



HYDRO

UNIVERSAL

PORTÃO®

Portões de alumínio versáteis e seguros



Hydro Extruded Solutions

Com sede na Noruega, a Hydro é uma empresa global, presente em toda a cadeia do alumínio e líder do segmento, contando com cerca de 35 mil colaboradores em mais de 40 países. Somos globais e locais.

Servimos nossos clientes, mas não estamos satisfeitos em somente satisfazer as demandas. Queremos resolver problemas, encontrar soluções inovadoras e exceder as expectativas – de nossos clientes, nossas comunidades locais e do mundo ao nosso redor.

Nossa presença no Brasil inclui toda a cadeia de valor: da bauxita e alumina à produção de metal primário e às soluções em extrudados que impactam o dia a dia dos brasileiros. Nossas soluções em alumínio podem ser encontradas em diversos aspectos do cotidiano, como carros, ônibus, caminhões, trens, edifícios, telefones, computadores, mobília, ar condicionado, bens de consumo e equipamentos agrícolas.

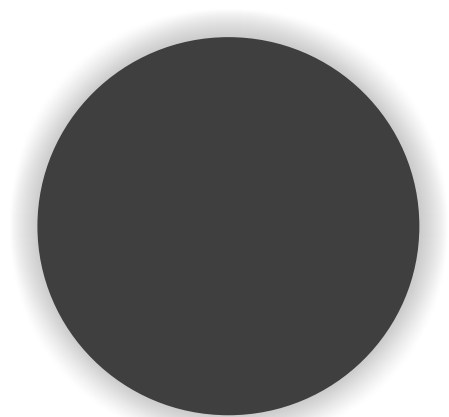
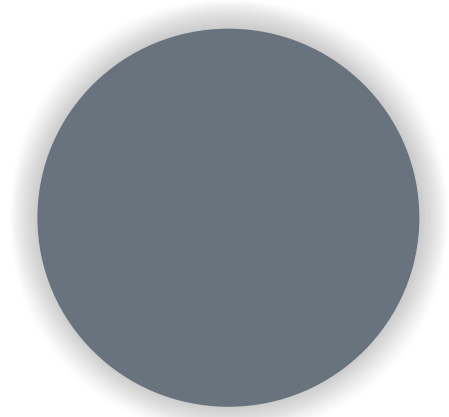
Alumínio & Cia.

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



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





DURABILIDADE, BELEZA
E SEGURANÇA.

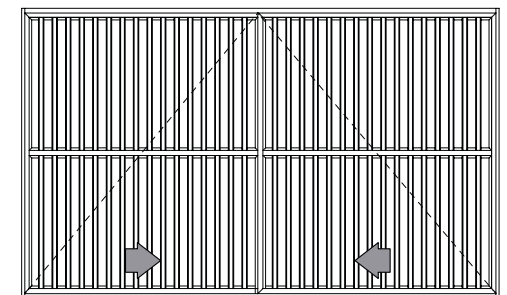
- Design arrojado;
- Várias opções de tipologias;
- Facilidade de automação;
- Deslizamento suave;
- Fechamento seguro;
- Simples manutenção;
- Acabamento anodizado ou pintura eletrostática a pó em diversas cores;
- Longa vida útil;
- 3 formas de aplicação dos perfis: horizontal, vertical ou diagonal;
- 3 versões: giro, correr e basculante.



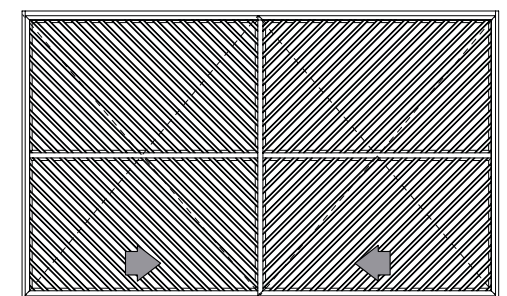
Tipologias	B-01 - B-04
Diagramas	C-01 - C-03
Perfis	D-01 - D-16
Componentes	E-01 - E-03
Usinagens	F-01 - F-05
Instruções de Montagem	G-01 - G-05
Desenho de Montagem	H-01 - H24

Portões de Correr Universal e FIT

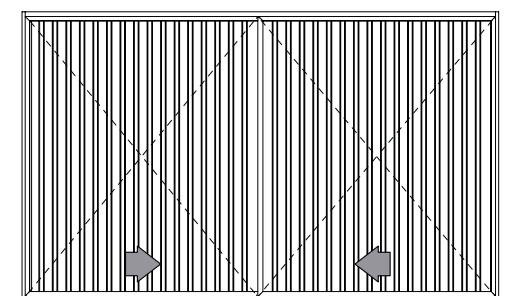
Portão com barrotes verticais
2 folhas de correr



Portão com barrotes inclinados
2 folhas de correr



Portão com lambris verticais
2 folhas de correr

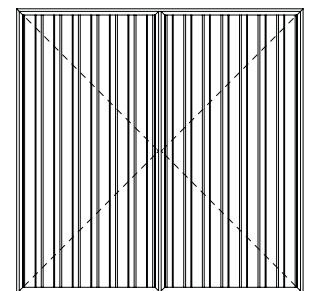


Nota: Estas tipologias poderão
ser fabricadas com portão social

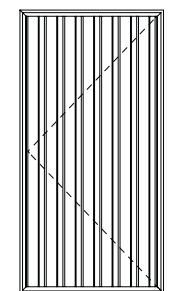


Portões de Giro Universal

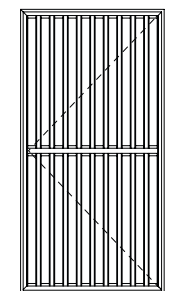
**Portão com lambris verticais
2 folhas de giro**



**Portão com lambris verticais
1 folha de giro**

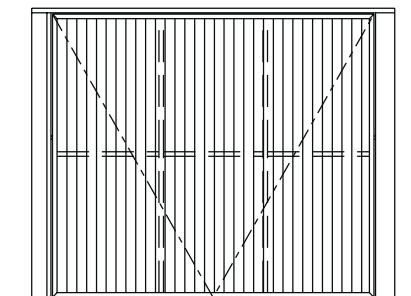
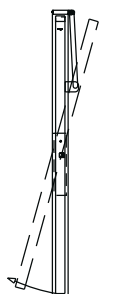


**Portão com barrotes verticais
1 folha de giro**

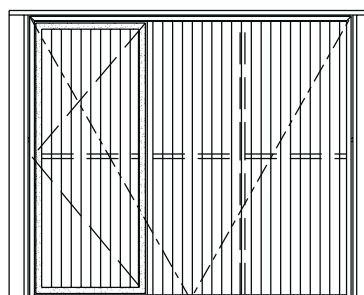
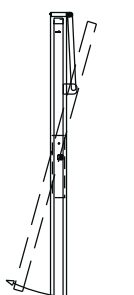


Portão Basculante

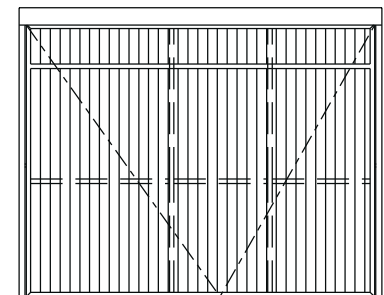
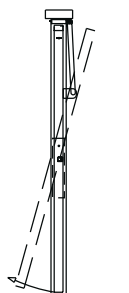
Basculante - Folha normal



