

LAGUNA 25
SISTEMA DE ESQUADRIAS

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NOSSA HISTÓRIA



Foi em 1895, que a família Fretta ingressou na atividade comercial, ao fundar na localidade de Azambuja - SC a Casas Fretta. Mais de 120 anos se passaram desde então, e sua tradição ultrapassou gerações, tornando a empresa uma das mais antigas do estado de Santa Catarina, sob o comando dos descendentes de seus fundadores.

EXPERIÊNCIA E CONSTANTE EVOLUÇÃO

Tanto tempo de experiência conferiu ao grupo Fretta um legado de credibilidade, resultando na consolidação da marca, sinônimo de solidez e excelência na prestação de serviços.

A tradição nos negócios, aprimorada com o tempo, deu vazão a novos empreendimentos.

O grupo Fretta diversificou seu ramo de atuação e hoje, além da Casas Fretta, é composto pela Fretta Construções, Invest Capital e a mais recente integrante do grupo: Aludim Aluminum Technology.

Especializada na extrusão de alumínio para a construção civil e para a atividade industrial, a Aludim traz em seu DNA os mesmos valores do grupo Fretta, compartilhando da paixão pela prestação de serviços com alto padrão de qualidade.

O Grupo Fretta cresceu e está cada vez mais presente na vida das pessoas, conservando os ensinamentos de seus fundadores: ajudar a transformar o mundo, investindo no ser humano e trabalhando para fazer sua vida melhor!



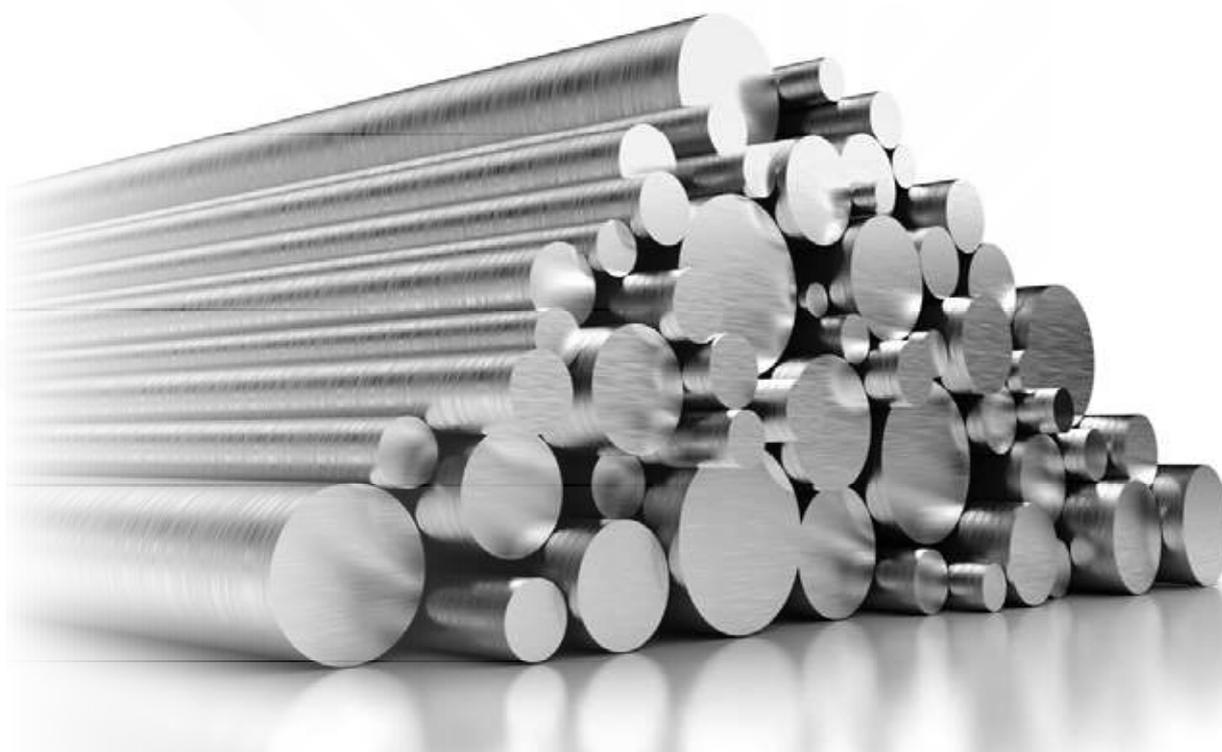
Azambuja, 1895. Primeira casa de comércio da família Fretta.

ALUMÍNIO PRESENTE EM CADA DETALHE DA VIDA MODERNA

Beleza, leveza, durabilidade, moldabilidade, alta resistência, inclusive à corrosão, são algumas das qualidades que tornam o alumínio essencial à vida moderna. Considerado metal semiprecioso, no século XIX o alumínio chegou a ser mais caro do que o ouro, no entanto, a produção em larga escala tornou o preço acessível, ampliando sua utilização.

AQUI, O ALUMÍNIO É BEM TRATADO

A Aludim mantém parcerias com os mais modernos e equipados complexos industriais de tratamento de superfície de perfis extrudados de alumínio, empresas que dispõem de uma linha completa de pintura e de anodização. Tudo isso confere aos produtos Aludim alta resistência, qualidade estética, diversidade de cores, texturas e acabamentos, atributos que se adaptam às necessidades e aos padrões de seu projeto, agregando valor ao seu produto.



SUSTENTABILIDADE

Atualmente, o alumínio está presente em diversos segmentos, contribuindo, inclusive para a preservação do meio ambiente, pois, além de ser o metal ideal para o desenvolvimento de produtos que permitem a redução da emissão de gases poluentes, cerca de 75% de todo o alumínio produzido, até hoje, ainda está em uso. Como um material infinitamente reciclável, mesmo depois de décadas de vida útil, o alumínio pode ser reaproveitado, gerando grande economia de recursos financeiros e preservação dos recursos naturais.

RESPONSABILIDADE SOCIAL

A Aludim escreve diariamente uma história de inovação e compromisso com a sustentabilidade. A preocupação com aspectos econômicos, sociais e ambientais faz parte dos valores da empresa, por isso a companhia busca, constantemente, o aumento de sua eficiência operacional, para diminuir os desperdícios do processo produtivo. Para tanto, desenvolve projetos de conservação de recursos e ecoeficiência, focados na redução de emissões atmosféricas, geração de resíduos sólidos industriais e do consumo de água.

A Associação Brasileira de Normas Técnicas (ABNT) é o Foro Nacional de Normalização. As Normas Brasileiras, cujo conteúdo é de responsabilidade dos Comitês Brasileiros (ABNT/CB), dos Organismos de Normalização Setorial (ABNT/ONS) e das Comissões de Estudos Especiais (ABNT/CEE), são elaboradas por Comissões de Estudo (CE), formadas pelas partes interessadas no tema objetivo da normalização.

Referências Normativas:

- ABNT - NBR 15.575 - Desempenho - Edifícios habitacionais
- ABNT - NBR 10.821 - Esquadrias externas para edificações
- ABNT - NBR 6.123 - Forças devidas ao vento em edificações - Procedimento
- ABNT - NBR 7.199 - Projeto, execução e aplicação dos vidros na construção civil
- ABNT - NBR 7.000 - Alumínio e suas ligas - Produtos extrudados - Propriedades mecânicas
- ABNT - NBR 8.116 - Alumínio e suas ligas - Produtos extrudados - Tolerâncias dimensionais
- ABNT - NBR 15.969 - Componentes para esquadrias

ABNT NBR 7.000 - Alumínio e suas ligas

Esta Norma especifica as propriedades mecânicas dos perfis de alumínio e suas ligas, determinados nesse catálogo.

Tabela de propriedades físicas e mecânicas das ligas recomendadas.

Liga - Têmpera	Peso Específico (Kg/m)	Módulo Young (Elasticidade) (Mpa)	Temperatura De Fusão (°C)	Coefficiente De Expansão Linear (L/°C)	(LRT) Limite De Resistência a Tração (Mpa)	Limite Convencional De Escoamento (Mpa)
6060 - T5	2,71	70.000	600 - 650	23x10 ⁻⁶	150 (219)	110 (189)
6063 - T5	2,71	70.000	600 - 650	23x10 ⁻⁶	150 (219)	110 (189)
6063 - T6	2,71	70.000	600 - 650	24x10 ⁻⁶	205 (235)	170 (213)

Observações:

Dados de tensão expressos na unidade MEGAPASCAL (Mpa), equivale a 1 N/mm².

A medida da unidade Kgf/mm² é obtida dividindo-se o valor indicado por 9,807.

Os valores sem parênteses são os mínimos especificados e valores entre parênteses são os típicos esperados e referem-se aos produtos mais utilizados nas ligas/têmperas indicadas.

As características e as propriedades mecânicas das têmperas com alívio de tensão podem diferir daquelas correspondentes as têmperas básicas do produto.

Norma ABNT NBR 10.821

A norma ABNT NBR 10.821 estabelece os parâmetros mínimos de desempenho exigidos de esquadrias para instalações em edifícios.

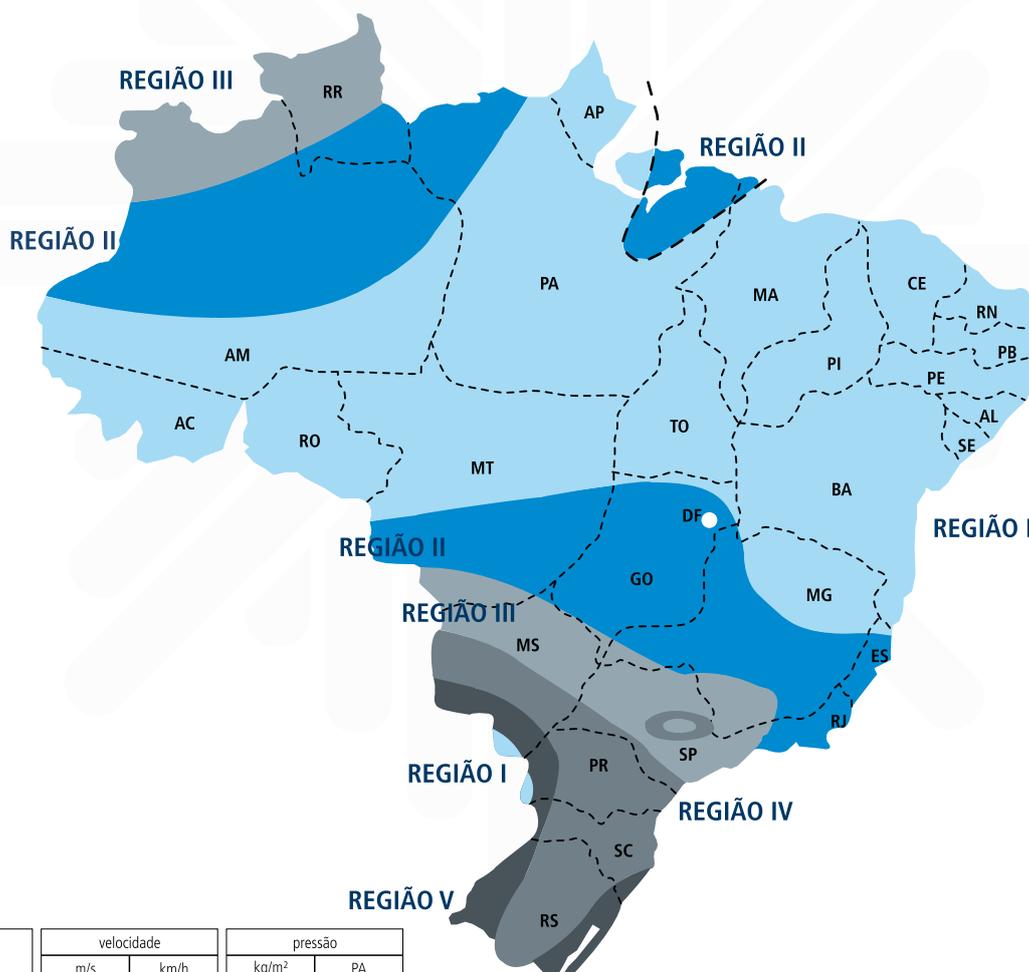
Ela trata dos seguintes requisitos para aplicações externas:

- Permeabilidade ao ar;
- Estanqueidade à água;
- Resistência as cargas uniformemente distribuídas;
- Resistência as operações de manuseio;

O atendimento das exigências estabelecidas pela norma é verificado através de ensaios específicos realizados em laboratórios especializados.

As exigências variam de acordo com a localização e algumas outras características da obra, como altura, a topografia, entre outras.

Figura 1 - Gráfico de isopletas de velocidade básica dos ventos no Brasil - ABNT 6123



Região	velocidade		pressão	
	m/s	km/h	kg/m ²	PA
I	30	108	77	756
II	35	126	105	1030
III	40	144	137	1345
IV	45	162	173	1698
V	50	180	214	2100

A velocidade do vento é o parâmetro inicial para calcularmos a pressão exercida o local, levando em conta a altura da obra, rugosidade do terreno, localização, entre outras características. Para facilitar a NBR 10821 trás uma tabela (tabela 1), que determina as pressões de ensaio, segurança e de água, válida para edifícios de até 30 pavimentos ou 90 metros de altura em todas as regiões do Brasil.

Os requisitos de classificação das esquadrias instaladas na posição vertical, em edifícios de uso residencial ou comercial, são no mínimo estabelecidos para as cinco classes em relação ao número de pavimentos e a altura da edificação. As pressões de ensaios a serem adotadas estão indicadas na Tabela 1 e na Figura 1, sendo sempre considerado o último pavimento da edificação onde as esquadrias forem ser instaladas, mantendo-se este valor para todos os pavimentos.

Para esquadrias instaladas nas situações a seguir, deve ser consultada a ABNT NBR 6123, para determinação da pressão de projeto (P_p) e pressão de ensaio (P_e), prevalecendo como o mínimo os valores da Tabela 1 .

- Edifícios em que as esquadrias não sejam instaladas na posição vertical;
- Edifícios de forma não retangular;
- Edifícios com exigências especiais;

Tabela 1 - Tabela de pressão de ensaio para cargas uniformemente distribuídas

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

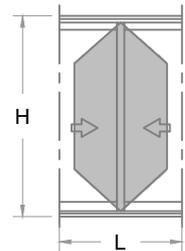
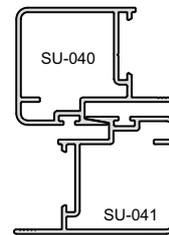
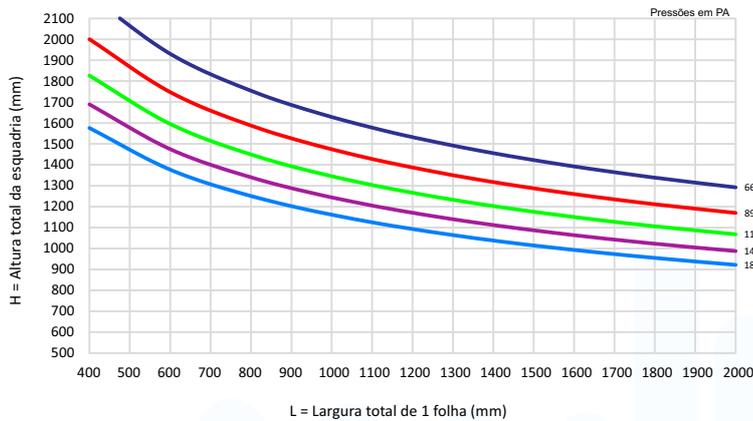
Com as pressões definidas, é possível verificar nas páginas dos 'Gráficos de Desempenho', as medidas máximas de largura e altura para as tipologias existentes em sua edificação. Para isso ligue o eixo de largura ou de altura na curva referente a pressão de ensaio encontrada e verifique a dimensão máxima correspondente.

Notas:

• Nos gráficos de desempenho a seguir, foram considerados os valores de 'Pressão de Ensaio' e ' Pressão de Segurança' de acordo com a norma ABNT NBR 10.821.

• As espessuras dos vidros devem ser calculadas utilizando-se o valor da 'Pressão de Segurança' requerida para a esquadria (para maiores informações consultar a ABNT NBR 10.821 - partes 2 e 3).

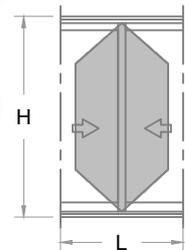
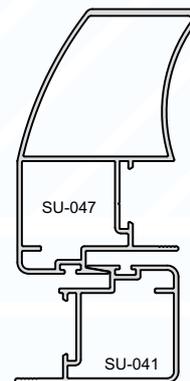
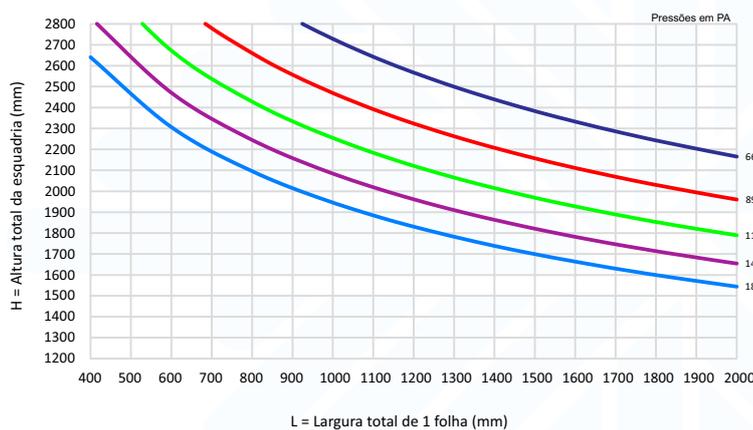
Janela De Correr 2, 3 e 4 Folhas



DADOS GEOMÉTRICOS	
SU-040	SU-041
Jx: 2,2470 Cm ⁴	Jx: 2,4841 Cm ⁴
Wx: 1,3408 Cm ³	Wx: 1,5279 Cm ³
Jxt: 4,7311 Cm ⁴	
Wxt: 2,8687 Cm ³	

Tensão Admissível: 7 Kg/mm²(Liga 6060-T5)
 Flecha Admissível: H / 175 ou 30mm

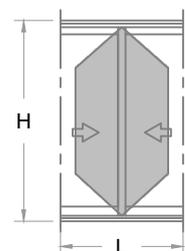
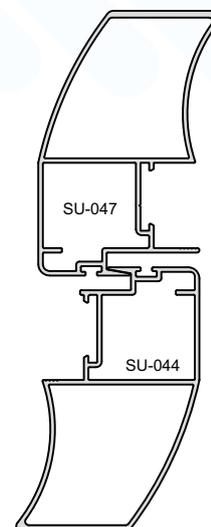
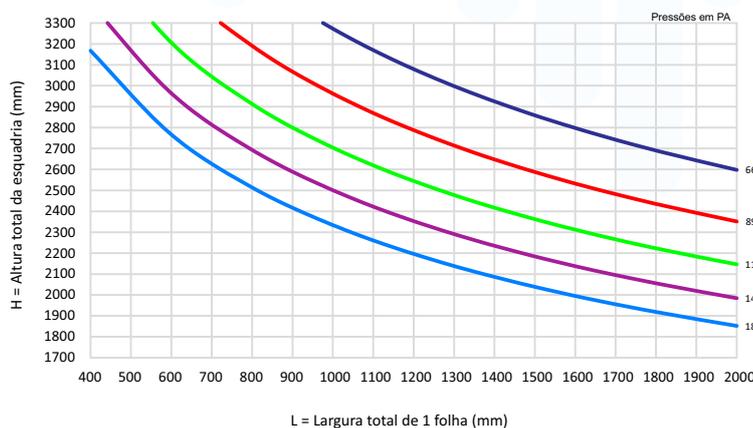
Janela De Correr 2, 3 e 4 Folhas



DADOS GEOMÉTRICOS	
SU-047	SU-041
Jx: 19,7579 Cm ⁴	Jx: 2,4841 Cm ⁴
Wx: 5,4204 Cm ³	Wx: 1,5279 Cm ³
Jxt: 22,2420 Cm ⁴	
Wxt: 6,9483 Cm ³	

Tensão Admissível: 7 Kg/mm² (Liga 6060-T5)
 Flecha Admissível: H / 175 ou 30mm

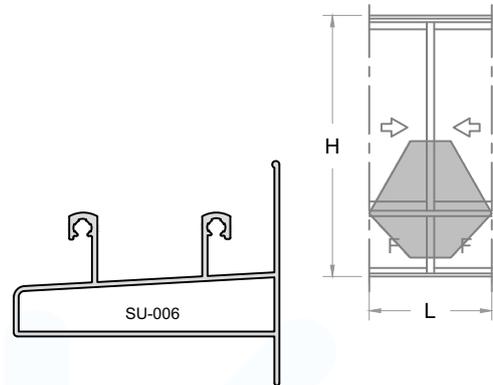
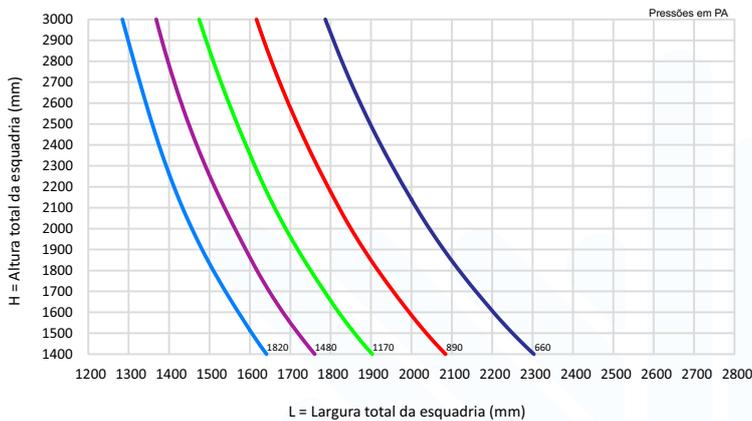
Porta De Correr 2, 3 e 4 Folhas



DADOS GEOMÉTRICOS	
SU-047	SU-244
Jx: 19,7579 Cm ⁴	Jx: 18,6370 Cm ⁴
Wx: 5,4204 Cm ³	Wx: 5,2834 Cm ³
Jxt: 38,3949 Cm ⁴	
Wxt: 10,7038 Cm ³	

Tensão Admissível: 7 Kg/mm² (Liga 6060-T5)
 Flecha Admissível: H / 175 ou 30mm

Janela De Correr 2 e 4 Folhas Com Peitoril



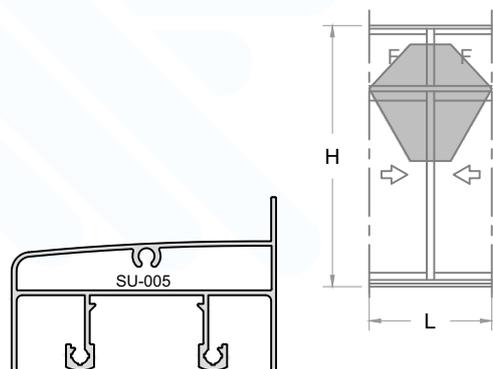
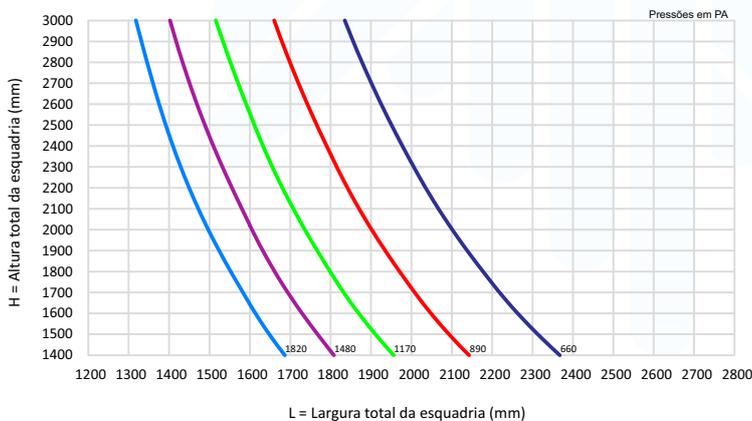
DADOS GEOMÉTRICOS		
SU-006		
Jy:	18,7489	Cm ⁴
Wy:	4,2611	Cm ³

Notas:

Atenção a deformação pelo peso próprio da estrutura.

Tensão Admissível: 7 Kg/mm² (Liga 6060-T5)
 Flecha Admissível: H / 175 ou 30mm

Janela De Correr 2 e 4 Folhas Com Bandeira



DADOS GEOMÉTRICOS		
SU-005		
Jy:	20,3369	Cm ⁴
Wy:	5,2328	Cm ³

Notas:

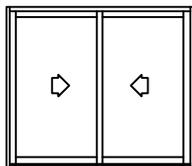
Atenção a deformação pelo peso próprio da estrutura.

Tensão Admissível: 7 Kg/mm² (Liga 6060-T5)
 Flecha Admissível: H / 175 ou 30mm

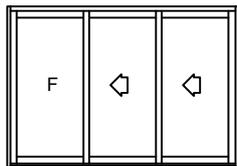
SISTEMA DE ESQUADRIAS LAGUNA 25

REV02

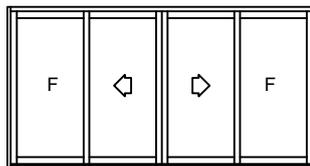
Janelas De Correr



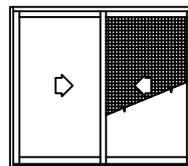
Janela de Correr
2 Folhas



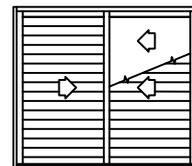
Janela de Correr
3 Folhas



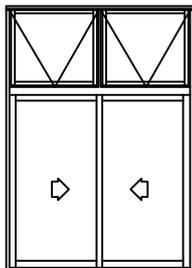
Janela de Correr
4 Folhas



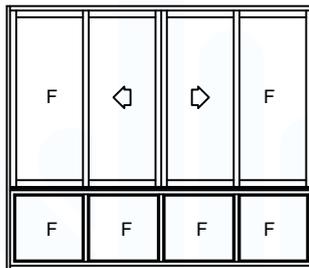
Janela de Correr 3 Folhas
Com Mosquiteira



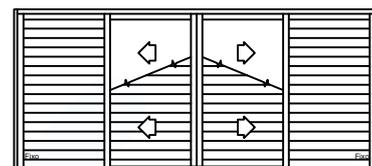
Janela de Correr 3 Folhas
Com Mosquiteira



Janela de Correr 2 Folhas
Com Bandeira

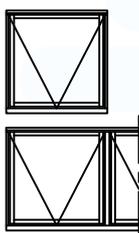


Janela de Correr 4 Folhas
Com Peitoril

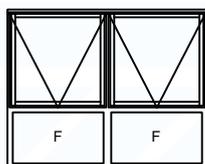


Janela de Correr 6 Folhas
Com Veneziana e Vidro

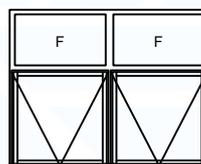
Janelas Maxim Ar



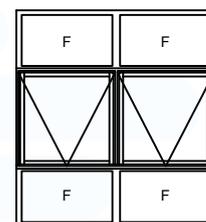
Janela Maxim-ar 'N'
Módulos



Janela Maxim-ar
Com Peitoril

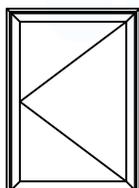


Janela Maxim-ar
Com Bandeira

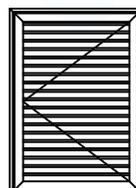


Janela Maxim-ar
Com Bandeira e Peitoril

Portinholas

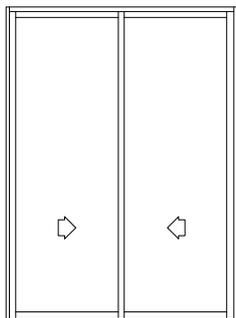


Portinhola 1 Folha Com
Vidro

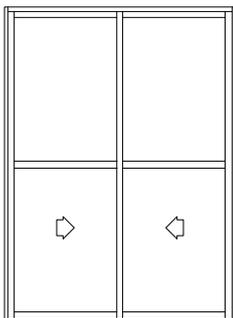


Portinhola 1 Folha Com
Veneziana

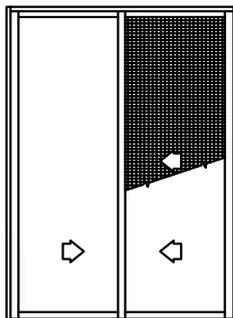
Portas De Correr



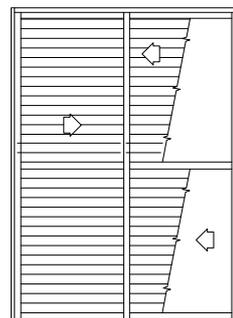
Porta de Correr
2 Folhas
Sem Travessa



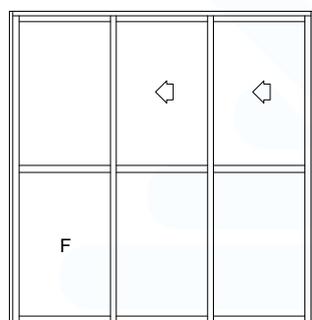
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2 Folhas
Com Travessa



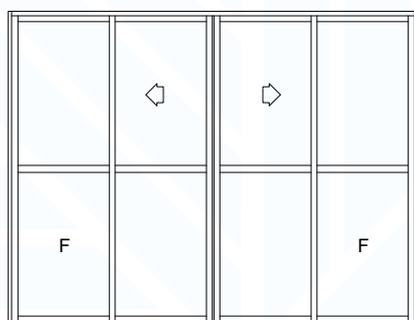
Porta de Correr
3 Folhas
Com Mosquiteira



