

L I N H A



**CITTÁ**<sup>®</sup>  
*DUE*





## VERSATILIDADE PARA EDIFÍCIOS COMERCIAIS

- Perfis extrudados nas ligas 6060-T5 ou 6005A-T5, conforme solicitação de esforços de cada região.
- Guarnições vulcanizadas ajudam no equilíbrio das pressões interna e externa.
- Guarnições de encaixe frontal facilitam a manutenção ou eventual substituição.
- Braços de articulação resistentes a 100 kg.
- Fechos duplos ou perimetrais providos de travas de segurança.
- A Linha Cittá Due comporta vidros de 6 mm para folhas encaixilhadas e 8 mm para laminados ou colados com silicone.
- Sua tripla vedação garante total estanqueidade ao conjunto.





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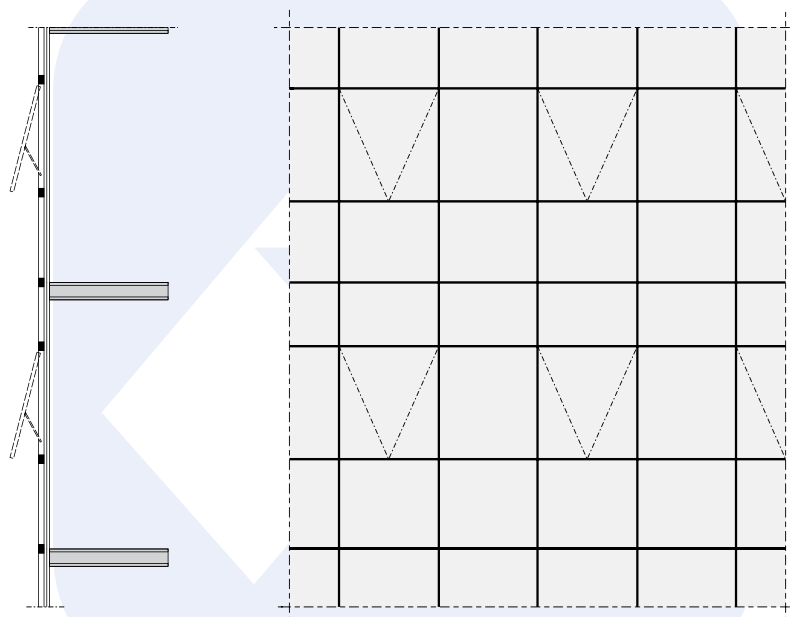
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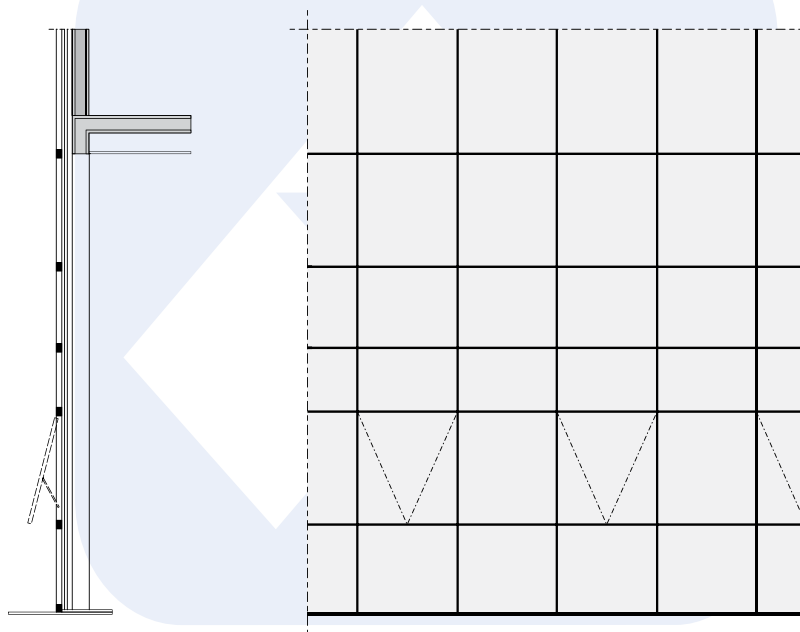
Catálogo Técnico Linha Cittá Due GMPE 034 JAN 08



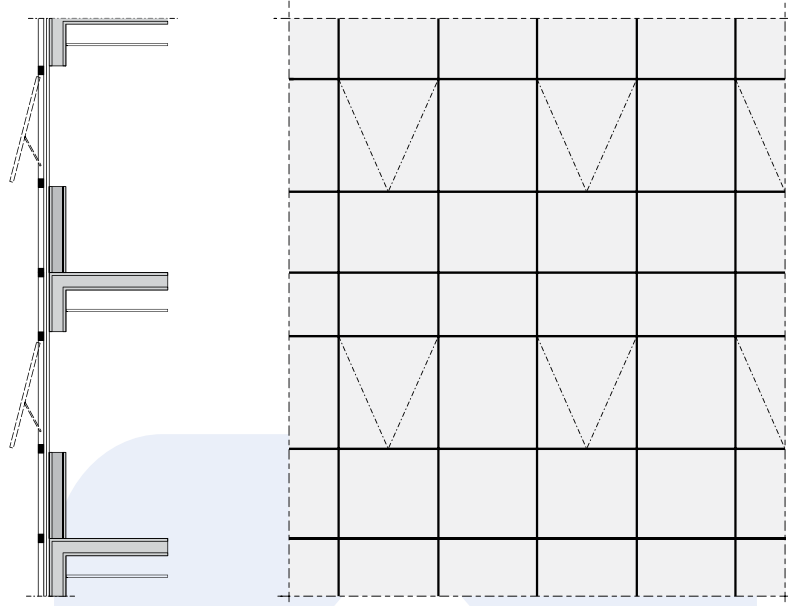
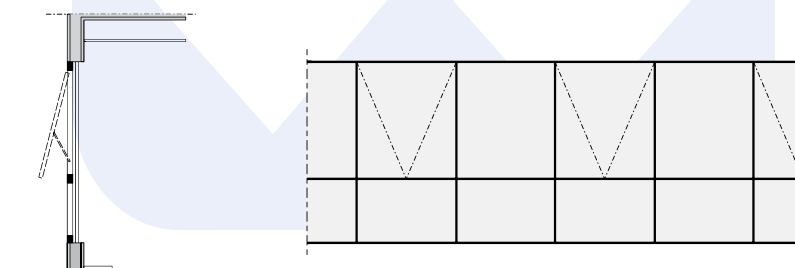
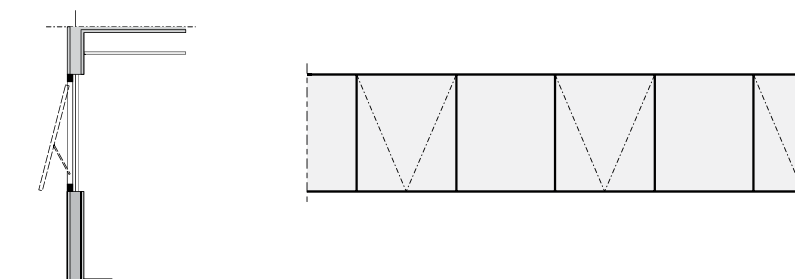
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**Fachada Contínua**

**Térreos**

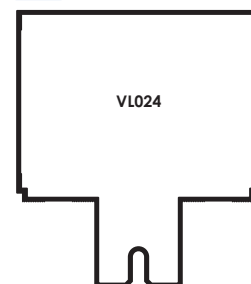
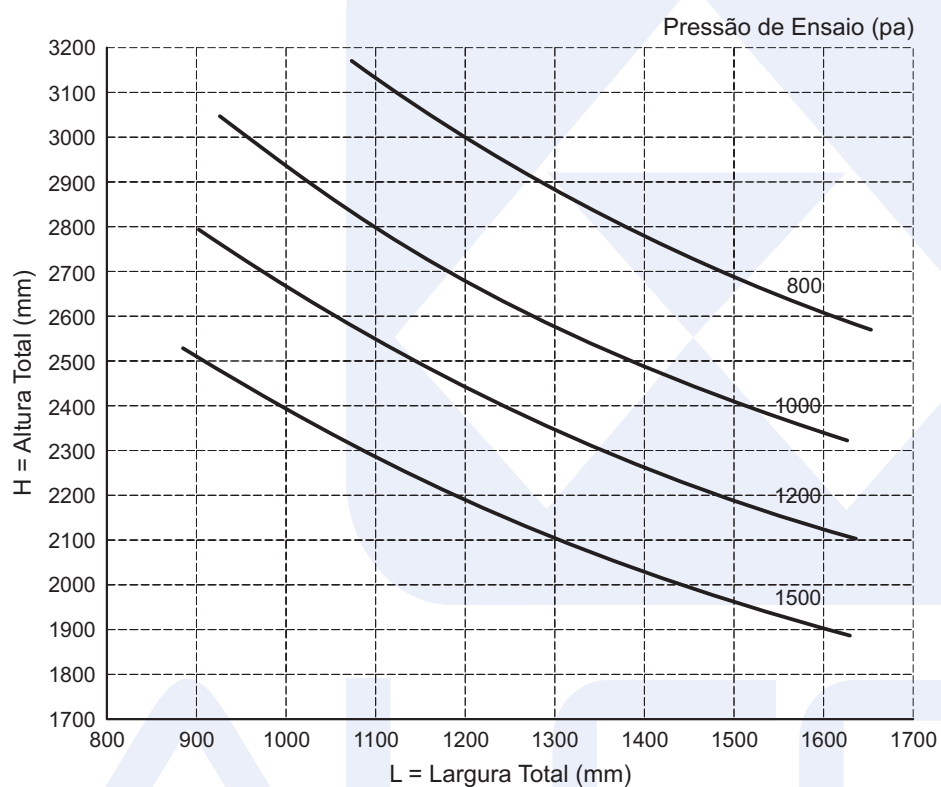
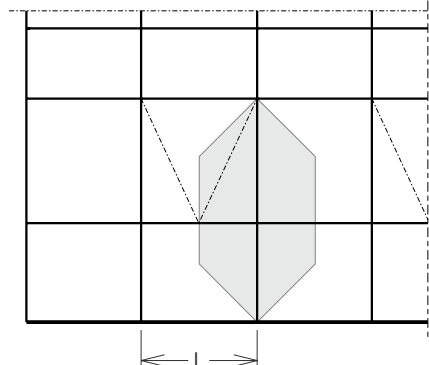
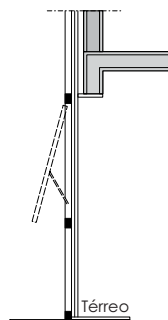
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**Fachada Entre-vão****Fachada Entre-vão**



## Engaste / Apoio Simples

Liga 6060 T5

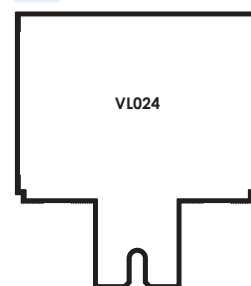
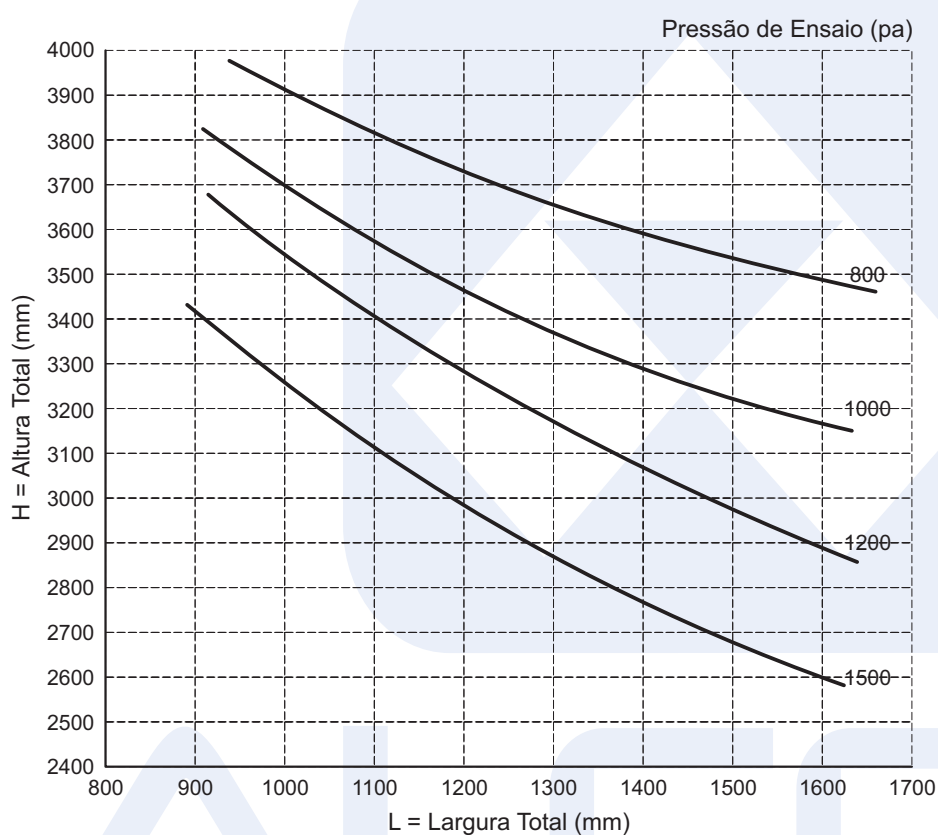
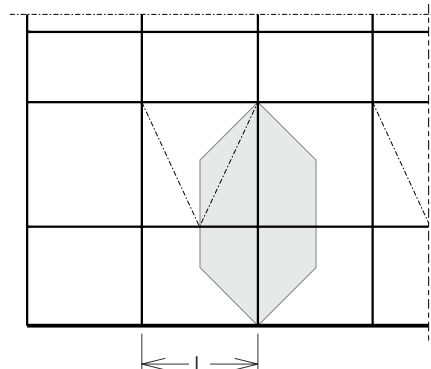
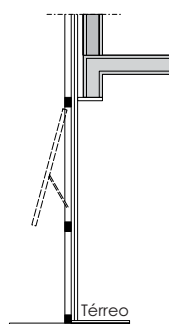


VL024

Área = 657 mm<sup>2</sup>  
Jx = 733153 mm<sup>4</sup>  
Wx = 15338 mm<sup>3</sup>

## Engaste / Apoio Simples

Liga 6005A T5 (Sob consulta)



Área = 657 mm<sup>2</sup>  
Jx = 733153 mm<sup>4</sup>  
Wx = 15338 mm<sup>3</sup>

## Cálculo Envelope

### VL024 : Liga 6060 - Têmpera T5

#### Pressões máximas

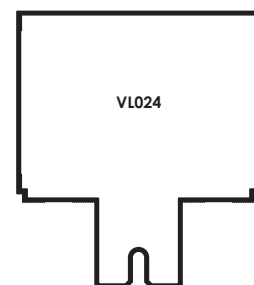
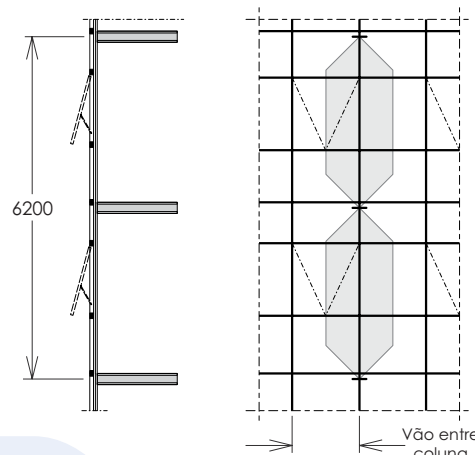
Vão entre colunas = 1000 mm: pressão máxima = 90 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 72 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 124 kg Ph = 280 kg

Vão = 1250 mm: Pv = 155 kg Ph = 280 kg



Área = 657 mm<sup>2</sup>  
Jx = 733153 mm<sup>4</sup>  
Wx = 15338 mm<sup>3</sup>

### VL024 : Liga 6005A - Têmpera T5 (Sob consulta)

#### Pressões máximas

Vão entre colunas = 1000 mm: pressão máxima = 166 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 133 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 124 kg Ph = 515 kg

Vão = 1250 mm: Pv = 155 kg Ph = 515 kg

## Cálculo Envelope

### VL024 : Liga 6060 - Têmpera T5

#### Pressões máximas

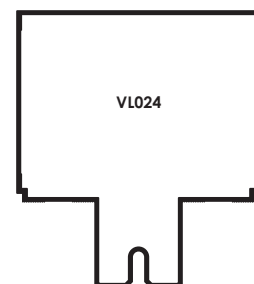
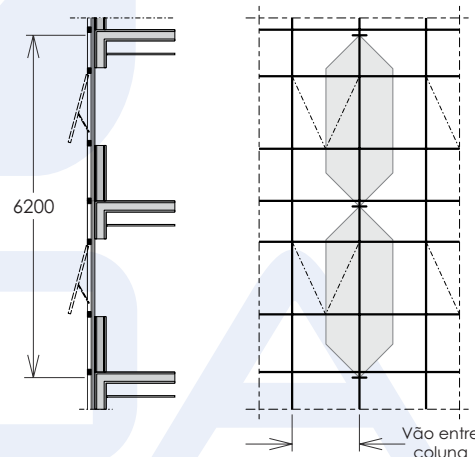
Vão entre colunas = 1000 mm: pressão máxima = 129 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 108 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 114 kg Ph = 368 kg

Vão = 1250 mm: Pv = 142 kg Ph = 368 kg



Área = 657 mm<sup>2</sup>  
Jx = 733153 mm<sup>4</sup>  
Wx = 15338 mm<sup>3</sup>

### VL024 : Liga 6005A - Têmpera T5 (Sob consulta)

#### Pressões máximas

Vão entre colunas = 1000 mm: pressão máxima = 183 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 147 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 124 kg Ph = 521 kg

Vão = 1250 mm: Pv = 155 kg Ph = 521 kg

## Cálculo Envelope

### VL025 : Liga 6060 - Têmpera T5

#### Pressões máximas

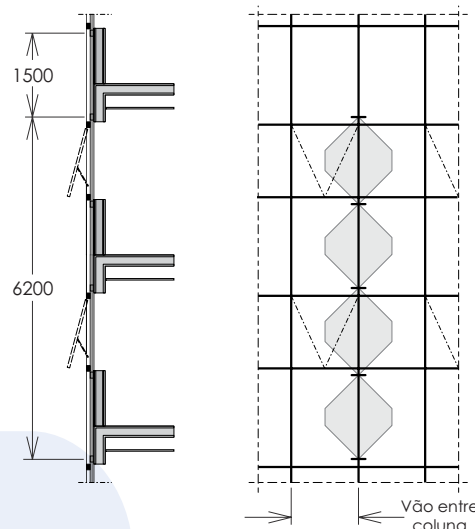
Vão entre colunas = 1000 mm: pressão máxima = 151 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 134 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 45 kg Ph = 234 kg