Basculante - Folha com porta social

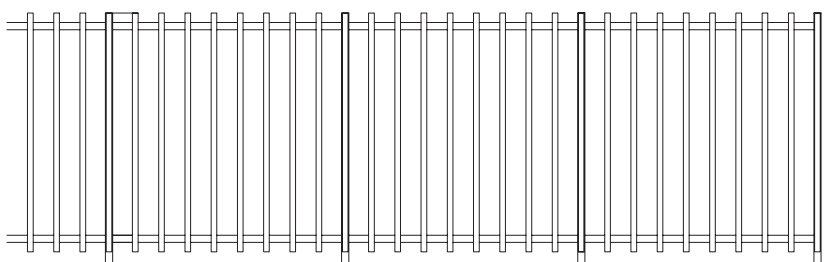


Basculante - Folha com bandeira

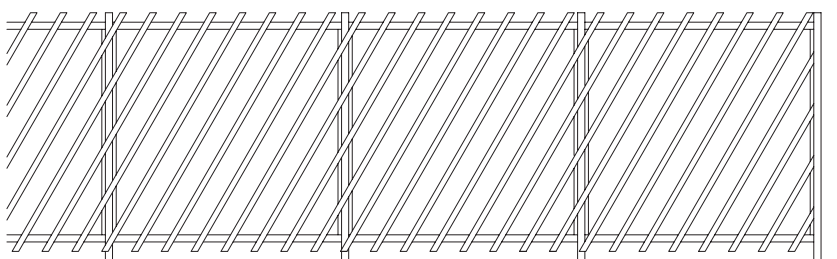


Grade Universal

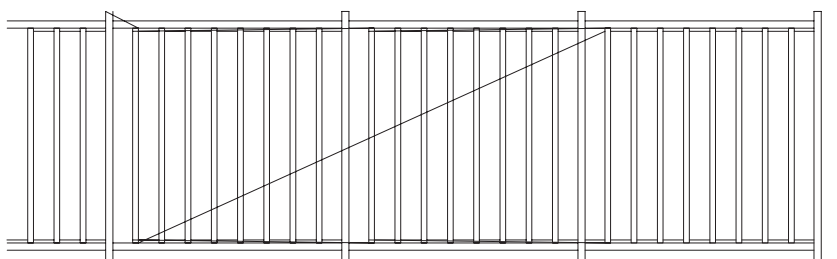
Grade com barrotes verticais



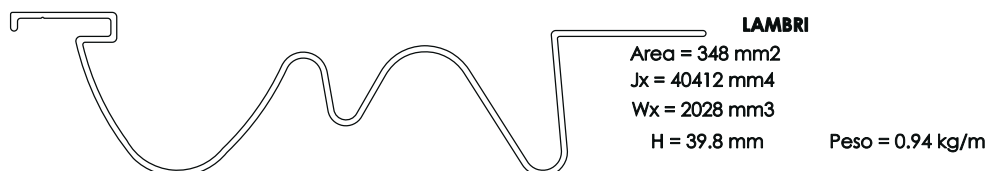
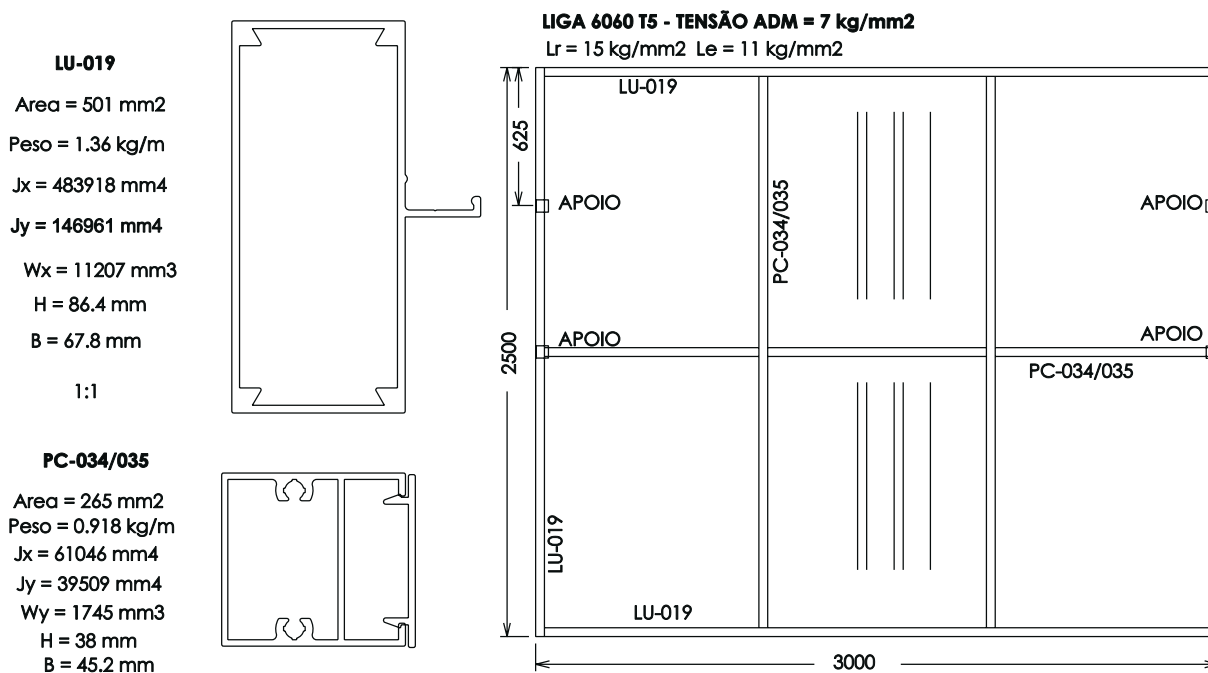
Grade com barrotes inclinados



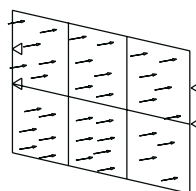
Grade com barrotes verticais entre travessas



Portão Basculante 3 Metros

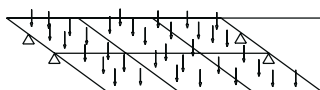


1) PRESSÃO DE ENSAIO = 50 kg/m² PORTAO FECHADO



2) PESO PRÓPRIO - PORTÃO ABERTO

PESO PRÓPRIO = 13 kg/m²



Portão Basculante 5 Metros

LU-001

Area = 629 mm²

Peso = 1.7 kg/m

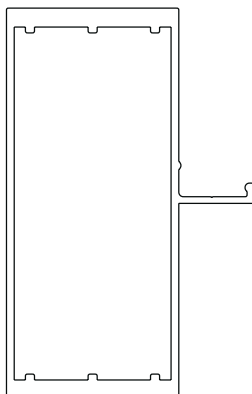
Jx = 692255 mm⁴

Jy = 151629 mm⁴

Wx = 16042 mm³

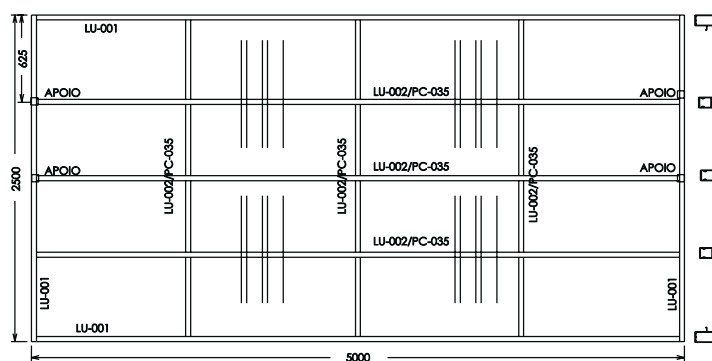
H = 86.3 mm

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

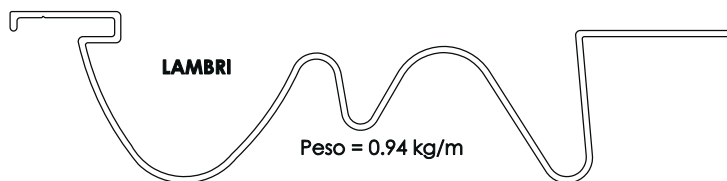
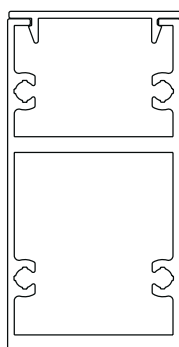
Jx = 291303 mm⁴

Jy = 120542 mm⁴

Wx = 6994 mm³

H = 83.3 mm

B = 38 mm



LAMBRI

Peso = 0.94 kg/m

Area = 348 mm²

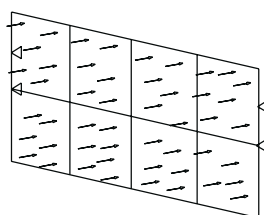
Jx = 40412 mm⁴

Wx = 2028 mm³

H = 39.8 mm

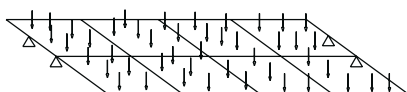
1) PRESSÃO DE ENSAIO = 50 kg/m²

PORTÃO FECHADO

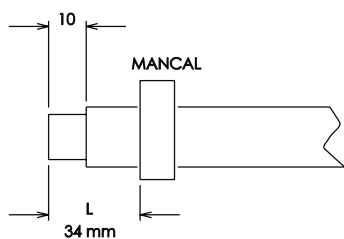
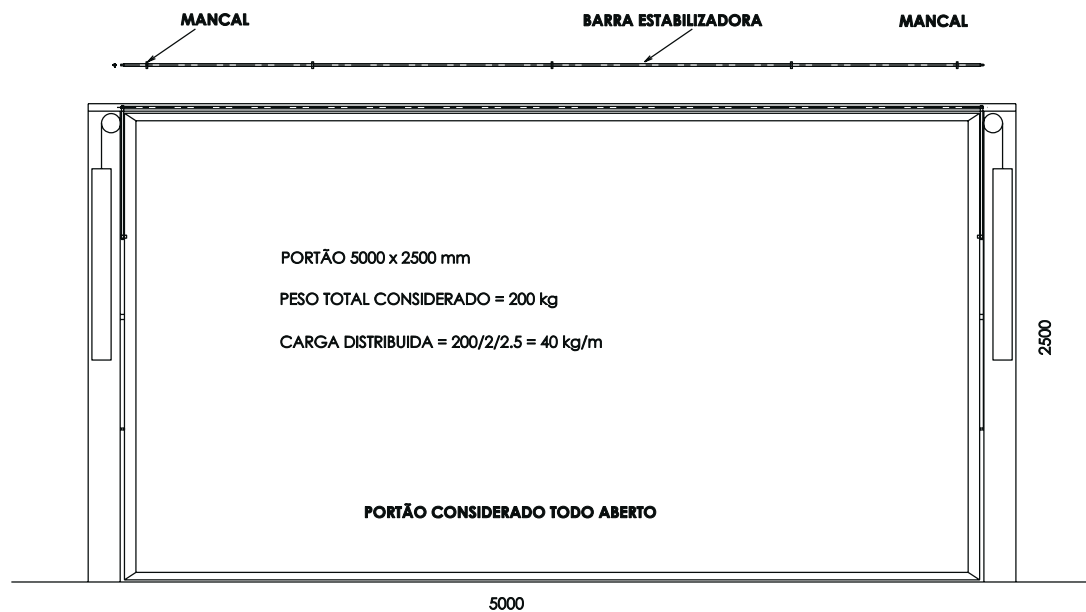