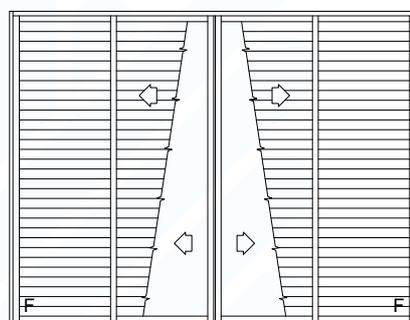
Porta de Correr 3 Folhas
Com Travessa
Com Vidro e Venezianas



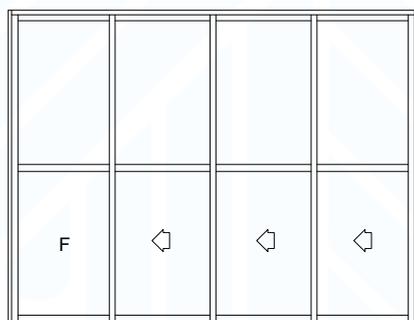
Porta de Correr 3 Folhas
Com e Sem Travessa



Porta de Correr 4 Folhas
Com e Sem Travessa

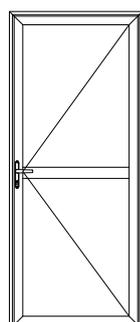


Porta de Correr 6 Folhas
Com e Sem Travessa
Com Vidros e Venezianas

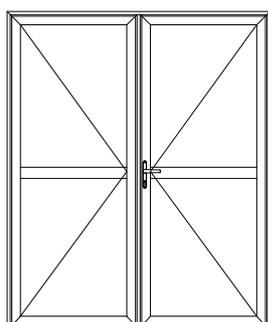


Porta de Correr 4 Folhas
Com e Sem Travessa

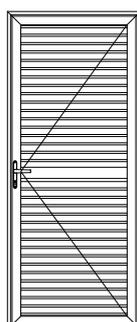
Portas De Giro



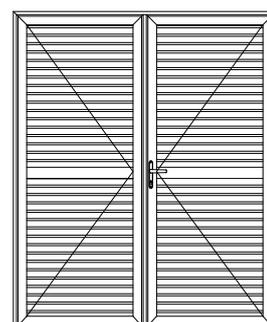
Porta de Giro 1 Folhas
Com e Sem Travessa



Porta de Giro 2 Folhas
Com e Sem Travessa



Porta de Giro 1 Folhas
Com e Sem Travessa
Com Veneziana ou Lambri



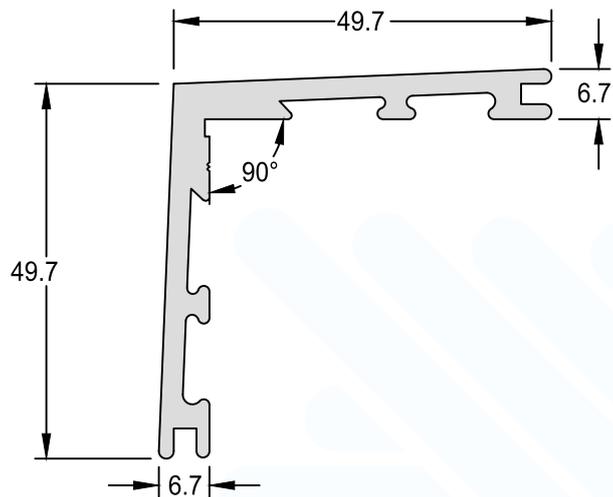
Porta de Giro 2 Folhas
Com e Sem Travessa
Com Veneziana ou Lambri

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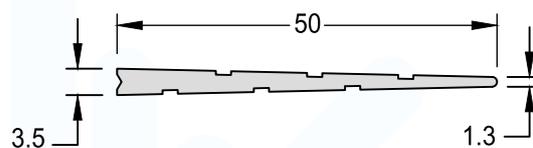
Cantoneira de Ligação 45°

CL-006	1,028 kg/m
Medida Padrão	3000mm



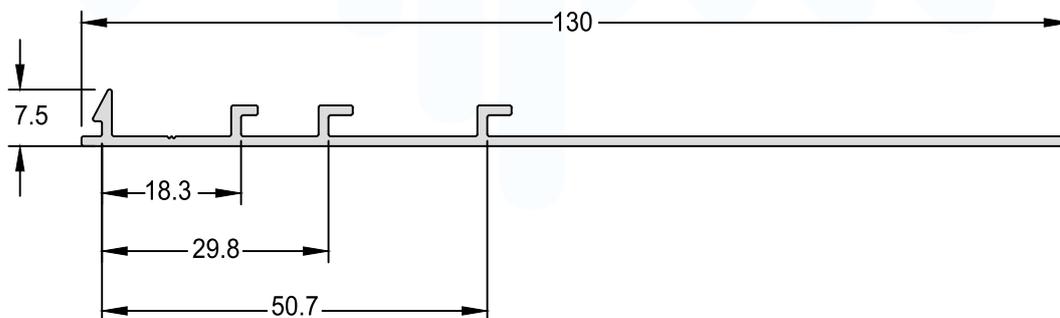
Cunha de Ligação 45°

CL-011	0,304 kg/m
Medida Padrão	3000mm



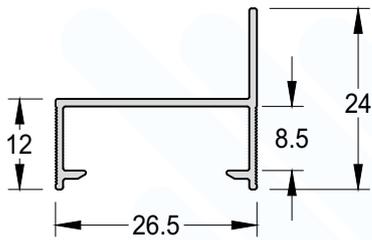
Chumbador para Contramarco

ADI-016	0,556 kg/m
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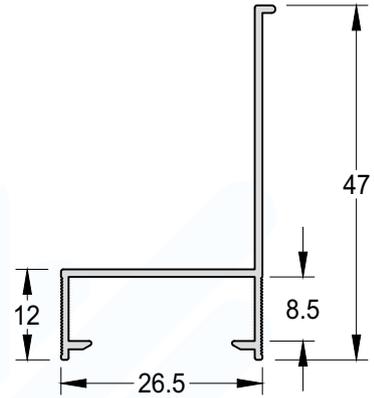
Contramarco

CM-200A 0,174 kg/m



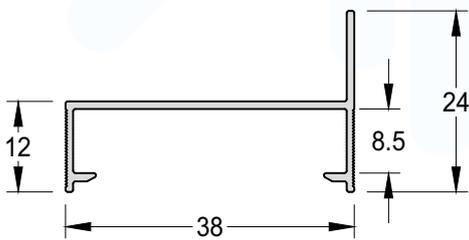
Contramarco Inferior - Portas

CM-151 0,241 kg/m



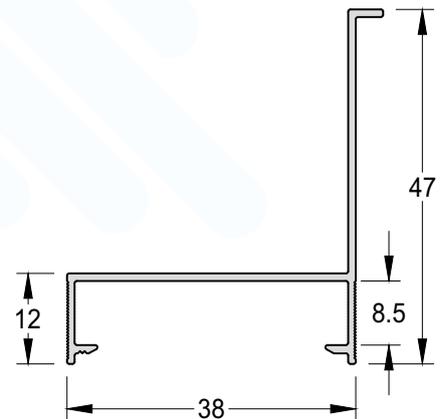
Contramarco

CM-060A 0,205 kg/m

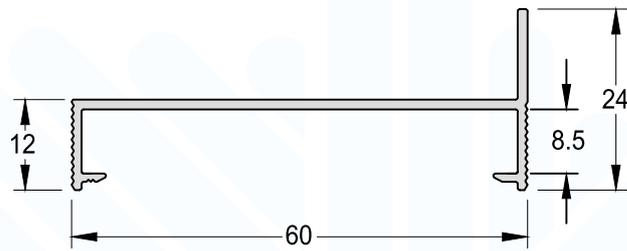


Contramarco Inferior - Portas

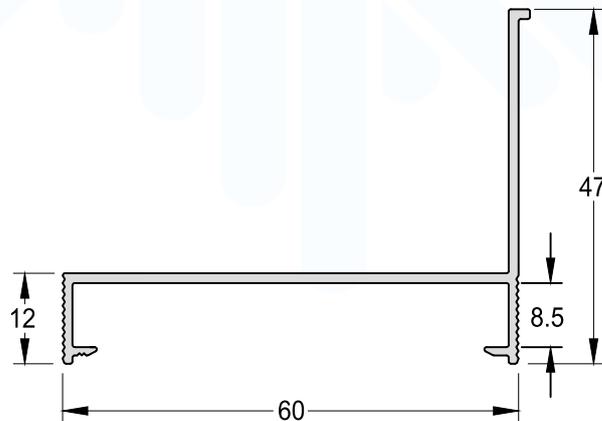
CM-098 0,277 kg/m



Contramarco
CM-174 0,336 kg/m

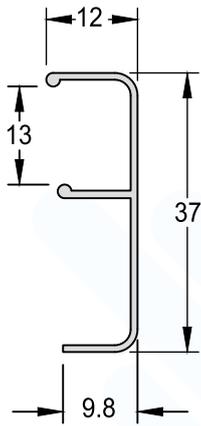


Contramarco
CM-173 0,423 kg/m



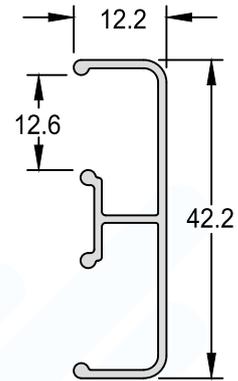
Arremate Vertical e Horizontal

ADI-017 0,165 kg/m



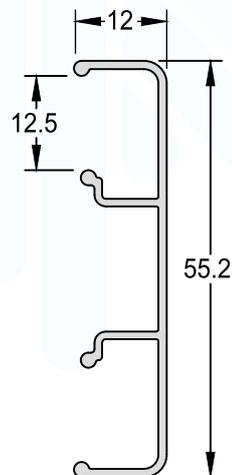
Arremate Vertical e Horizontal

IT-101 0,259 kg/m



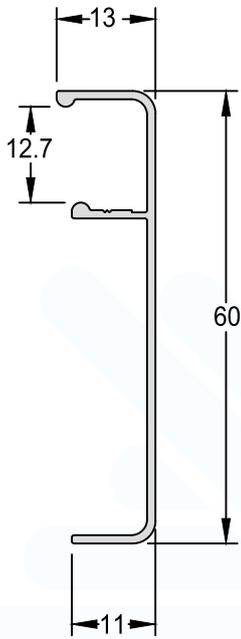
Arremate Vertical e Horizontal

IT-100 0,307 kg/m



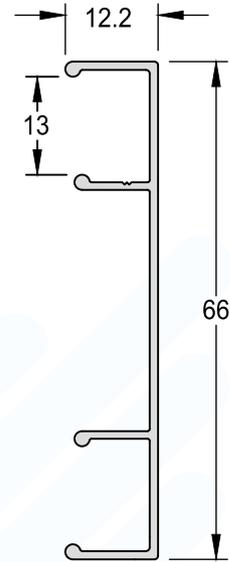
Arremate Vertical e Horizontal

ADI-349 0,276 kg/m



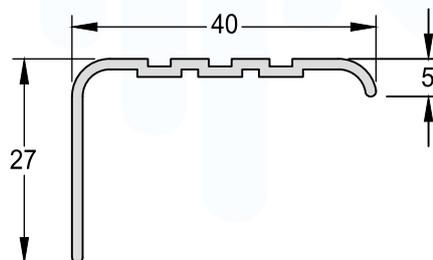
Arremate Vertical e Horizontal

IT-102 0,330 kg/m

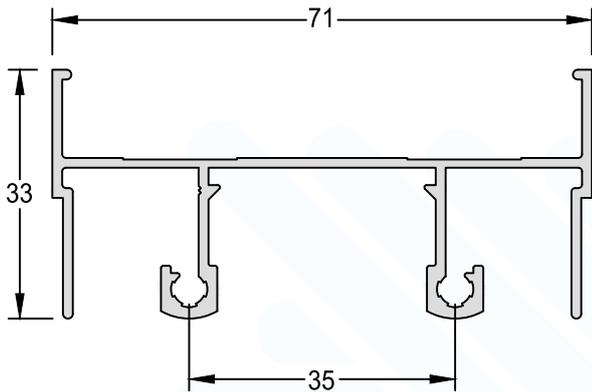
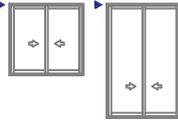


Arremate de Piso

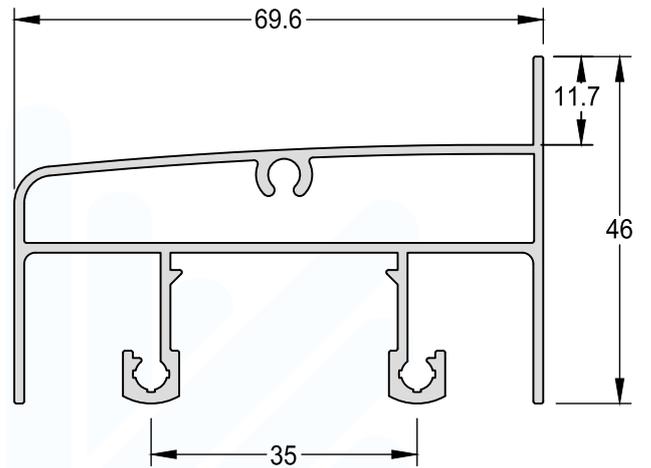
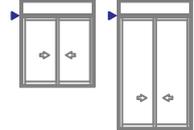
ME-013 0,270 kg/m



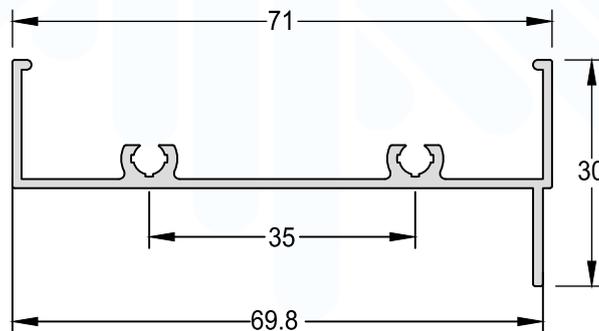
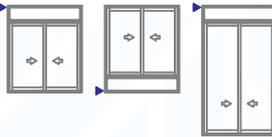
Marco Superior Horizontal
 SU-001 0,737 kg/m



**Travessa Intermediária -
 Bandeira**
 SU-005 1,034 kg/m



Marco Bandeira / Peitoril
 SU-004 0,481 kg/m

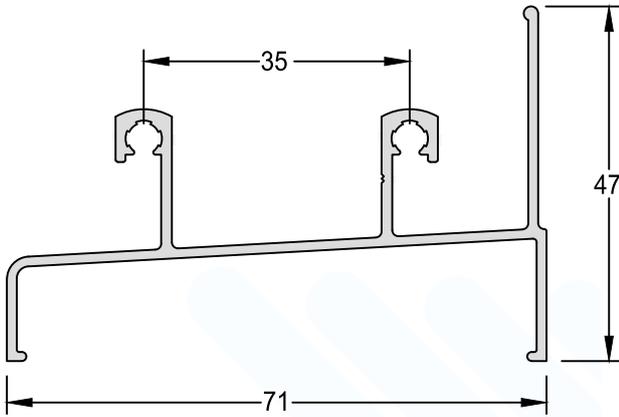


SISTEMA DE ESQUADRIAS LAGUNA 25

REV02

Marco Inferior Horizontal

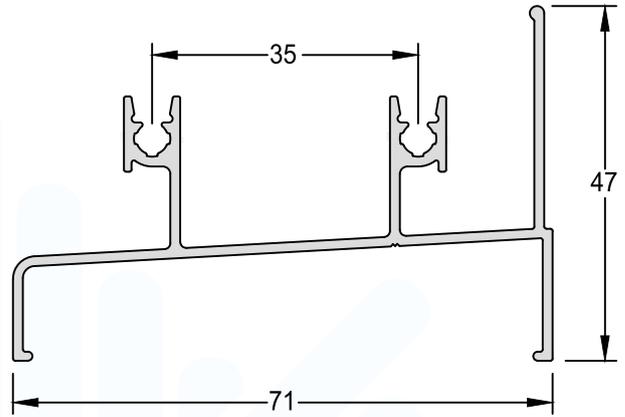
SU-002 0,700 kg/m



Marco Inferior Horizontal

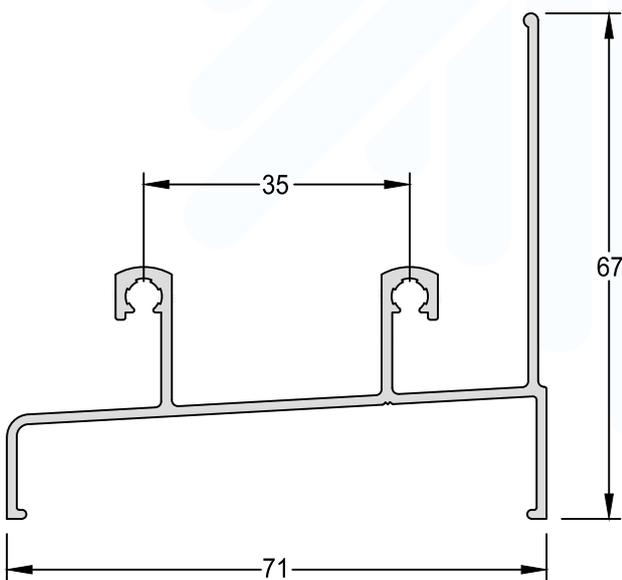
SU-2541 0,725 kg/m

Encaixe: NYL2586/ SU-258



Marco Inferior Horizontal

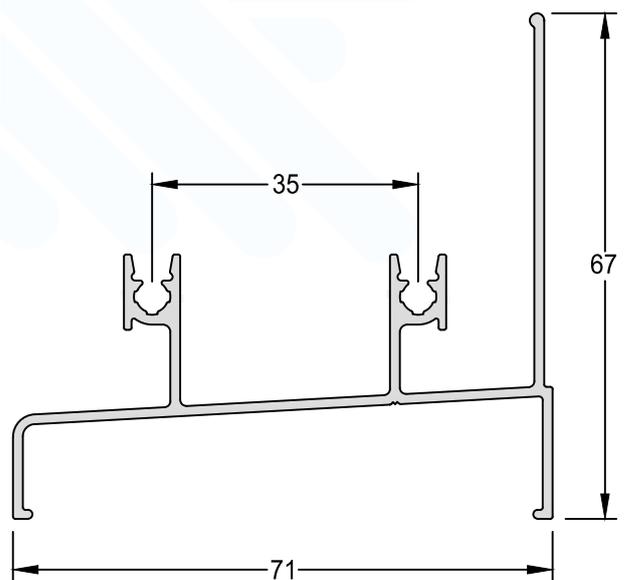
SU-022 0,770 kg/m



Marco Inferior Horizontal

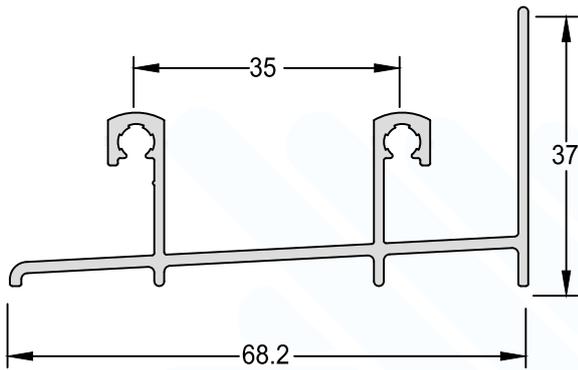
SU-2522 0,796 kg/m

Encaixe: NYL2586/ SU-258



Marco Inferior Horizontal

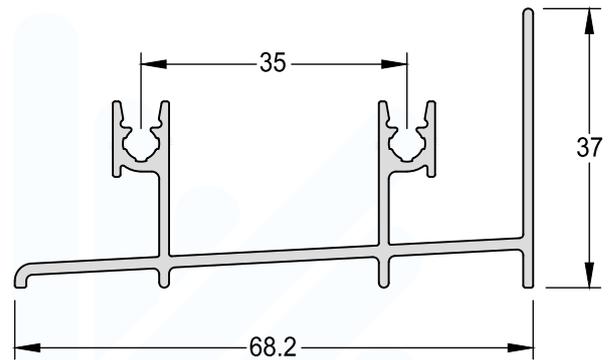
SU-228 0,665 kg/m



Marco Inferior Horizontal

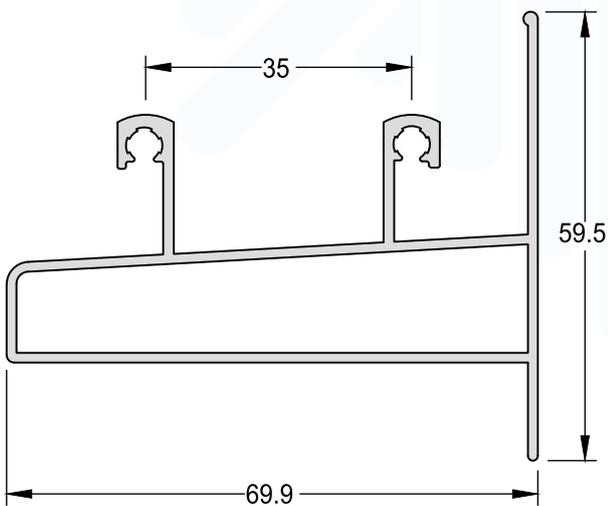
SU-2523 0,697 kg/m

Encaixe: NYL2586/ SU-258



**Travessa Intermediária -
Peitoril**

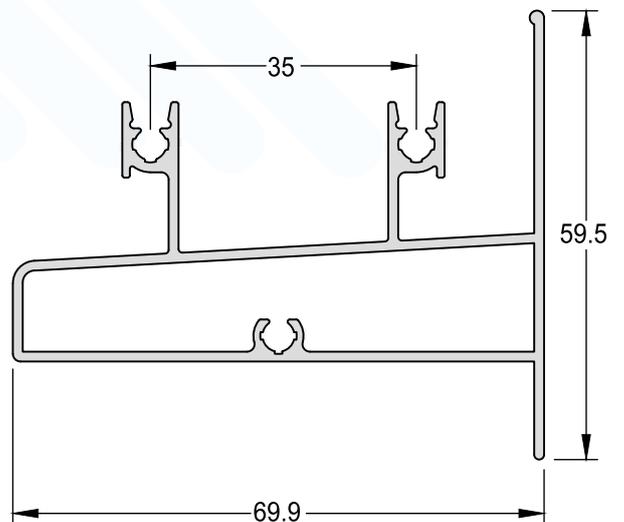
SU-006 0,968 kg/m



**Travessa Intermediária -
Peitoril**

SU-2542 1,022 kg/m

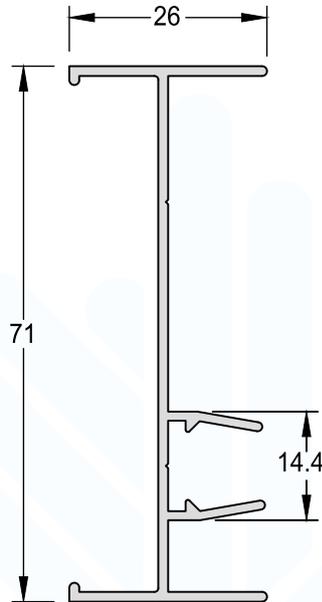
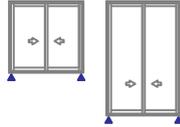
Encaixe: NYL2586/ SU-258



Marco Lateral Vertical

SU-003

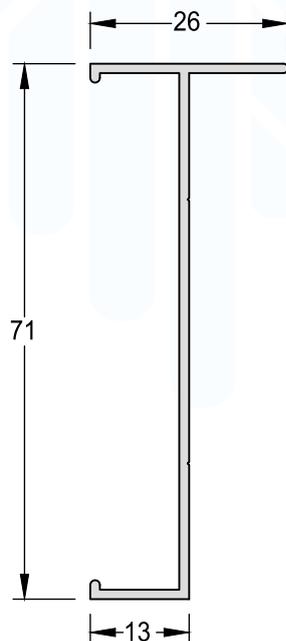
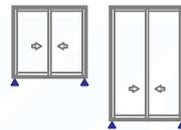
0,521 kg/m



Marco Lateral Vertical

SU-007

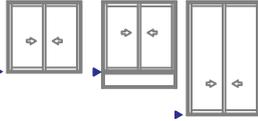
0,380 kg/m



Click Trilho

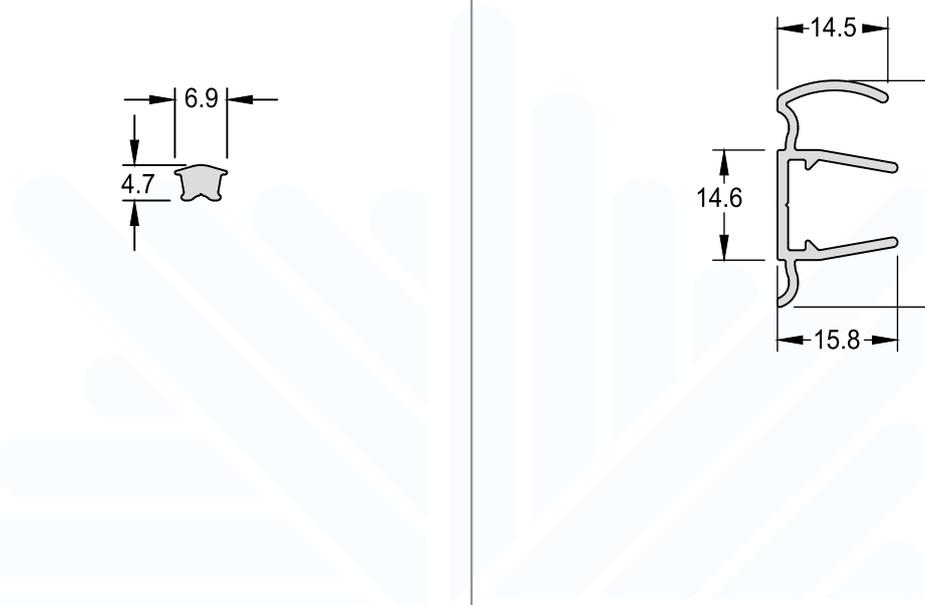
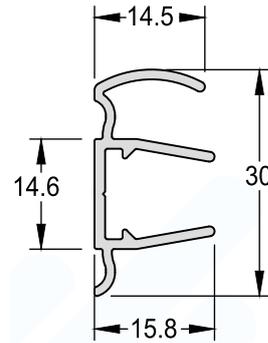
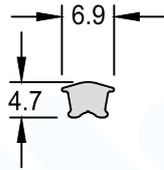
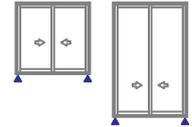
SU-258 0,059 kg/m

Encaixe: SU-2522/ SU-2523/ SU-2541/ SU-2542/ SU-2569/ SU-2621/ SU-2622



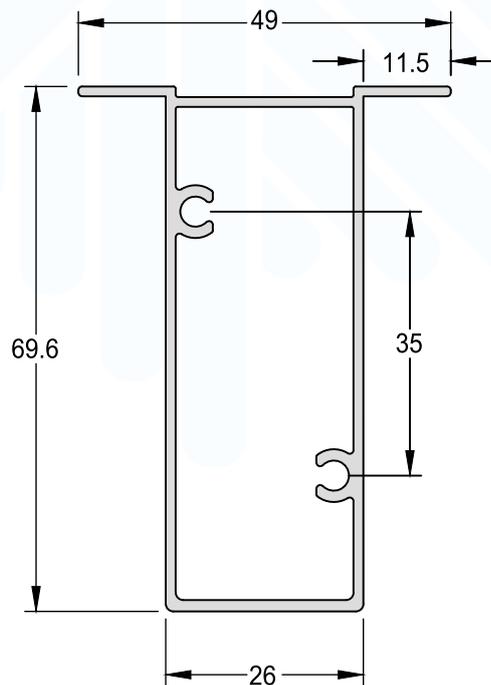
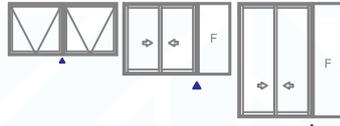
Complemento do Marco Lateral

SU-008 0,261 kg/m



Coluna

SU-009 0,845 kg/m

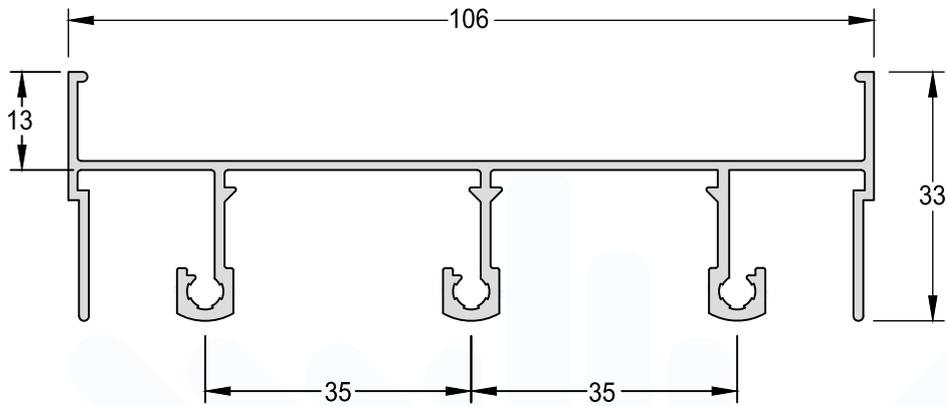
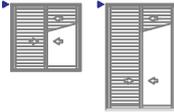


