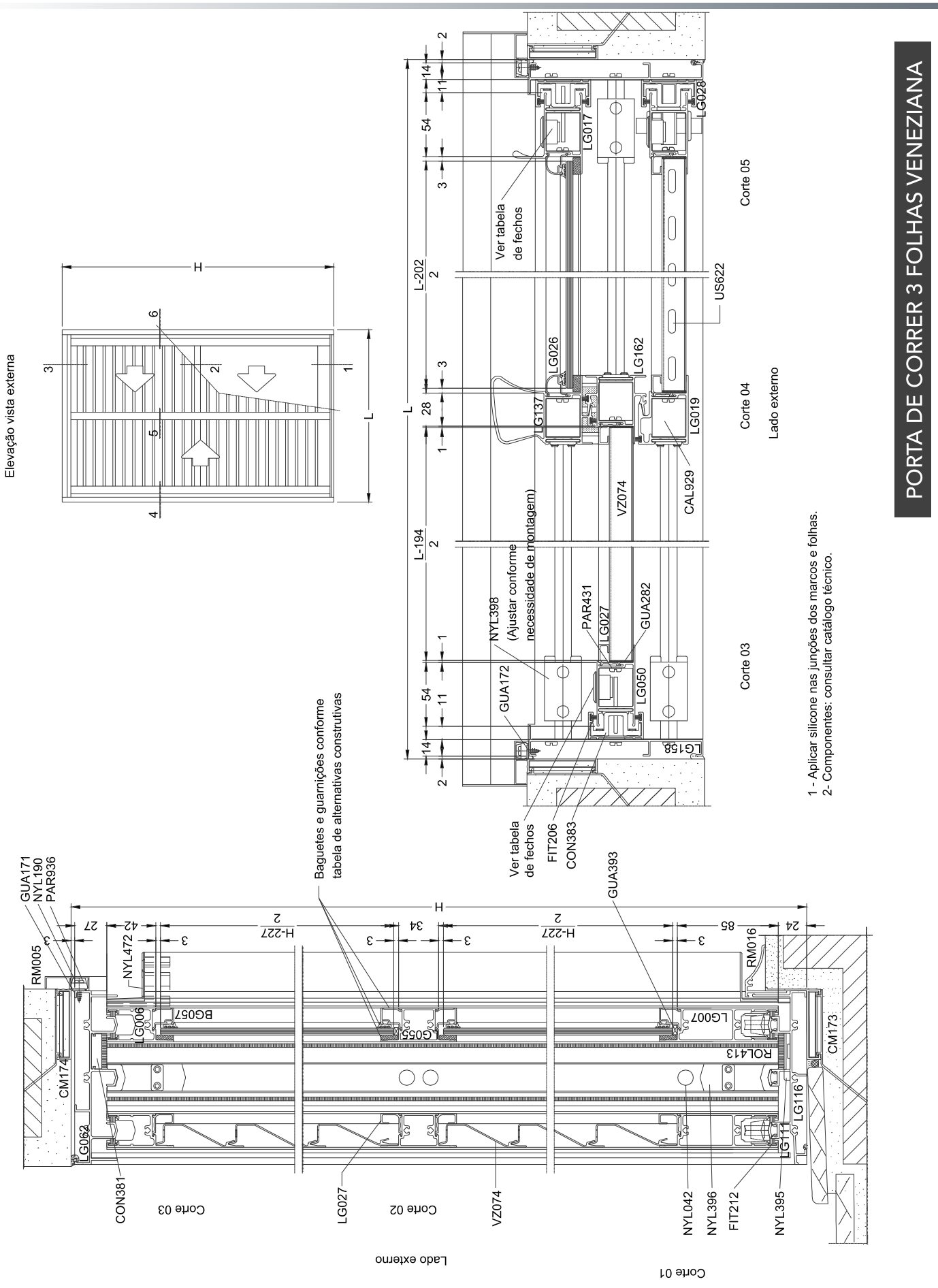
PORTA DE CORRER 4 FOLHAS COM BANDEIRA MÓVEL E FIXA COM BAGUETES

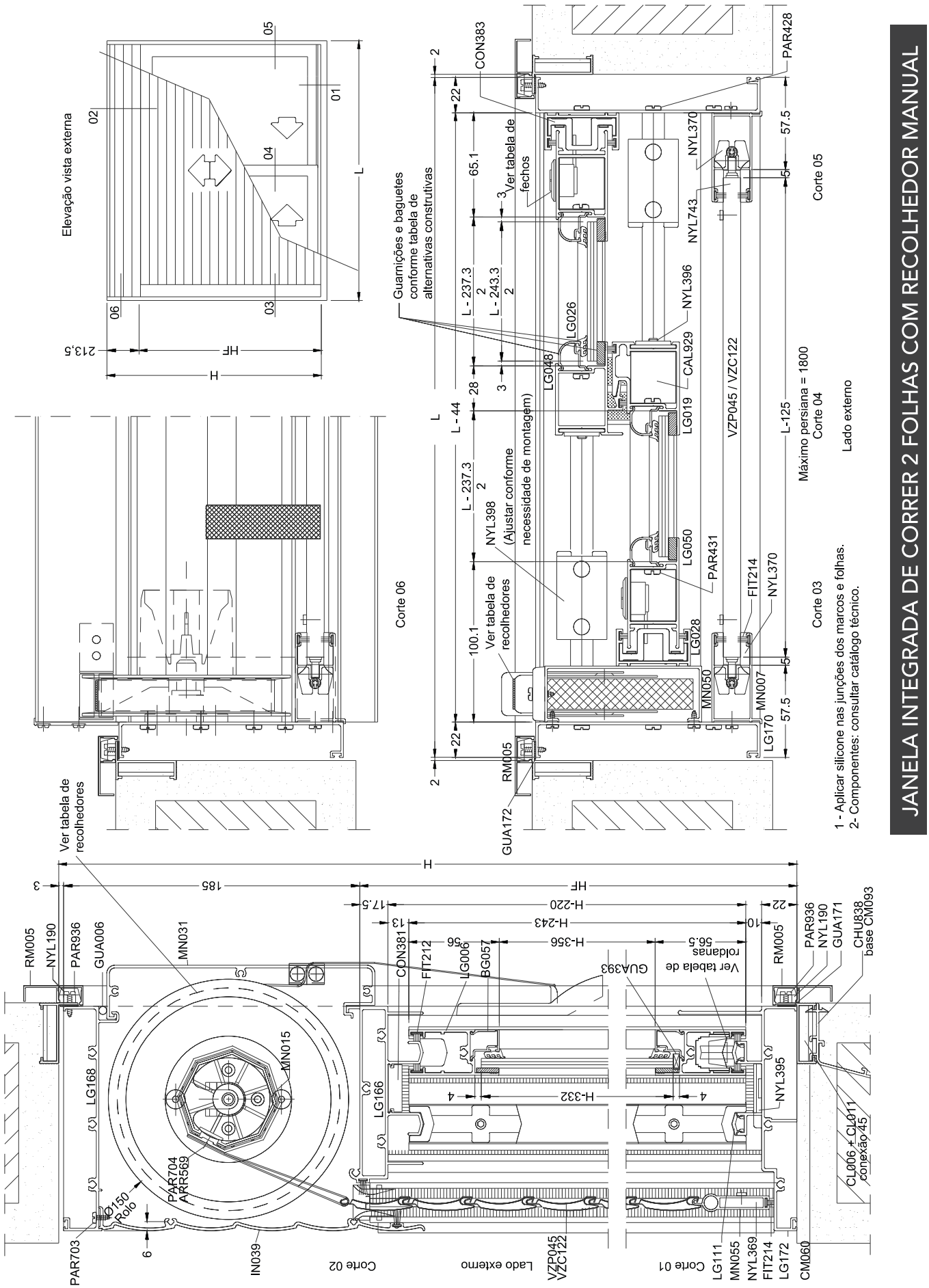


PORTA DE CORRER 4 FOLHAS COM TRAVESSA REFORÇADA, BANDEIRA FIXA E MAXIM-AR

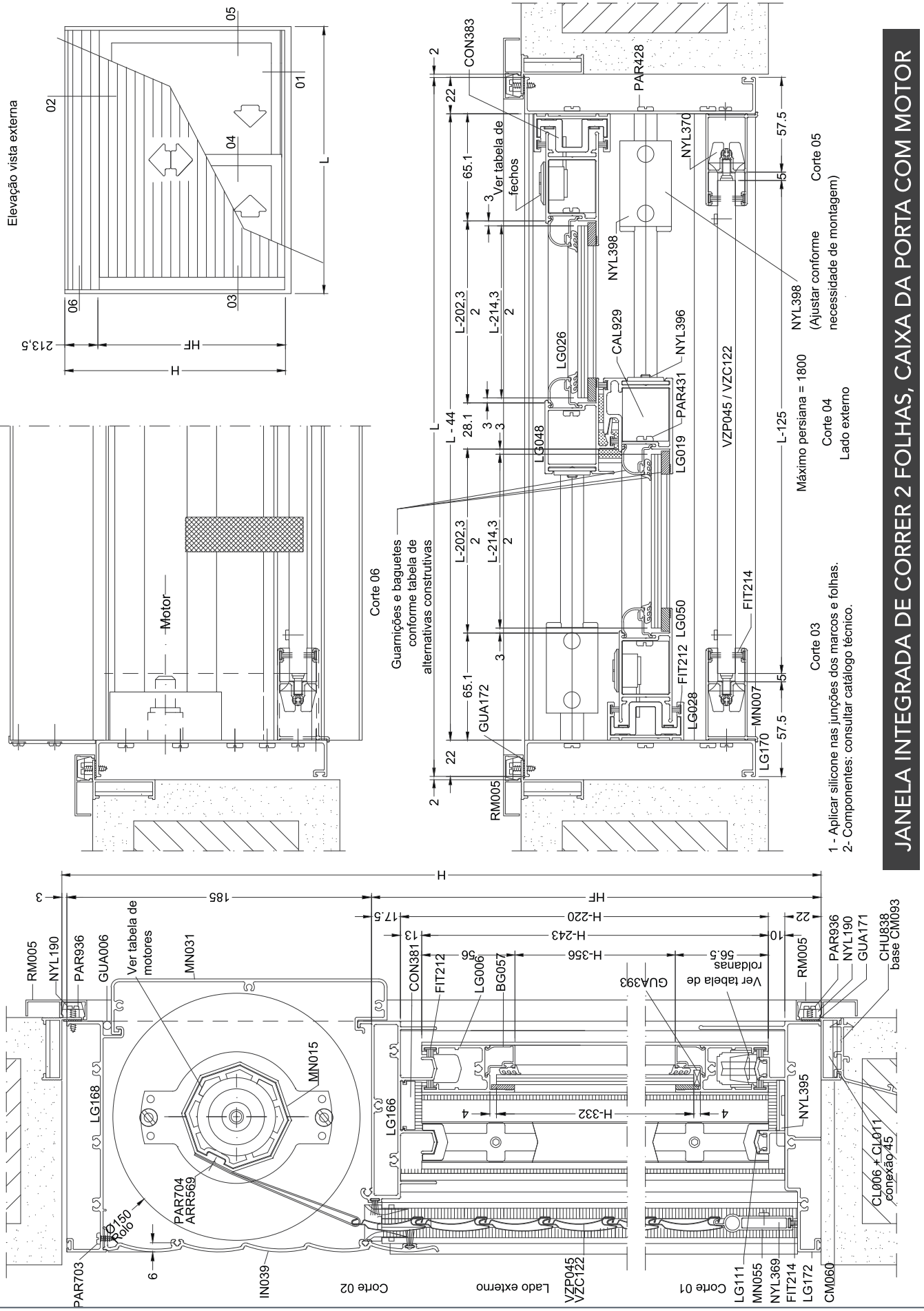


PORTA DE CORRER 3 FOLHAS VENEZIANA

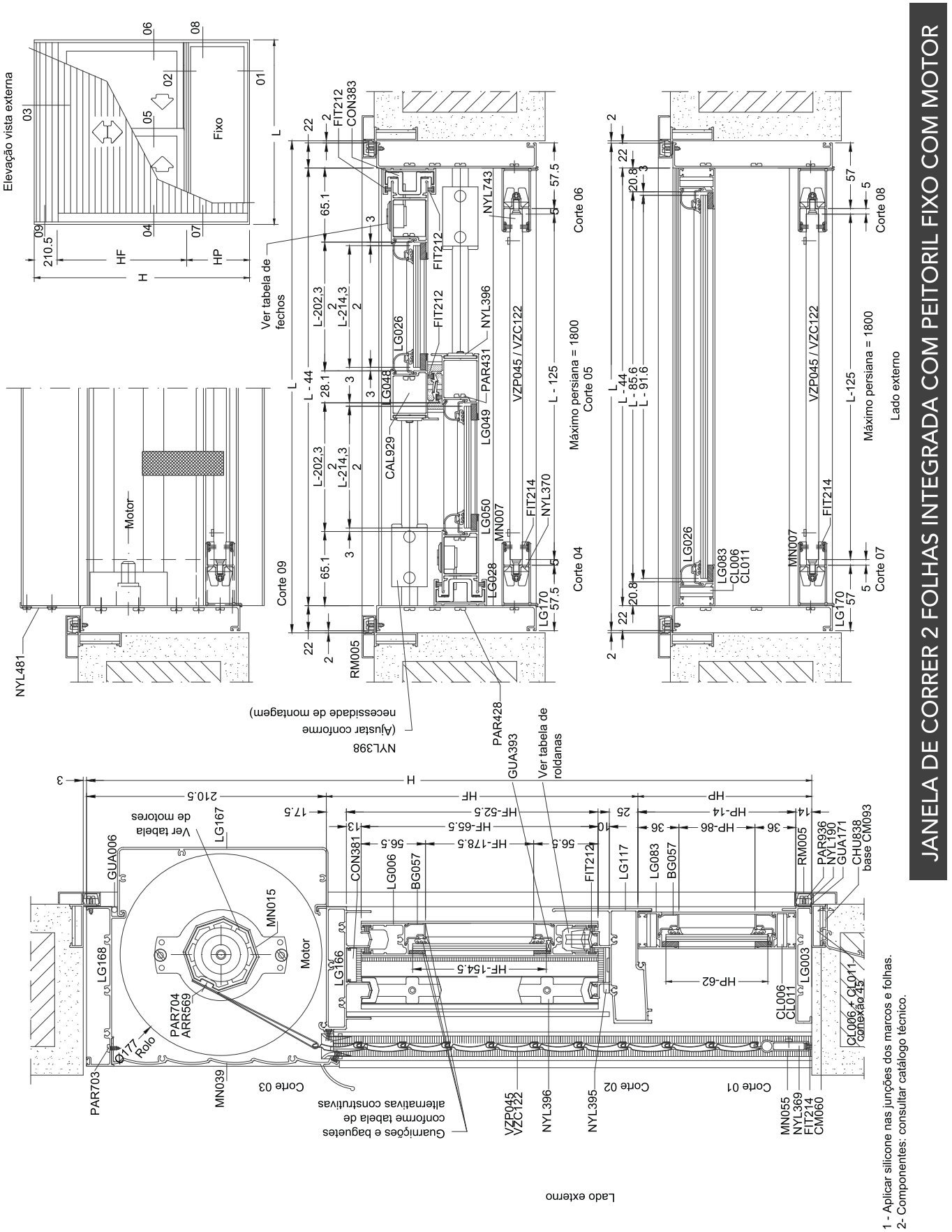



JANELA INTEGRADA DE CORRER 2 FOLHAS COM RECOLHEDOR MANUAL
Elevação vista externa
Corte 06
Corte 05
Corte 04
Corte 03
Corte 02
Corte 01
Lado externo
Máximo persiana = 1800
Ver tabela de recolhedores
Ver tabela de fechos
Guarnições e baguetes conforme tabela de alternativas construtivas
(Ajustar conforme necessidade de montagem)
rolldanas
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

