

Portão

LINHA UNIVERSAL

BASCULANTE



ALCOA

Portão

LINHA UNIVERSAL
BASCULANTE

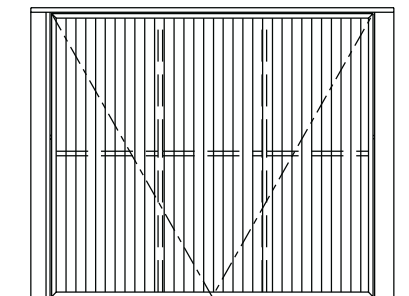
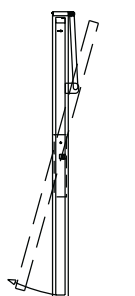
DURABILIDADE, BELEZA E SEGURANÇA.

- Sistema exclusivo para fabricação de portões do tipo basculante, indicados para fechamento de garagens de casas e condomínios, perfeitos para quem busca segurança, praticidade e beleza.
- Ideal para projetos arquitetônicos que buscam um melhor aproveitamento da área útil já que a folha do portão é aberta para cima.
- A folha é movimentada por um sistema exclusivo de guias laterais e contrapesos movidos por cabos de aço e polias.
- Atende a uma grande variedade de projetos, pois possui diferentes tipos de lambris horizontais e verticais que podem combinados na criação das folhas.
- Todos os acessórios necessários para a montagem do portão serão vendidos em um kit, facilitando assim o momento da compra e fabricação.

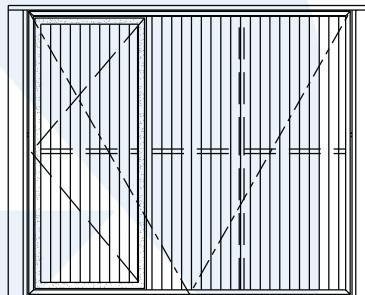
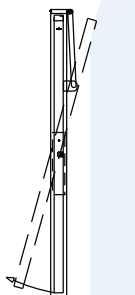




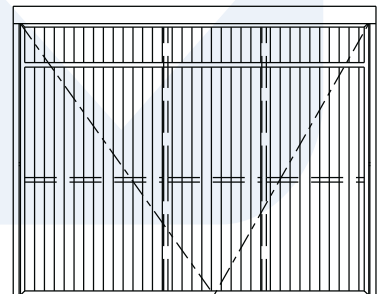
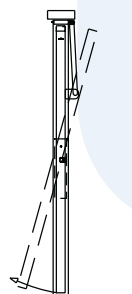
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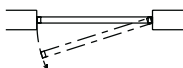
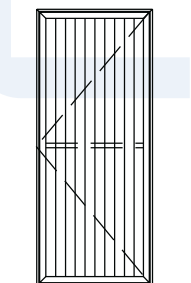
BASCULANTE - FOLHA NORMAL



BASCULANTE FOLHA COM PORTA SOCIAL



BASCULANTE - FOLHA COM BANDEIRA

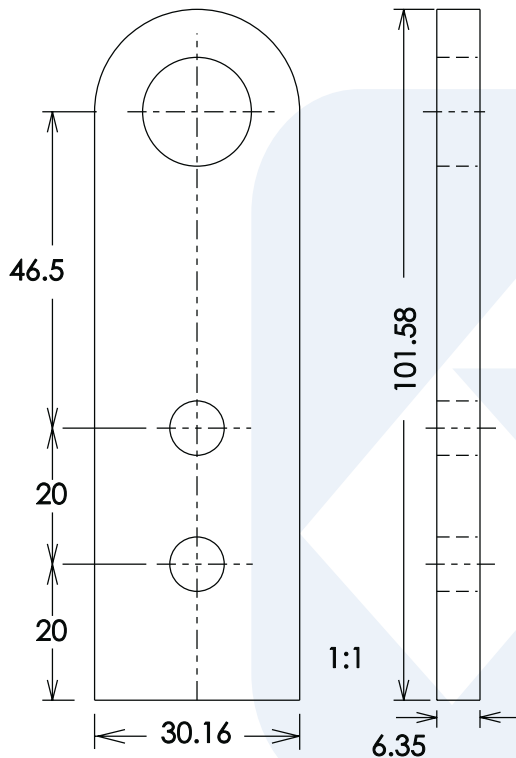


PORTA DE GIRO SOCIAL INDEPENDENTE

BRAÇO E BARRA DE LIGAÇÃO**LIGA 6063 T6**

Lr = 205 MPa Le = 170 MPa Lcis = 125 MPa

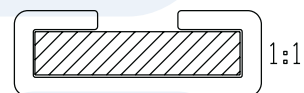
REAÇÃO MÁXIMA NO BRAÇO = 115 kg

BRAÇO DE ALUMÍNIO**BC-035 - 30.16 x 6,35**

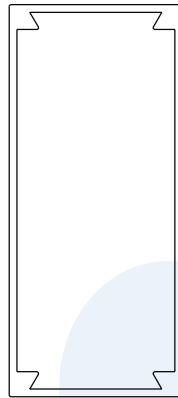
Área = 191.5 mm²
Peso = 0.519 kg/m

BARRA DE LIGAÇÃO**LU-016****LIGA 6063 T6**Área = 205.8 mm²

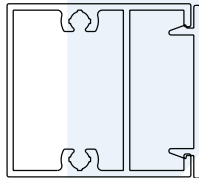
Peso = 0.558 kg/m

CONJUNTO BRAÇO/BARRA**BRAÇO DE ALUMÍNIO**Autil = 191 - 16 x 6.35 = 89 mm²TENSÃO ATUANTE = 1.3 kg/mm² OK! (TRAÇÃO)TENSÃO ATUANTE = 2.3 kg/mm² OK! (ESMAGAMENTO)**BARRA DE LIGAÇÃO**Autil = 205 - 8 x 2.8 = 182 mm²TENSÃO ATUANTE = 0.63 kg/mm² OK! (TRAÇÃO)TENSÃO ATUANTE = 5.1 kg/mm² OK! (ESMAGAMENTO)

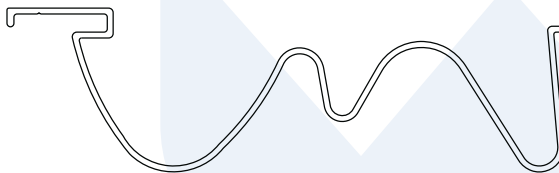
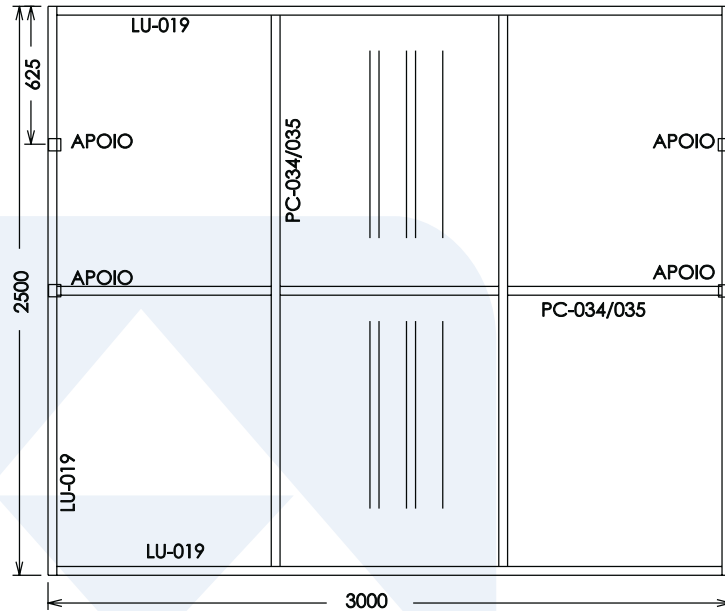
LU-019
 Area = 501 mm²
 Peso = 1.36 kg/m
 Jx = 483918 mm⁴
 Jy = 146961 mm⁴
 Wx = 11207 mm³
 H = 86.4 mm
 B = 67.8 mm
 1:1



PC-034/035
 Area = 265 mm²
 Peso = 0.918 kg/m
 Jx = 61046 mm⁴
 Jy = 39509 mm⁴
 Wy = 1745 mm³
 H = 38 mm
 B = 45.2 mm

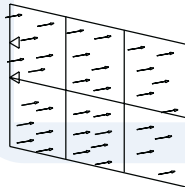


LIGA 6060 T5 - TENSÃO ADM = 7 kg/mm²
 Lr = 15 kg/mm² Le = 11 kg/mm²

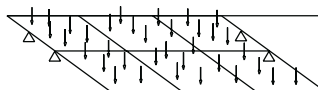


LAMBRI
 Area = 348 mm²
 Jx = 40412 mm⁴
 Wx = 2028 mm³
 H = 39.8 mm
 Peso = 0.94 kg/m

1) PRESSÃO DE ENSAIO = 50 kg/m²
PORTÃO FECHADO

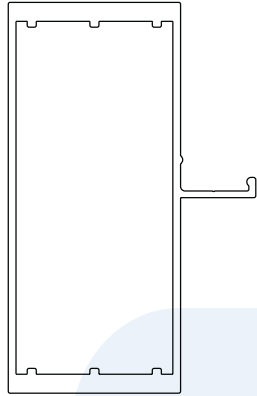


2) PESO PRÓPRIO - PORTÃO ABERTO
 PESO PRÓPRIO = 13 kg/m²



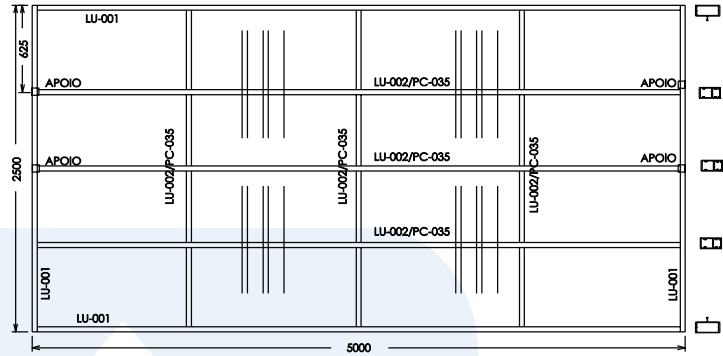
LU-001

Area = 629 mm²
 Peso = 1.7 kg/m
 Jx = 692255 mm⁴
 Jy = 151629 mm⁴
 Wx = 16042 mm³
 H = 86.3 mm
 B = 68.4 mm



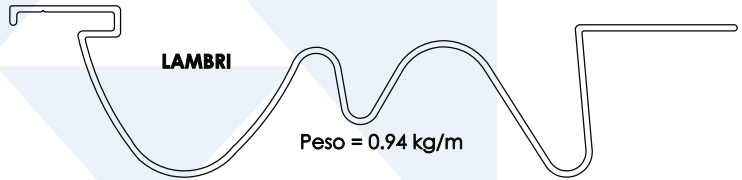
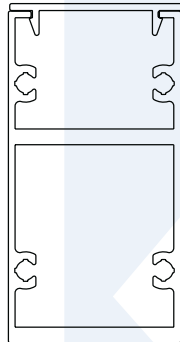
LIGA 6060 T5 - TENSÃO ADM = 7 kg/mm²

Lr = 15 kg/mm² Le = 11 kg/mm²



LU-002/PC-035

Area = 558 mm²
 Peso = 1.71 kg/m
 Jx = 291303 mm⁴
 Jy = 120542 mm⁴
 Wx = 6994 mm³
 H = 83.3 mm
 B = 38 mm

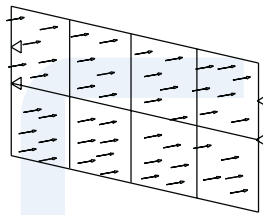


LAMBRI

Peso = 0.94 kg/m

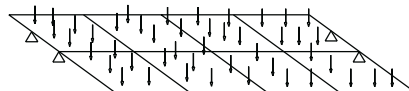
Area = 348 mm²
 Jx = 40412 mm⁴
 Wx = 2028 mm³
 H = 39.8 mm