Vão = 1250 mm: Pv = 58 kg Ph = 260 kg



### VL025 : Liga 6005A - Têmpera T5 (Sob consulta)

#### Pressões máximas

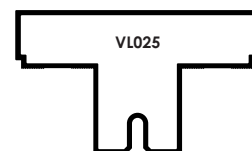
Vão entre colunas = 1000 mm: pressão máxima = 228 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 196 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 46 kg Ph = 353 kg

Vão = 1250 mm: Pv = 58 kg Ph = 380 kg



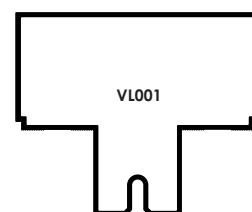
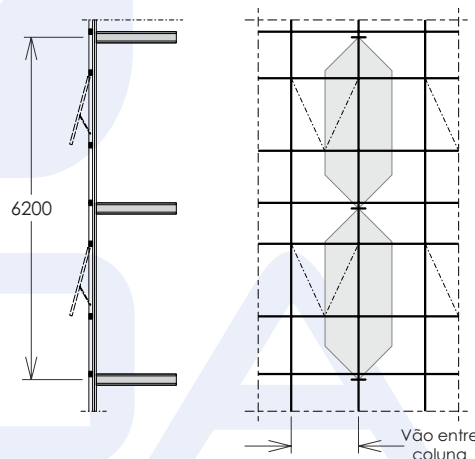
### VL001 : Liga 6005A - Têmpera T5 (Sob consulta)

#### Pressões máximas

Vão entre colunas = 1000 mm: pressão máxima = 81 kg/m<sup>2</sup>

#### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 93 kg Ph = 252 kg



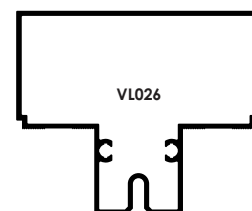
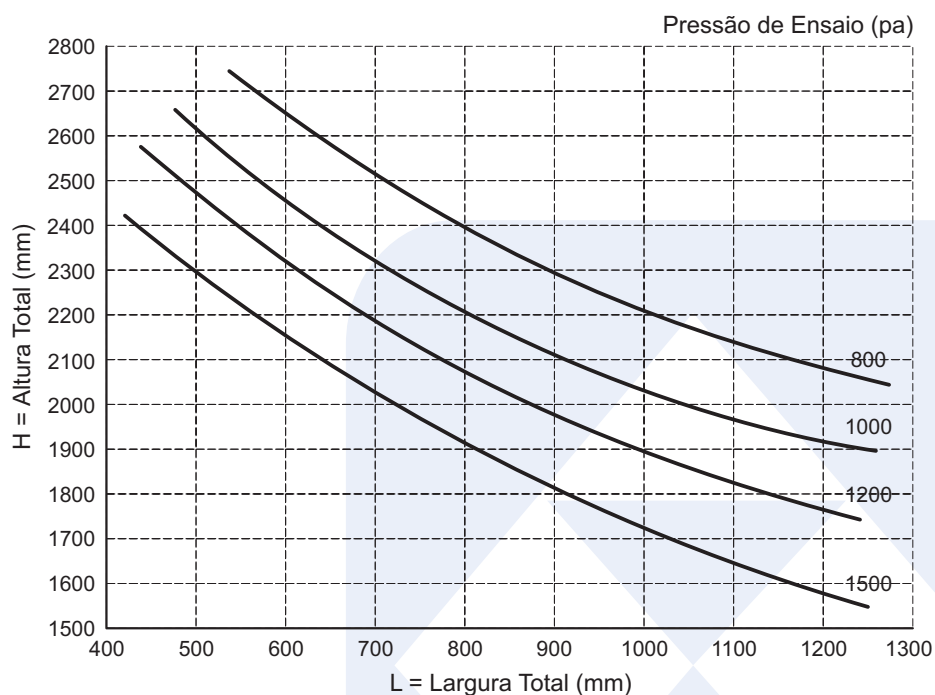
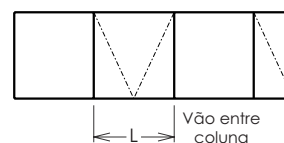
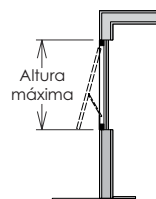
#### Nota

Sempre que houver possibilidade de se colocar mais de uma ancoragem, com espaçamento entre elas maior que 500mm, favor consultar, pois poderá favorecer do ponto de vista estrutural.

Área = 546 mm<sup>2</sup>  
Jx = 313839 mm<sup>4</sup>  
Wx = 8327 mm<sup>3</sup>

## Entre-vão

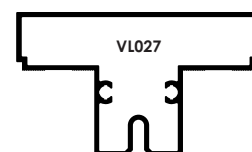
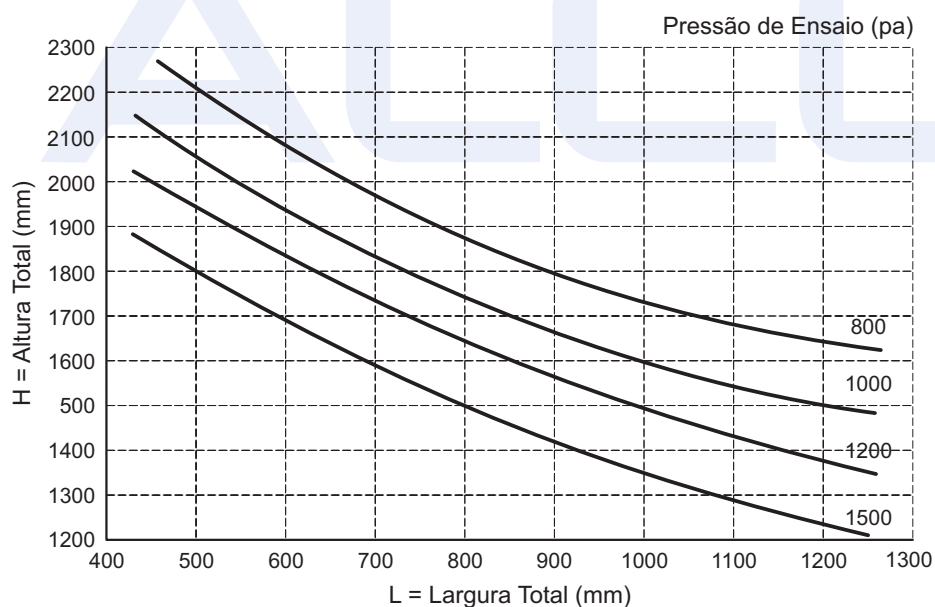
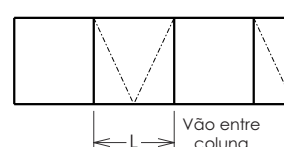
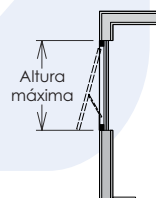
### VL026 : Liga 6060 - Têmpera T5



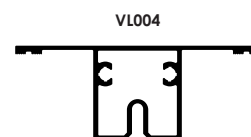
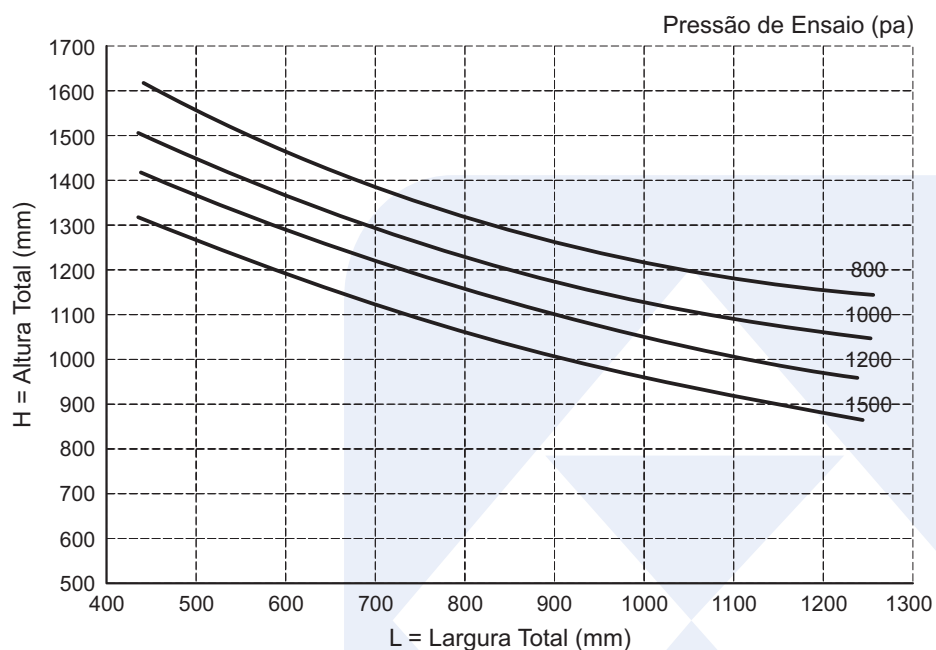
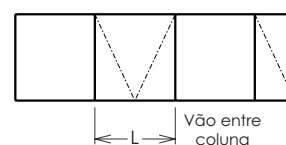
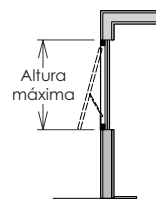
Área = 588 mm<sup>2</sup>  
Jx = 322871 mm<sup>4</sup>  
Wx = 8805 mm<sup>3</sup>

## Entre-vão

### VL027 : Liga 6060 - Têmpera T5

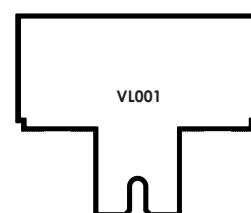
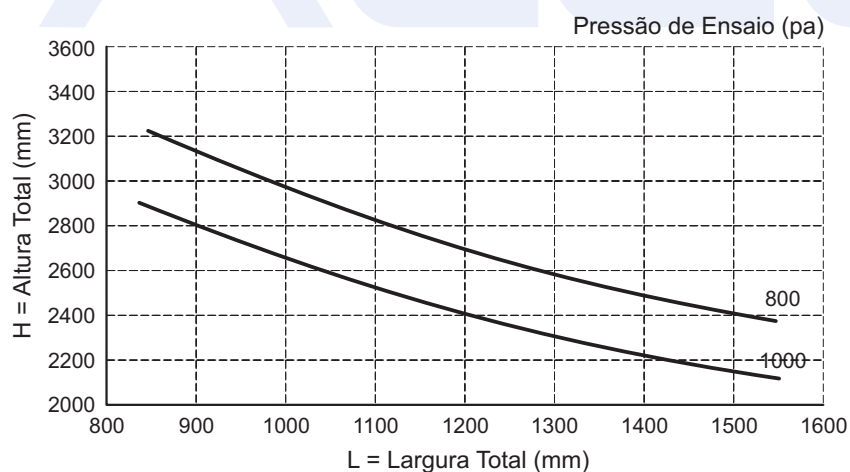
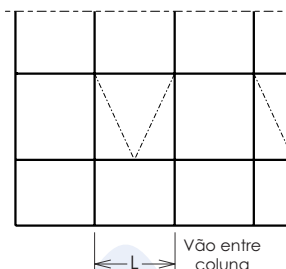
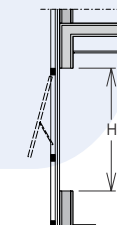


Área = 520 mm<sup>2</sup>  
Jx = 136635 mm<sup>4</sup>  
Wx = 4794 mm<sup>3</sup>

**Entre-vão****VL004 : Liga 6060 - Têmpera T5**

VL004

Área = 366 mm<sup>2</sup>  
Jx = 47889 mm<sup>4</sup>  
Wx = 2412 mm<sup>3</sup>

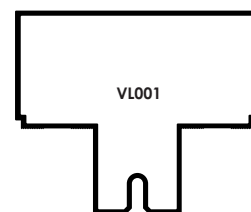
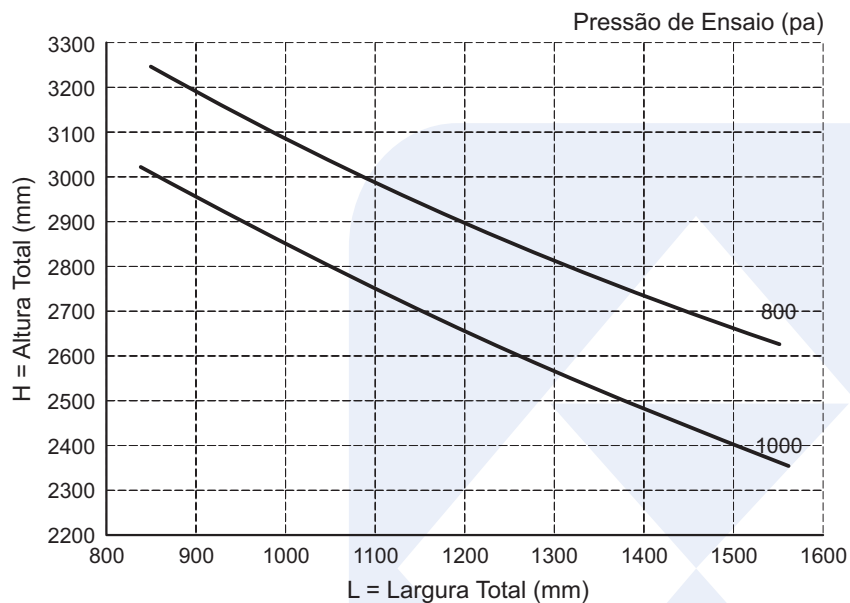
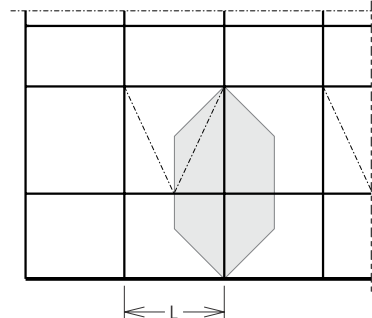
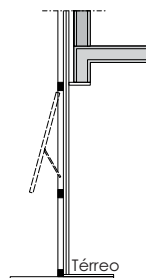
**Duplo engaste****VL001 : Liga 6060 - Têmpera T5**

VL001

Área = 546 mm<sup>2</sup>  
Jx = 313839 mm<sup>4</sup>  
Wx = 8327 mm<sup>3</sup>

## Engaste / Apoio simples

VL026 : Liga 6005 - Têmpera T5 (Sob consulta)



Área = 546 mm<sup>2</sup>  
Jx = 313839 mm<sup>4</sup>  
Wx = 8327 mm<sup>3</sup>

## Cálculo Envelope

VL001 : Liga 6060 - Têmpera T5

### Pressões máximas

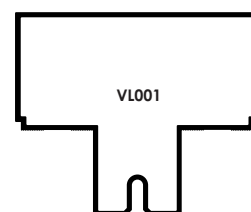
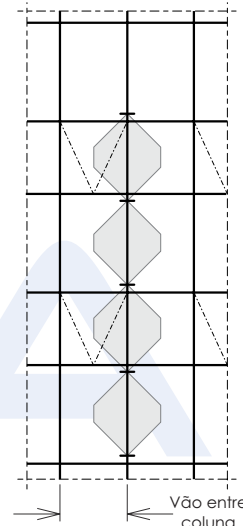
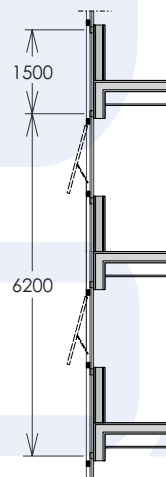
Vão entre colunas = 1000 mm: pressão máxima = 269 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 204 kg/m<sup>2</sup>

### Esforços nas Ancoragens

Vão = 1000 mm: Pv = 62 kg Ph = 417 kg

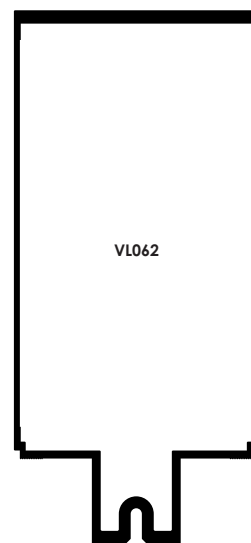
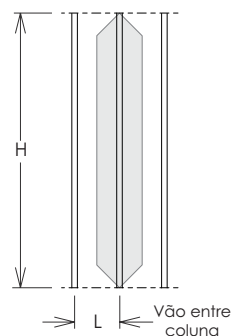
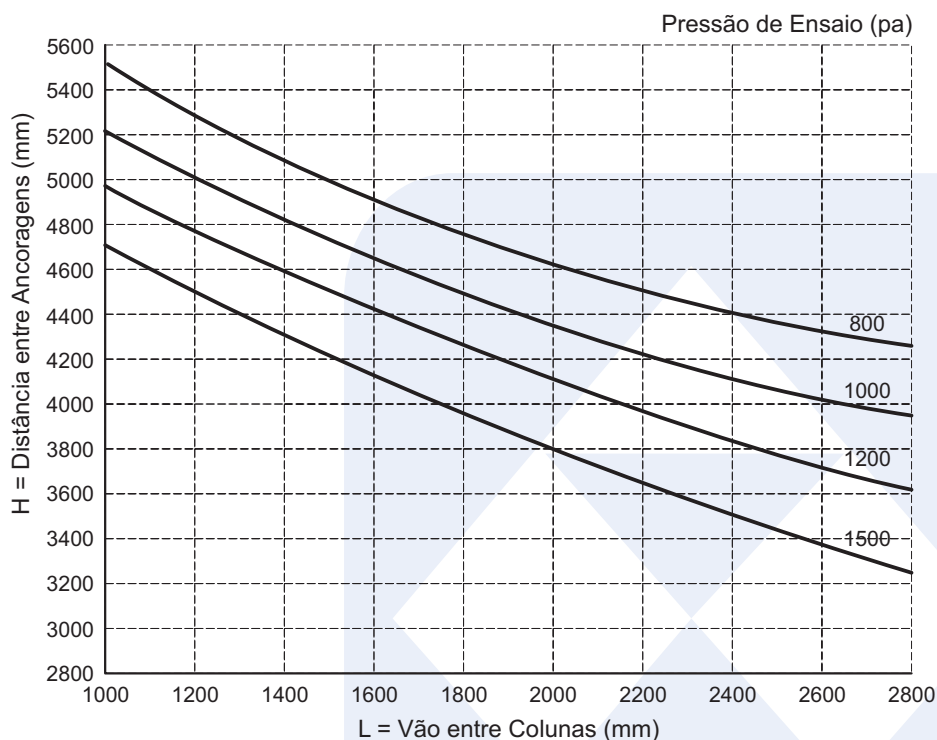
Vão = 1250 mm: Pv = 78 kg Ph = 395 kg



Área = 546 mm<sup>2</sup>  
Jx = 313839 mm<sup>4</sup>  
Wx = 8327 mm<sup>3</sup>