SISTEMA DE ESQUADRIAS LAGUNA 25

REV02

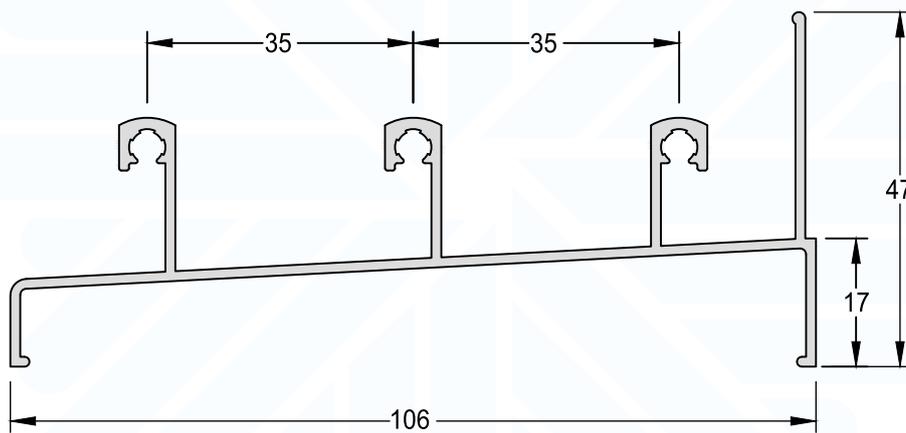
Marco Superior Horizontal

SU-010 0,985 kg/m



Marco Inferior Horizontal

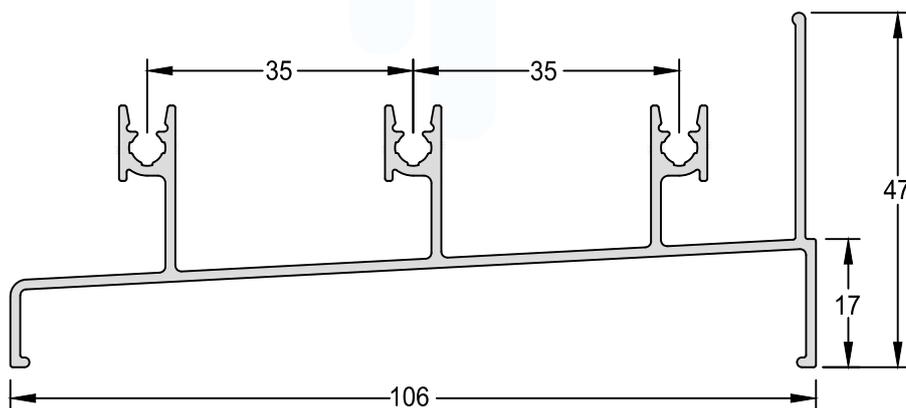
SU-011 0,933 kg/m



Marco Inferior Horizontal

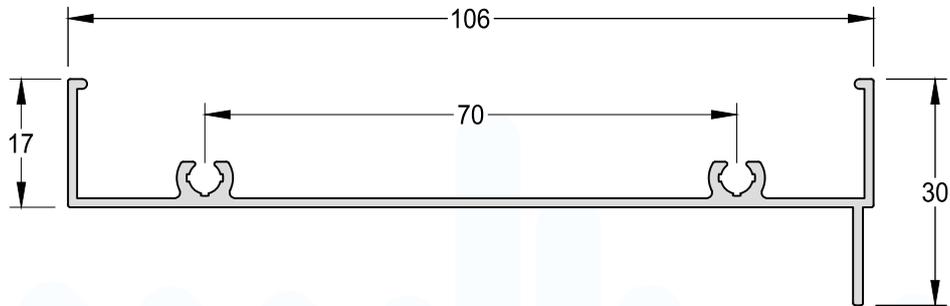
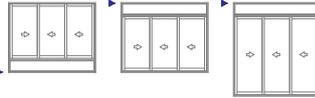
SU-2621 0,984 kg/m

Encaixe: NYL2586/ SU-258



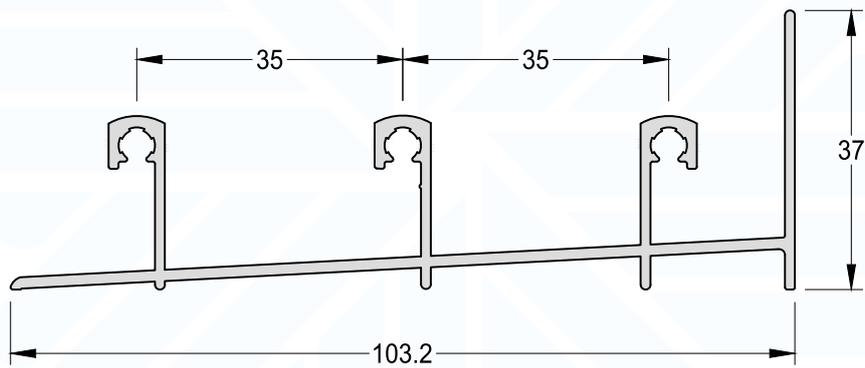
Marco Bandeira / Peitoril

SU-018 0,601 kg/m



Marco Inferior Horizontal

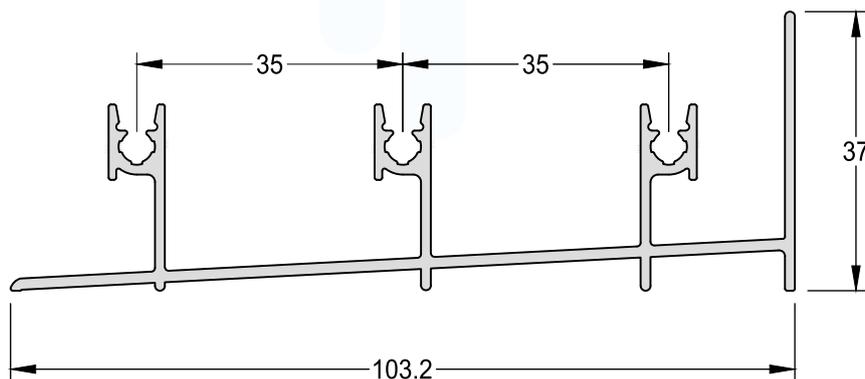
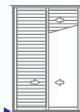
SU-230 0,930 kg/m



Marco Inferior Horizontal

SU-2622 0,978 kg/m

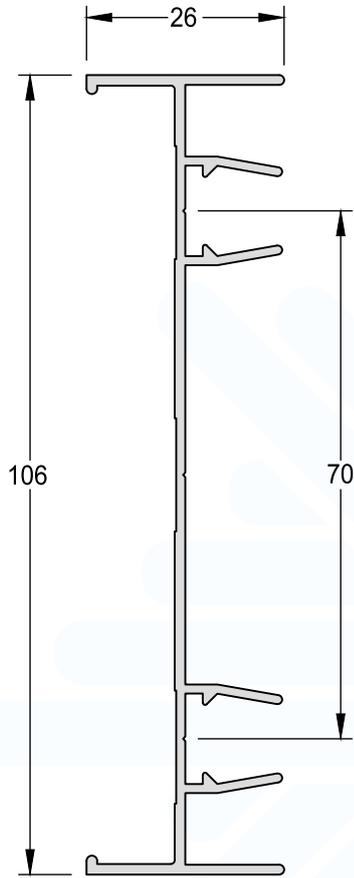
Encaixe: NYL2586/ SU-258



Marco Lateral Vertical

SU-013

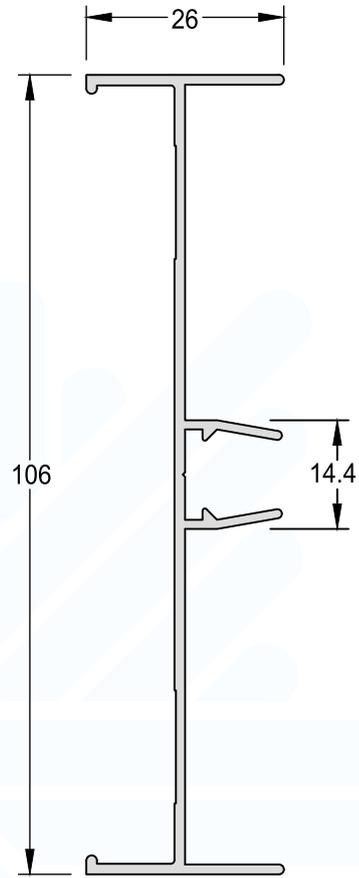
0,784 kg/m



Marco Lateral Vertical

SU-014

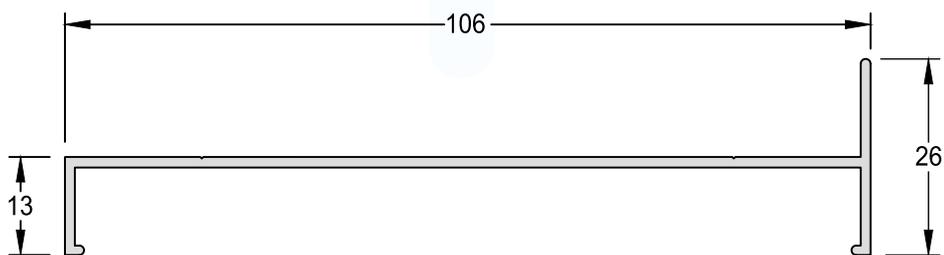
0,671 kg/m



Marco Lateral Vertical

SU-012

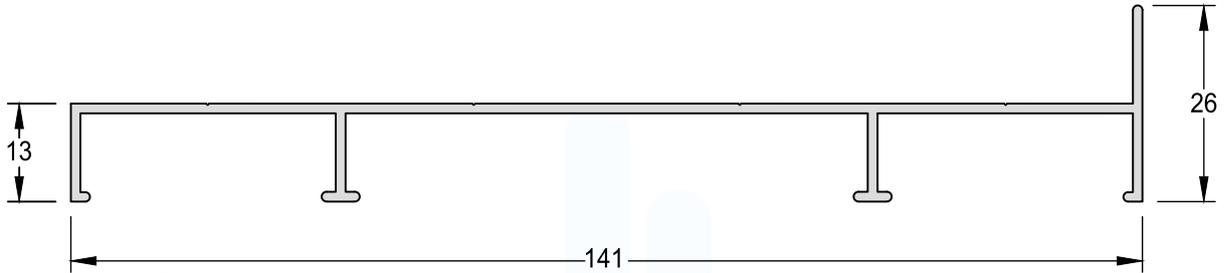
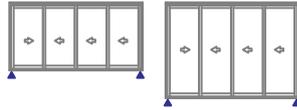
0,536 kg/m



Marco Lateral Vertical

SU-123

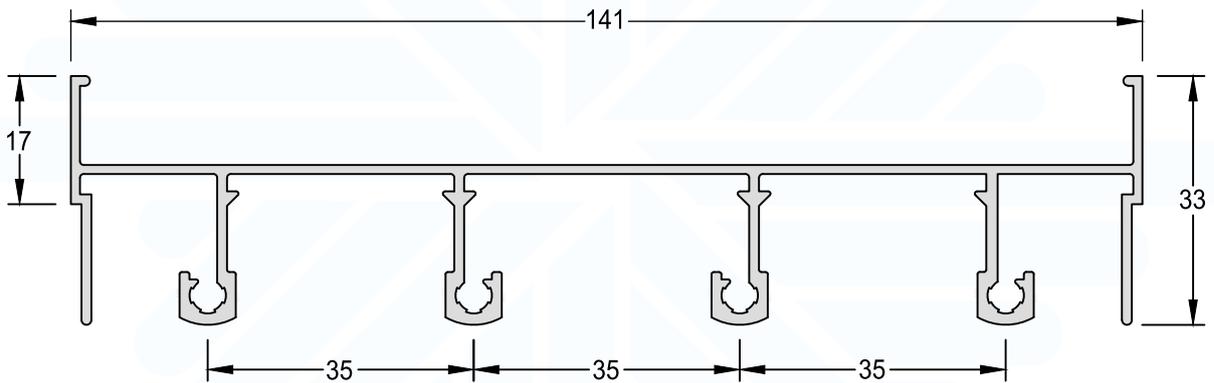
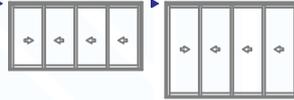
0,733 kg/m



Marco Superior Horizontal

SU-121

1,227 kg/m

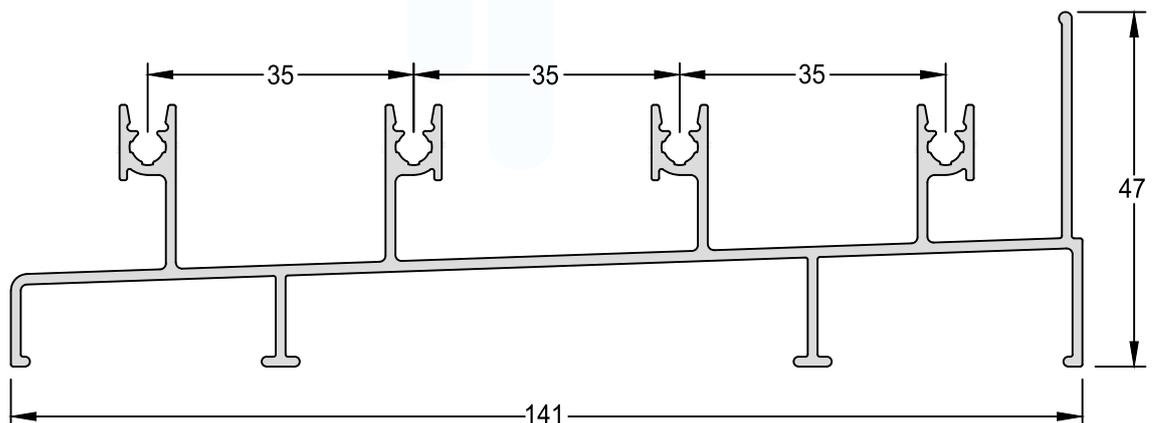
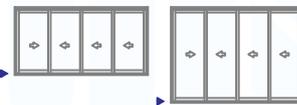


Marco Inferior Horizontal

SU-2569

1,396 kg/m

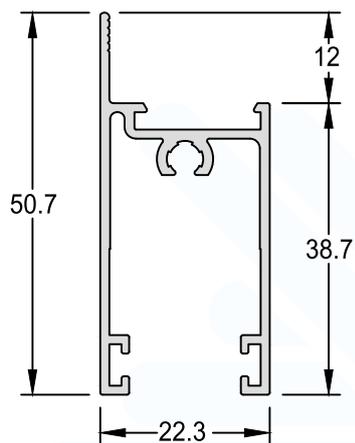
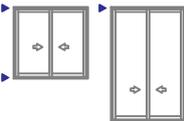
Encaixe: NYL2586/ SU-258



Folha Superior e Inferior Horizontal

SU-053 0,476 kg/m

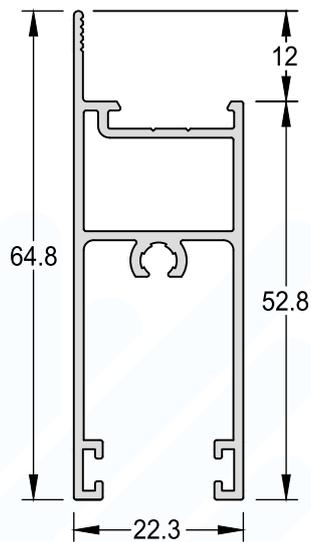
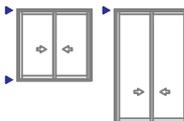
Encaixe: SU-102A / SU-102C / SU-203 / SU-203A



Folha Superior e Inferior Horizontal

SU-246A 0,645 kg/m

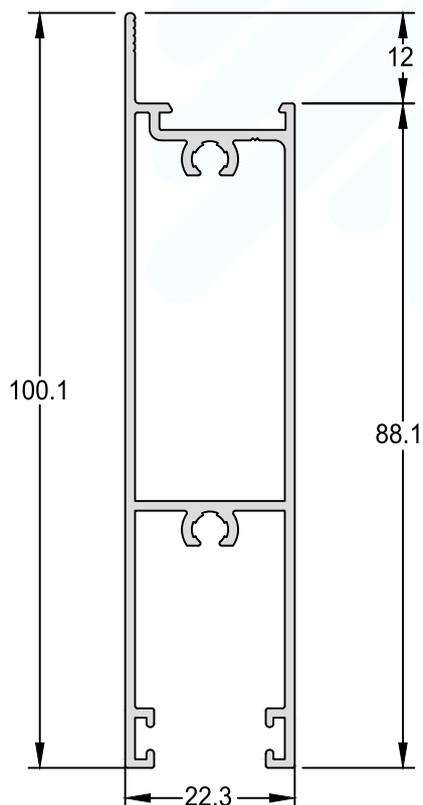
Encaixe: SU-102A / SU-102C / SU-203 / SU-203A



Folha Inferior Horizontal

SU-225 0,954 kg/m

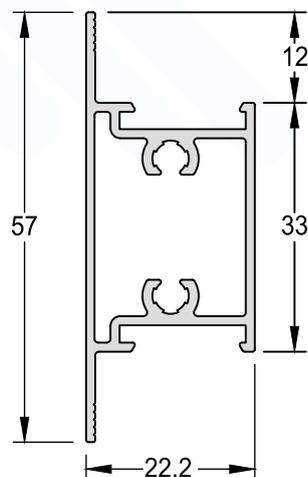
Encaixe: SU-102A / SU-102C / SU-203 / SU-203A



Travessa 60mm

SU-227 0,543 kg/m

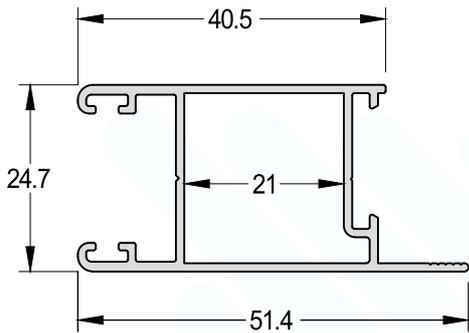
Encaixe: SU-102A / SU-102C / SU-203 / SU-203A



Folha Lateral Vertical

SU-039 0,476 kg/m

Encaixe: SU-102A/ SU-102B/ SO-102C/ SU-108

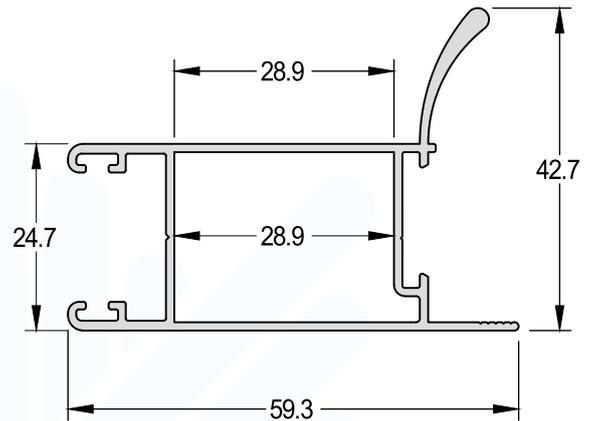
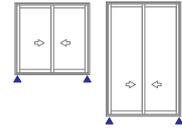


Folha Lateral Vertical C/Reforço

SU-280 0,620 kg/m

Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108

Medida Padrão 4600mm/ 6000mm

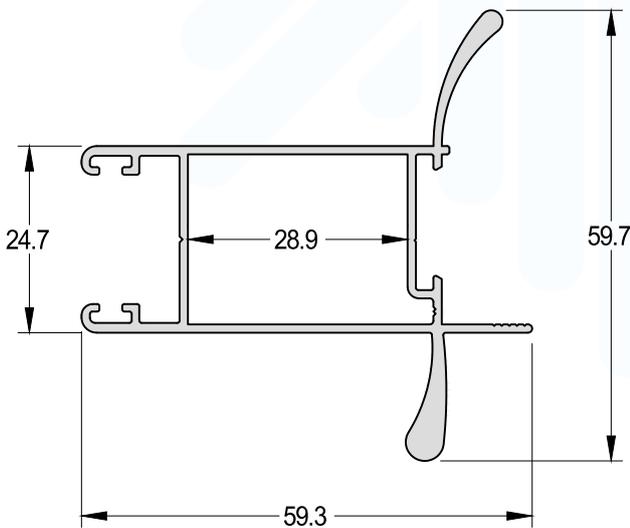
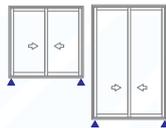


Folha Lateral Vertical C/Reforço

SU-052 0,757 kg/m

Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108

Medida Padrão 4600mm/ 6000mm

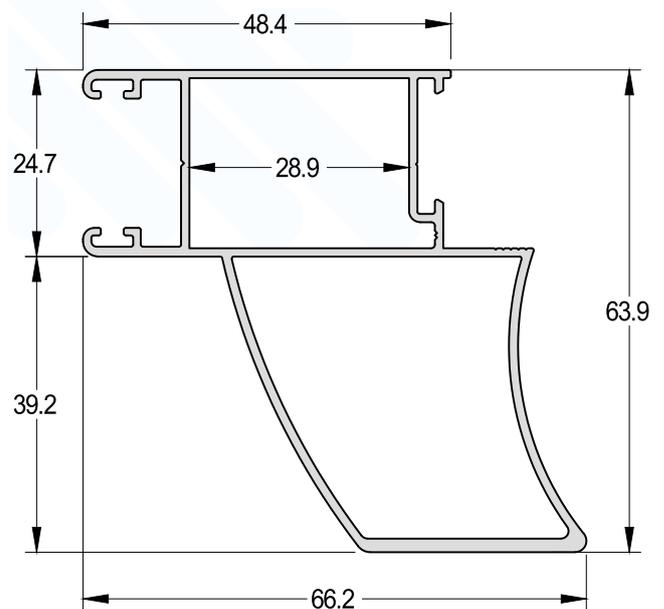
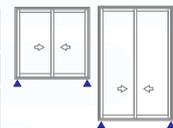


Folha Lateral Vertical C/Reforço

SU-2586 0,935 kg/m

Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108

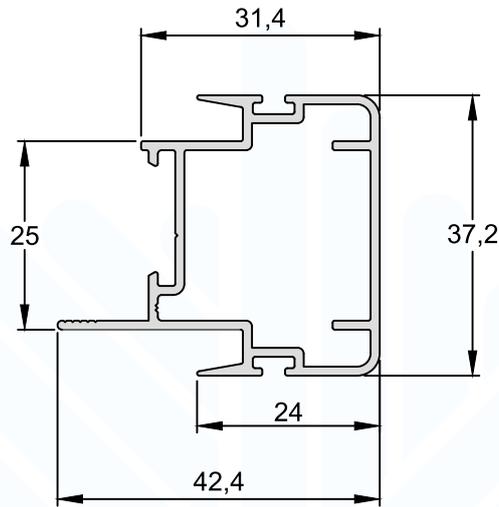
Medida Padrão 4600mm/ 6000mm



Folha Mão de Amigo Central

SU-2567 0,578 kg/m

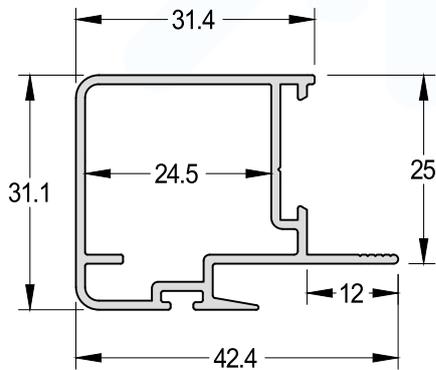
Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108



Folha Mão de Amigo Interno

SU-040 0,489 kg/m

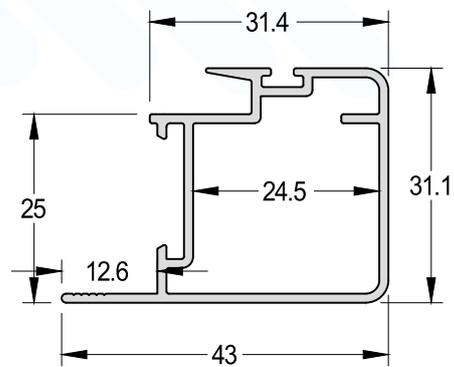
Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108



Folha Mão de Amigo Externo

SU-041 0,492 kg/m

Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108

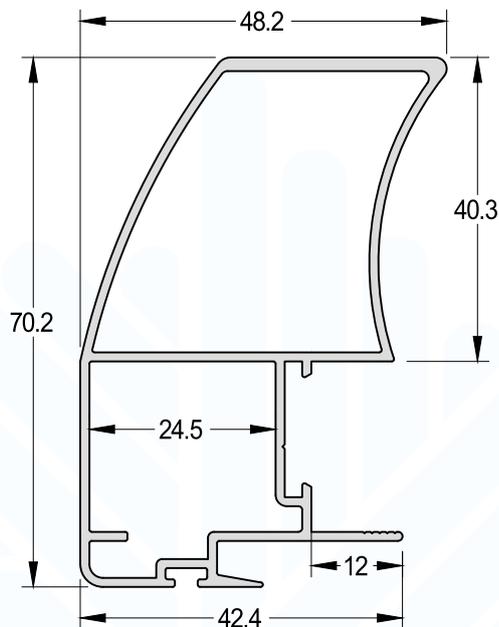
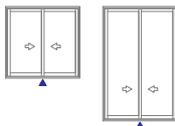


**Folha Mão de Amigo Interno
C/Reforço**

SU-047 0,935 kg/m

Encaixe: SU-102A/ SU-102B/ SU-102C/
SU-108

Medida Padrão 4600mm/ 6000mm

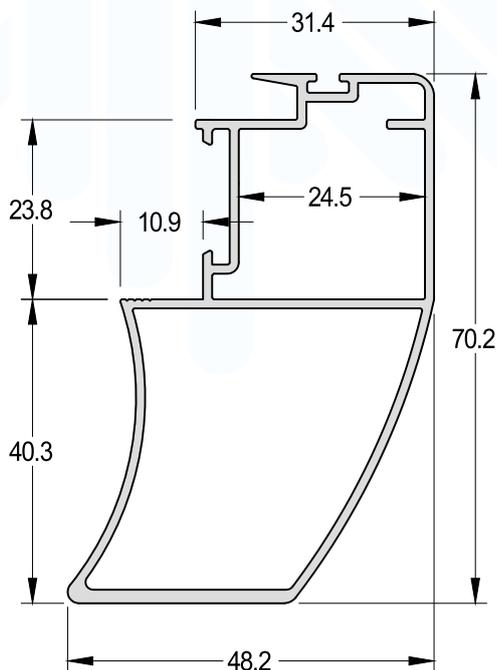
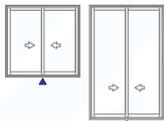


**Folha Mão de Amigo Externo
C/Reforço**

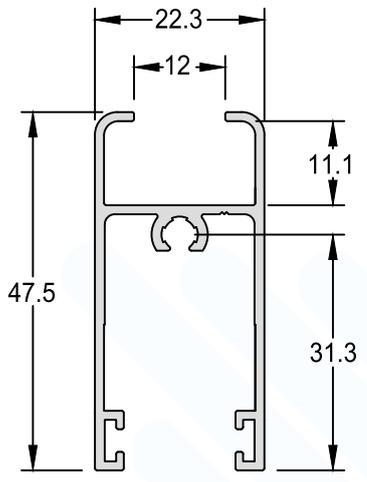
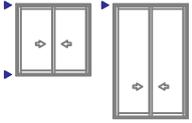
SU-044 0,899 kg/m

Encaixe: SU-102A/ SU-102B/ SU-102C/
SU-108

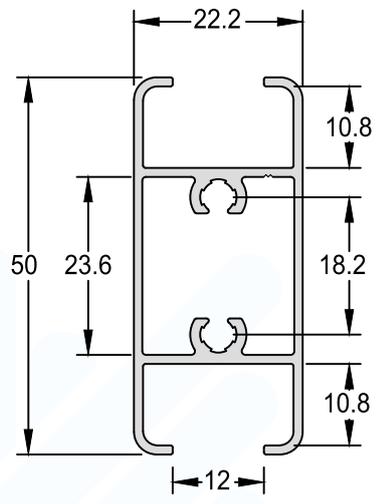
Medida Padrão 4600mm/ 6000mm



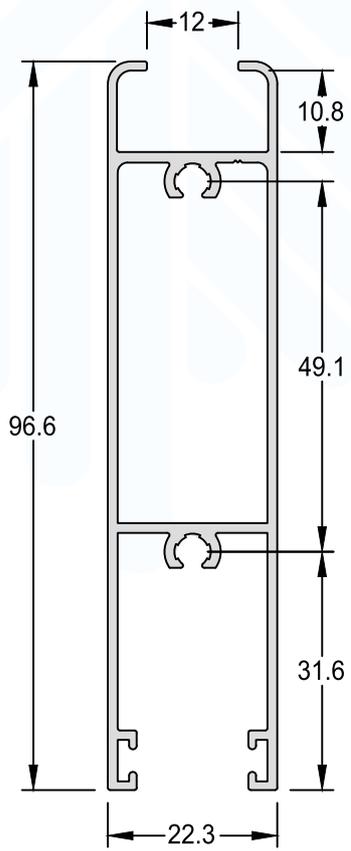
Folha Inferior e Superior S/Baguete
SU-186 0,498 kg/m