JANELA INTEGRADA DE CORRER 2 FOLHAS, CAIXA DA PORTA COM MOTOR

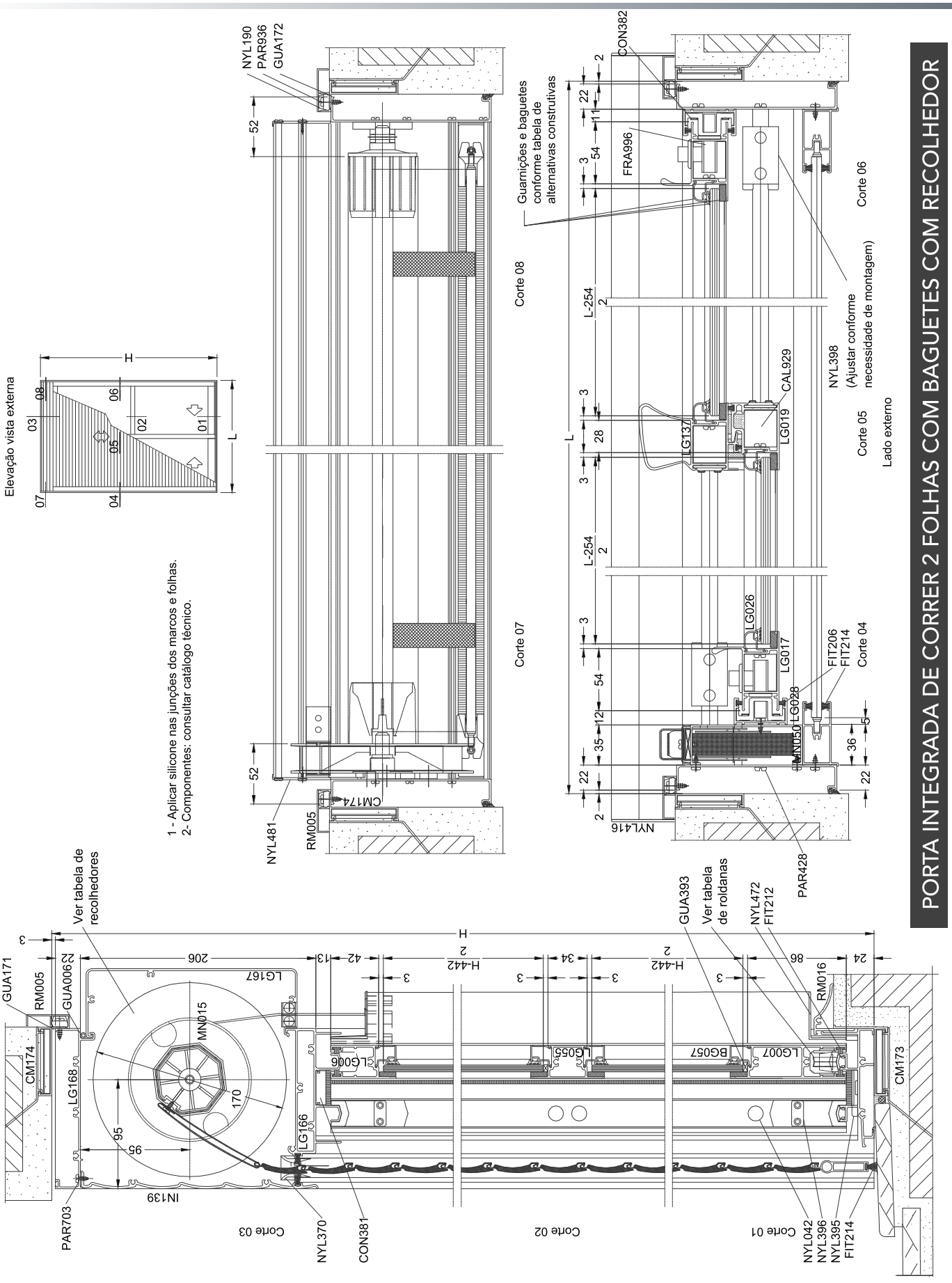


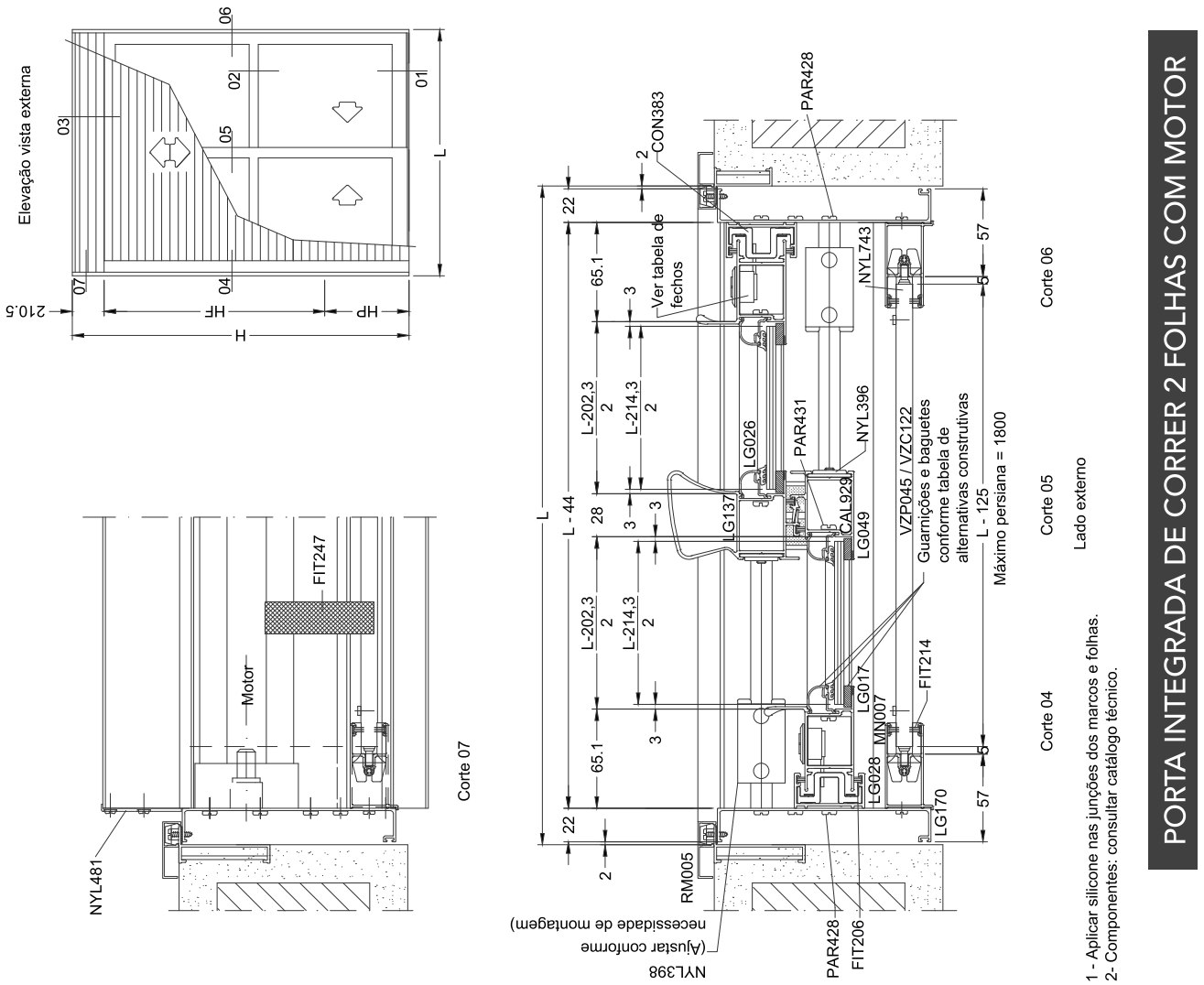
JANELA DE CORRER 2 FOLHAS INTEGRADA COM PEITORIL FIXO COM MOTOR

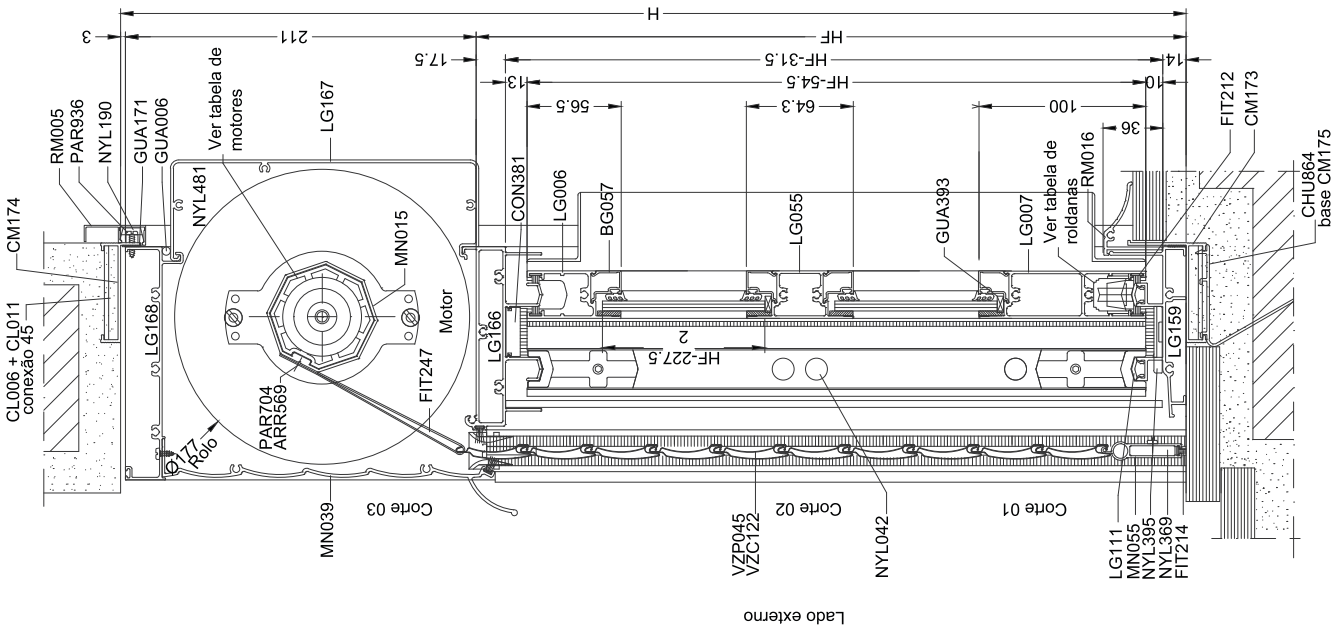


1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

PORTA INTEGRADA DE CORRER 2 FOLHAS COM BAGUETES COM RECOLHEDOR

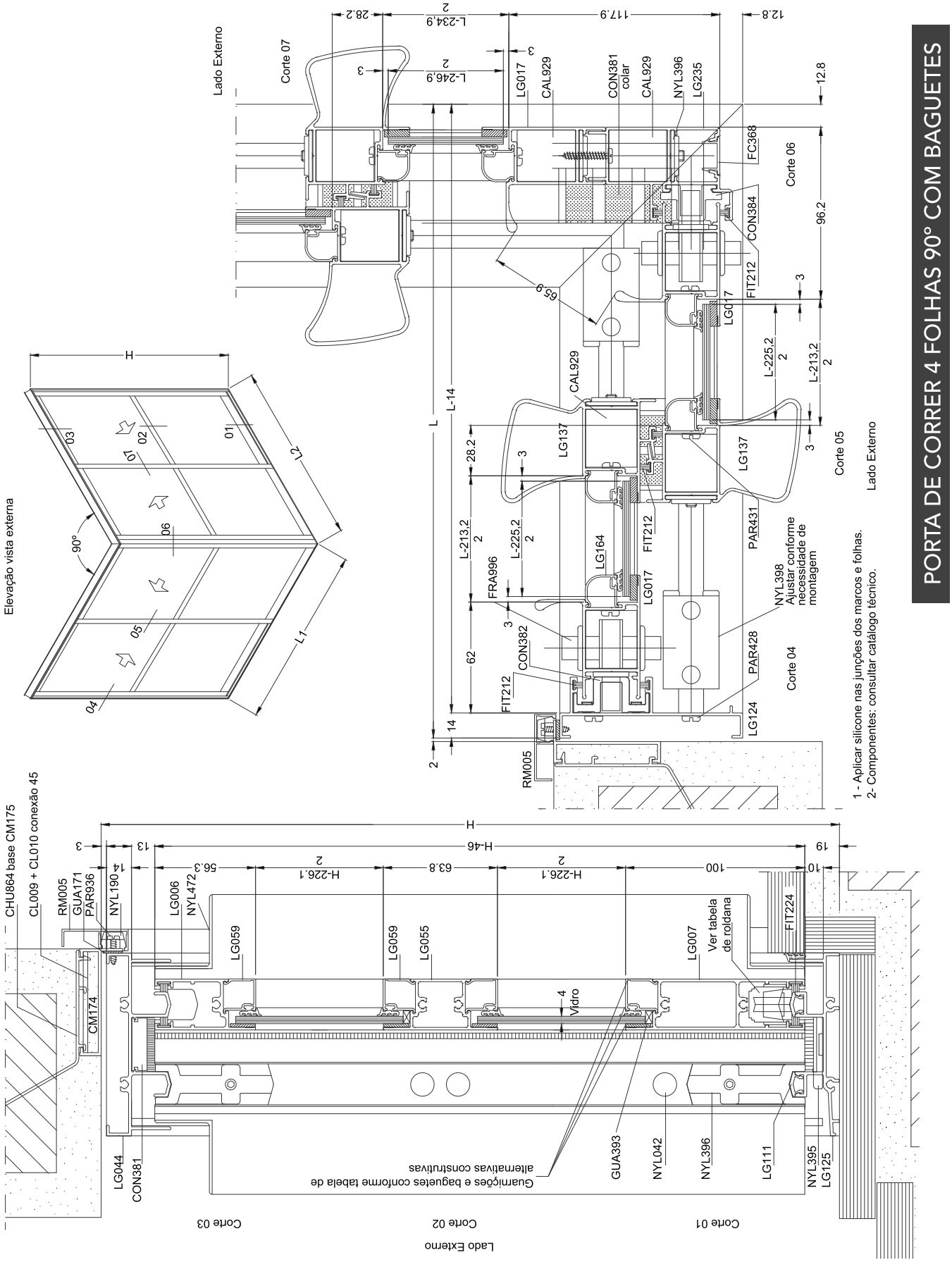




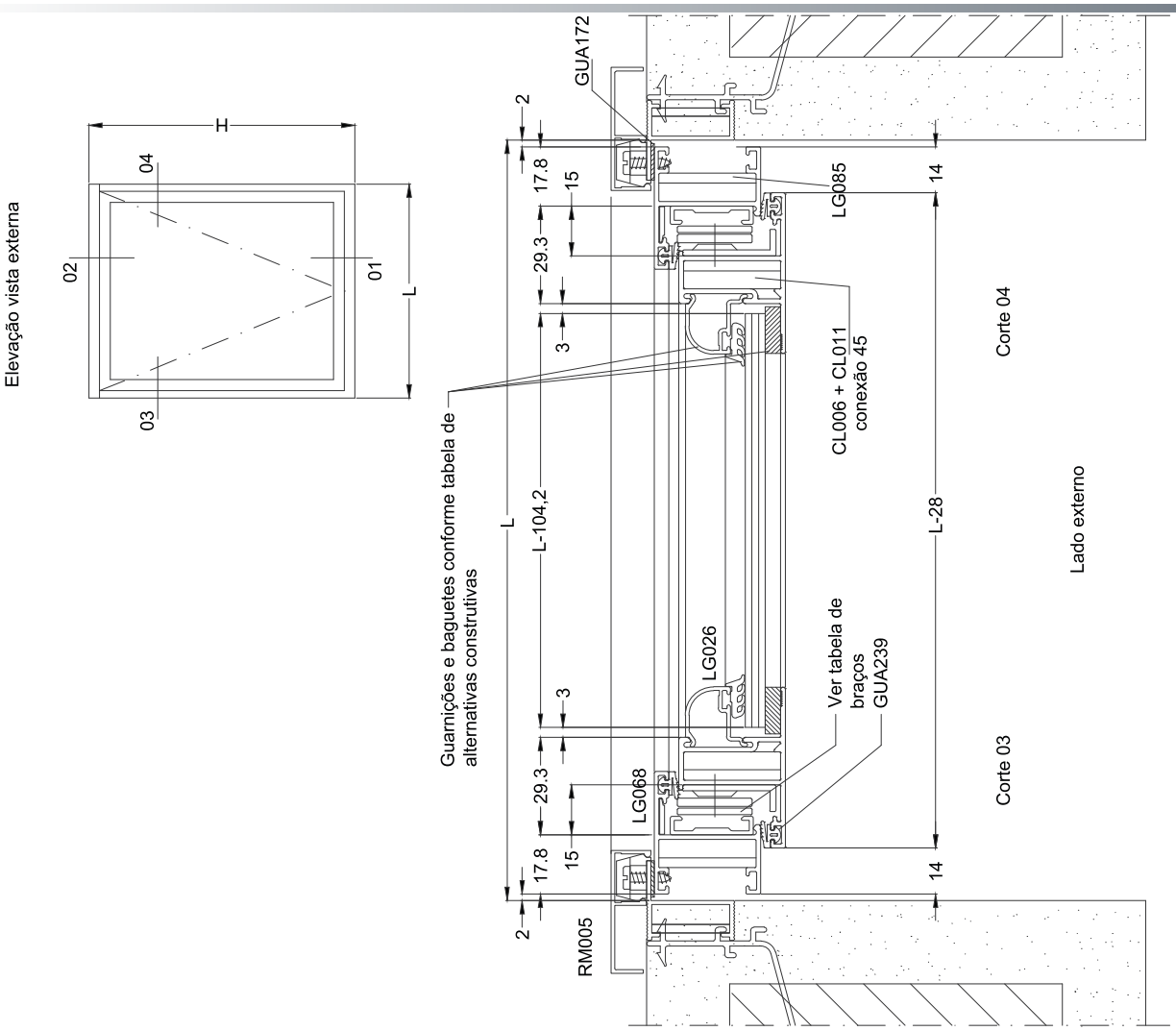


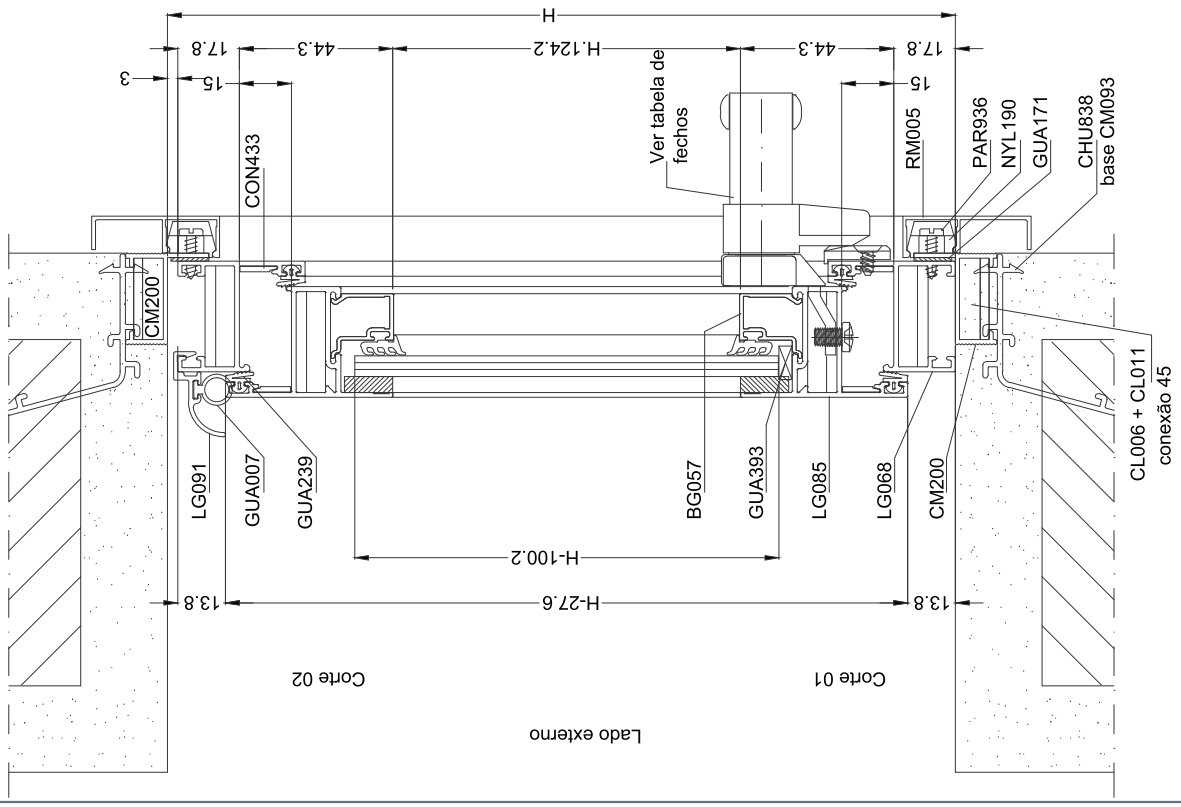
PORTA INTEGRADA DE CORRER 2 FOLHAS COM MOTOR

PORTA DE CORRER 4 FOLHAS 90° COM BAGUETES



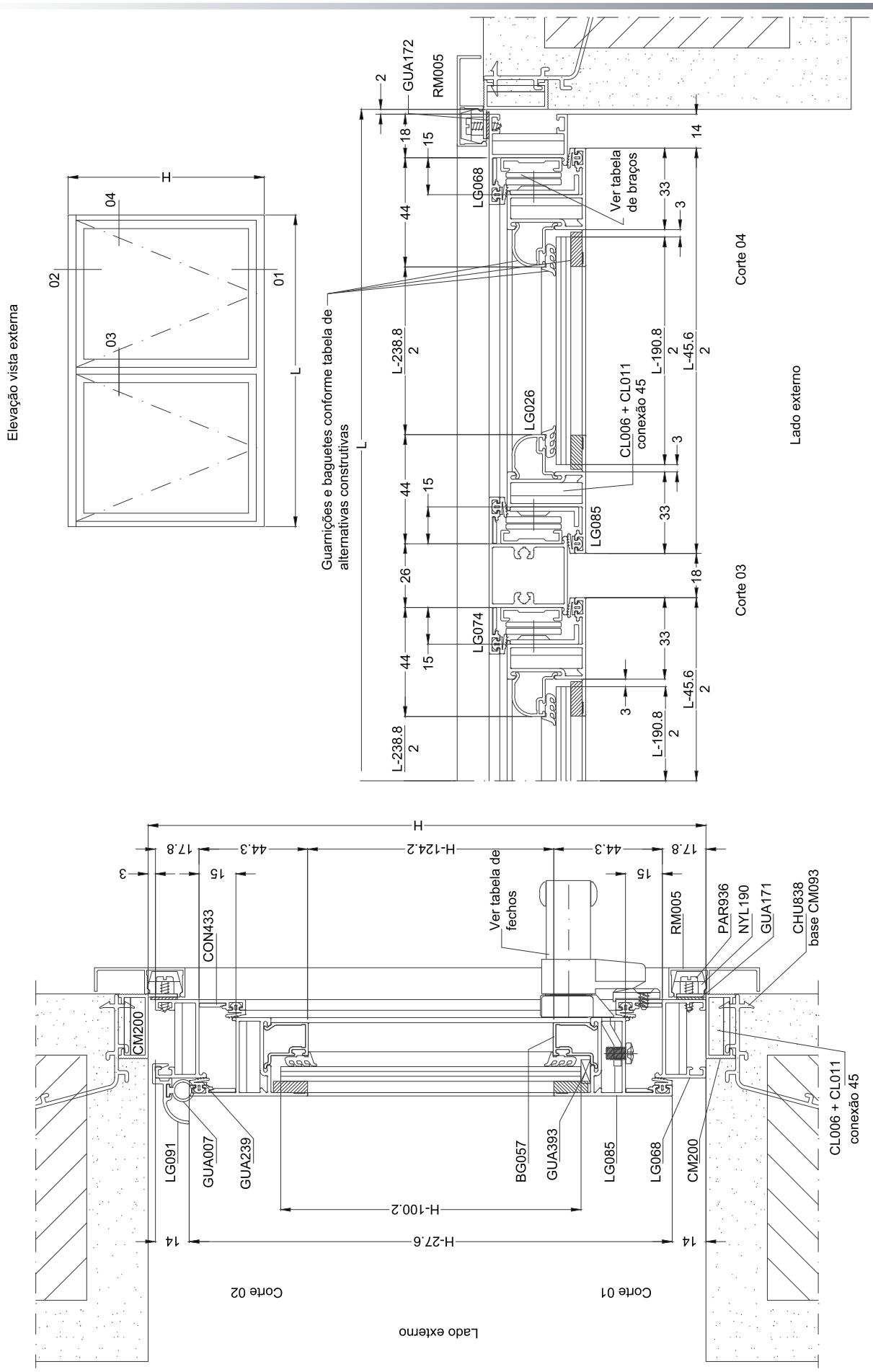
JANELA MAXIM-AR COM BAGUETES





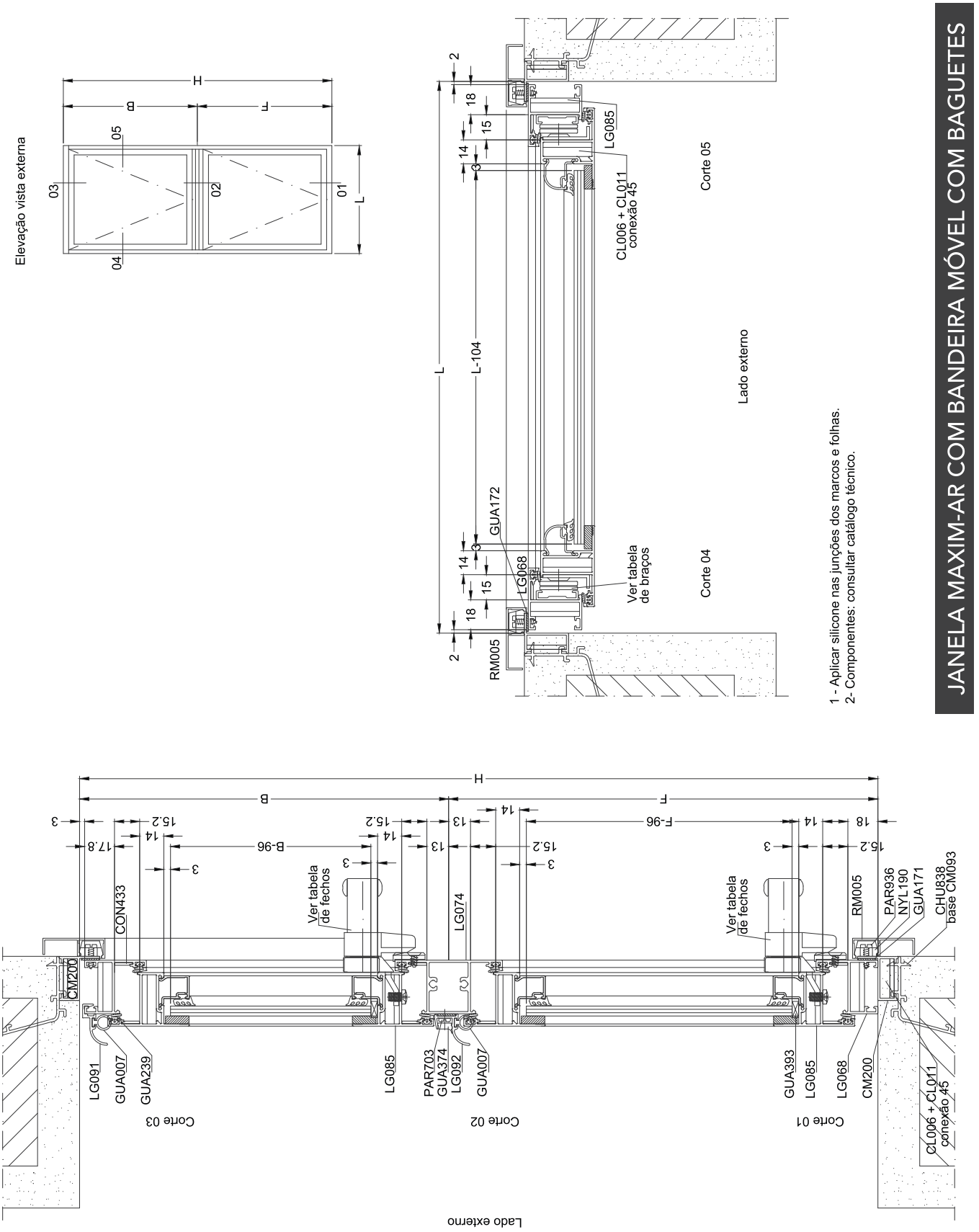
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