**1) PRESSÃO DE ENSAIO = 50 kg/m²
 PORTÃO FECHADO**

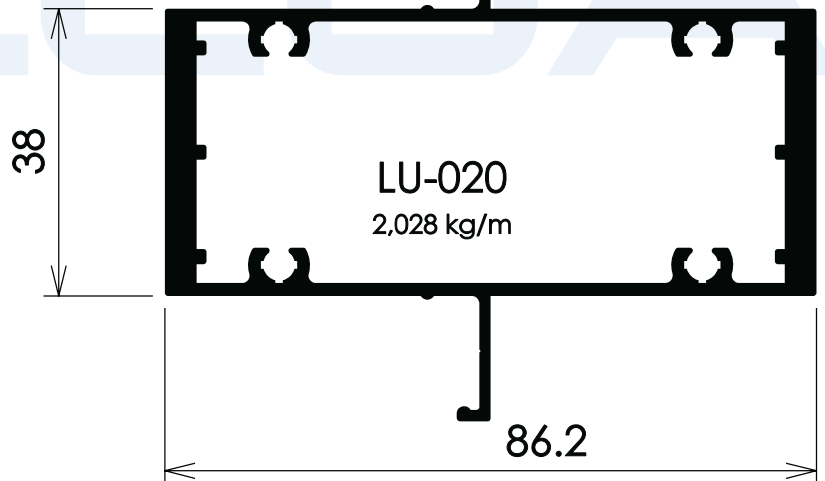
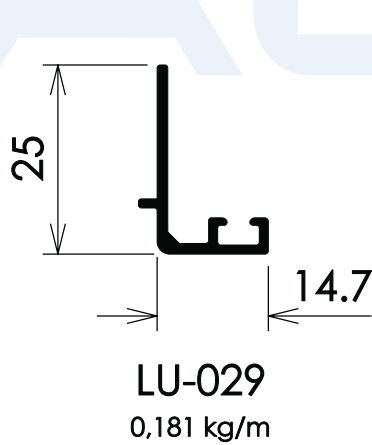
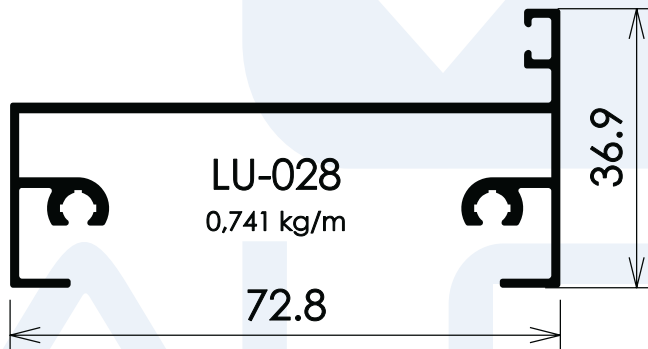
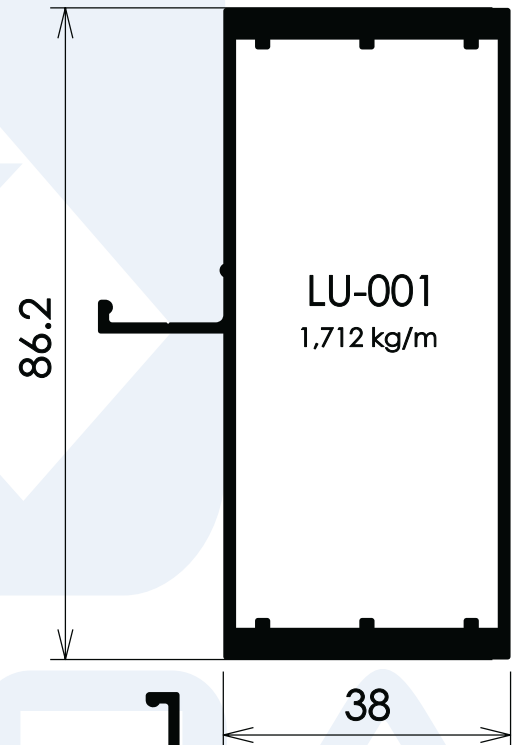
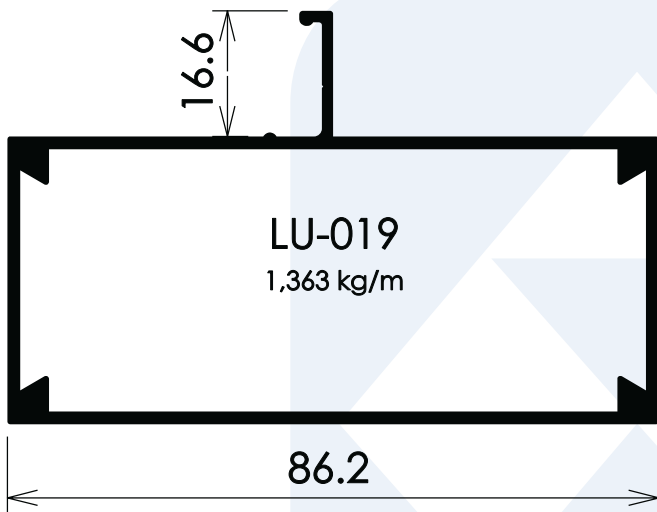
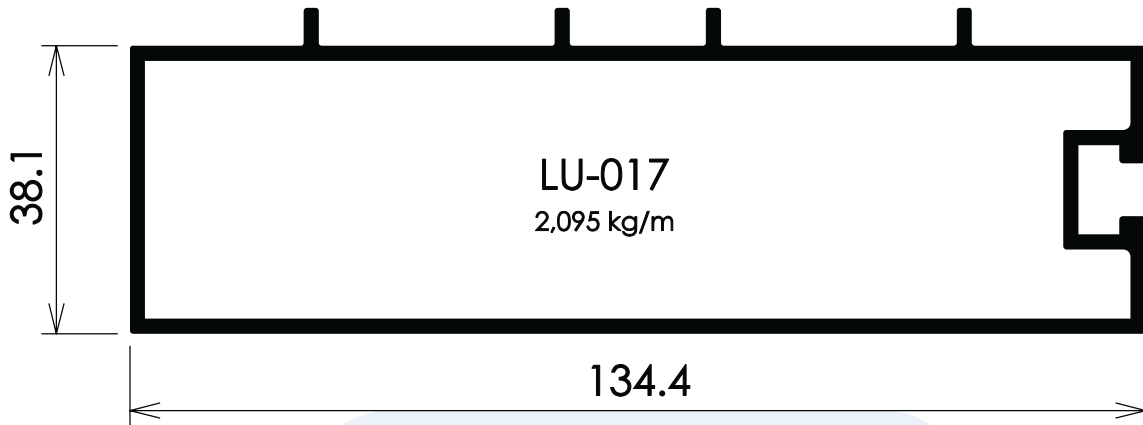


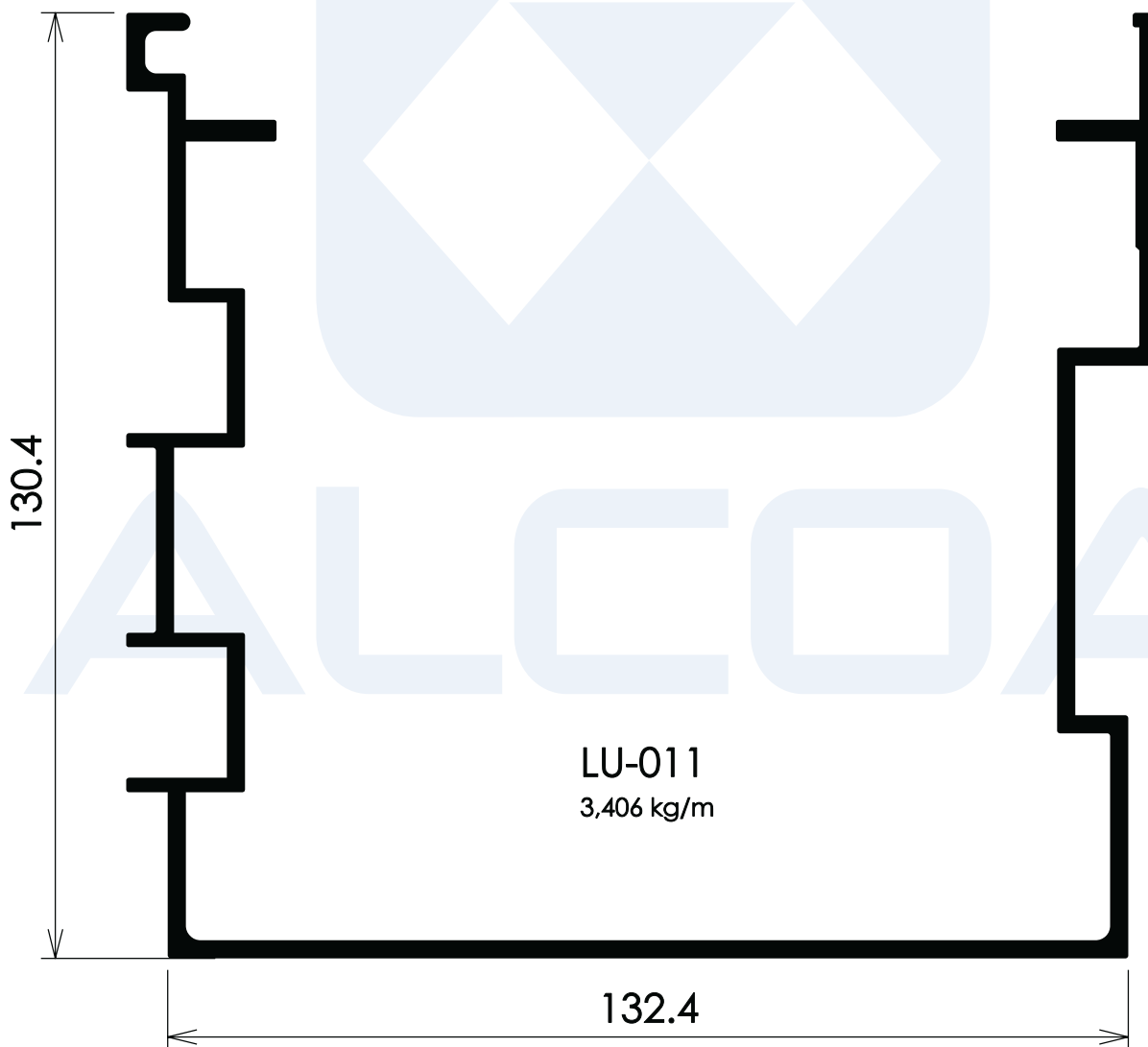
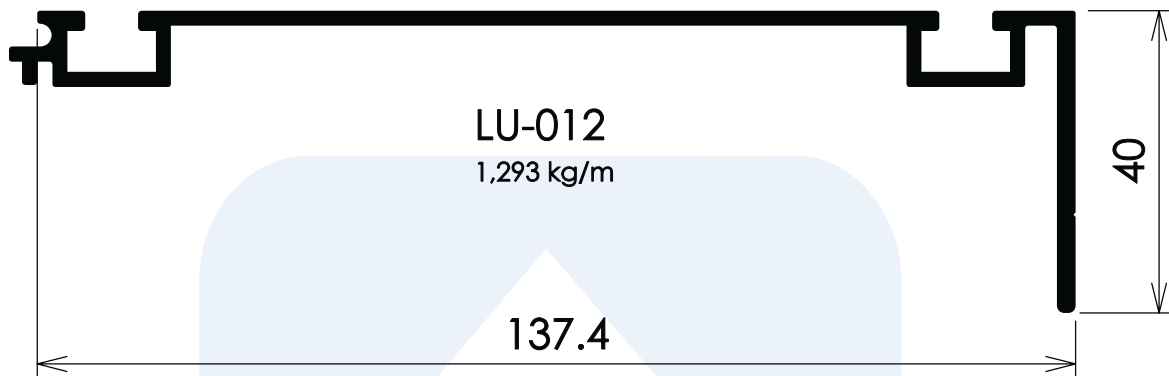
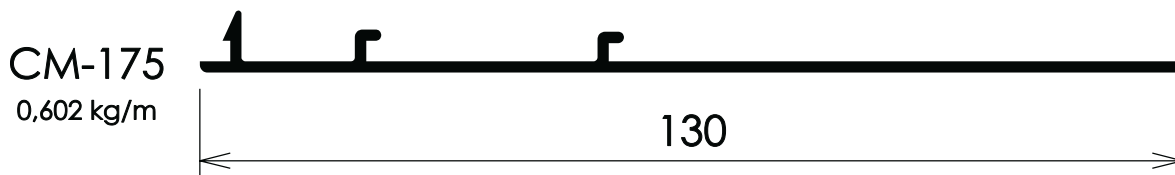
2) PESO PRÓPRIO - PORTÃO ABERTO