2) PESO PRÓPRIO - PORTÃO ABERTO

PESO PRÓPRIO = 13 kg/m²



Barra Estabilizadora



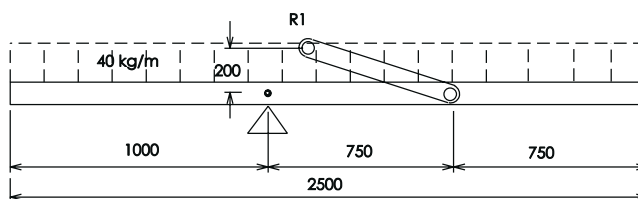
$$M = 115 \times L$$

$$W = 383 \text{ mm}^3$$

$$\text{TENSÃO} = \frac{115 \times L = 10}{383}$$

$$L \text{ MÁXIMO} = 34 \text{ mm}$$

$$\text{TENSÃO CIS} = 115/196 = 0.59 \text{ kg/mm}^2$$



REAÇÃO MÁXIMA EM R1 = 115 kg

BARRA ESTABILIZADORA



$$\text{Area} = 196 \text{ mm}^2$$

$$J = 3060 \text{ mm}^4$$

$$Jt = 6118 \text{ mm}^4$$

$$W = 383 \text{ mm}^3$$

LIGA 6063 T6

$$Lr = 205 \text{ MPa} \quad Le = 170 \text{ MPa} \quad Lcis = 125 \text{ MPa}$$

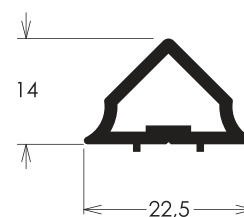
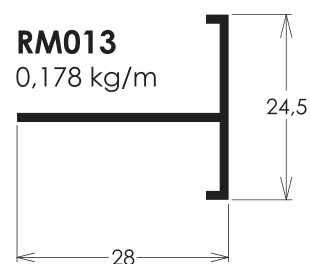
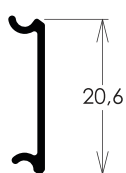
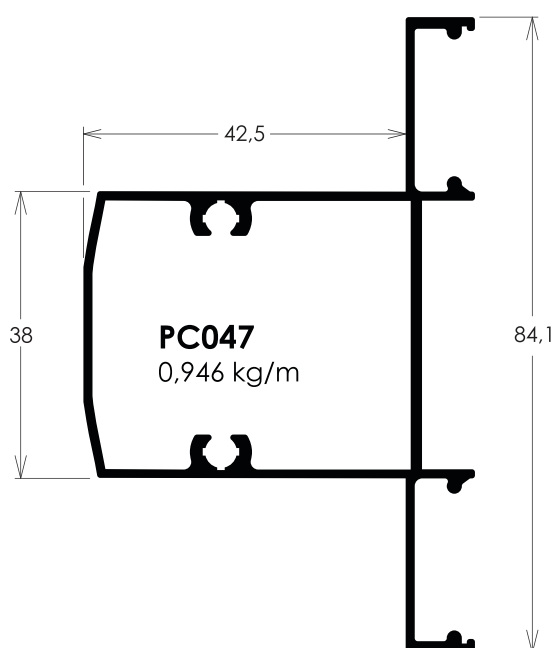
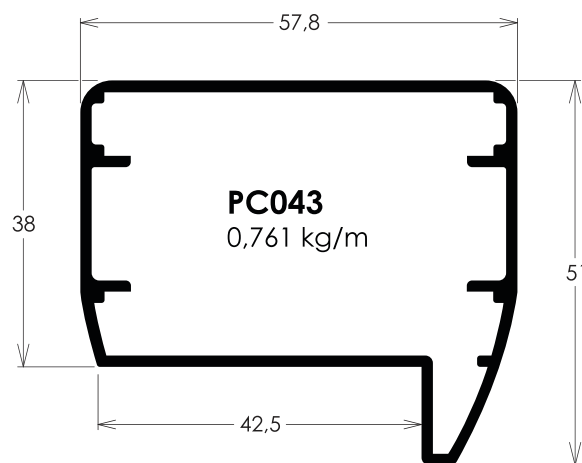
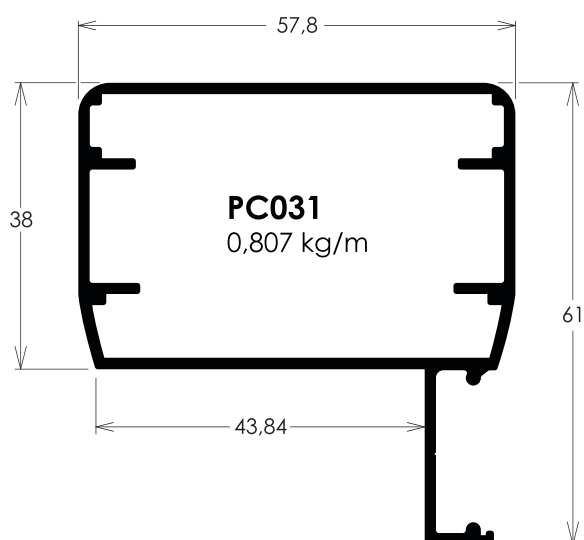
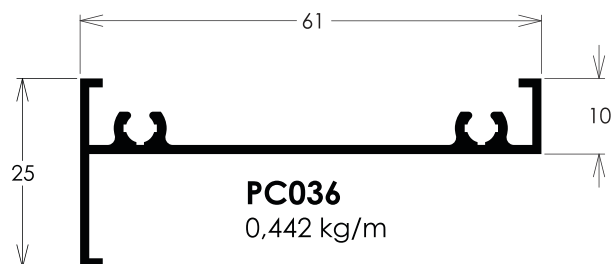
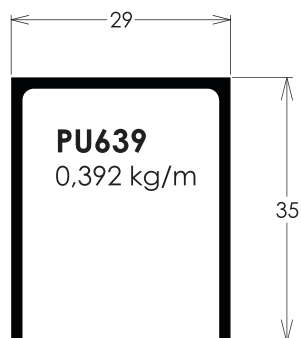
$$\text{TENSÃO ADM} = 10 \text{ kg/mm}^2$$



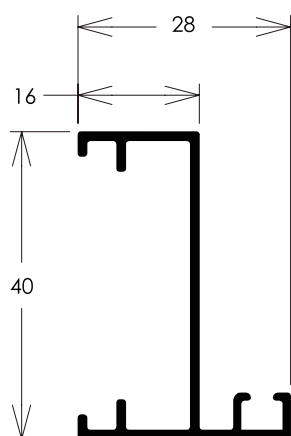
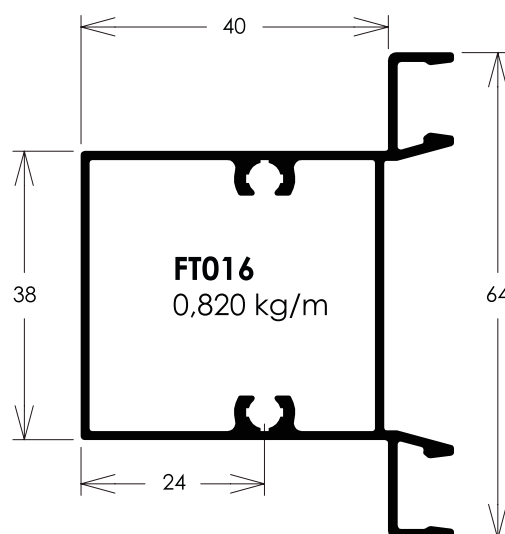
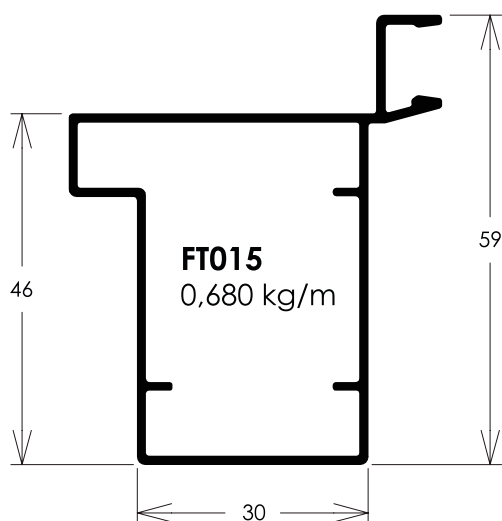
Cód.	Pág.
30044	D-01-D-02-D-03
CB296	D-02
CL006	D-16
CL009	D-16
CL010	D-16
CL011	D-16
CM175	D-06
FT013	D-02
FT014	D-02
FT015	D-02
FT016	D-02
FT017	D-02
IN044	D-03
IN205	D-15
LB038	D-08
LB050	D-08
LB071	D-08
LB072	D-09
LB073	D-09
LB074	D-09
LB075	D-10
LB076	D-10
LB077	D-10
LB079	D-11
LB080	D-11
LB081	D-11
LB082	D-12
LB088	D-12
LB089	D-12
LU001	D-05
LU002	D-07
LU011	D-06
LU012	D-06
LU017	D-05
LU018	D-07
LU019	D-05
LU020	D-05
LU021	D-07
LU022	D-07
LU023	D-07

Cód.	Pág.
LU027	D-07
LU028	D-05
LU029	D-05
LU030	D-13
LU031	D-13
LU032	D-13
LU033	D-14
LU035	D-07
LU067	D-14
LU072	D-14
LU073	D-15
LU074	D-15
LU083	D-15
PC027	D-03
PC031	D-01
PC032	D-01
PC032	D-04
PC033	D-16
PC034	D-04
PC034	D-07
PC035	D-04
PC035	D-07
PC036	D-01
PC037	D-04
PC039	D-04
PC040	D-04
PC041	D-16
PC042	D-16
PC043	D-01
PC044	D-16
PC045	D-04
PC047	D-01
PC063	D-03
PC064	D-03
PC065	D-03
PC639	D-03
PU639	D-01
PU639	D-02
RM013	D-01
RM013	D-03

