

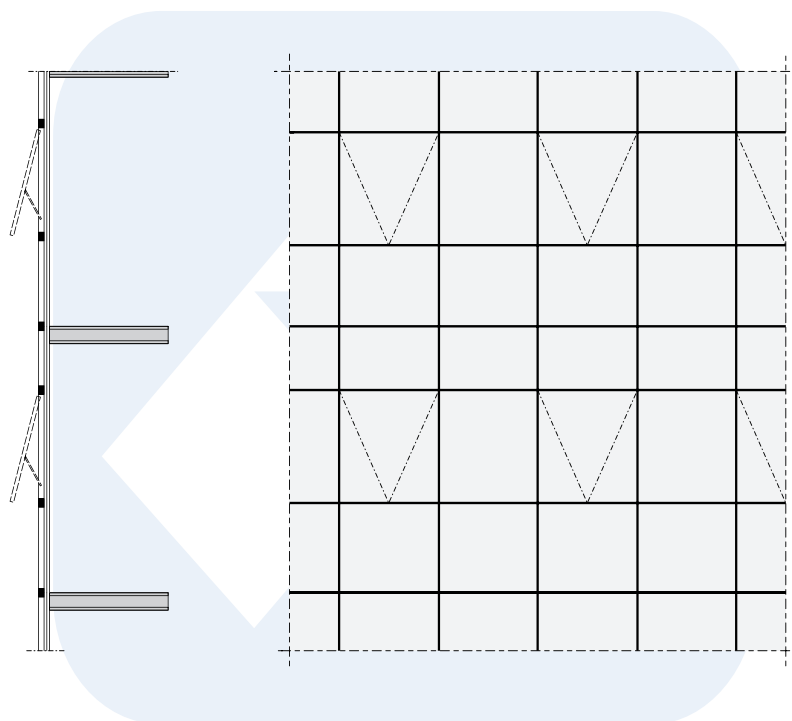


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ALCOA

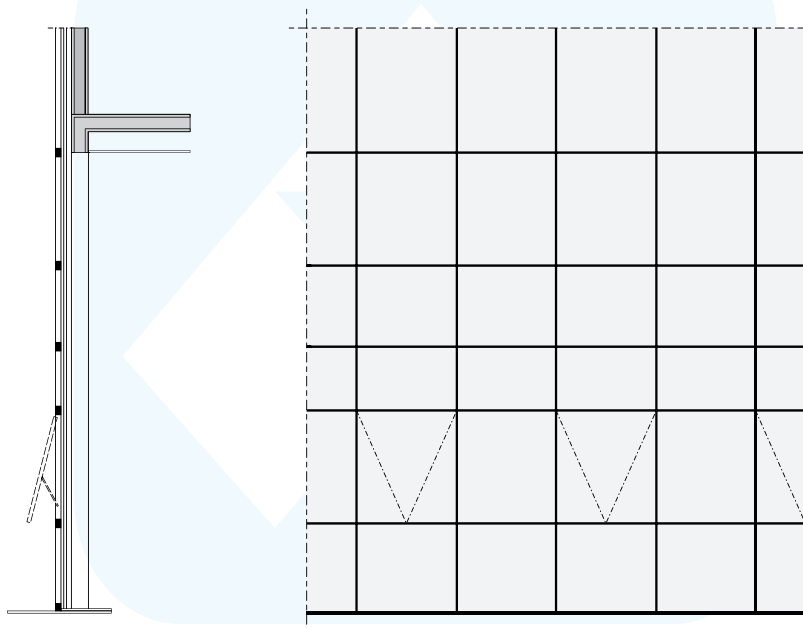
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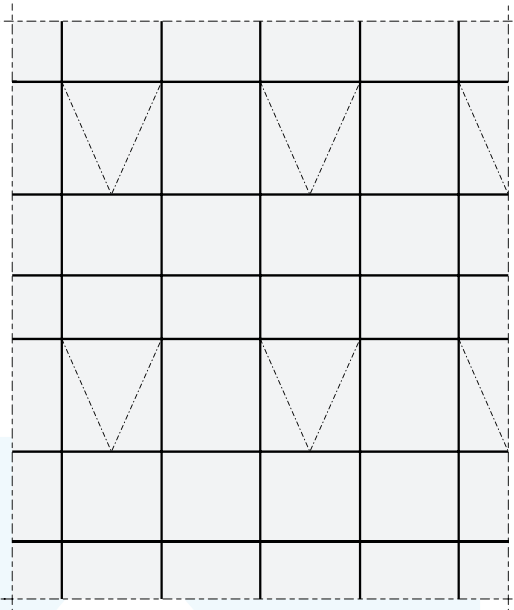
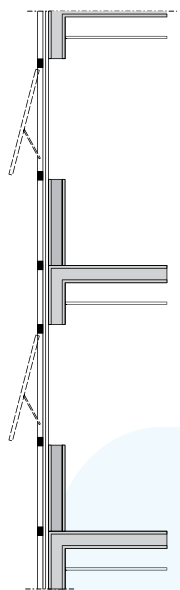
ALCOA



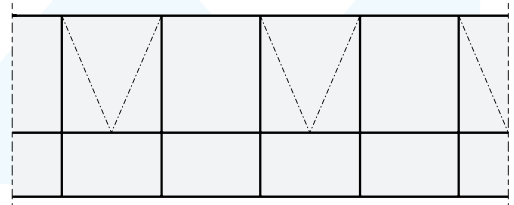
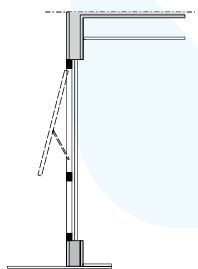
## Térreos



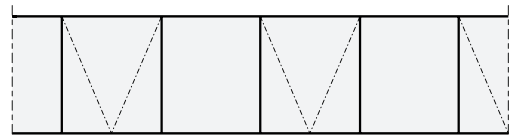
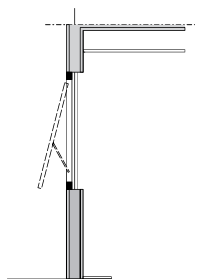
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**Fachada Entre-vão**



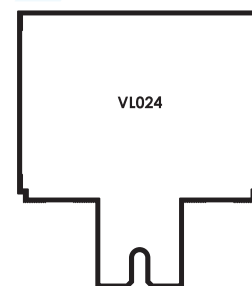
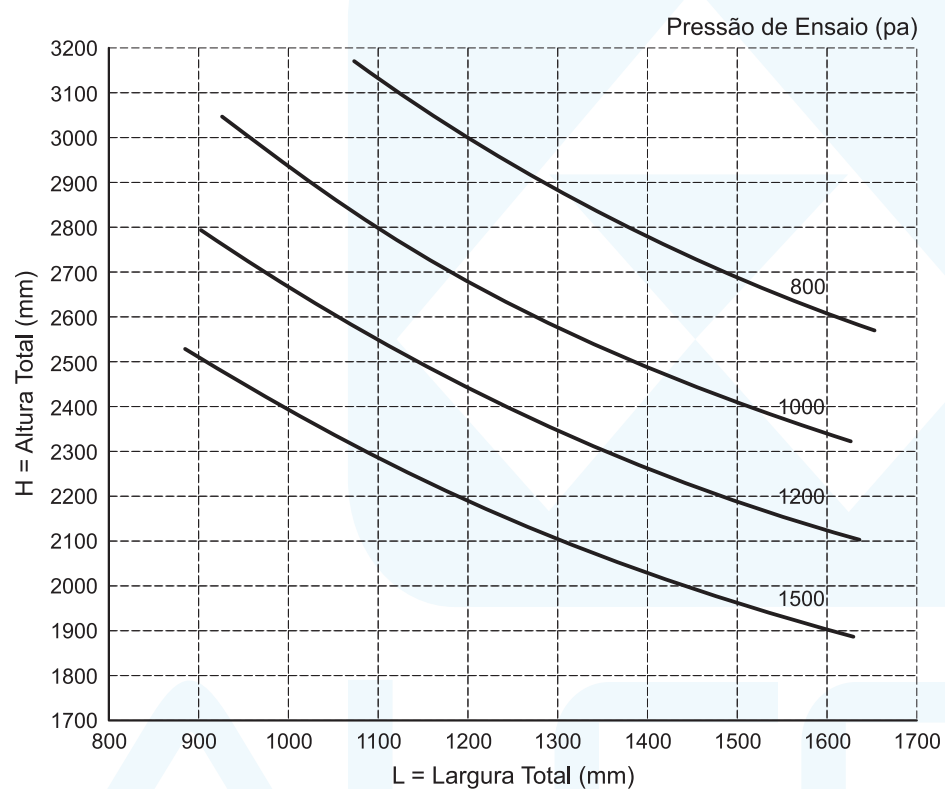
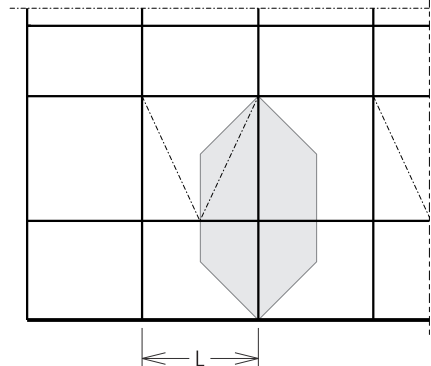
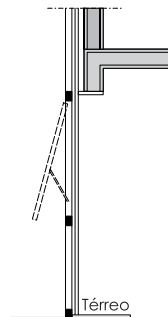
**Fachada Entre-vão**





## Engaste / Apoio Simples

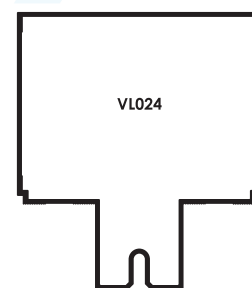
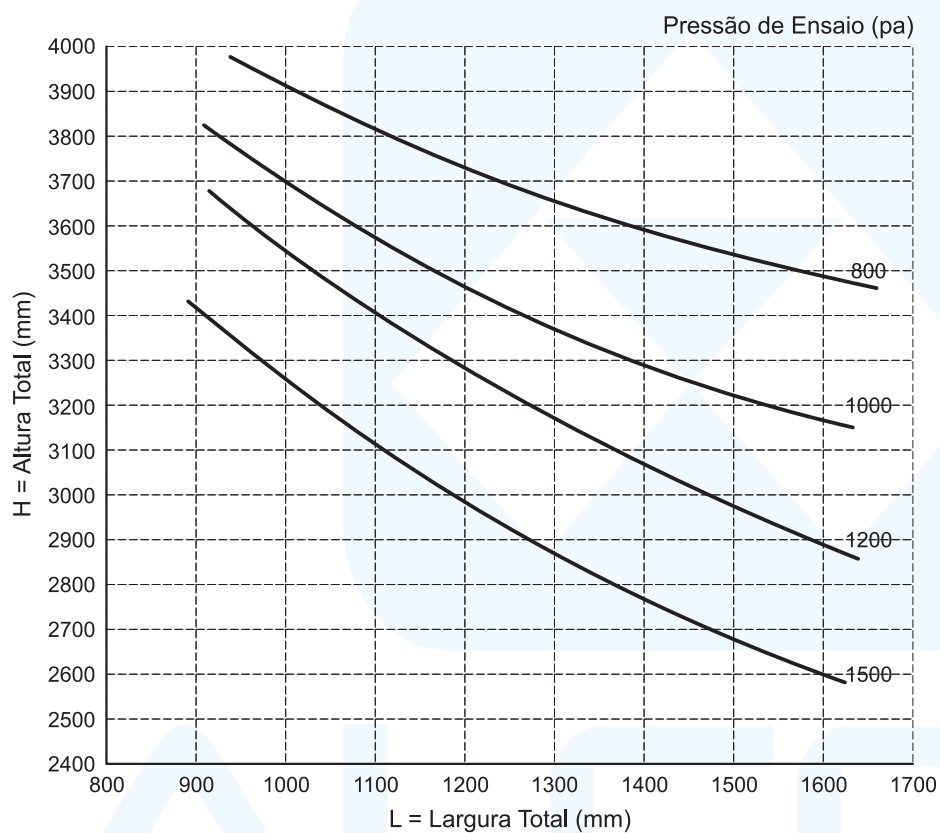
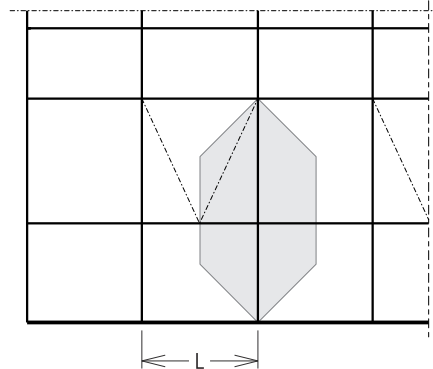
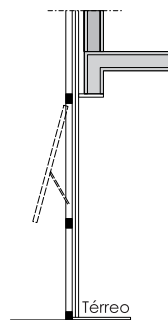
Liga 6060 T5



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)



VL024  
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

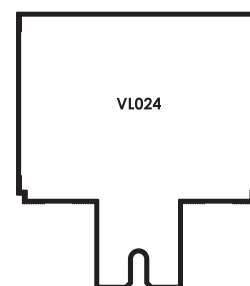
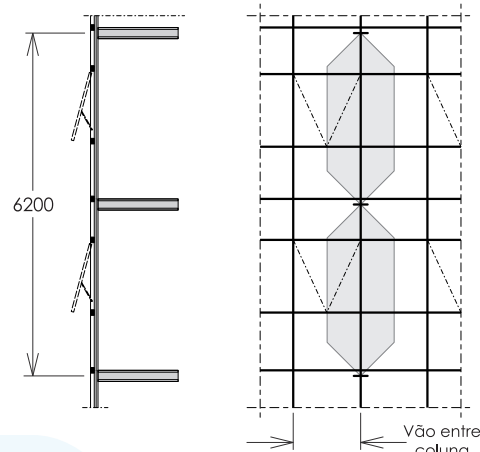
Vão entre colunas = 1000 mm: pressão máxima = 90 kg/m<sup>2</sup>

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

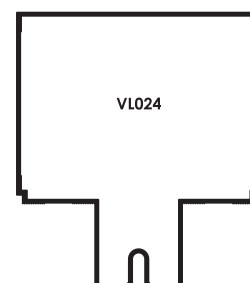
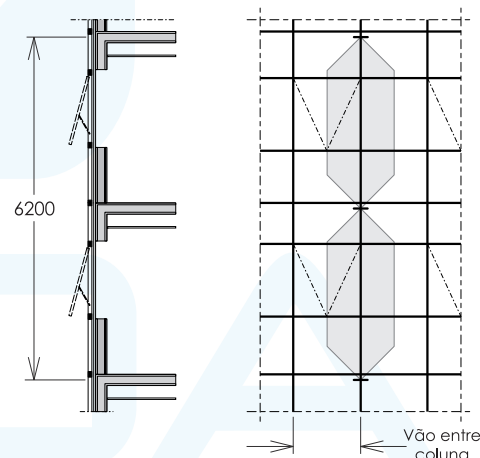
Vão entre colunas = 1000 mm: pressão máxima = 129 kg/m<sup>2</sup>

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

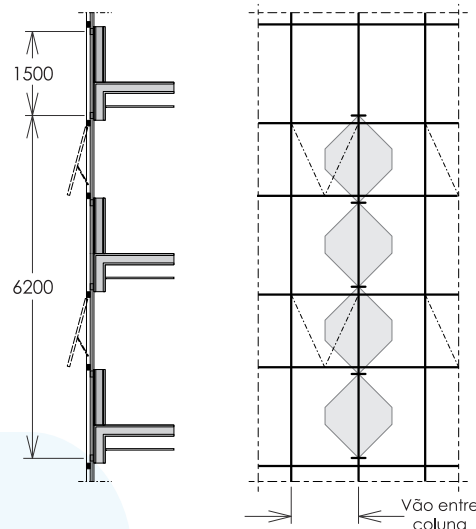
Vão entre colunas = 1000 mm: pressão máxima = 151 kg/m<sup>2</sup>

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

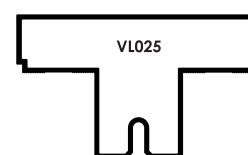
Vão entre colunas = 1000 mm: pressão máxima = 228 kg/m<sup>2</sup>

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



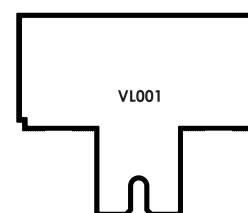
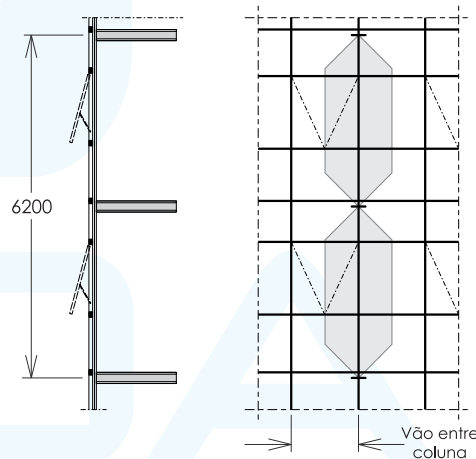
### VL001 : Liga 6005A - Têmpera T5 (Sob consulta)

#### 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

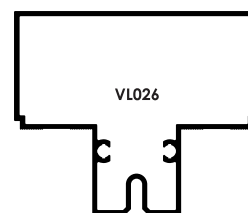
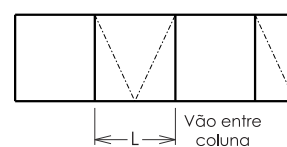
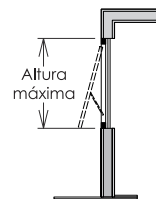
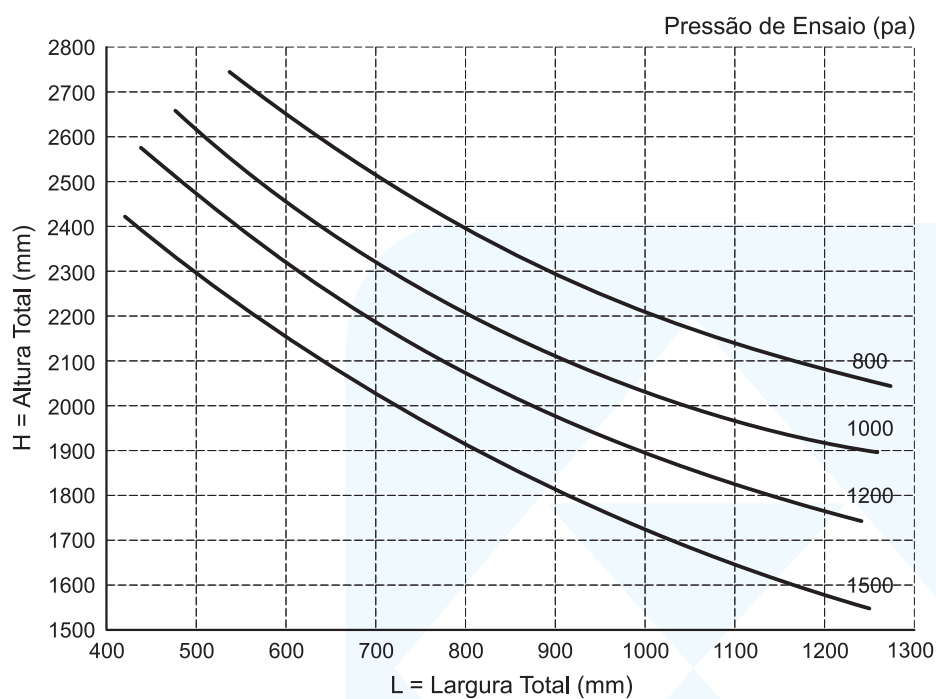
Sempre que houver possibilidade de se colocar mais de uma ancoragem, com espaçamento entre elas maior que 500mm, favor consultar, pois poderá favorecer do ponto de vista estrutural.