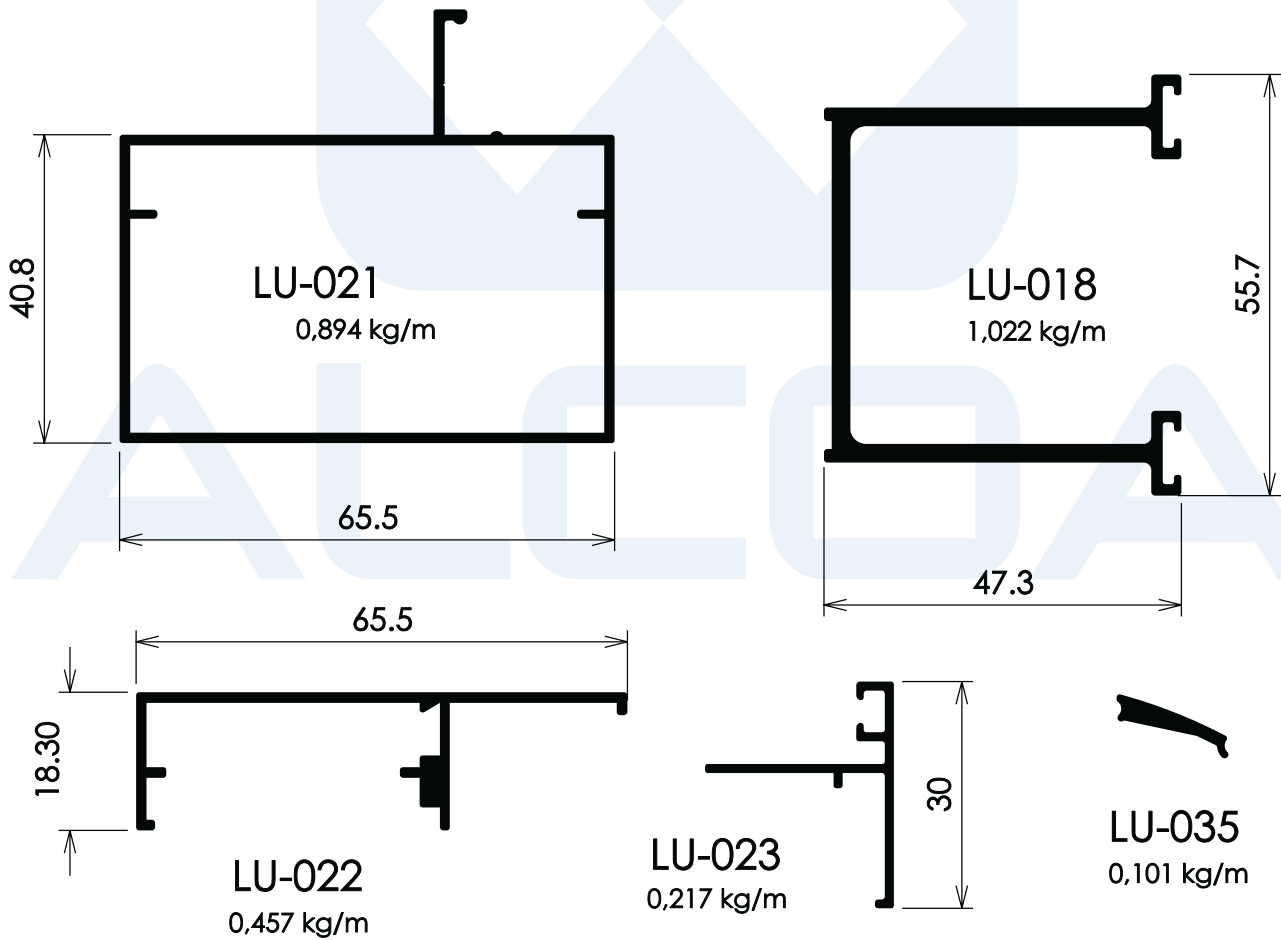
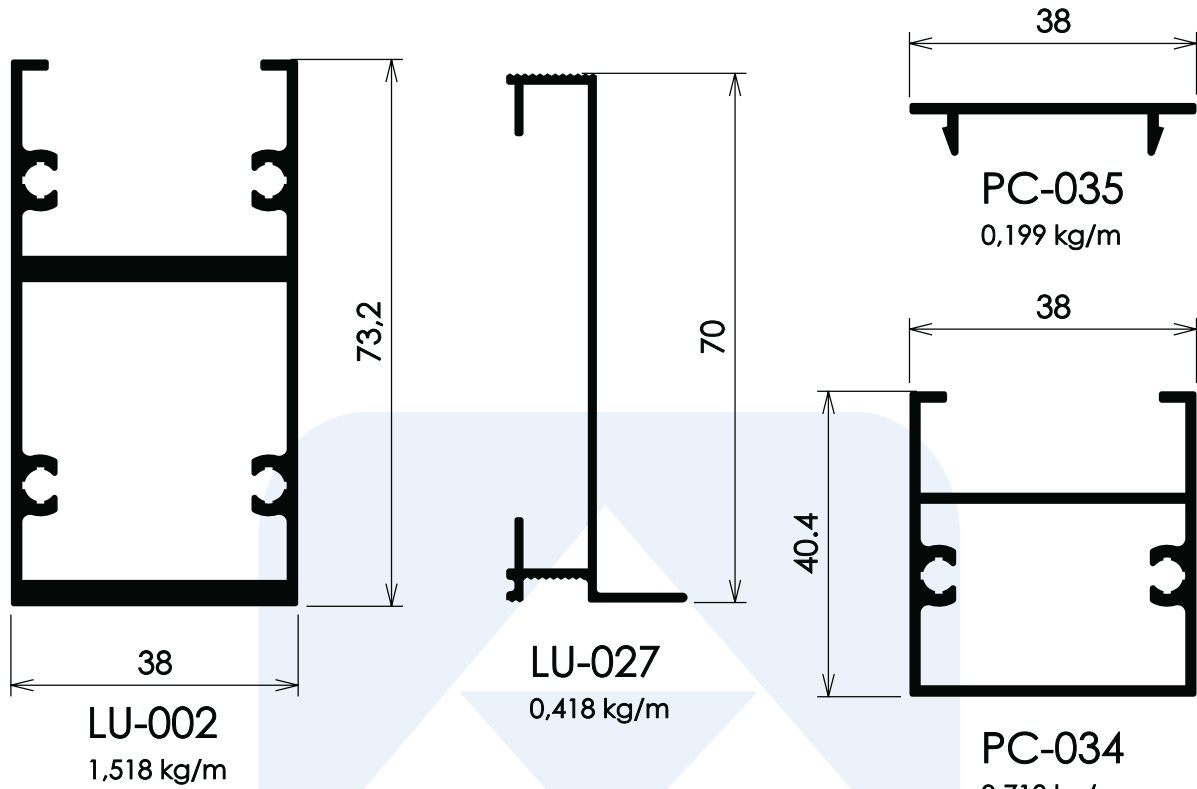
PESO PRÓPRIO = 13 kg/m²



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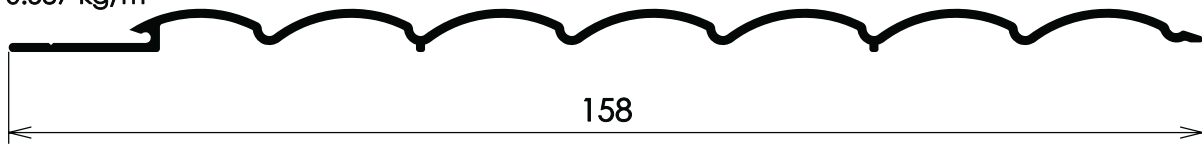