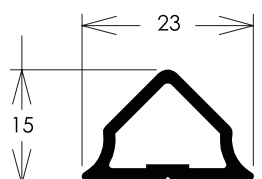
PORTÕES DE CORRER UNIVERSAL



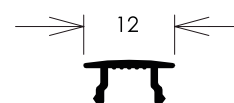
PORTÕES FIT



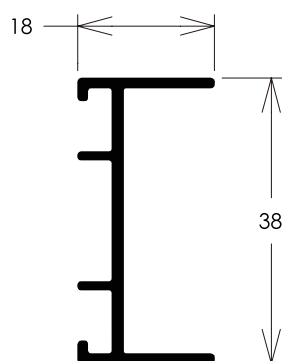
FT014
0,338 kg/m



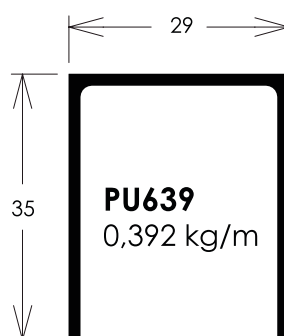
30044
0,242 kg/m



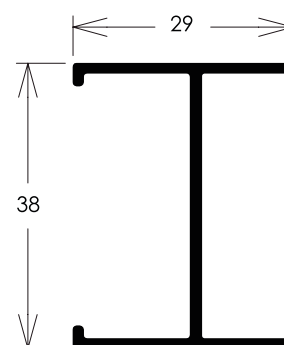
CB296
0,056 kg/m



FT017
0,307 kg/m

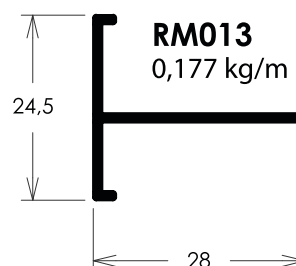
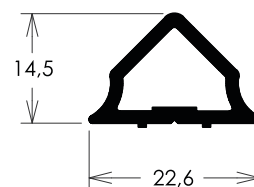
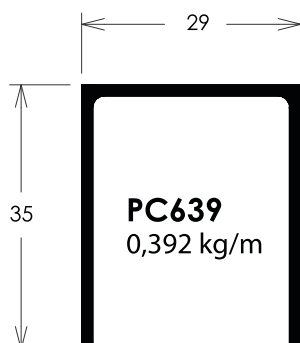
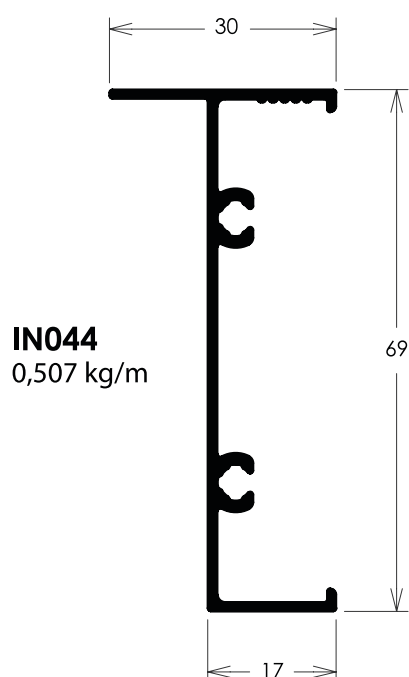
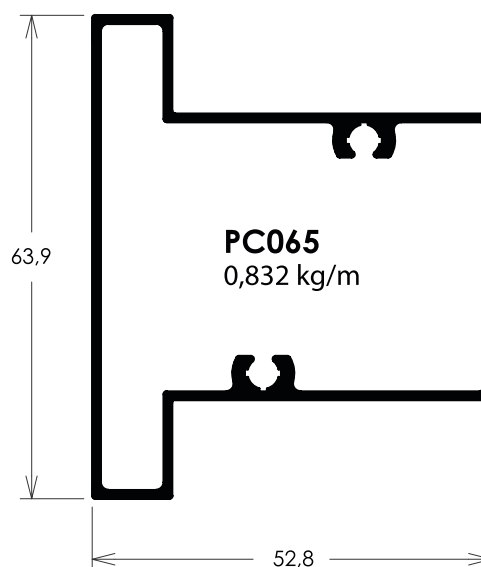
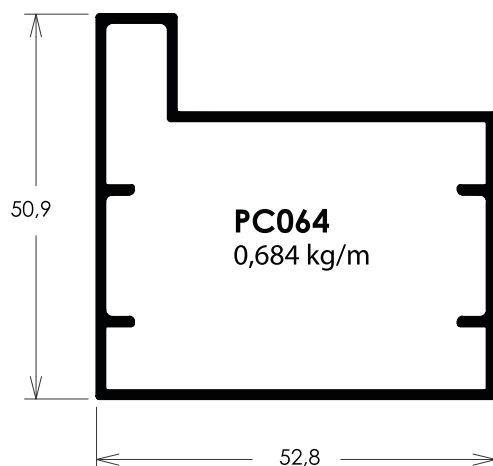
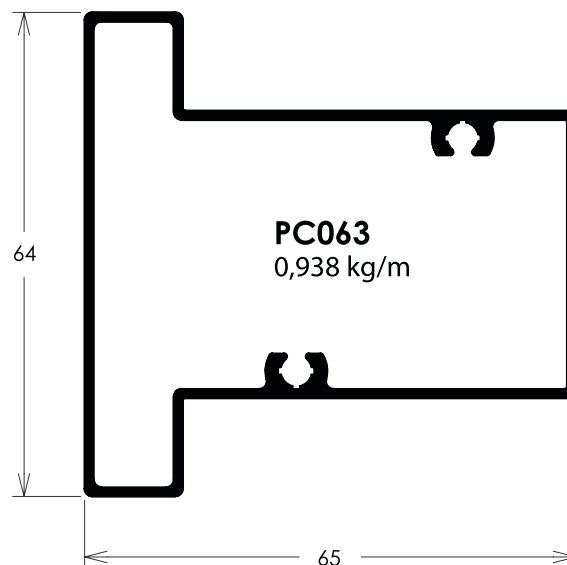
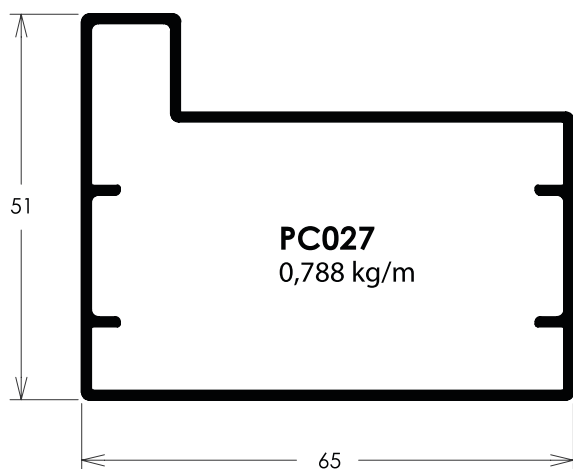


PU639
0,392 kg/m

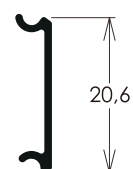
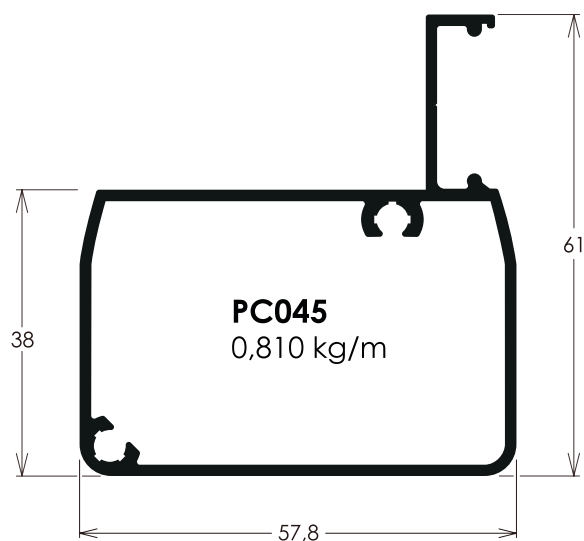
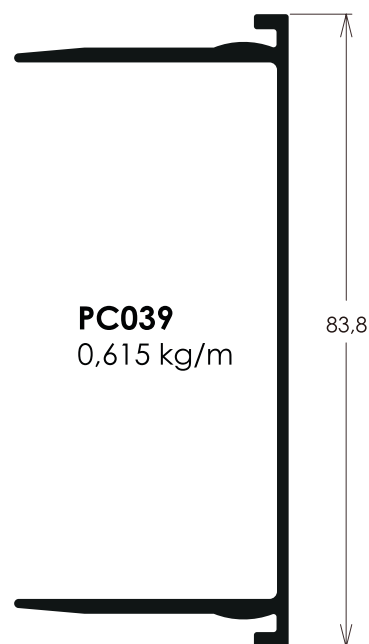
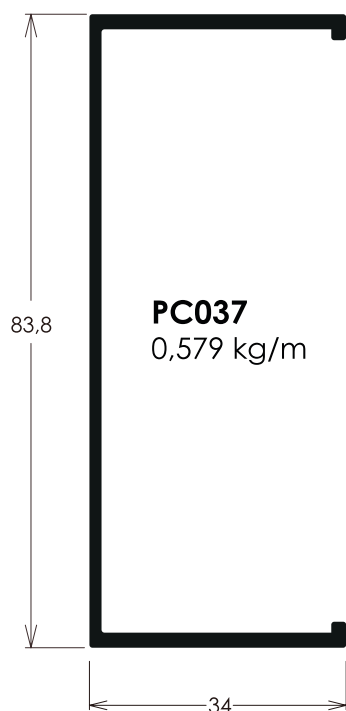


FT013
0,362 kg/m

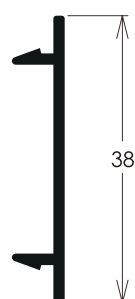
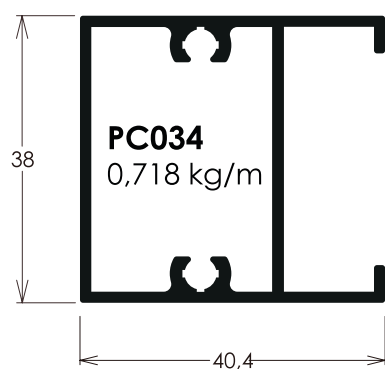
PORTÕES DIVERSOS



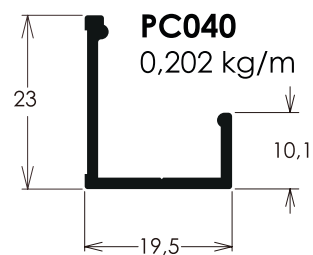
GRADES



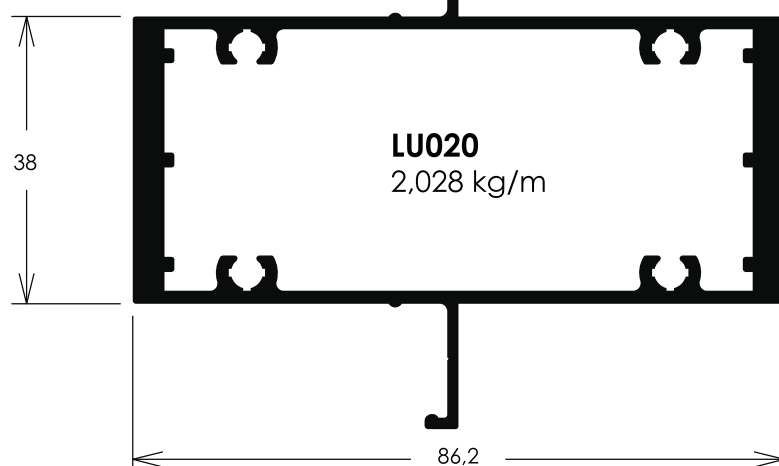
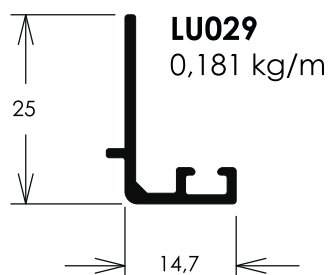
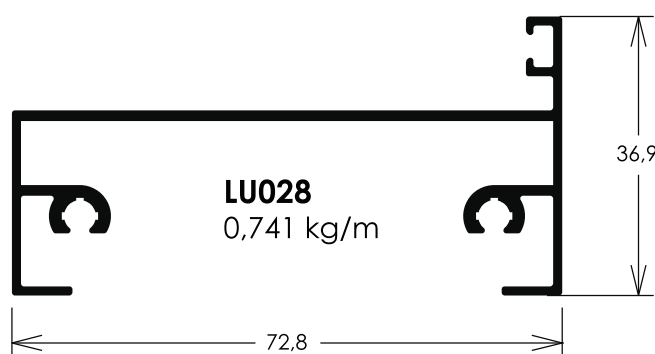
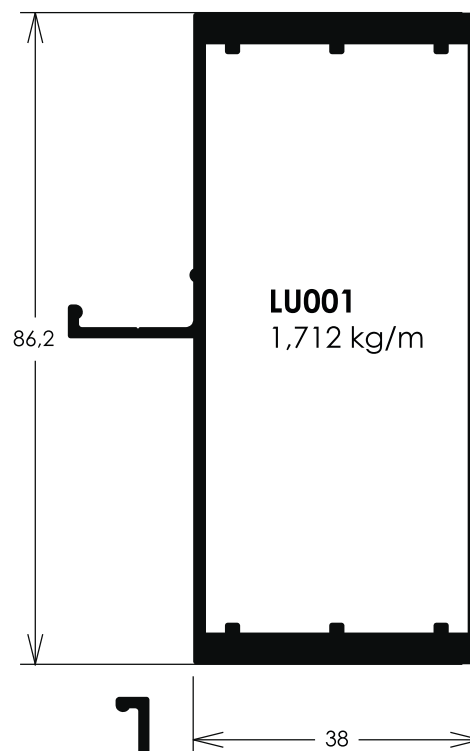
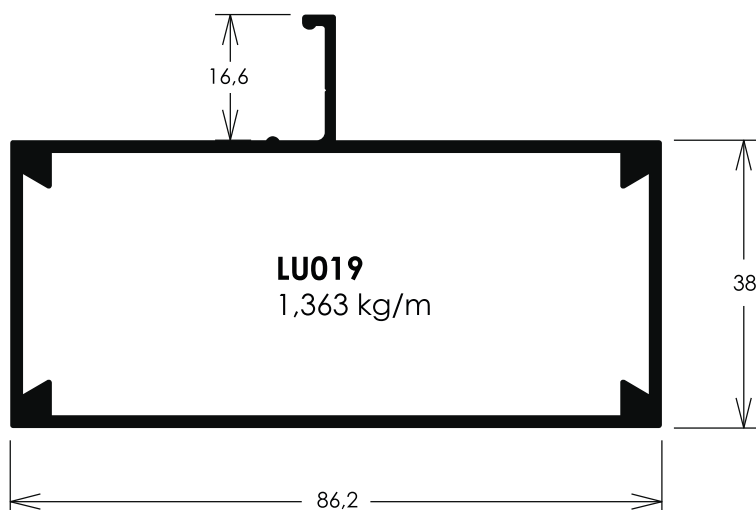
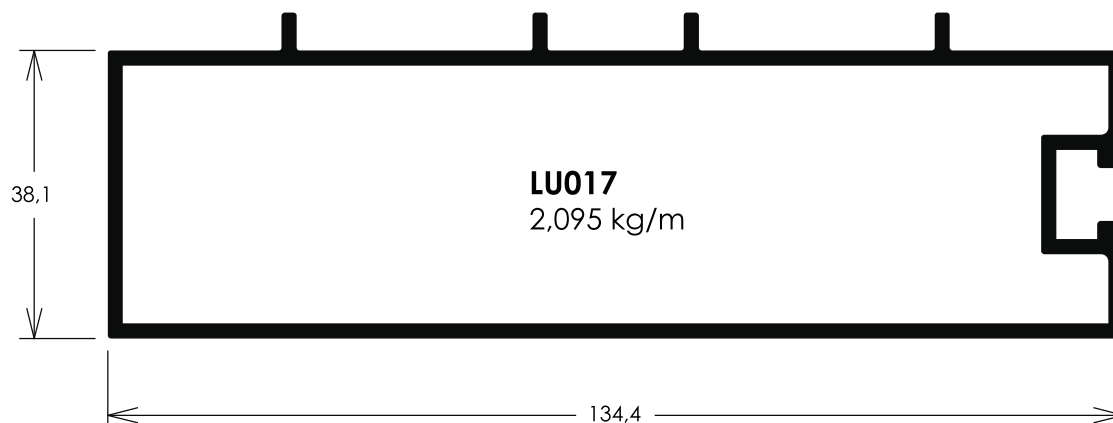
PC032
0,080 kg/m