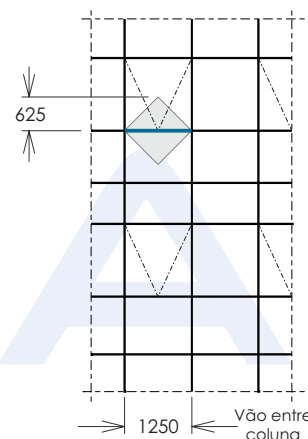
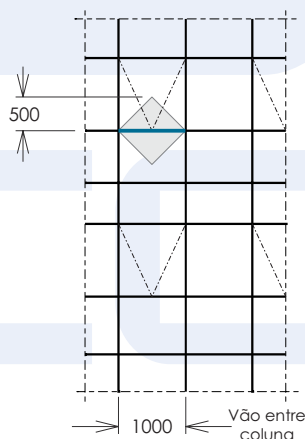
## Engaste / Apoio simples

VL062 : Liga 6060 - Têmpera T5



Área = 1474 mm<sup>2</sup>  
Jx = 6849010 mm<sup>4</sup>  
Wx = 77434 mm<sup>3</sup>

## Cálculo Envelope

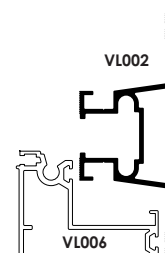


VL001 : Liga 6005A - Têmpera T5 (Sob consulta)

### Pressões máximas

Vão entre colunas = 1000 mm: pressão máxima = 470 kg/m<sup>2</sup>

Vão entre colunas = 1250 mm: pressão máxima = 240 kg/m<sup>2</sup>



Área = 639 mm<sup>2</sup>  
Jx = 178134 mm<sup>4</sup>  
Wx = 5612 mm<sup>3</sup>



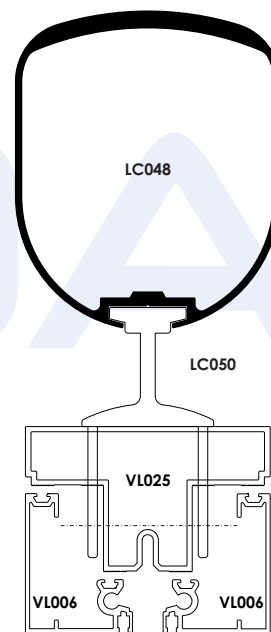
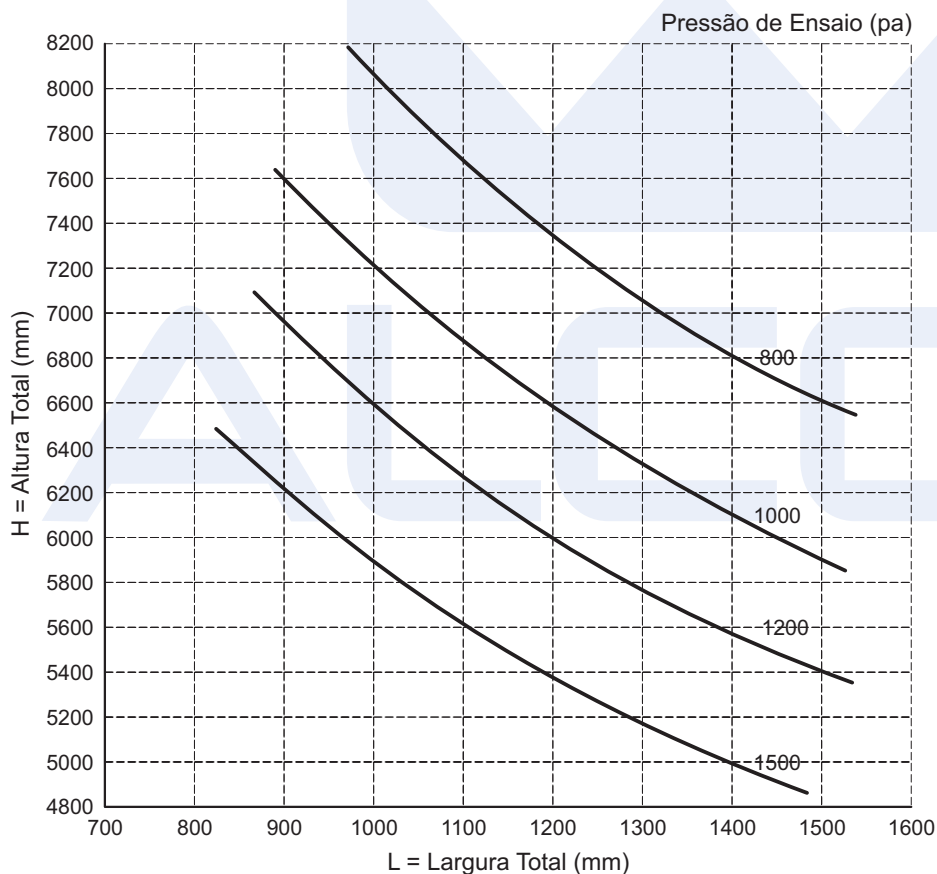
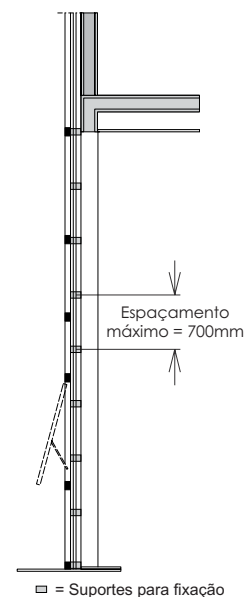
## Pressões máximas coluna LC048 / VL025

LC048/ LC049 / VL025 Bi-engastada : Liga 6065 - Têmpera T5

### Nota

Para os casos onde H é maior que 6 metros, sugerimos uma análise particular do caso, pois a partir desta medida teremos outras considerções, tais como:

1. Novos cálculos para quantidade de calços;
2. Previsão de melhor local para emenda do conjunto, caso seja necessário;
3. Fabricação / transporte / acabamento de superfície.

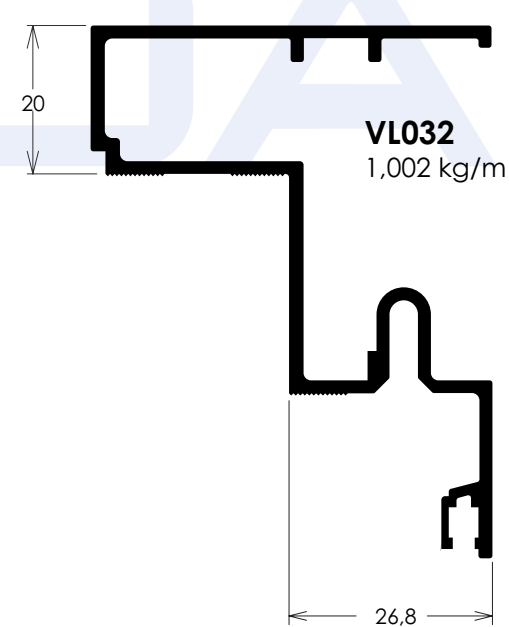
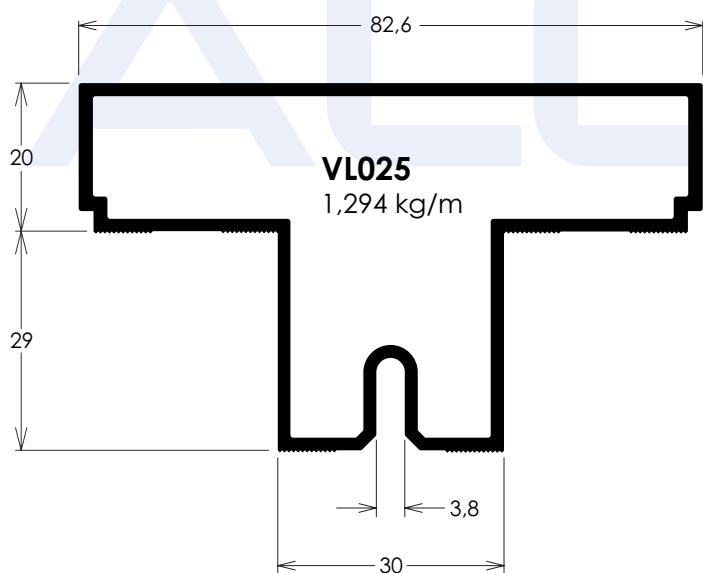
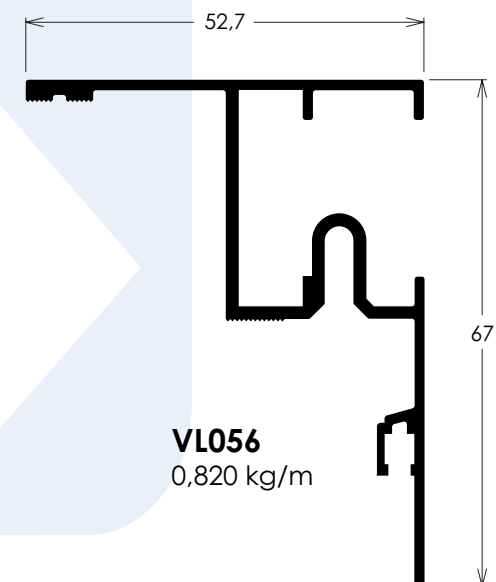
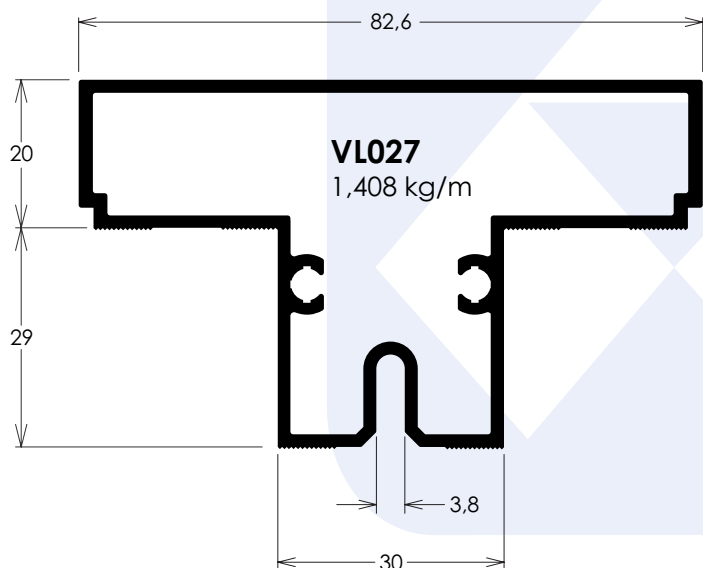
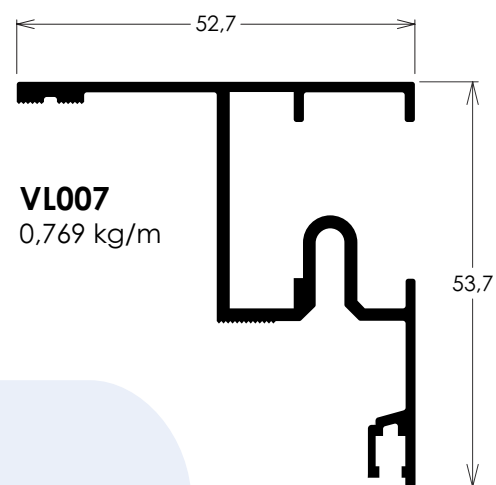
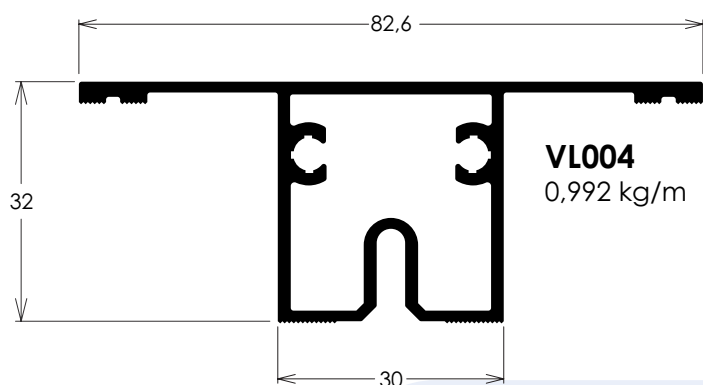


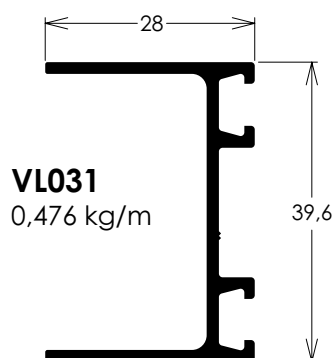
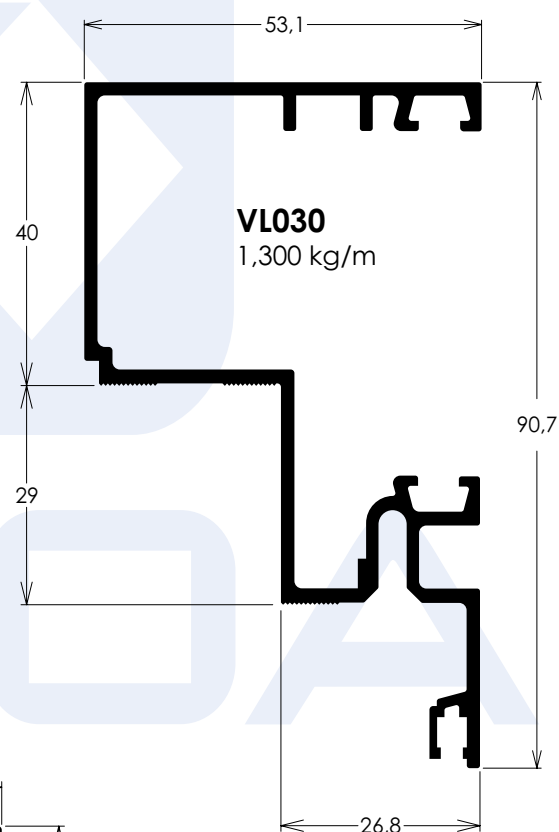
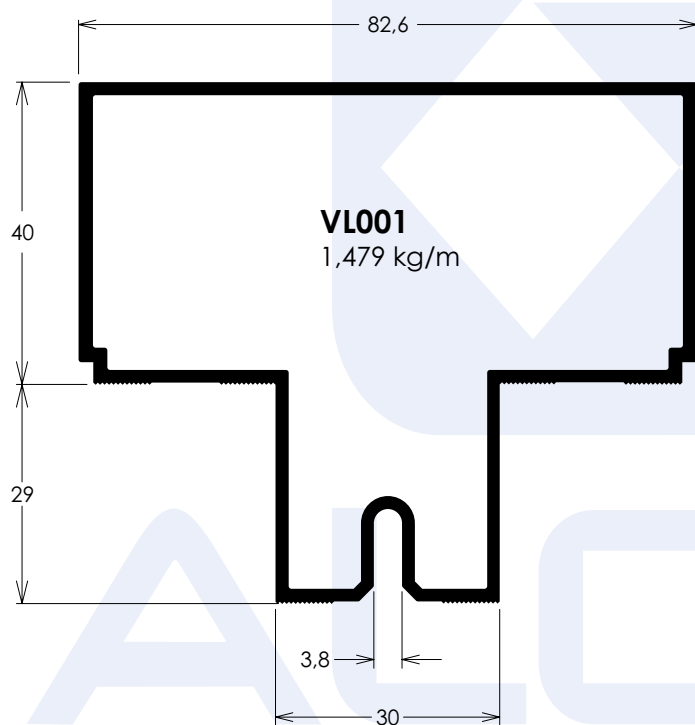
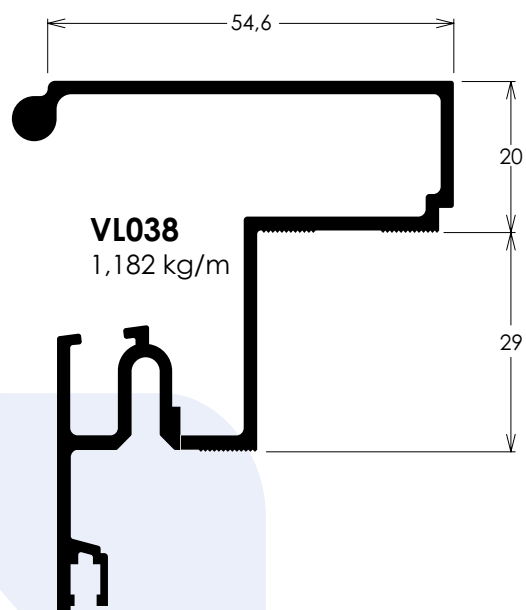
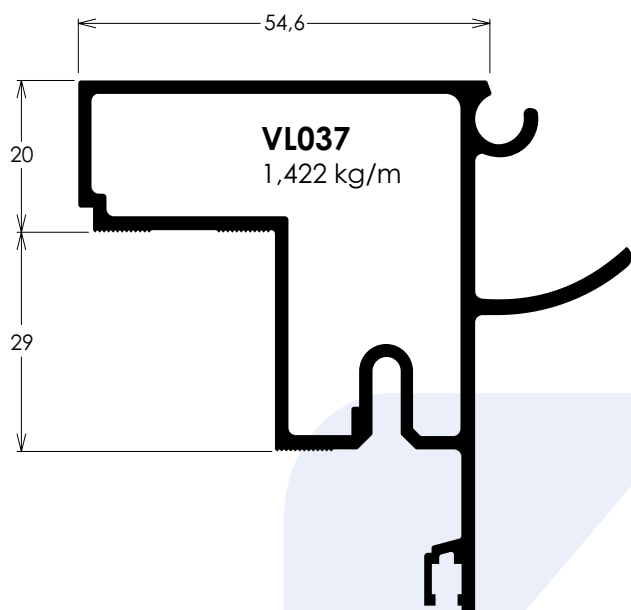
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Jx = \_\_\_\_\_ mm<sup>4</sup>  
Wx = \_\_\_\_\_ mm<sup>3</sup>