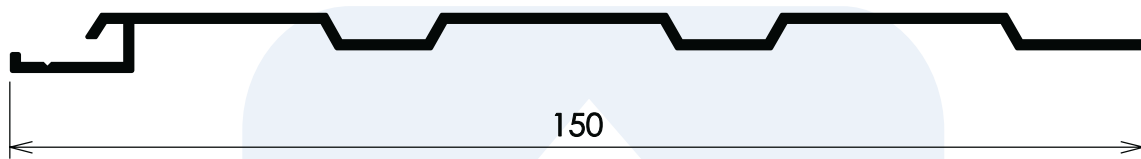
LU-010

0.587 kg/m



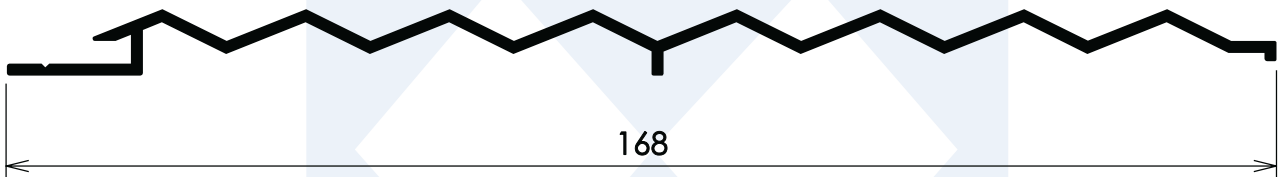
LB-0001

0.705 kg/m



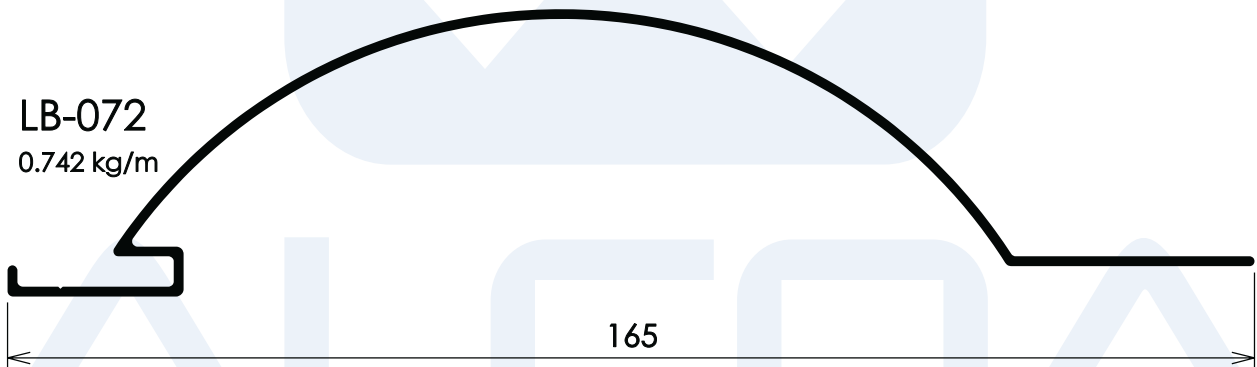
LB-007

0.851 kg/m



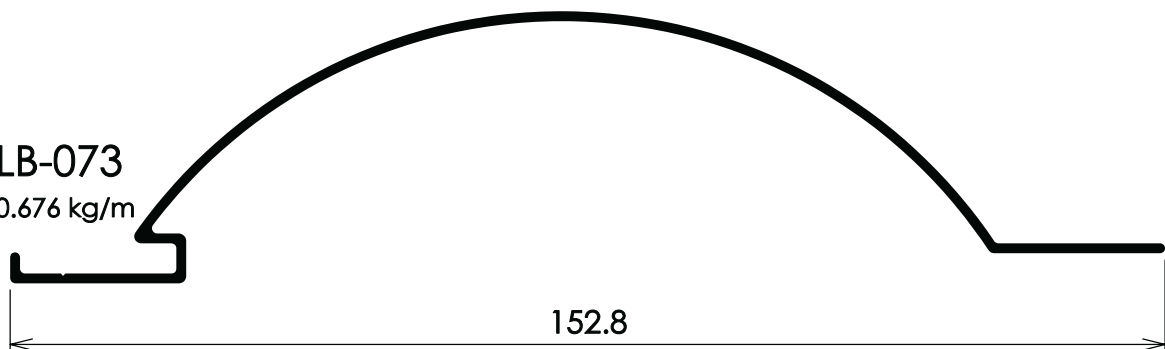
LB-072

0.742 kg/m

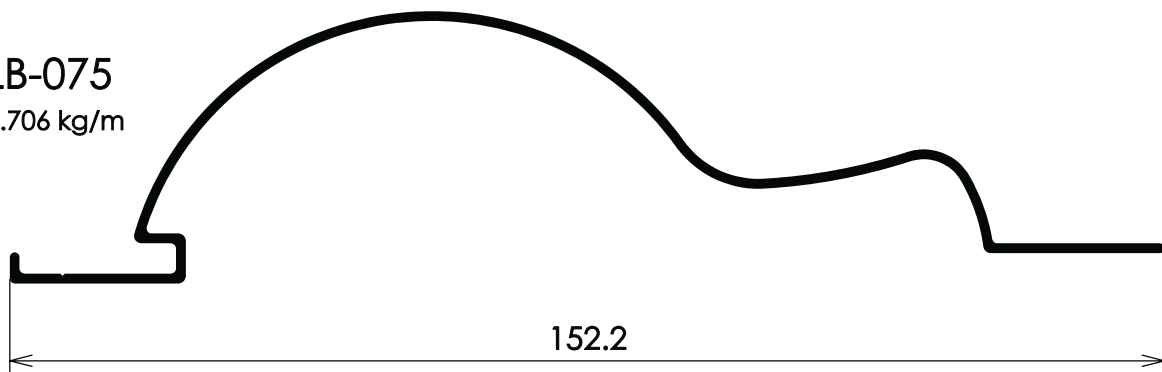


LB-073

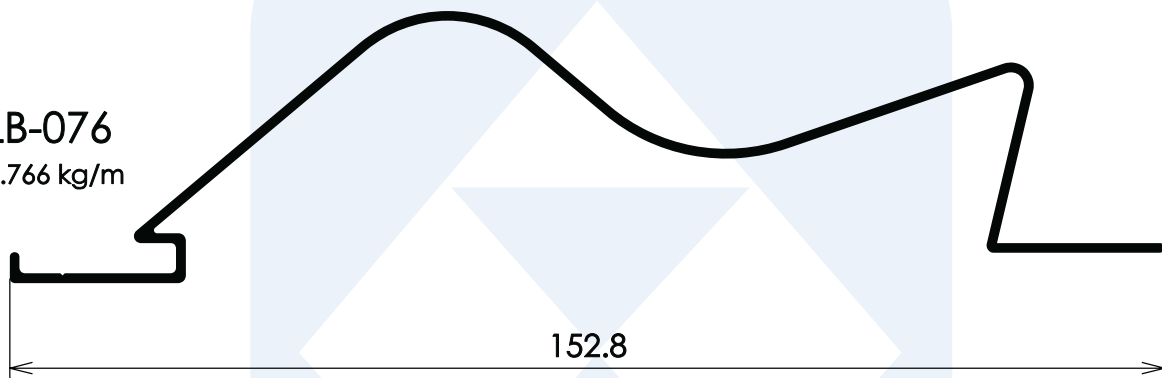
0.676 kg/m



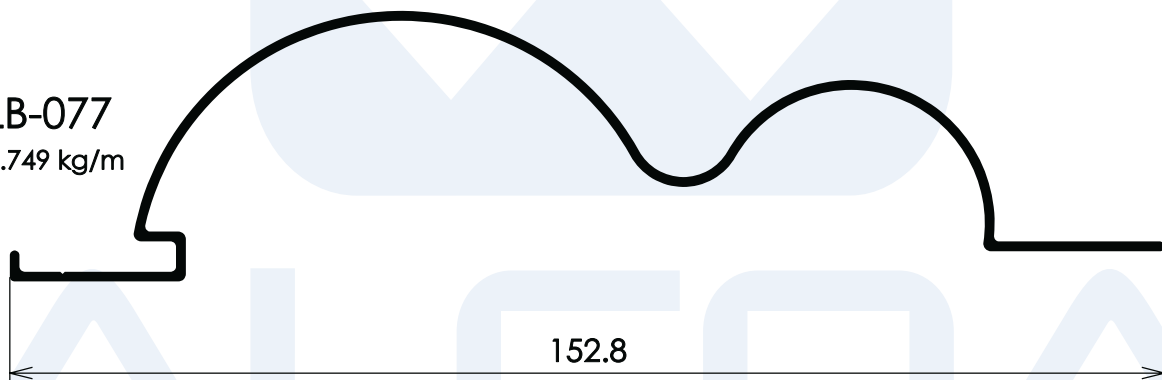
LB-075
0.706 kg/m



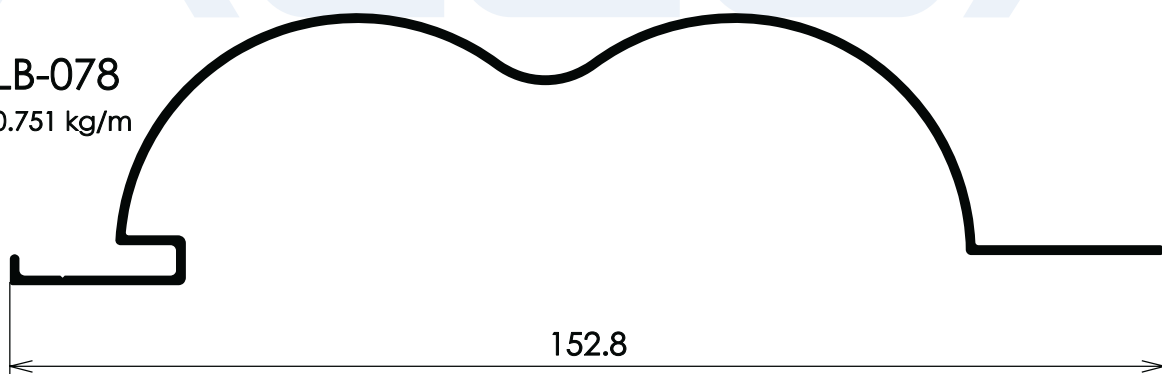
LB-076
0.766 kg/m



LB-077
0.749 kg/m



LB-078
0.751 kg/m



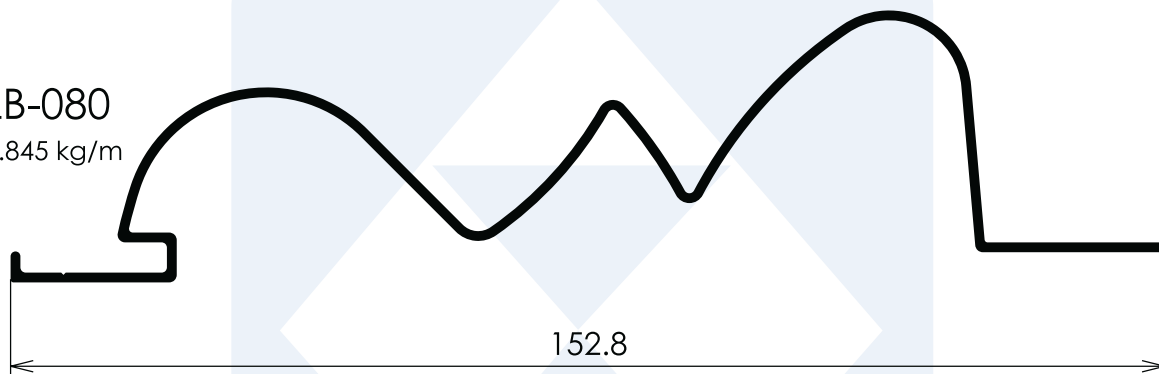
LB-079

0.758 kg/m



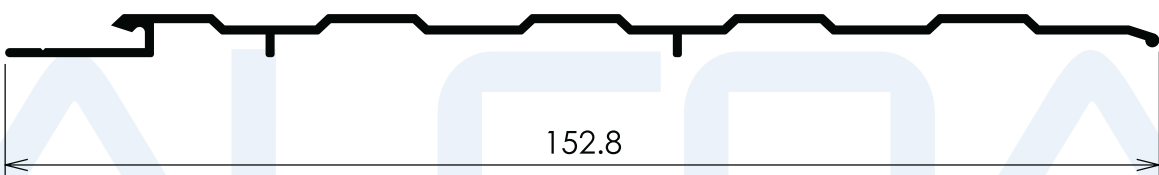
LB-080

0.845 kg/m



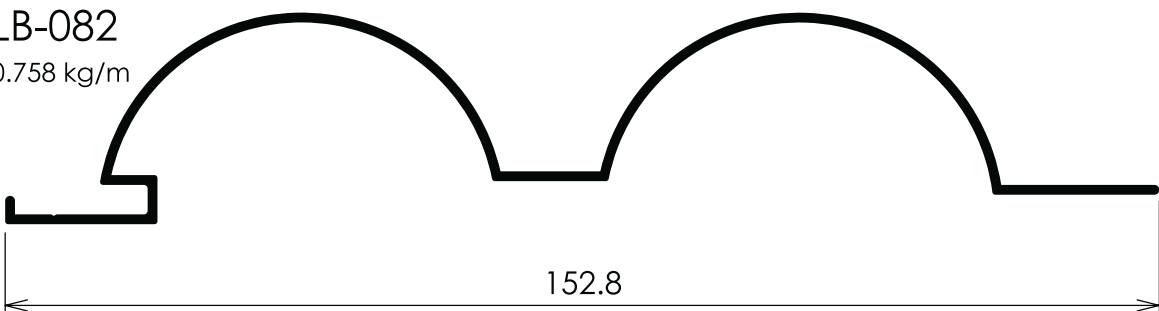
LB-081

0.570 kg/m

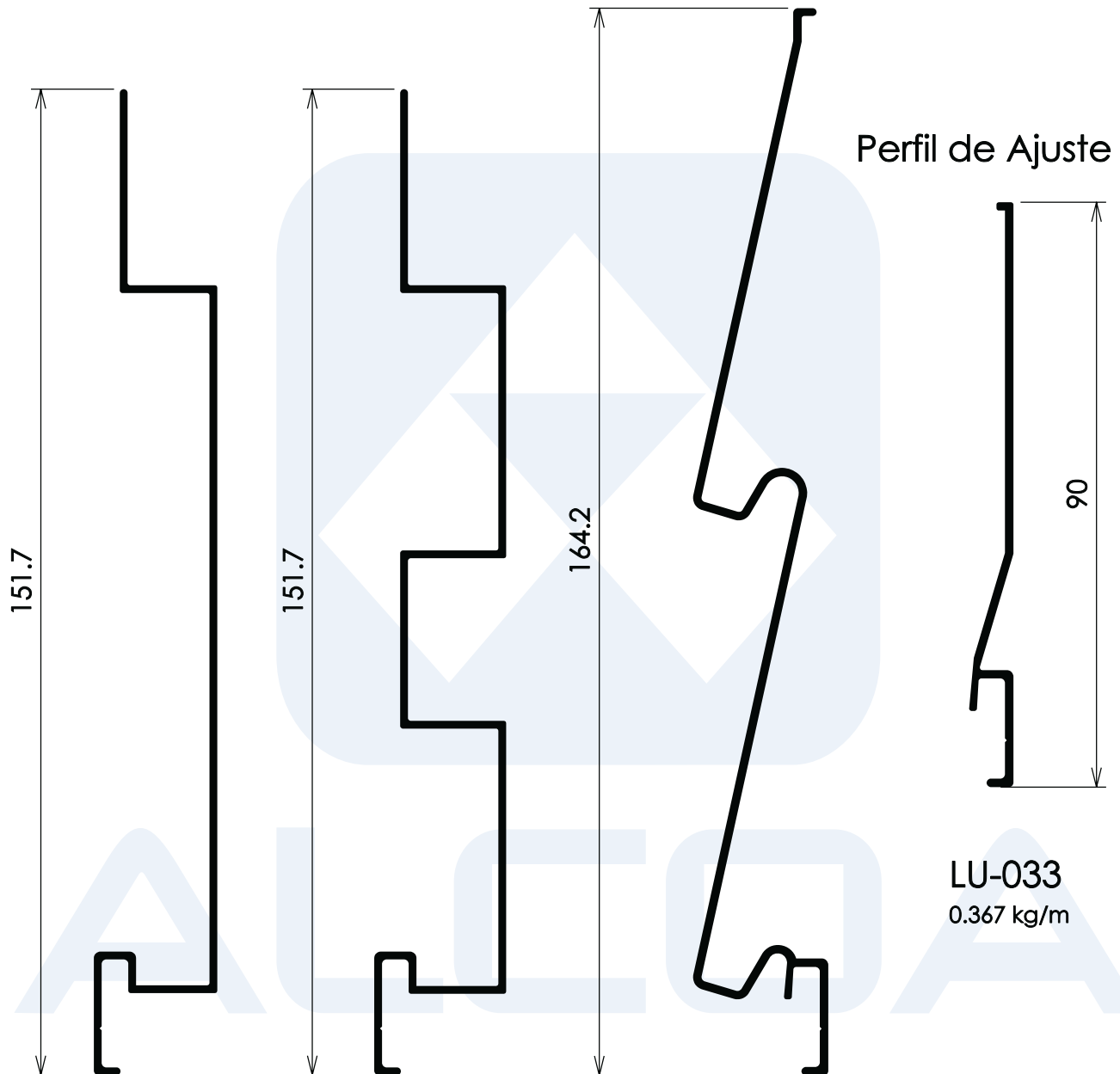


LB-082

0.758 kg/m



Lambris Horizontais



LU-031
0.637 kg/m

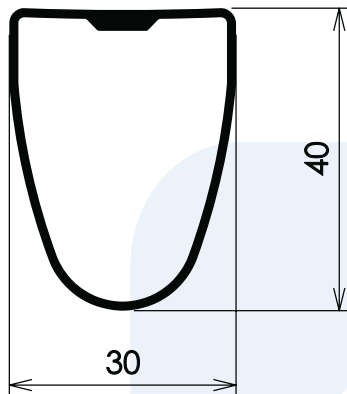
LU-030
0.745 kg/m

LU-032
0.800 kg/m

LU-033
0.367 kg/m

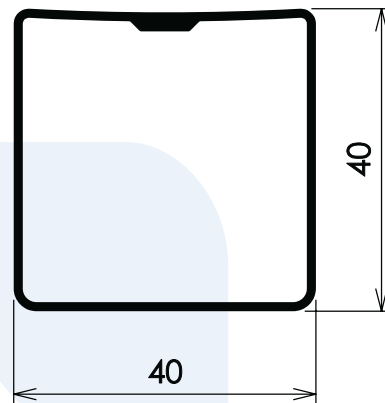
PC-033

0.417 kg/m



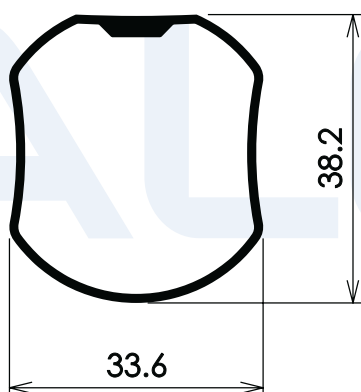
PC-041

0.523 kg/m



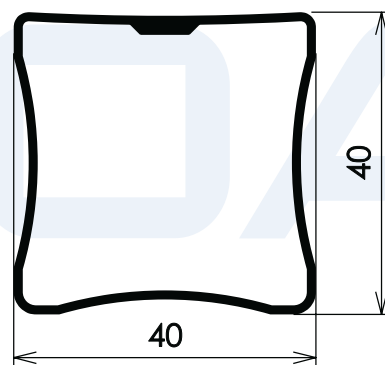
PC-042

0.422 kg/m



PC-044

0.525 kg/m



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| PAR-936 | Parafuso Ø AA 4,2mmx16mm CP | 20 |
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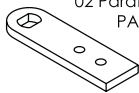
KITBAS001 - Kit de acessórios para Portão basculante 3 metros

KITBAS002 - Kit de acessórios para Portão basculante 4 metros

KITBAS003 - Kit de acessórios para Portão basculante 5 metros

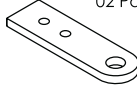
CORES: Preto, Branco, Fosco

02 Paraf. c/Porca
PAR-690

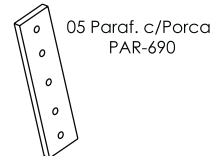


Ponteira superior
do Braço
02 pç

02 Paraf. c/Porca
PAR-690

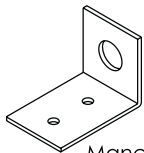


Ponteira Inferior
do Braço
02 pç



Barra de Fixação
da Travessa

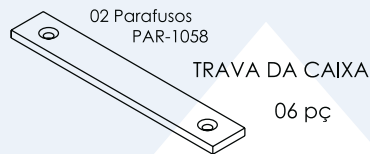
Portão até 3 mt = 02 pç
Portão até 4 mt = 04 pç
Portão até 5 mt = 09 pç



02 Paraf. c/Porca
PAR-690

Mancal

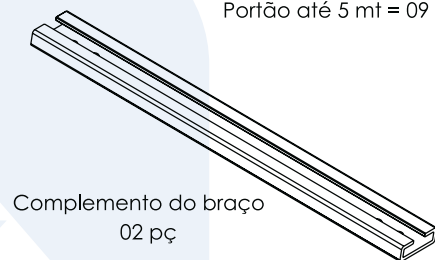
Portão até 3 mt = 03 pç
Portão até 4 mt = 04 pç
Portão até 5 mt = 05 pç



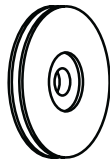
02 Parafusos
PAR-1058

TRAVA DA CAIXA

06 pç

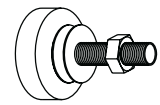


Complemento do braço
02 pç



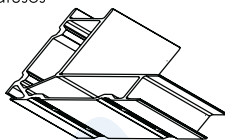
Roldana com Rolamento
02 pç

Detalhe de Aplicação
02 Conj.