Travessa Central 50mm S/Baguete
SU-188 0,573 kg/m

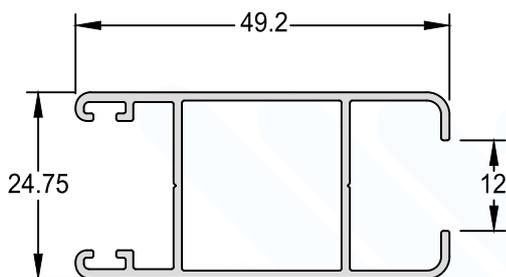


Folha Inferior Horizontal S/Baguete
SU-226 0,970 kg/m



Folha Lateral Vertical
S/Baguete

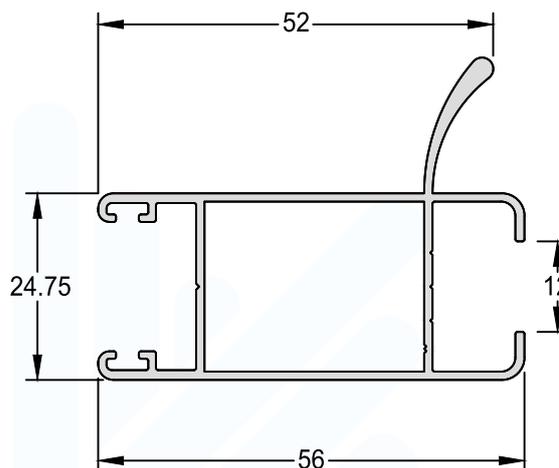
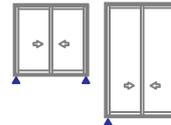
SU-055 0,502 kg/m



Folha Lateral Vertical
S/Baguete C/Reforço

SU-2590 0,642 kg/m

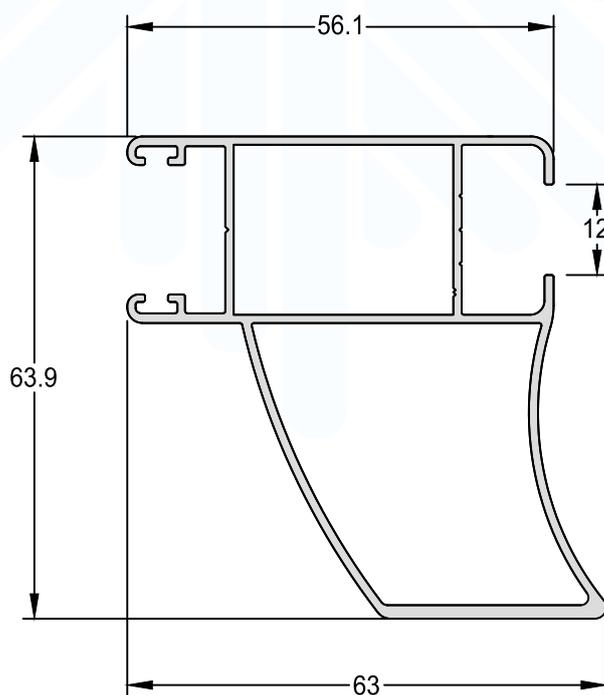
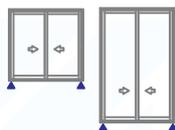
Medida Padrão 4600mm/6000mm



Folha Lateral Vertical
S/Baguete C/Reforço

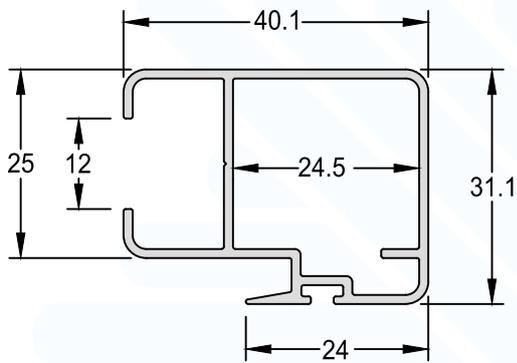
SU-2592 0,961 kg/m

Medida Padrão 4600mm/6000mm



Folha Mão de Amigo
S/Baguete

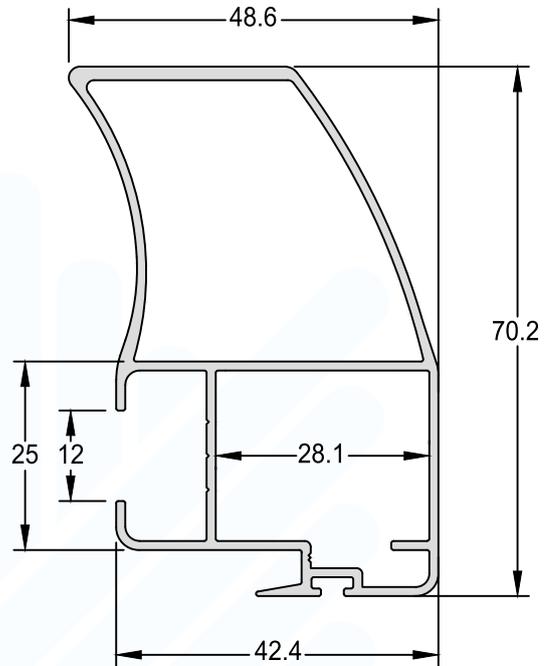
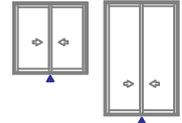
SU-056 0,517 kg/m



Folha Lateral Vertical
S/Baguete C/Reforço

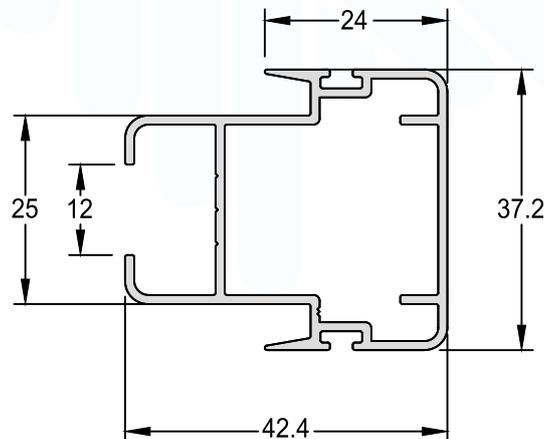
SU-061 0,962 kg/m

Medida Padrão 4600mm/6000mm



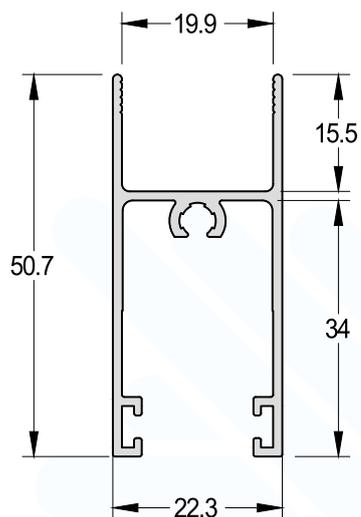
Folha Mão de Amigo
Central S/Baguete

SU-057 0,620 kg/m



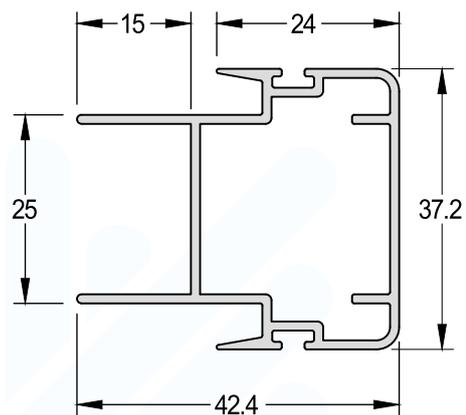
Folha Superior e Inferior Horizontal - Veneziana

SU-187A 0,496 kg/m



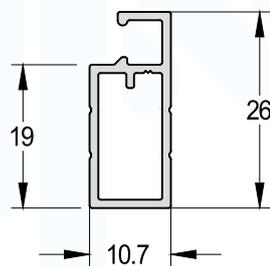
Folha Mão de Amigo Central Veneziana

SU-069 0,592 kg/m

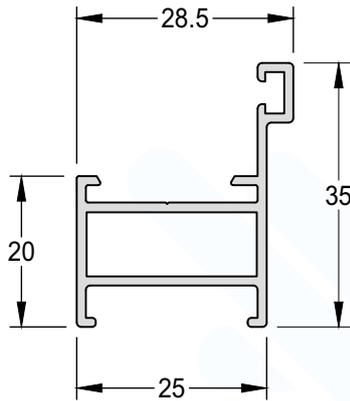
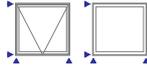


Quadro Mosquiteira

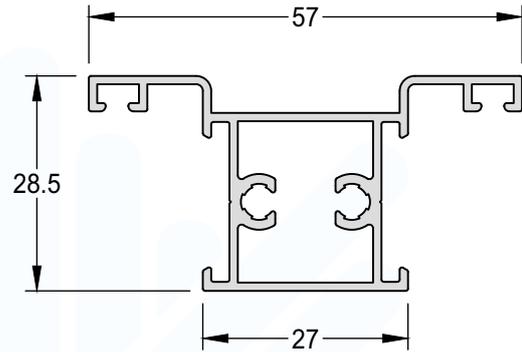
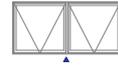
TM-171 0,217 kg/m



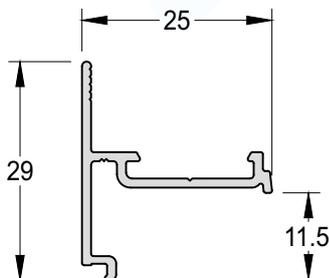
Marco Tubular - Maxim-ar	
SU-079	0,390 kg/m
Encaixe: SU-103A/ SU-103B/ SU-292	



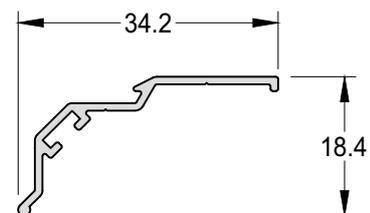
Coluna / Travessa	
SU-086	0,582 kg/m
Encaixe: SU-103A/ SU-102B/ SU-292	



Inverso de Baguete	
SU-292	0,212 kg/m
Encaixe: SU-102A/ SU-102B/ SU-102C/ SU-108/ SU-079/ SU-086	



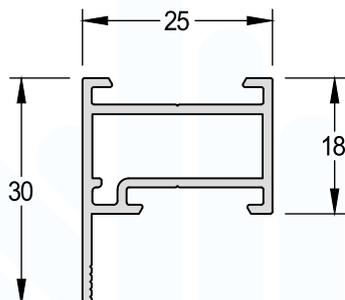
Pingadeira -Maxim-ar	
SU-083	0,150 kg/m
Encaixe: SU-079/ SU-086	



Folha Superior - Maxim-ar

SU-080 0,357 kg/m

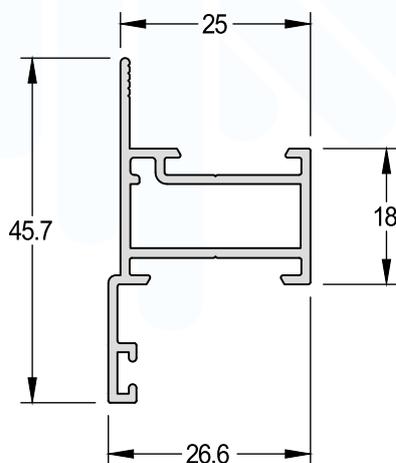
Encaixe: SU-102A/ SU-102B/ SU-102C



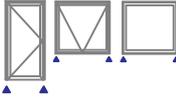
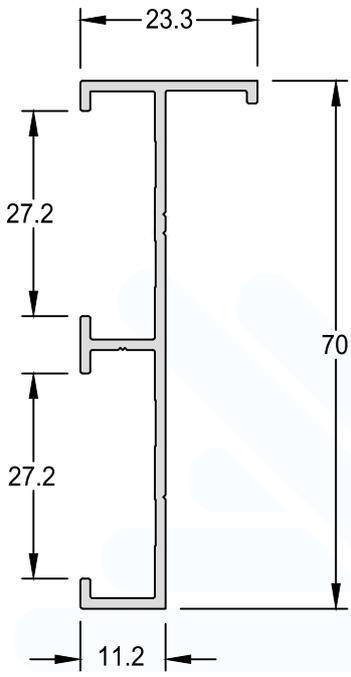
Folha Inf. e Lateral - Maxim-ar

SU-200 0,435 kg/m

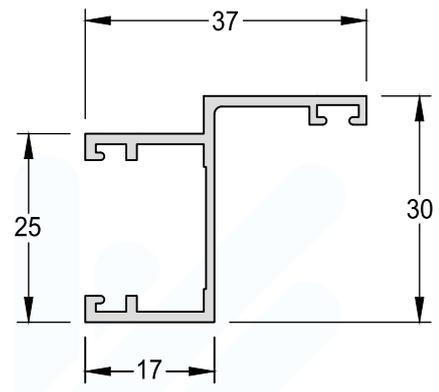
Encaixe: SU-102A/ SU-102B/ SU-102C



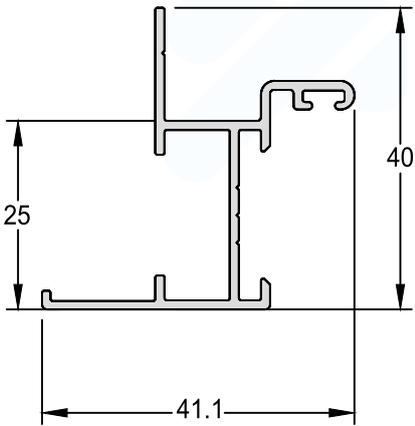
Marco Lateral
25-514 0,458 kg/m

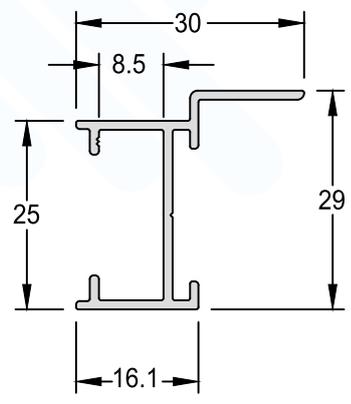
Marco Portinhola
25-002 0,349 kg/m

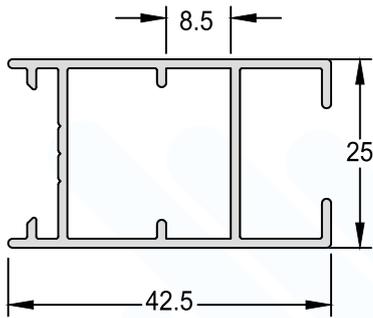
Marco Portinhola
SU-065 0,380 kg/m

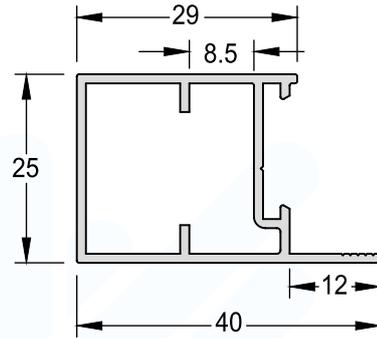
Complemento Marco
SU-071 0,268 kg/m

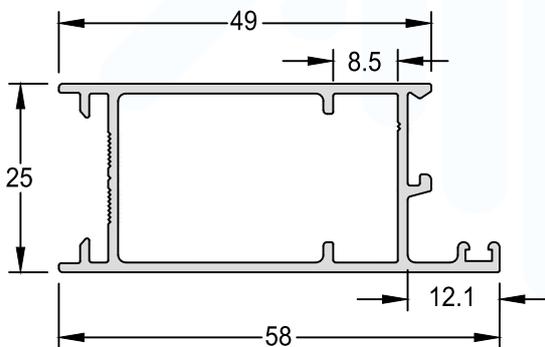
Folha Perimetral - Portinhola
 SU-064 0,487 kg/m



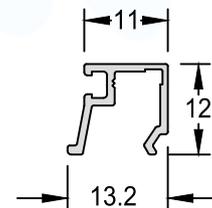
Folha Perimetral - Portinhola
 25-016 0,417 kg/m
 Encaixe: SU-102A/ SU-102B/ SU-102C/
 SU-108/SU-203A



Folha Perimetral - Porta de Giro
 25-542A 0,604 kg/m
 Encaixe: BG-001

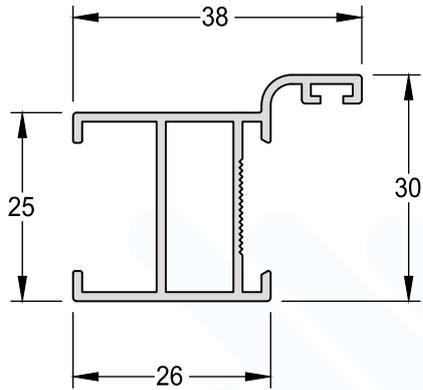


Baguete Vertical e Horizontal
 BG-001 0,104 kg/m
 Encaixe: 25-542A



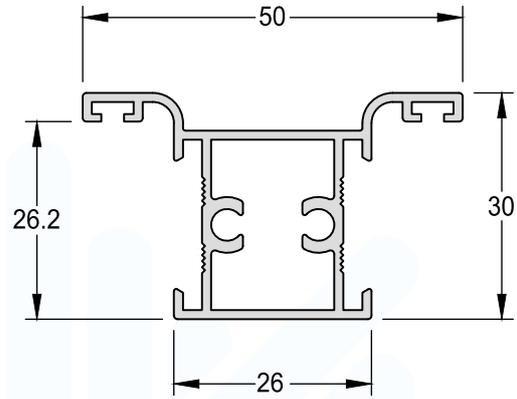
SISTEMA DE ESQUADRIAS LAGUNA 25
 REV02

Marco Tubular - Porta de Giro
 25-540 0,417 kg/m



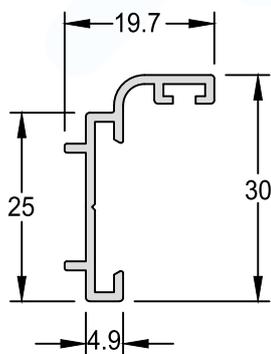
Coluna / Travessa

25-504 0,572 kg/m



Batente - Porta de Giro

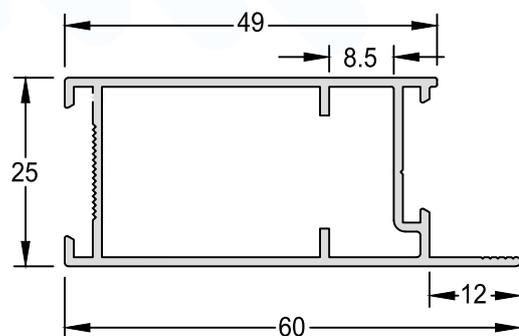
25-548 0,213 kg/m



Folha Perimetral - Porta de Giro

SU-111 0,556 kg/m

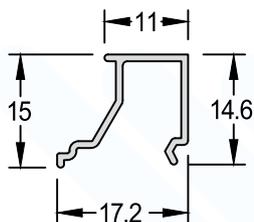
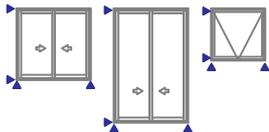
Encaixe: SU-102A / SU-102B /
 SU-102C / SU-108 / SU-203A



Baguete Vertical e Horizontal

SU-102A 0,109 kg/m

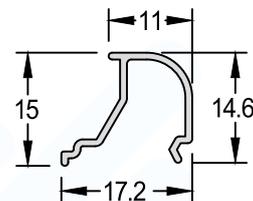
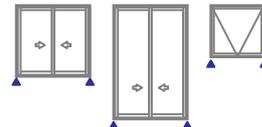
Encaixe: SU-039A/ SU-245A/ SU-040A/
SU-041A/ SU-038A/ SU-243A/
SU-242A/ SU-238A/ SU-225/
SU-227/ SU-053/ SU-246A



Baguete Vertical

SU-102B 0,103 kg/m

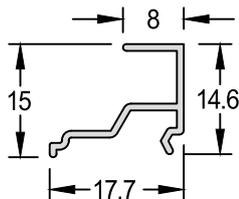
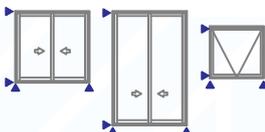
Encaixe: SU-039A/ SU-245A/ SU-040A/
SU-041A/ SU-038A/ SU-243A/ SU-242A/
SU-238A



Baguete Vertical e Horizontal

SU-102C 0,106 kg/m

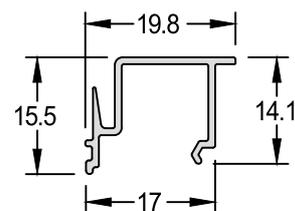
Encaixe: SU-039A/ SU-245A/ SU-040A/
SU-041A/ SU-038A/ SU-243A/ SU-242A/
SU-238A/ SU-225/ SU-227/ SU-053/
SU-246A



Baguete Terminal - Veneziana

SU-203 0,130 kg/m

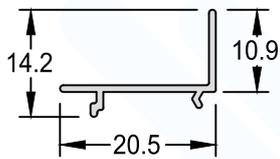
Encaixe: SU-053/ SU-246A/ SU-225/
SU-227



Complemento - Veneziana

SU-203A **0,089 kg/m**

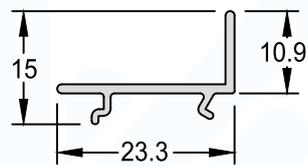
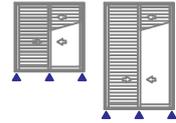
Encaixe: SU-039A/ SU-245A/ SU-040A/
SU-041A/ SU-038A/ SU-243A/ SU-242A/
SU-238A/ SU-225/ SU-227/ SU-053/
SU-246A/ SU-111/ 25-016



Complemento - Veneziana

SU-108 **0,130 kg/m**

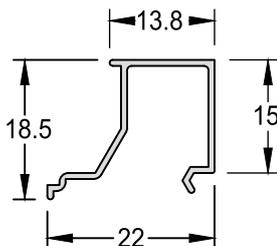
Encaixe: SU-039A/ SU-245A/ SU-040A/
SU-041A/ SU-038A/ SU-243A/ SU-242A/
SU-238A/ SU-111/ 25-016



Baguete do Marco Maxim-ar

SU-103A **0,125 kg/m**

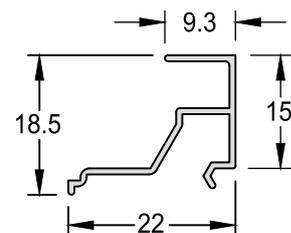
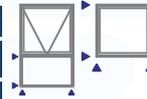
Encaixe: SU-079/ SU-086