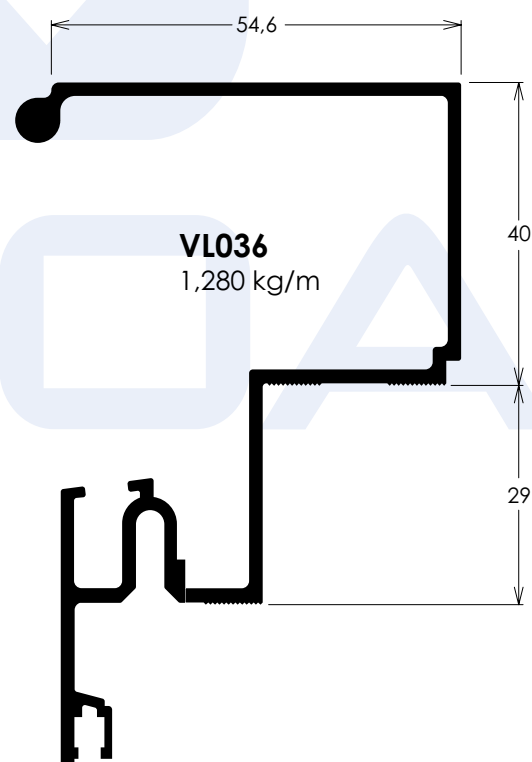
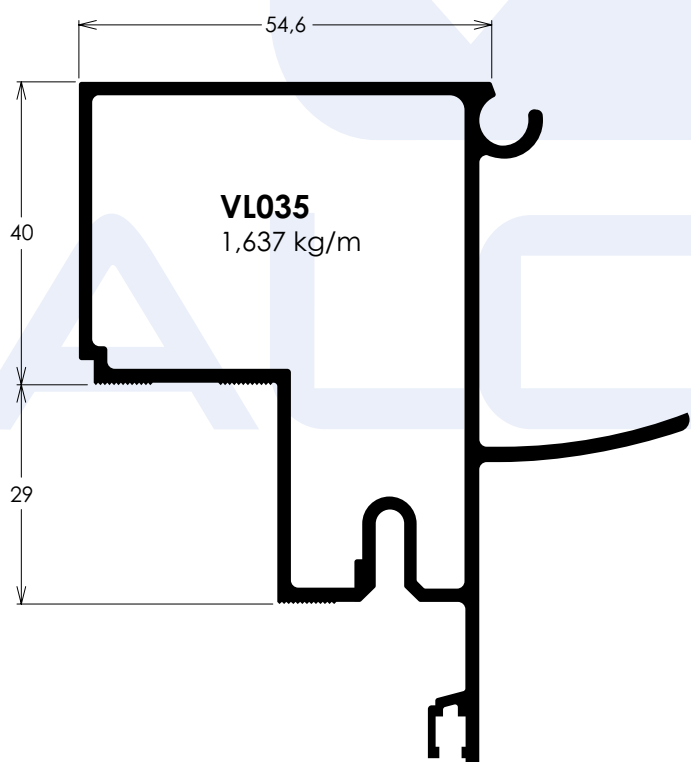
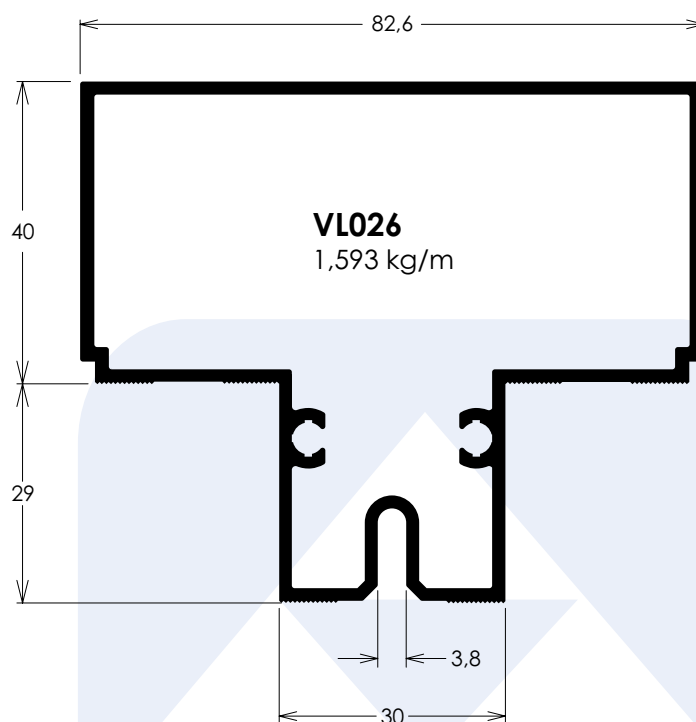
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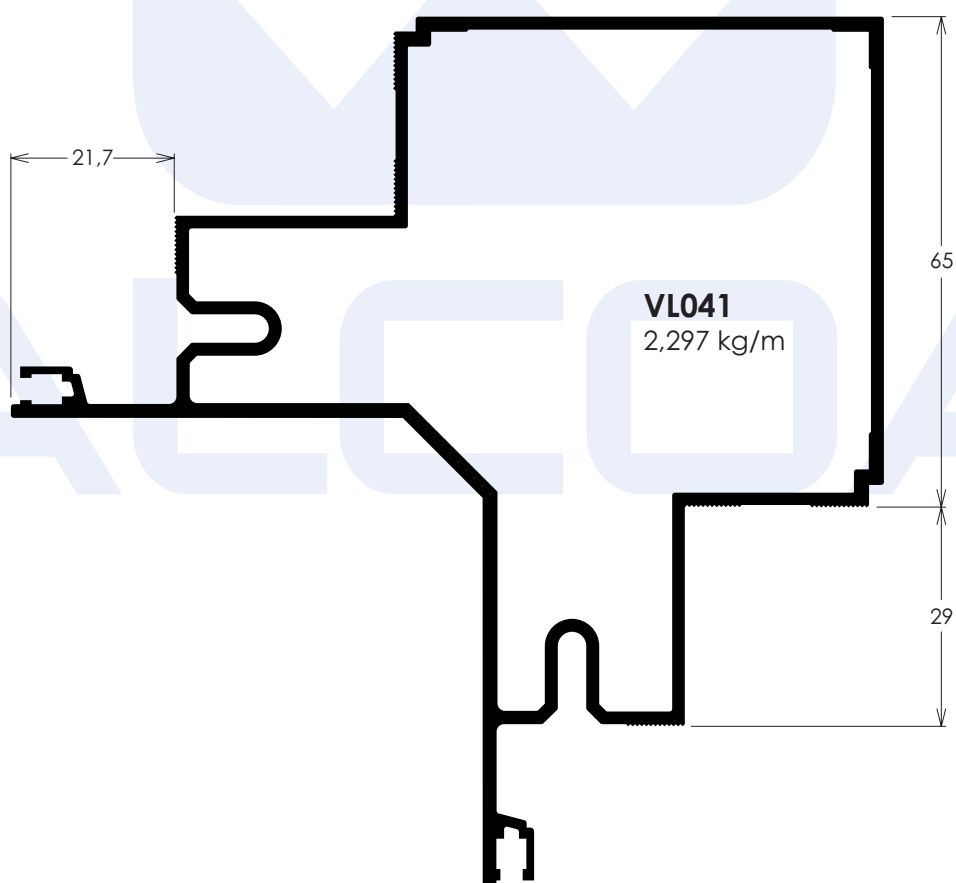
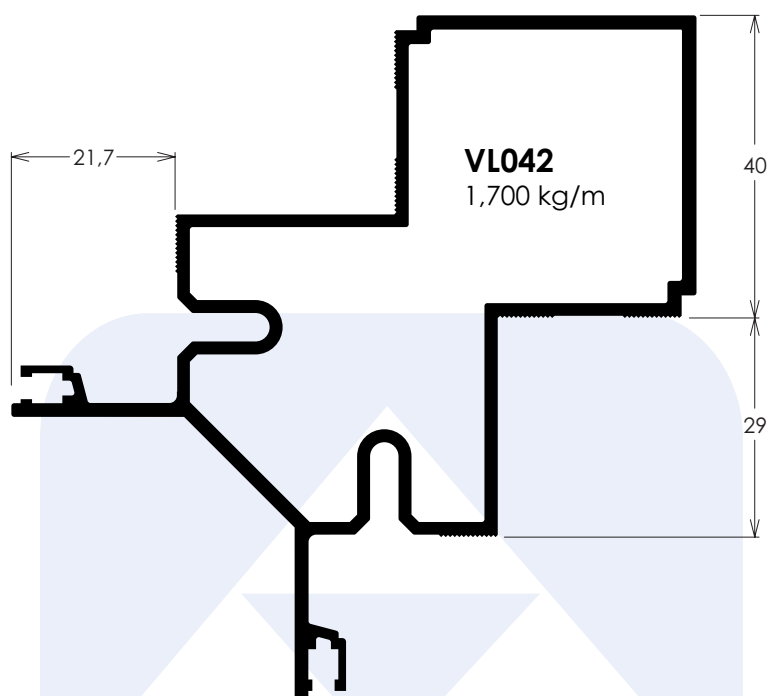
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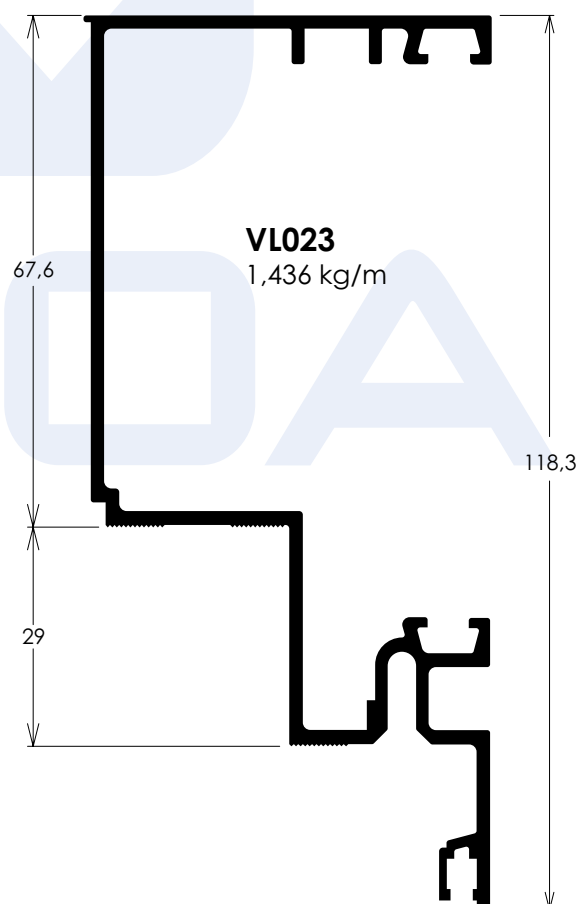
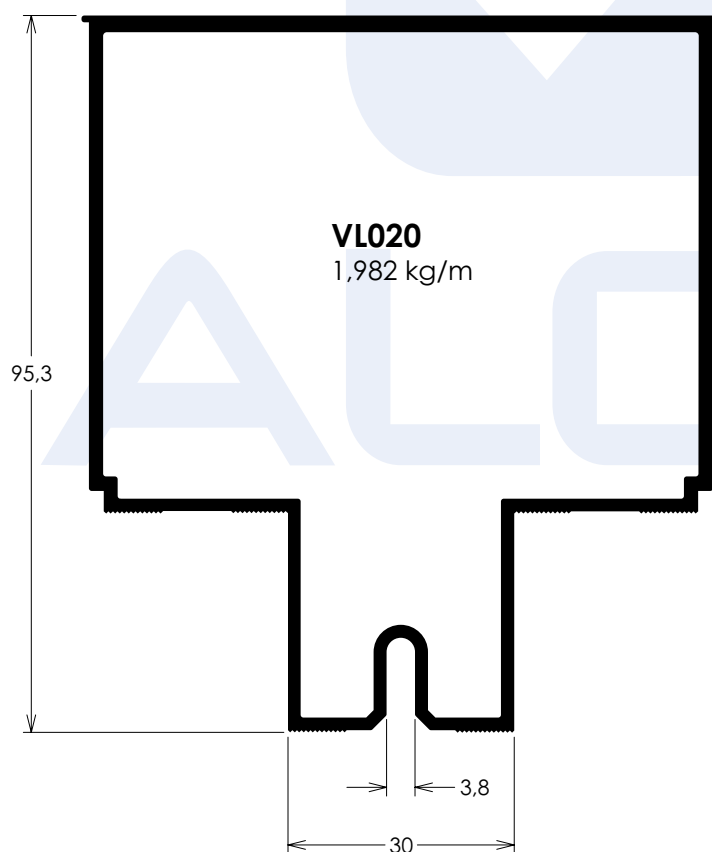
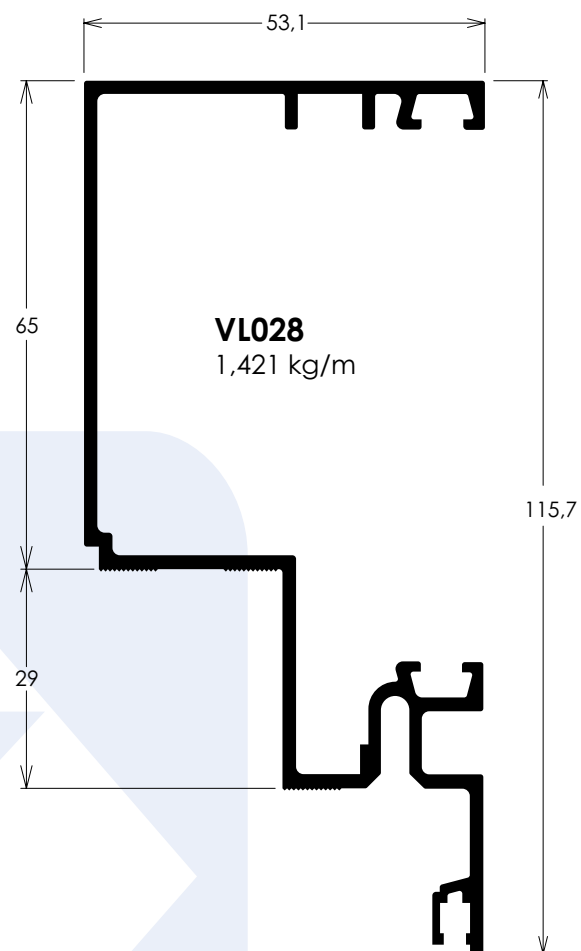
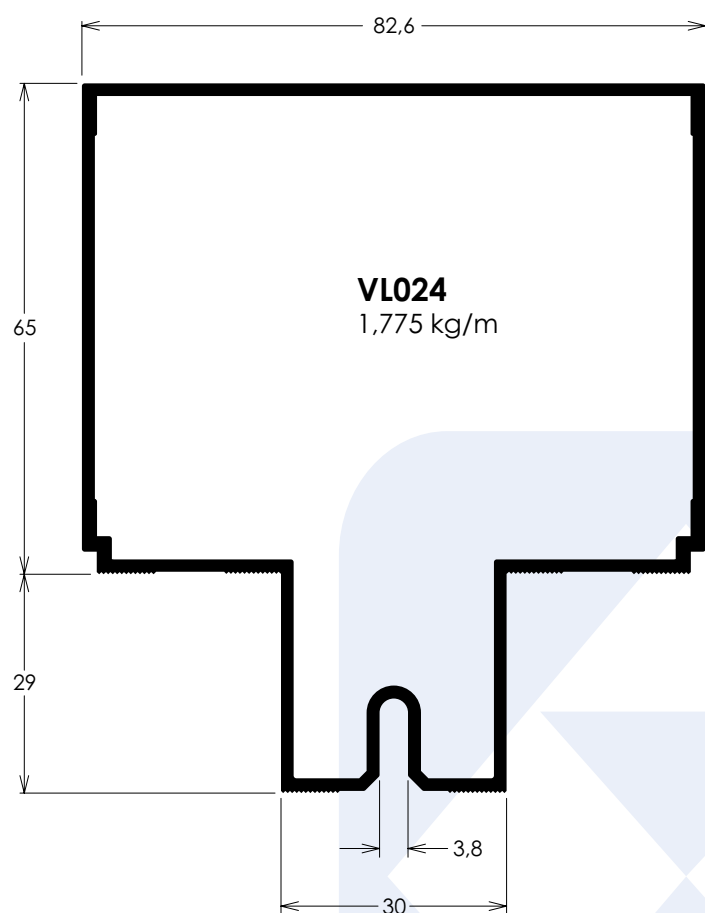
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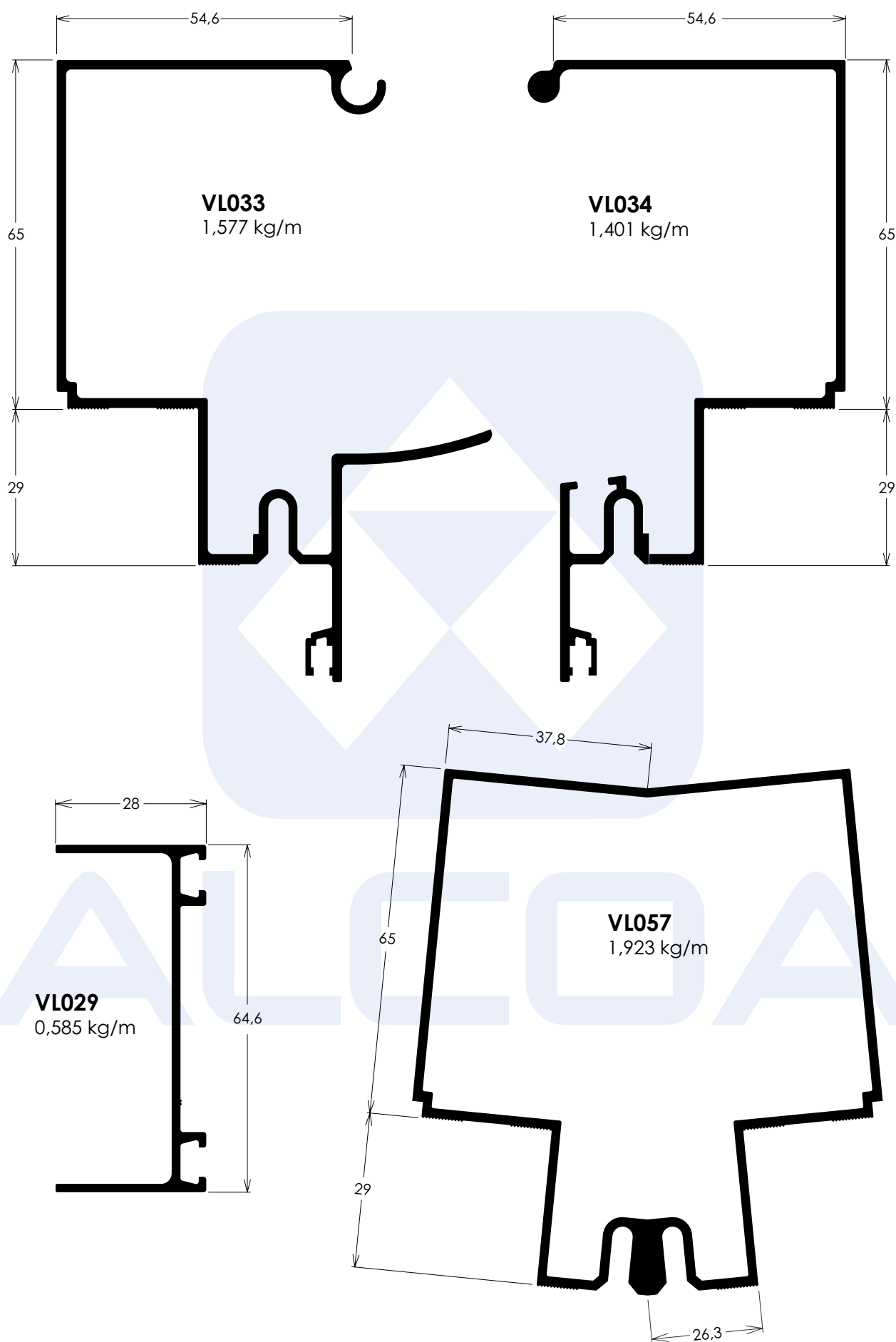