PC035
0,199 kg/m

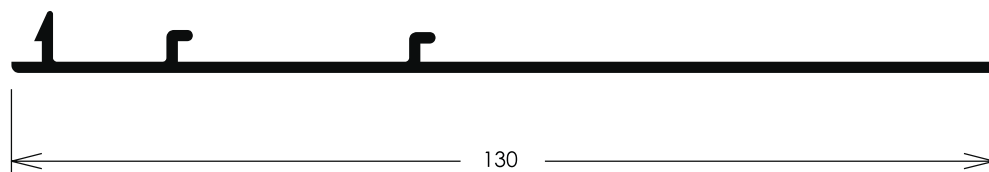


PORTÕES BASCULANTES



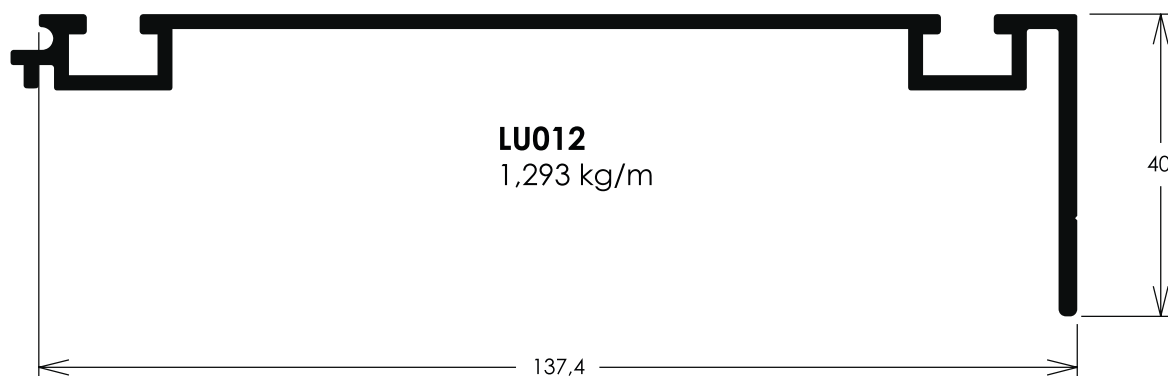
CM175

0,602 kg/m



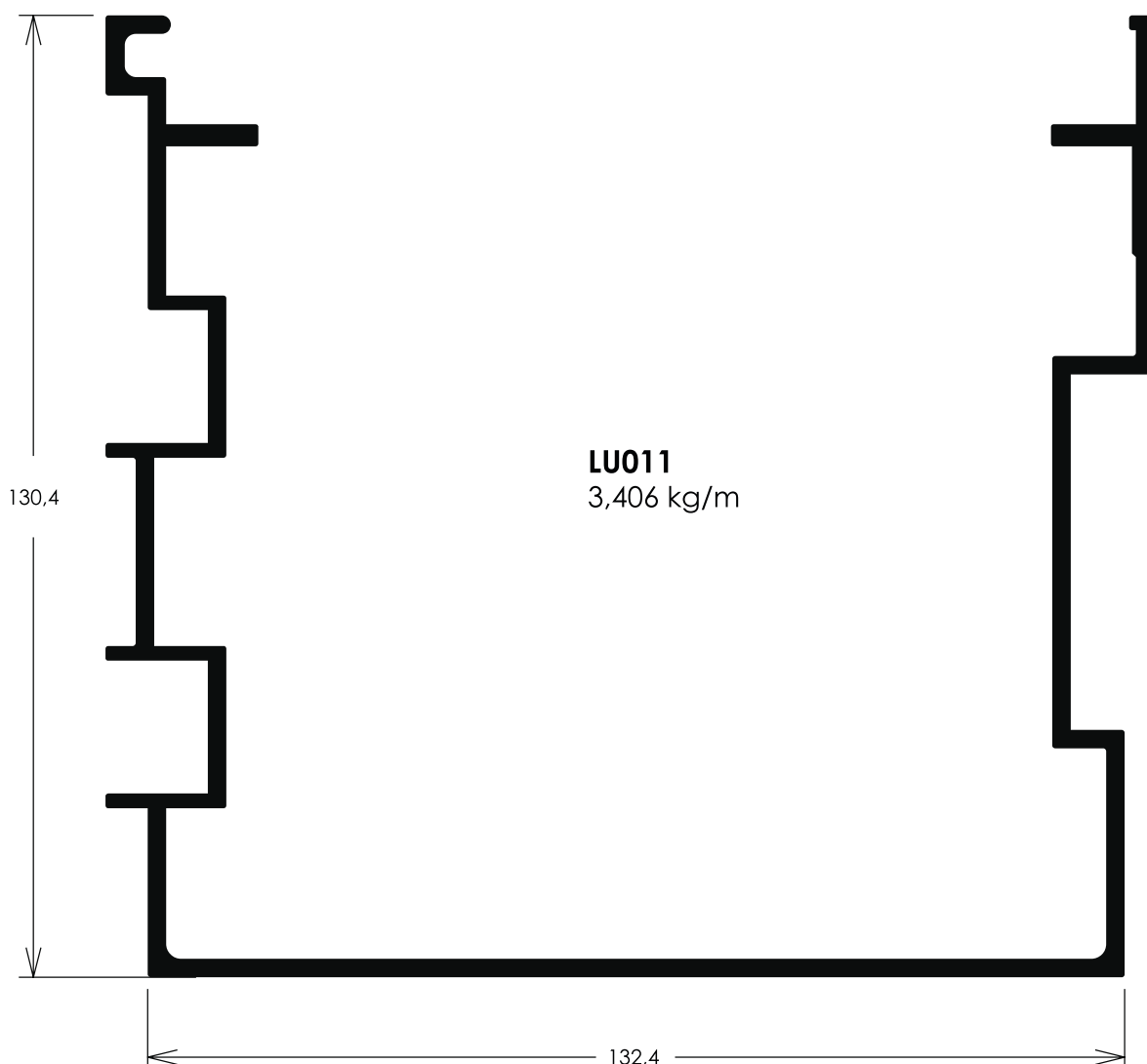
LU012

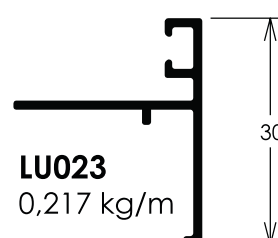
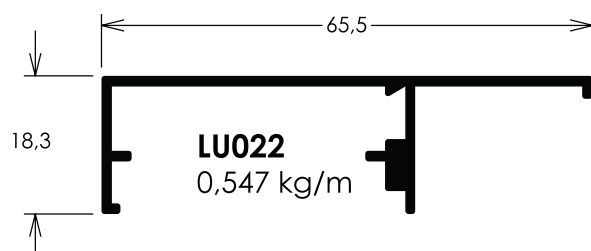
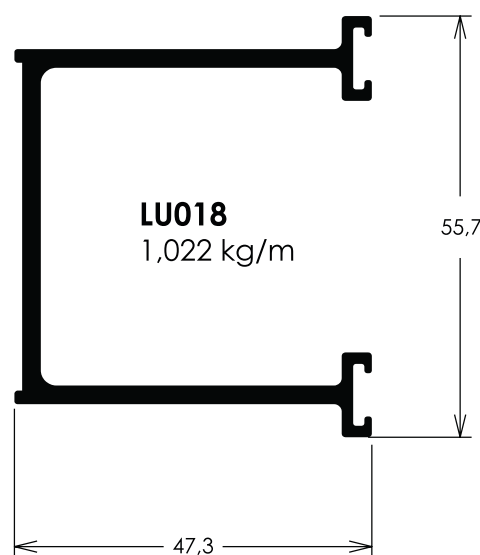
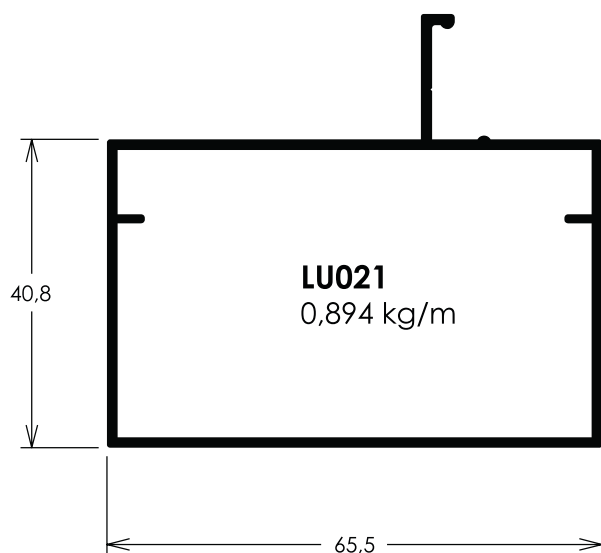
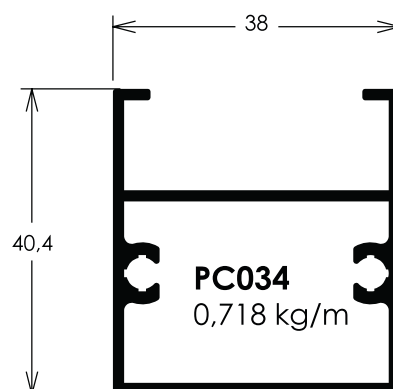
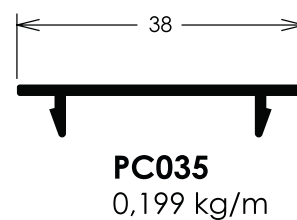
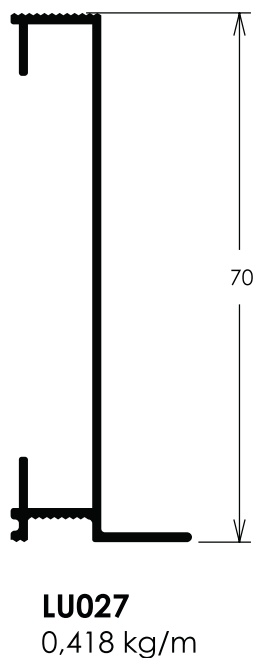
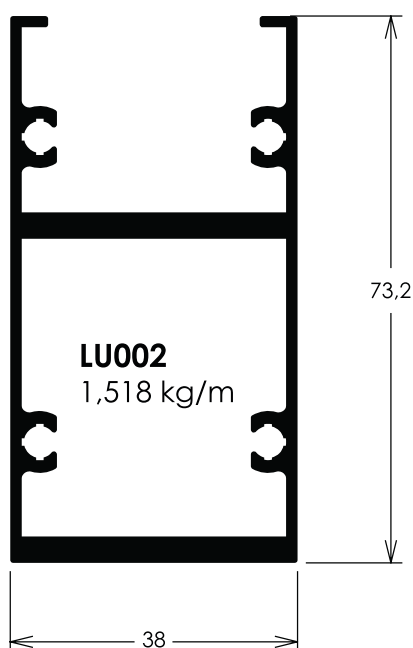
1,293 kg/m