Baguete do Marco Maxim-ar

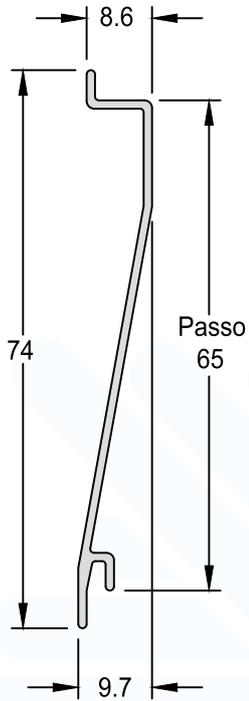
SU-103B **0,124 kg/m**

Encaixe: SU-079/ SU-086



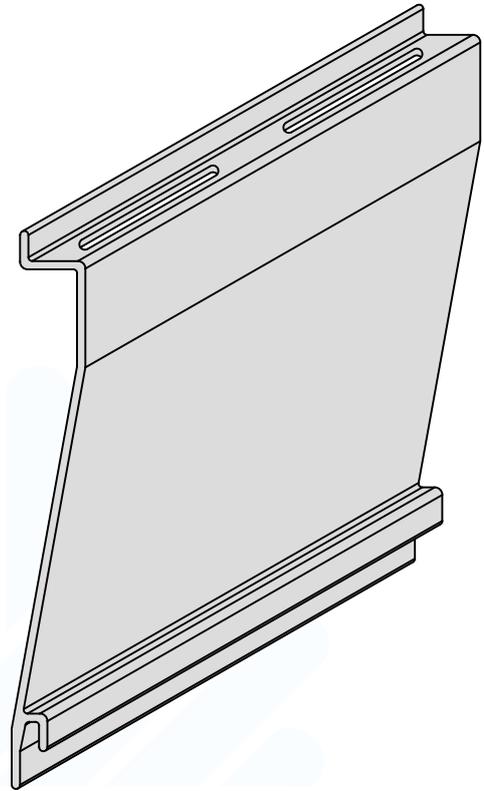
Veneziana Baixa - Cega

VZ-024 0,268 kg/m



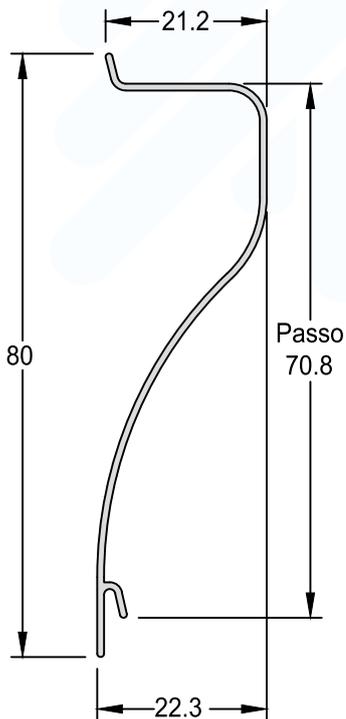
Veneziana Baixa - Ventilada

VZ-024F 0,268 kg/m



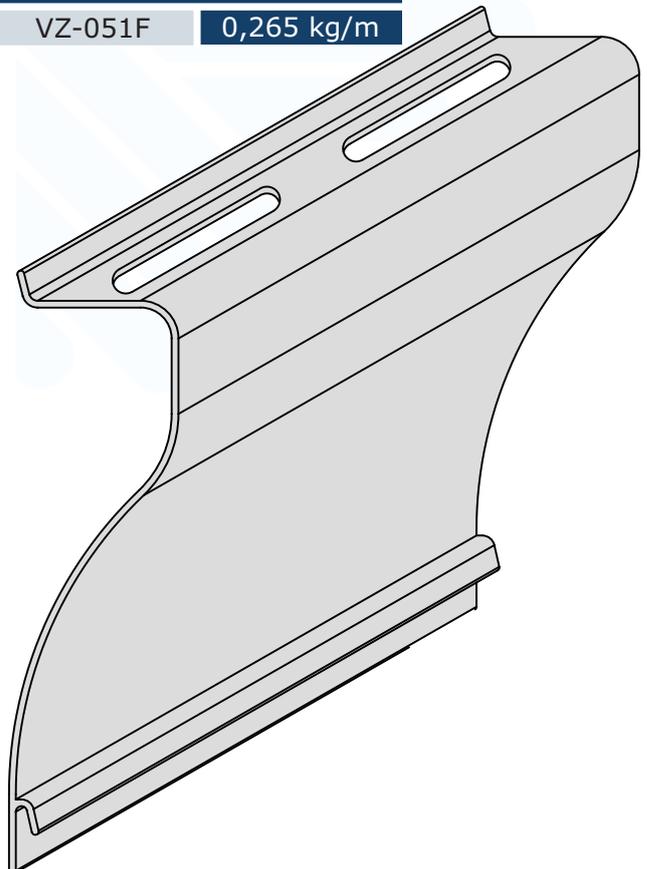
Veneziana - Cega

VZ-051 0,265 kg/m



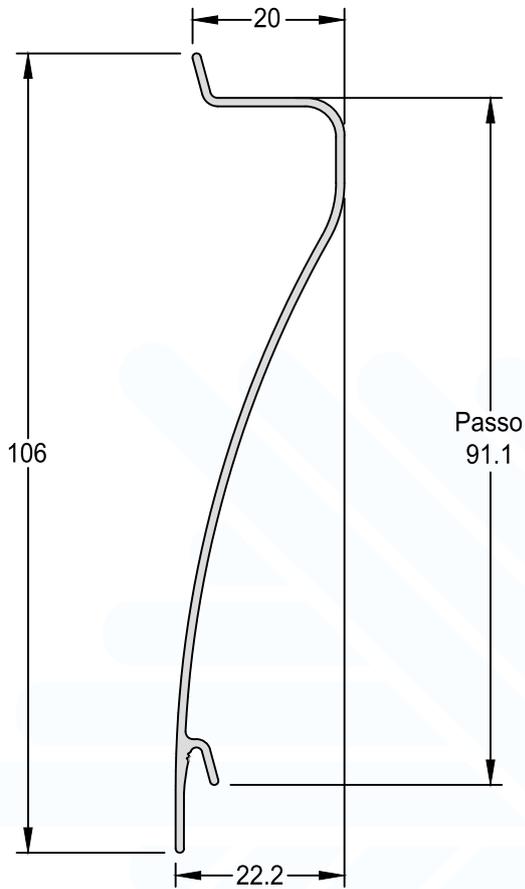
Veneziana - Ventilada

VZ-051F 0,265 kg/m



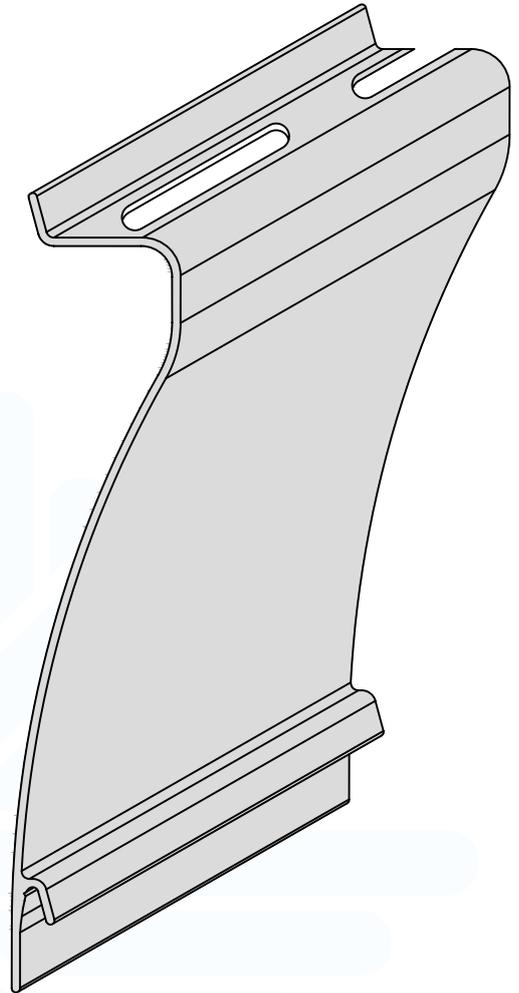
Veneziana - Cega

VZ-106 0,403 kg/m



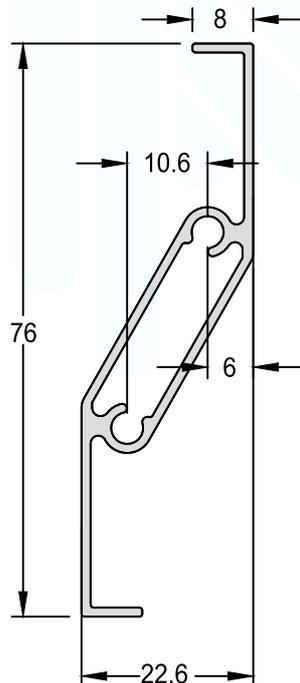
Veneziana - Ventilada

VZ-106F 0,403 kg/m



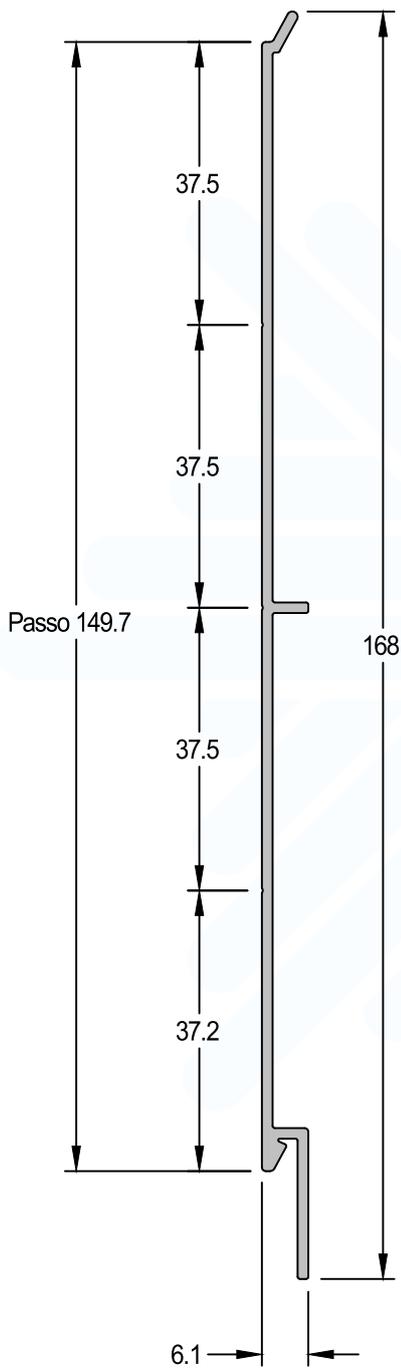
Veneziana - Ventilação Permanente

LG-037 0,513 kg/m

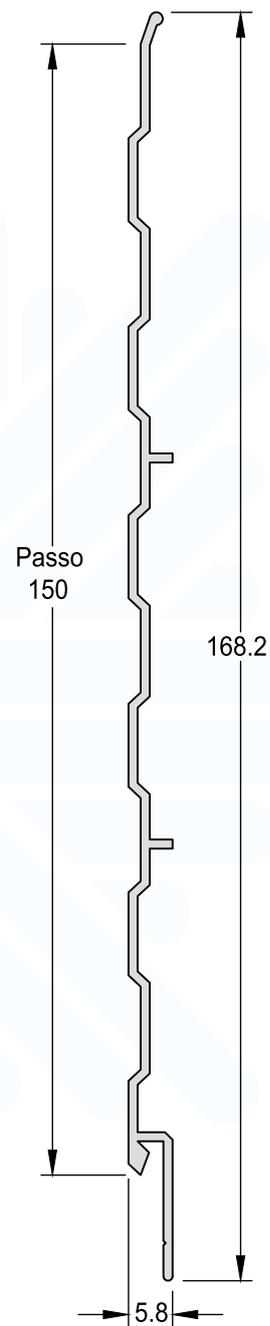


Lambri Liso

LB-035	0,706 kg/m
Medida Padrão	5000mm/6000mm


Lambri Frisado

LB-050	0,628 kg/m
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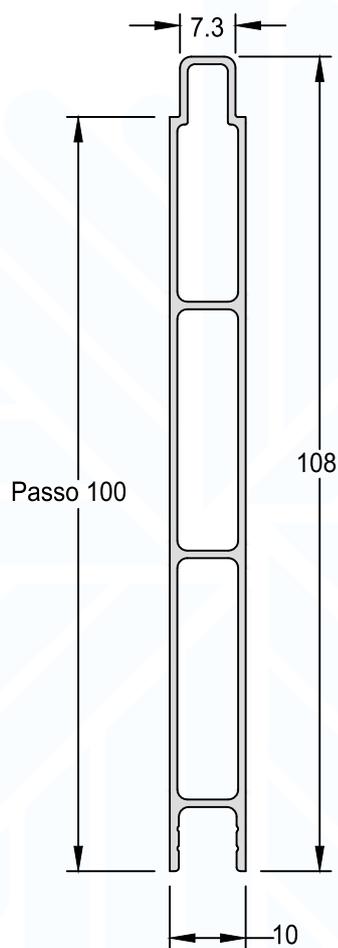


SISTEMA DE ESQUADRIAS LAGUNA 25
 REV02

Lambri Duplo - Liso

LB-061

0,691 kg/m



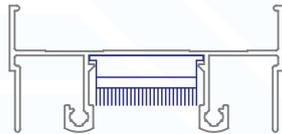
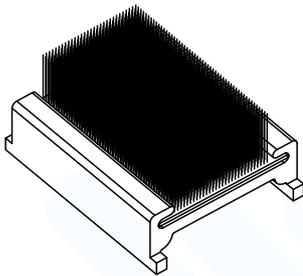
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Vedação Superior

SD-2506

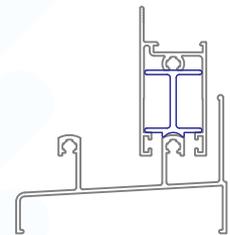
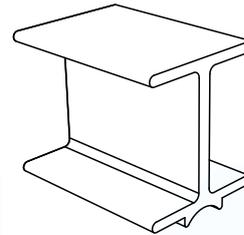
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SU-121



Calço da Folha Fixa

CAL-948

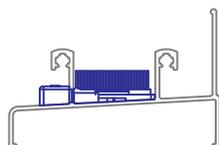
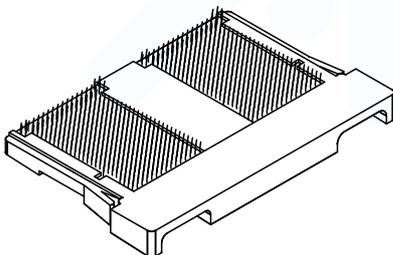
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SU-226/ SU-186/ SU-187A



Caixa de Dreno

SD-2507

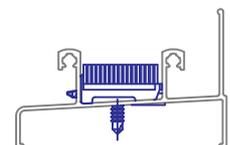
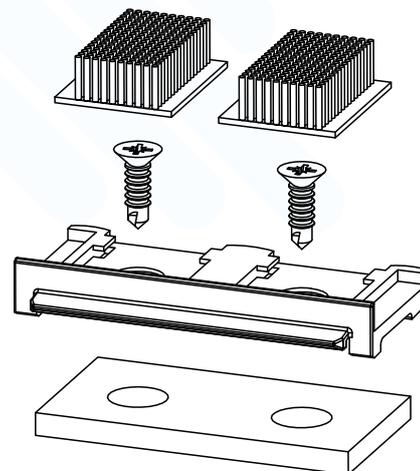
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SU-022/ SU-228/ SU-230/ SU-2523/
SU-2541/ SU-111/ SU-2569/ SU-2621/
SU-2622/ SU-2522



Caixa de Dreno

MAX-VED

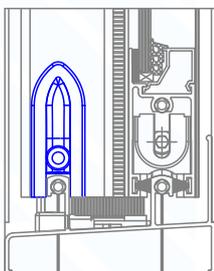
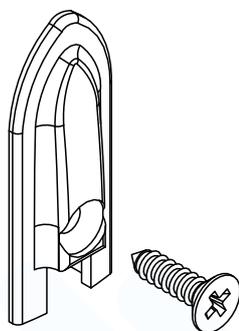
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SU-022/ SU-228/ SU-230/ SU-2523/
SU-2541/ SU-111/ SU-2569/ SU-2621/
SU-2622/ SU-2522



Guia Deslizante

GUI-005

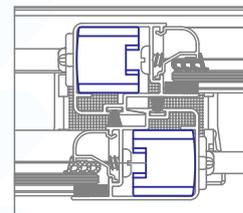
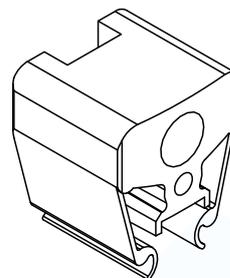
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SU-044/ SU-047/ SU-055/ SU-056/ SU-057/
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SU-2592/ SU-061



Guia Deslizante

VED210/ VED245/ VED280

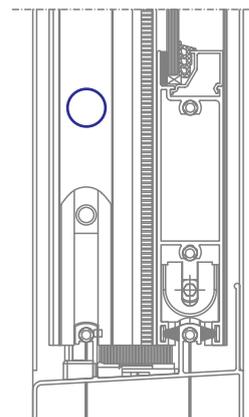
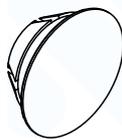
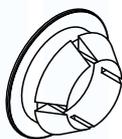
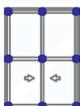
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SU-069/ SU-2586/ SU-2567/ SU-2590/
SU-2592/ SU-061



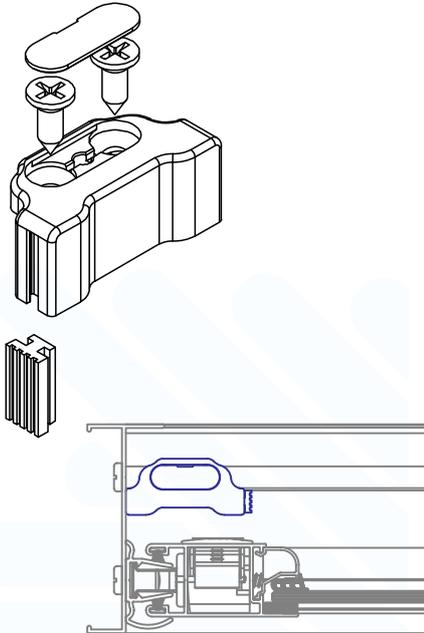
Tapa Furo

NYL-042

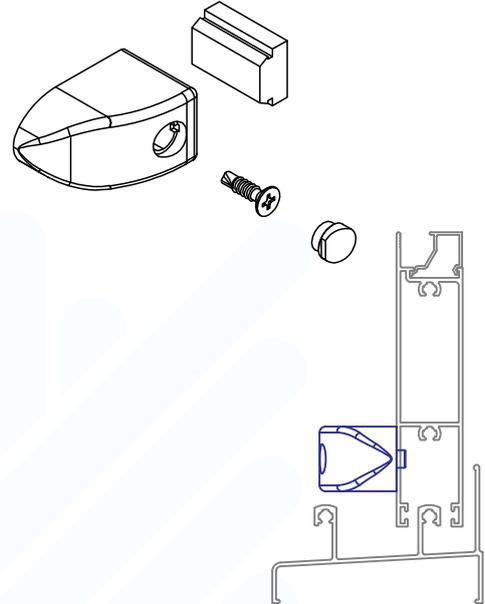
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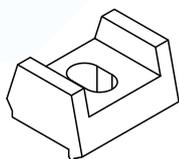
Batedeira
NYL-414
 Encaixe: SU-001/ SU-002/ SU-005/ SU-006
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 SU-2621/ SU-2622/ SU-2522/ SU-022



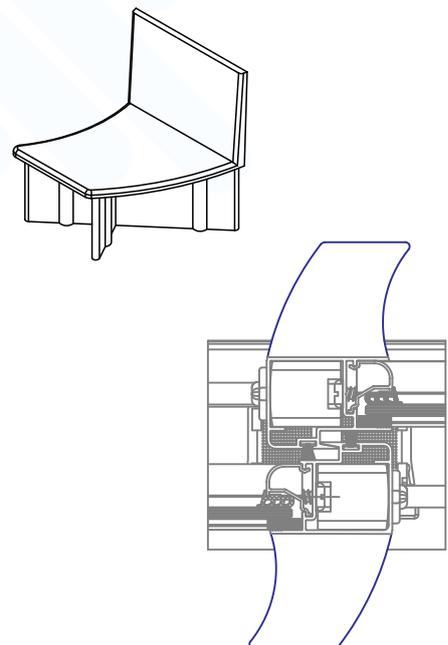
Batedeira Universal
BAT-UNI
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 SU-226/ SU-186/ SU-187A



Persilha de Fixação do Arremate
NYL-190



Tampa do Montante
TPA-2591
 Encaixe: SU-2586/ SU-044/ SU-047/
 SU-2592/ SU-061

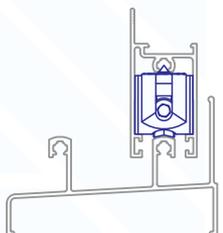
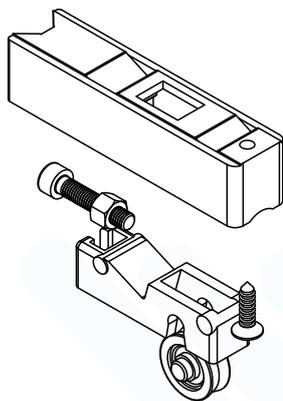


Detalhe de Aplicação Sem Escala

Roldana 20 Kgs

SD-2581

Encaixe: SU-053/ SU-246A/ SU-225/
SU-226/ SU-186/ SU-187A

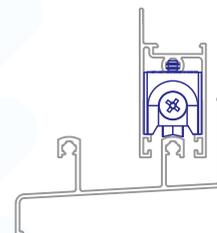
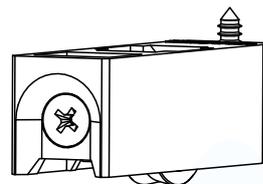


Detalhe de Aplicação Sem Escala

Roldana 40 Kgs

FIT REG/PH

Encaixe: SU-053/ SU-246A/ SU-225/
SU-226/ SU-186/ SU-187A

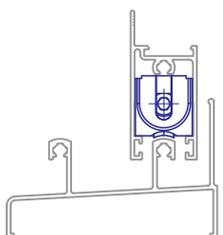
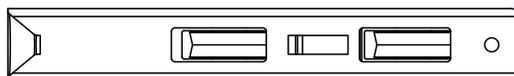


Detalhe de Aplicação Sem Escala

Roldana 40 Kgs

SD-2578

Encaixe: SU-053/ SU-246A/ SU-225/
SU-226/ SU-186/ SU-187A

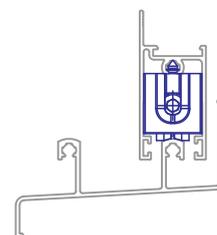
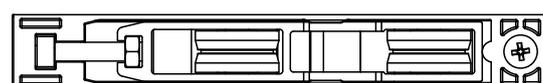
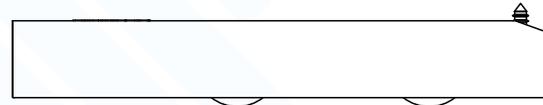


Detalhe de Aplicação Sem Escala

Roldana 50 Kgs

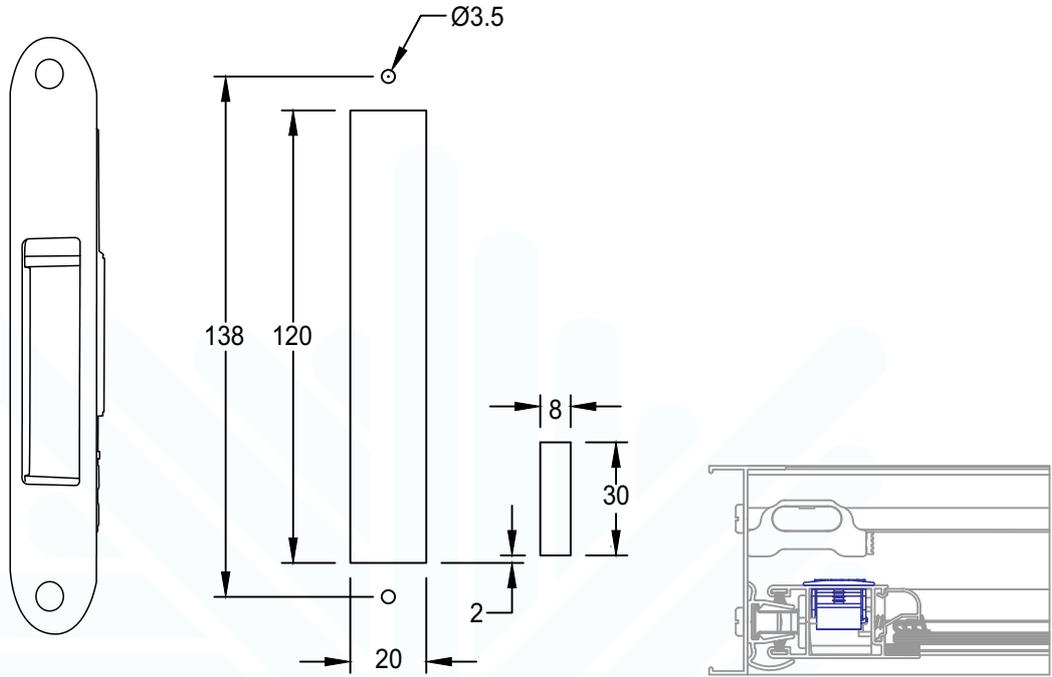
UDIPLUS - 25

Encaixe: SU-053/ SU-246A/ SU-225/
SU-226/ SU-186/ SU-187A



Detalhe de Aplicação Sem Escala

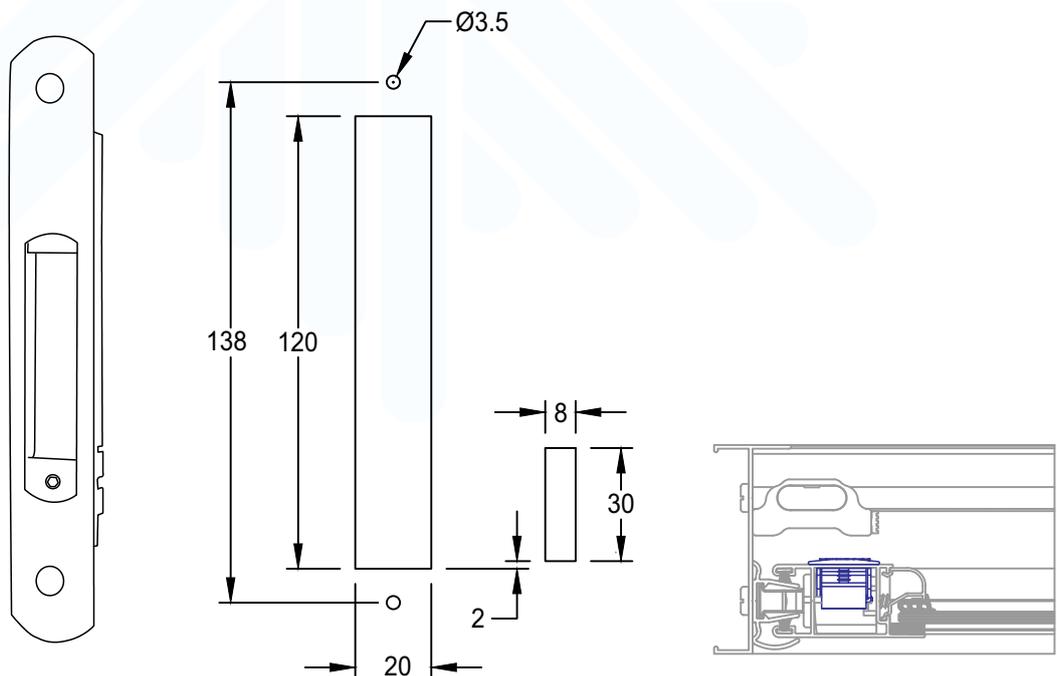
Fecho Concha
CON-7411
 Encaixe: SU-039/ SU-280/ SU-055/
 SU-2586/ SU-2590/ SU-2592



Medidas das usinagens conforme fabricante do componente.

Detalhe de Aplicação Sem Escala

Fecho Concha
CON-2011
 Encaixe: SU-039/ SU-280/ SU-055/
 SU-2586/ SU-2590/ SU-2592



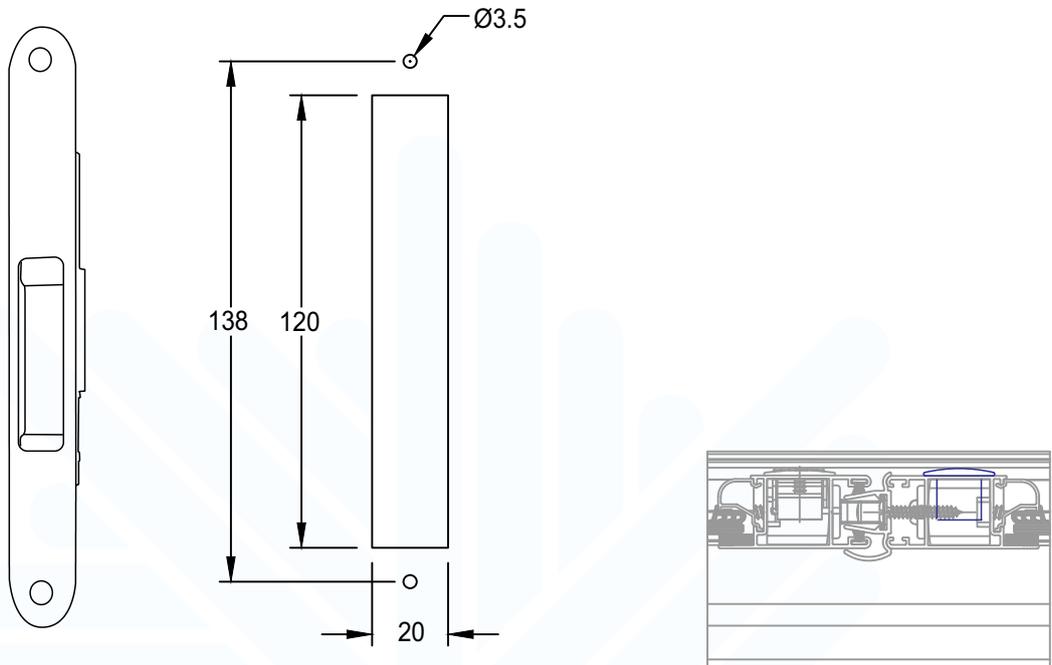
Medidas das usinagens conforme fabricante do componente.

Detalhe de Aplicação Sem Escala

Concha Cega

CON-7311

Encaixe: SU-039/ SU-280/ SU-055/
SU-2586/ SU-2590/ SU-2592



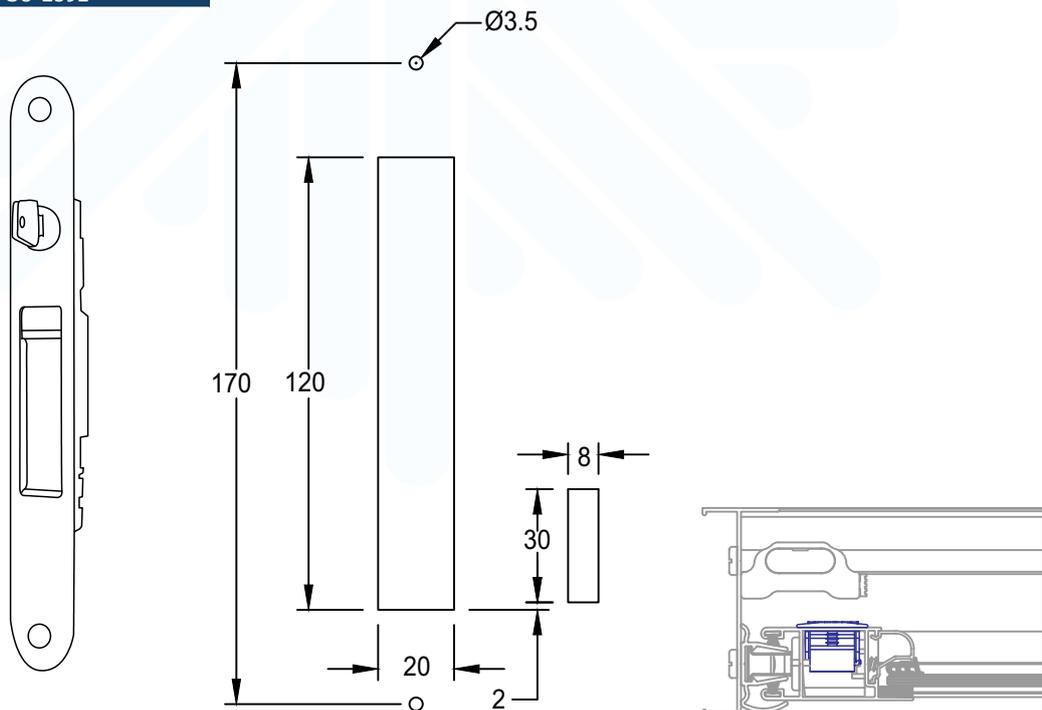
Medidas das usinagens conforme fabricante do componente.

Detalhe de Aplicação Sem Escala

Fecho Concha com Chave

CON-7811AC

Encaixe: SU-039/ SU-280/ SU-055/
SU-2586/ SU-2590/ SU-2592



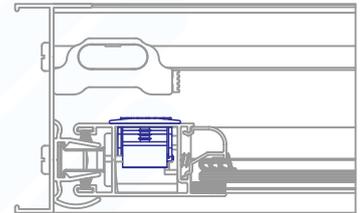
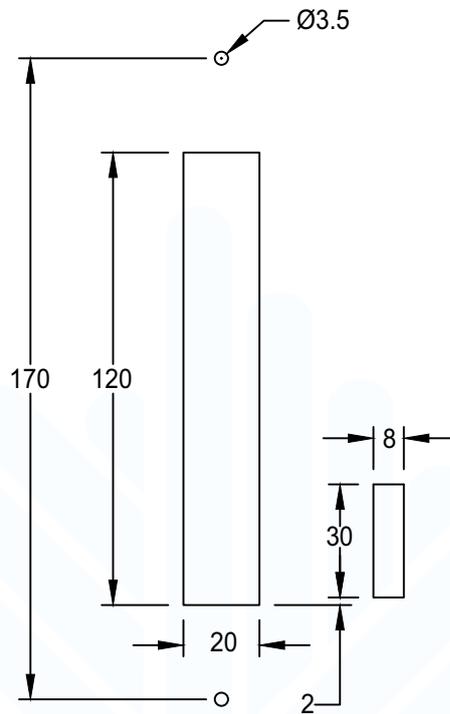
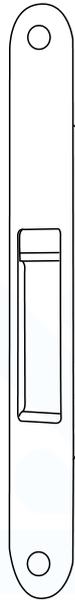
Medidas das usinagens conforme fabricante do componente.

Detalhe de Aplicação Sem Escala

SISTEMA DE ESQUADRIAS LAGUNA 25

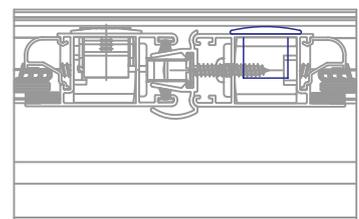
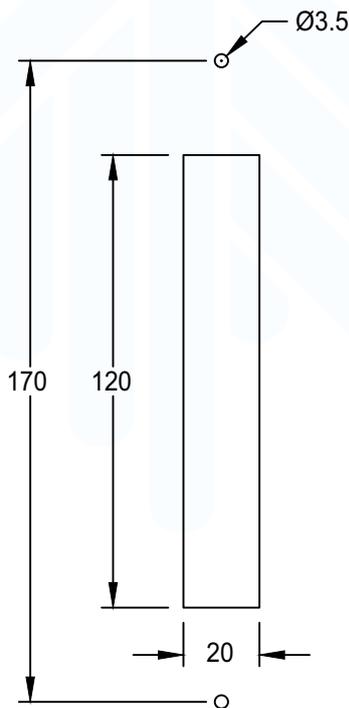
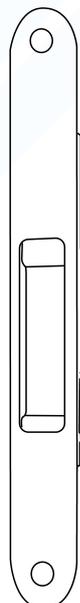
REV02

Fecho Concha
CON-7811
 Encaixe: SU-039/ SU-280/ SU-055/
 SU-2586/ SU-2590/ SU-2592



Medidas das usinagens conforme fabricante do componente.

Concha Cega
CON-7711
 Encaixe: SU-039/ SU-280/ SU-055/
 SU-2586/ SU-2590/ SU-2592

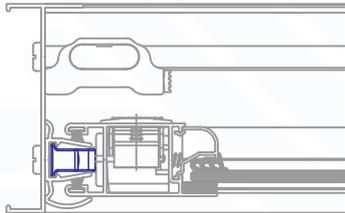
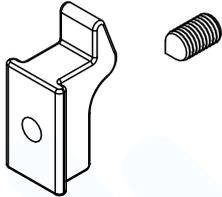


Medidas das usinagens conforme fabricante do componente.