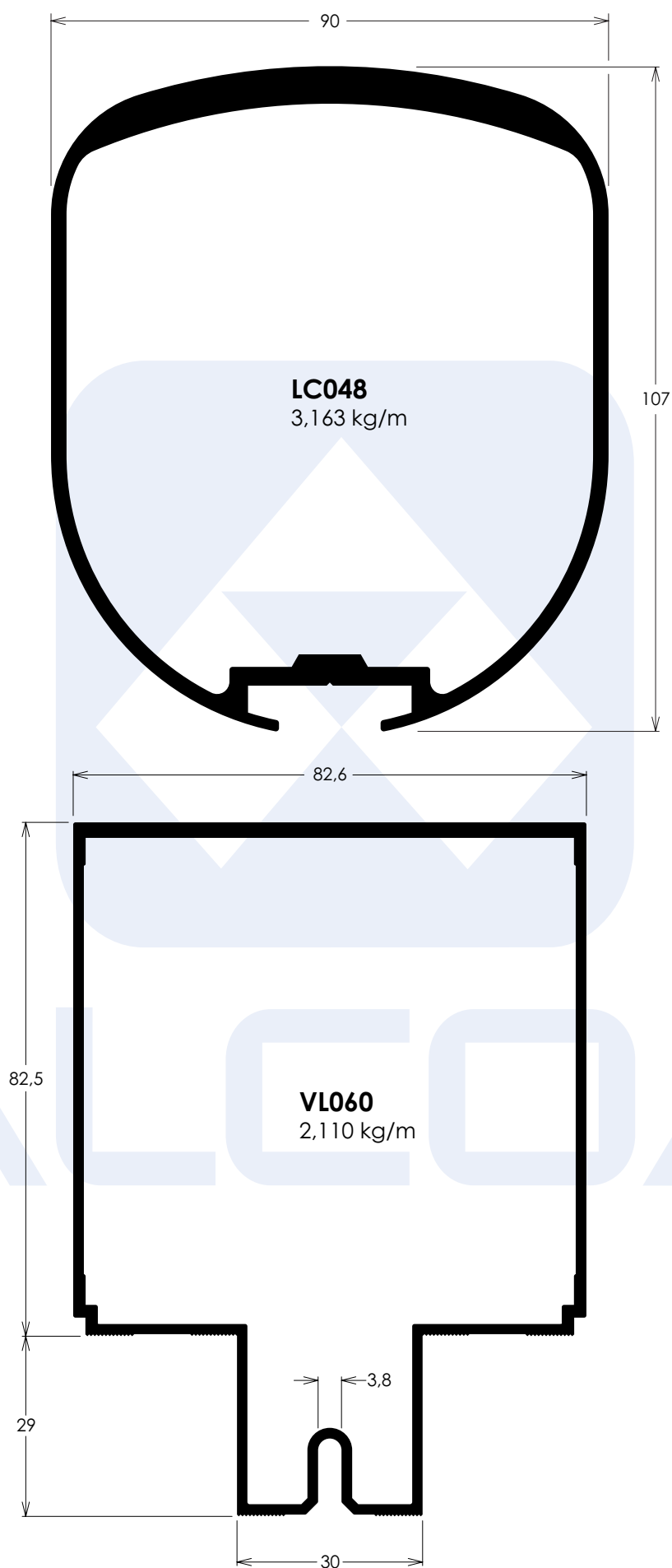


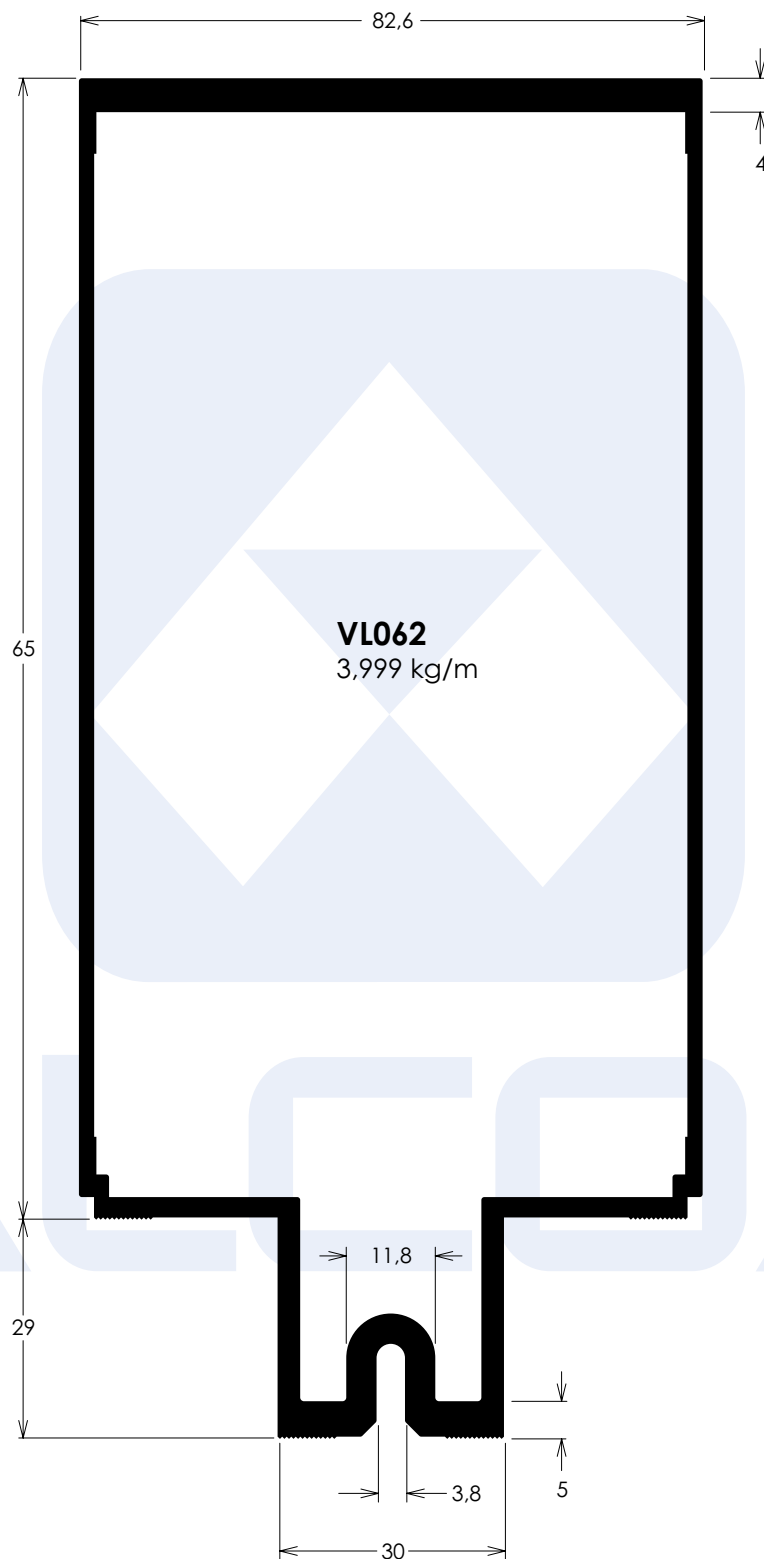


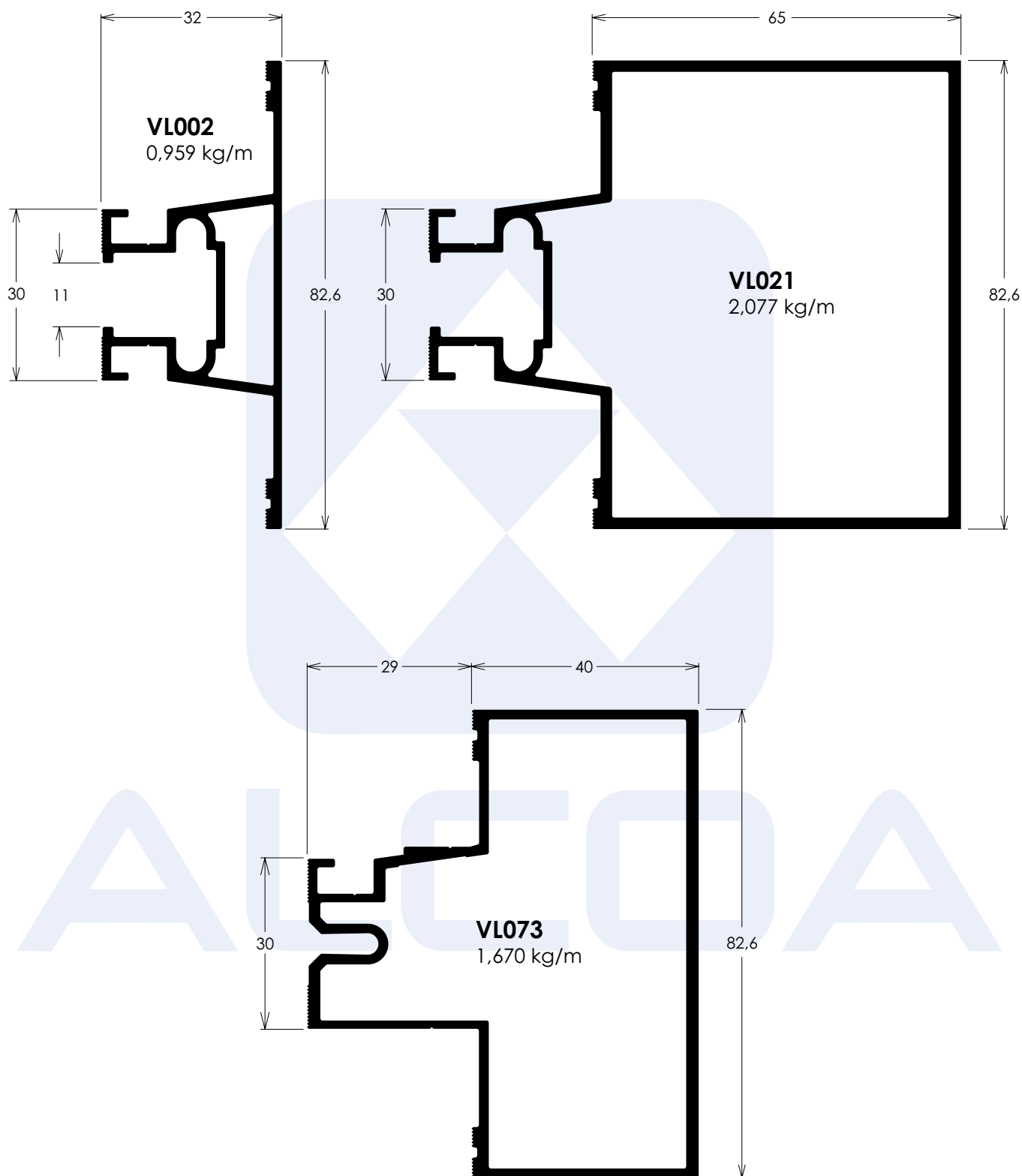


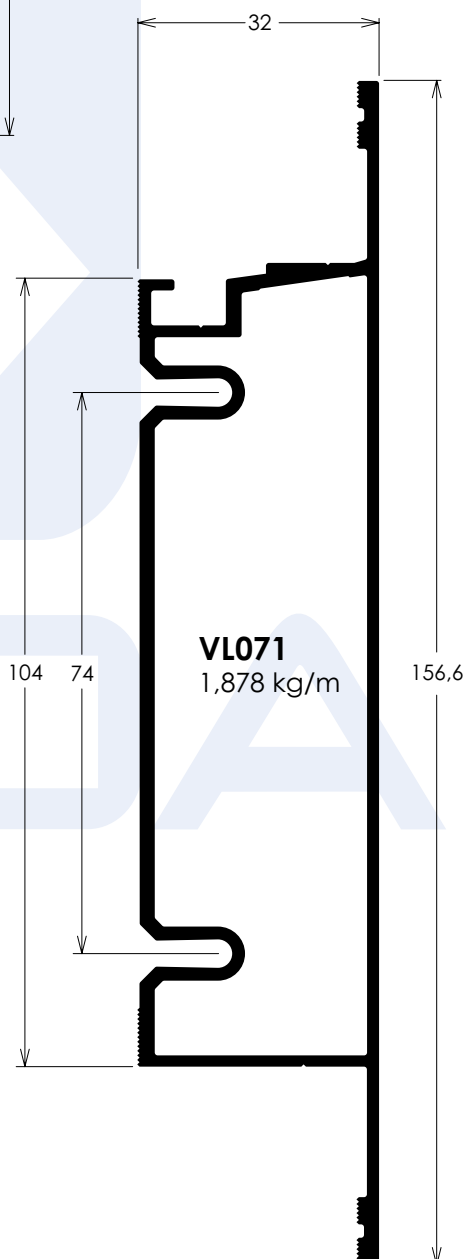
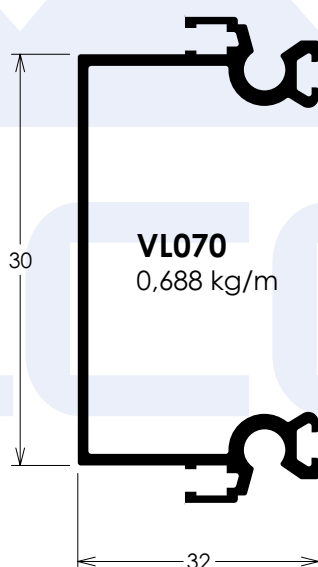
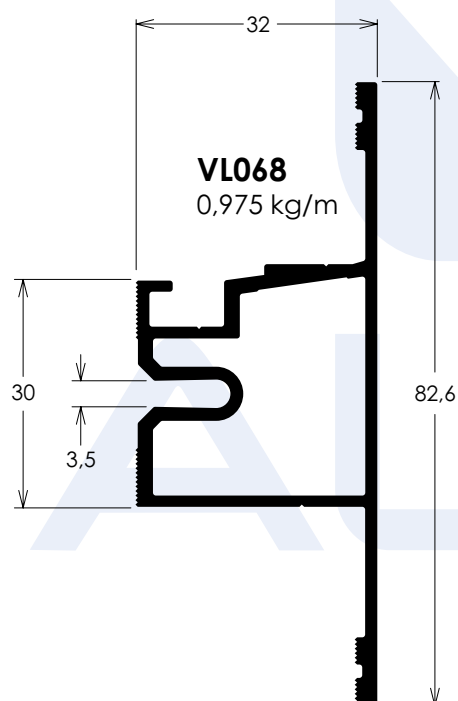
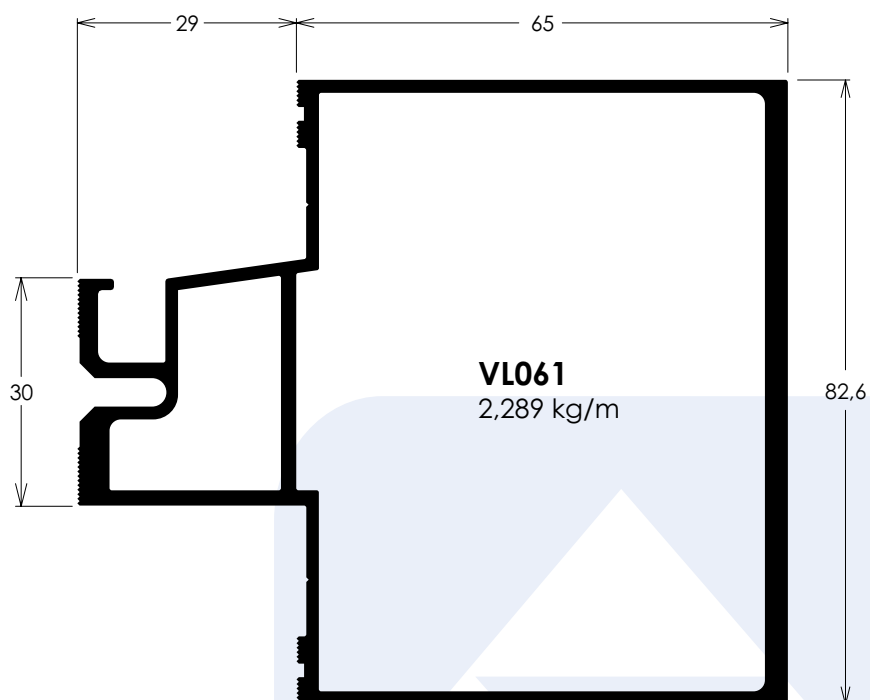


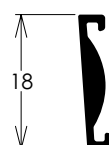
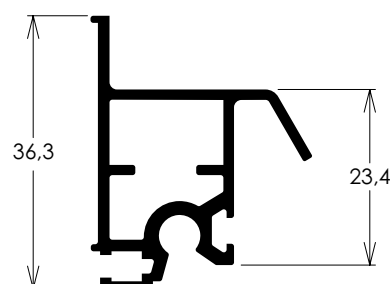
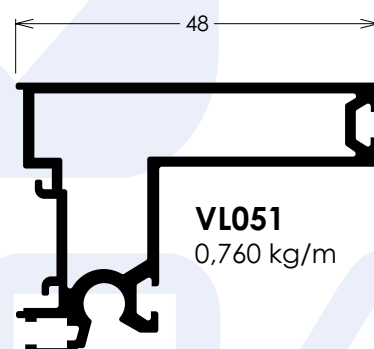
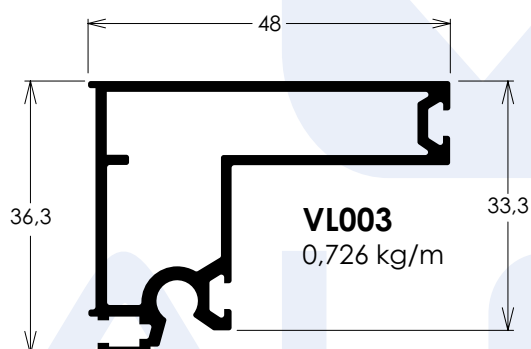
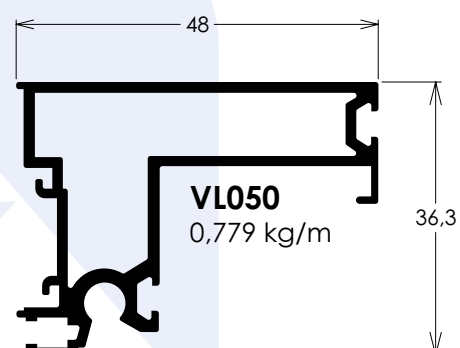
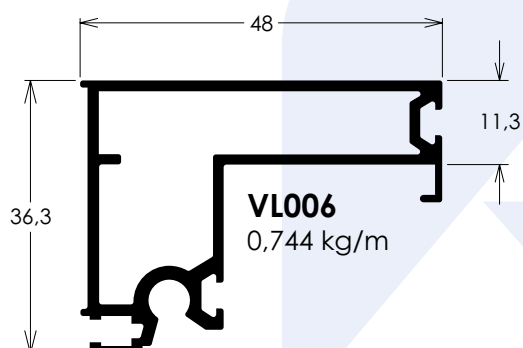
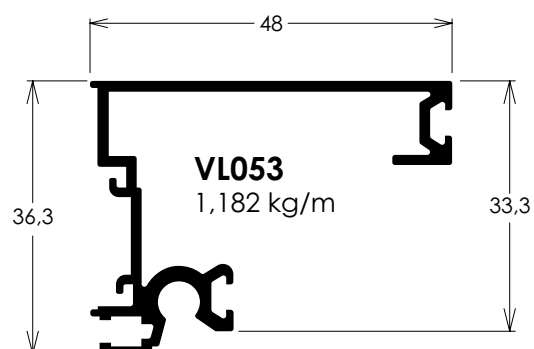
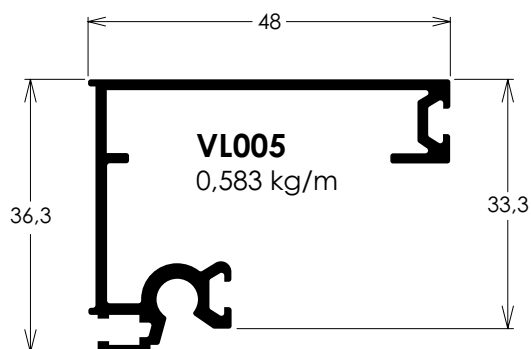