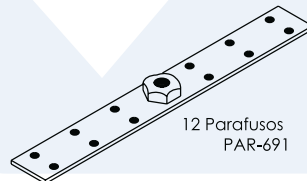


Roldana Guia Lateral
com rolamento
02 pç

PAR-1059
08 Parafusos



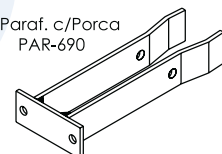
Conexão
04 pç



12 Parafusos
PAR-691

Suporte para Guia Lateral
02 pç

02 Paraf. c/Porca
PAR-690



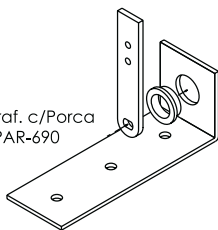
Suporte da Roldana
02 pç



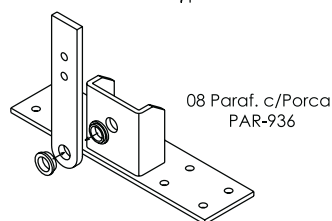
Cabo de aço
02 conj.

CAIXA C/ CAPACIDADE DE ATÉ 70 KG
P/ MEDIDA MÁXIMA DO PORTÃO COM
2500 x 5000 mm

03 Paraf. c/Porca
PAR-690

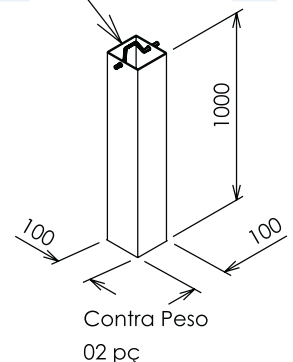


Suporte do Estabilizador
02 pç

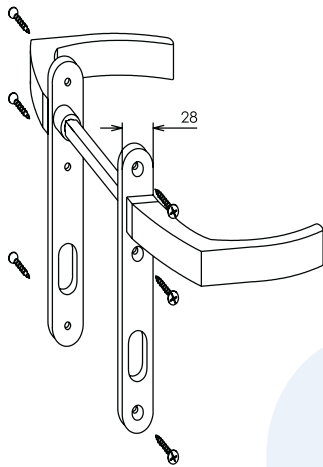


08 Paraf. c/Porca
PAR-936

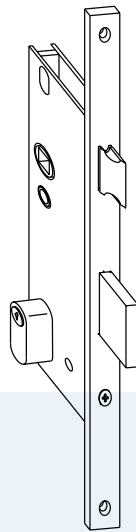
Suporte do Braço Estabilizador
02 pç



Contra Peso
02 pç

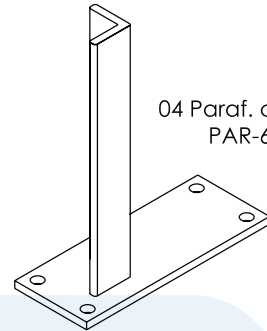


MAC-1001

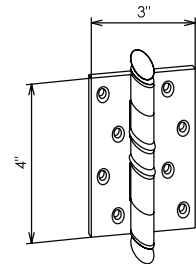


FRA-986

KITBAS004 - Kit Motorização
CORES: Preto, Branco, Fosco

Suporte do Motor
02 pç

04 Paraf. c/Porca
PAR-690

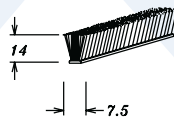


DOB-581



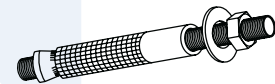
PAR-1060

PARAF. CAB. ABAULADA C/ SEXT. INTERNO
M6x15 inox 304 ANSI B 18,3 (100pç)



FIT-316

FITA VEDADORA
BASE 7.5 x 14 mm-PRETA



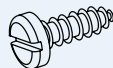
CHU-795

CHUMBADOR C/PORCA,
ARRUELA E PRISIONEIRO - 9,5 x 80 mm



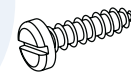
PAR-437

PARAF. AA CP 3,5 x 9,5
AÇO INOX NATURAL



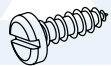
PAR-691

PARAF. AA CP 4,8 x 13
AÇO INOX NATURAL



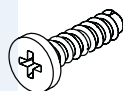
PAR-936

PARAF. AA CP 4,2 x 16
AÇO INOX NATURAL



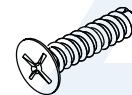
PAR-991

PARAF. AA CP 4,2 x 13
AÇO INOX PRETO



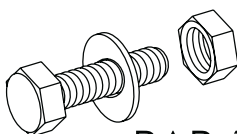
PAR-1024

PARAF. AA CP PHILIPS 4,2 x 13
AÇO INOX NATURAL



PAR-1056

PARAF. AA CX PHILIPS 4,8 x 19
AÇO INOX NATURAL



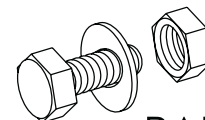
PAR-1057

PARAF. SEXT. 1/4" x 1.1/2" PORCA E ARRUELA
AÇO INOX NATURAL



PAR-1058

PARAF. AA CX PHILIPS 4,2 x 13
AÇO INOX NATURAL

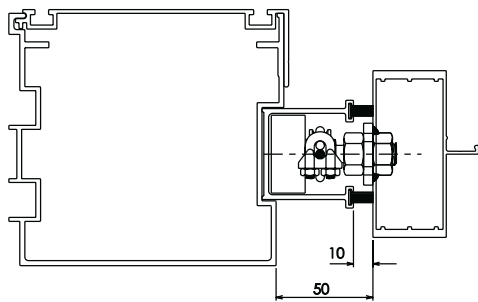


PAR-1059

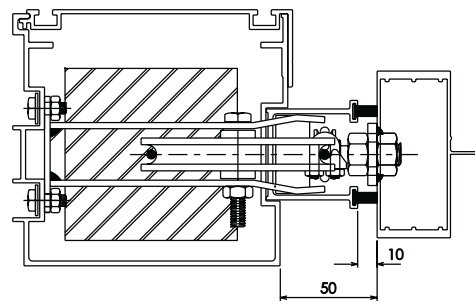
PARAF. SEXT. 1/4" x 5/8" PORCA E ARRUELA
AÇO INOX NATURAL

| Tipo de Usinagem | Página |
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| Instruções de usinagens e montagens para portão de 3 metros | 23 |
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| Esquema portão motorizado | 28 |
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| Definição da medida do braço | 30 |
| Determinar o ponto de giro | 31 |