Contra Fecho

SD-2504

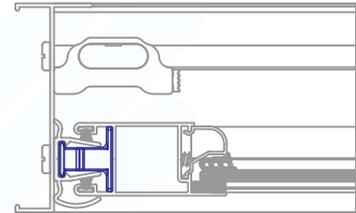
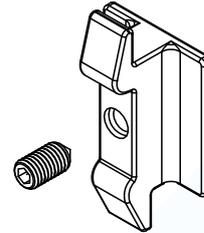
Encaixe: SU-003/ SU-008/ SU-013/
SU-014



Contra Fecho - Folha Fixa

FEC-055

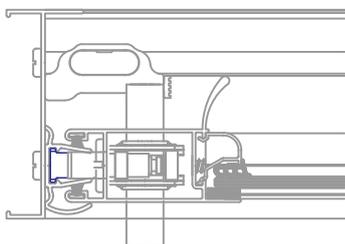
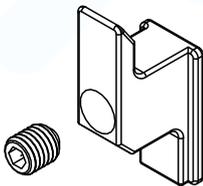
Encaixe: SU-039/ SU-280/ SU-055/
SU-2586/ SU-2590/ SU-2592



Concha Fecho

CON-409

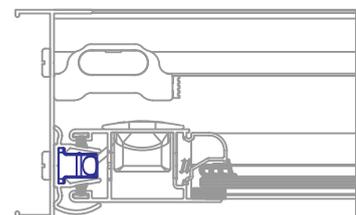
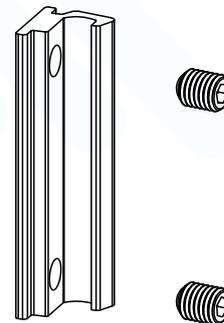
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SU-014



Concha Fecho Touch

CON-TOUCH

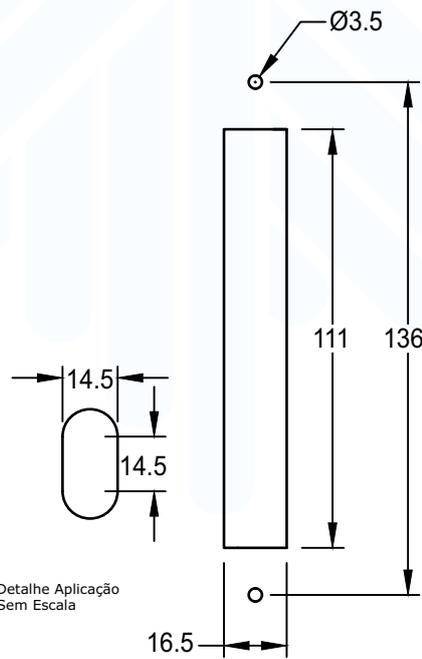
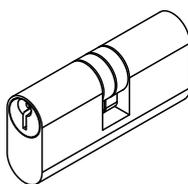
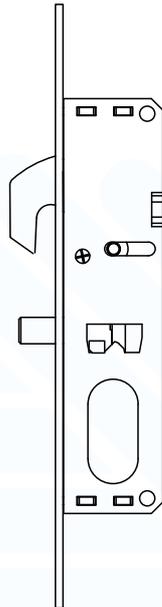
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SU-014



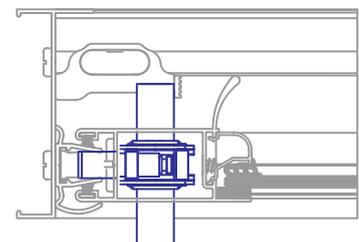
Fechadura - Correr

FRA-815A

Encaixe: SU-280/ SU-2586/ SU-2590/
SU-2592



Detalhe Aplicação Sem Escala

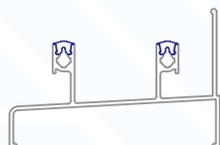
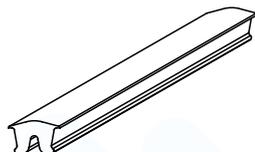


Medidas das usinagens conforme fabricante do componente.

Click de Nylon P/Marco Inferior

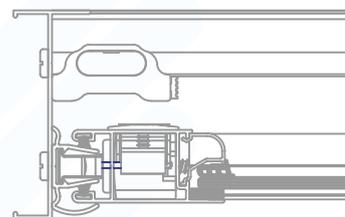
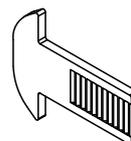
SD-2586

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SU-2621/ SU-2622/ SU-2569/ SU-2522



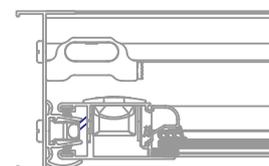
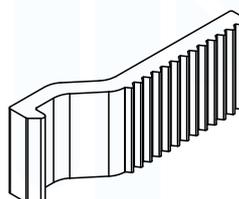
Lingueta Para Fecho Concha

LINCON-337000



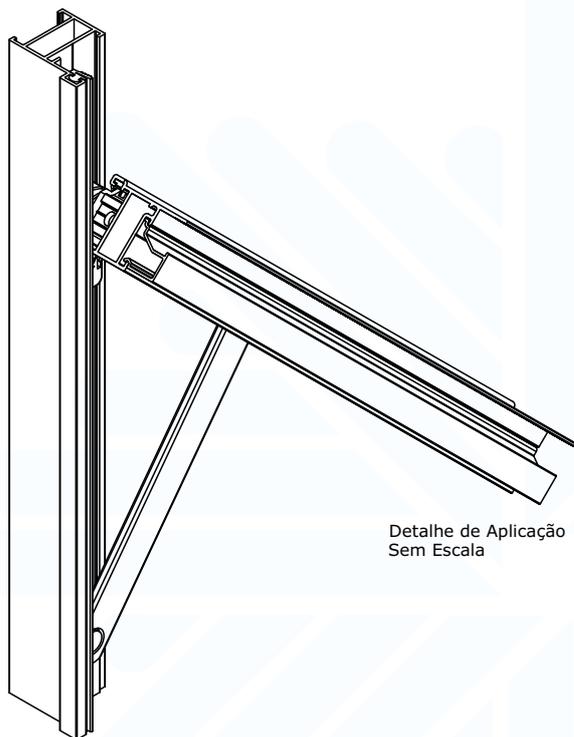
Lingueta Fecho Touch

LIN-7611

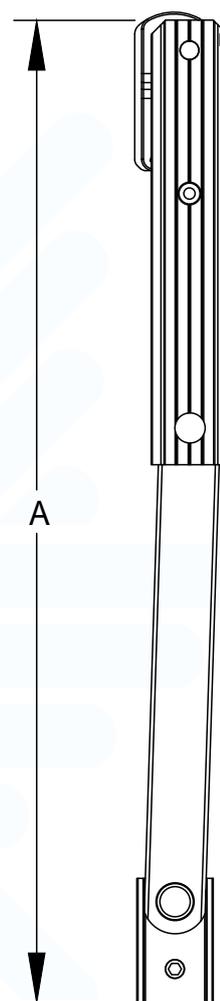


Detalhe de Aplicação
Sem Escala

Braço Maxim-ar
BRA-(Ver Tabela)
 Encaixe: SU-079/ SU-086/ SU-200

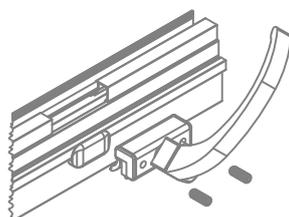
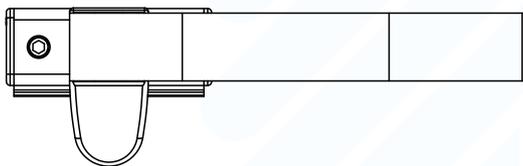
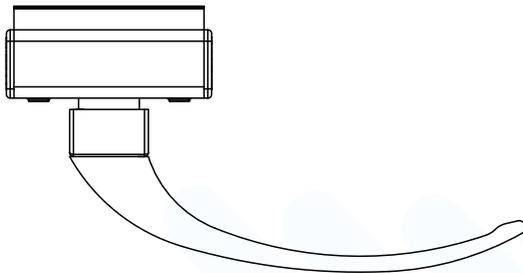


Detalhe de Aplicação
Sem Escala

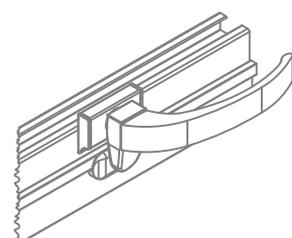
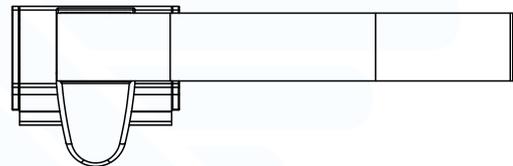
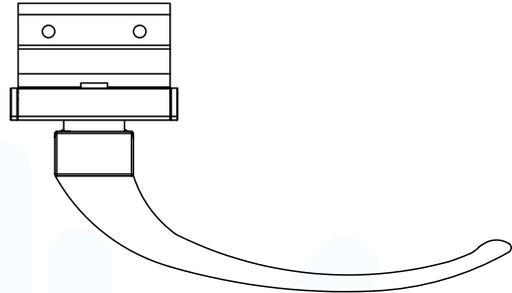


CÓDIGO	DIMENSÃO	LARGURA	ALTURA DA FOLHA		CARGA
			MÁXIMA (MM)	MÍNIMA (MM)	
BRA-705	250	750	270	500	6
BRA-704	400	750	400	650	8
BRA-702	500	750	520	810	10
BRA-703	750	750	810	900	11
BRA-725	810	750	900	1200	15

Fecho Maxim-ar
FEC-009



Fecho Maxim-ar
FEC-010

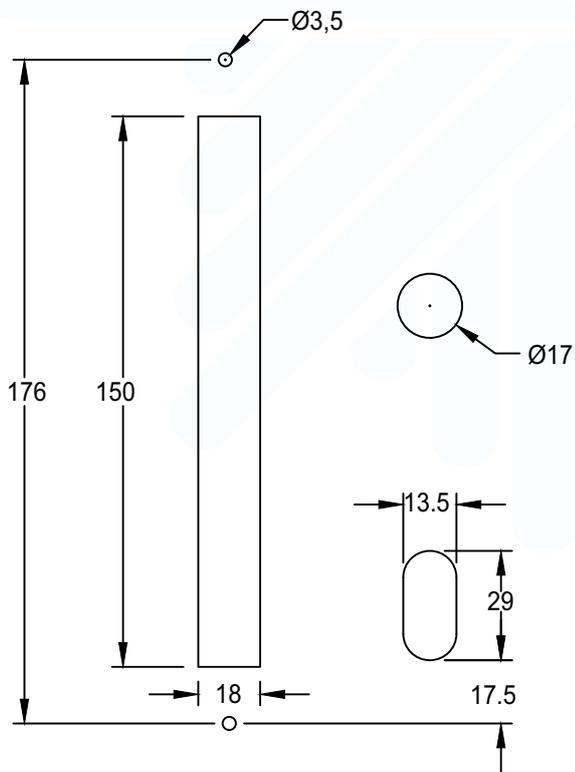
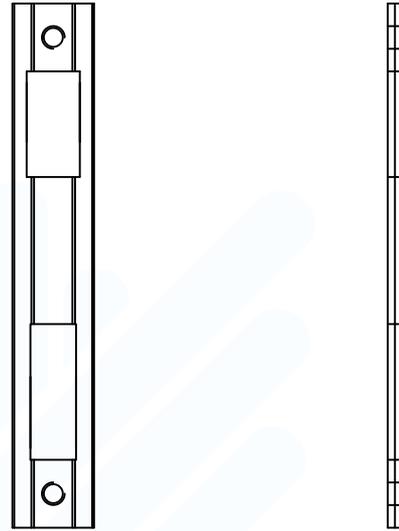
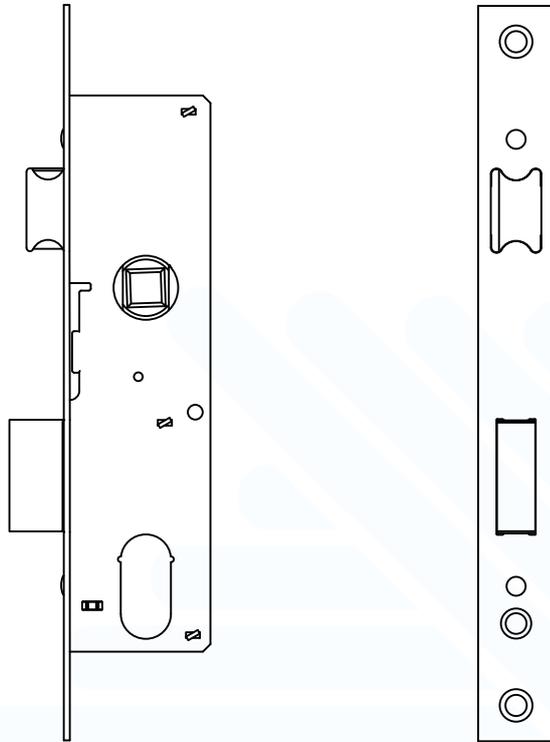


Detalhe de Aplicação
Sem Escala

Fechadura
FRA-323
Encaixe: SU-111/ 25-542A



Contra Testa
CON-295
Encaixe: 25-540/ 25-504/ 25-548



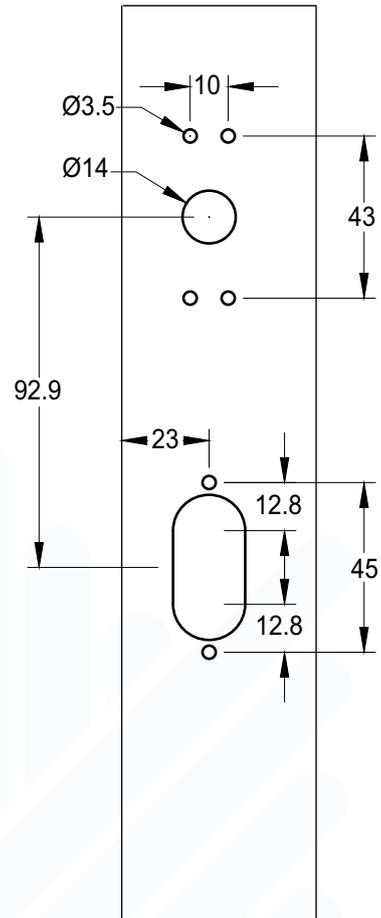
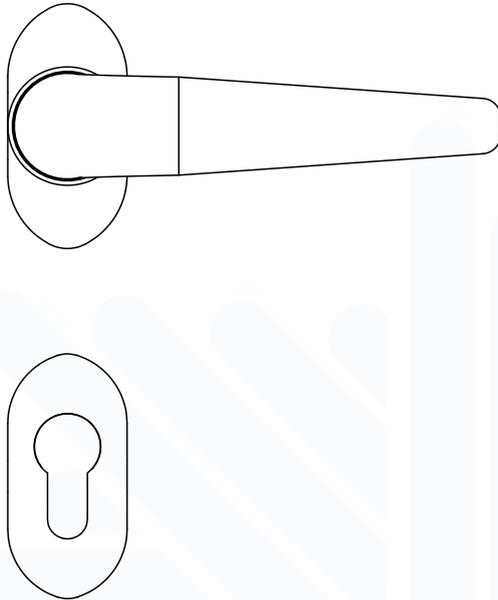
Detalhe Aplicação
Sem Escala

Medidas das usinagens conforme fabricante do componente.

Maçaneta Roseta

MAC-EURO

Encaixe: SU-111/ 25-542A

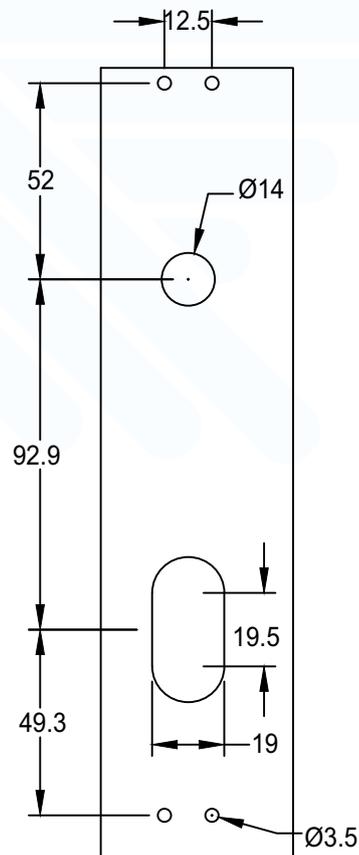
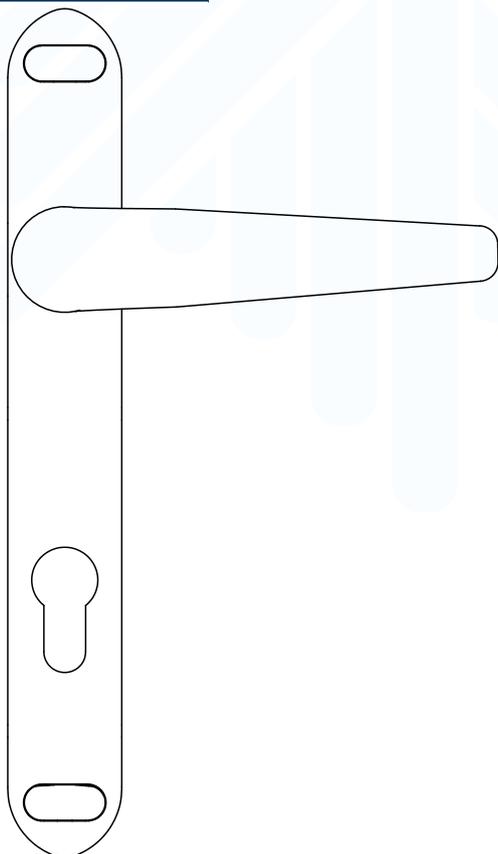


Medidas das usinagens conforme fabricante do componente.

Maçaneta Roseta

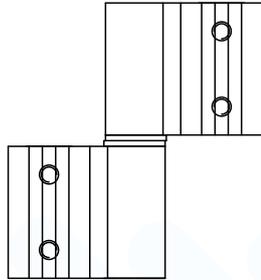
MAC-EURO

Encaixe: SU-111/ 25-542A

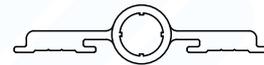
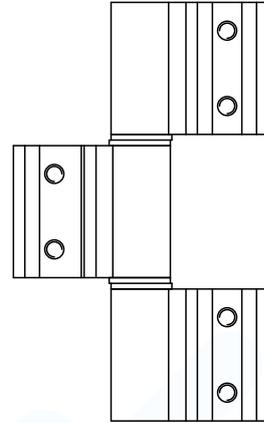


Medidas das usinagens conforme fabricante do componente.

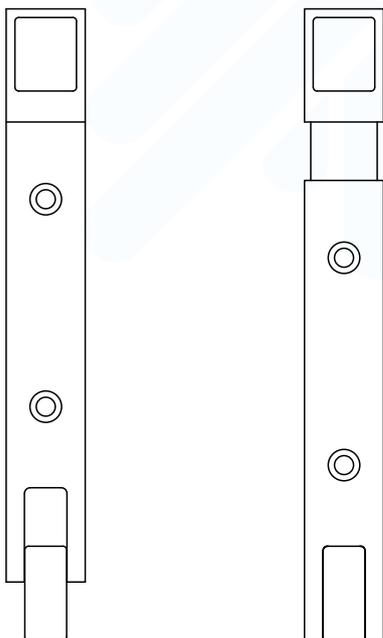
Dobradiça 2 Abas
DOB-840
 Encaixe: SU-065/ SU-064/ 25-540/
 25-504/ 25-542A/ SU-111

Dobradiça 3 Abas
DOB-840
 Encaixe: SU-065/ SU-064/ 25-540/
 25-504/ 25-542A/ SU-111

Fecho Unha
FEC-1920CF
 Encaixe: SU-111/ 25-542A

Contra Fechos



Vedação Inferior Porta

VEDPORIN

Encaixe: SU-111/ 25-542A



VERSÕES

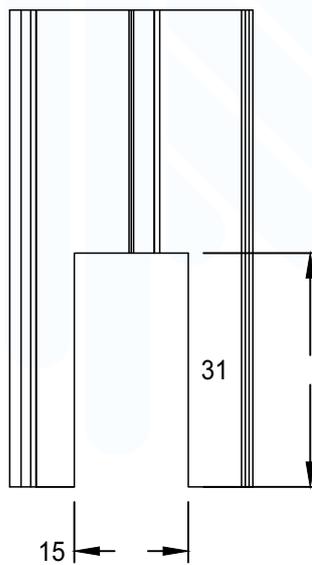
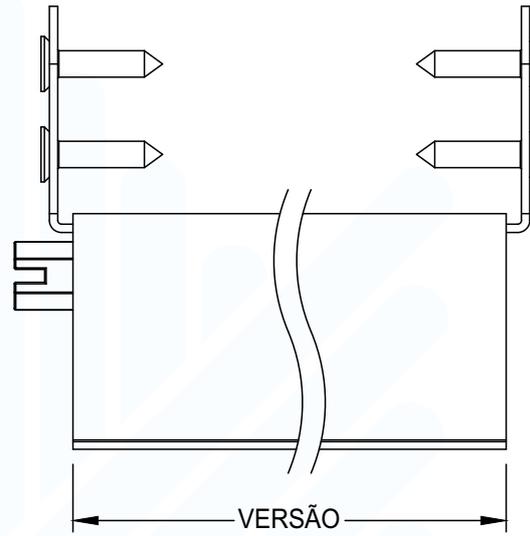
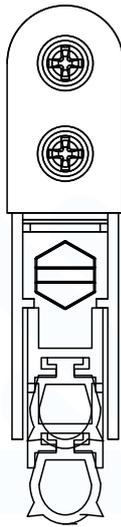
620

720

820

920

1020



Medidas das usinagens conforme fabricante do componente.

Parafuso AA Ø3,5 X9,5

PAR-437

Uso: Fixação Mata Junta Lateral



Parafuso AA Ø4,2 X16

PAR-936

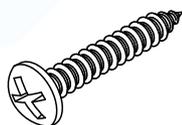
Uso: Fixação Presilha do Arremate



Parafuso AA Ø4,2 X25

PAR-963

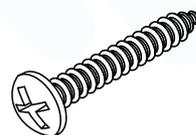
Uso: Fixação Marco Maxim-ar



Parafuso AA Ø4,2 X32

PAR-694

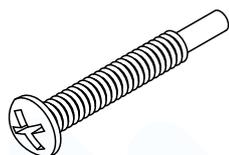
Uso: Fixação Marco Porta de Giro



Parafuso PG Ø4,8 X38

PAR-428

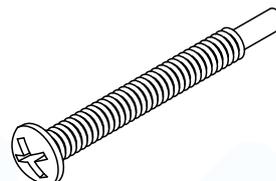
Uso: Fixação Marco



Parafuso PG Ø4,8 X50

PAR-431

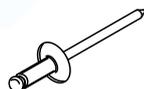
Uso: Fixação Folhas



Rebite Ø3,2 X10,2

REB-440

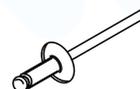
Uso: Fixação Pingadeira Maxim-ar



Rebite Ø4,0 X10,2

REB-540

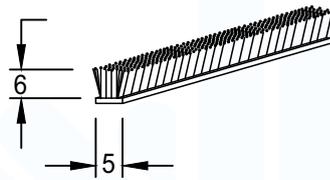
Uso: Fixação Pingadeira Maxim-ar



Escova 5x6

FIT-206

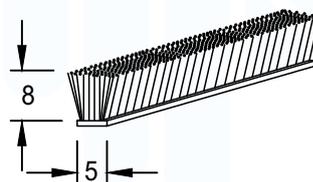
Uso: Folha Mão de Amigo e Lateral



Escova 5x8

FIT-212

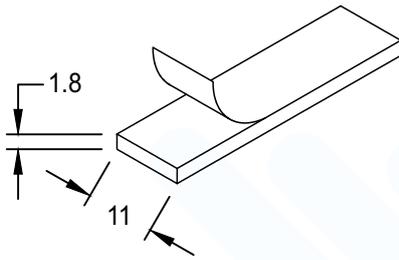
Uso: Folha Inferior e Superior Horizontal



Espuma Adesiva

GUA-172

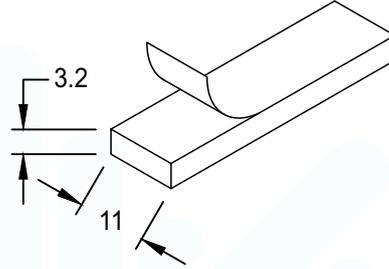
Uso: Vidros



Espuma Adesiva

GUA-171

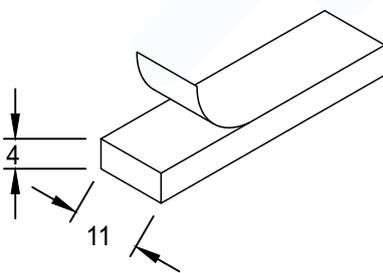
Uso: Vidros



Espuma Adesiva

GUA-258

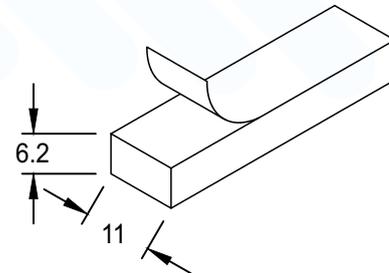
Uso: Vidros



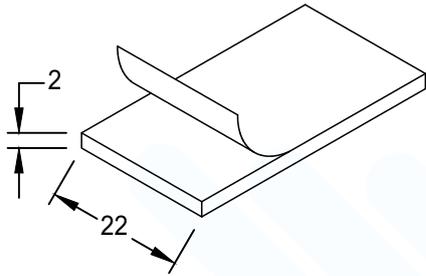
Espuma Adesiva

GUA-157

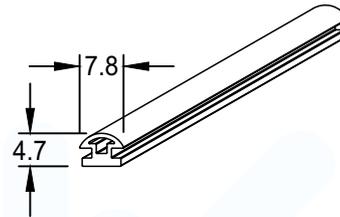
Uso: Vidros



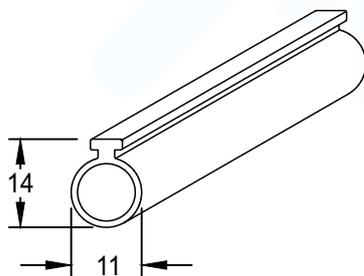
Espuma Adesiva
GUA-282
Uso: Vidros



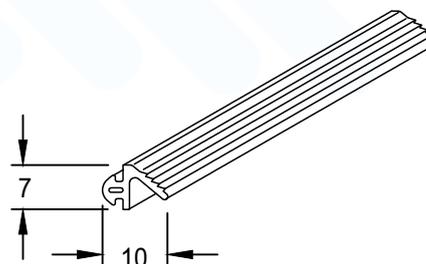
Guarnição EPDM
GUA-053
Uso: SU-200



Guarnição EPDM
GUA-007
Uso: SU-083



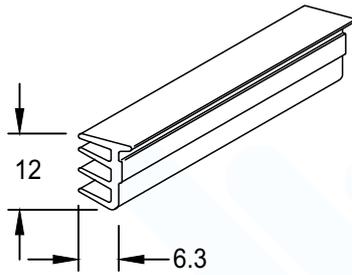
Guarnição EPDM
GUA-239
Uso: SU-079/ SU-086



Guarnição EPDM

GUA-256

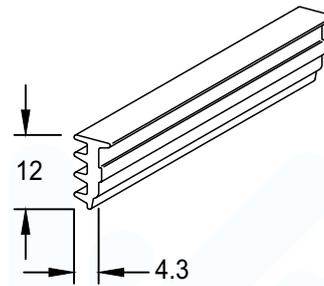
Uso: Vidros



Guarnição EPDM

GUA-259

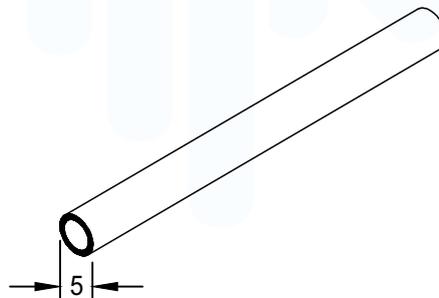
Uso: Vidros

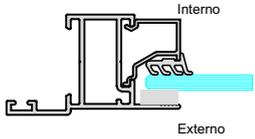
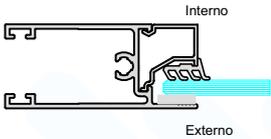
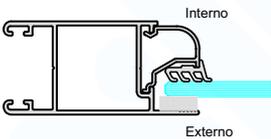


Guarnição EPDM

GUA-006

Uso: Integrada/ Tela Mosquiteira



Detalhe De Aplicação	Espessura Do Vidro (mm)	Baguete	Guarnição Interna	Guarnição Externa
 <p>Folhas Maxim Ar</p>	4	SU-102A / SU102B	GUA-256	GUA-157
	5	SU-102A / SU102B	GUA-256	GUA-258
	6	SU-102A / SU102B	GUA-259	GUA-157
	8	SU-102C	GUA-259	GUA-258
 <p>Folhas Horizontais</p>	4	SU-102A / SU102B	GUA-256	GUA-157
	5	SU-102A / SU102B	GUA-256	GUA-171
	6	SU-102A / SU102B	GUA-259	GUA-171
	8	SU-102C	GUA-259	GUA-172
 <p>Folhas Verticais</p>	4	SU-102A / SU102B	GUA-256	GUA-157
	5	SU-102A / SU102B	GUA-256	GUA-258
	6	SU-102A / SU102B	GUA-259	GUA-258
	8	SU-102C	GUA-259	GUA-258

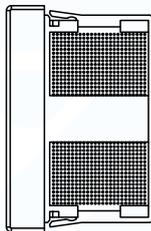
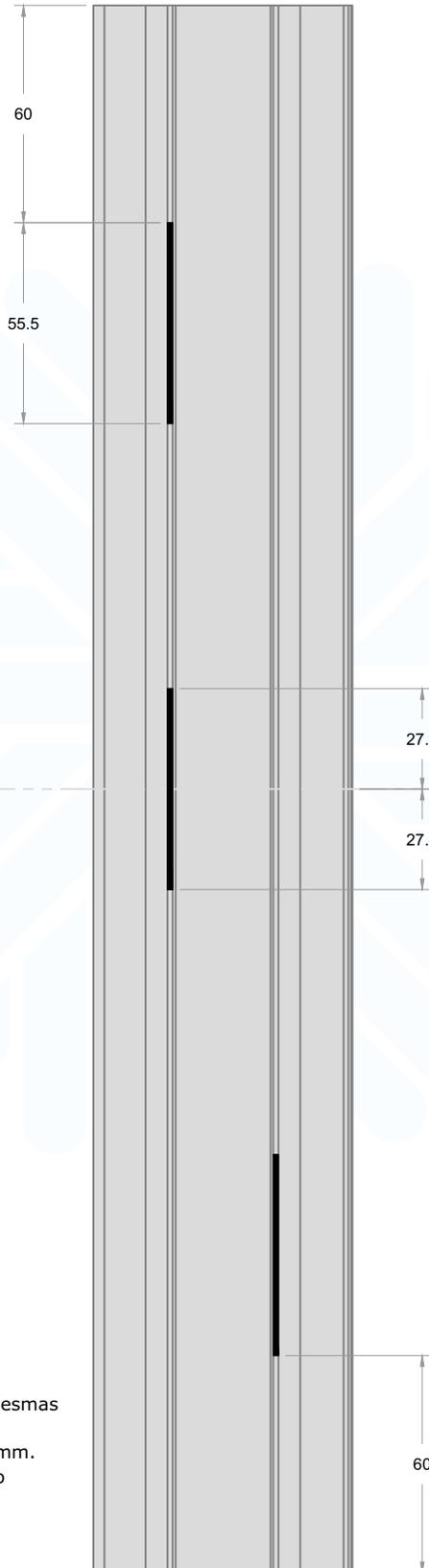
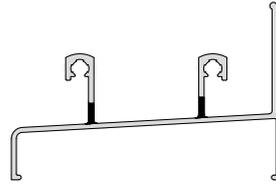
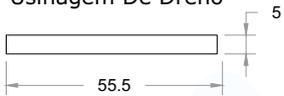
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PERFIS

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- SU-2541
- SU-228
- SU-2523
- SU-006
- SU-2542
- SU-2569
- SU-2522
- SU-022

Usinagem De Dreno



Observações:

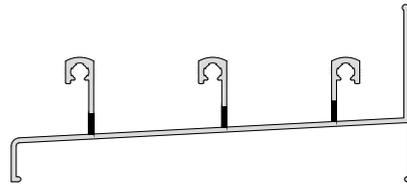
- * Os drenos devem ser feitos sempre no sentido contrário da folha quando as mesmas estiverem fechadas.
- * Distância máxima entre os drenos 450mm.
- * Para vãos maiores, deve-se aumentar o número de drenos.