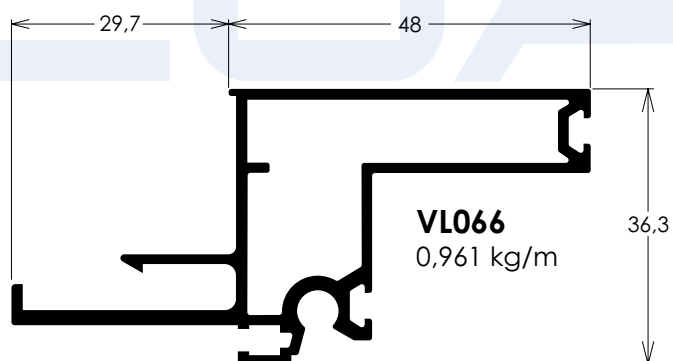
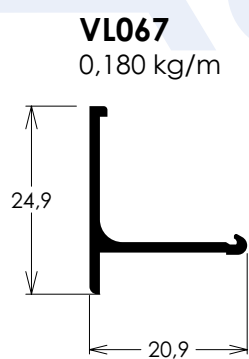
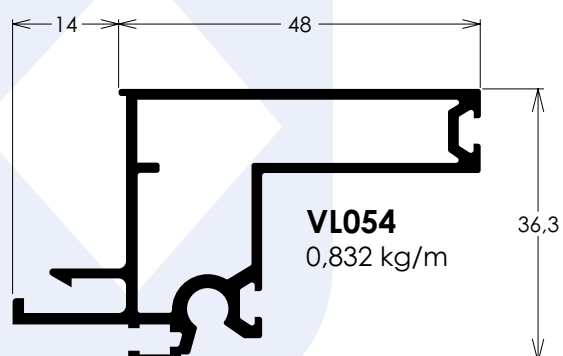
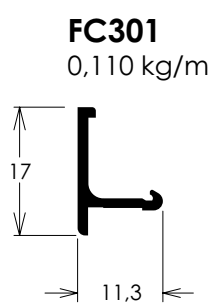
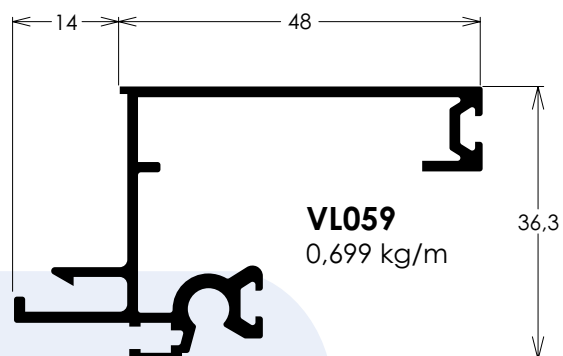
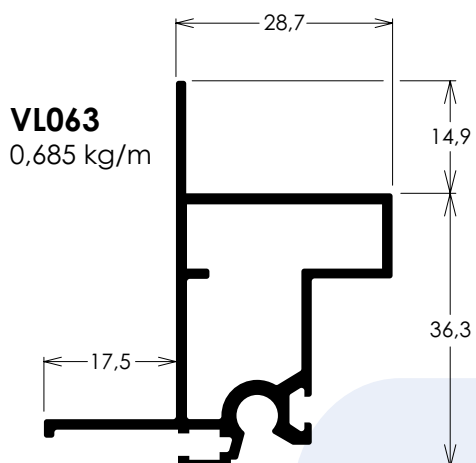


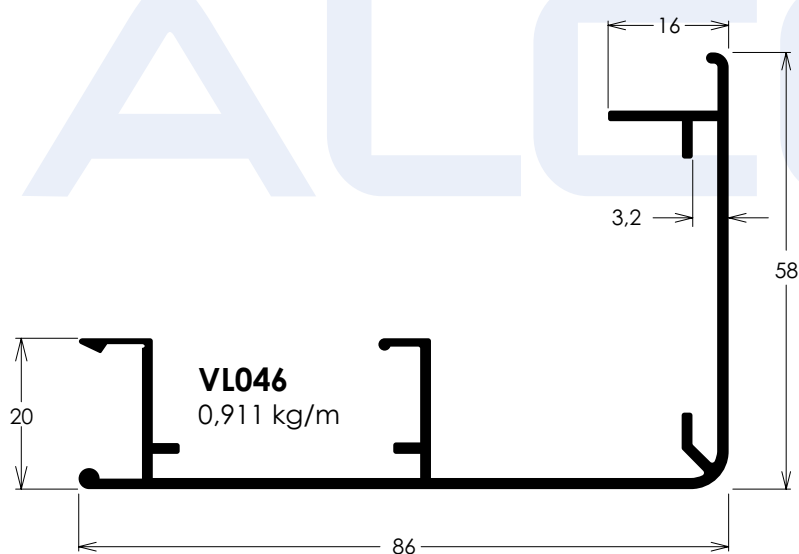
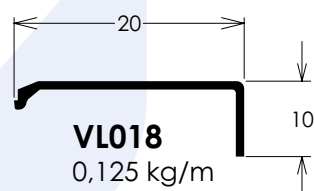
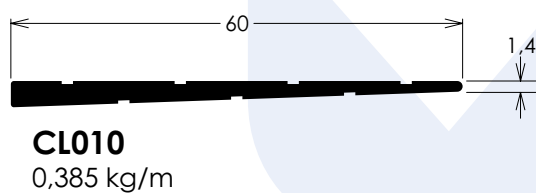
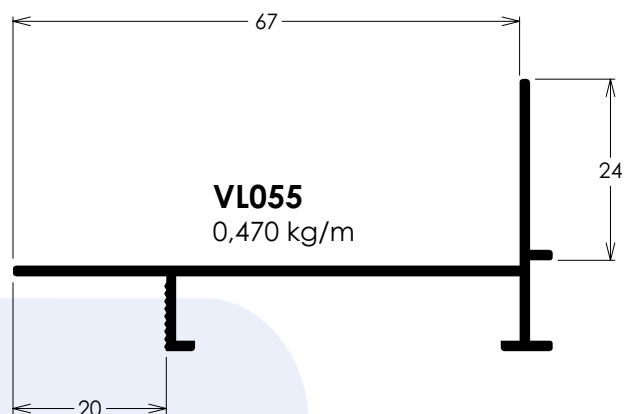
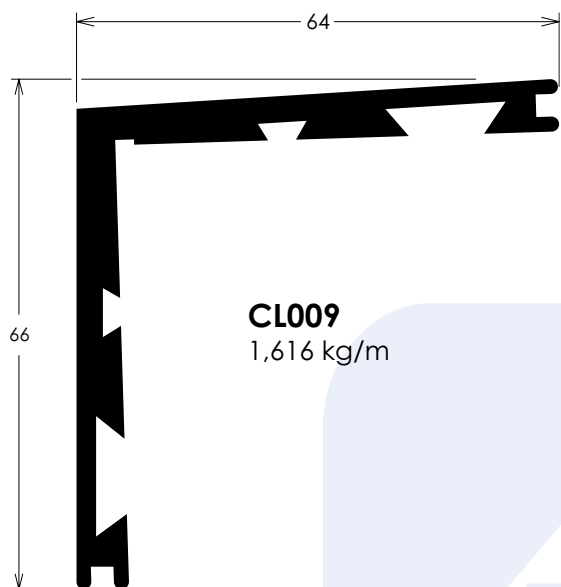


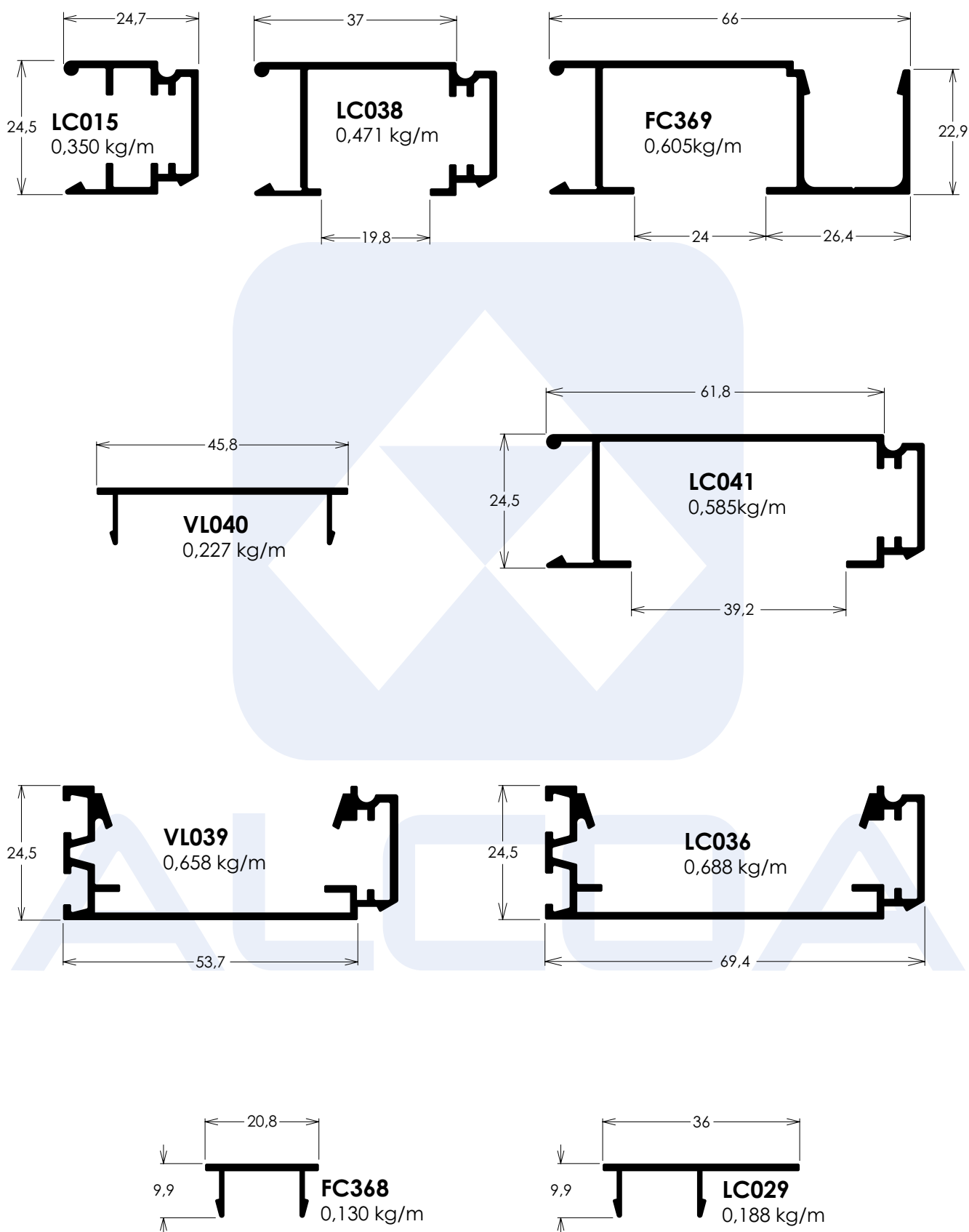




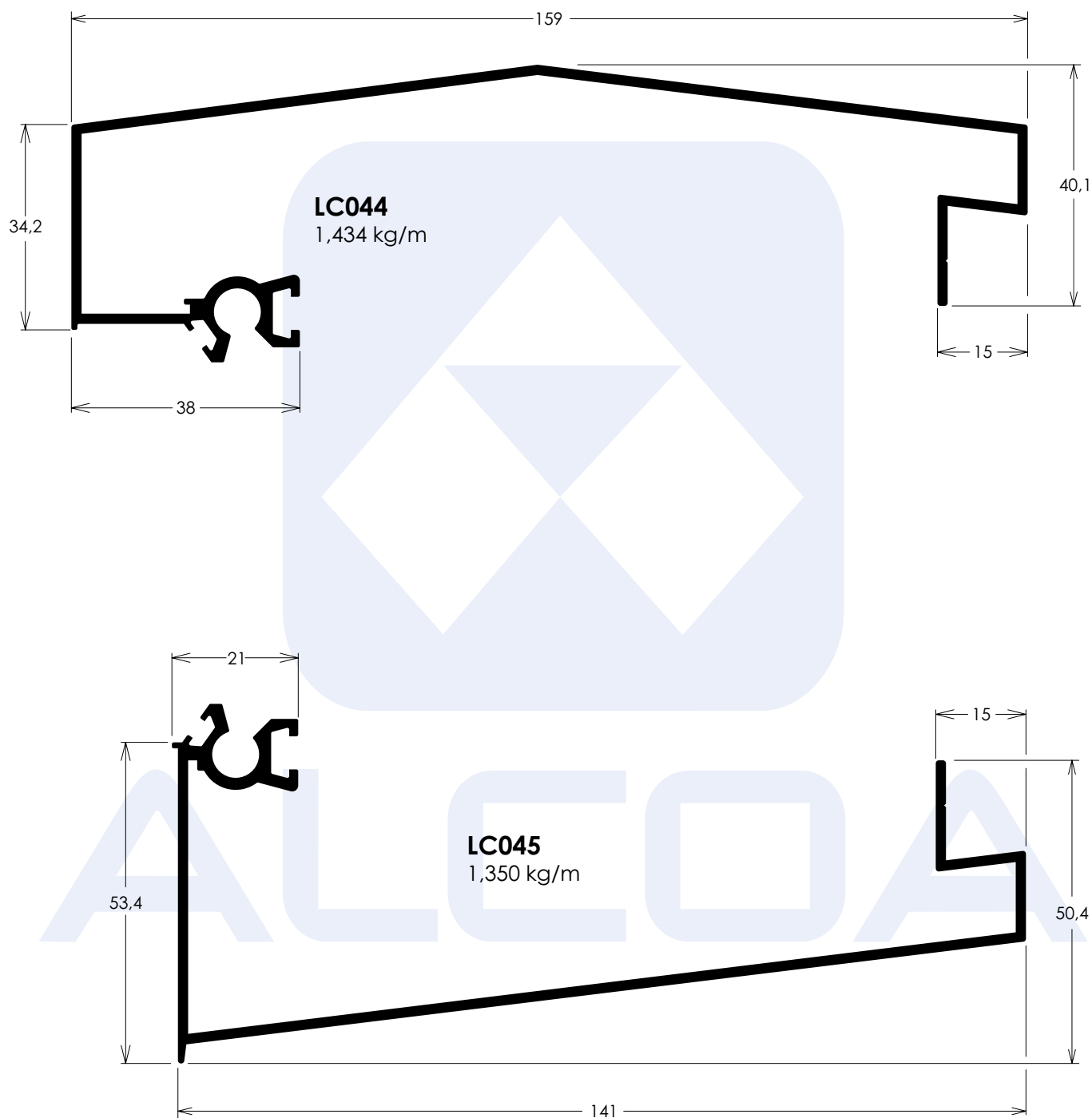
VL052  
0,116 kg/m











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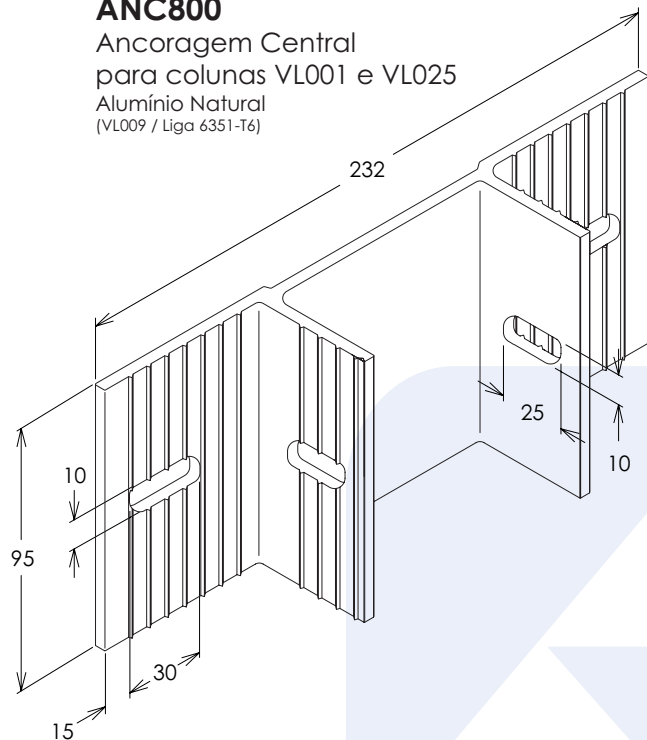
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ALCOA

## ANC800

Ancoragem Central  
para colunas VL001 e VL025

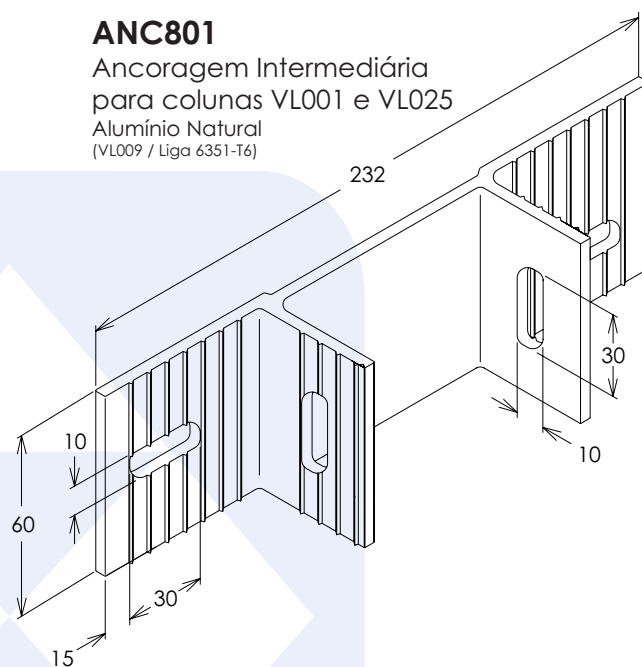
Alumínio Natural  
(VL009 / Liga 6351-T6)