JANELA MAXIM-AR 2 FOLHAS COM BAGUETES

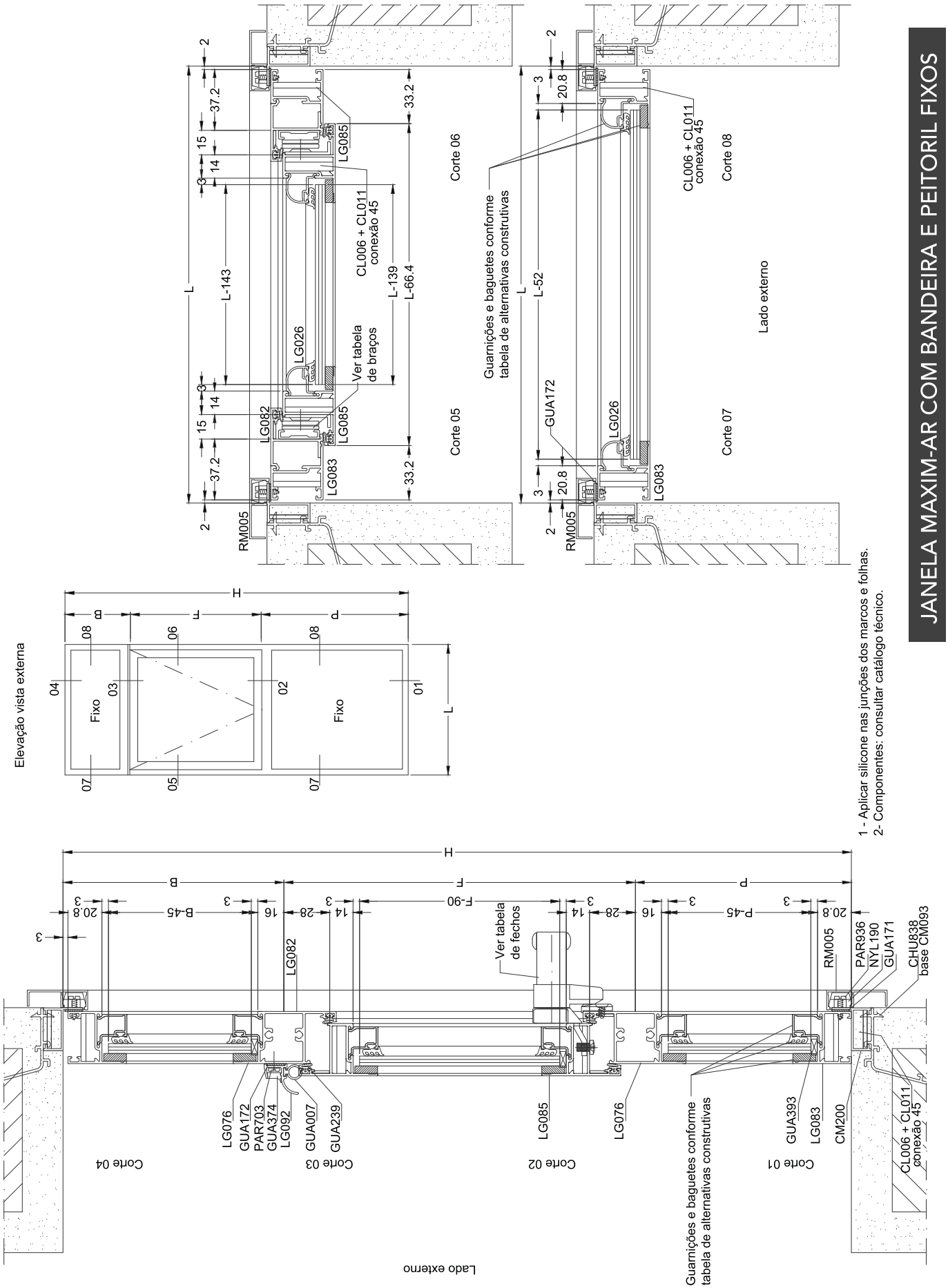


1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

JANELA MAXIM-AR COM BANDEIRA MÓVEL COM BAGUETES

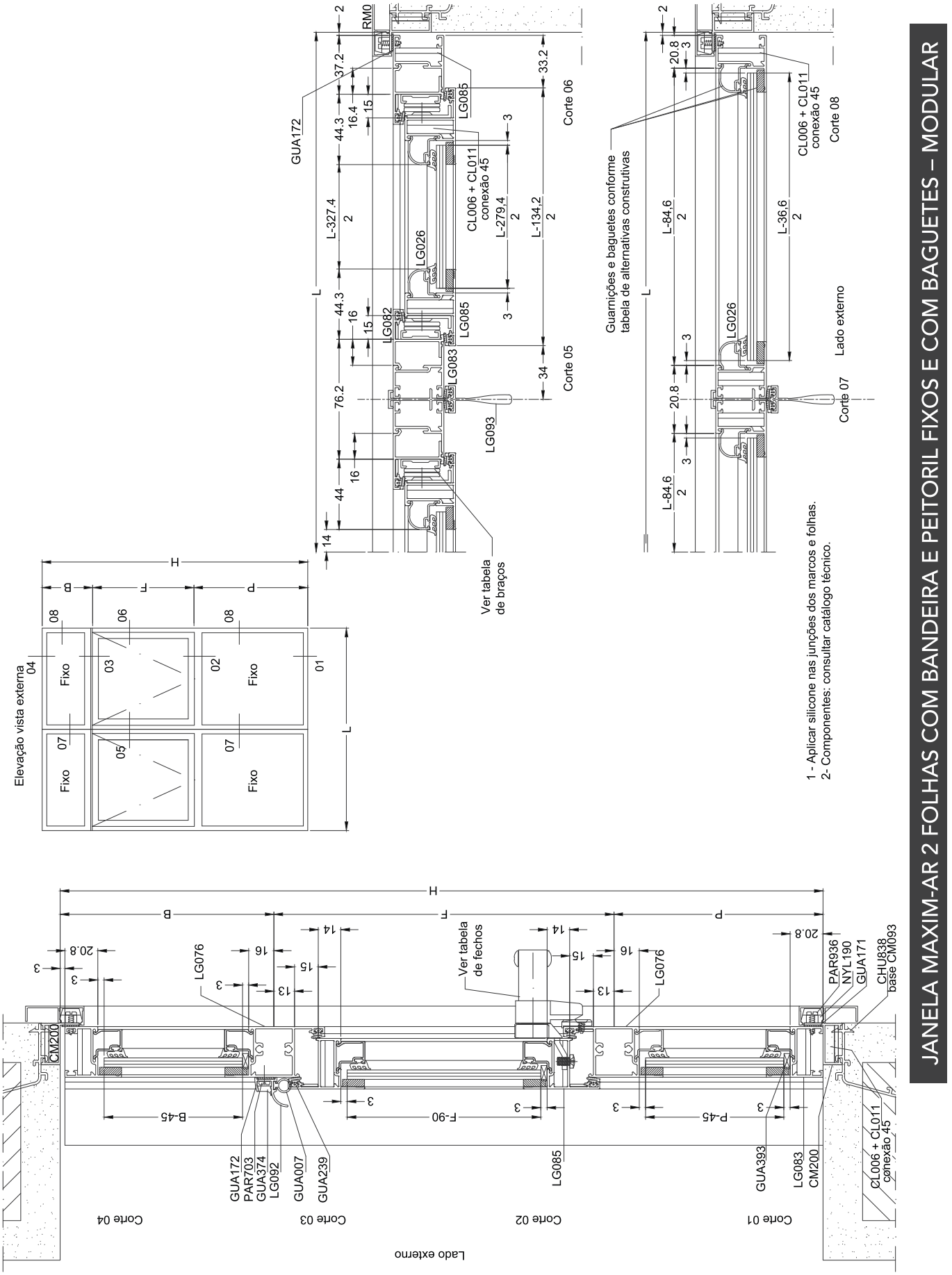


JANELA MAXIM-AR COM BANDEIRA E PEITORIL FIXOS

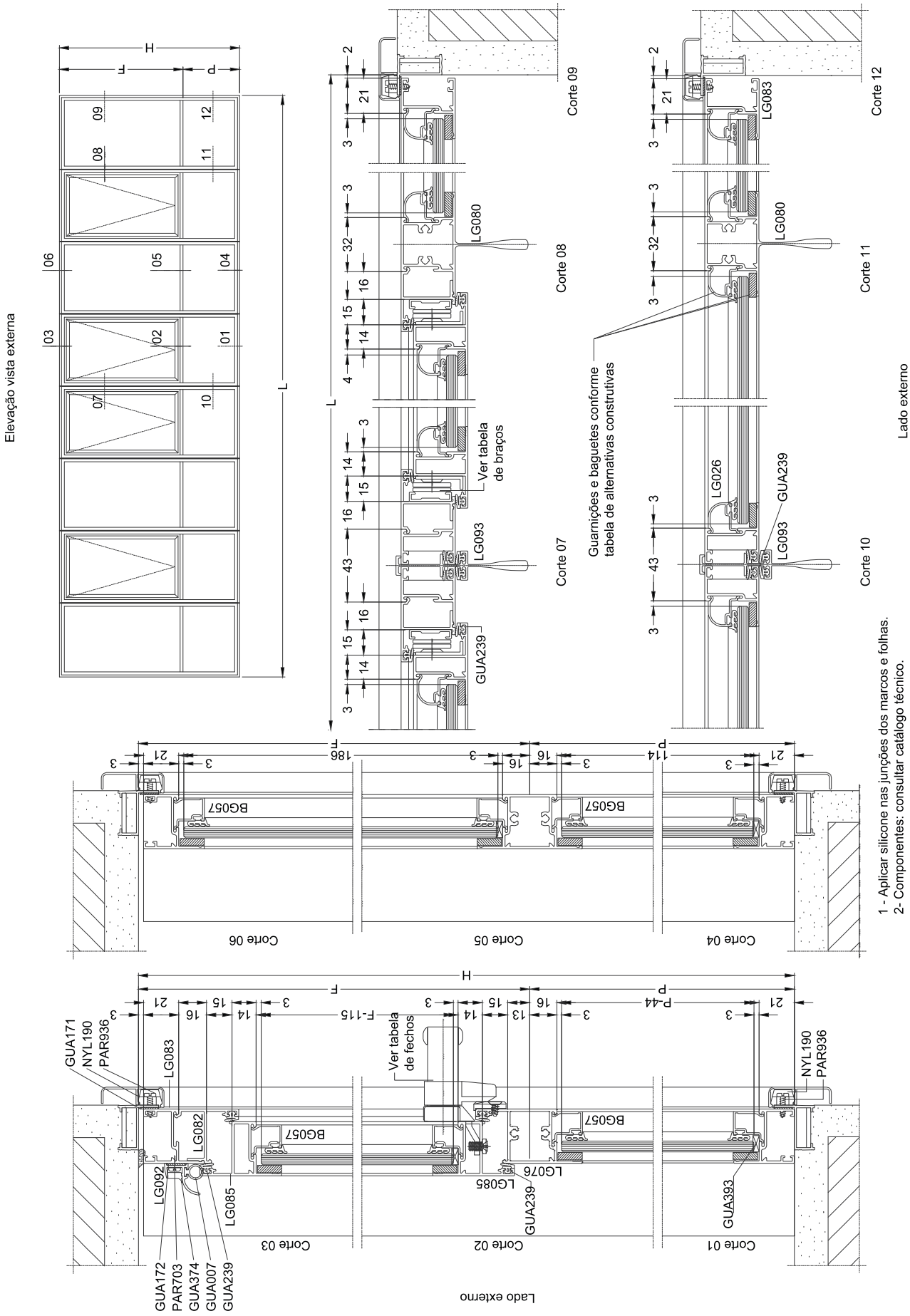


1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

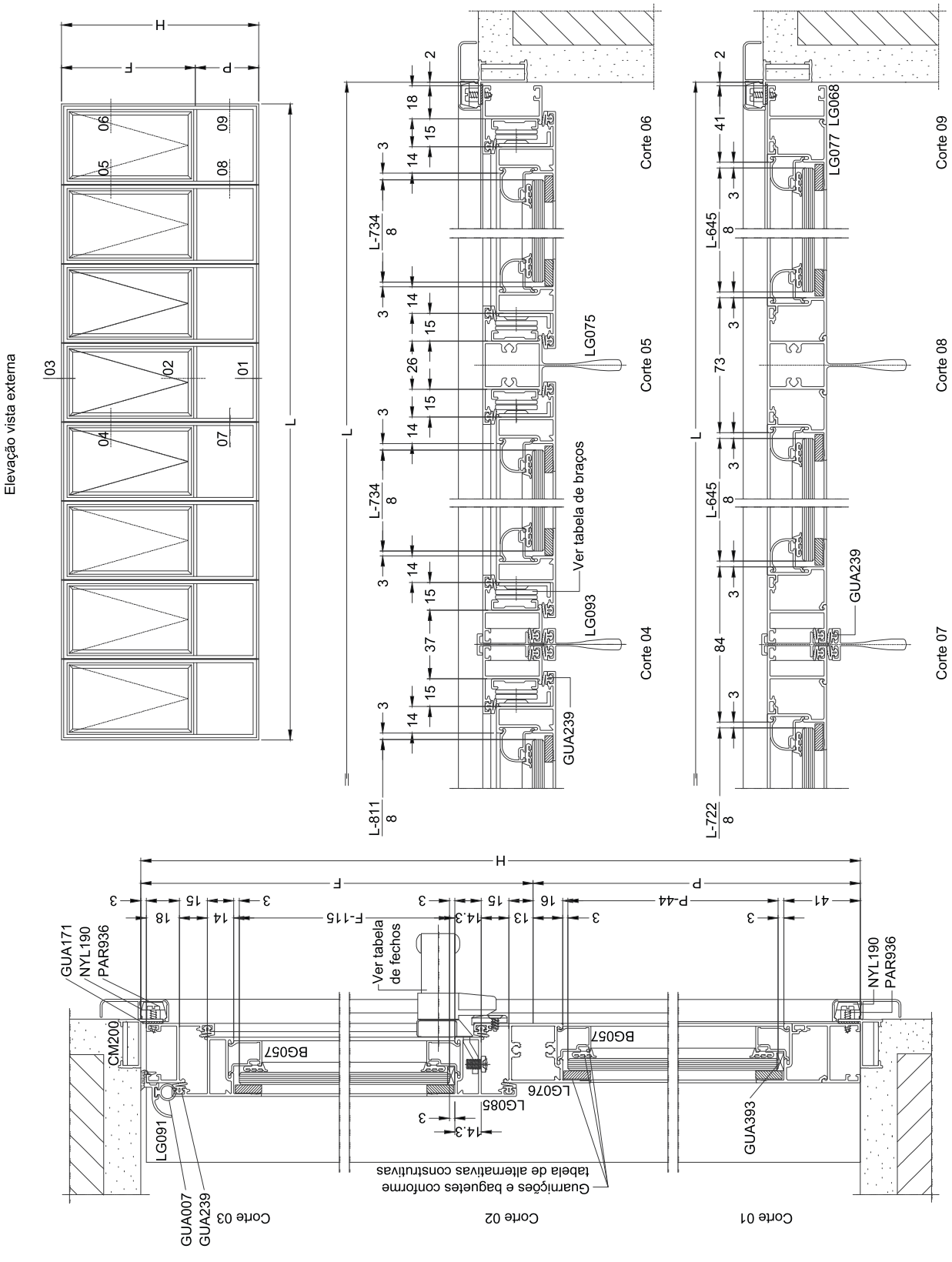
JANELA MAXIM-AR 2 FOLHAS COM BANDEIRA E PEITORIL FIXOS E COM BAGUETES – MODULAR



JANELA MAXIM-AR COM PEITORIL E PAINEL FIXOS – MODULAR

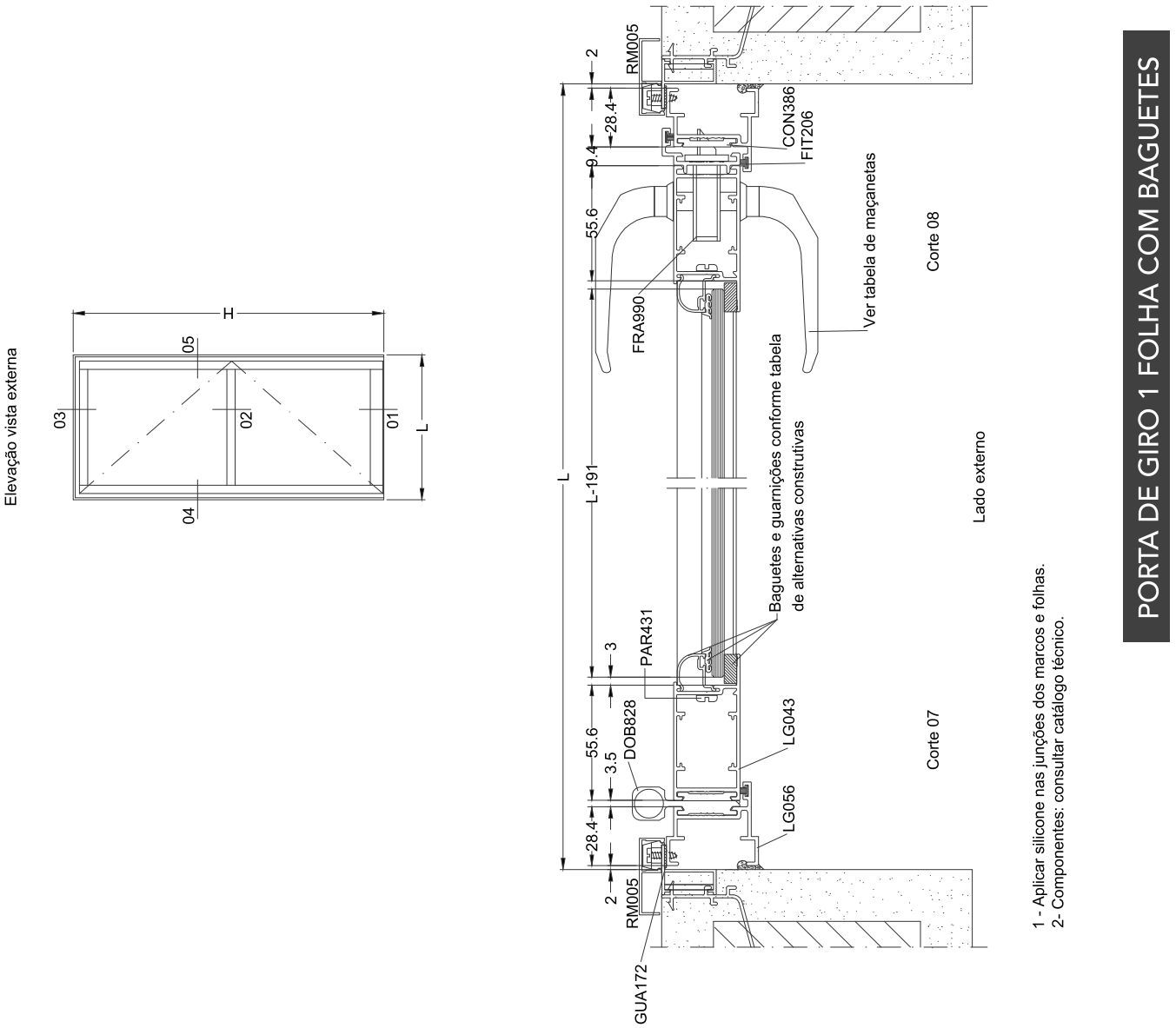


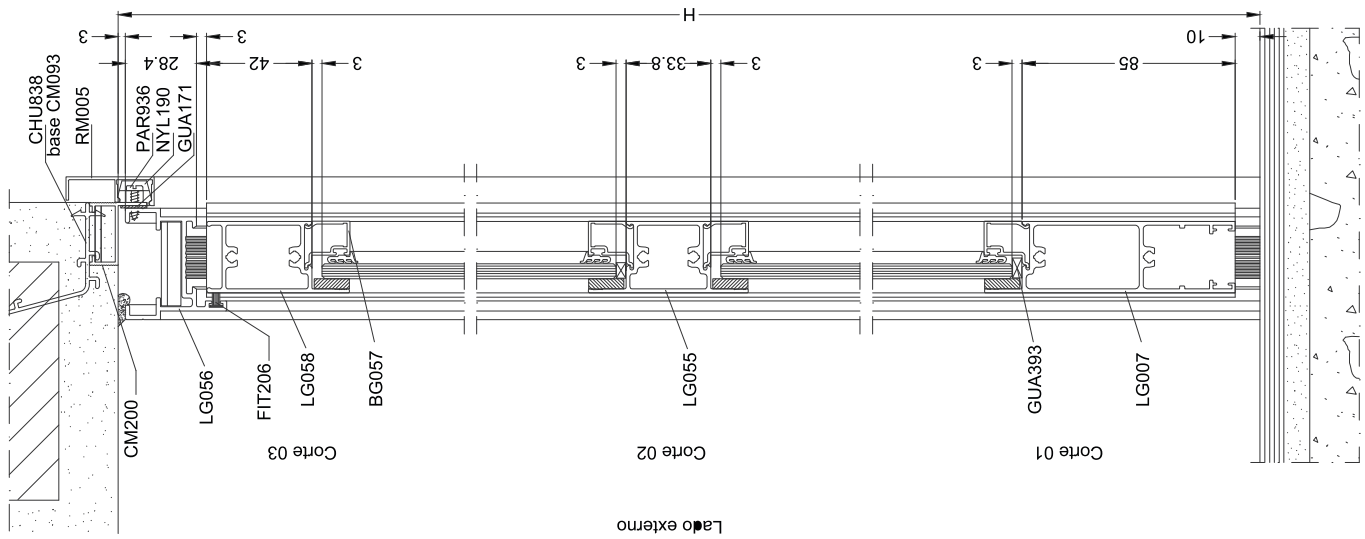
JANELA MAXIM-AR COM PEITORIL FIXO – MODULAR



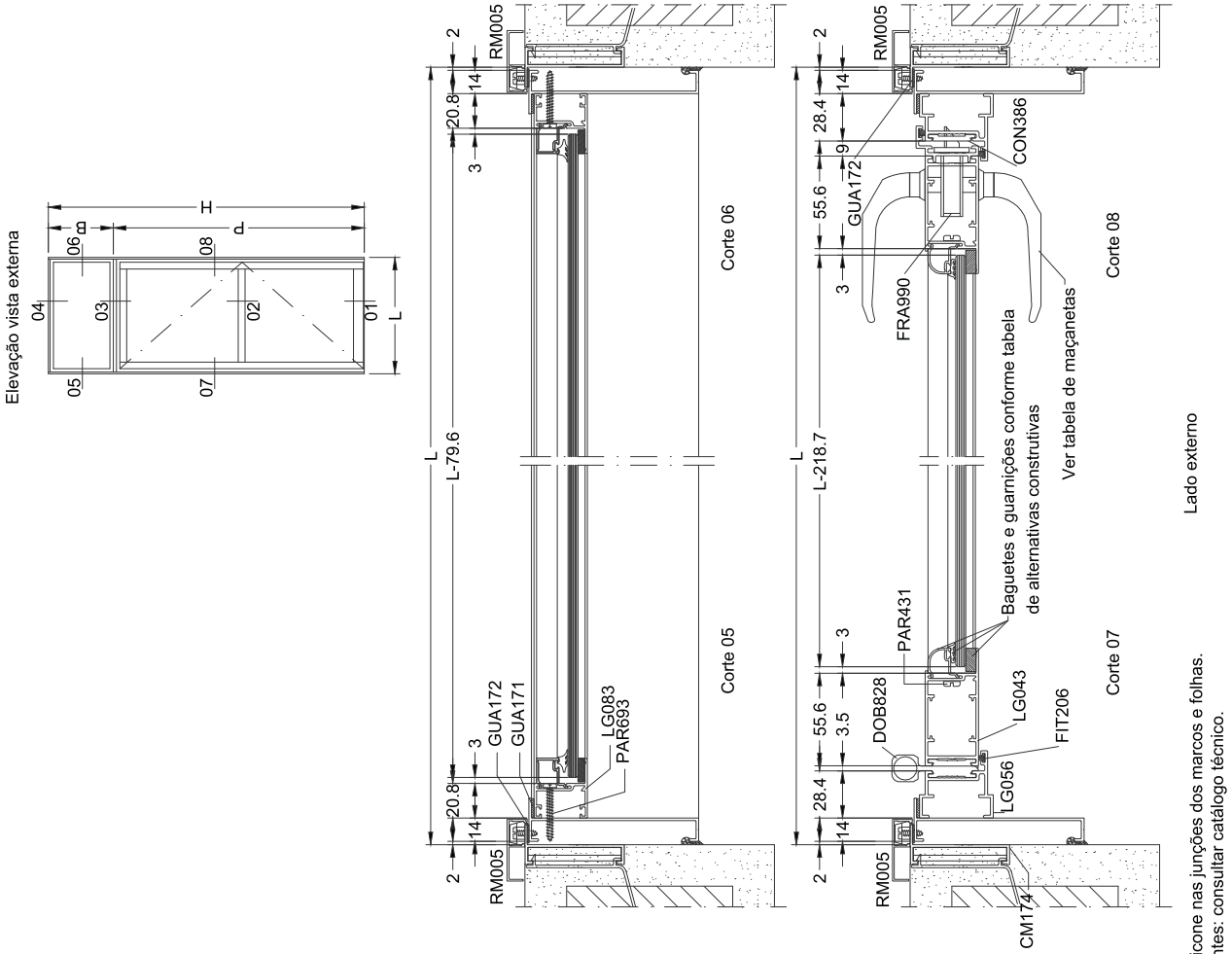
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