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



## Entre-vão

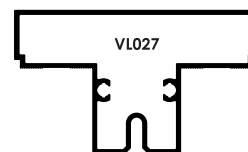
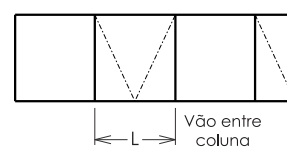
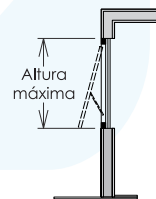
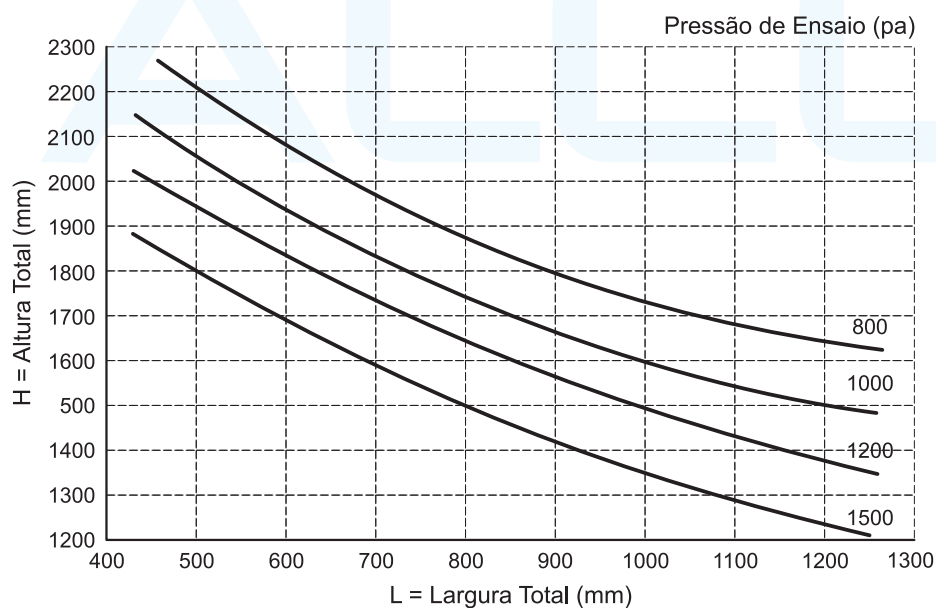
### VL026 : Liga 6060 - Têmpera T5



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

## Entre-vão

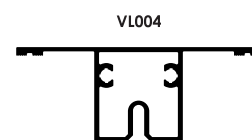
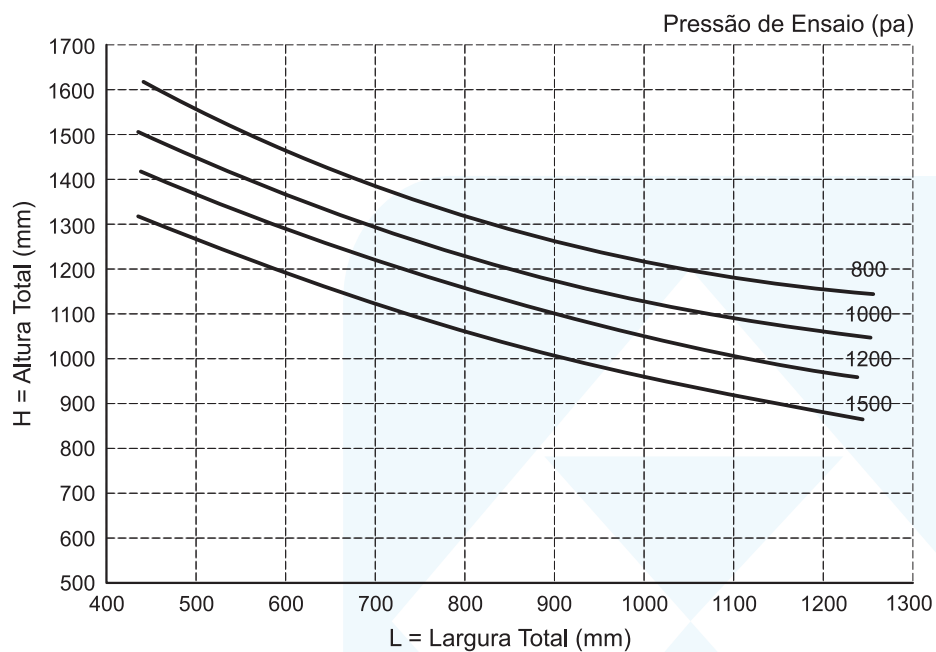
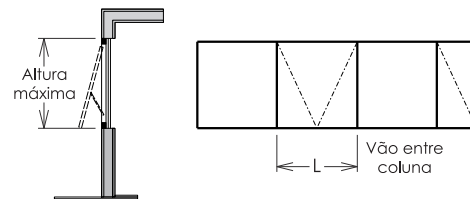
### VL027 : Liga 6060 - Têmpera T5



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

## Entre-vão

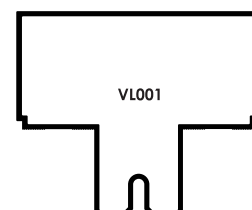
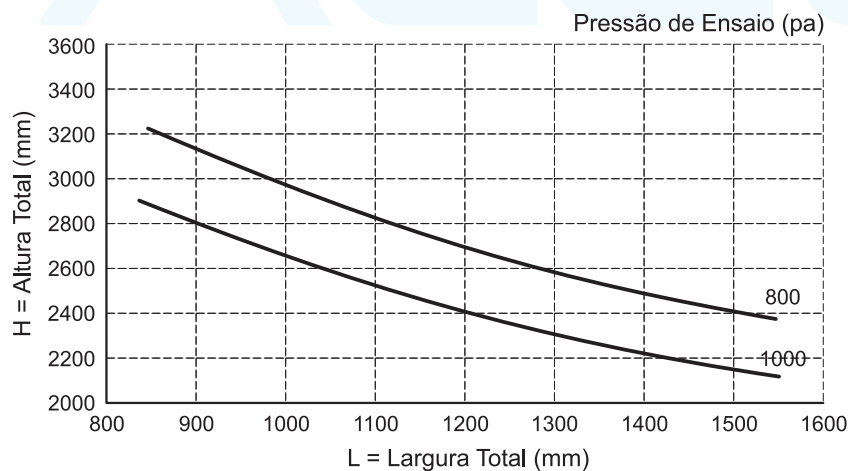
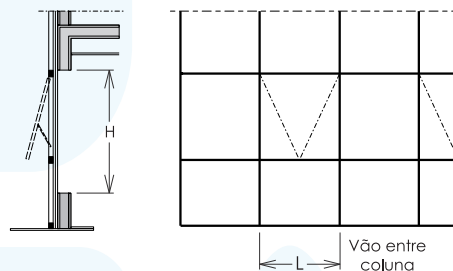
**VL004 : Liga 6060 - Têmpera T5**



VL004  
Área = 366 mm<sup>2</sup>  
Jx = 47889 mm<sup>4</sup>  
Wx = 2412 mm<sup>3</sup>

## Duplo engaste

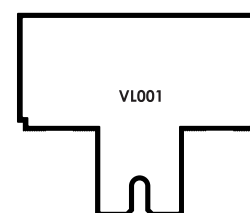
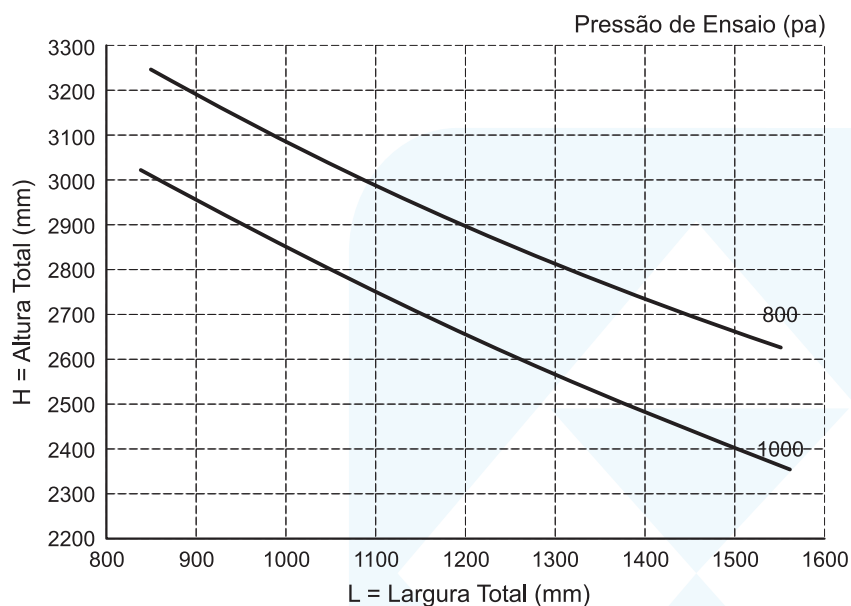
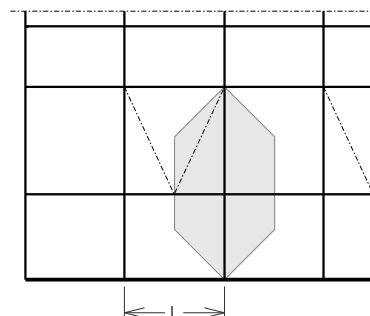
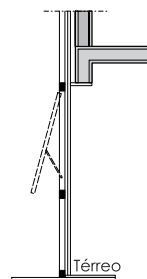
**VL001 : Liga 6060 - Têmpera T5**



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

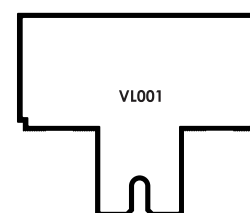
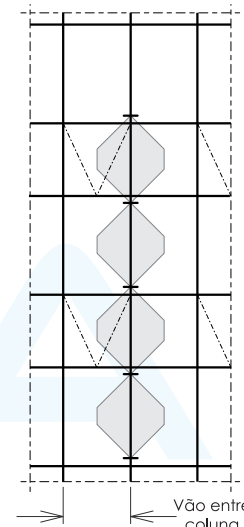
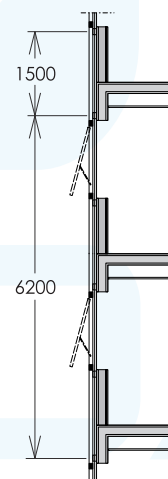
VL001 : Liga 6060 - Têmpera T5

### 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

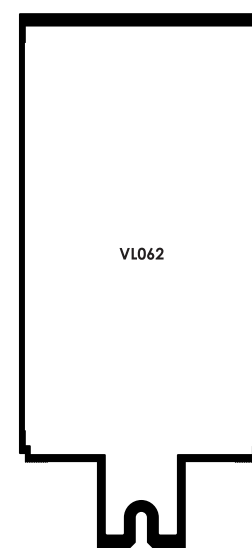
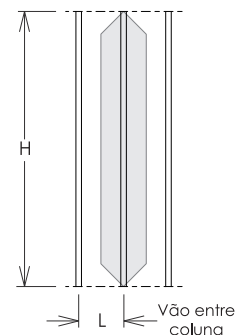
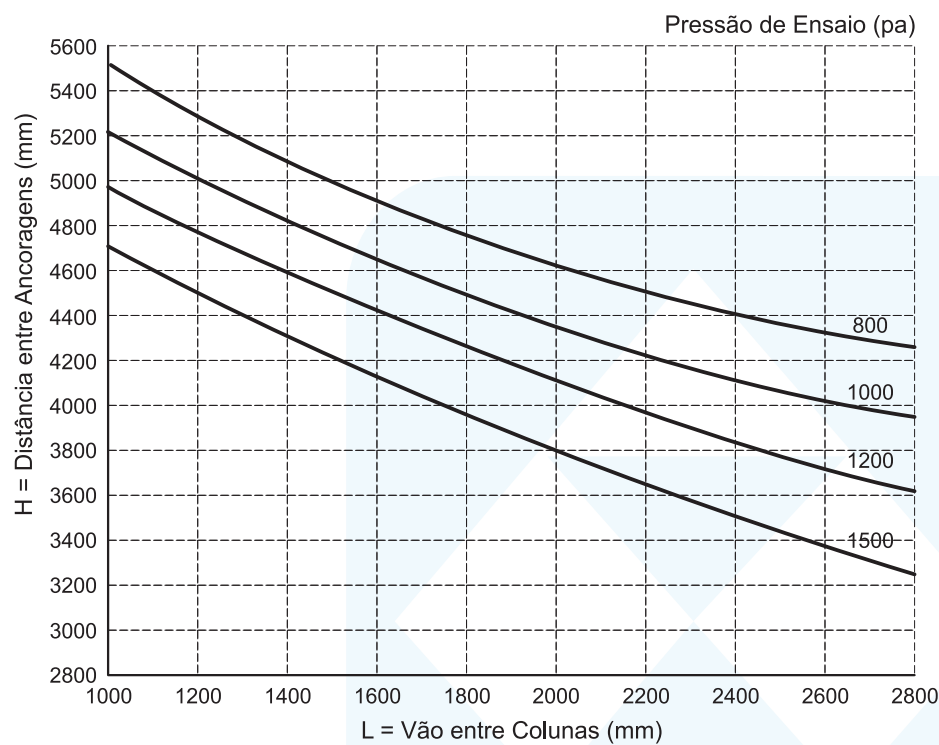
Vão = 1000 mm: Pv = 62 kg      Ph = 417 kg  
Vão = 1250 mm: Pv = 78 kg      Ph = 395 kg



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

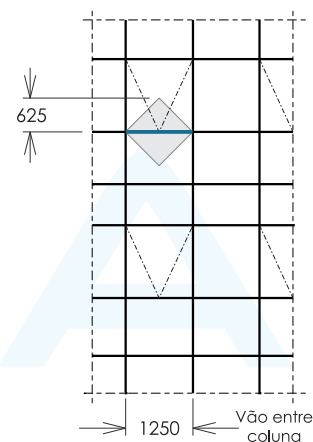
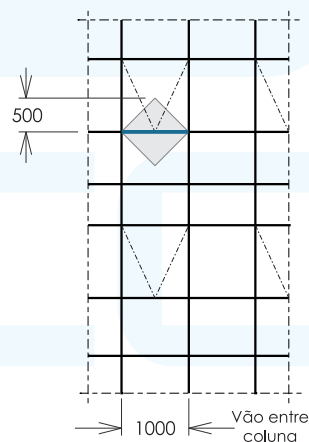
## Engaste / Apoio simples

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

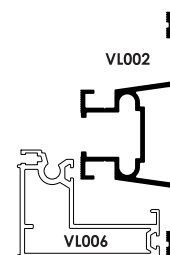


VL001 : Liga 6005A - Têmpera T5 (Sob consulta)

### 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>



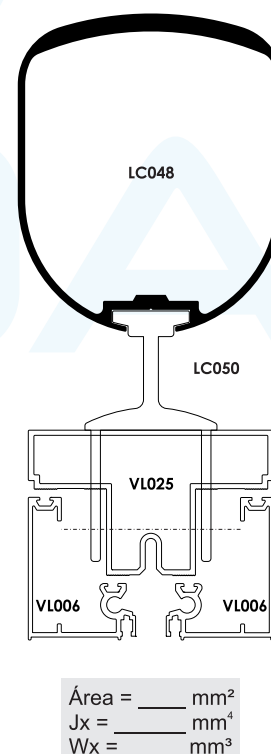
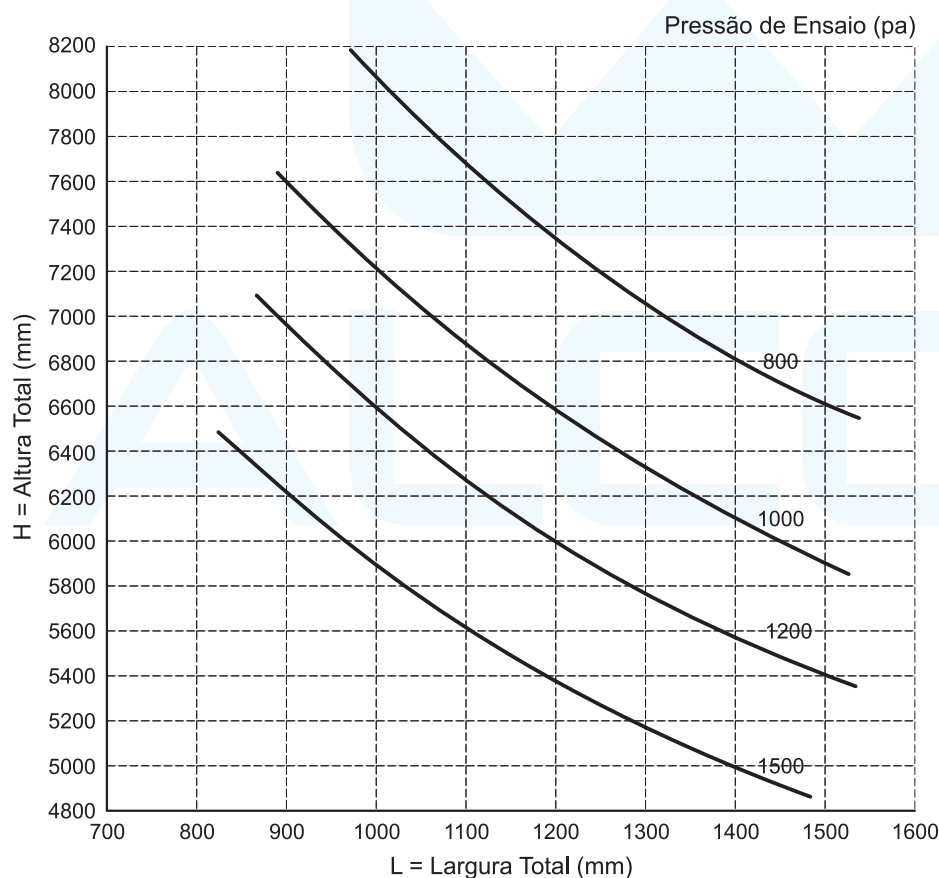
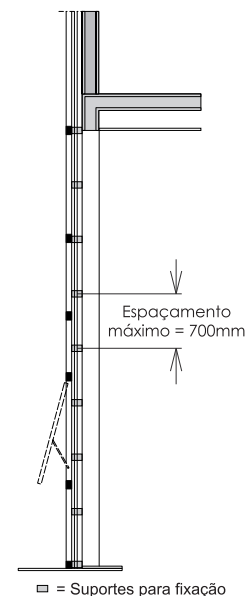
## Pressões máximas coluna LC048 / VL025

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.