PERFIS

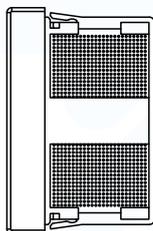
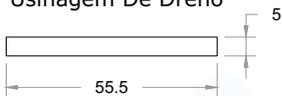
SU-011

SU-230

SU-2622



Usinagem De Dreno



Observações:

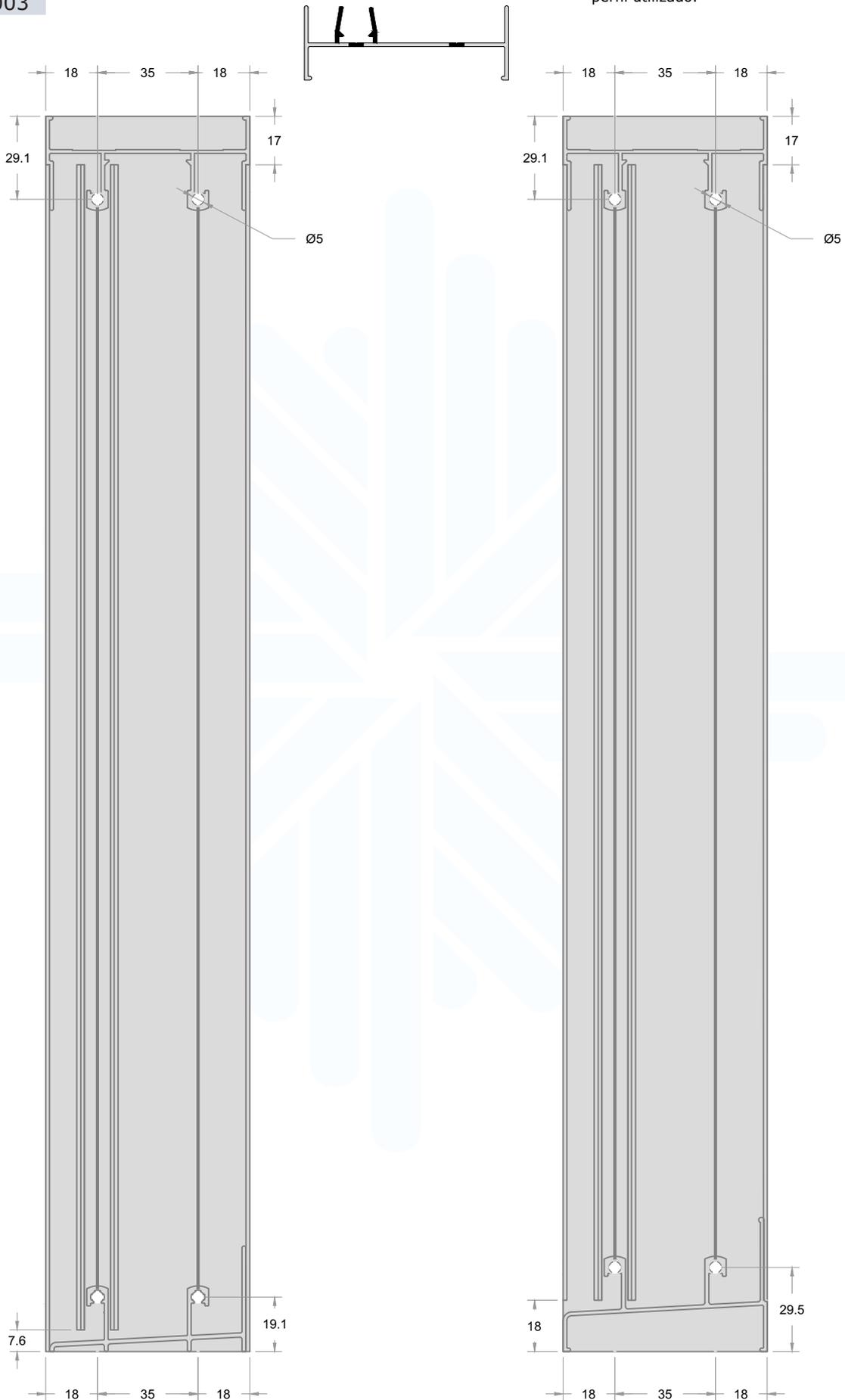
- * Os drenos devem ser feitos sempre no sentido contrário da folha quando as mesmas estiverem fechadas.
- * Distância máxima entre os drenos 450mm.
- * Para vãos maiores, deve-se aumentar o número de drenos.

60

PERFIS
SU-003

Observações:

* Furações dos trilhos inferiores conforme perfil utilizado.

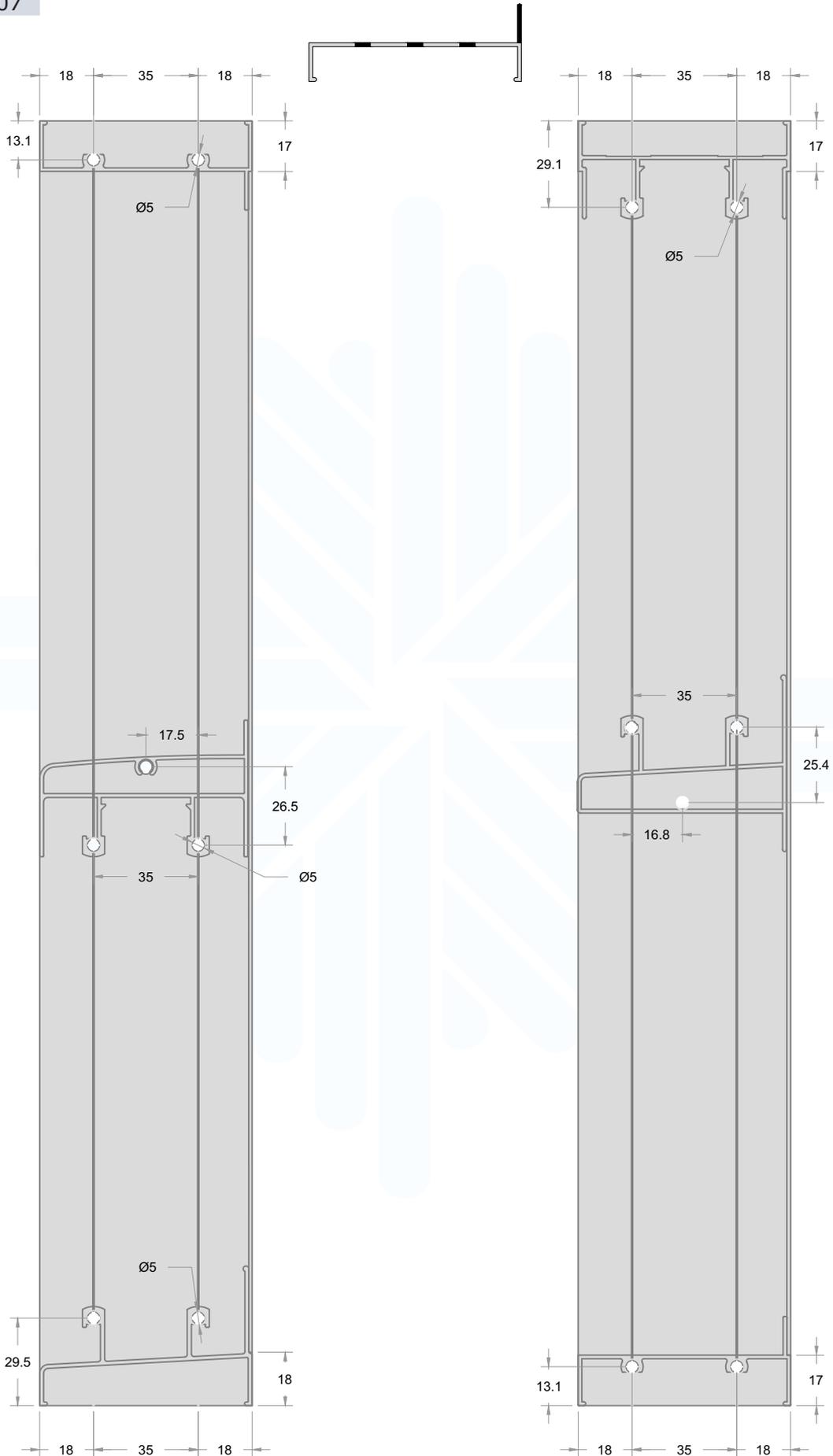


SISTEMA DE ESQUADRIAS **LAGUNA 25**
REV02

PERFIS
SU-007

Observações:

- * Furações dos trilhos inferiores conforme perfil utilizado.
- * Atentar-se a furação da travessa da bandeira.

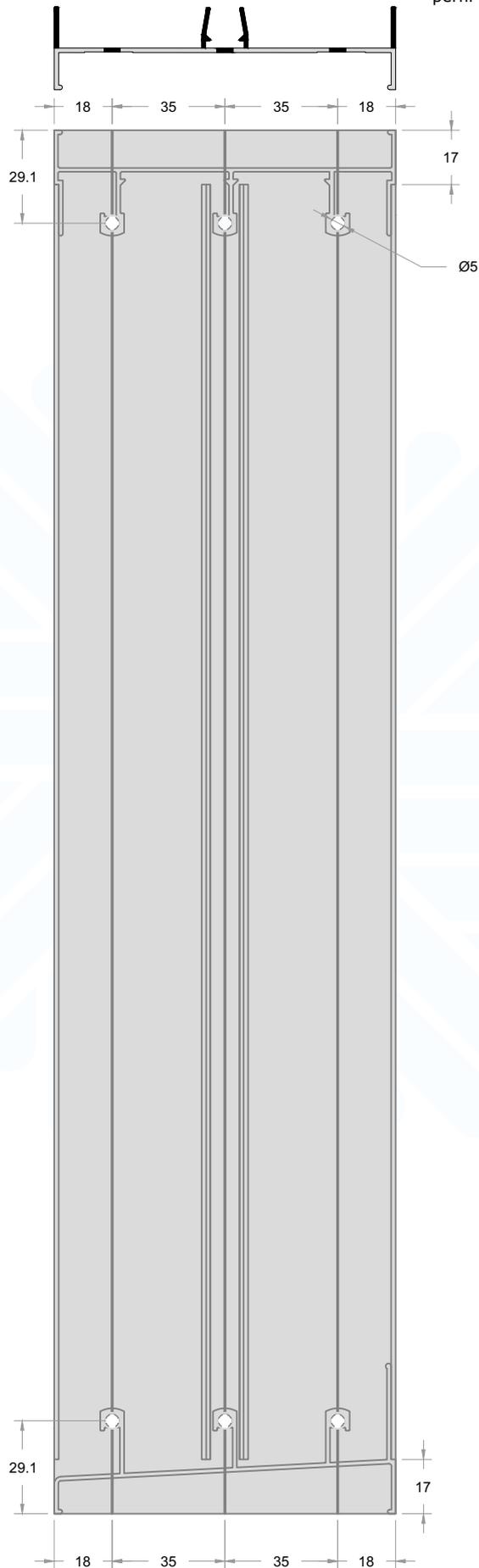


SISTEMA DE ESQUADRIAS LAGUNA 25
REV02

PERFIS
SU-014

Observações:

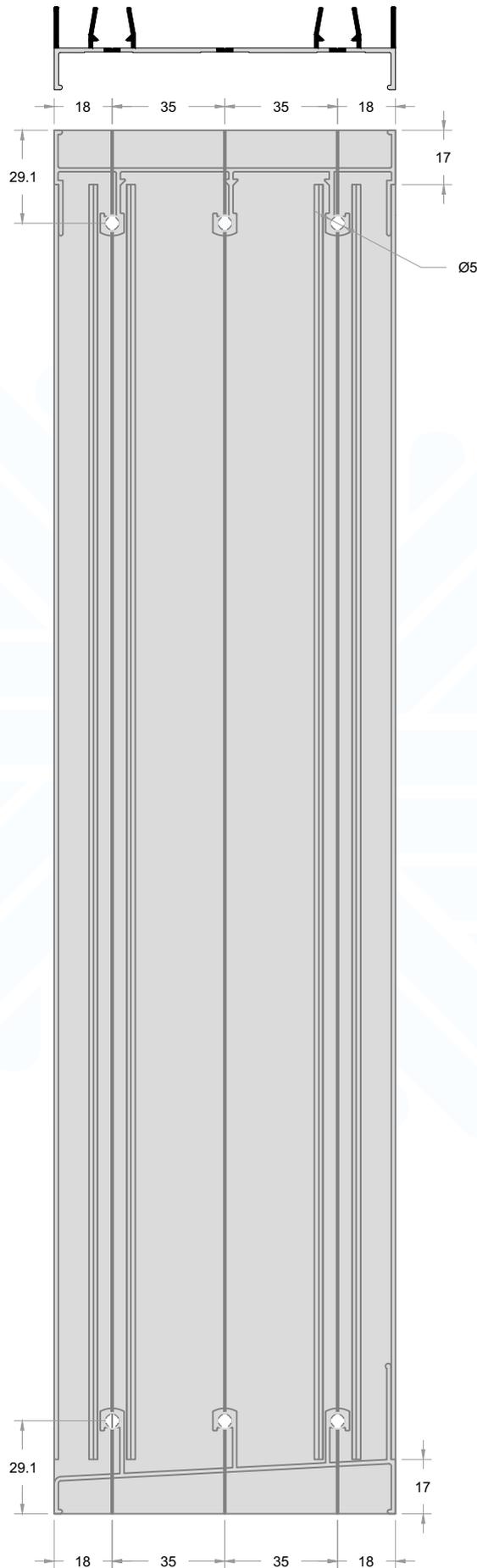
* Furações dos trilhos inferiores conforme perfil utilizado.



PERFIS
SU-013

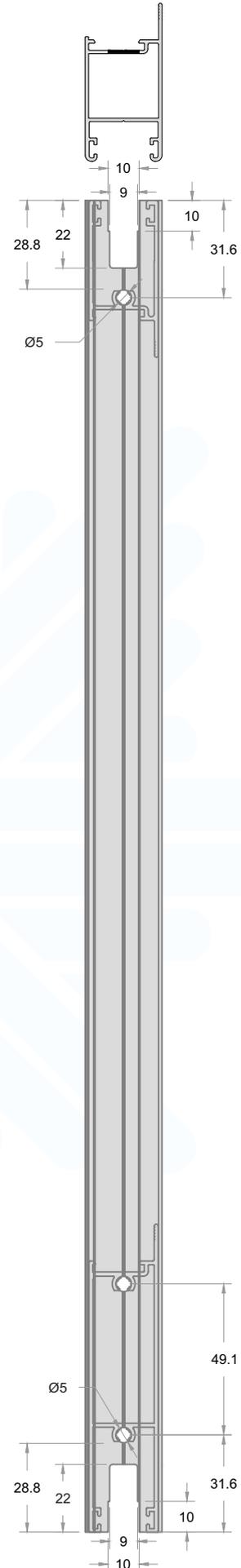
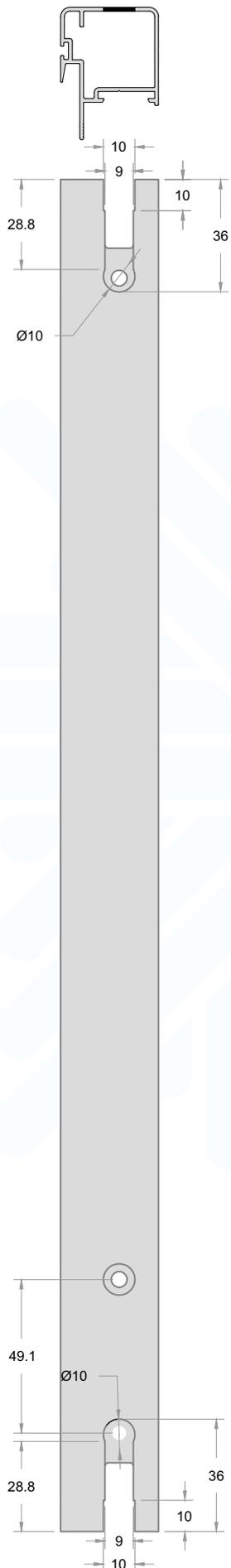
Observações:

* Furações dos trilhos inferiores conforme perfil utilizado.



SISTEMA DE ESQUADRIAS LAGUNA 25
REV02

PERFIS
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SU-280
SU-040
SU-041
SU-044
SU-047
SU-055
SU-056
SU-069
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SU-2586
SU-2592
SU-2590
SU-061
SU-057

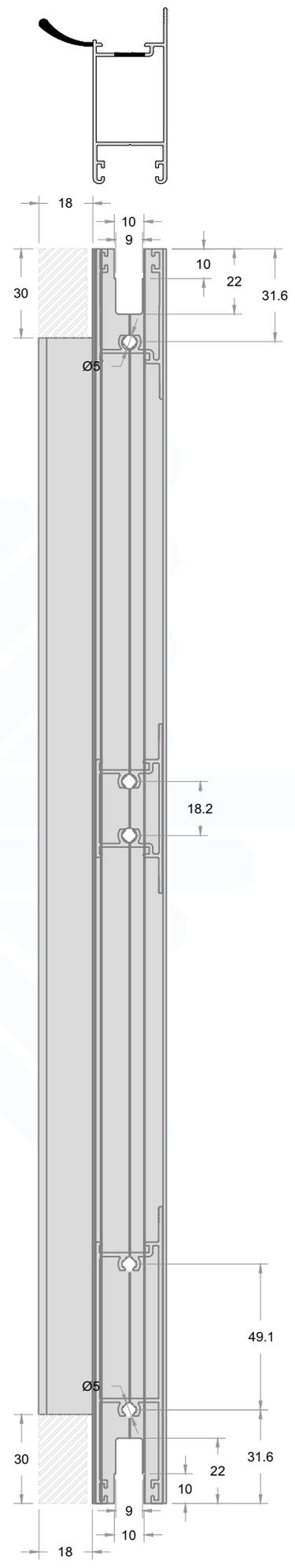
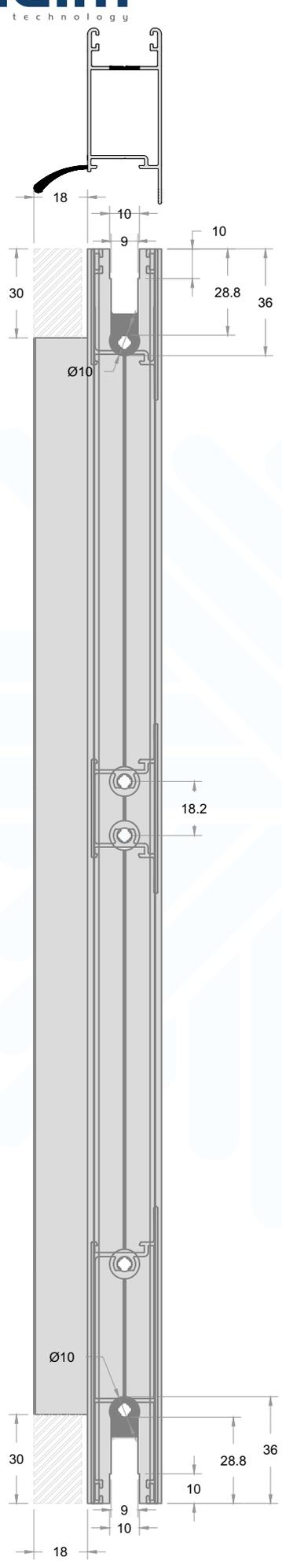


SISTEMA DE ESQUADRIAS  LAGUNA 25

REV02

PERFIS

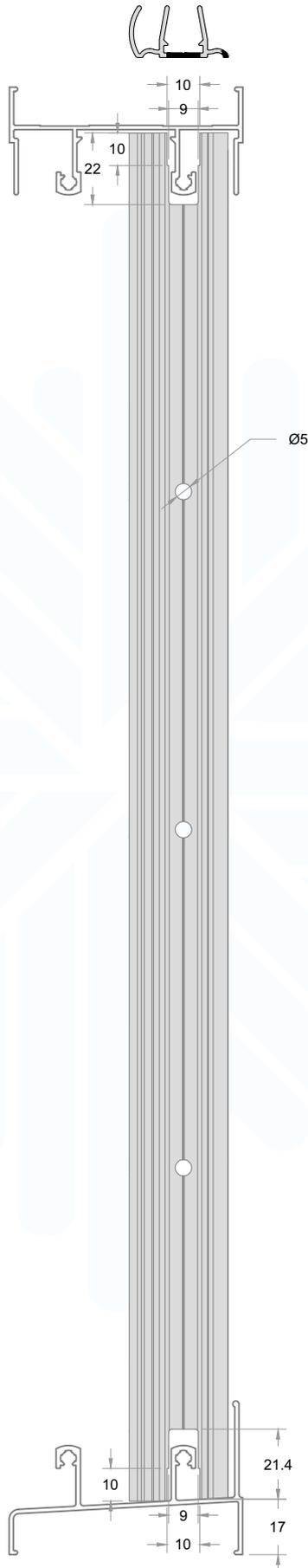
- SU-280
- SU-044
- SU-047
- SU-2586
- SU-2590
- SU-2592
- SU-061



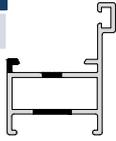
SISTEMA DE ESQUADRIAS LAGUNA 25

REV02

PERFIS
SU-008



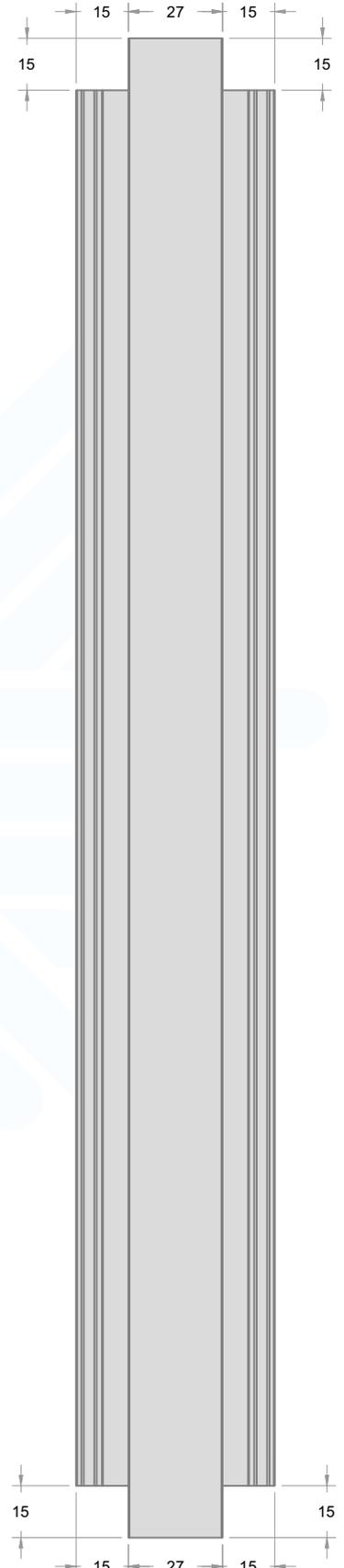
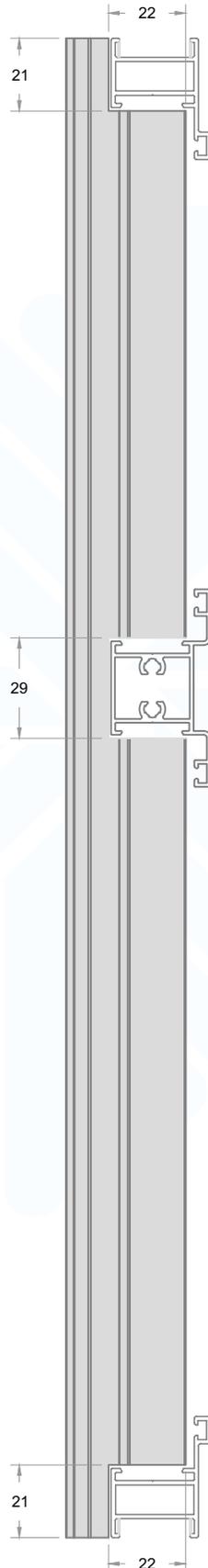
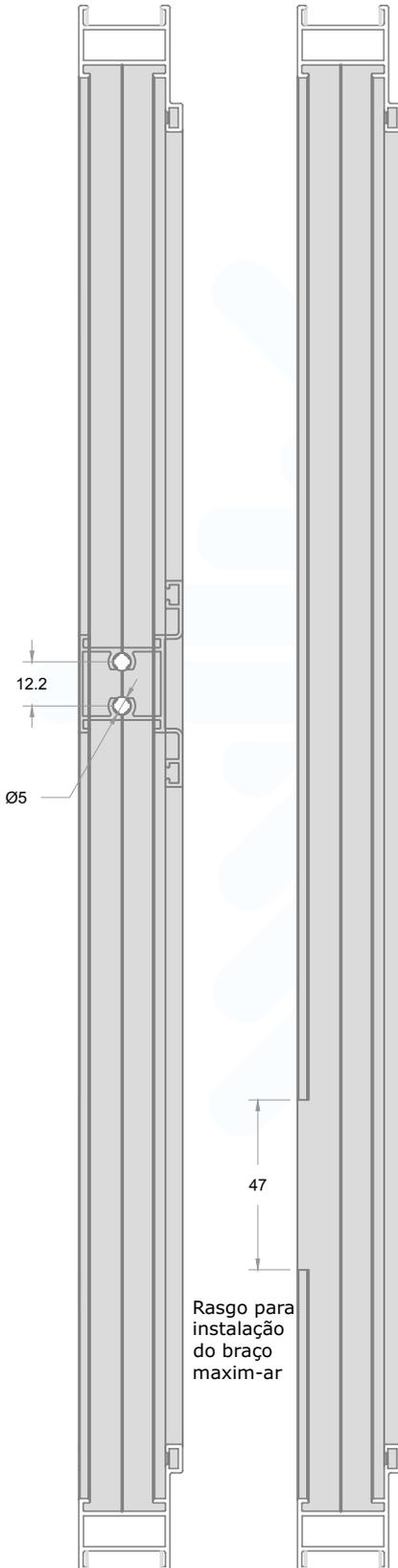
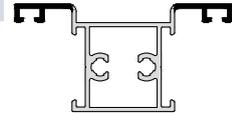
PERFIS
SU-079