PORTA DE GIRO 1 FOLHA COM BAGUETES

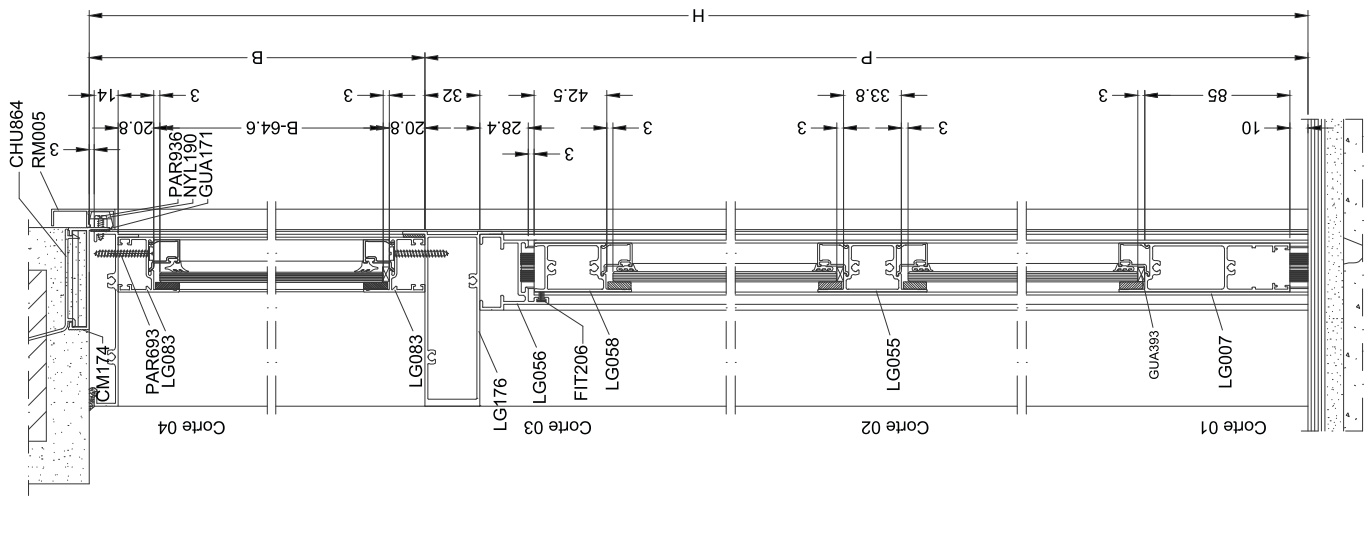




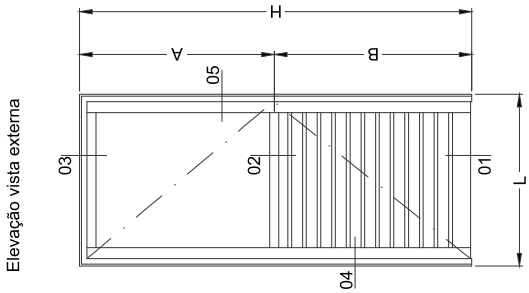
PORTA DE GIRO 1 FOLHA COM BANDEIRA FIXA E COM BAGUETES

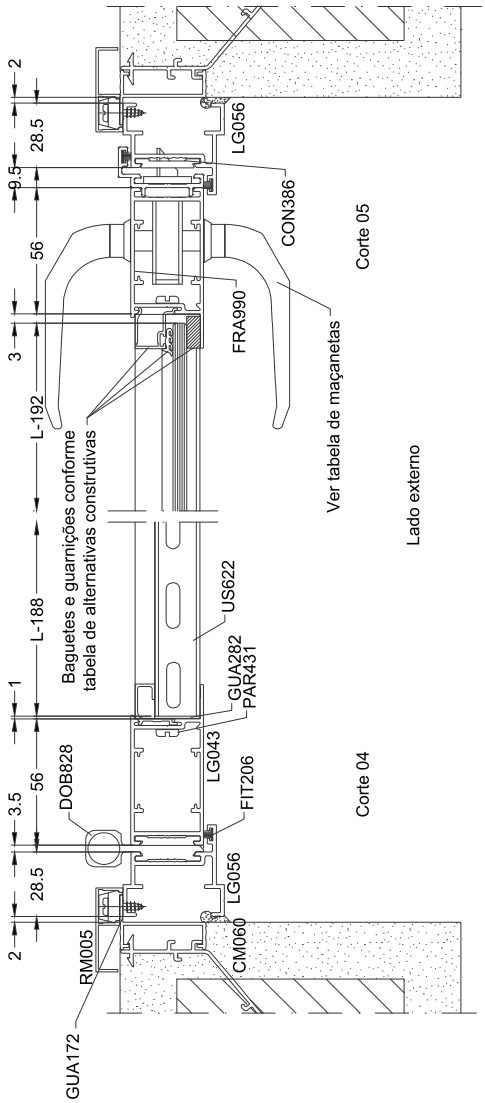


1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

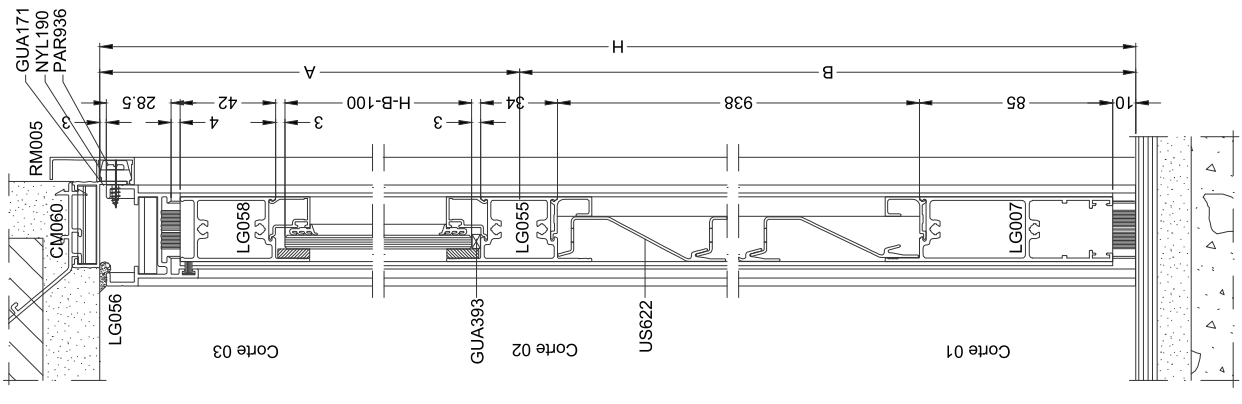


PORTA DE GIRO 1 FOLHA COM VENEZIANA E VIDRO

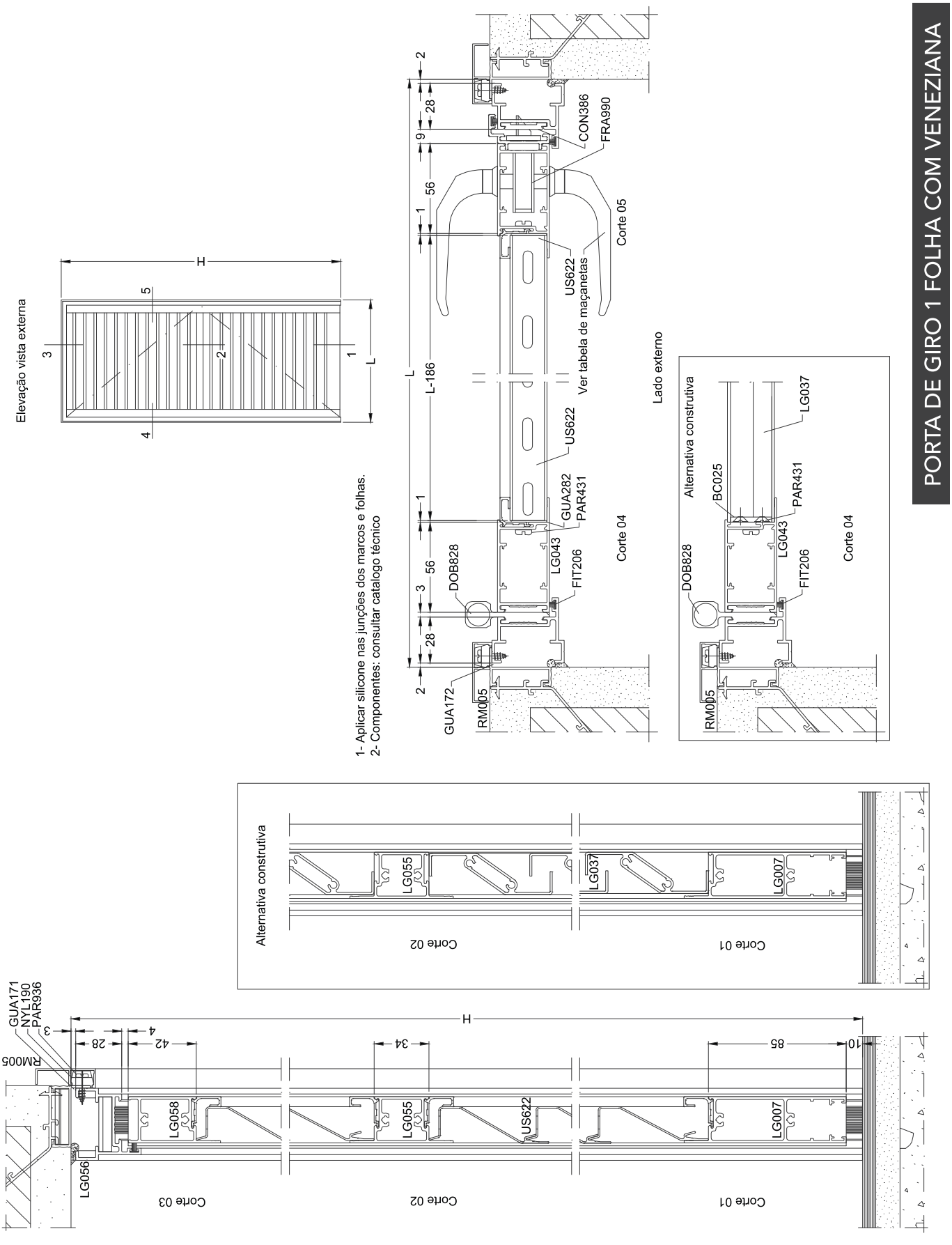




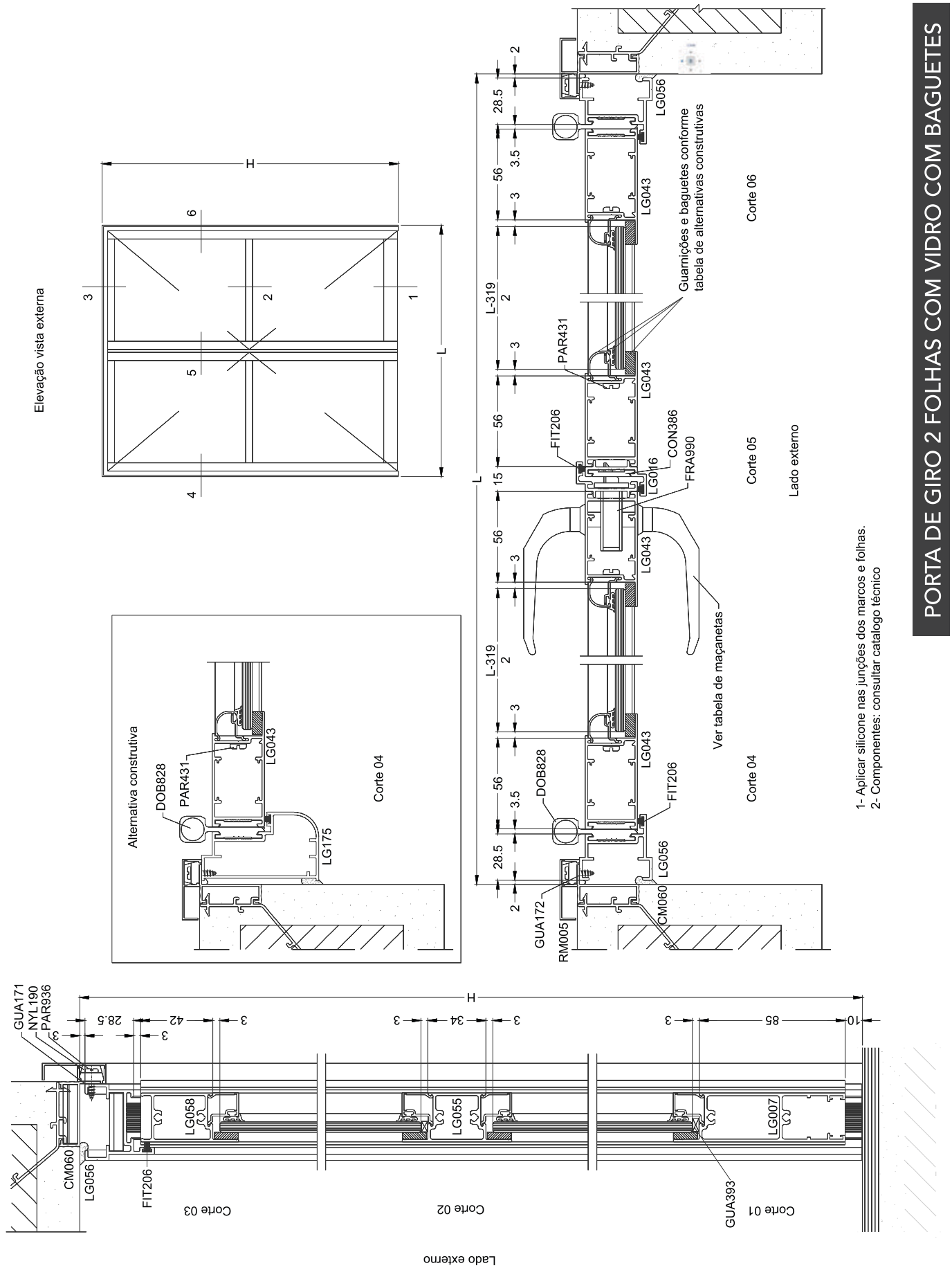
1 - Aplicar silicone nas junções dos marcos folhas.
2- Componentes: consultar catálogo técnico.