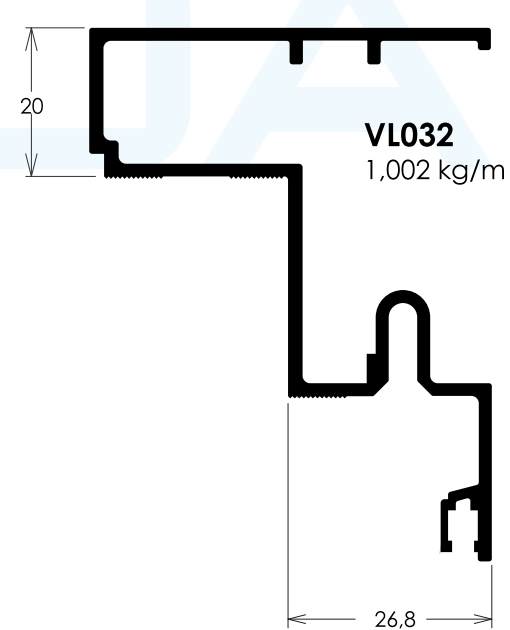
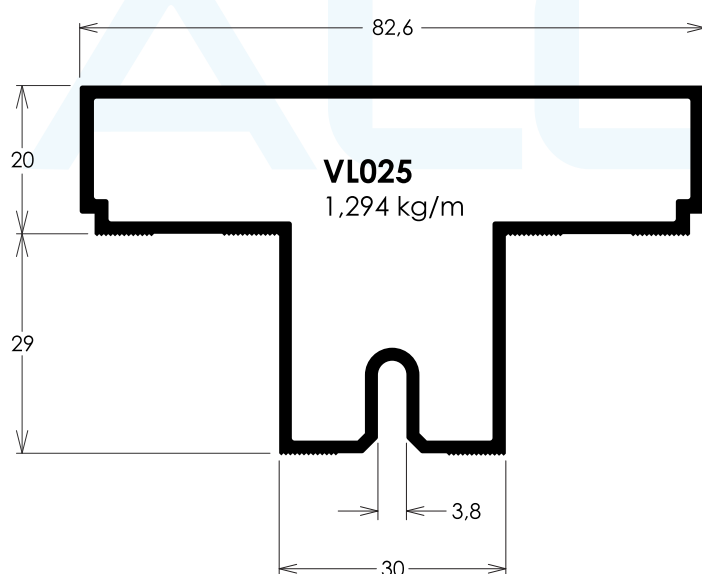
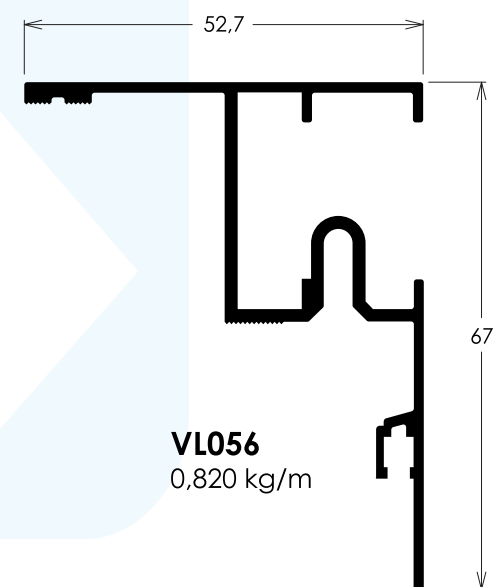
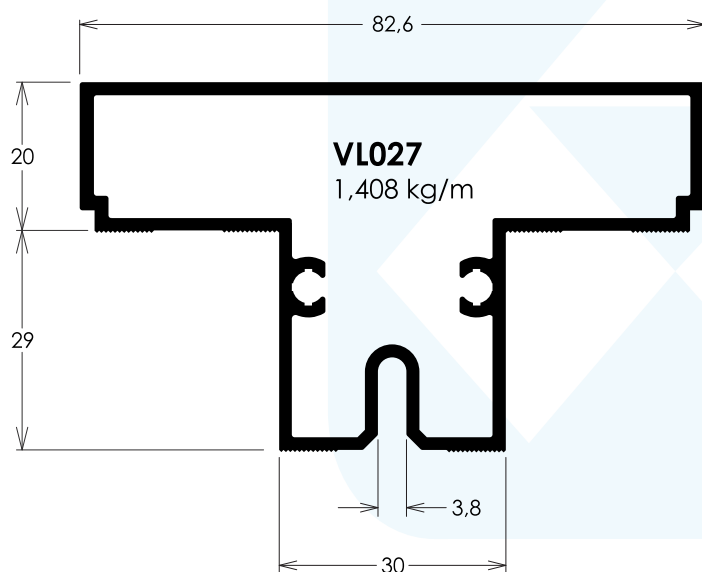
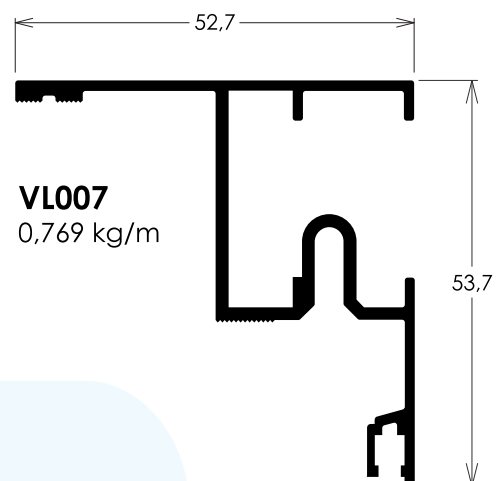
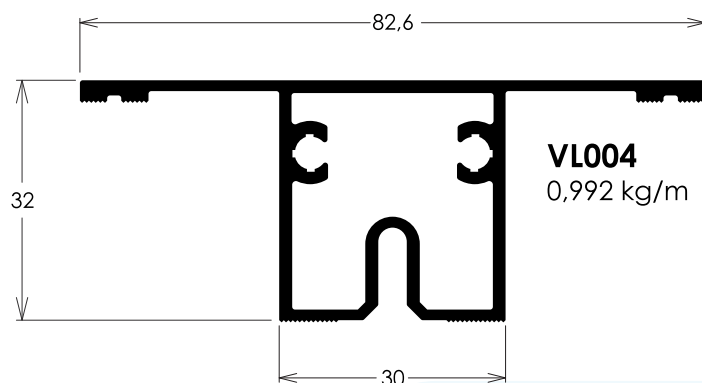


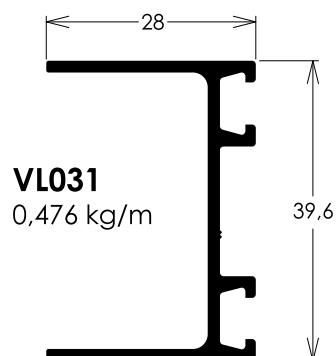
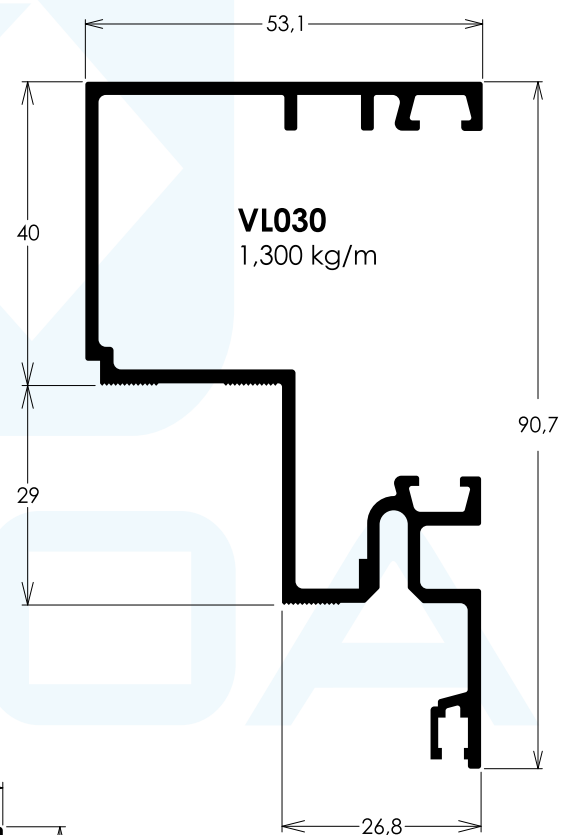
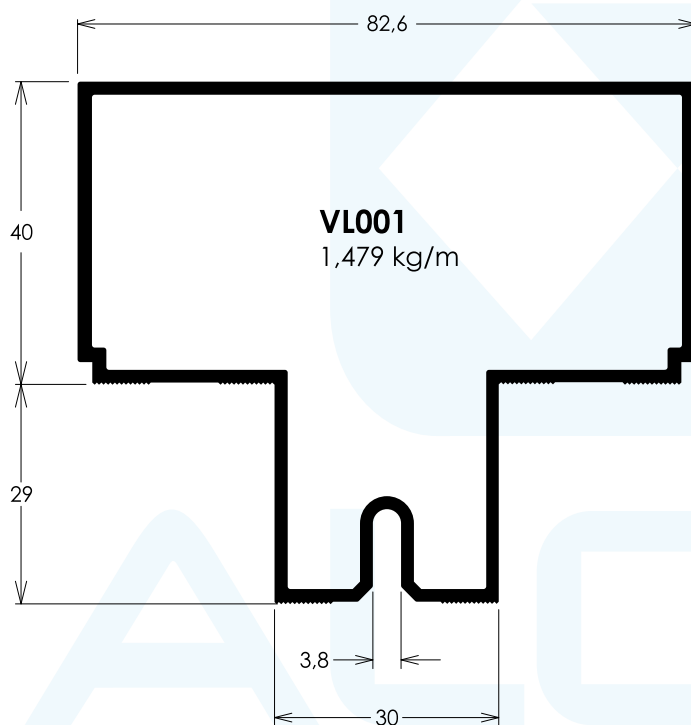
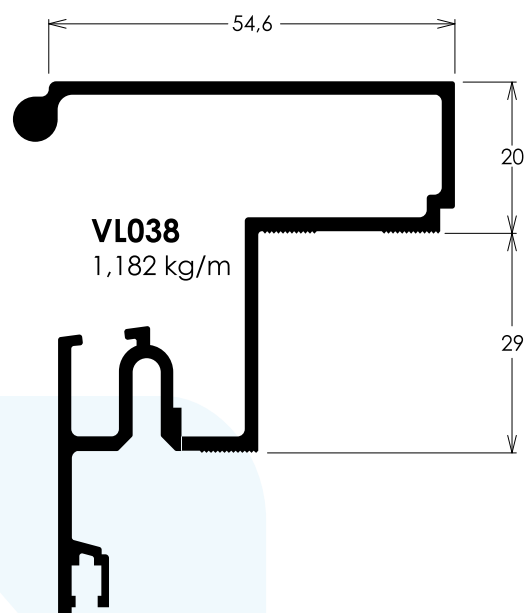
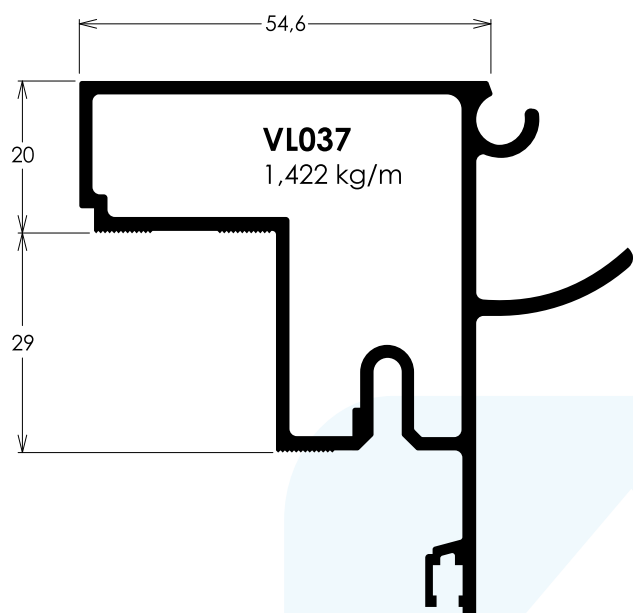