LU011

3,406 kg/m

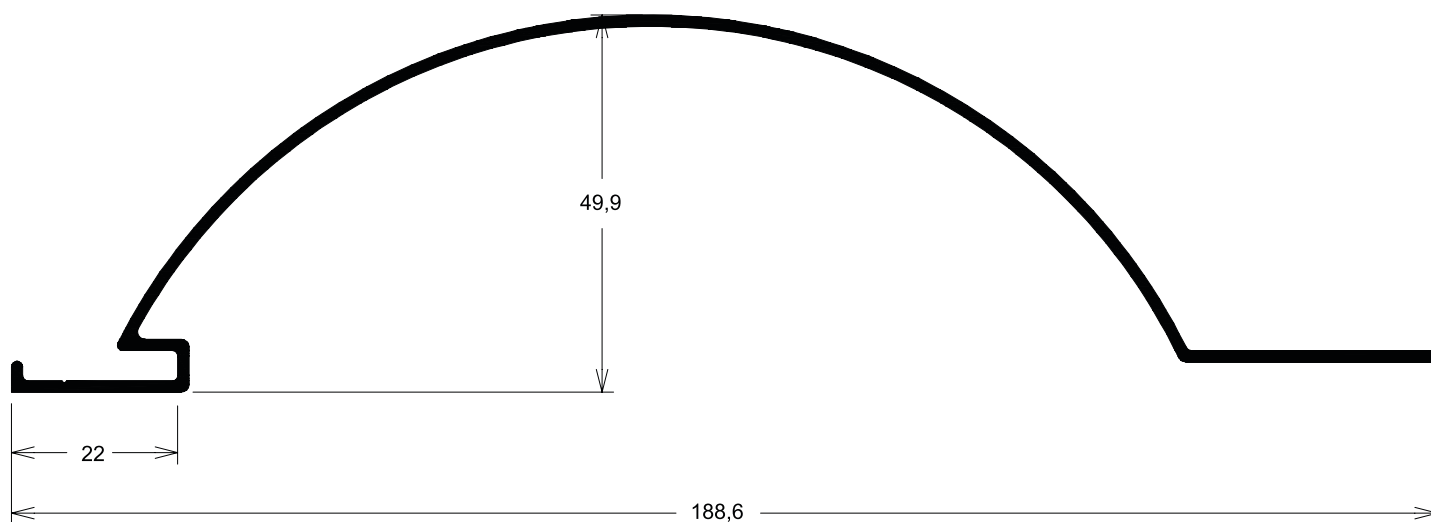




LAMBRIS

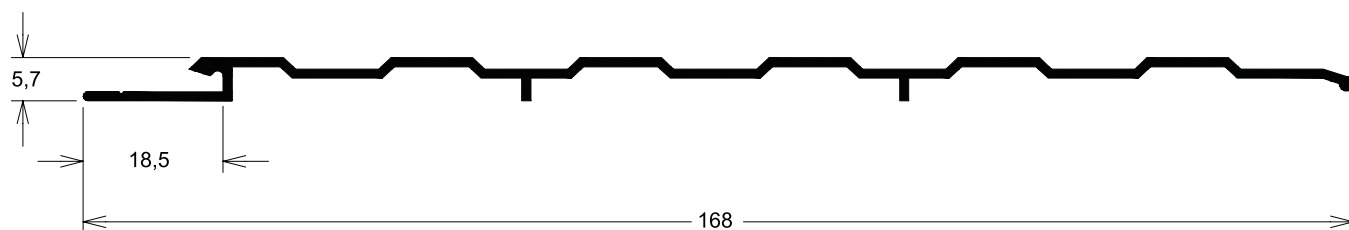
LB038

1,001 kg/m



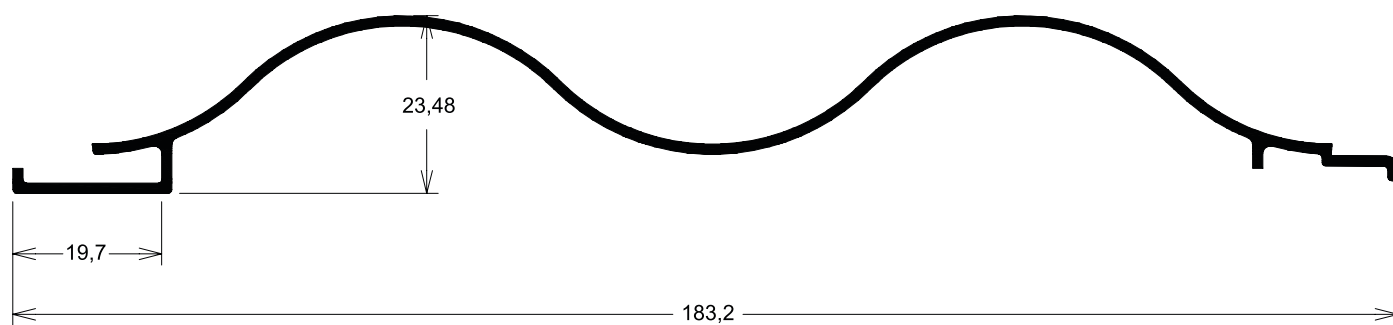
LB050

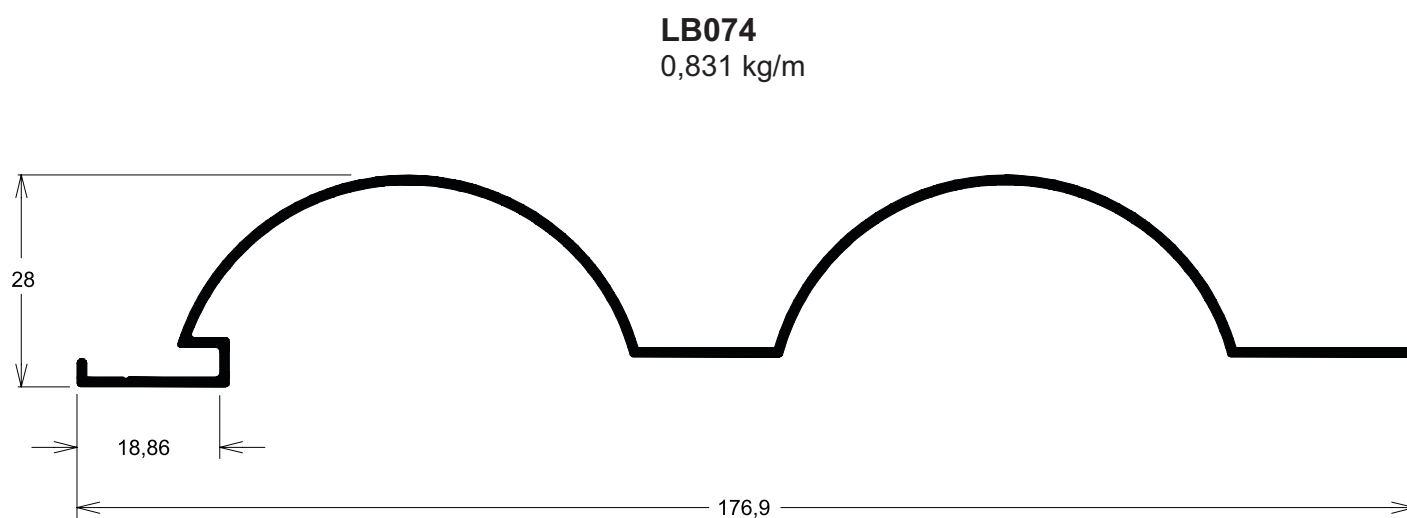
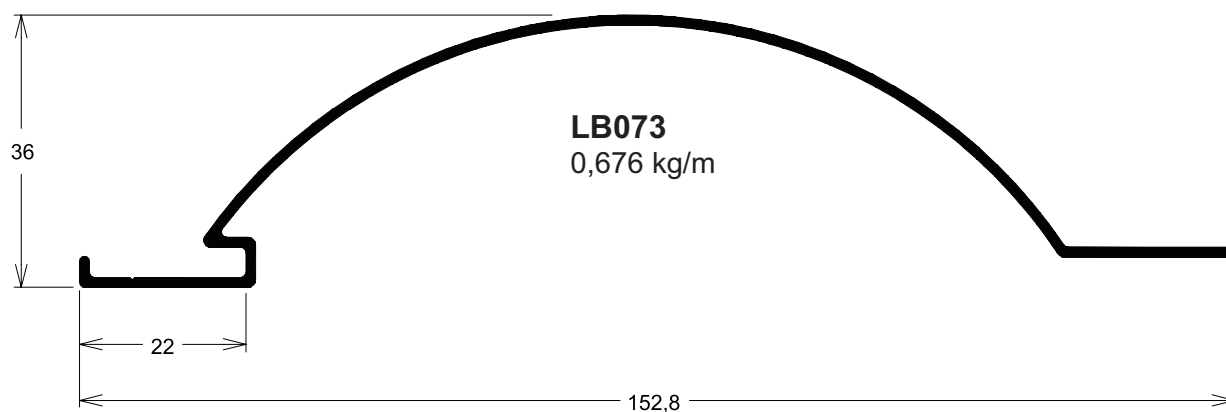
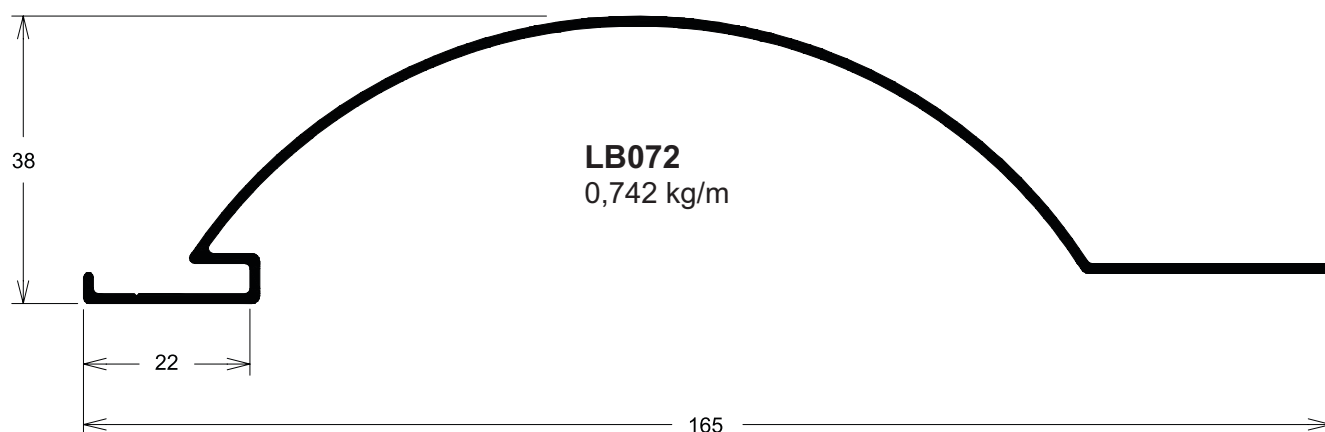
0,624 kg/m