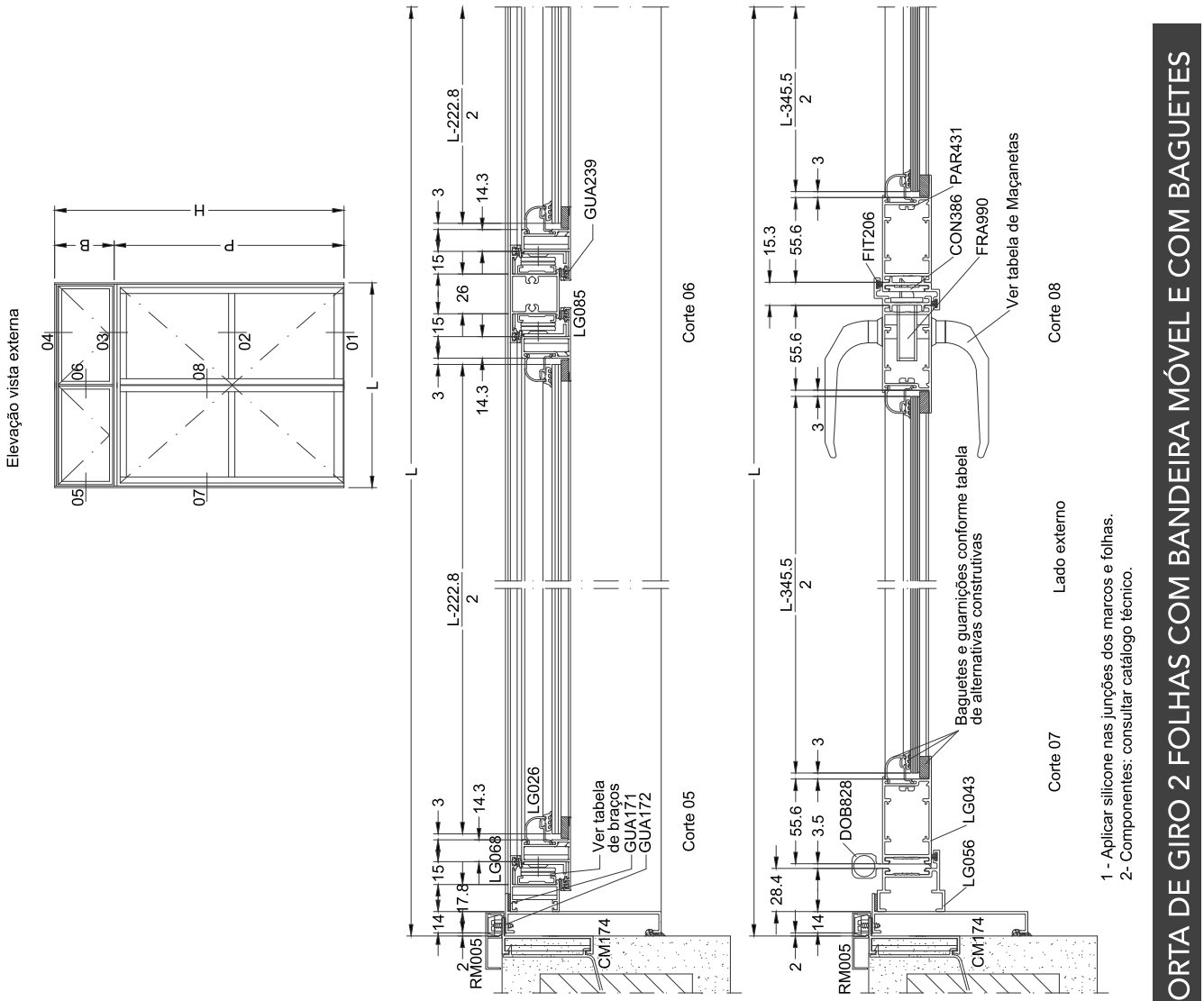
PORTA DE GIRO 1 FOLHA COM VENEZIANA

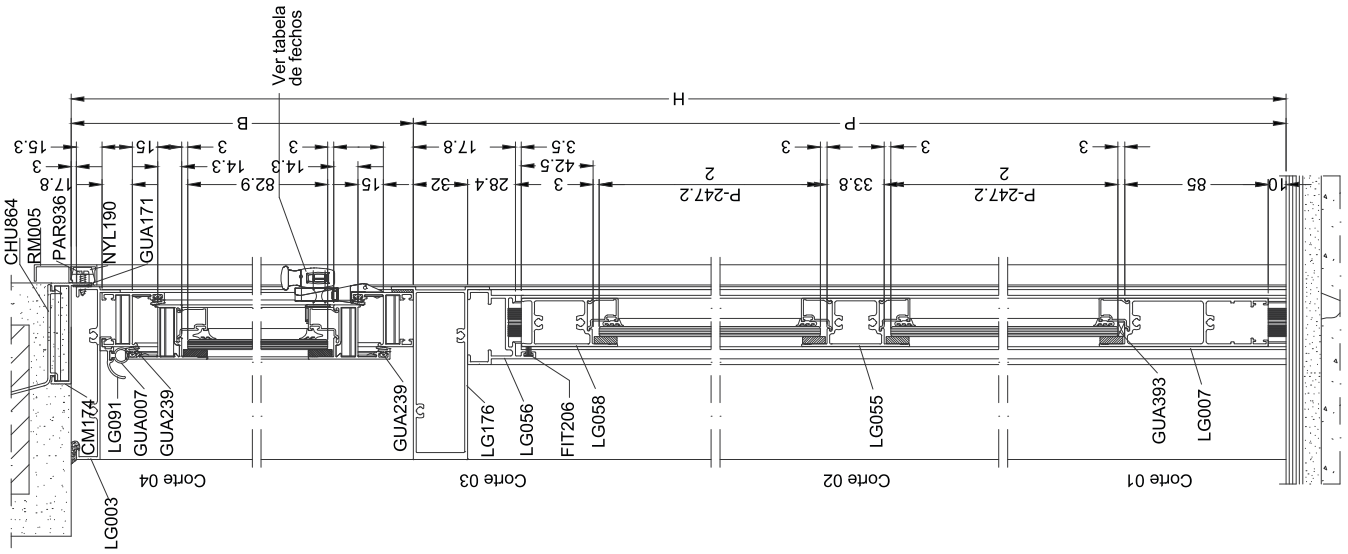


PORTA DE GIRO 2 FOLHAS COM VIDRO COM BAGUETES

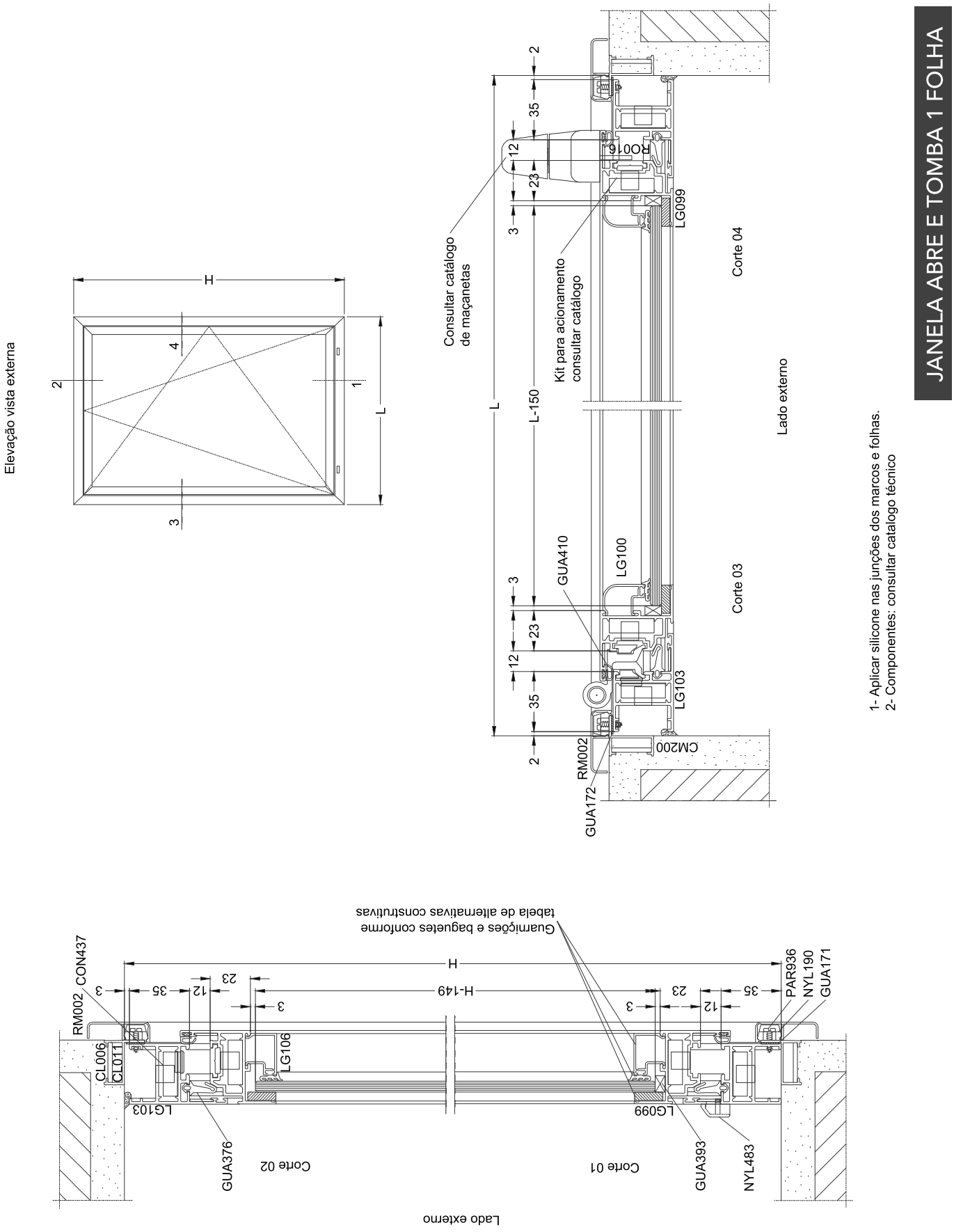


PORTA DE GIRO 2 FOLHAS COM BANDEIRA MÓVEL E COM BAGUETES

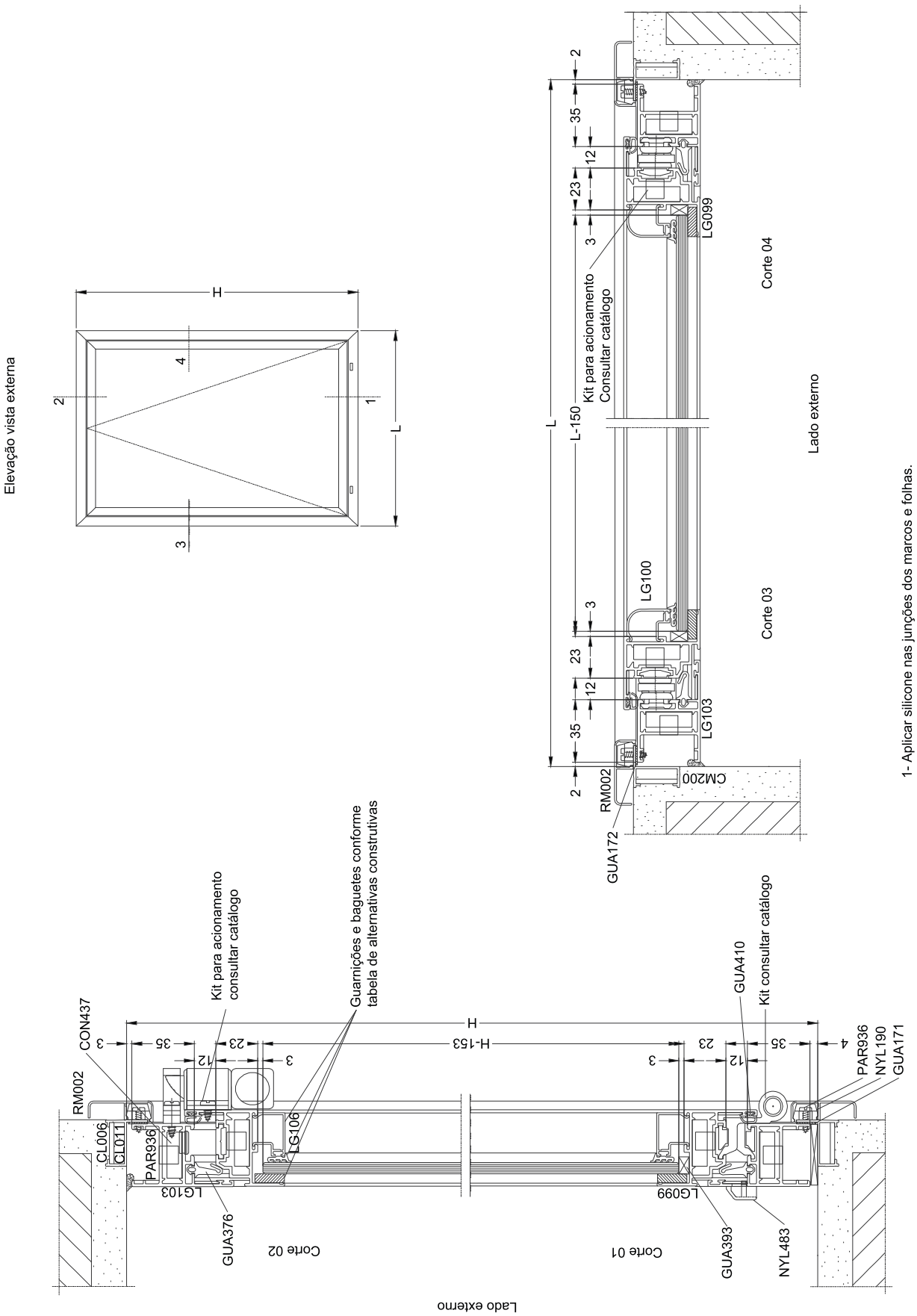




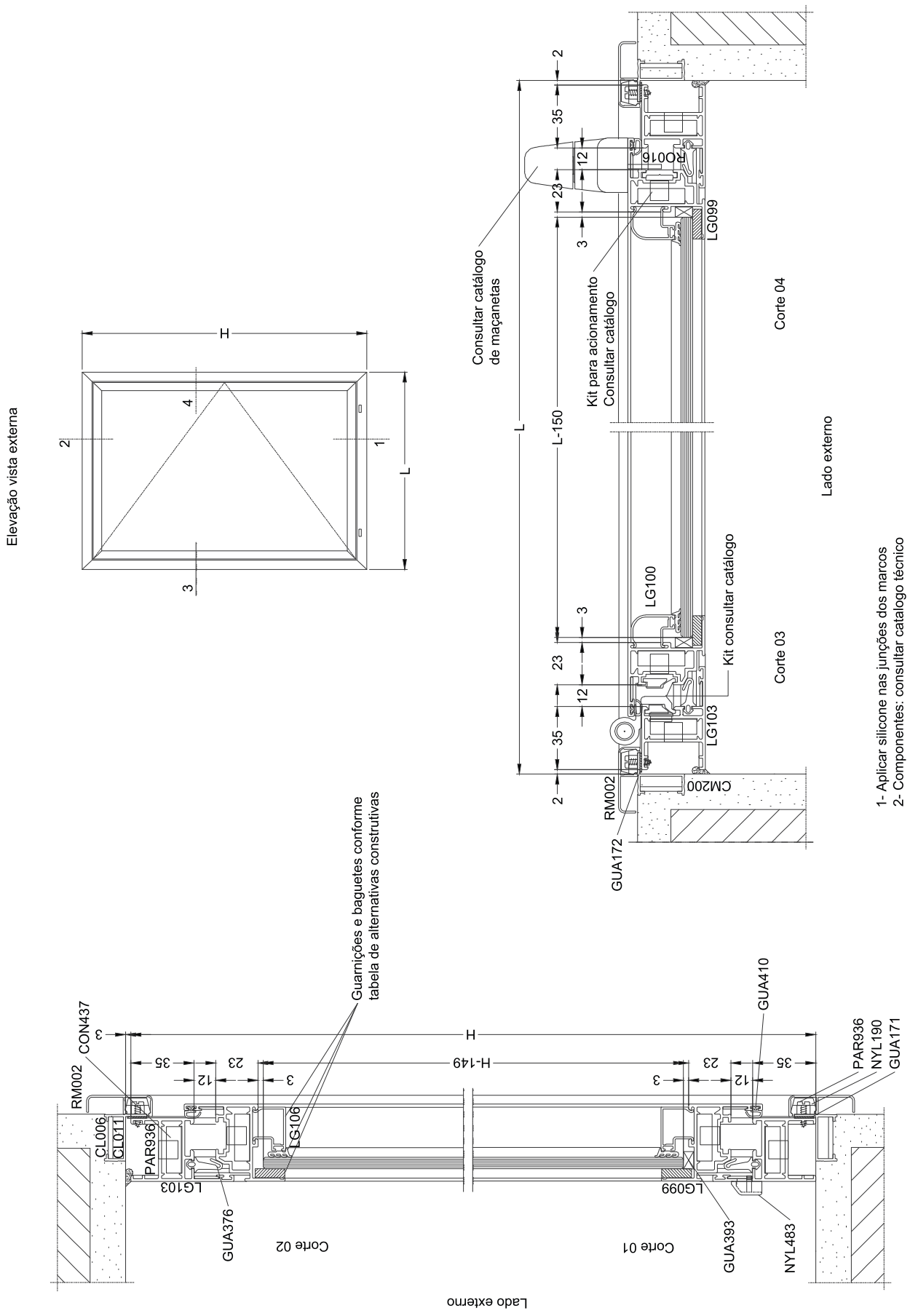