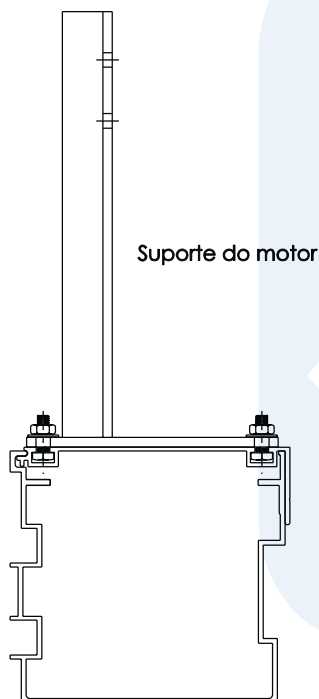
ALCOA



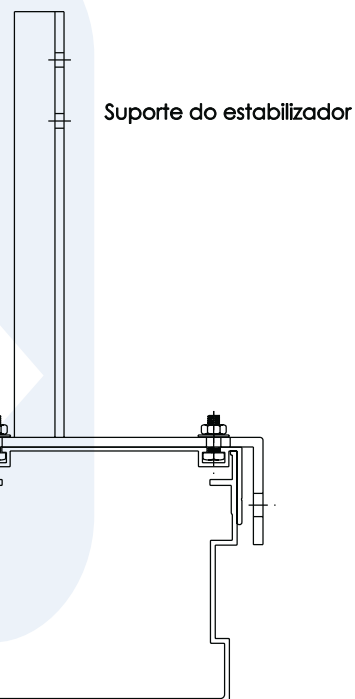
Guia lateral



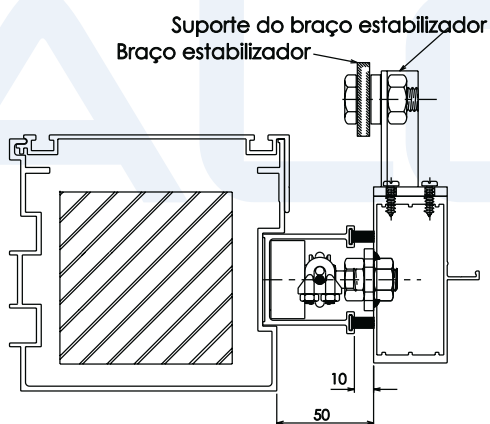
Conjunto da roldana



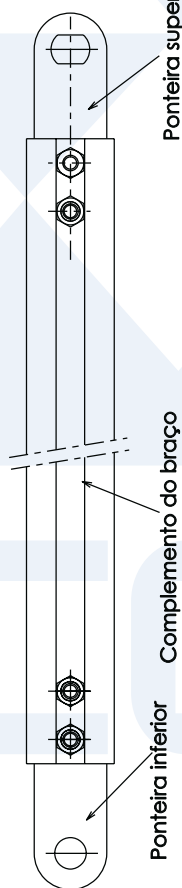
Suporte do motor



Suporte do estabilizador



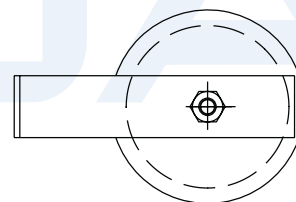
Conjunto do braço estabilizador



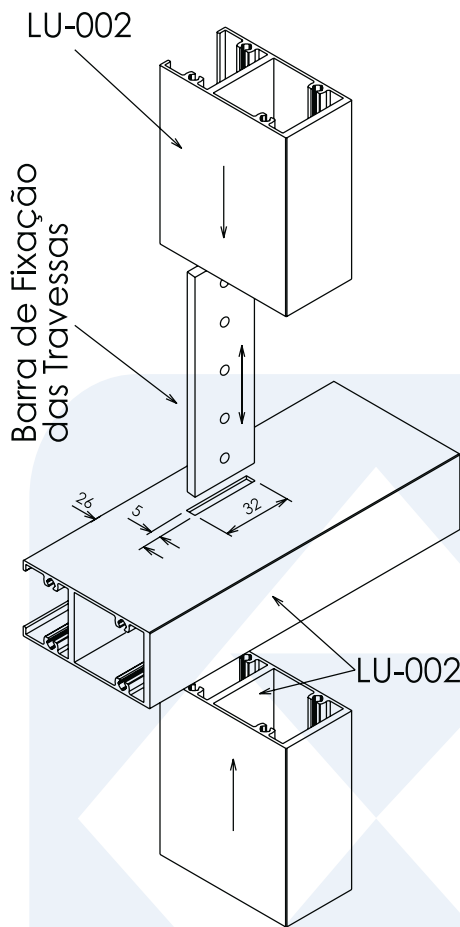
Ponteira superior

Complemento do braço

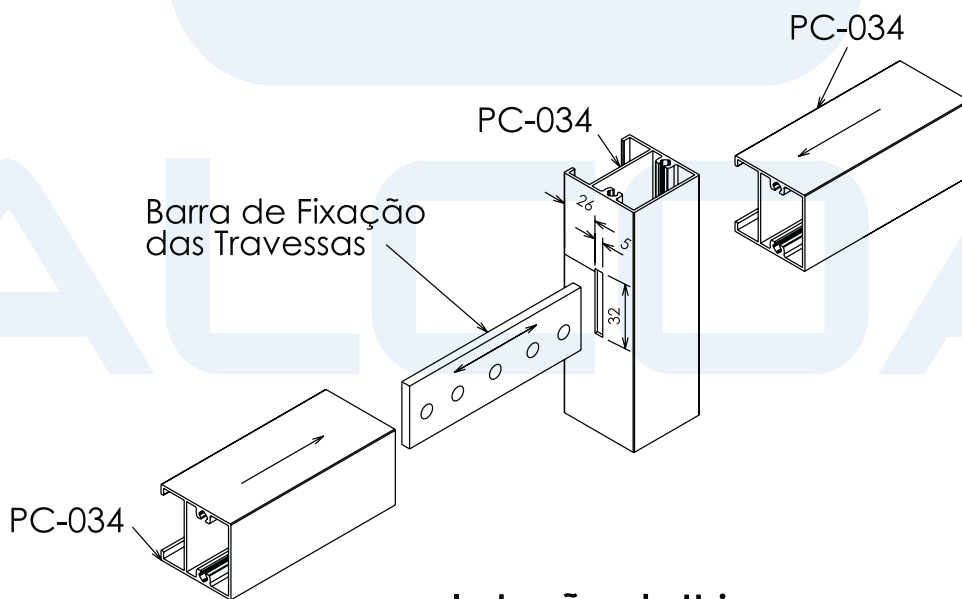
Ponteira inferior



Suporte com roldana

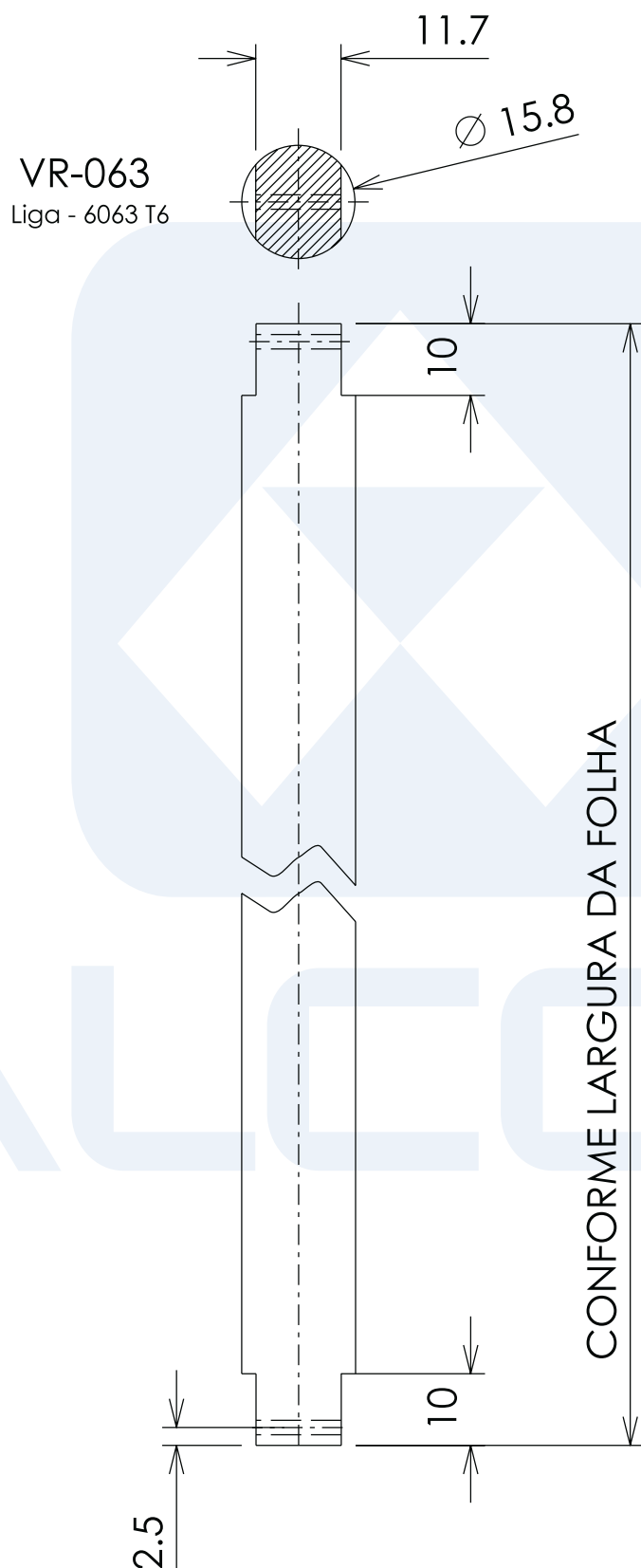


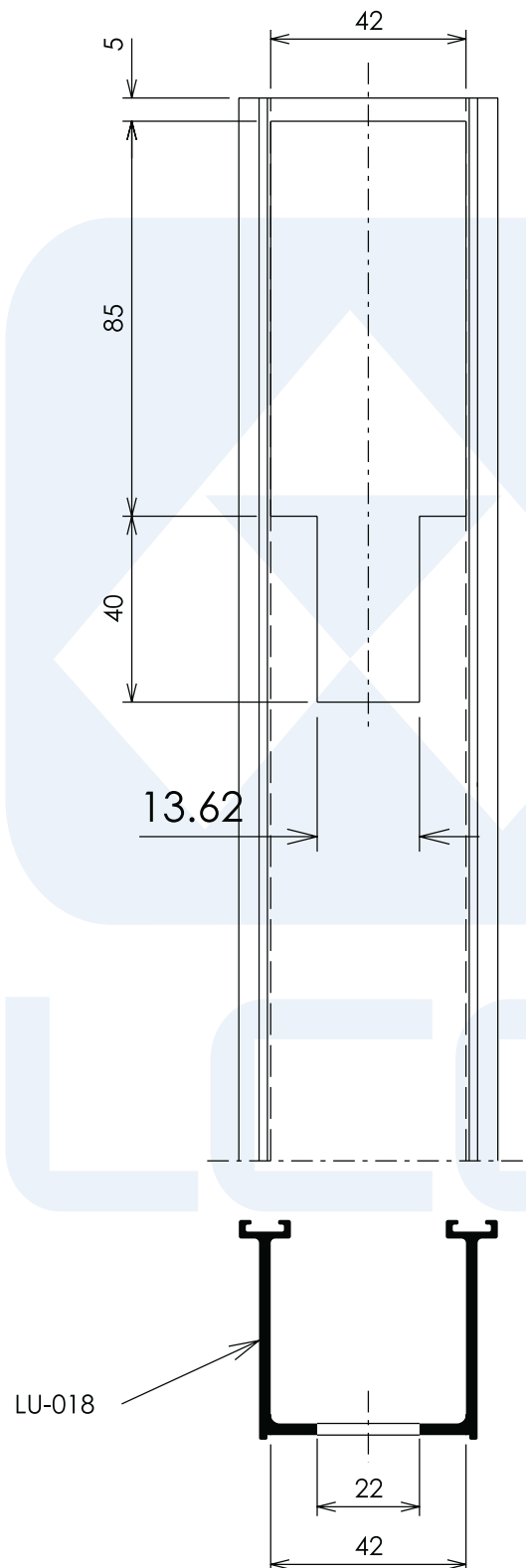
Instruções de Usinagem e Montagem para Portões de 5000 mt