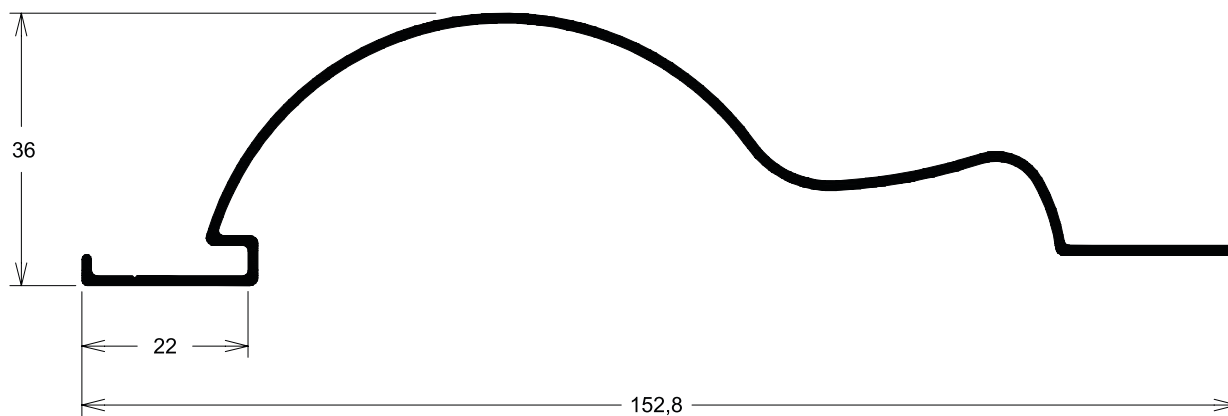
LB071

0,830 kg/m

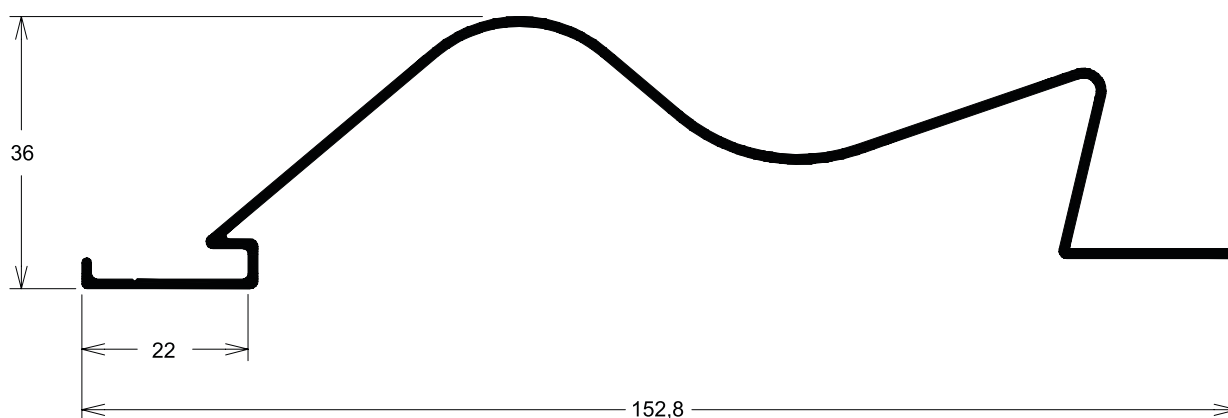




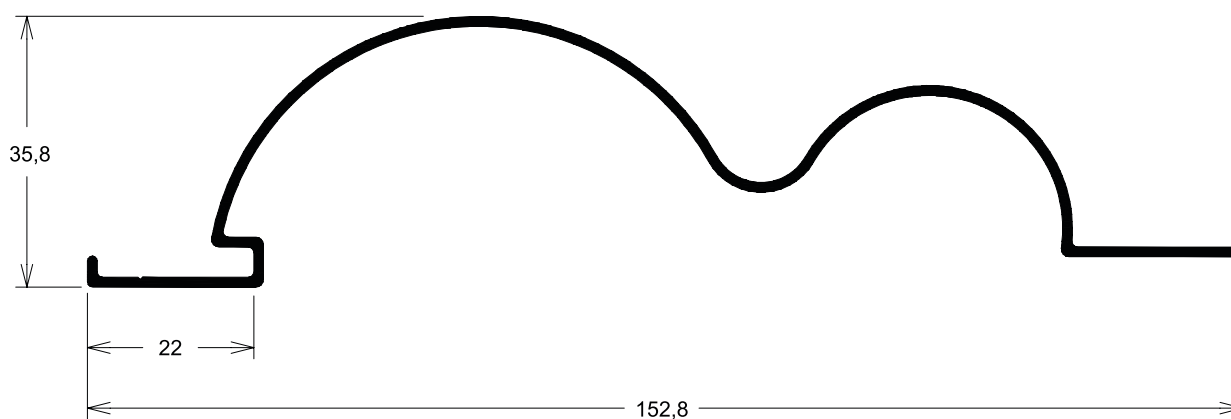
LB075
0,706 kg/m



LB076
0,766 kg/m

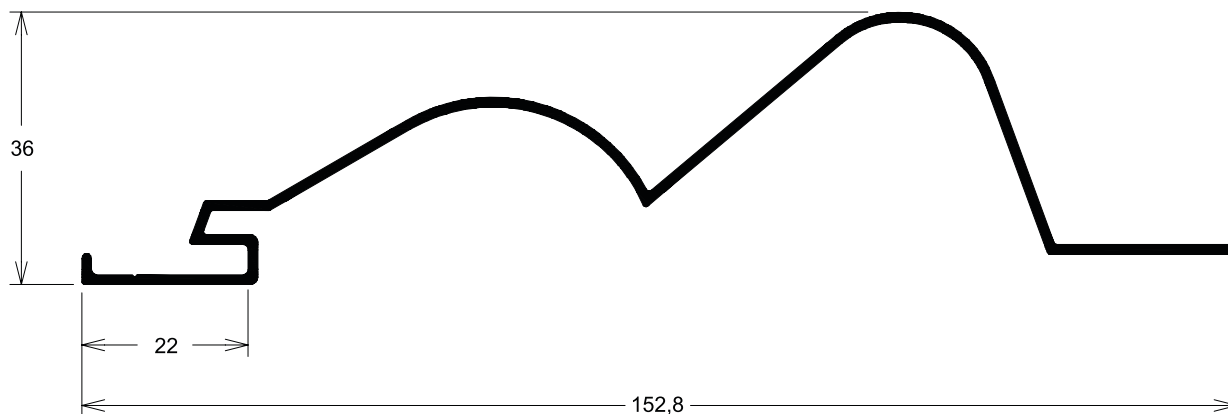


LB077
0,749 kg/m



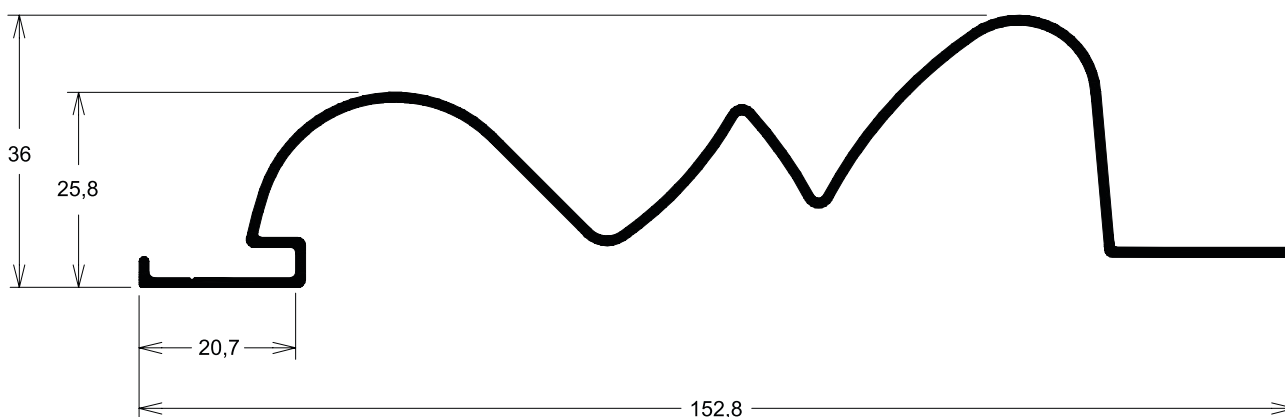
LB079

0,758 kg/m



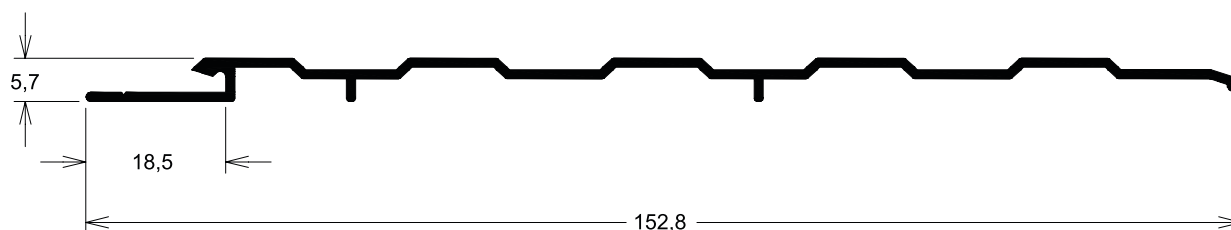
LB080

0,845 kg/m



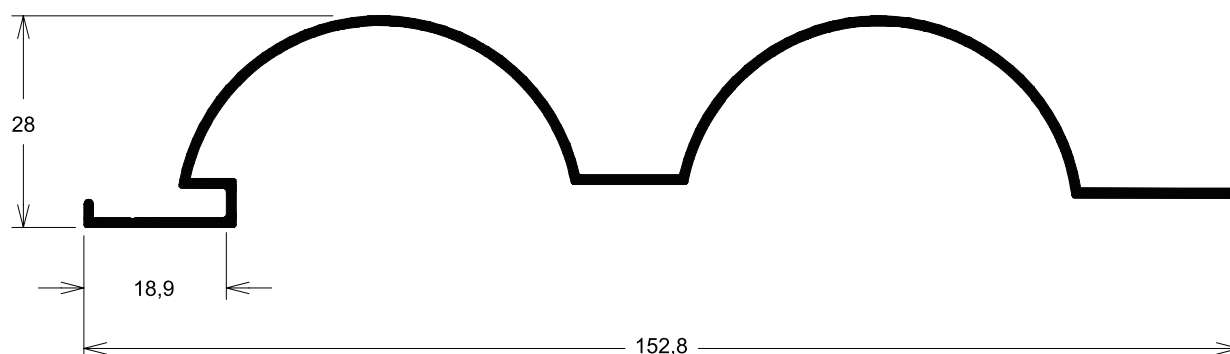
LB081

0,570 kg/m



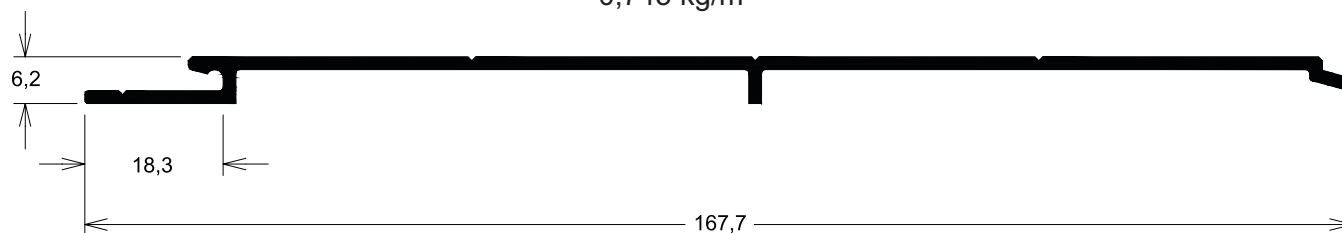