JANELA ABRE E TOMBA 1 FOLHA



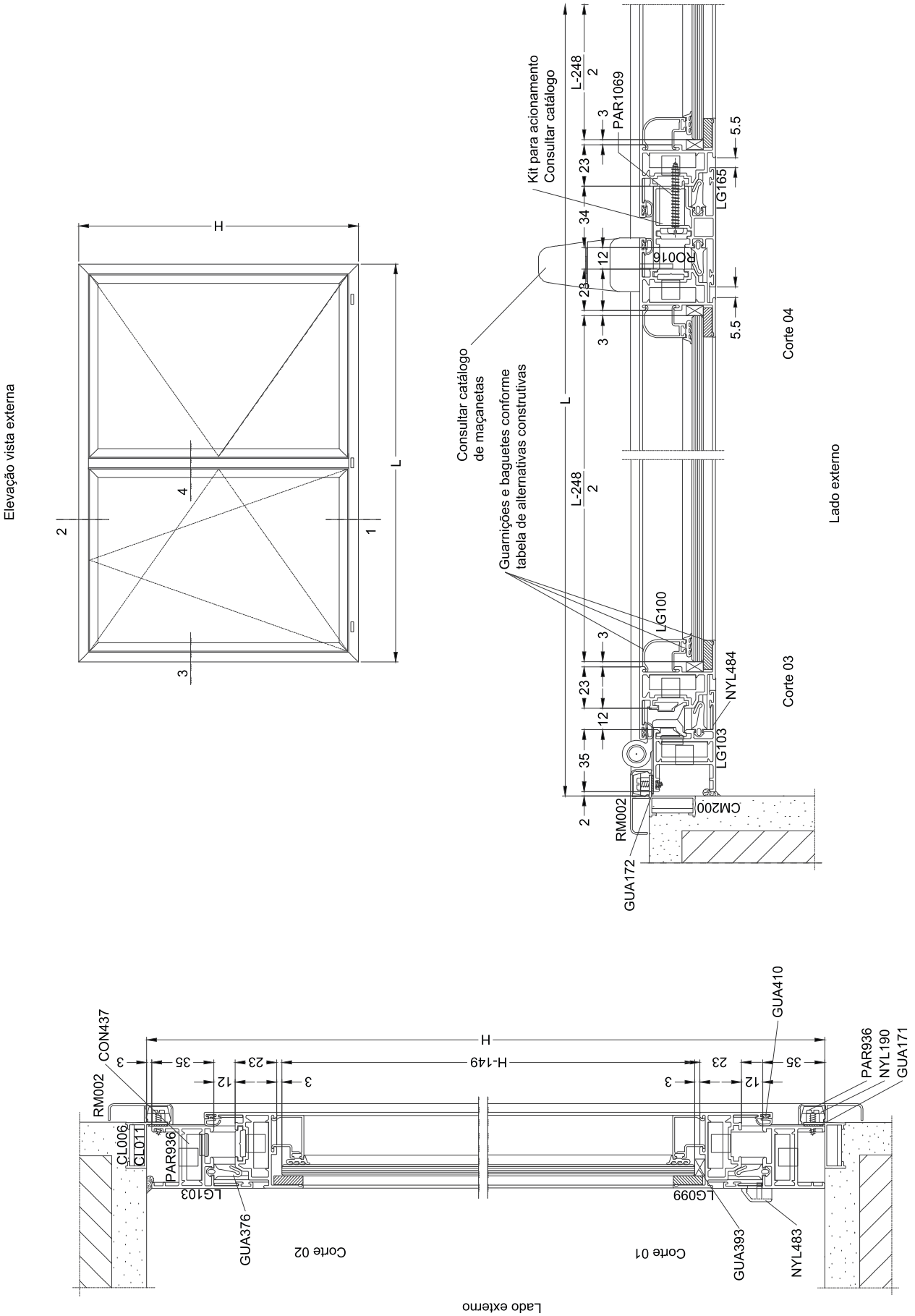
JANELA DE TOMBAR 1 FOLHA



JANELA DE GIRO 1 FOLHA



JANELA ABRE E TOMBA 2 FOLHAS



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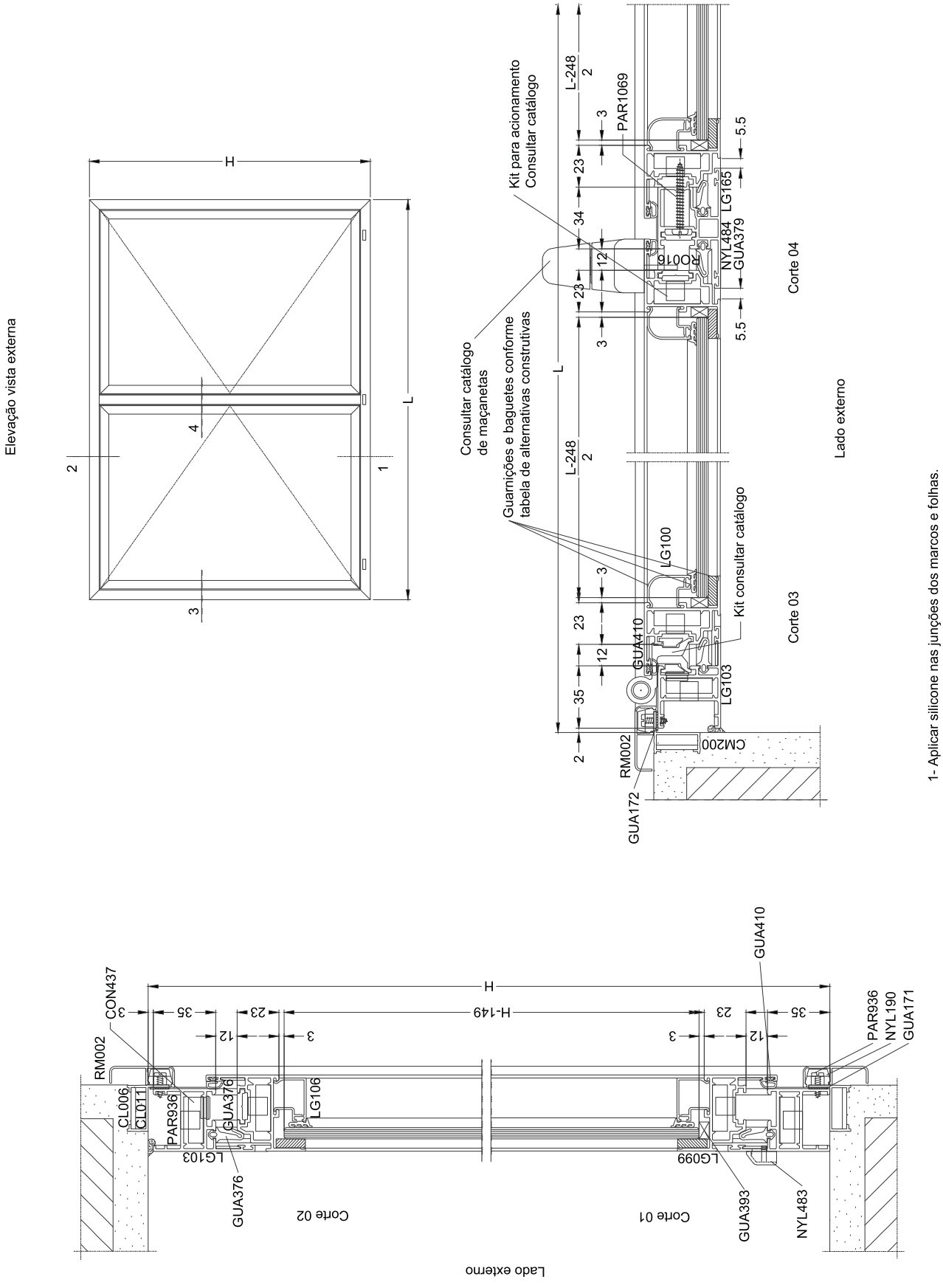
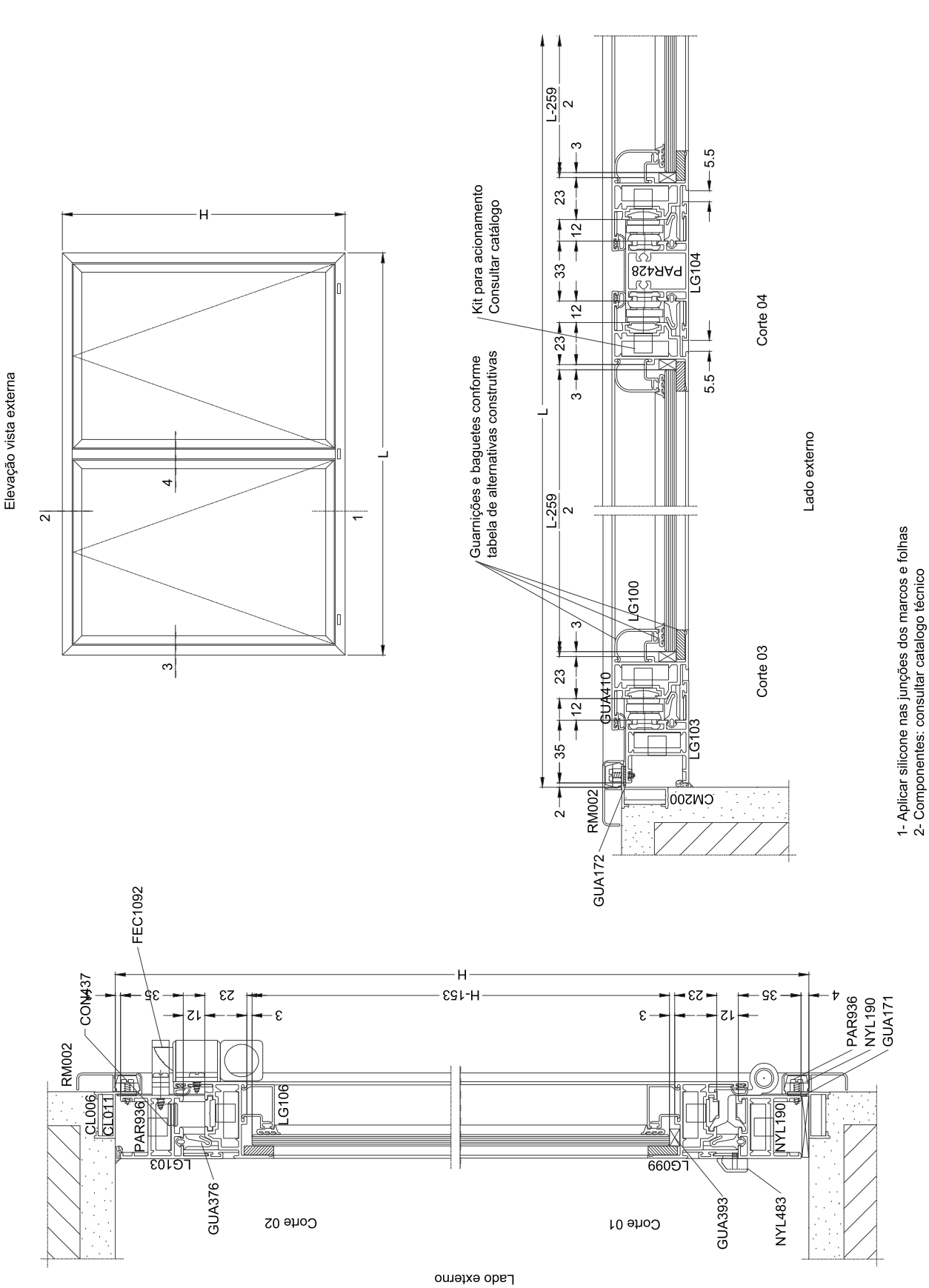
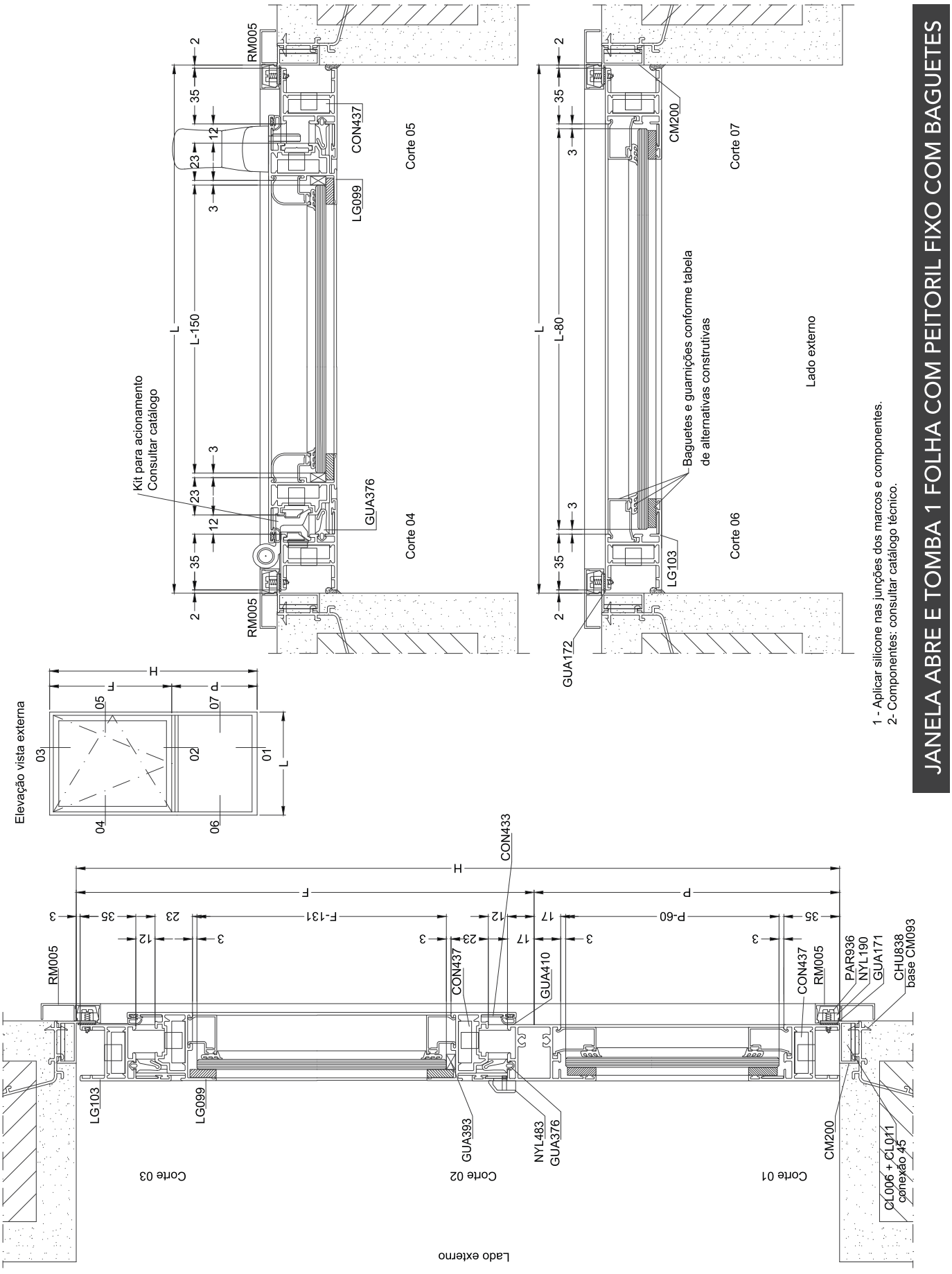