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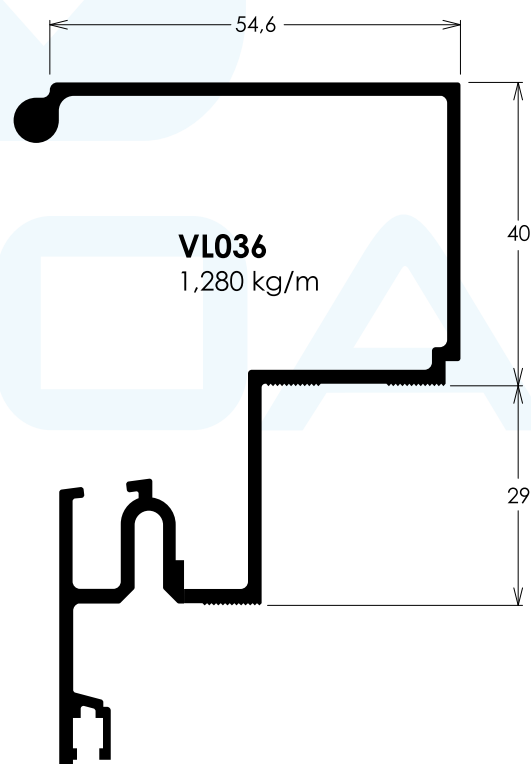
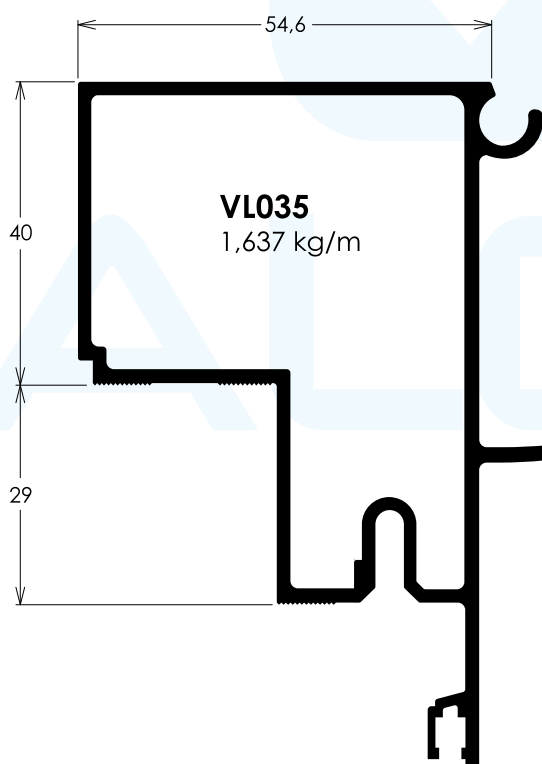
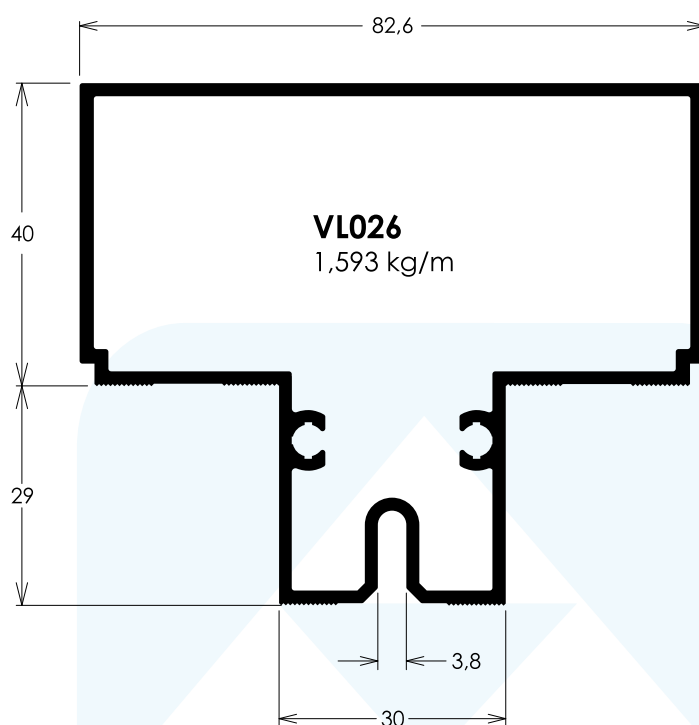
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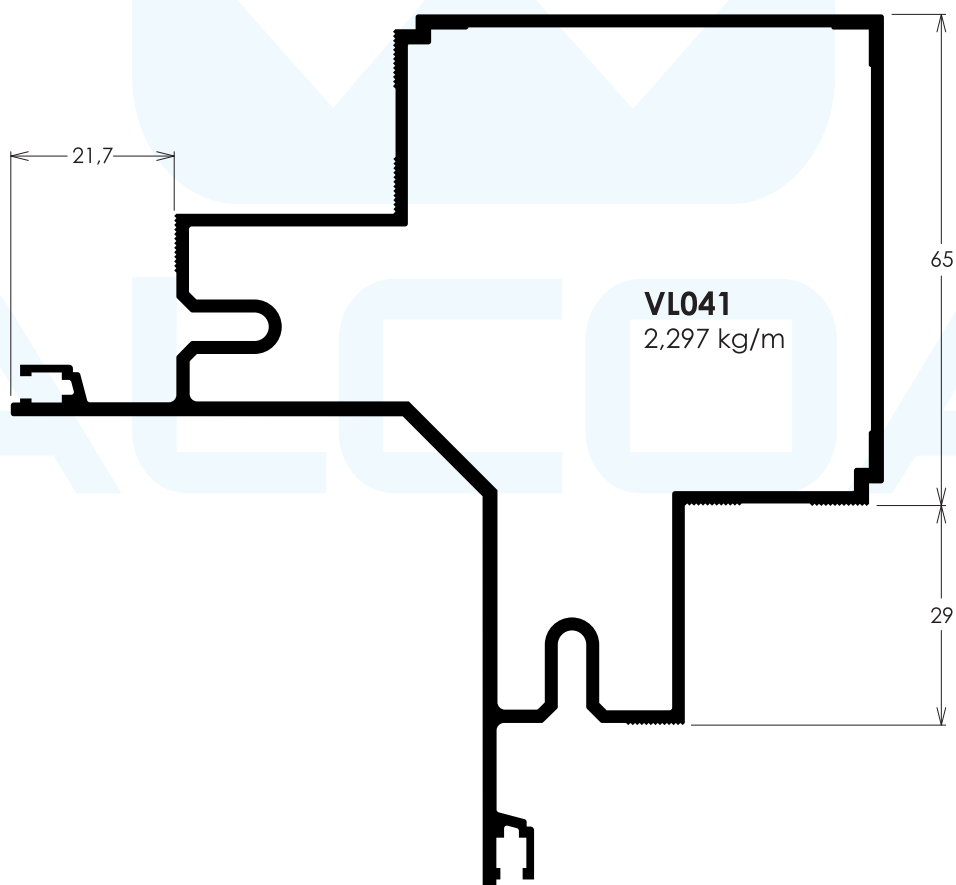
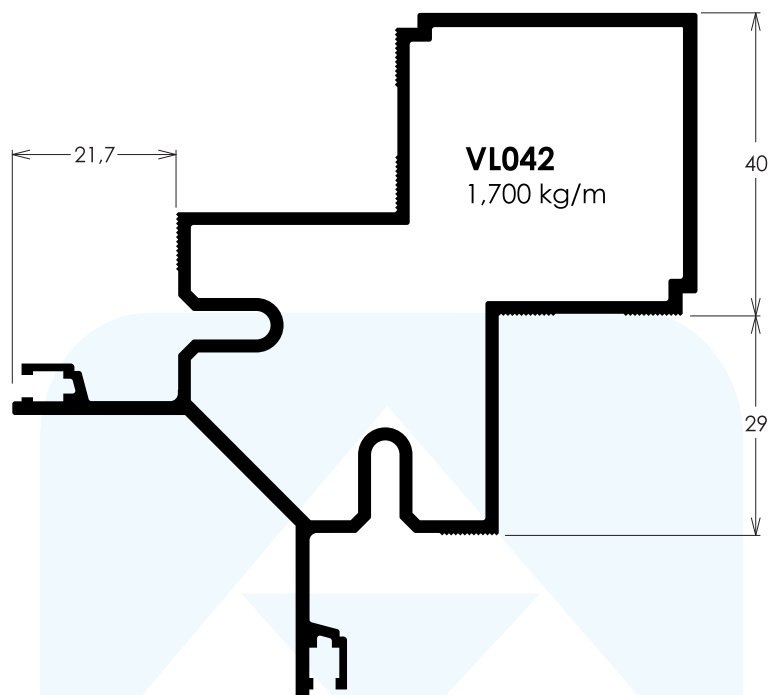
ALCOA

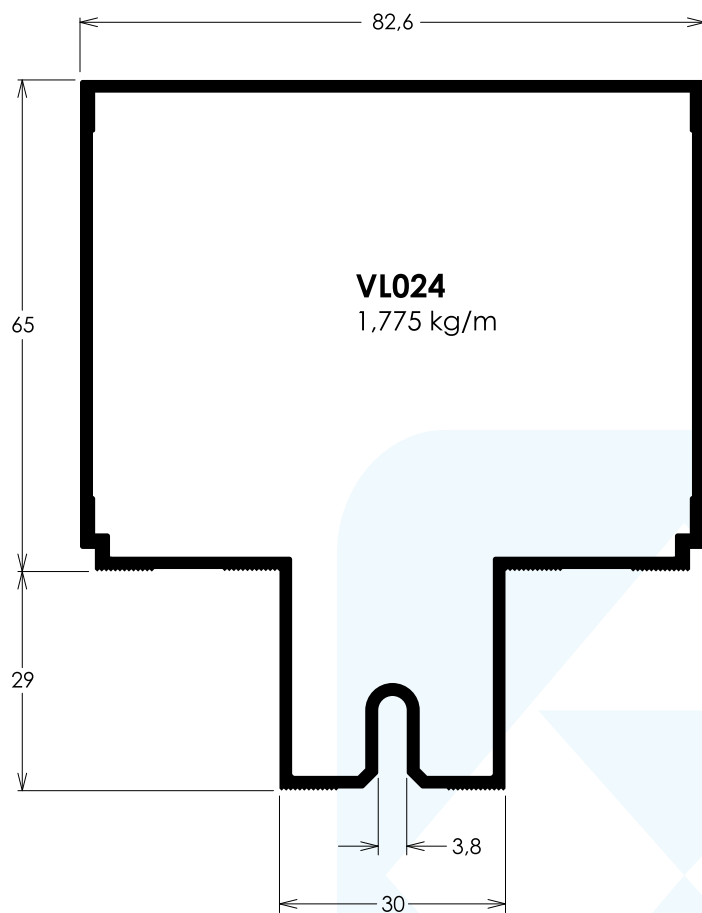




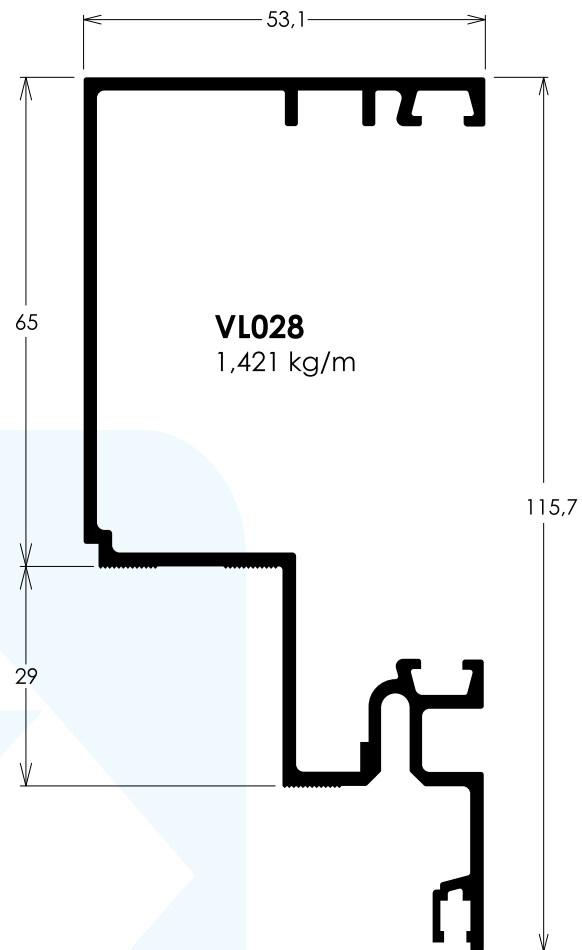




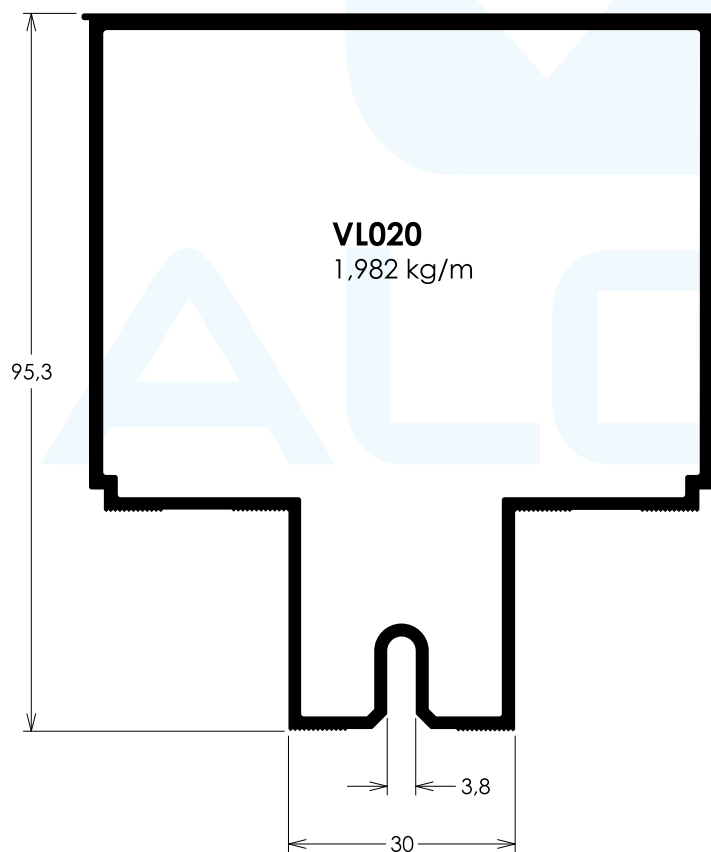




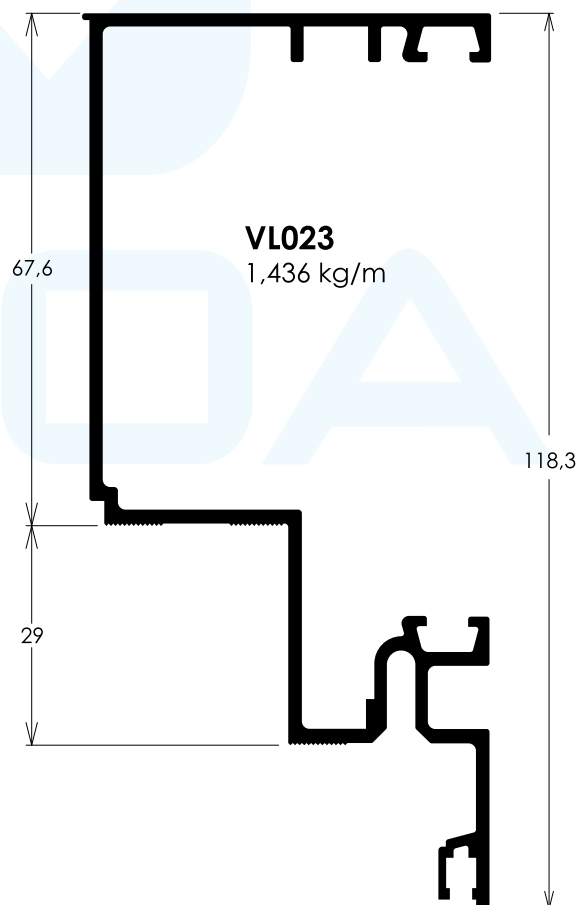
**VL024**  
1,775 kg/m



**VL028**  
1,421 kg/m

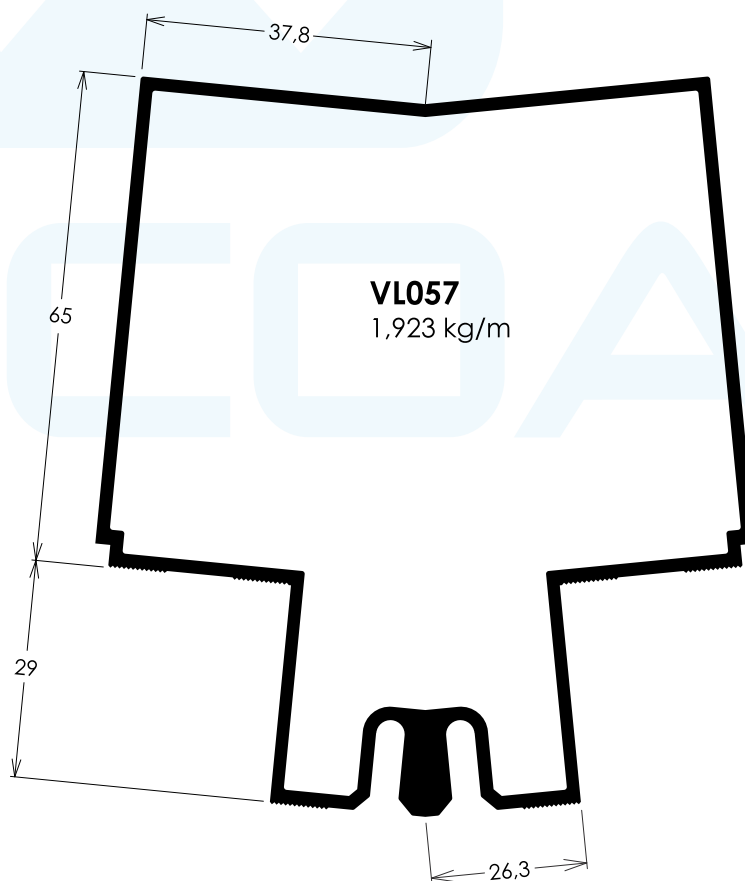
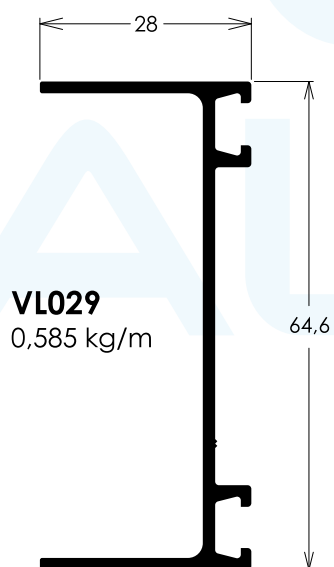
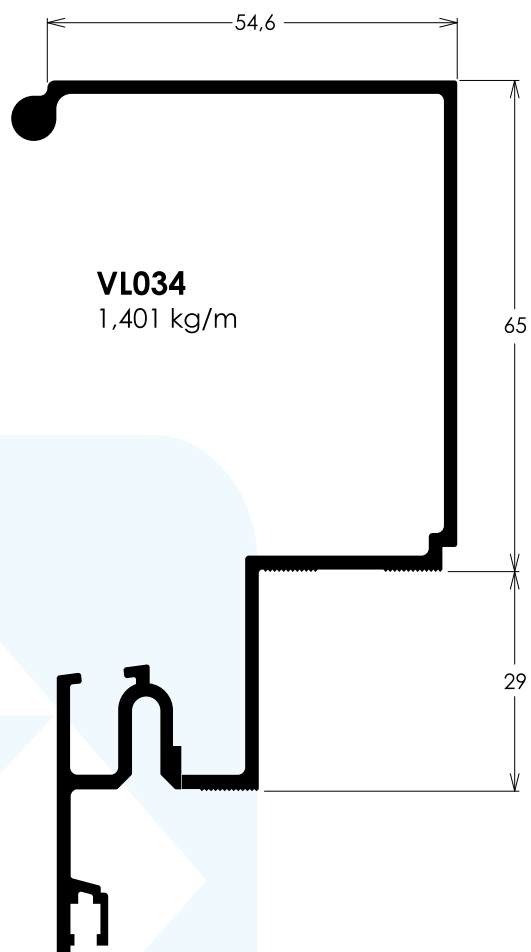
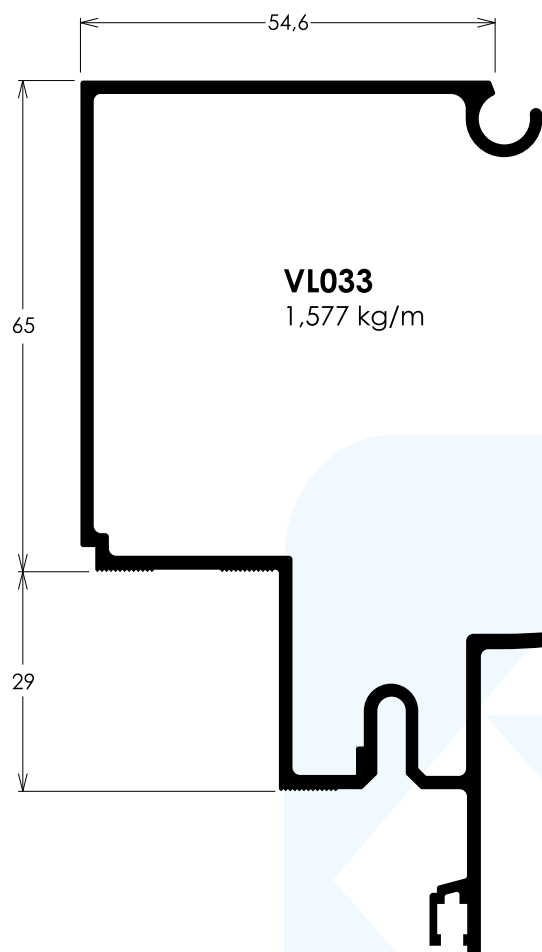