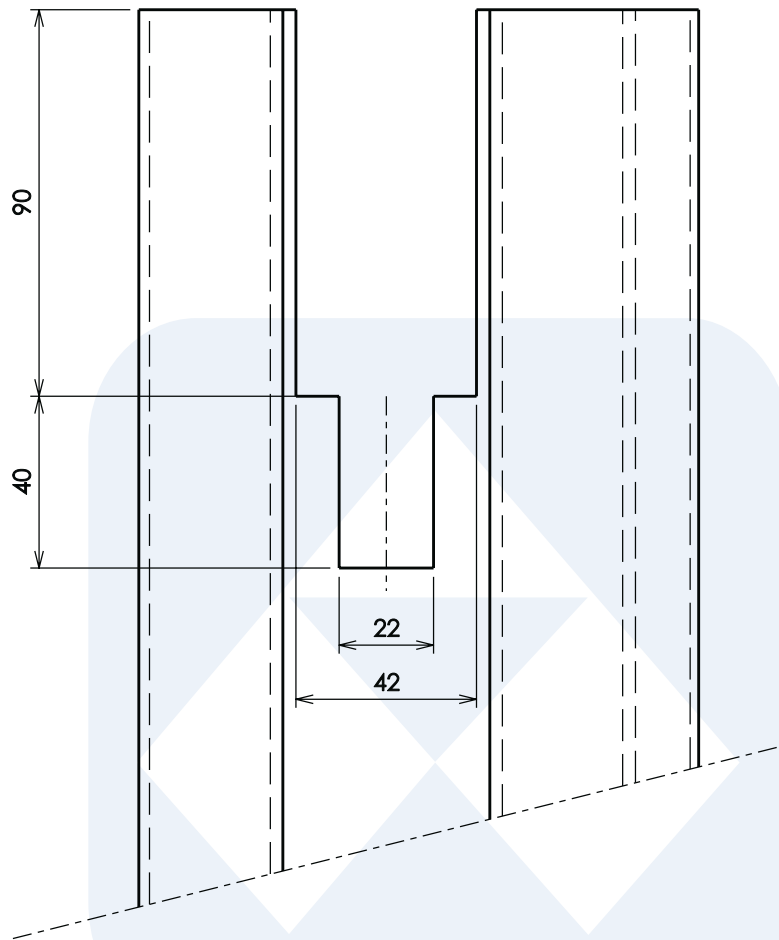


Instruções de Usinagem e Montagem para Portões de 3000 mt

BARRA ESTABILIZADORA

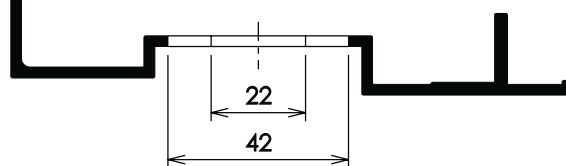


ENCAIXE SUPERIOR NA GUIA
PARA APOIO DA ROLDANA

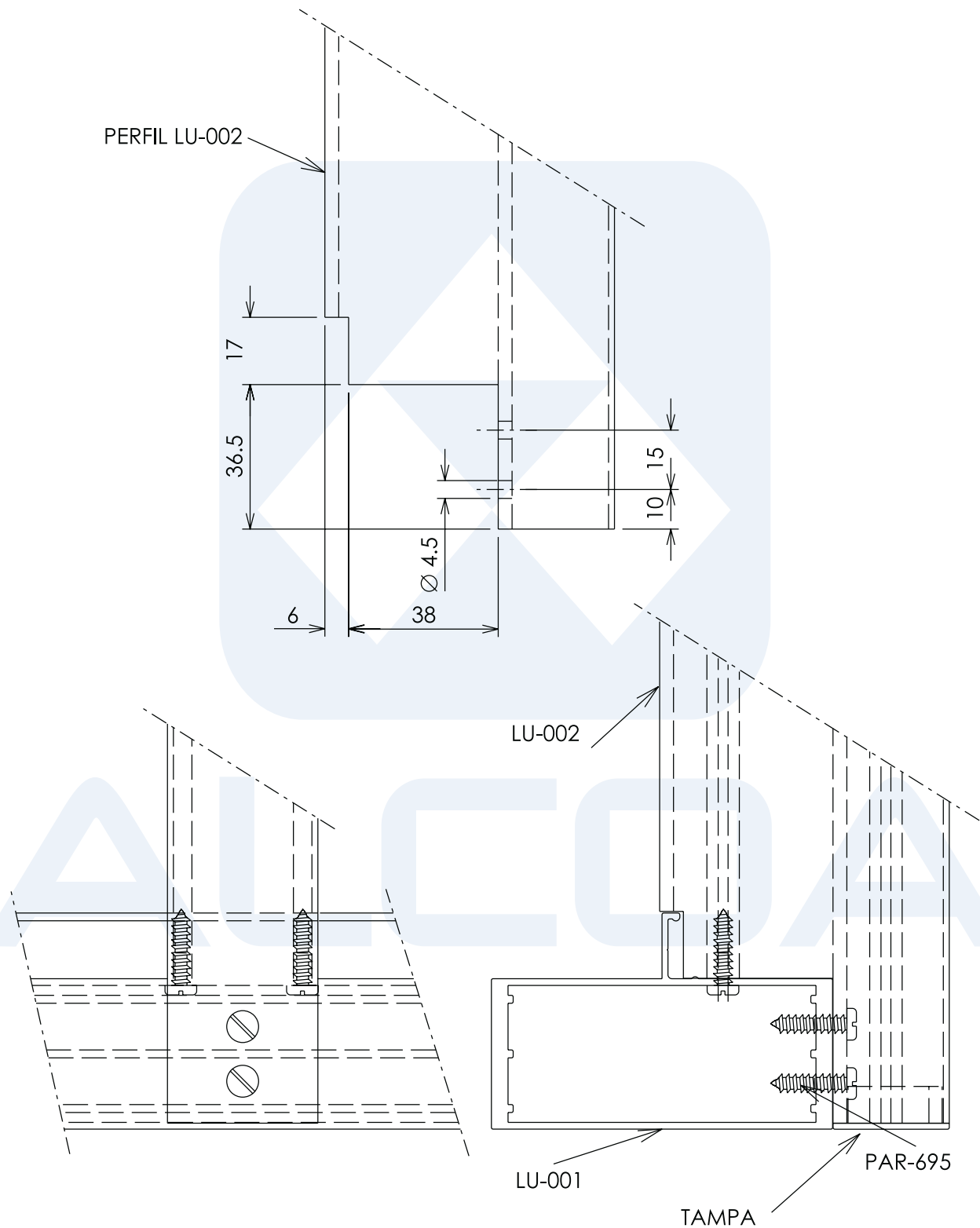


Encaixe superior na caixa para apoio da roldana

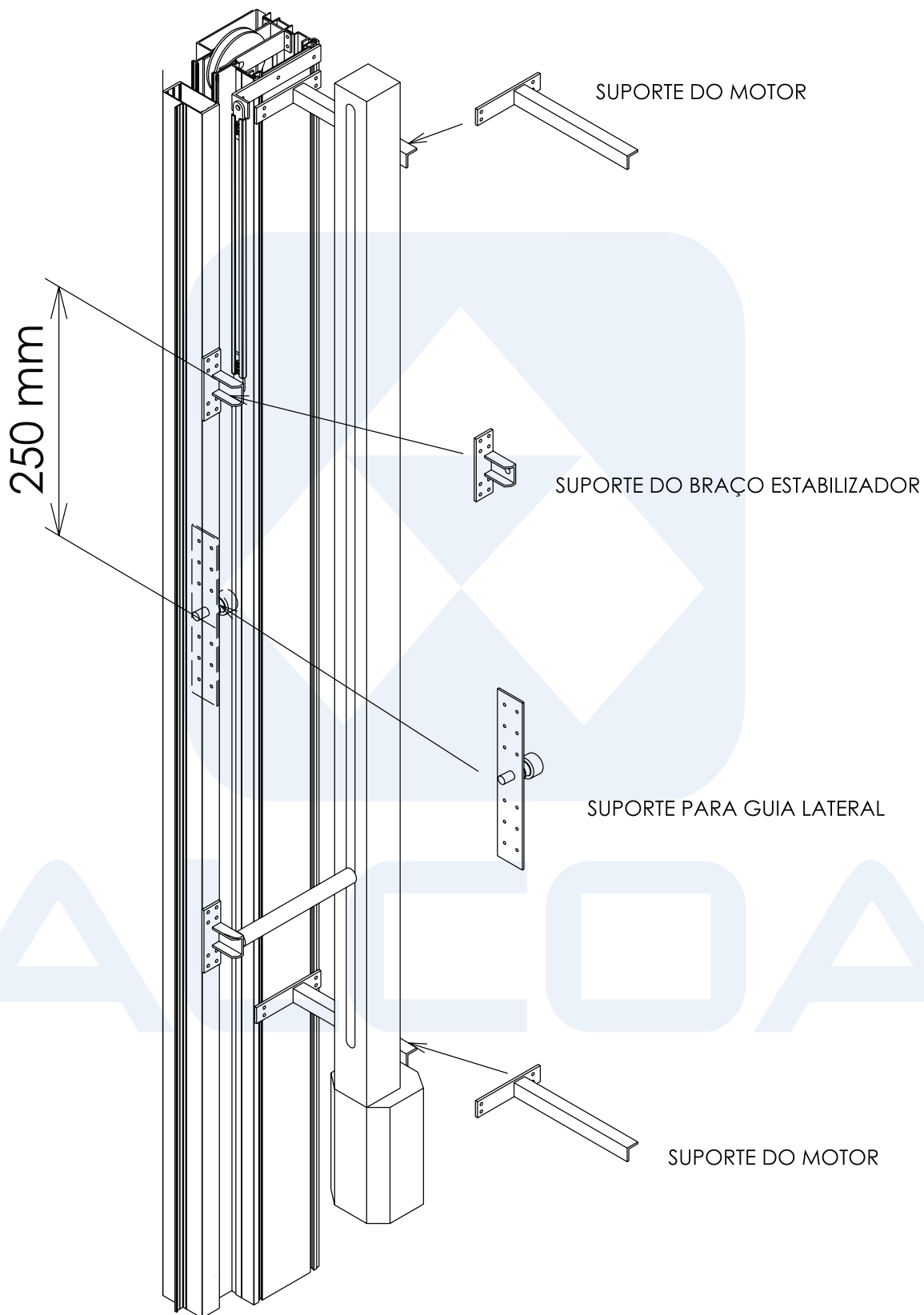
LU-011



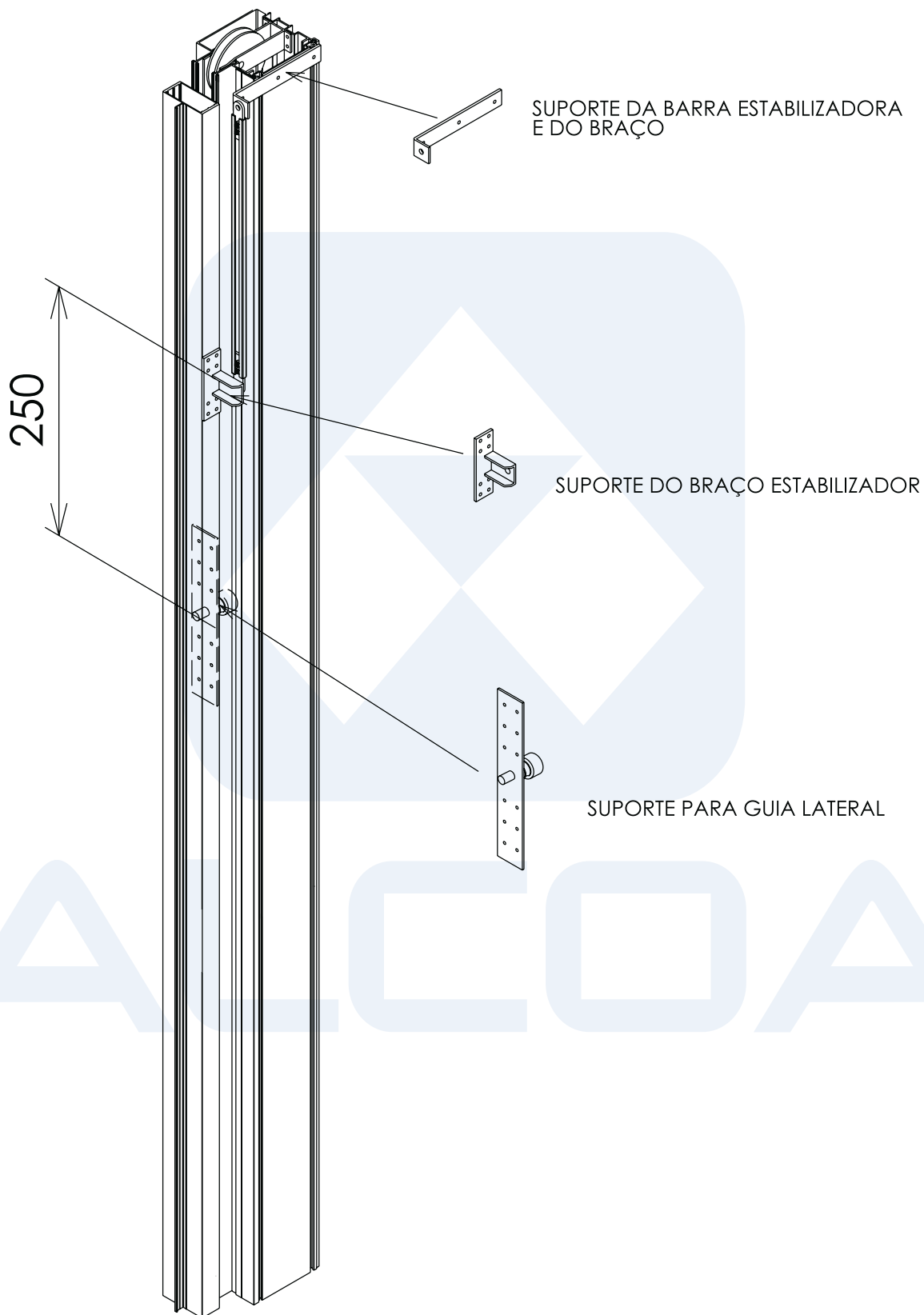
USINAGEM DA TRAVESSA



ESQUEMA PORTÃO MOTORIZADO



ESQUEMA PORTÃO MANUAL



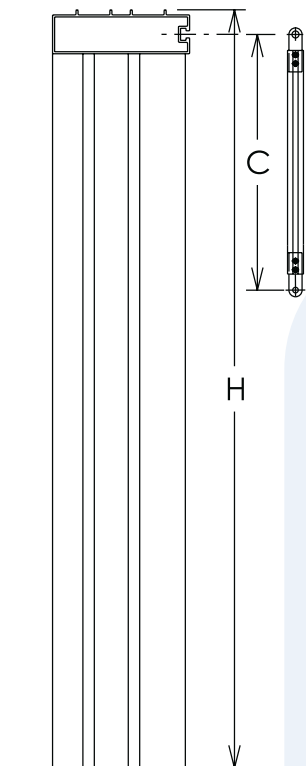
DEFINIÇÃO DA MEDIDA DO BRAÇO

Fórmula

$$C = (H - 20) \times 0,27$$

ATENÇÃO:

A Medida "C" é Entre Eixo dos Furos



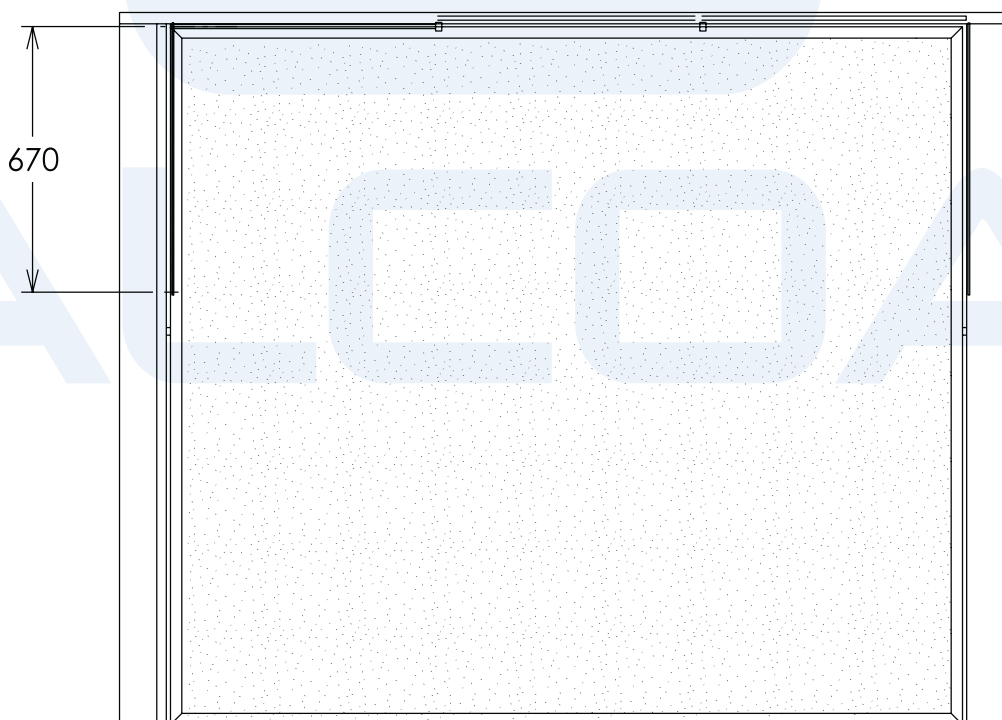
Exemplo

$$C = 2500 - 20 = 2480$$

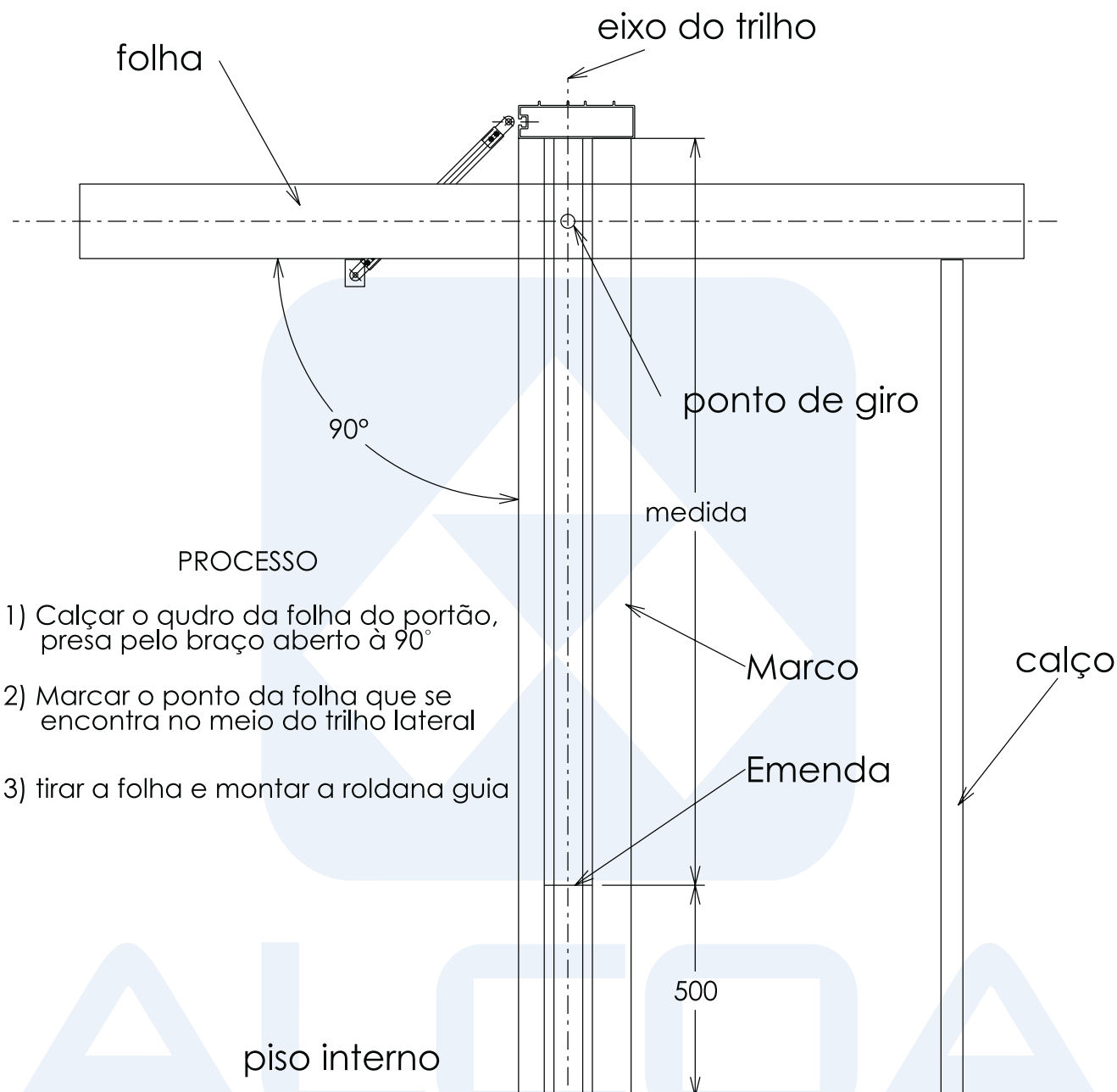
$$C = 2480 \times 0,27 = 670 \text{ (Arredondada)}$$