JANELA DE TOMBAR 2 FOLHAS

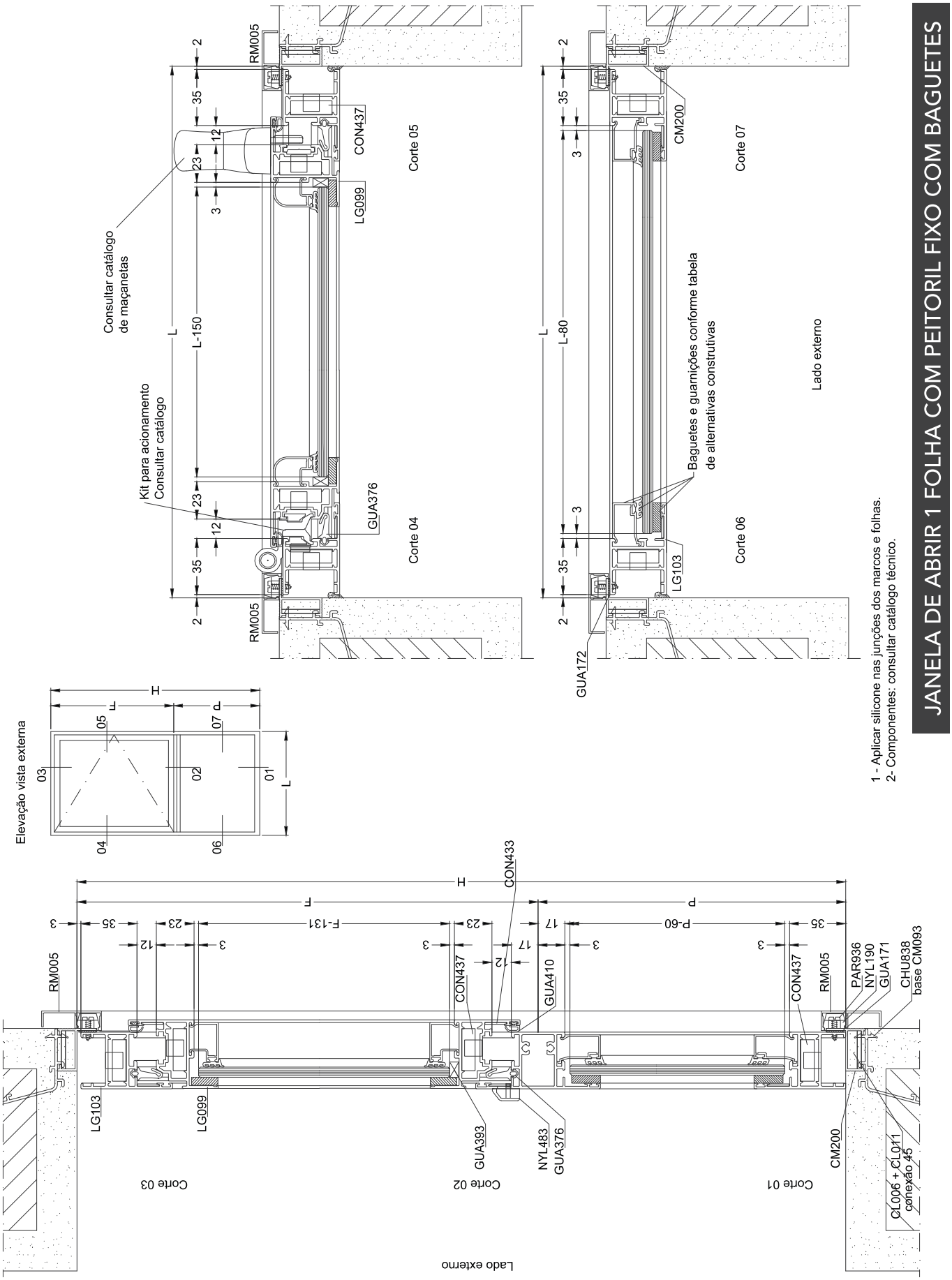


JANELA ABRE E TOMBA 1 FOLHA COM PEITORIL FIXO COM BAGUETES

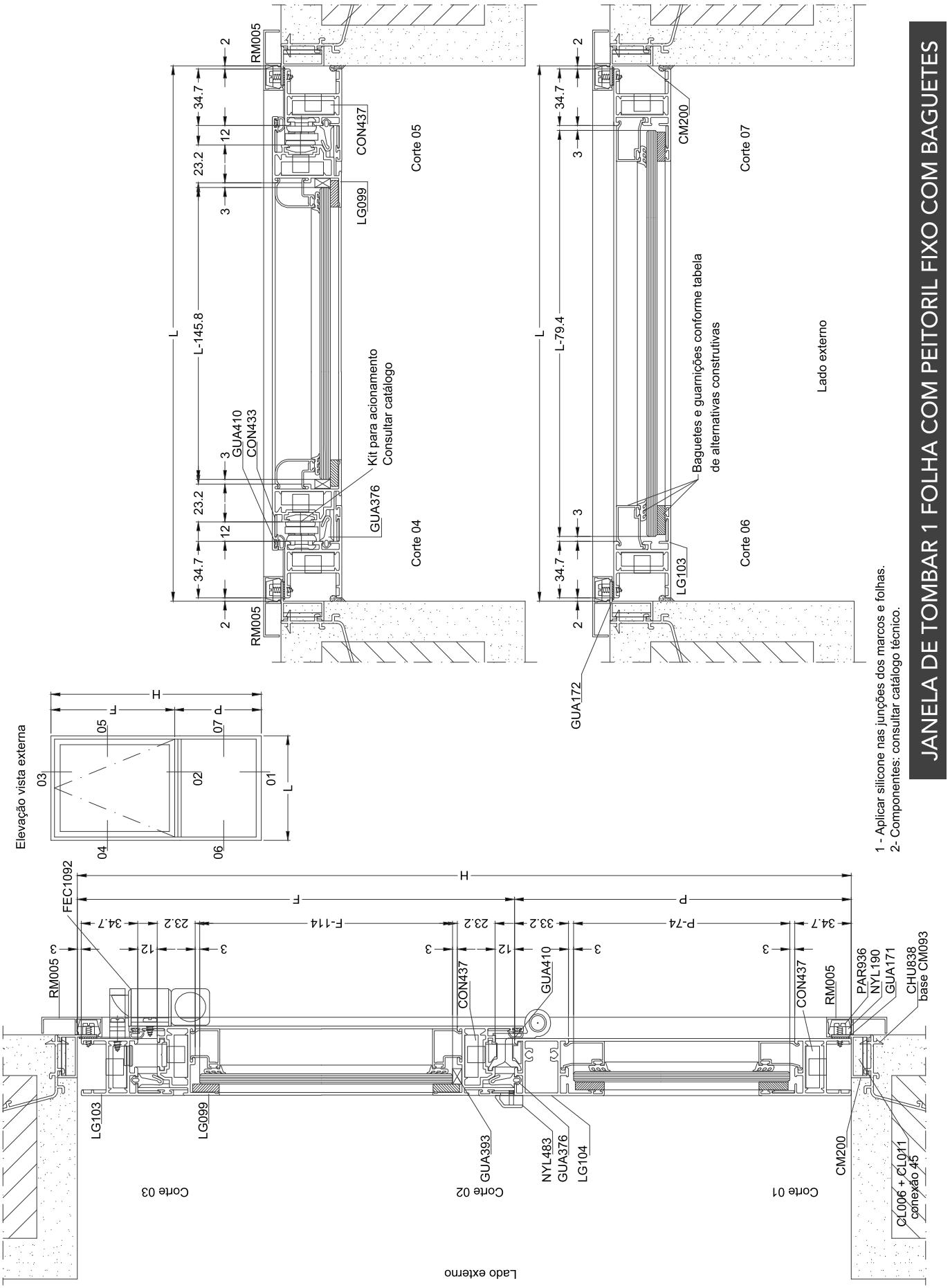


1 - Aplicar silicone nas junções dos marcos e componentes.
2- Componentes: consultar catálogo técnico.

JANELA DE ABRIR 1 FOLHA COM PEITORIL FIXO COM BAGUETES

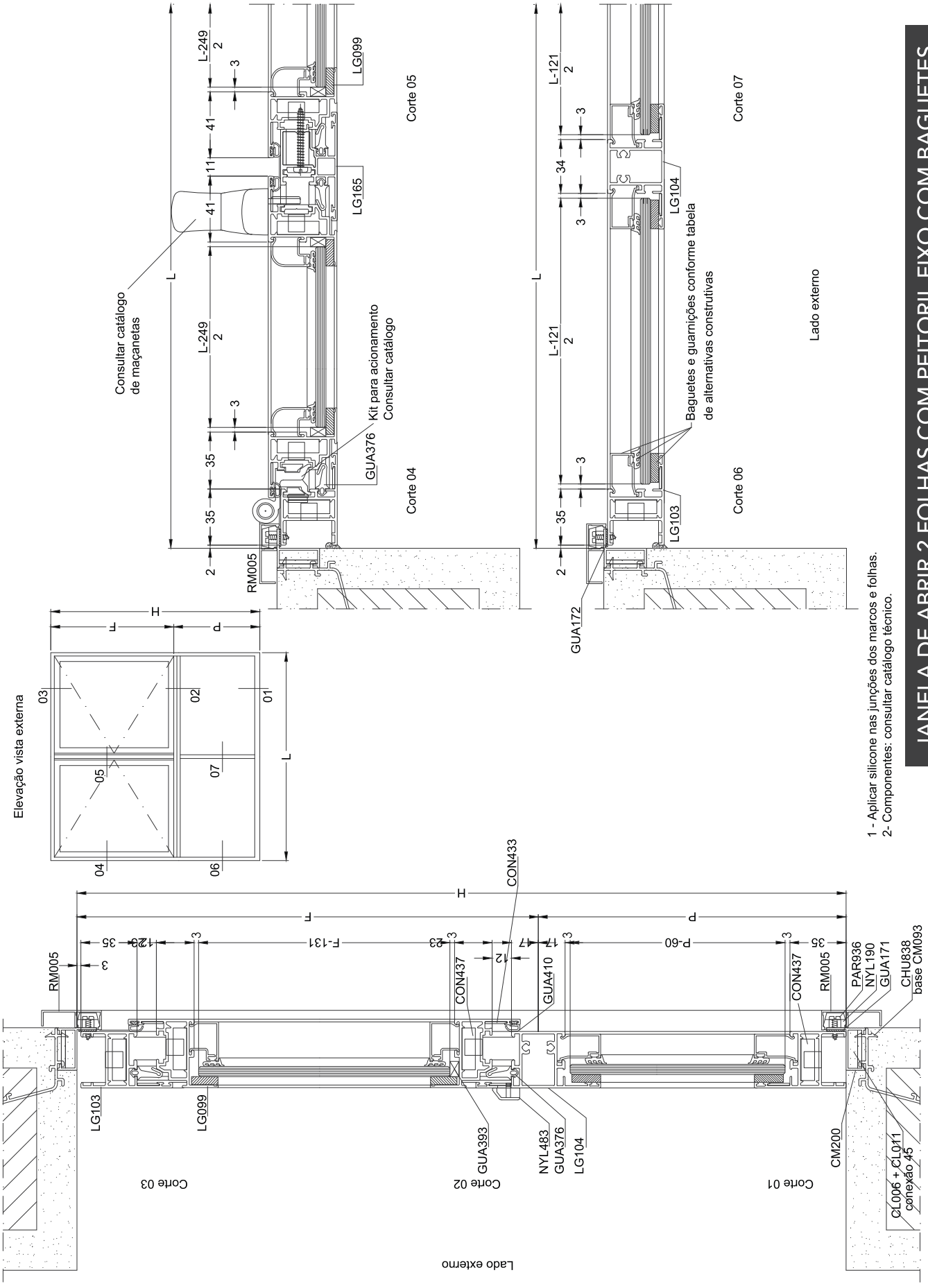


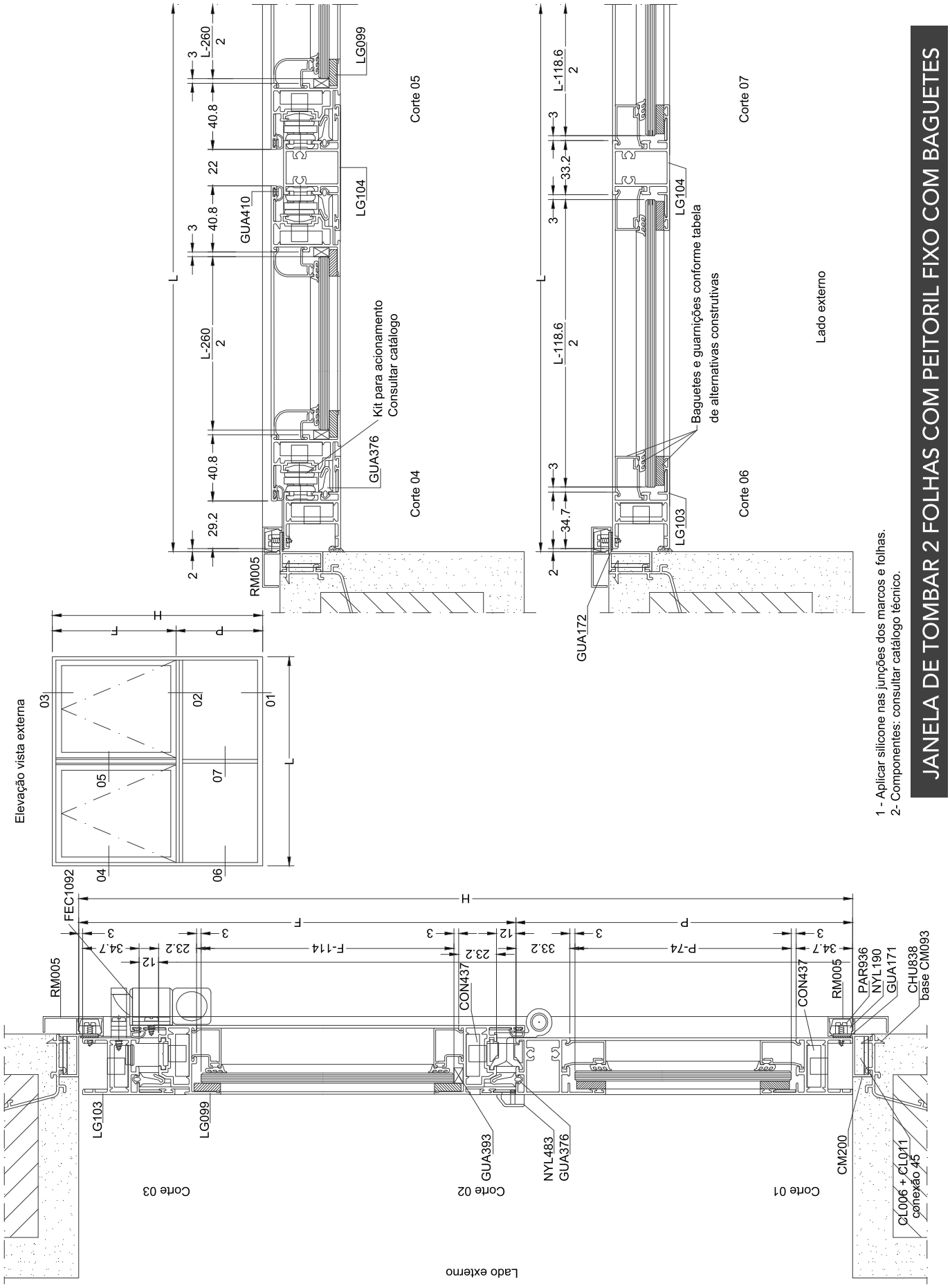
JANELA DE TOMBAR 1 FOLHA COM PEITORIL FIXO COM BAGUETES



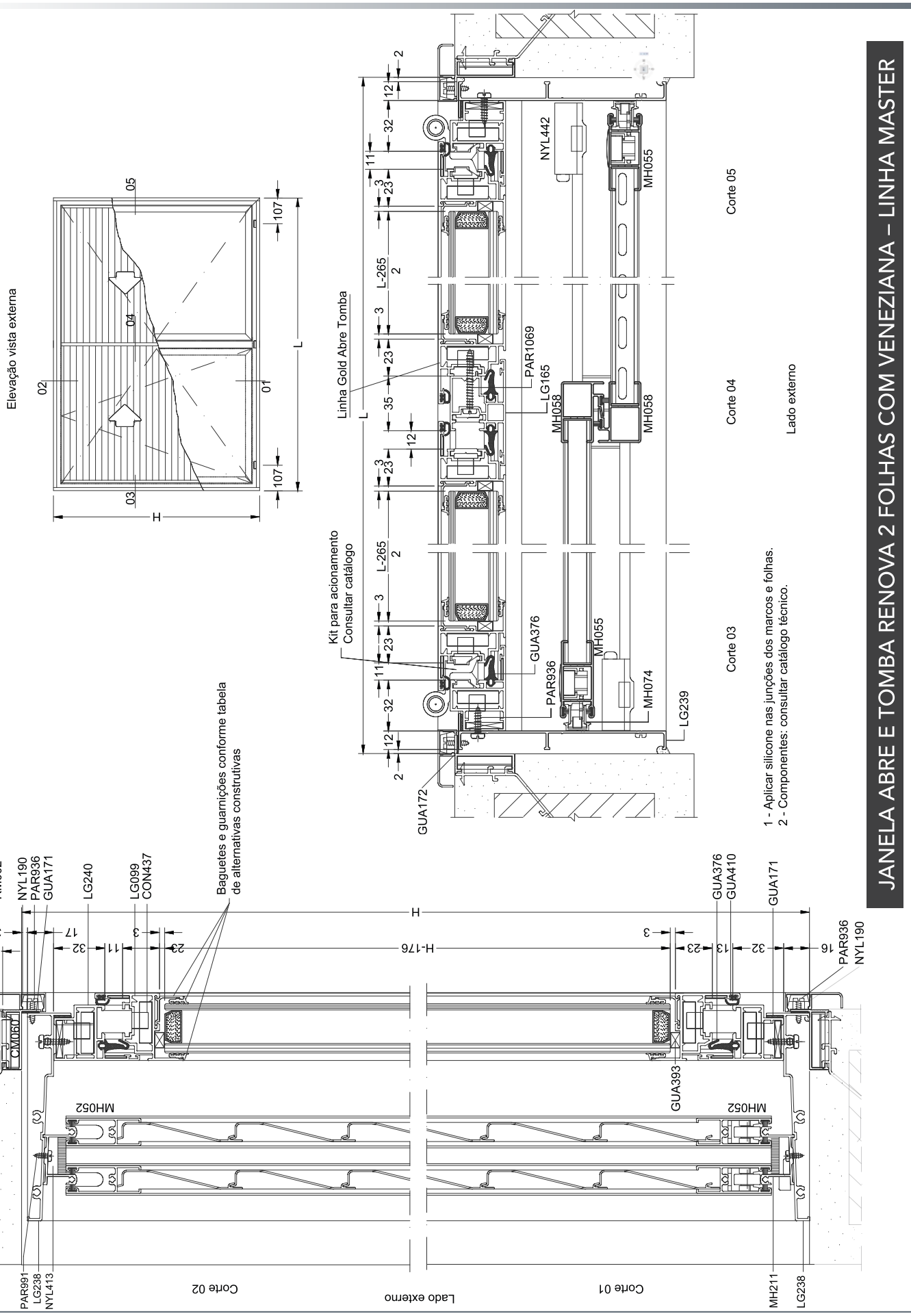
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.