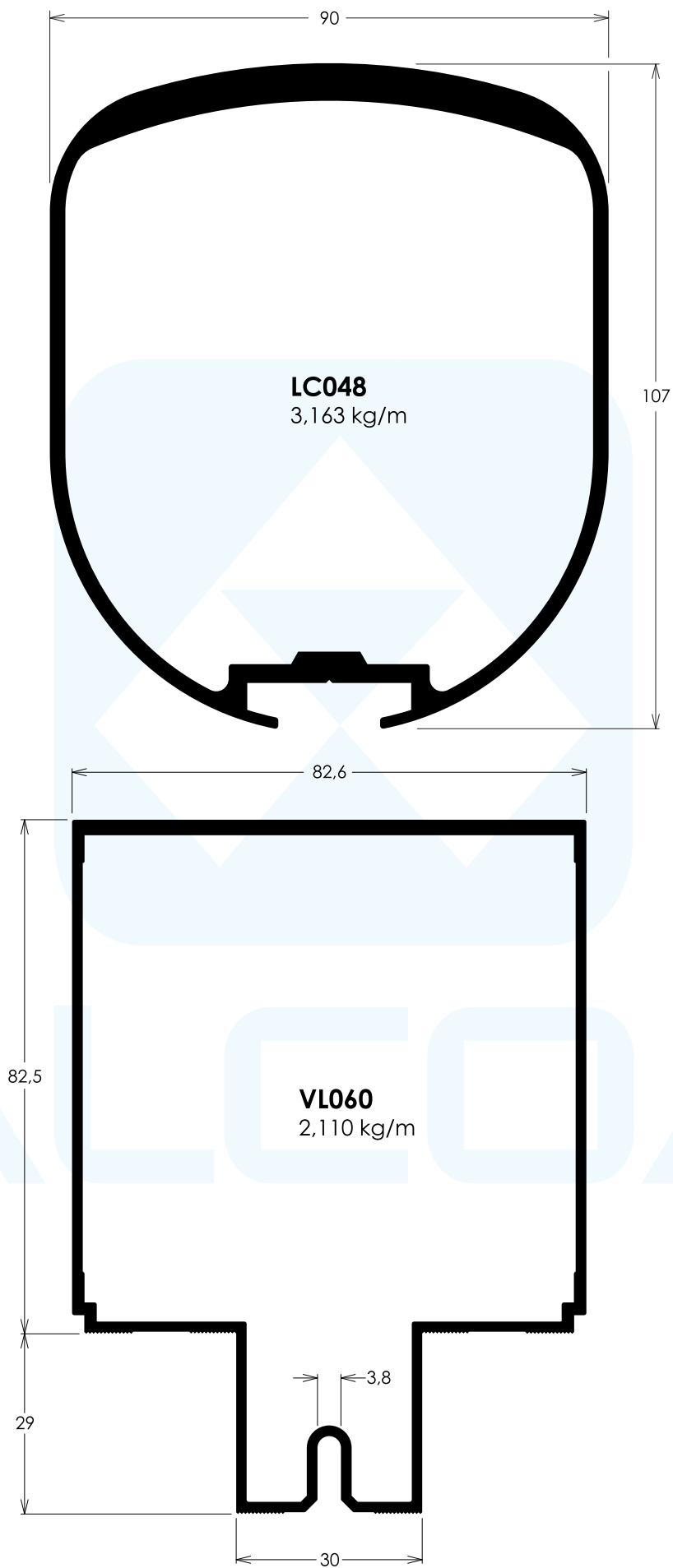
**VL020**  
1,982 kg/m

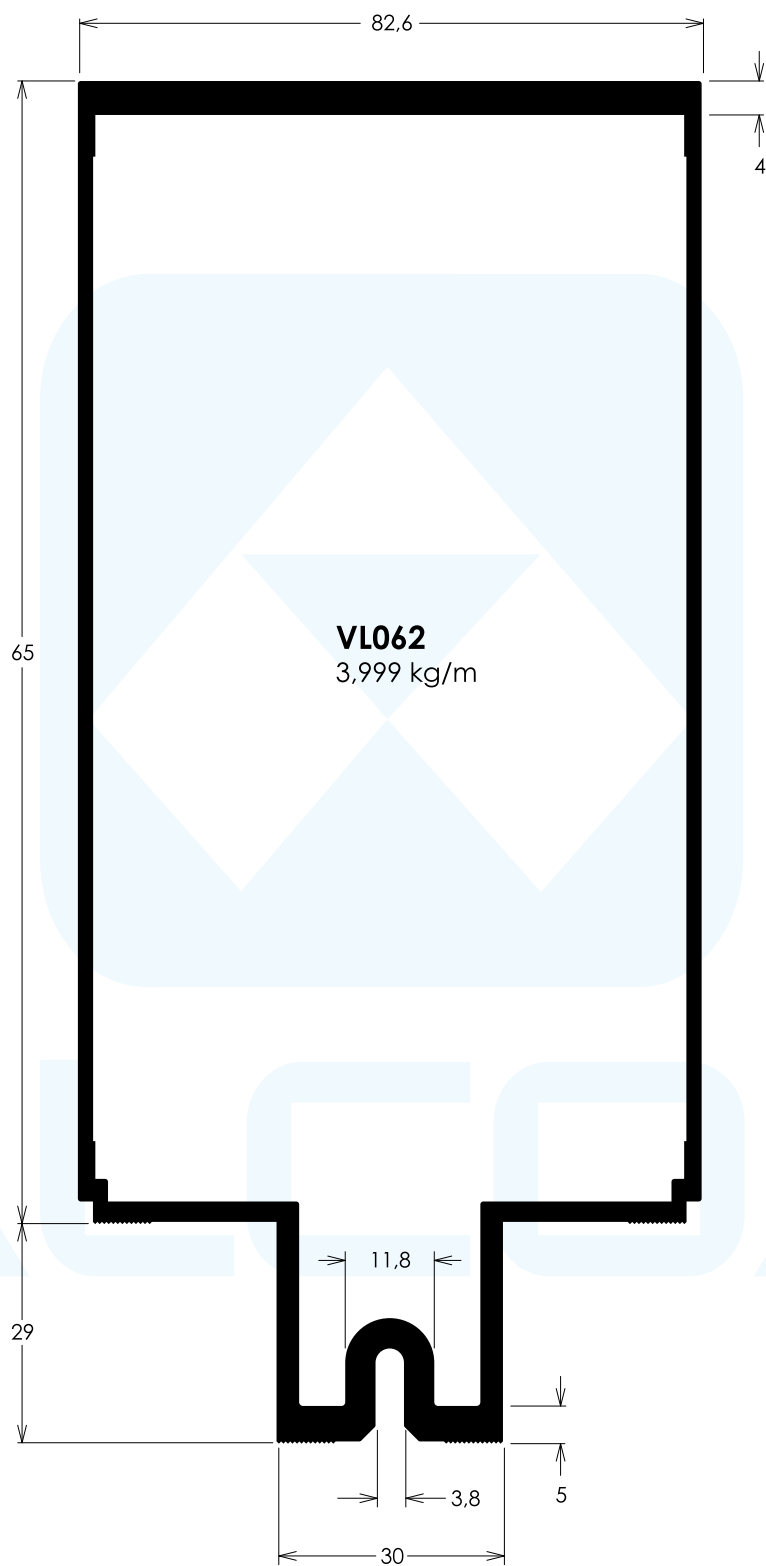


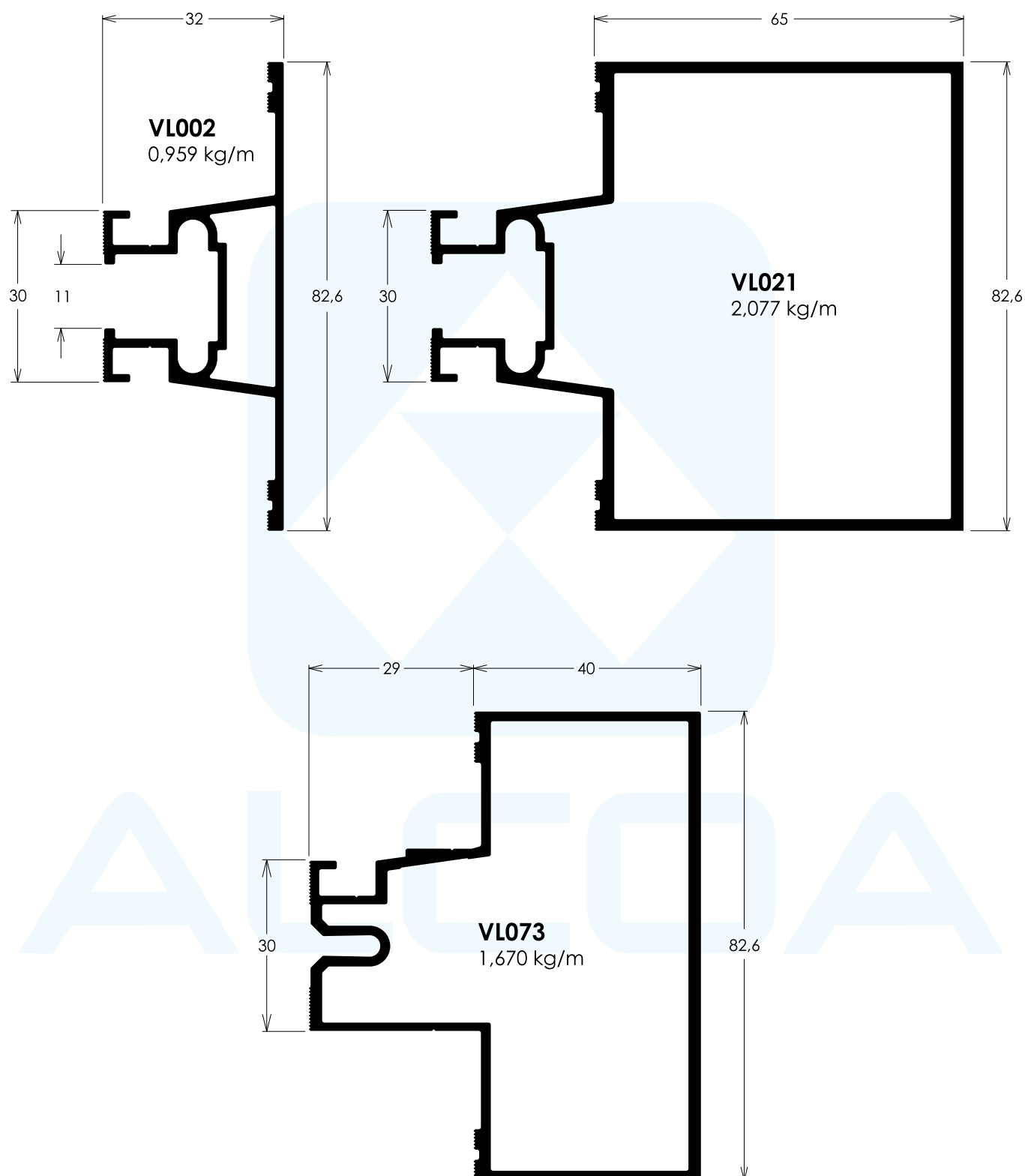
**VL023**  
1,436 kg/m

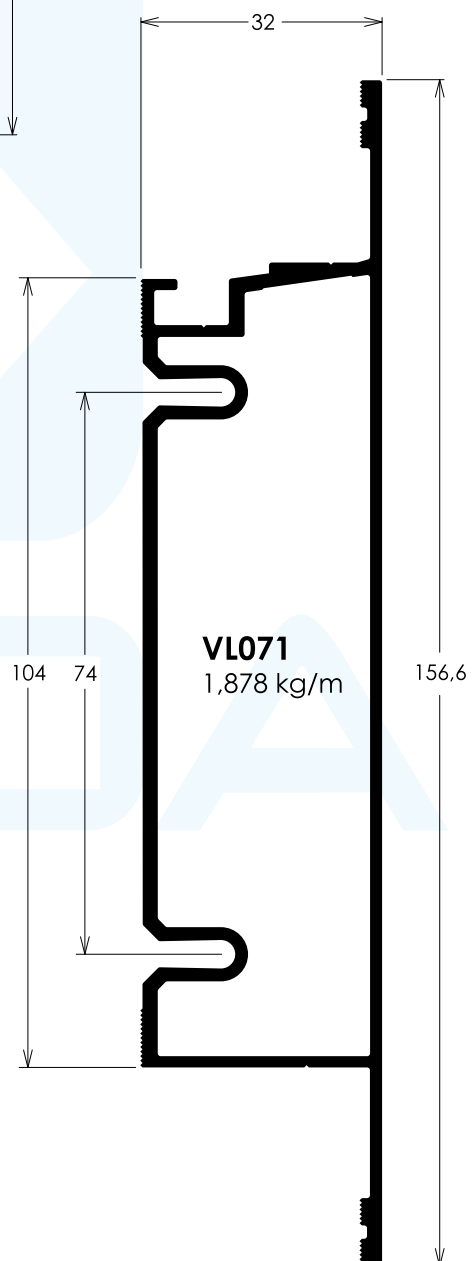
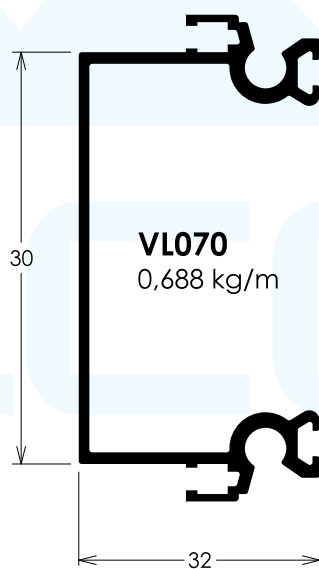
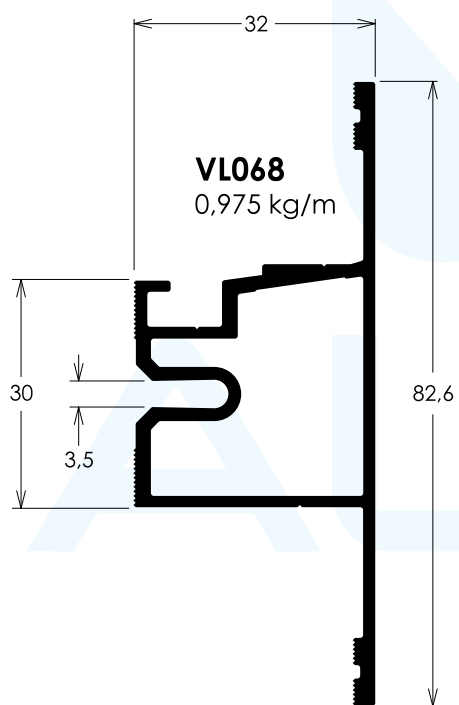
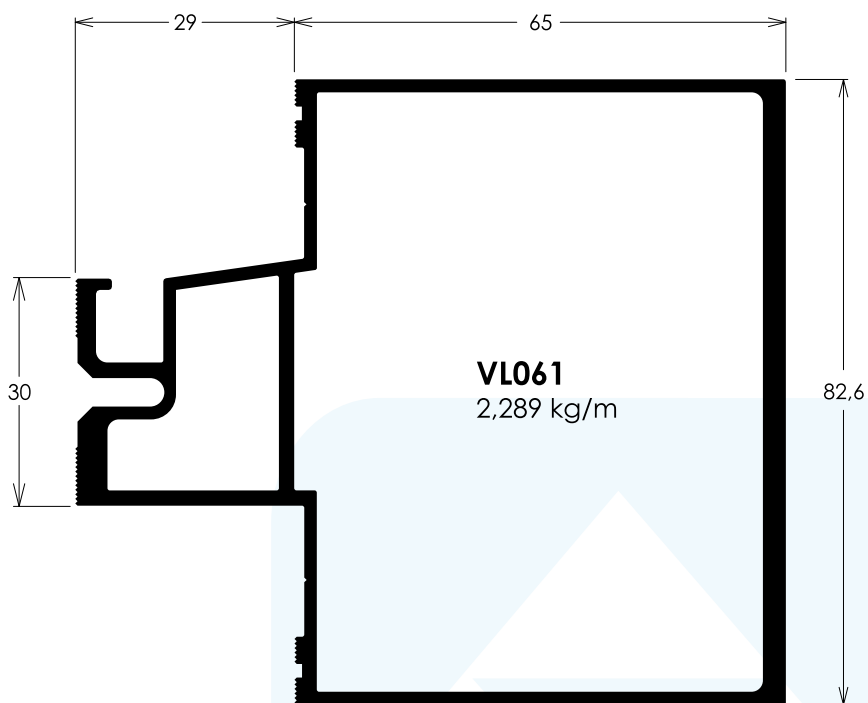
Projetos, perfis, componentes, códigos e sistemas estão sujeitos a alteração sem prévio aviso.