MEDIDA DE CORTE DO COMPLEMENTO DO BRAÇO

$$670 - 74 = 596$$



DETERMINAR O PONTO DE GIRO



PROCESSO

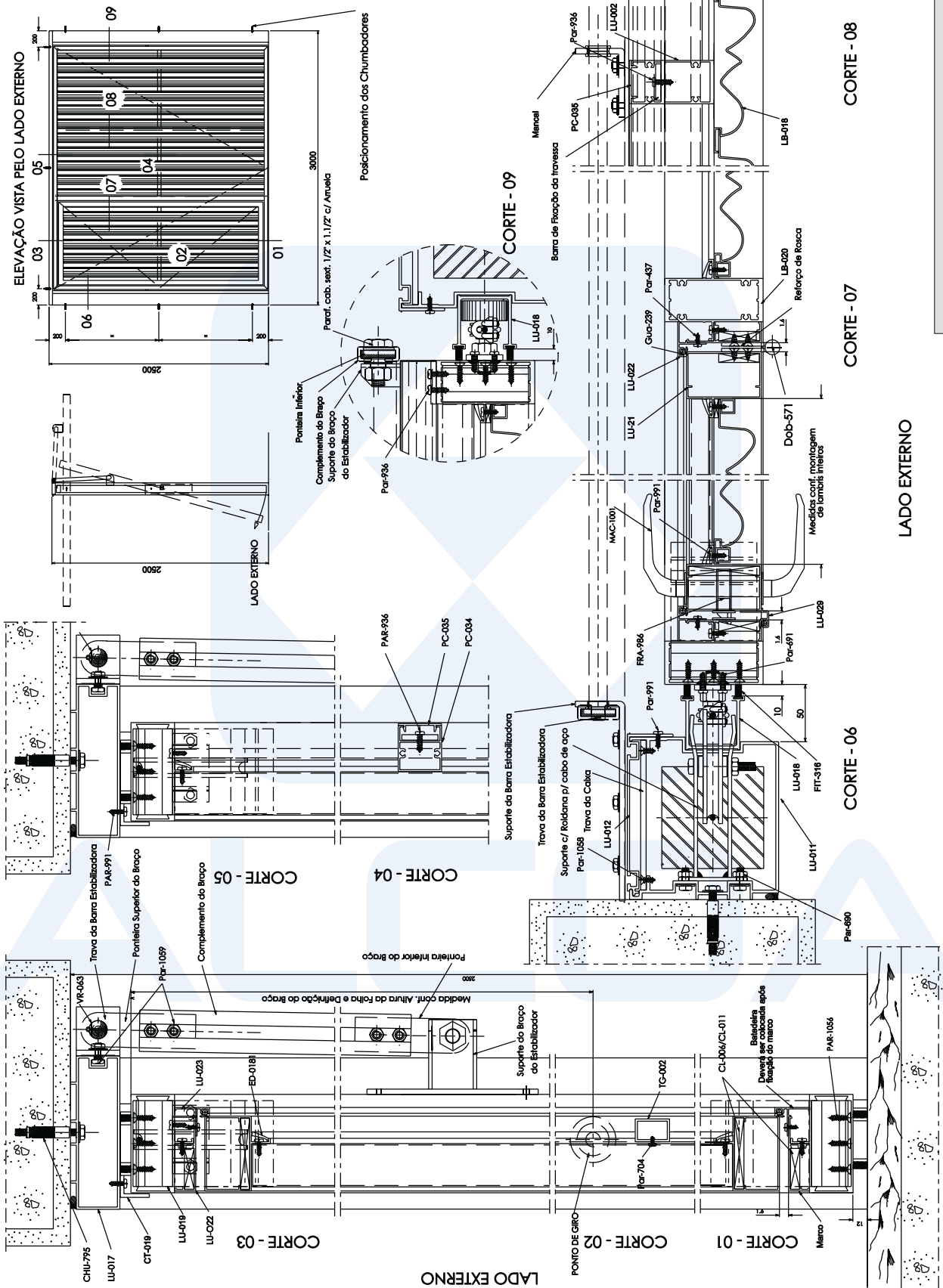
- 1) Calçar o quadro da folha do portão, presa pelo braço aberto à 90°
- 2) Marcar o ponto da folha que se encontra no meio do trilho lateral
- 3) tirar a folha e montar a roldana guia

ATENÇÃO:

Para colocação da folha, já com as roldanas guia, o trilho (LU-018) deverá ser cortado de acordo com as medidas acima.

O trilho com 500 mm, deverá ser fixado após colocação da folha com as roldanas no trilho de espera no marco

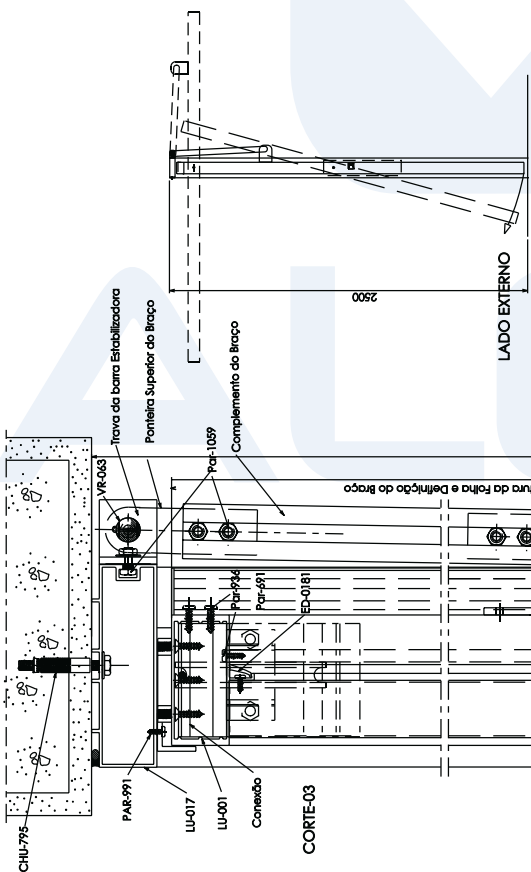
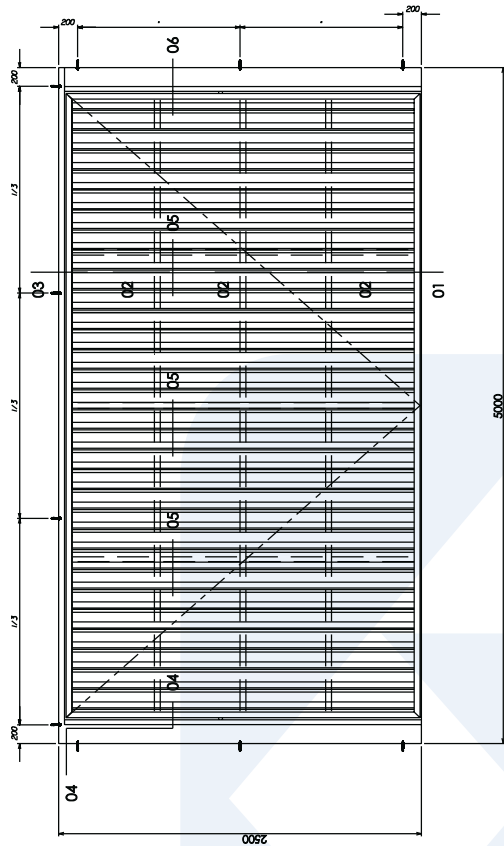
| Montagem | Página |
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| Portão de 3 metros - Bandeira | 35 |
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| Portão de 3 metros - Lambris na horizontal | 38 |
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| Portão de 5 metros - Veneziana na horizontal | 41 |
| Porta independente | 42 |



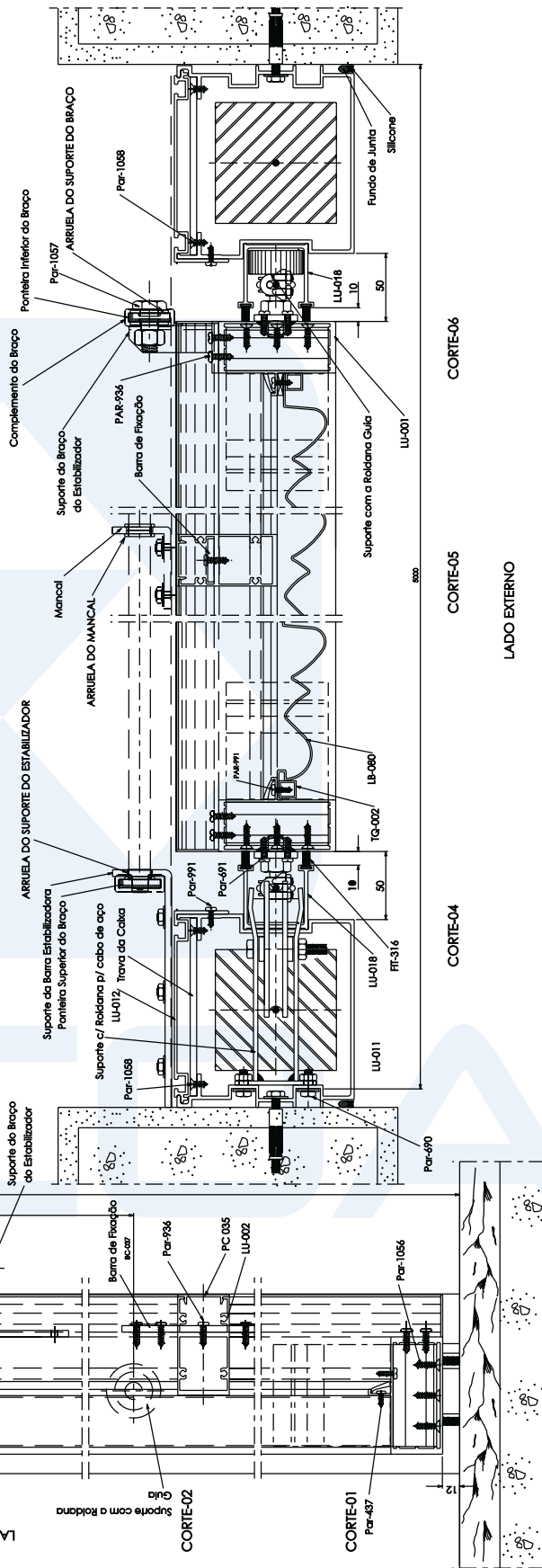
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ELEVAÇÃO VISTA PELO LADO EXTERNO



LADO EXTERNO



CORTE-06

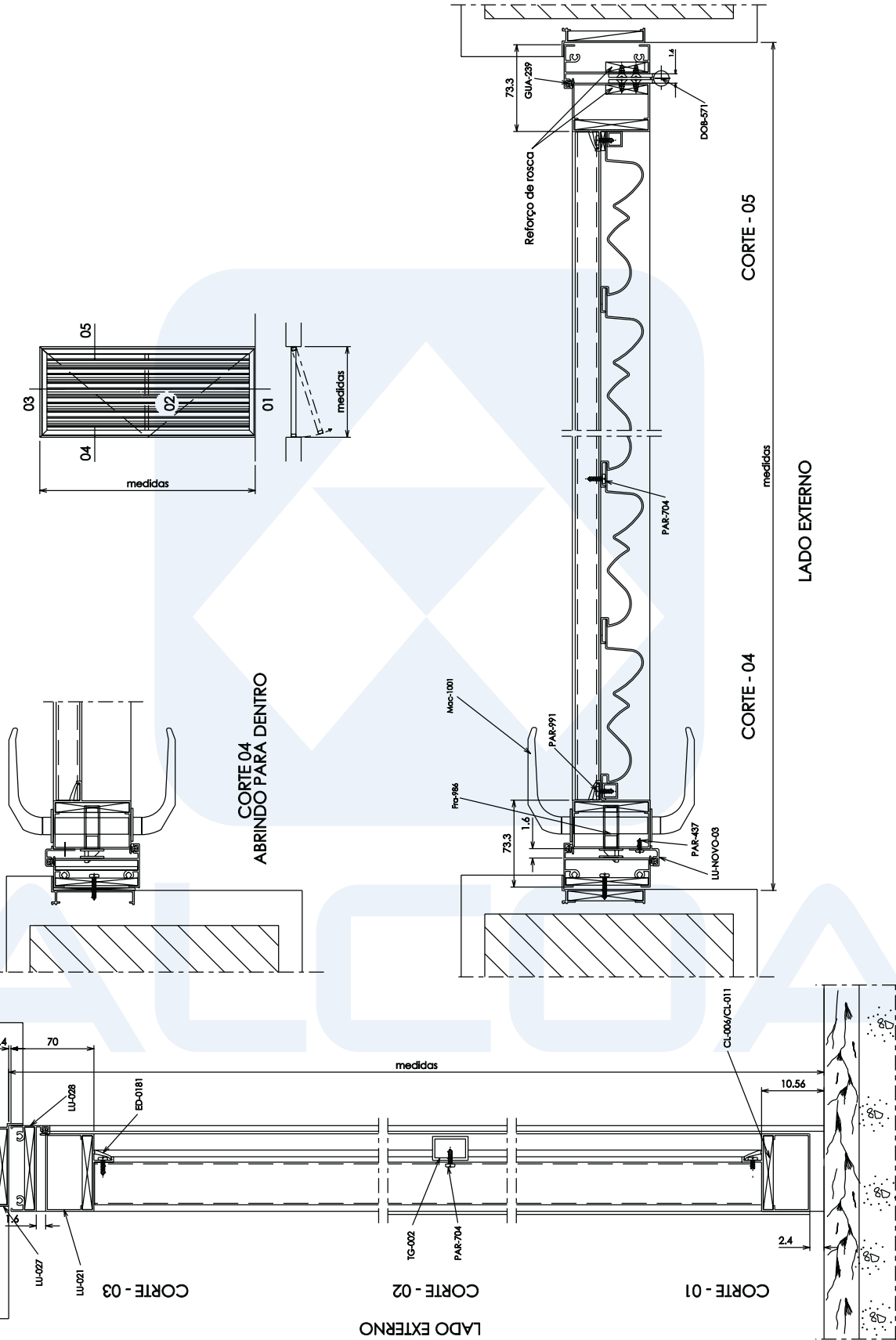
CORTE-05

CORTE-04

LADO EXTERNO

PORTÃO DE 5MT

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