PERFIS
SU-083

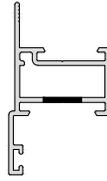
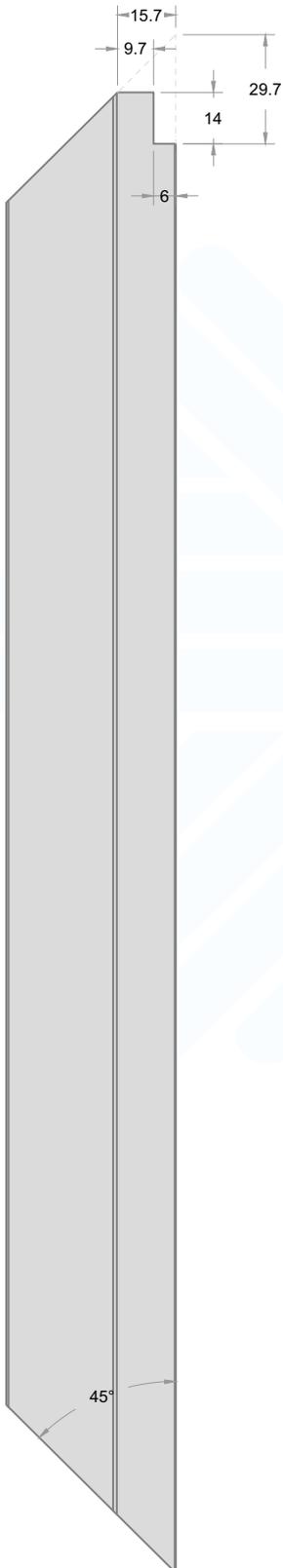
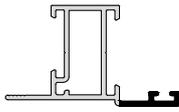


PERFIS
SU-086

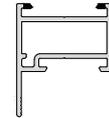


SISTEMA DE ESQUADRIAS LAGUNA 25
REV02

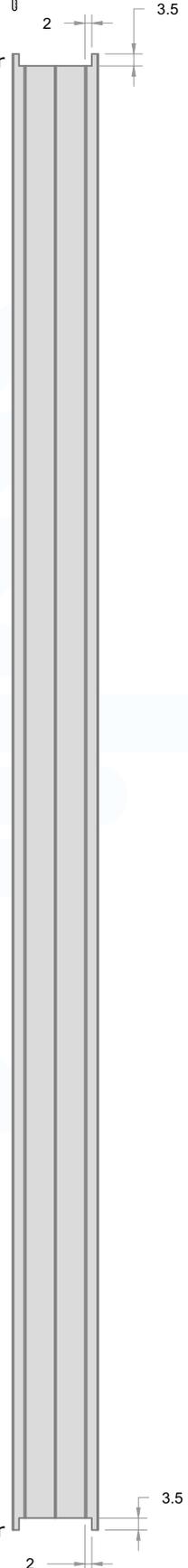
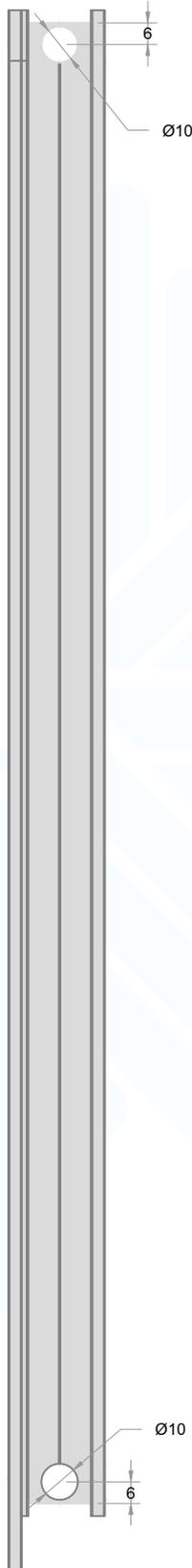
PERFIS
SU-200



PERFIS
SU-080



Rasgo para
instalação do
braço maxim-ar



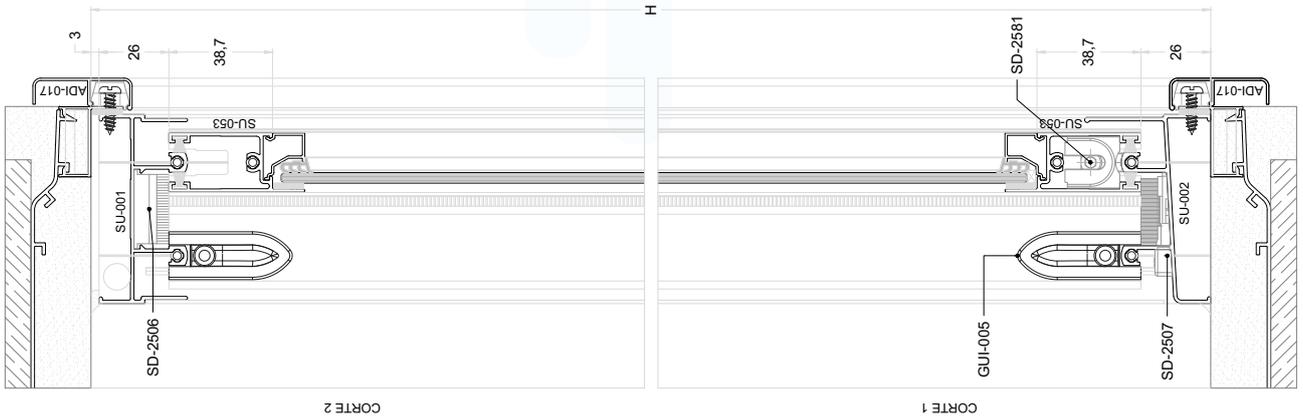
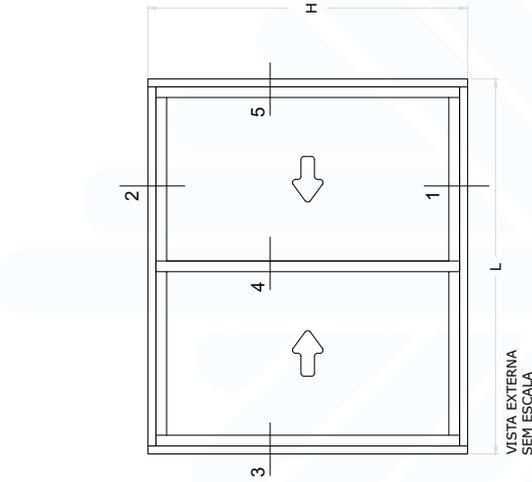
Rasgo para
instalação do
braço maxim-ar

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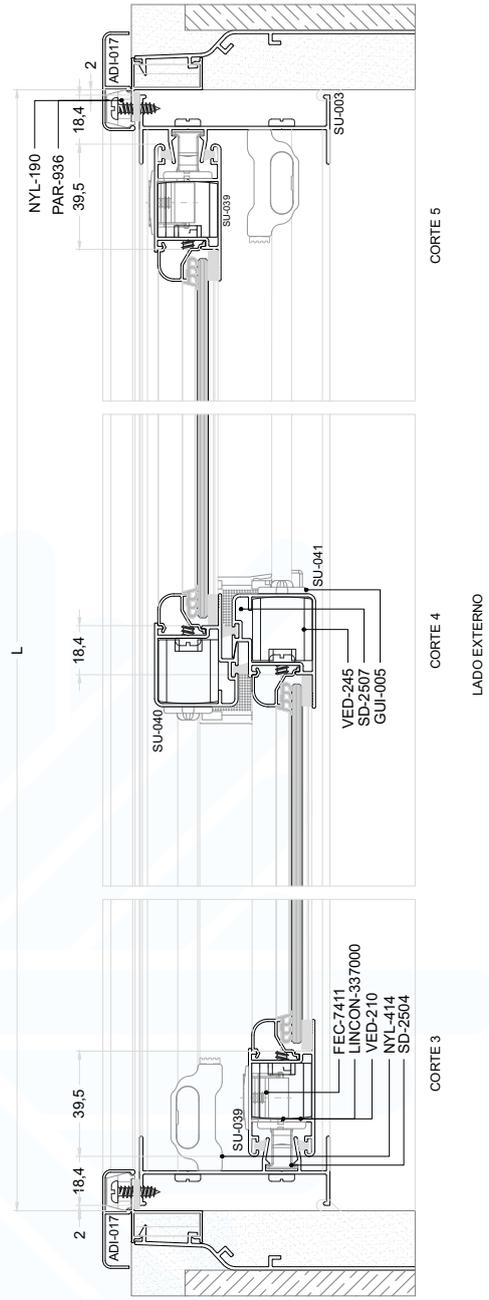
JANELA DE CORRER
2 FOLHAS

- 01 - Todo encontro entre perfis devem ser vedados com silicone neutro.
- 02 - Combinações de Baguetes e EPDM de acordo com tabela na página 69.
- 03- Componentes conforme mapa de Componentes descrito nesse catálogo.



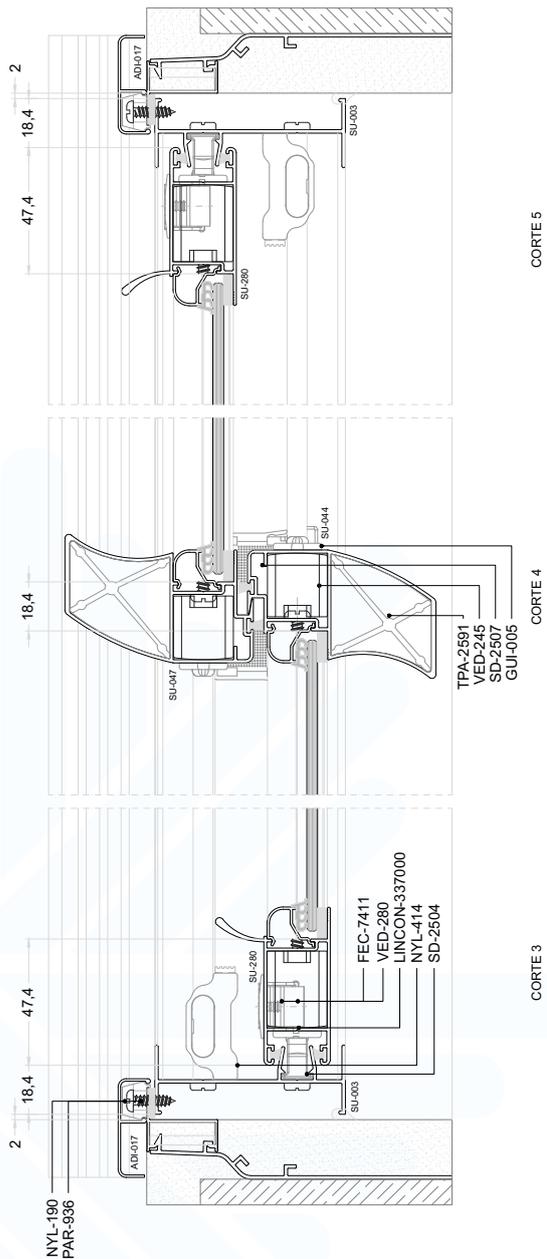
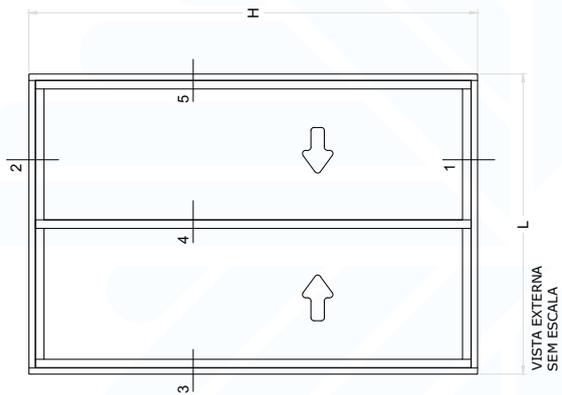
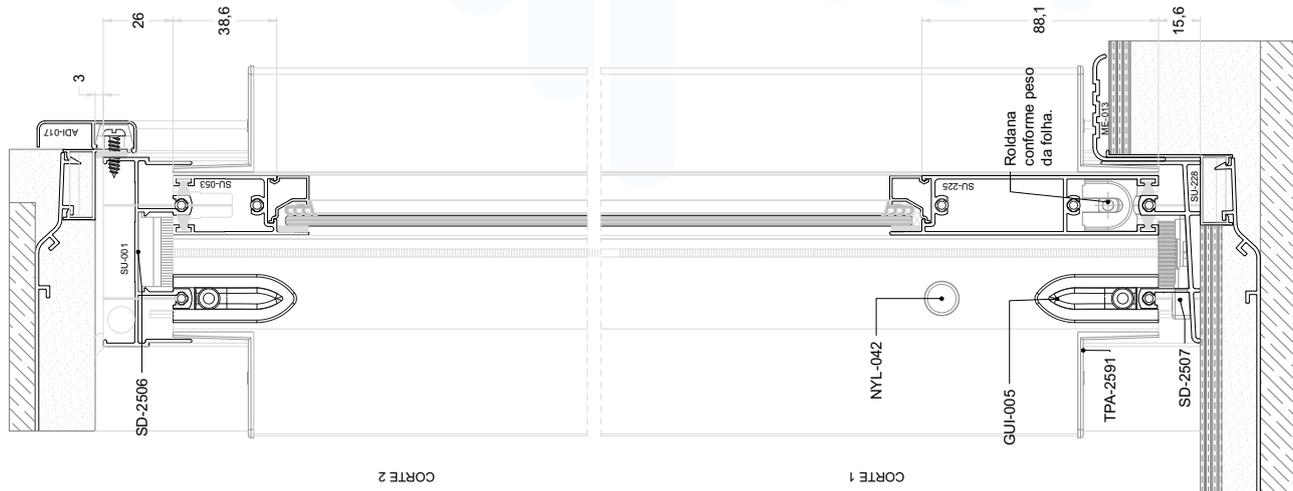
LADO EXTERNO

DETALHES CONSTRUTIVOS



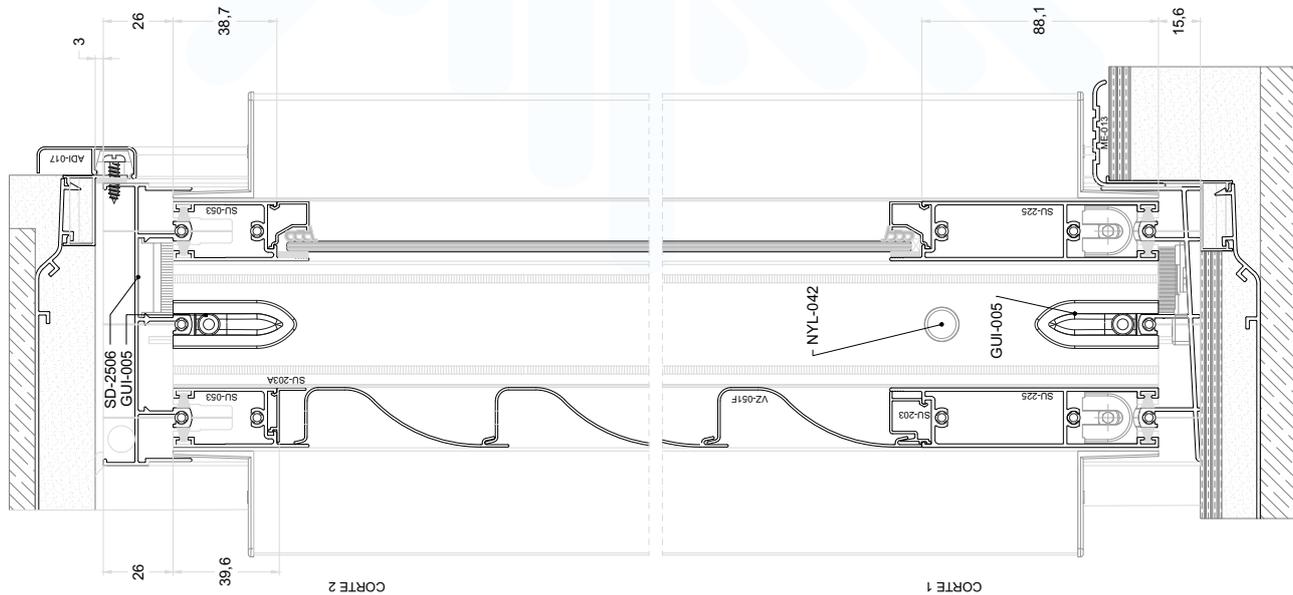
**PORTA DE CORRER
2 FOLHAS**

- 01 - Todo encontro entre perfis devem ser vedados com silicone neutro.
- 02 - Combinações de Baguetes e EPDM de acordo com tabela na página 69.
- 03- Componentes conforme mapa de Componentes descrito nesse catálogo.



PORTA DE CORRER 3 FOLHAS
SENDO 2 VENEZIANAS E 1 VIDRO

- 01 - Todo encontro entre perfis devem ser vedados com silicone neutro.
- 02 - Combinações de Baguetes e EPDM de acordo com tabela na página 69.
- 03- Componentes conforme mapa de Componentes descrito nesse catálogo.

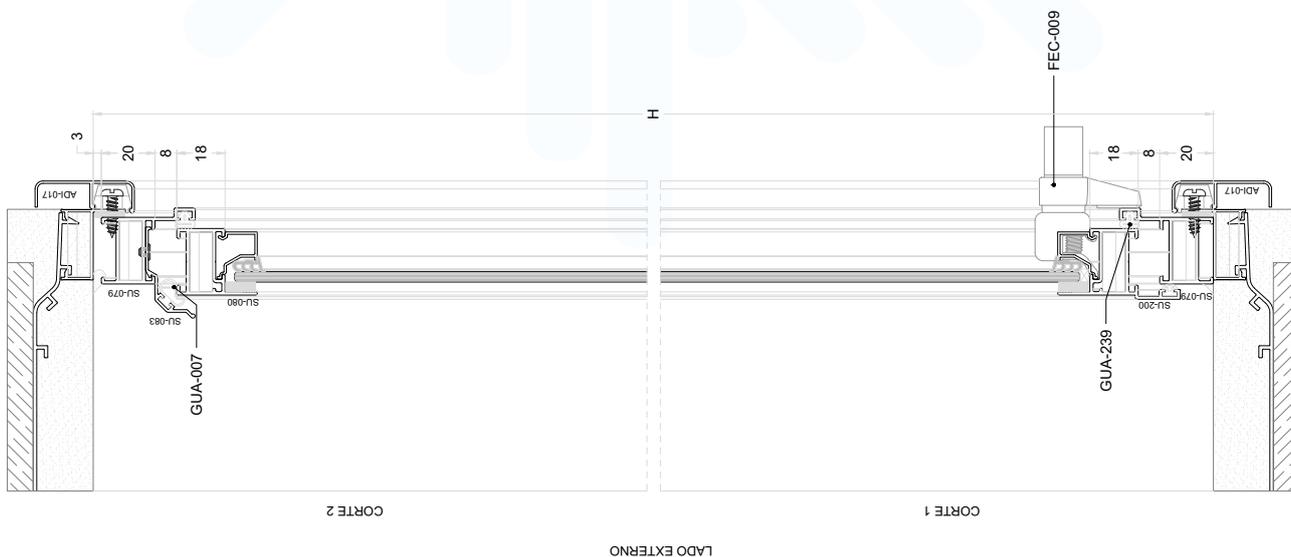
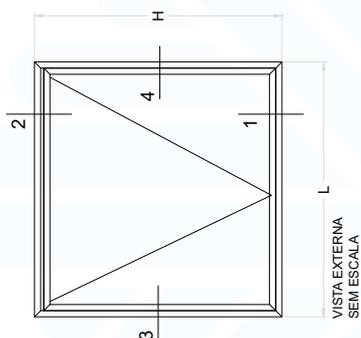


LADO EXTERNO

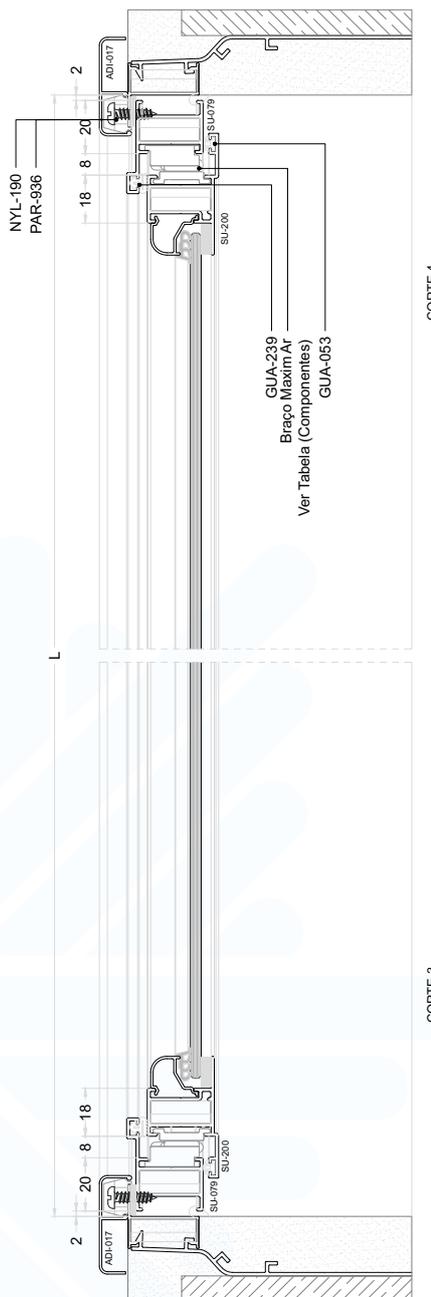
DETALHES CONSTRUTIVOS

JANELA MAXIM AR
1 FOLHA

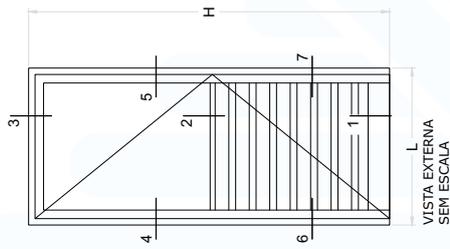
- 01 - Todo encontro entre perfis devem ser vedados com silicone neutro.
- 02 - Combinações de Bagues e EPDM de acordo com tabela na página 69.
- 03- Componentes conforme mapa de Componentes descrito nesse catálogo.



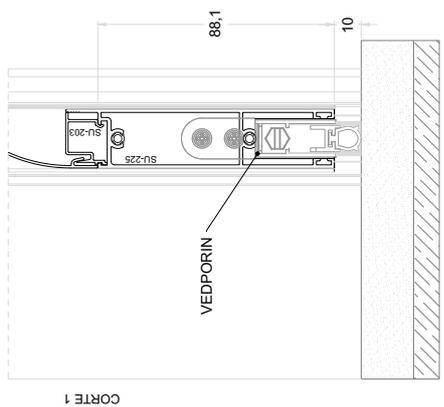
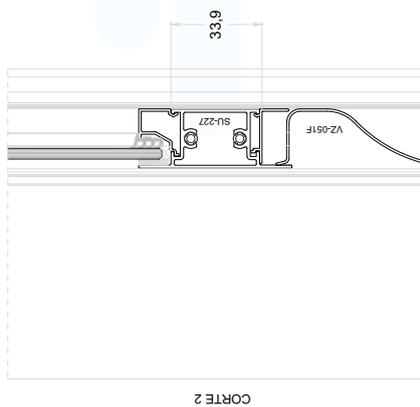
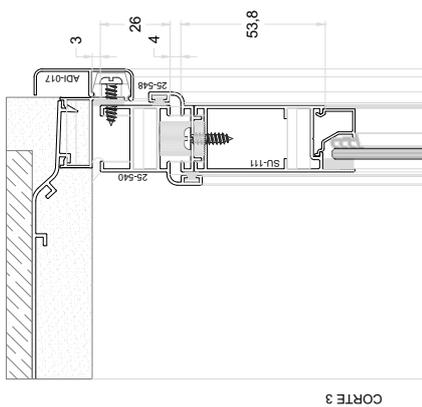
DETALHES CONSTRUTIVOS



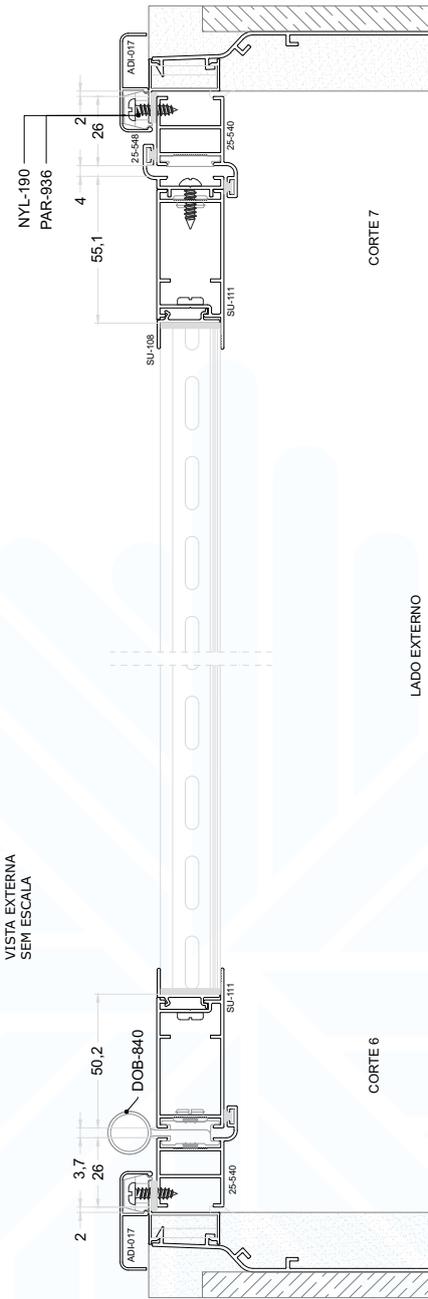
**PORTA DE GIRO 1 FOLHA
VIDRO E VENEZIANA**



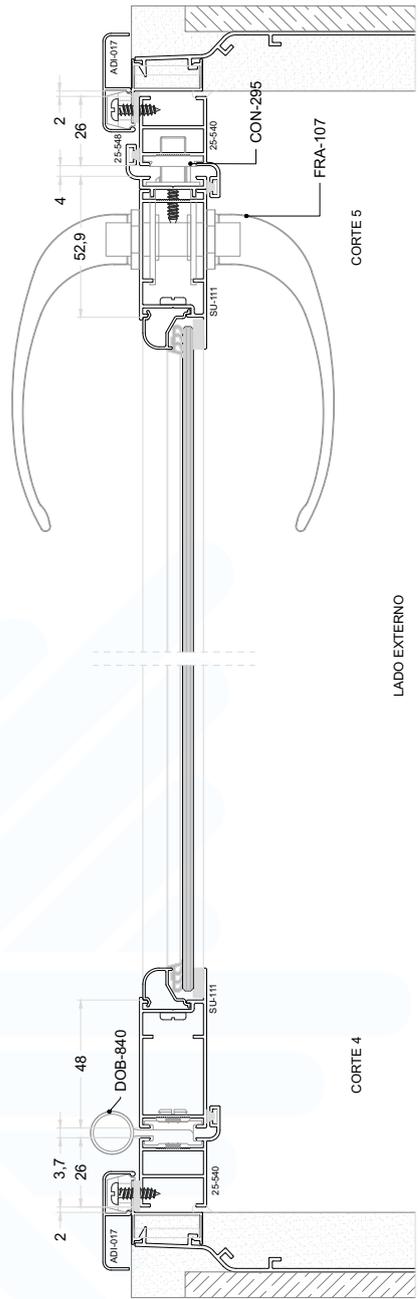
- 01 - Todo encontro entre perfis devem ser vedados com silicone neutro.
- 02 - Combinações de Baguetes e EPDM de acordo com tabela na página 69.
- 03- Componentes conforme mapa de Componentes descrito nesse catálogo.



LADO EXTERNO



LADO EXTERNO

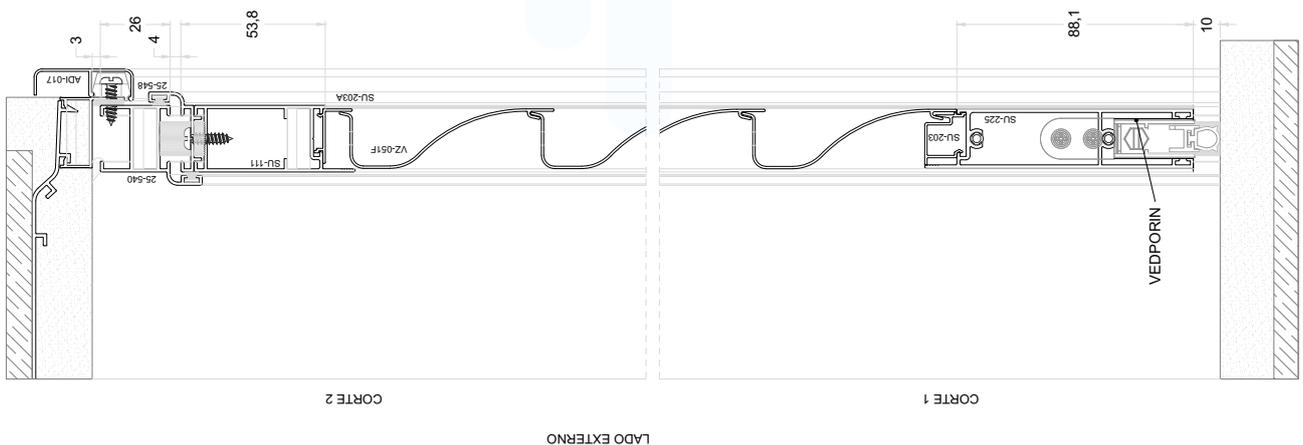


LADO EXTERNO

DETALHES CONSTRUTIVOS

PORTA DE GIRO
2 FOLHAS

- 01 - Todo encontro entre perfis devem ser vedados com silicone neutro.
- 02 - Combinações de Baguetes e EPDM de acordo com tabela na página 69.
- 03- Componentes conforme mapa de Componentes descrito nesse catálogo.



LADO EXTERNO

LADO EXTERNO



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