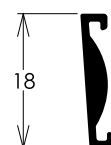
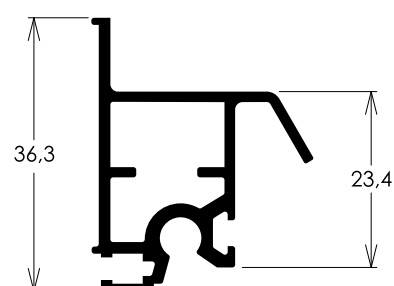
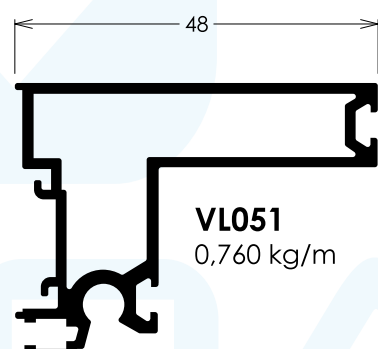
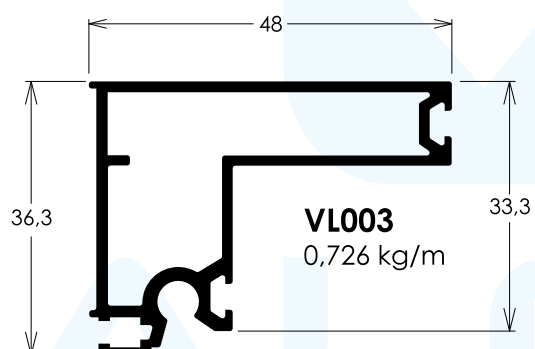
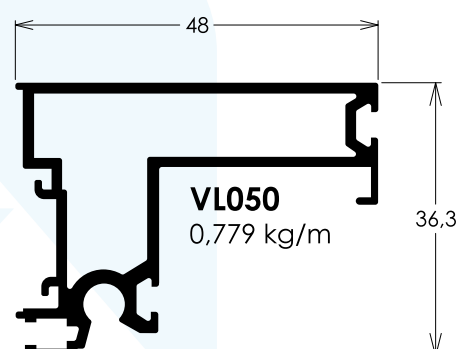
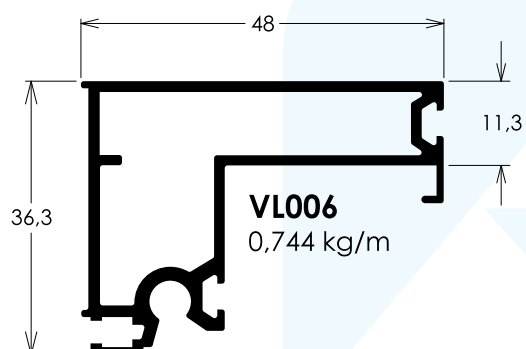
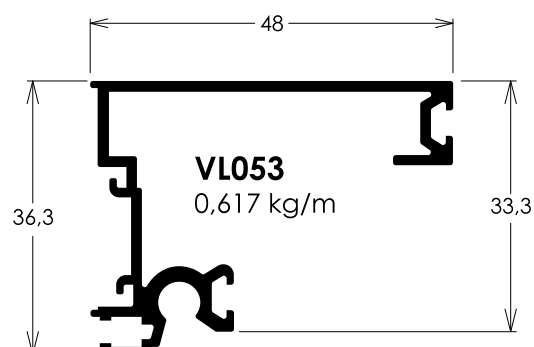
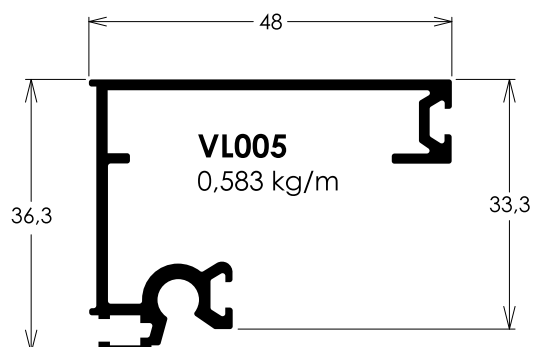




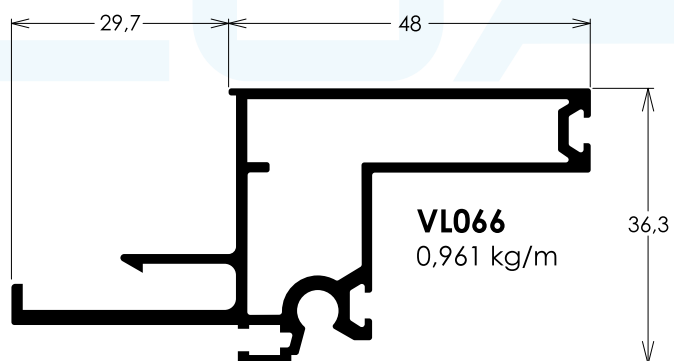
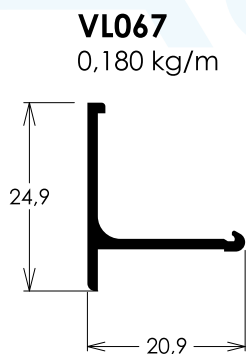
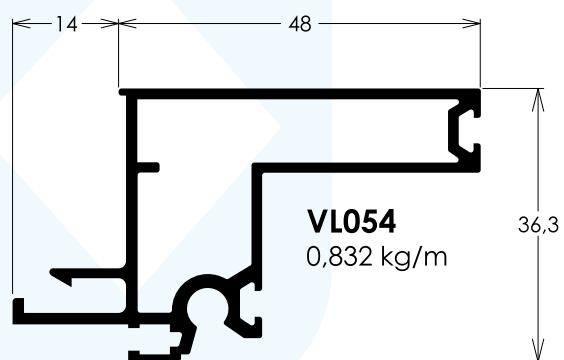
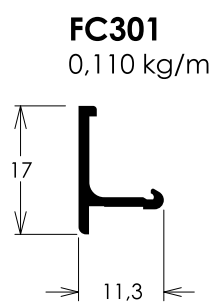
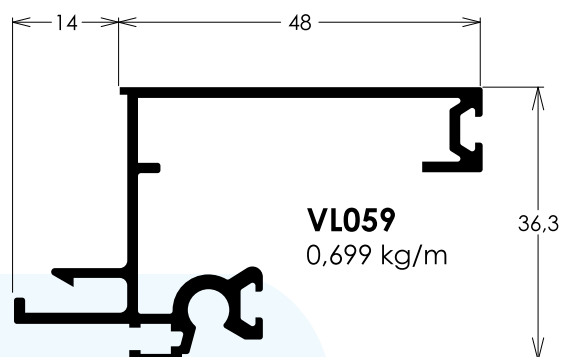
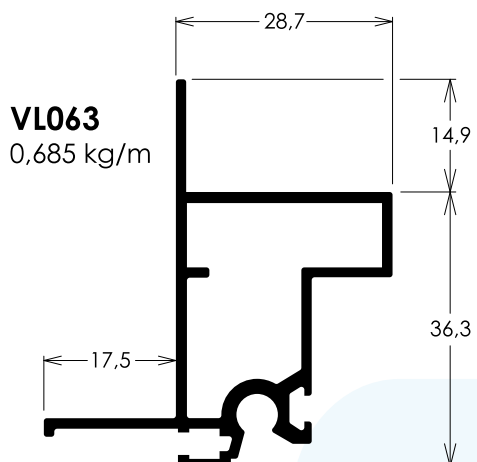


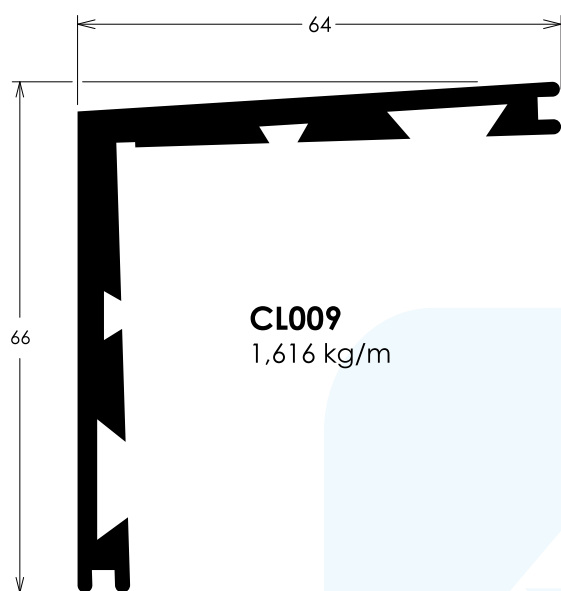




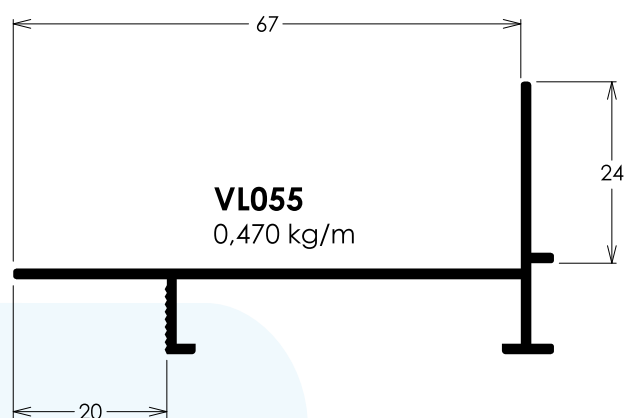


**VL052**  
0,116 kg/m





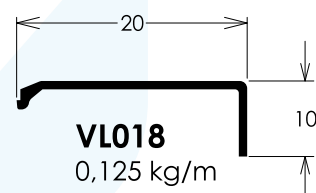
**CL009**  
1,616 kg/m



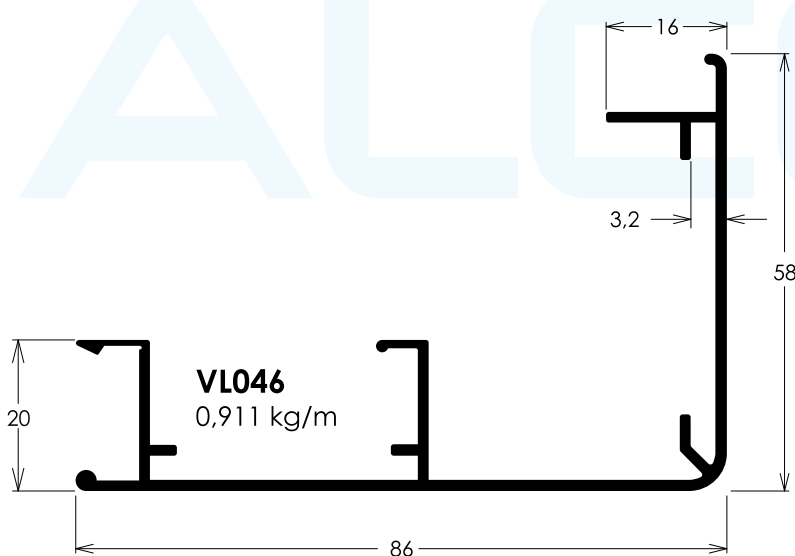
**VL055**  
0,470 kg/m



**CL010**  
0,385 kg/m



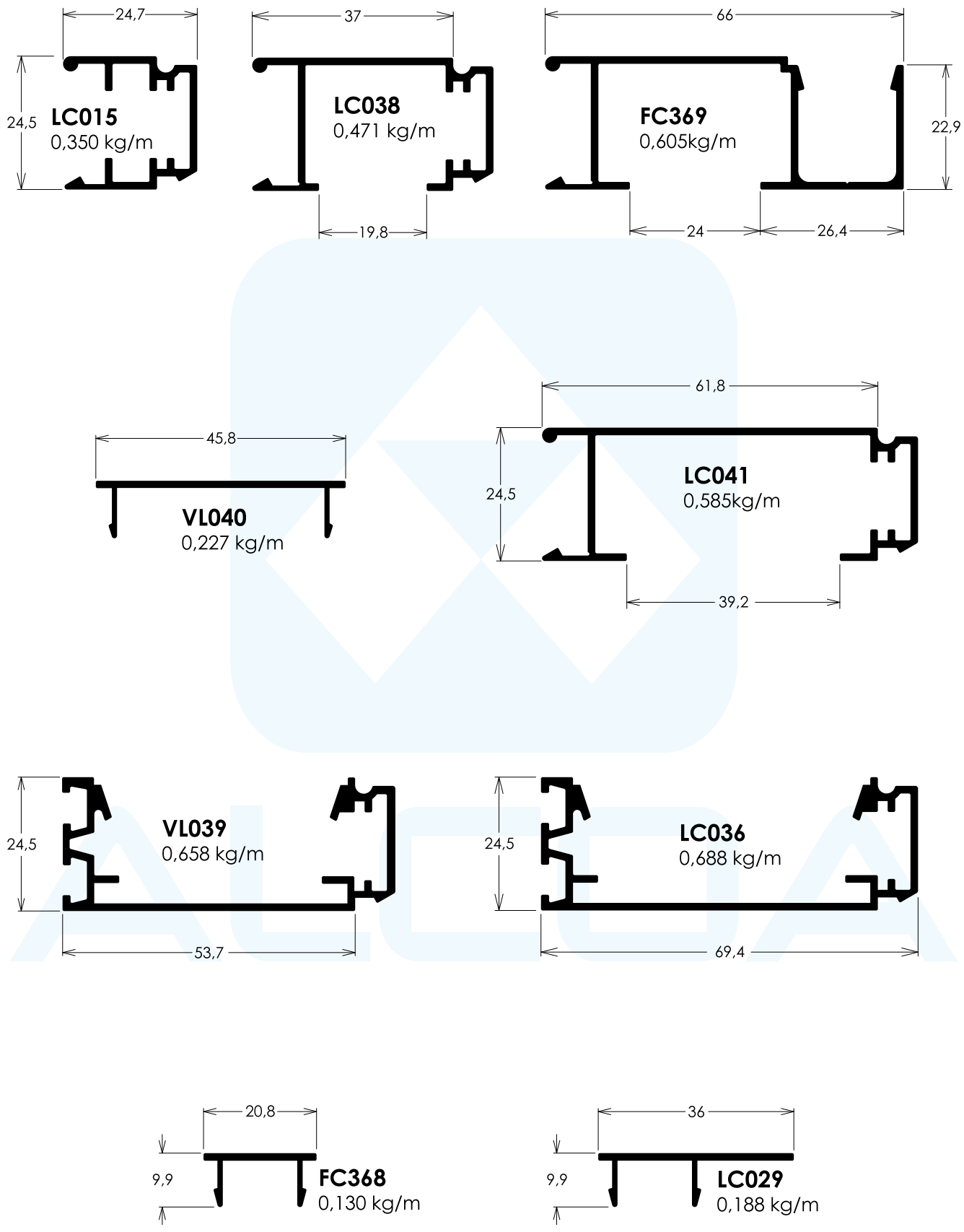
**VL018**  
0,125 kg/m



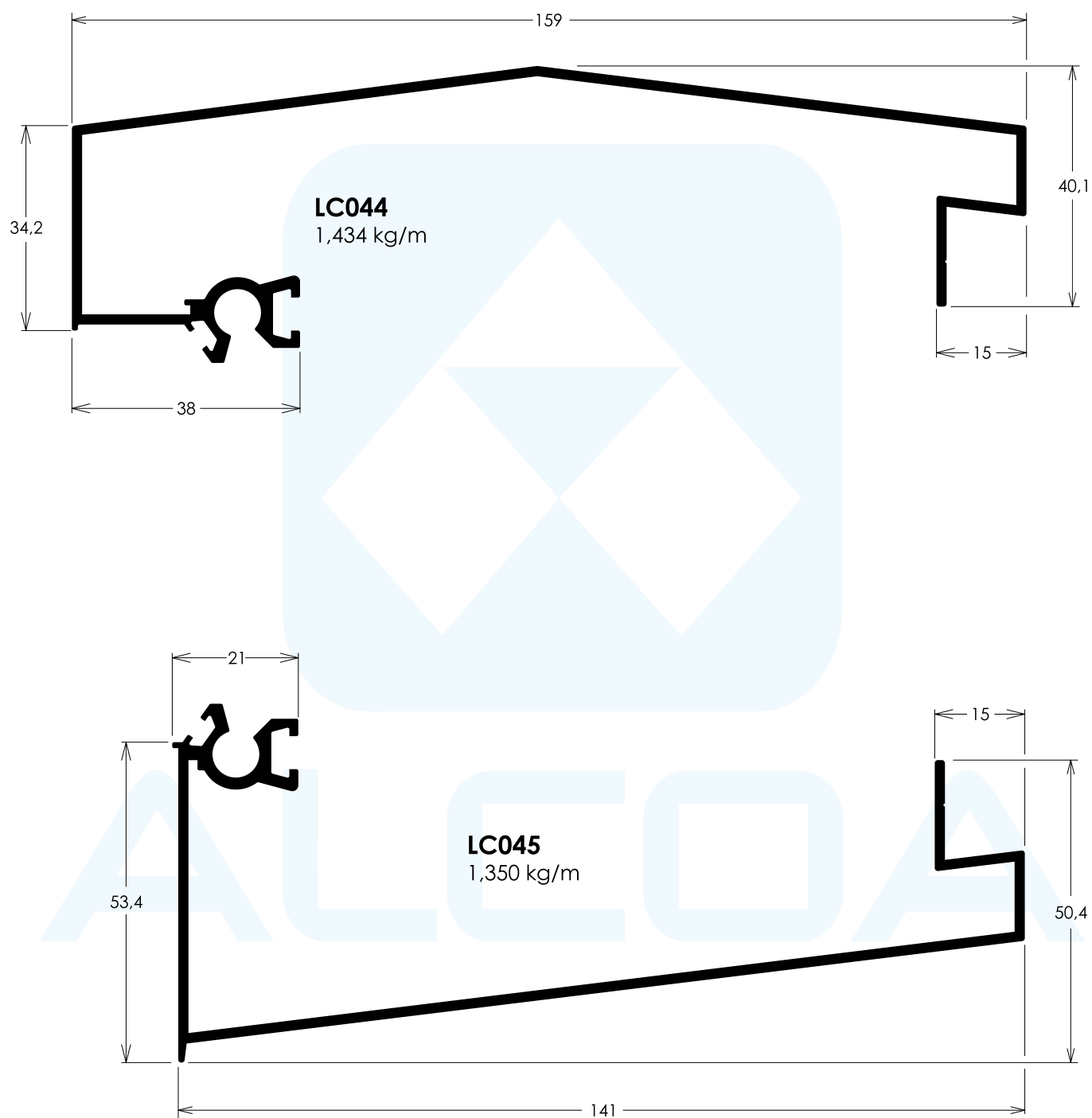
**VL046**  
0,911 kg/m



**VL058**  
0,215 kg/m



Projetos, perfis, componentes, códigos e sistemas estão sujeitos a alteração sem prévio aviso.