## ANC801

Ancoragem Intermediária  
para colunas VL001 e VL025

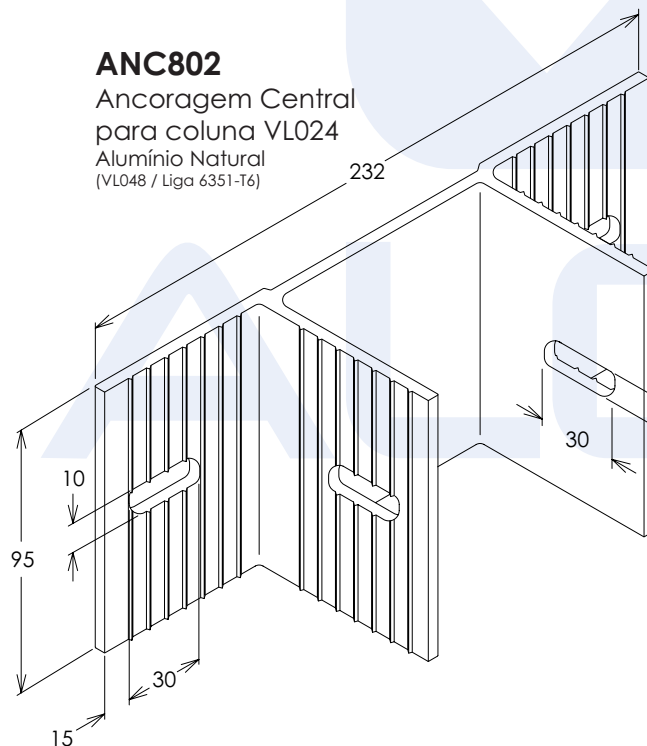
Alumínio Natural  
(VL009 / Liga 6351-T6)



## ANC802

Ancoragem Central  
para coluna VL024

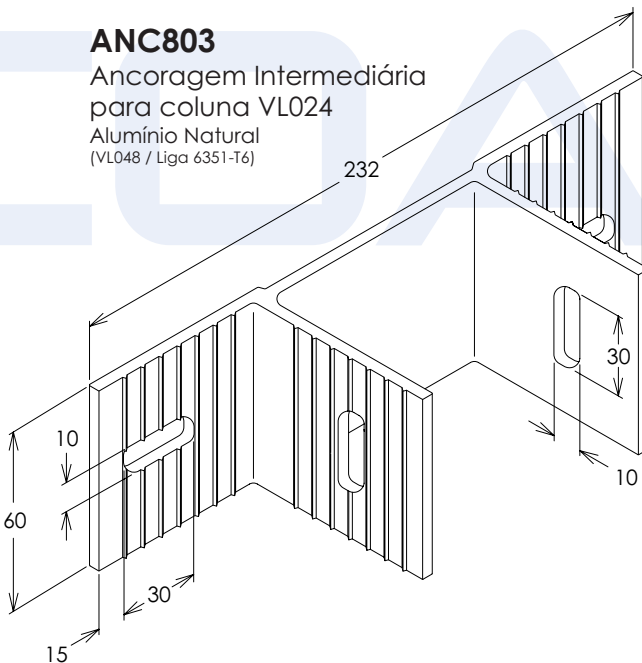
Alumínio Natural  
(VL048 / Liga 6351-T6)



## ANC803

Ancoragem Intermediária  
para coluna VL024

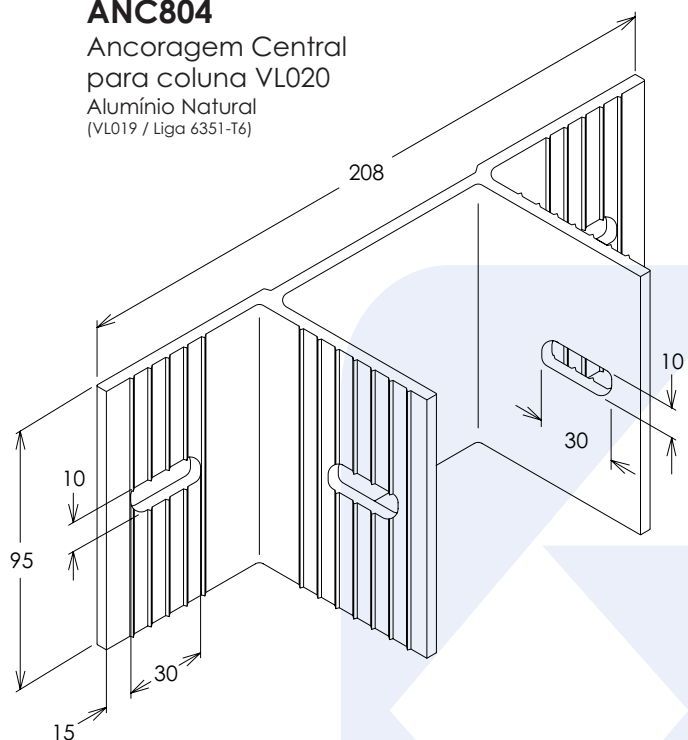
Alumínio Natural  
(VL048 / Liga 6351-T6)



## ANC804

Ancoragem Central  
para coluna VL020

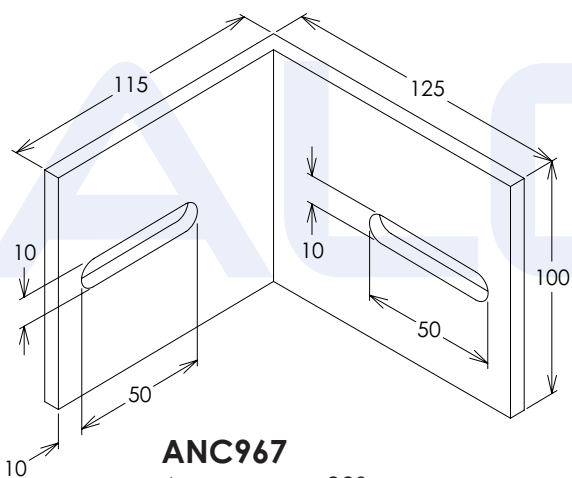
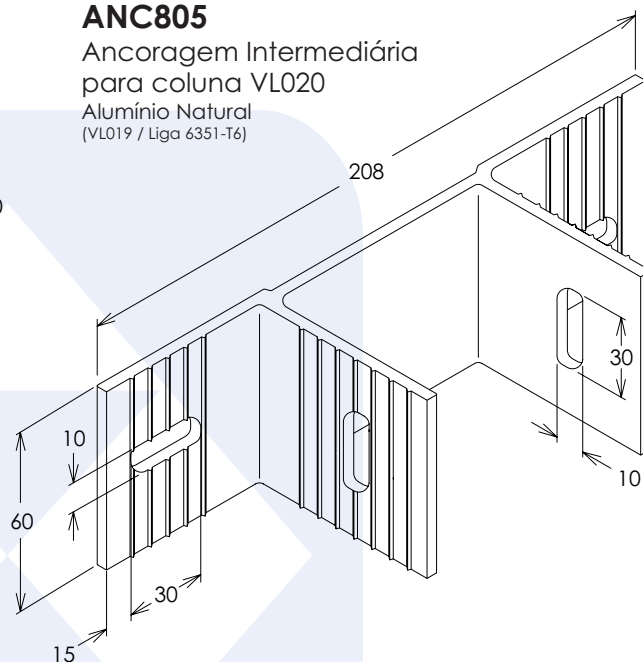
Alumínio Natural  
(VL019 / Liga 6351-T6)



## ANC805

Ancoragem Intermediária  
para coluna VL020

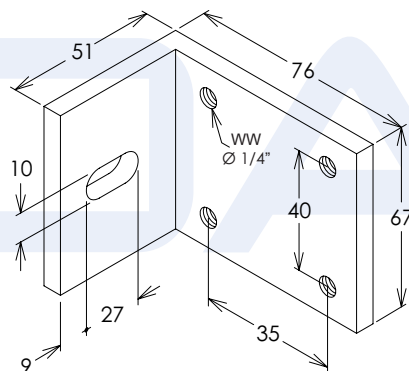
Alumínio Natural  
(VL019 / Liga 6351-T6)



## ANC967

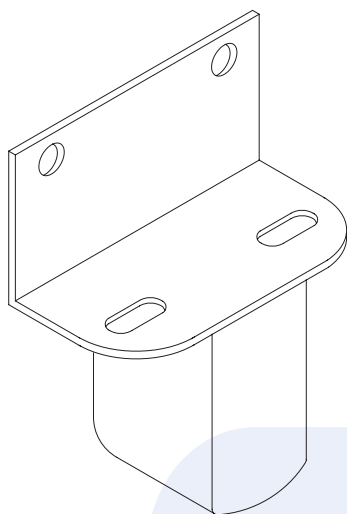
Ancoragem 90°  
para coluna de canto

Alumínio Natural  
(CT638)



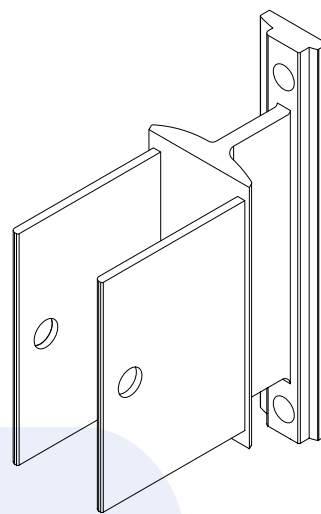
## ANC964

Ancoragem  
Coluna lateral  
Alumínio Natural  
(CT605)



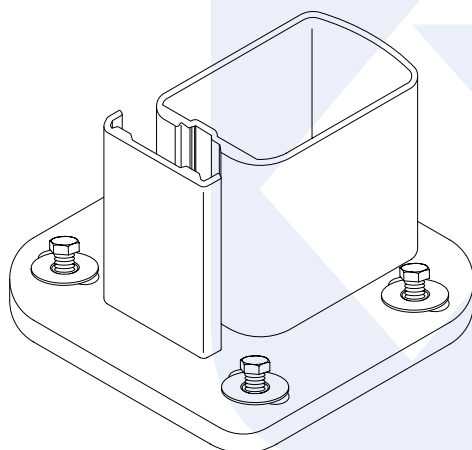
**ANC977**

Ancoragem Telescópica Superior  
Alumínio Fundido Natural



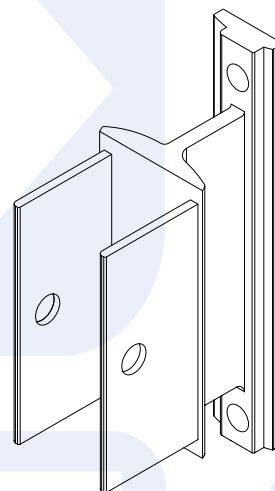
**ANC979**

Ancoragem de fixação  
Para colunas VL024 e VL026  
Alumínio Preto  
(LC050)



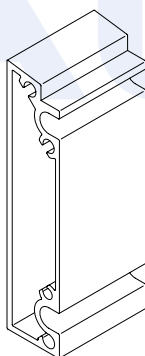
**ANC806**

Ancoragem Inferior  
para colunas VL024, VL025 e VL001  
Alumínio Fundido Natural



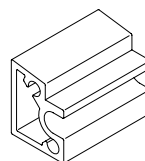
**ANC980**

Ancoragem de fixação  
Para coluna VL027  
Alumínio Preto  
(LC050 refilado)



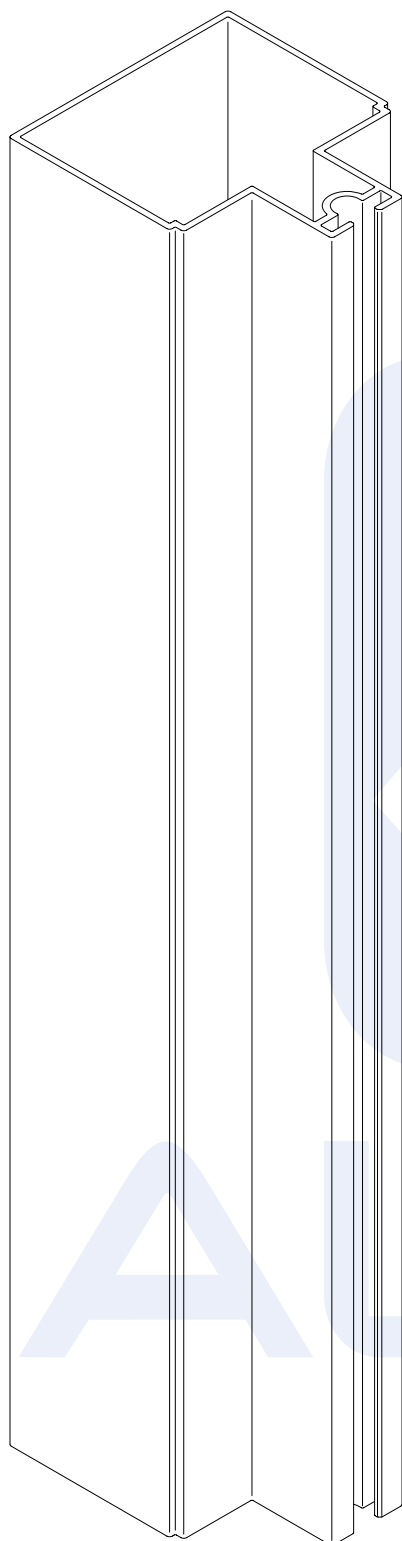
**PRE988**

Presilha de fixação  
Travessa  
38 mm  
Alumínio Natural  
(VL072)



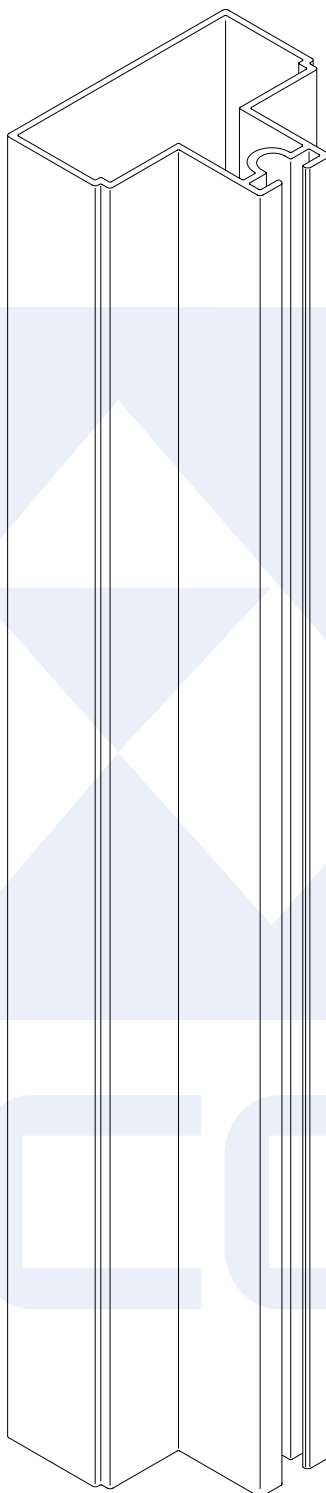
**PRE989**

Presilha de fixação  
Travessa  
38 mm  
Alumínio Natural  
(VL069)



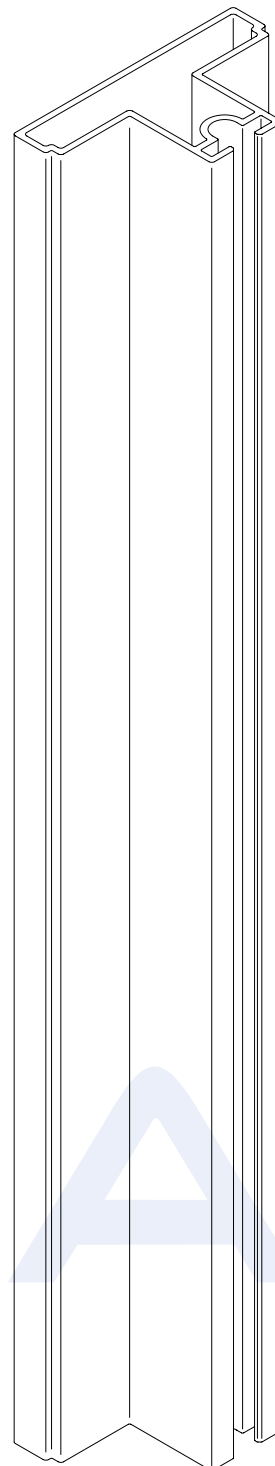
**LUV990**

Luva para coluna VL024  
400 mm  
Alumínio Natural  
(VL043)



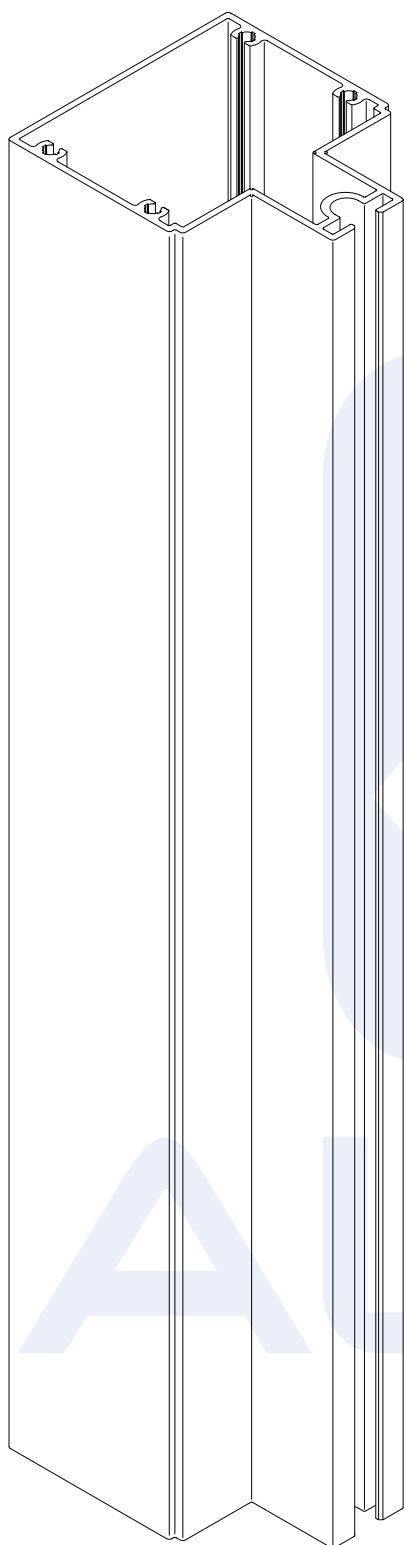
**LUV988**

Luva para coluna VL001  
400 mm  
Alumínio Natural  
(VL010)