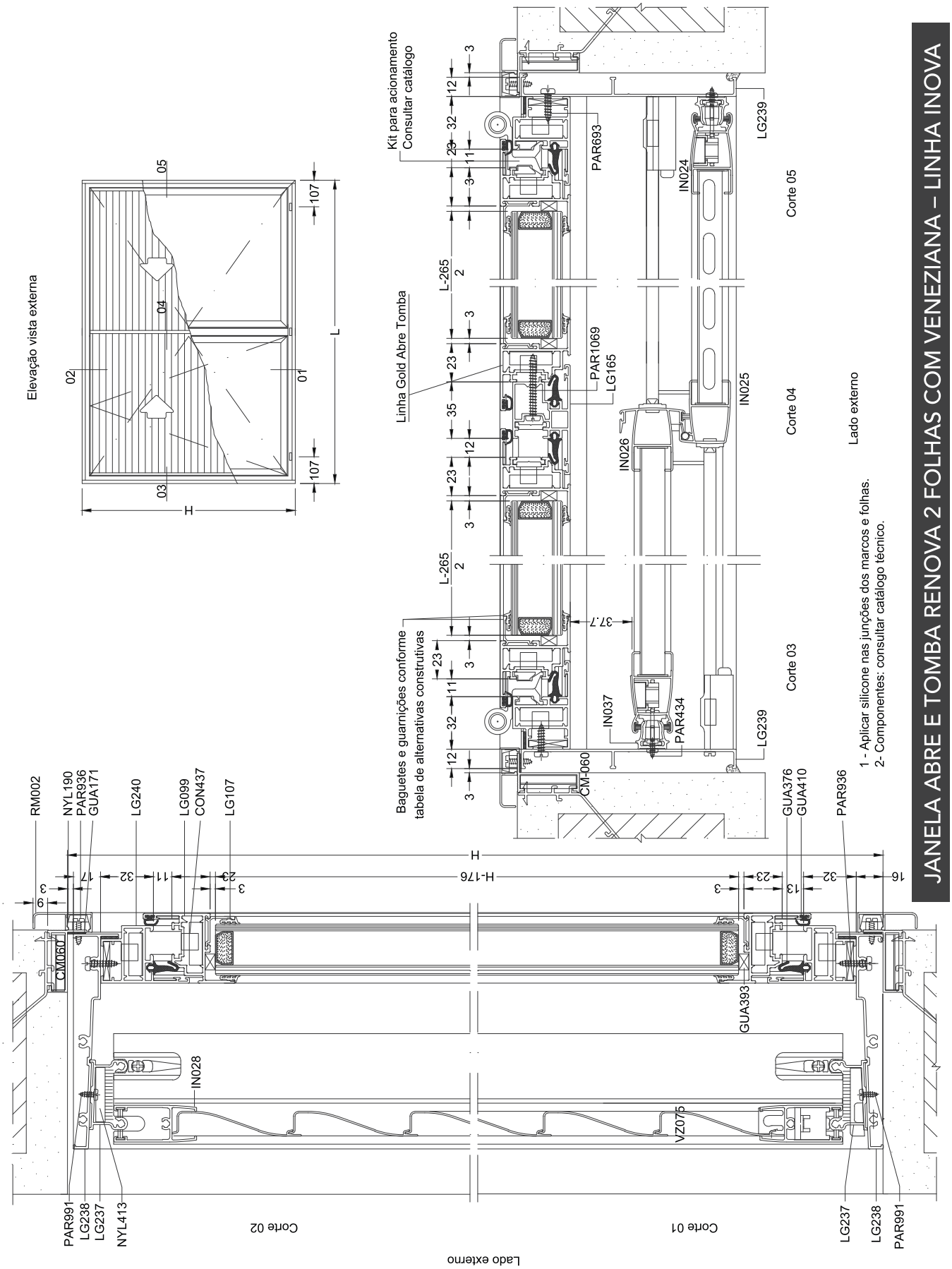
JANELA DE ABRIR 2 FOLHAS COM PEITORIL FIXO COM BAGUETES



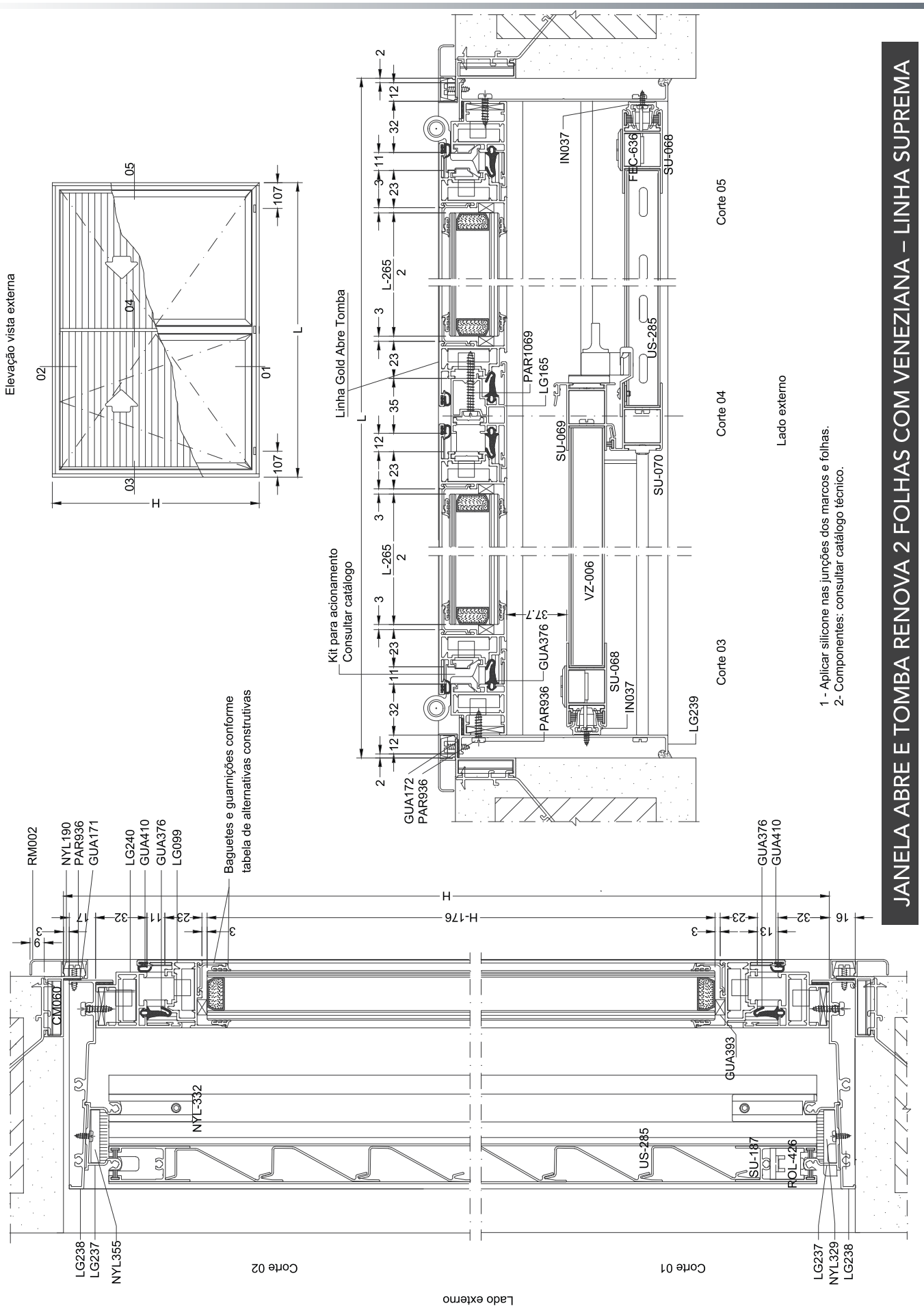

JANELA DE TOMBAR 2 FOLHAS COM PEITORIL FIXO COM BAGUETES
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.
Elevação vista externa
Corte 05
Corte 04
Corte 07
Corte 06
Lado externo
Baguetes e guarnições conforme tabela de alternativas construtivas
Kit para acionamento Consultar catálogo
LG099
LG104
LG103
GUA410
GUA376
GUA172
RM005
L-260
L-118.6
40.8
22
33.2
34.7
29.2
Corte 03
Corte 02
Corte 01
Lado externo
FEC1092
CON437
GUA393
NYL483
CM200
PAR936
NYL190
GUA171
CHU838
base CM093
CL006 + CL011
conexão 45

JANELA ABRE E TOMBA RENOVA 2 FOLHAS COM VENEZIANA – LINHA MASTER

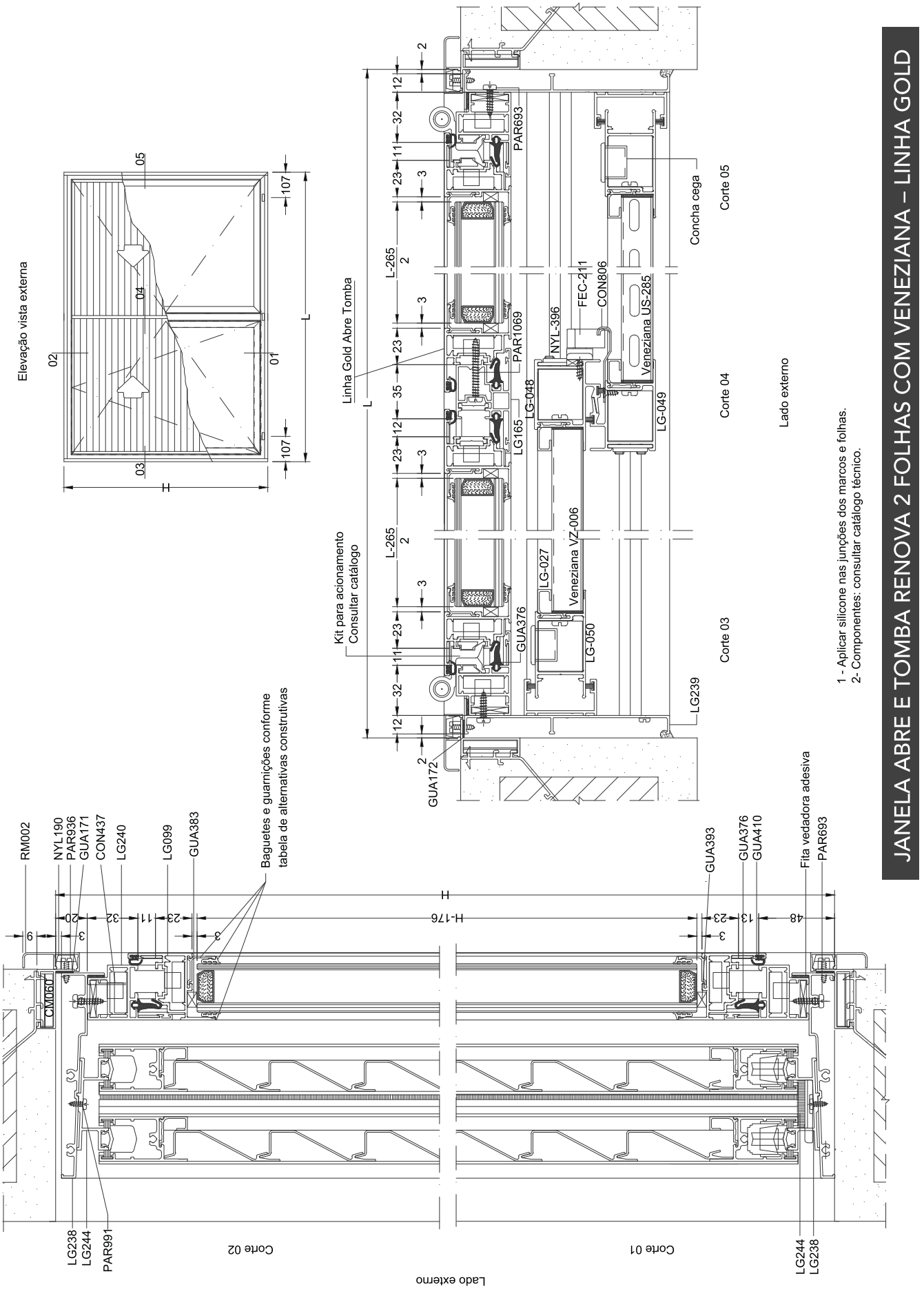



JANELA ABRE E TOMBA RENOVA 2 FOLHAS COM VENEZIANA – LINHA INOVA
1 - Aplicar silicone nas junções dos marcos e folhas.
2- Componentes: consultar catálogo técnico.
Elevação vista externa
Kit para acionamento
Consultar catálogo
Linha Gold Abre Tomba
Baguetes e guarnições conforme
tabela de alternativas construtivas
Corte 05
Corte 04
Corte 03
Lado externo
Corte 02
Corte 01
Lado externo
PAR693
LG239
IN024
IN025
IN026
PAR1069
LG165
IN037
PAR434
CM-060
GUA376
GUA410
PAR936
GUA393
IN028
VZ075
RM002
NYL190
PAR936
GUA171
LG240
LG099
CON437
LG107
CM060
PAR991
LG238
LG237
NYL413
LG237
LG238
PAR991

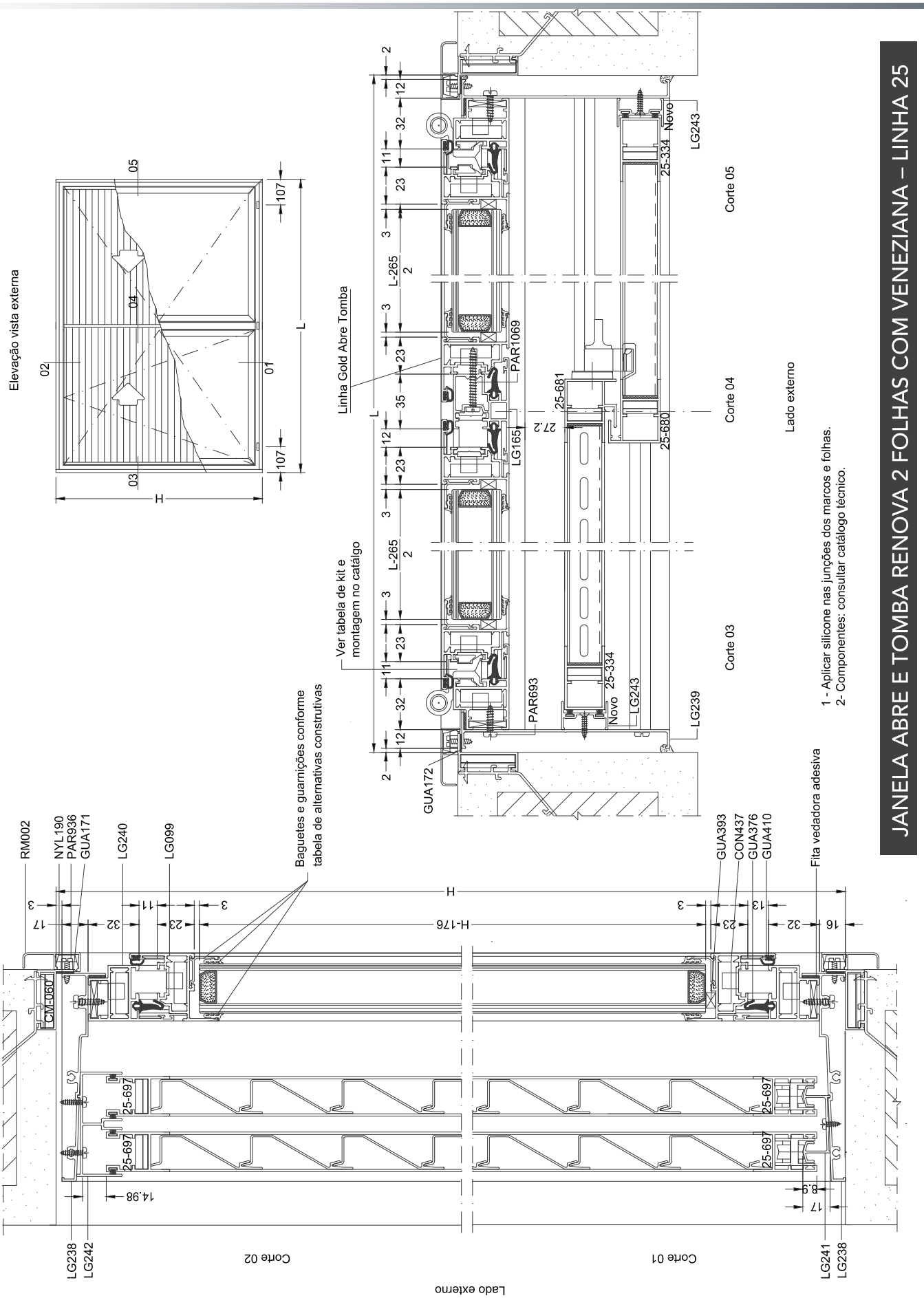
JANELA ABRE E TOMBA RENOVA 2 FOLHAS COM VENEZIANA – LINHA SUPREMA



JANELA ABRE E TOMBA RENOVA 2 FOLHAS COM VENEZIANA – LINHA GOLD



JANELA ABRE E TOMBA RENOVA 2 FOLHAS COM VENEZIANA – LINHA 25



Histórico de Atualização

Descrição	Páginas	Data da Revisão
NOVA VERSÃO CATÁLOGO	TODAS	SETEMBRO/2016
ATUALIZAÇÃO LOGOTIPOS	TODAS	AGOSTO/2017
ATUALIZAÇÃO VISUAL	TODAS	JULHO/2018

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