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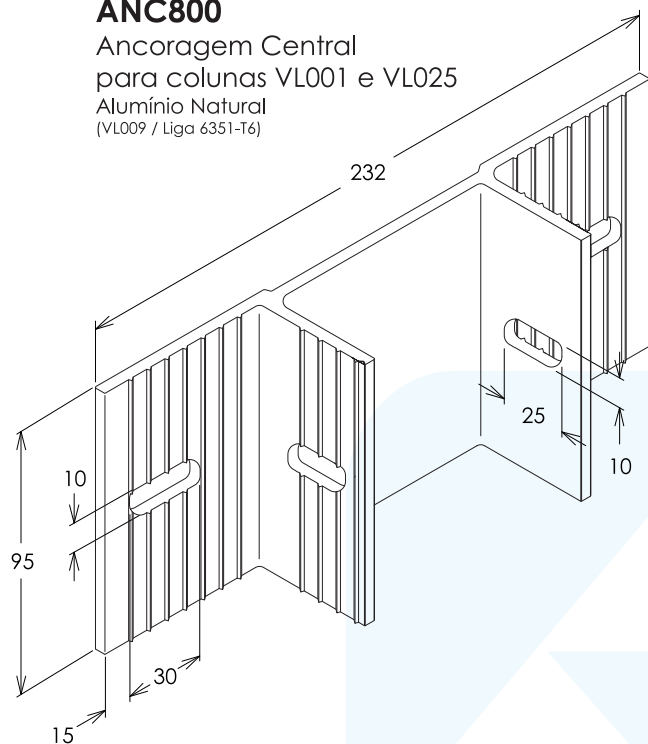
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PAR063	Parafuso sextavado AA Ø 4,8mmx19mm	40
PAR428	Parafuso PP lisa AA Ø 4,8mmx32mm	40
PAR437	Parafuso AA Ø 3,5mmx9,5mm CP	40
PAR690	Parafuso sextavado WW Ø 1/4"x5/8"	40
PAR691	Parafuso AA Ø 4,8mmx13mm CP	40
PAR695	Parafuso AA Ø 4,8mmx19mm CP	40
PAR705	Parafuso AA Ø 4,8mmx16mm CP	40
PAR716	Parafuso sextavado WW Ø 3/8"x5"	40
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ALCOA



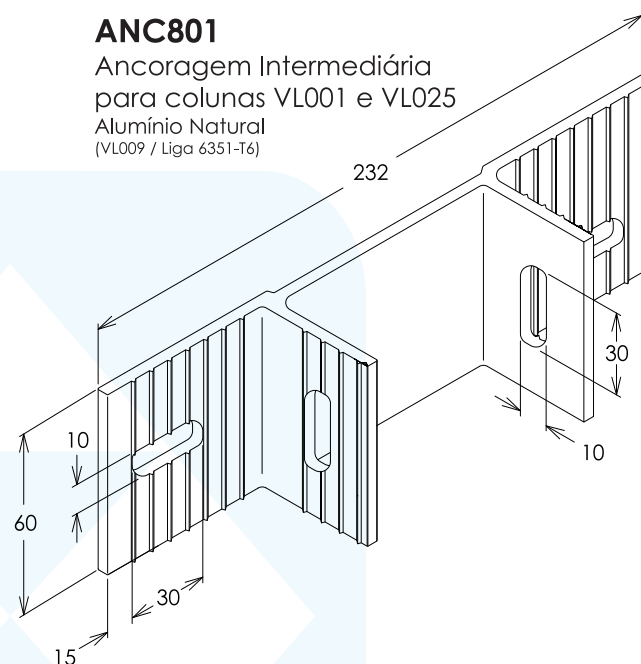
## ANC800

Ancoragem Central  
para colunas VL001 e VL025  
Alumínio Natural  
(VL009 / Liga 6351-T6)



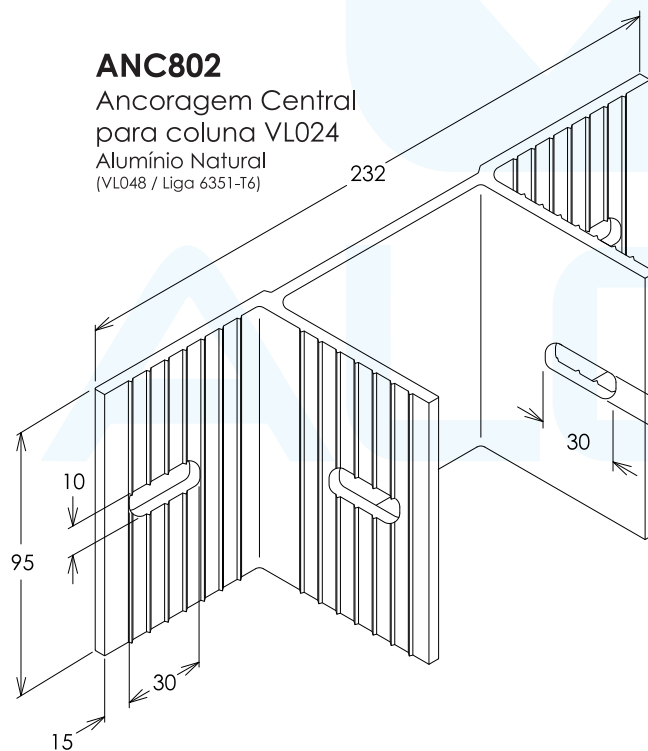
## ANC801

Ancoragem Intermediária  
para colunas VL001 e VL025  
Alumínio Natural  
(VL009 / Liga 6351-T6)



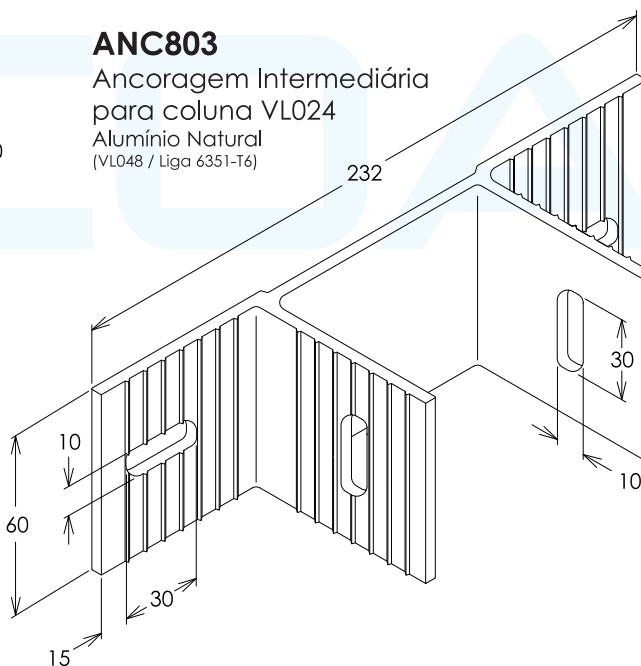
## ANC802

Ancoragem Central  
para coluna VL024  
Alumínio Natural  
(VL048 / Liga 6351-T6)



## ANC803

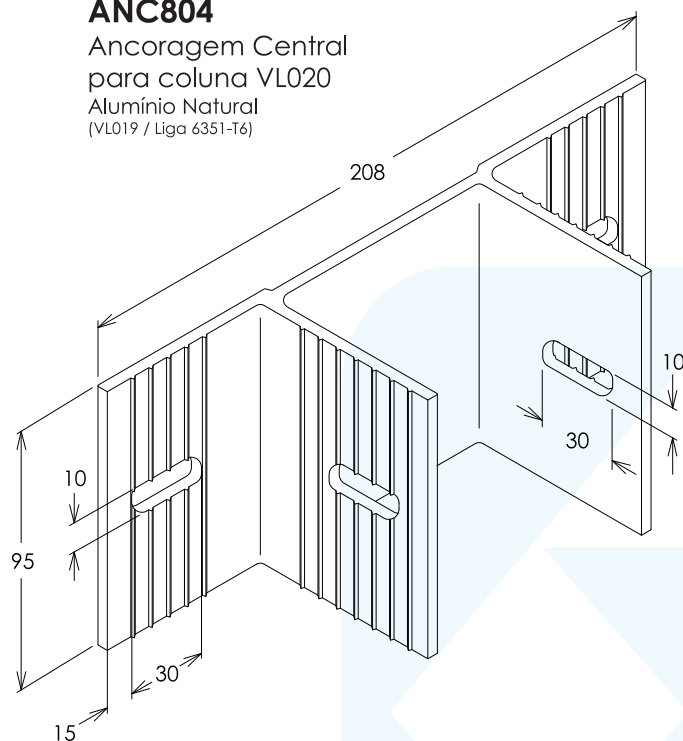
Ancoragem Intermediária  
para coluna VL024  
Alumínio Natural  
(VL048 / Liga 6351-T6)





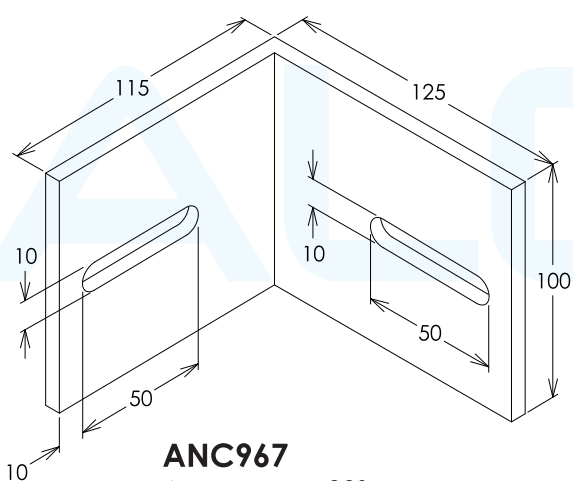
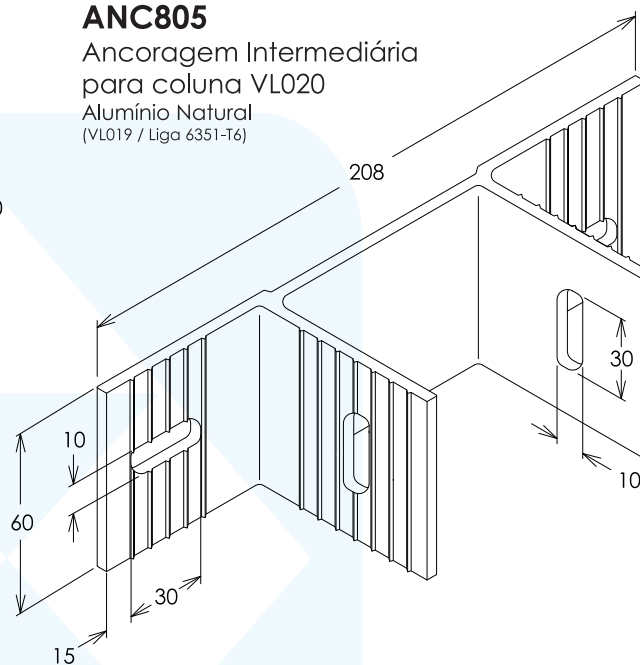
**ANC804**

Ancoragem Central  
para coluna VL020  
Alumínio Natural  
(VL019 / Liga 6351-T6)



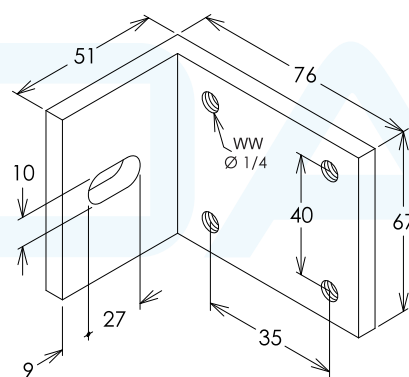
**ANC805**

Ancoragem Intermediária  
para coluna VL020  
Alumínio Natural  
(VL019 / Liga 6351-T6)



**ANC967**

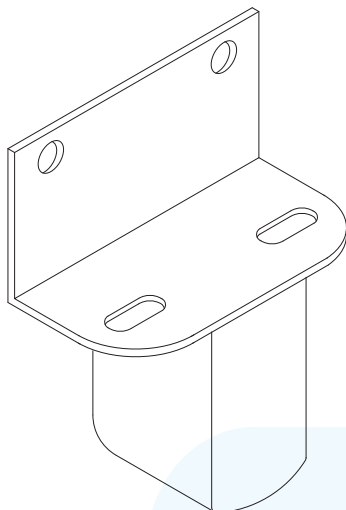
Ancoragem 90°  
para coluna de canto  
Alumínio Natural  
(CT638)



**ANC964**

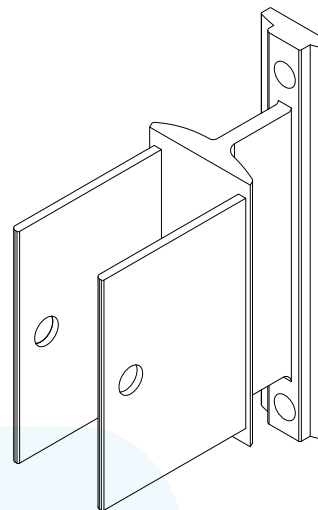
Ancoragem  
Coluna lateral  
Alumínio Natural  
(CT605)





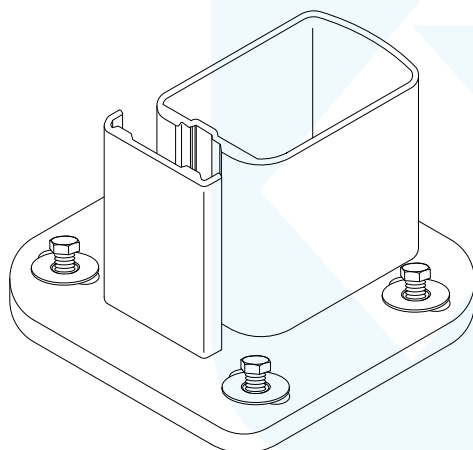
### ANC977

Ancoragem Telescópica Superior  
Alumínio Fundido Natural



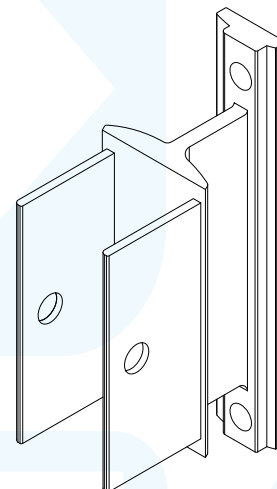
### ANC979

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



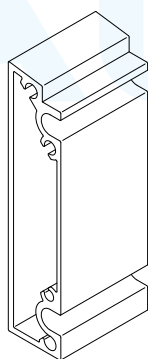
### ANC806

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



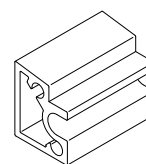
### ANC980

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



### PRE988

Presilha de fixação  
Travessa  
38 mm  
Alumínio Natural  
(VL072)

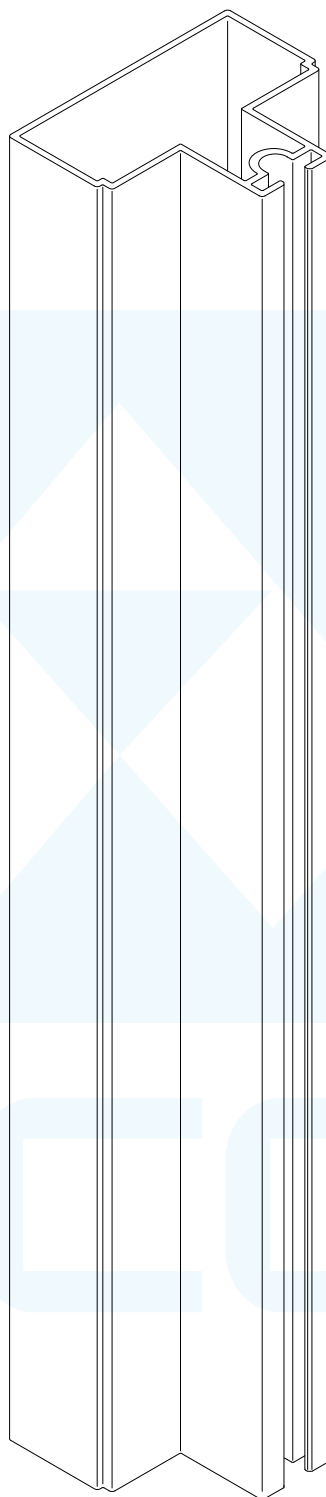


### PRE989

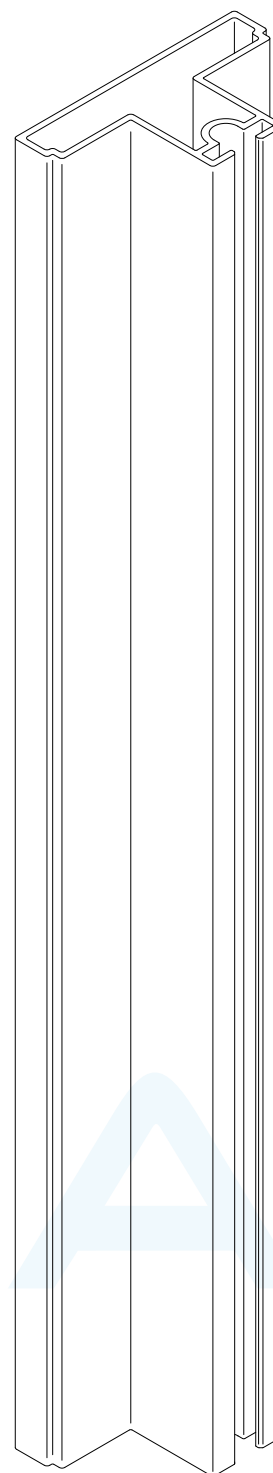
Presilha de fixação  
Travessa  
38 mm  
Alumínio Natural  
(VL069)