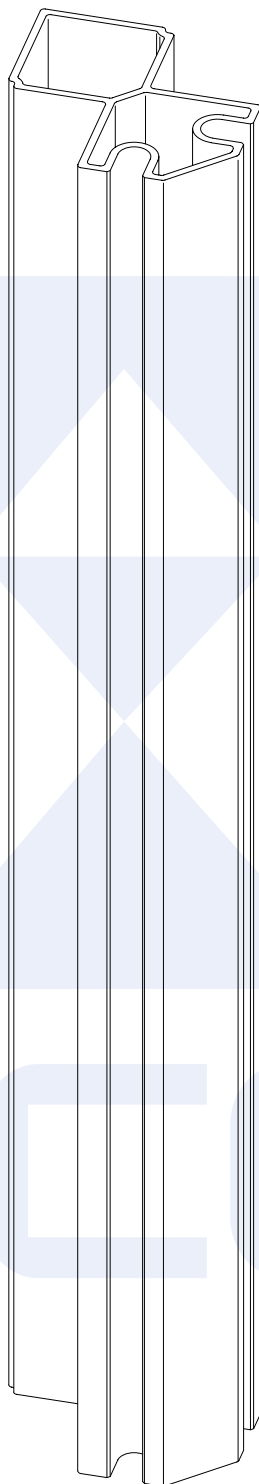
**LUV991**

Luva para coluna VL025  
400 mm  
Alumínio Natural  
(VL049)



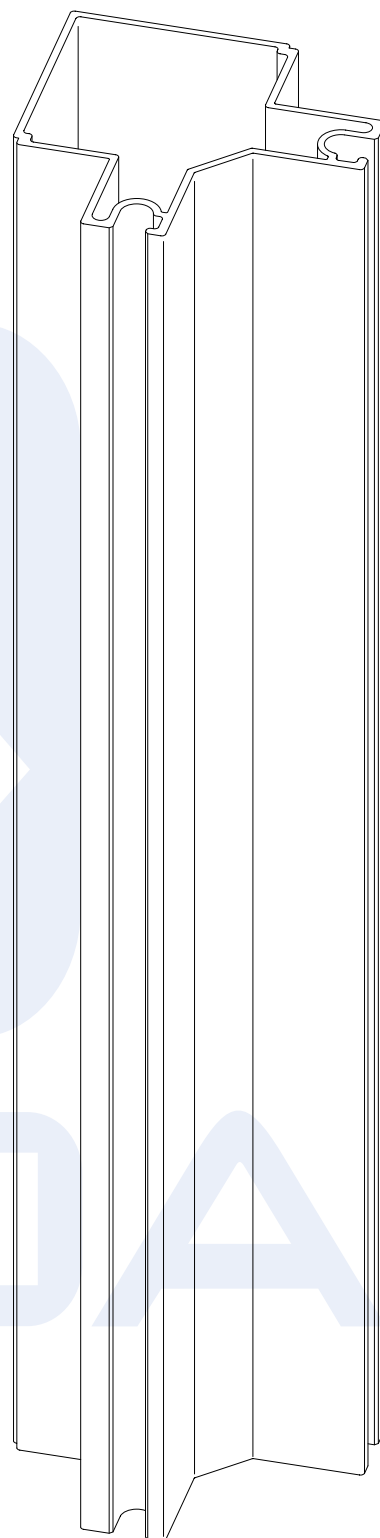
**LUV993**

Luva para coluna VL020  
400 mm  
Alumínio Natural  
(VL022)



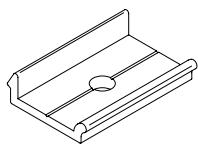
**LUV992**

Luva para coluna VL042  
400 mm  
Alumínio Natural  
(VL045)

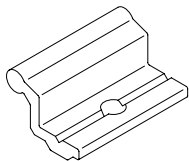


**LUV989**

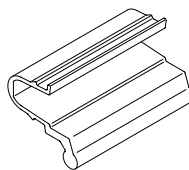
Luva para coluna VL041  
400 mm  
Alumínio Natural  
(VL044)



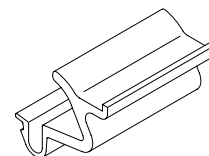
**PRE976**  
Presilha  
Arremate interno  
30 mm  
Alumínio Natural  
(FC400)



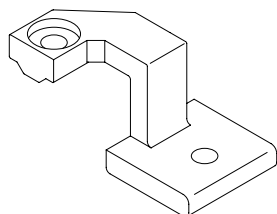
**PRE981**  
Presilha vertical  
Quadros  
30 mm  
Alumínio Preto  
(VL011)



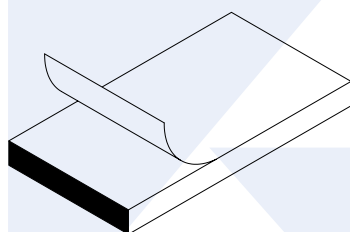
**PRE983R**  
Presilha horizontal  
Quadros  
30 mm  
Alumínio Preto  
(VL065)



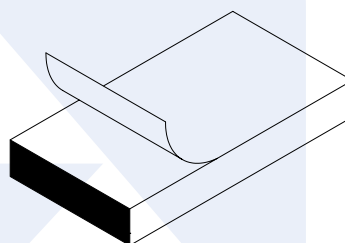
**PRE984**  
Presilha de apoio  
Quadros  
30 mm  
Alumínio Natural  
(VL017)



**CON431E**  
Fixador de Travessas  
Alumínio Natural



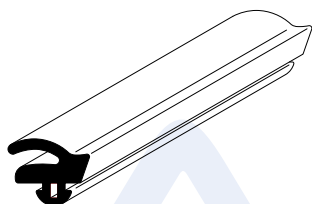
**GUA371**  
Guarnição adesiva  
21mm x 3mm  
vidro 8mm  
PVC Preto - células fechadas



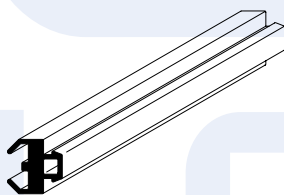
**GUA372**  
Guarnição adesiva  
21mm x 5mm  
vidro 6mm  
PVC Preto - células fechadas



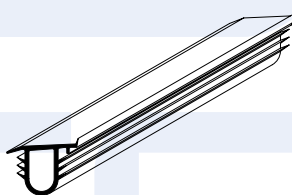
**Reddiglaze  
Super Glue**  
Adesivo  
para Guarnições



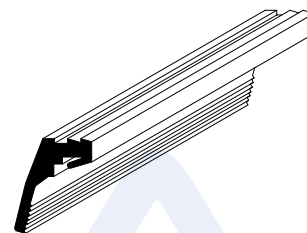
**GUA366**  
Guarnição  
E.P.D.M. Preto



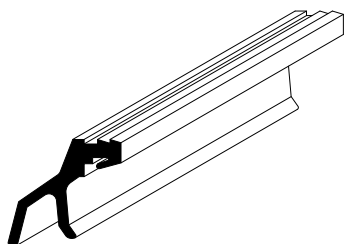
**GUA246**  
Guarnição  
E.P.D.M. Preto



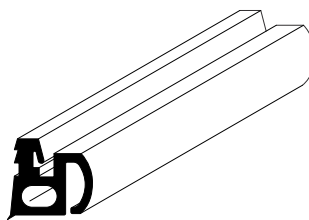
**GUA375**  
Guarnição  
E.P.D.M. Preto



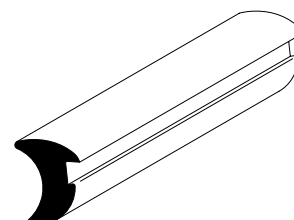
**GUA367**  
Guarnição  
E.P.D.M. Preto



**GUA368**  
Guarnição  
E.P.D.M. Preto

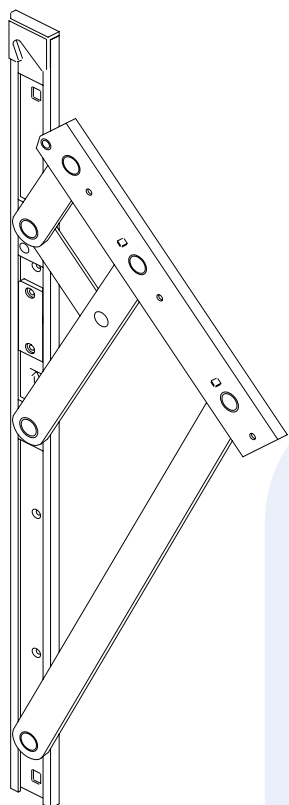


**GUA369**  
Guarnição  
E.P.D.M. Preto



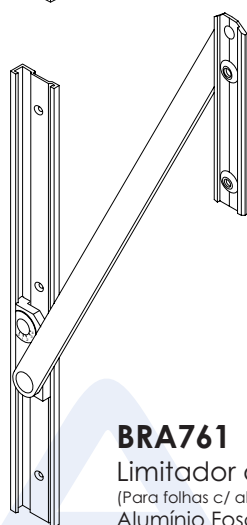
**GUA168**  
Guarnição  
E.P.D.M. Preto



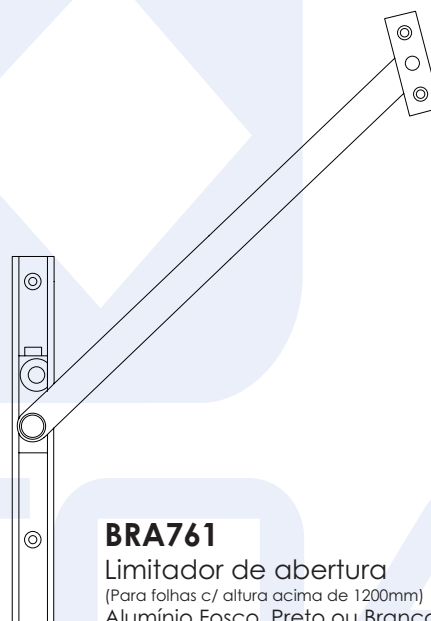


	Dimensão (mm)	Altura da Folha (mm)	Largura da Folha (mm)	Carga Máxima
<b>BRA762</b>	<b>342</b>	Min: 390 Max: 600	Max: 1500	<b>22kg</b>
<b>BRA763</b>	<b>600</b>	Min: 640 Max: 1000	Max: 1500	<b>35kg</b>
<b>BRA764</b>	<b>951</b>	Min: 1000 Max: 1200	Max: 1500	<b>45kg</b>

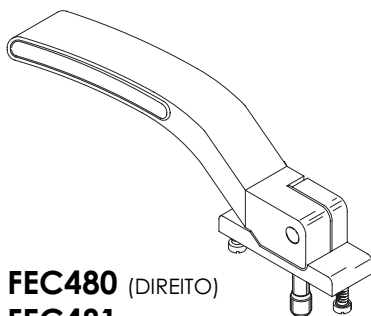
Braço Maxim ar  
Alumínio Fosco, Preto ou Branco



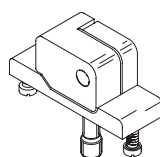
**BRA761**  
Limitador de abertura  
(Para folhas c/ altura acima de 1200mm)  
Alumínio Fosco, Preto ou Branco



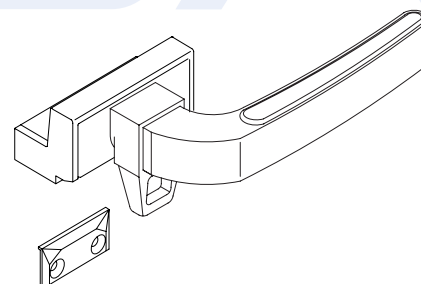
**BRA761**  
Limitador de abertura  
(Para folhas c/ altura acima de 1200mm)  
Alumínio Fosco, Preto ou Branco



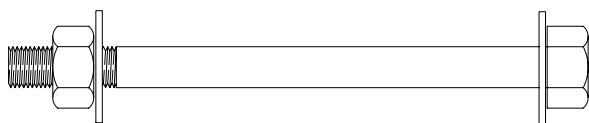
**FEC480** (DIREITO)  
**FEC481** (ESQUERDO)  
Fecho Articulado  
Alumínio Fosco, Preto ou Branco



**FEC482**  
Fecho articulado  
Alumínio Preto

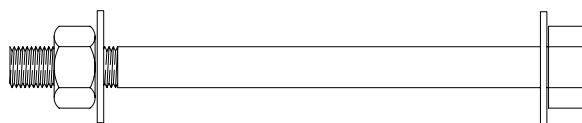


**FEC478** (DIREITO)  
**FEC479** (ESQUERDO)  
Fecho Punho  
Alumínio Fosco, Preto ou Branco



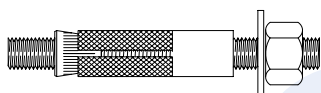
## PAR062

Parafuso sextavado WW Ø 1/4" x 50mm  
2 arruelas e 1 porca  
Aço Inox



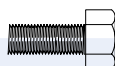
## PAR716

Parafuso sextavado WW Ø 3/8" x 5"  
2 arruelas e 1 porca  
Aço Inox



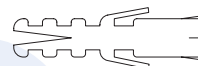
## CHU795

Chumbador com porca, arruela  
e prisioneiro 9,5mm x 80mm  
Aço Inox



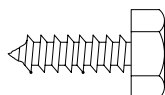
## PAR690

Parafuso sextavado  
WW Ø 1/4" x 5/8"  
Aço Inox



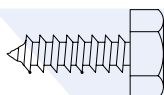
## BUC755

Bucha para fixação S-8  
Nylon



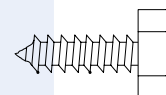
## PAR063

Parafuso sextavado  
AA Ø 4,8mm x 19mm  
Aço Inox



## PAR061

Parafuso sextavado  
AA Ø 6,3mm x 25mm  
Aço Inox



## PAR060

Parafuso sextavado  
AA Ø 4,8mm x 32mm  
Aço Inox



## PAR428

Parafuso PP lisa  
AA Ø 4,8mm x 32mm  
Aço Inox



## PAR437

Parafuso AA  
Ø 3,5mm x 9,5mm CP  
Aço Inox



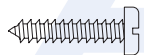
## PAR991

Parafuso AA  
Ø 4,2mm x 13mm CP  
Aço Inox Preto



## PAR936

Parafuso AA  
Ø 4,2mm x 16mm CP  
Aço Inox



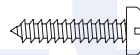
## PAR691

Parafuso AA  
Ø 4,8mm x 13mm CP  
Aço Inox



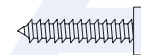
## PAR705

Parafuso AA  
Ø 4,8mm x 16mm CP  
Aço Inox Preto



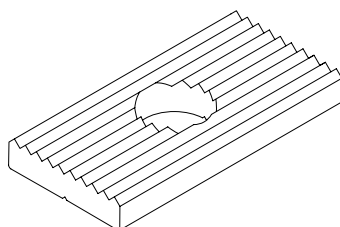
## PAR695

Parafuso AA  
Ø 4,8mm x 19mm CP  
Aço Inox



## PAR992

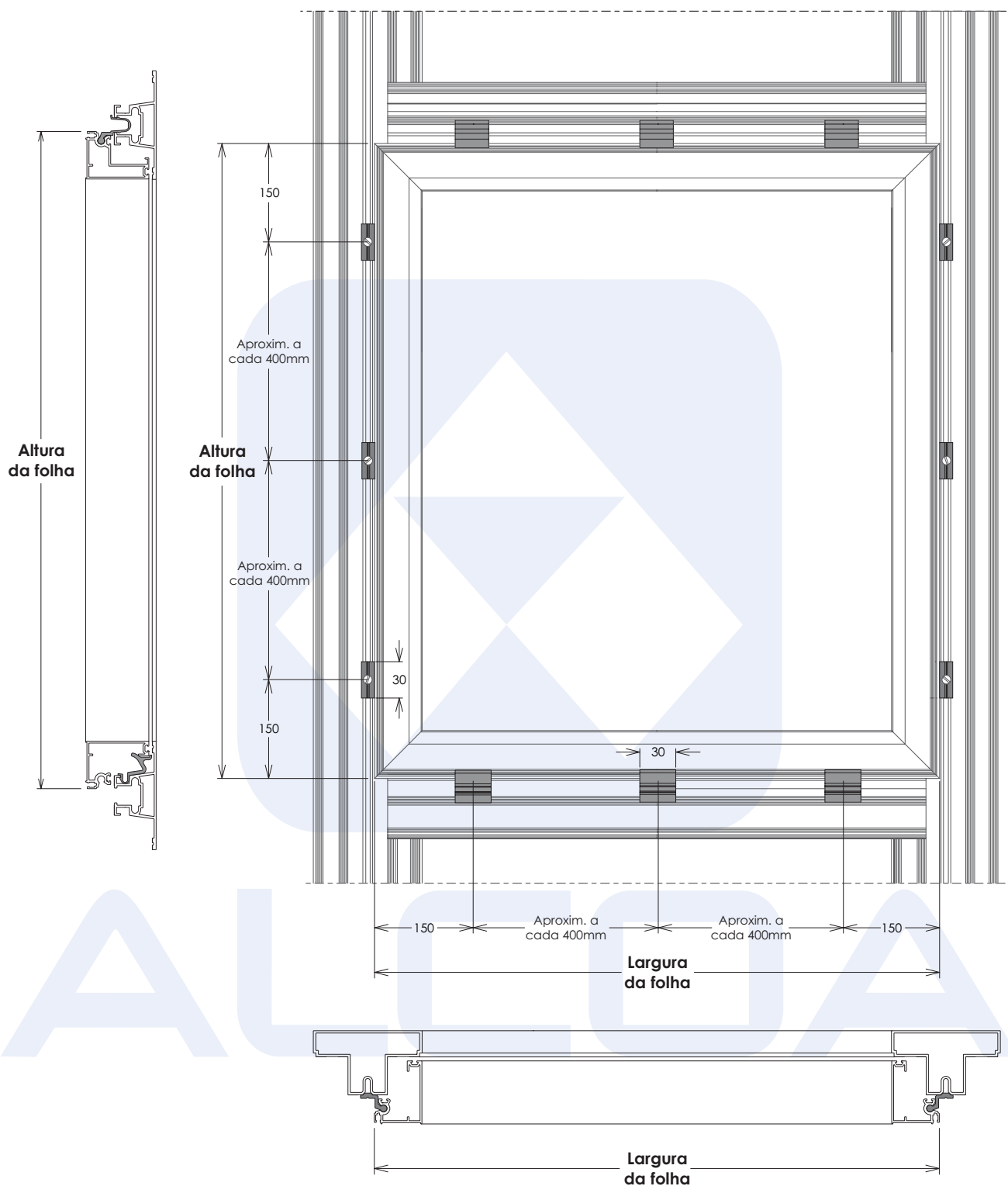
Parafuso AA  
Ø 4,8mm x 50mm CP  
Aço Inox Preto



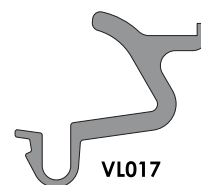
## ARR759

Arruela de ancoragem  
40 mm  
Alumínio Natural  
(FC512)

## Fixação das folhas / Posicionamento das presilhas



### PRESILHAS



Os capítulos referentes a



**Usinagens**



**Instruções de montagem**



**Desenhos de montagem**



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