**LUV990**  
Luva para coluna VL024  
400 mm  
Alumínio Natural  
(VL043)



**LUV988**  
Luva para coluna VL001  
400 mm  
Alumínio Natural  
(VL010)

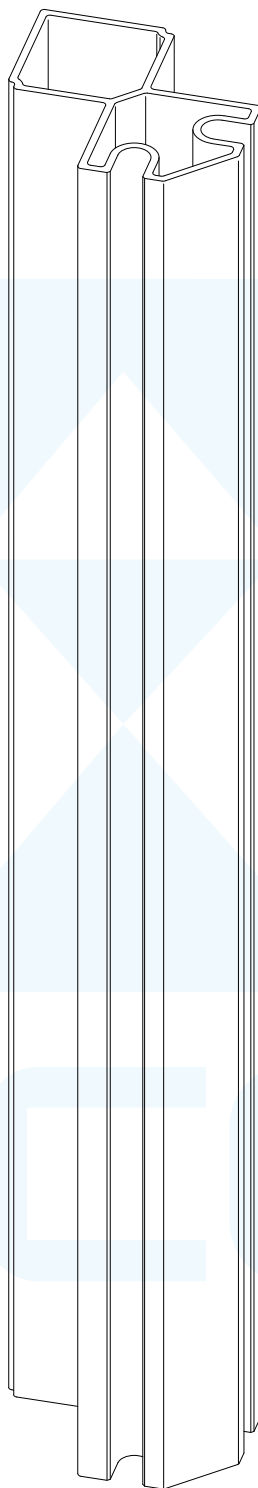


**LUV991**  
Luva para coluna VL025  
400 mm  
Alumínio Natural  
(VL049)



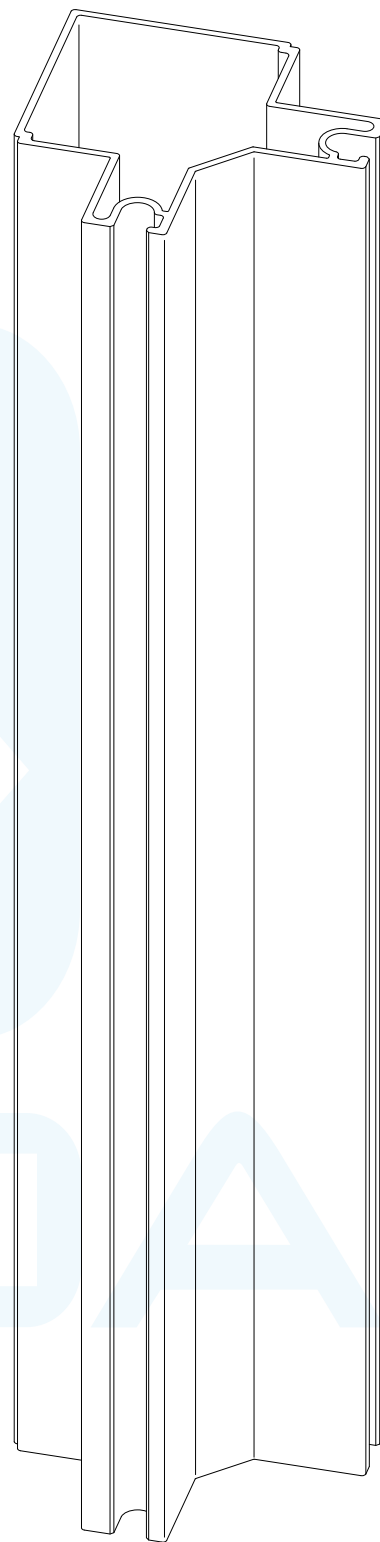
**LUV993**

Luva para coluna VL020  
400 mm  
Alumínio Natural  
(VL022)



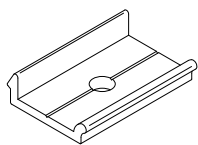
**LUV992**

Luva para coluna VL042  
400 mm  
Alumínio Natural  
(VL045)

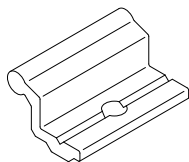


**LUV989**

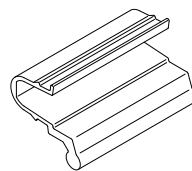
Luva para coluna VL041  
400 mm  
Alumínio Natural  
(VL044)



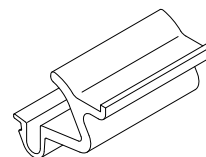
**PRE976**  
Presilha  
Arremate interno  
30 mm  
Alumínio Natural  
(FC400)



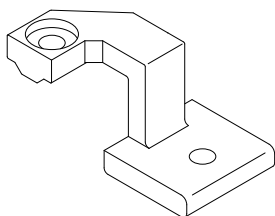
**PRE981**  
Presilha vertical  
Quadros  
30 mm  
Alumínio Preto  
(VL011)



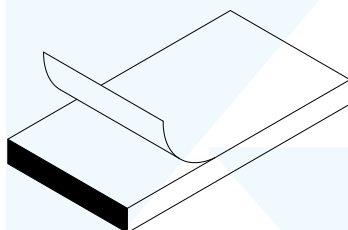
**PRE983R**  
Presilha horizontal  
Quadros  
30 mm  
Alumínio Preto  
(VL065)



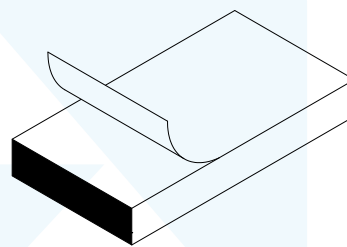
**PRE984**  
Presilha de apoio  
Quadros  
30 mm  
Alumínio Natural  
(VL017)



**CON431E**  
Fixador de Travessas  
Alumínio Natural



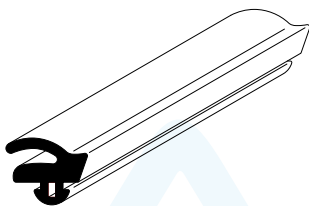
**GUA371**  
Guarnição adesiva  
21mm x 3mm  
vidro 8mm  
PVC Preto - células fechadas



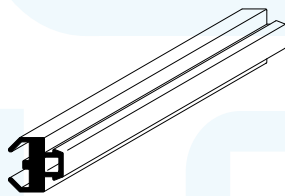
**GUA372**  
Guarnição adesiva  
21mm x 5mm  
vidro 6mm  
PVC Preto - células fechadas



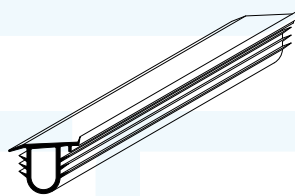
**Reddiglaze**  
Super Glue  
Adesivo  
para Guarnições



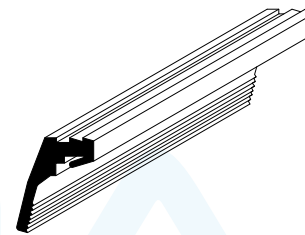
**GUA366**  
Guarnição  
E.P.D.M. Preto



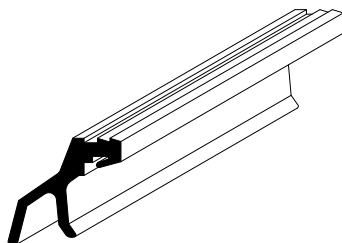
**GUA246**  
Guarnição  
E.P.D.M. Preto



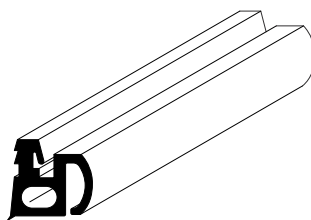
**GUA375**  
Guarnição  
E.P.D.M. Preto



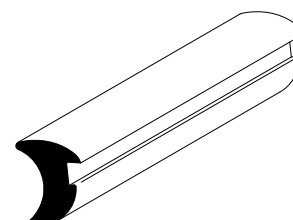
**GUA367**  
Guarnição  
E.P.D.M. Preto



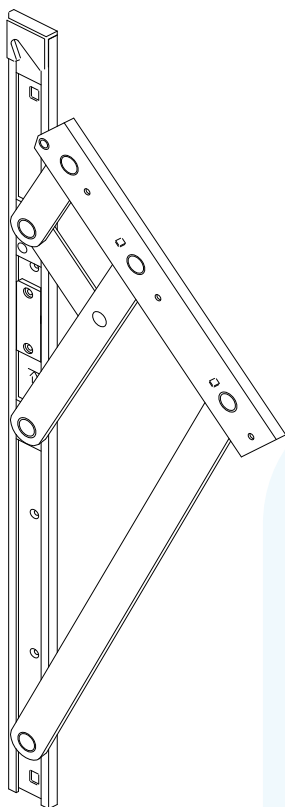
**GUA368**  
Guarnição  
E.P.D.M. Preto



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

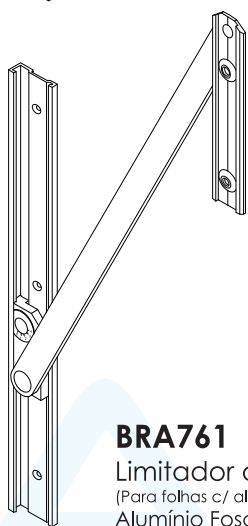


**GUA168**  
Guarnição  
E.P.D.M. Preto

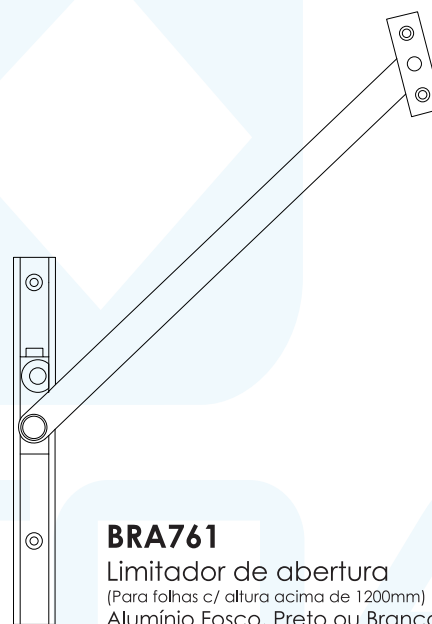


	Dimensão (mm)	Altura da Folha (mm)	Largura da Folha (mm)	Carga Máxima
<b>BRA762</b>	<b>342</b>	Min: 390 Max: 600	Max: 1500	22kg
<b>BRA763</b>	<b>600</b>	Min: 640 Max: 1000	Max: 1500	35kg
<b>BRA764</b>	<b>951</b>	Min: 1000 Max: 1200	Max: 1500	45kg

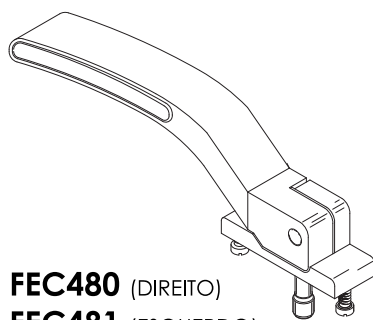
Braço Maxim ar  
Alumínio Fosco, Preto ou Branco



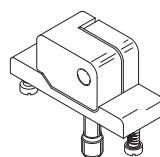
**BRA761**  
Limitador de abertura  
(Para folhas c/ altura acima de 1200mm)  
Alumínio Fosco, Preto ou Branco



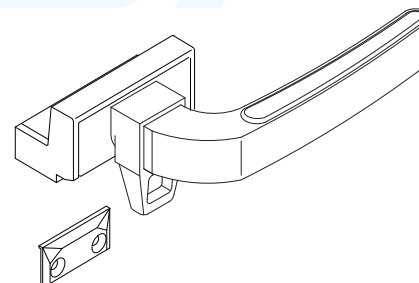
**BRA761**  
Limitador de abertura  
(Para folhas c/ altura acima de 1200mm)  
Alumínio Fosco, Preto ou Branco



**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



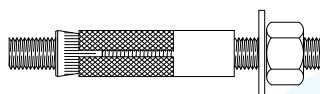
### PAR062

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



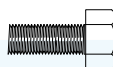
### PAR716

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



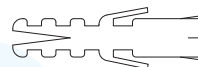
### CHU795

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



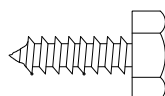
### PAR690

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



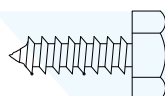
### BUC755

Bucha para fixação S-8  
Nylon



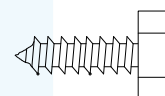
### PAR063

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



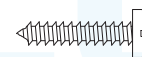
### PAR691

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



### PAR705

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



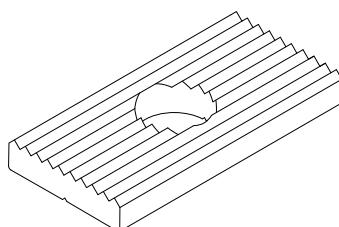
### PAR695

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



### PAR992

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

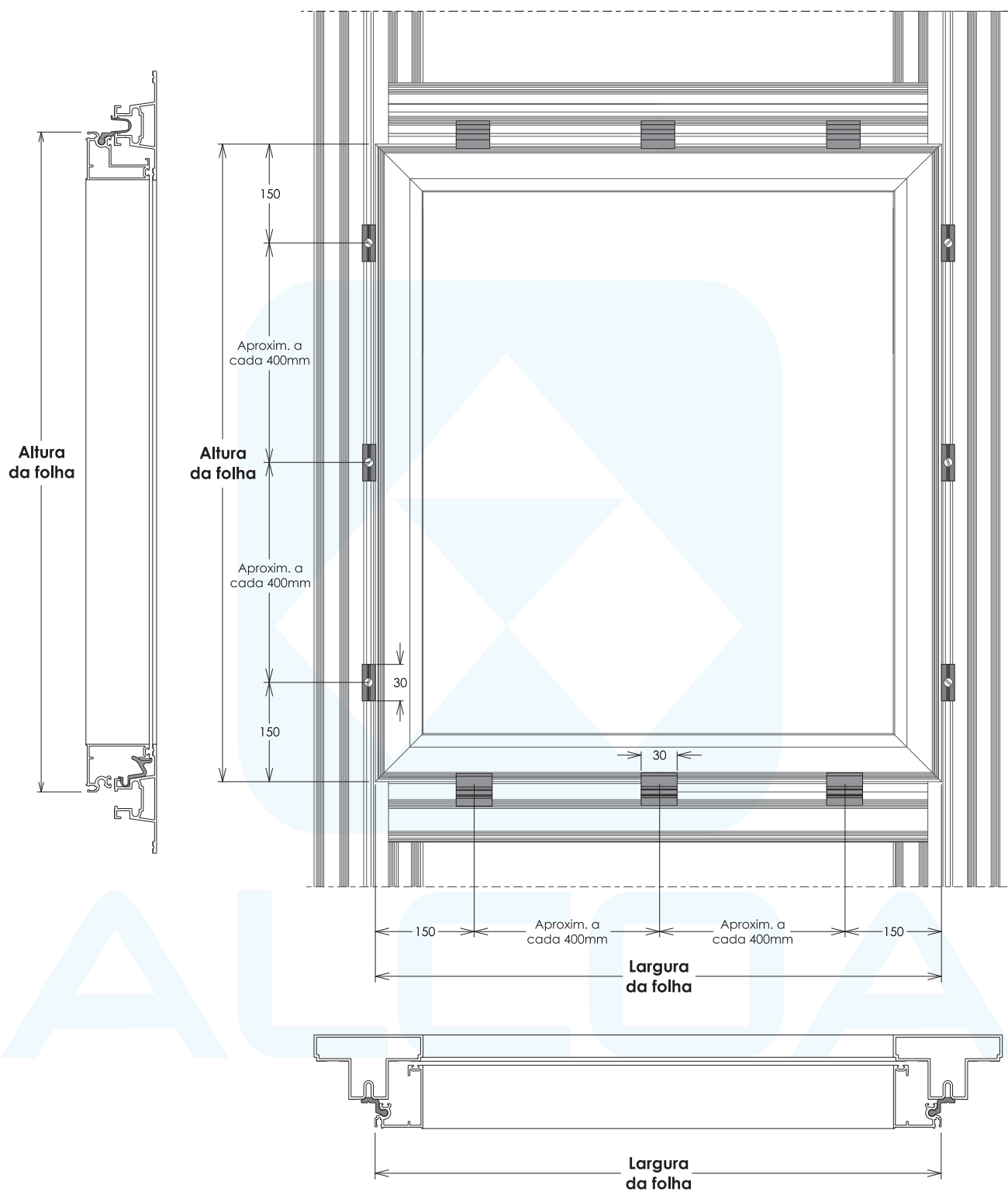


### ARR759

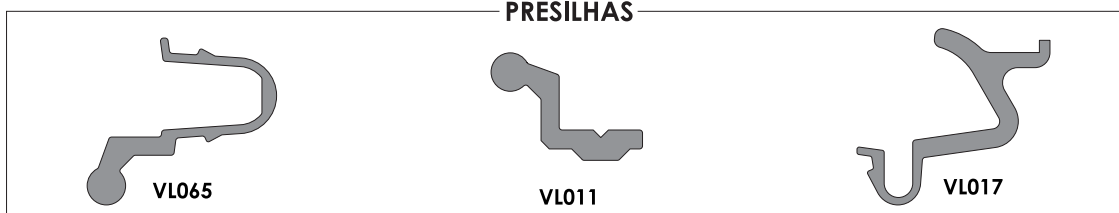
Arruela de ancoragem  
40 mm  
Alumínio Natural  
(FC512)



## Fixação das folhas / Posicionamento das presilhas



### PRESILHAS







## Arquivos eletrônicos



Os capítulos referentes a



## Usinagens



## Instruções de montagem



## Desenhos de montagem



Encontram-se disponíveis no endereço eletrônico [www.alcoa.com.br/cittadue](http://www.alcoa.com.br/cittadue)

# ALCOA