LB082

0,758 kg/m



LB088

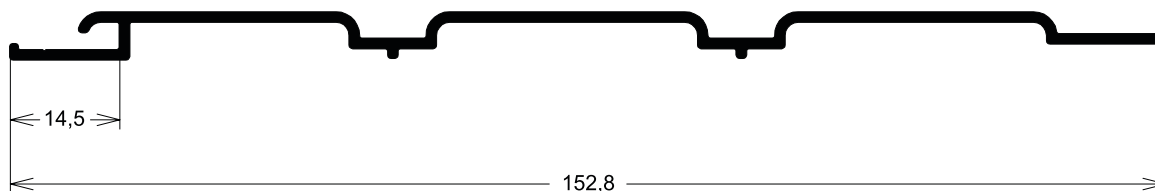
0,745 kg/m



Nota: Este perfil substitui o LB036

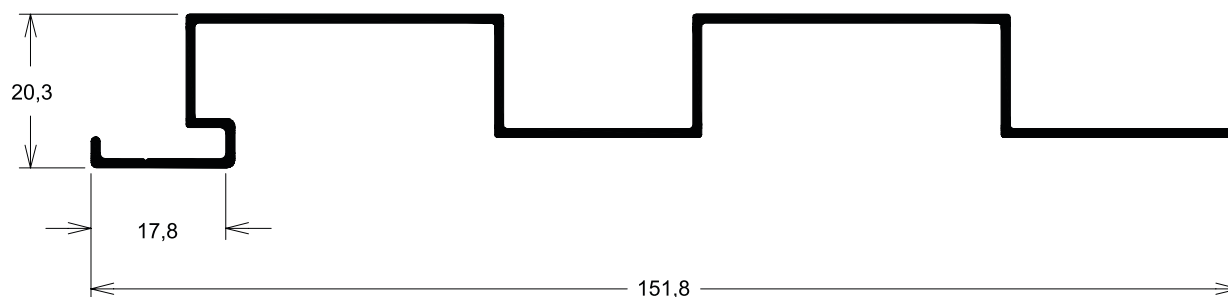
LB089

0,581 kg/m



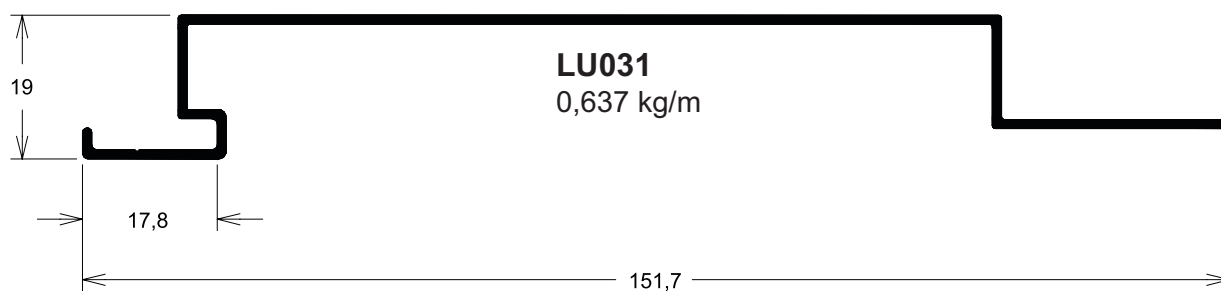
LU030

0,745 kg/m



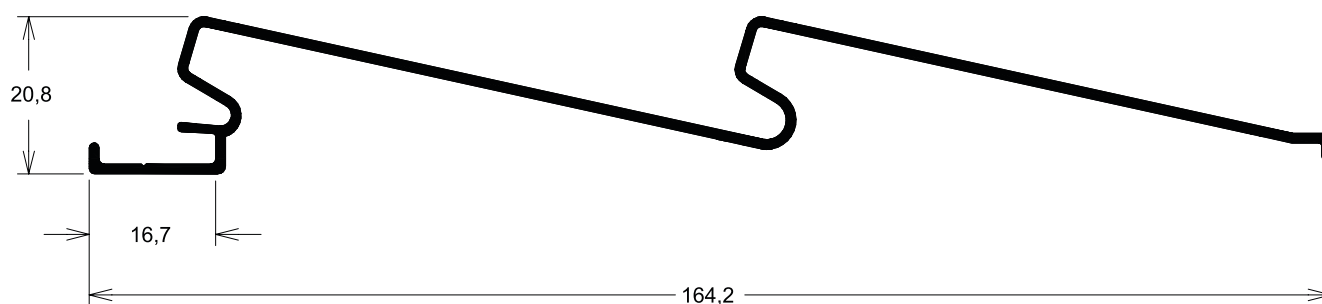
LU031

0,637 kg/m



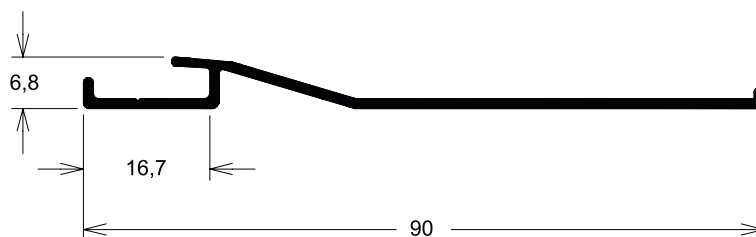
LU032

0,800 kg/m



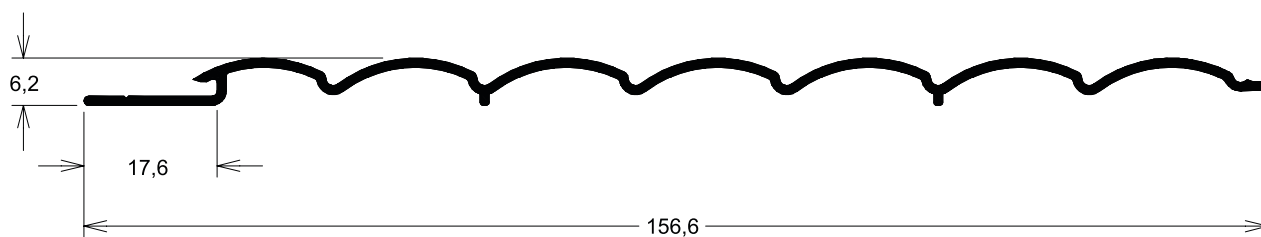
LU033

0,033 kg/m



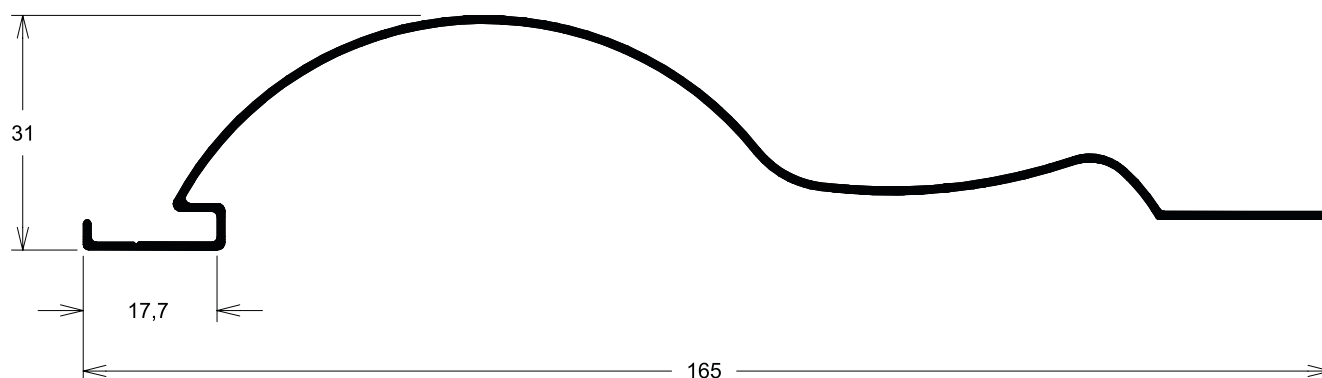
LU067

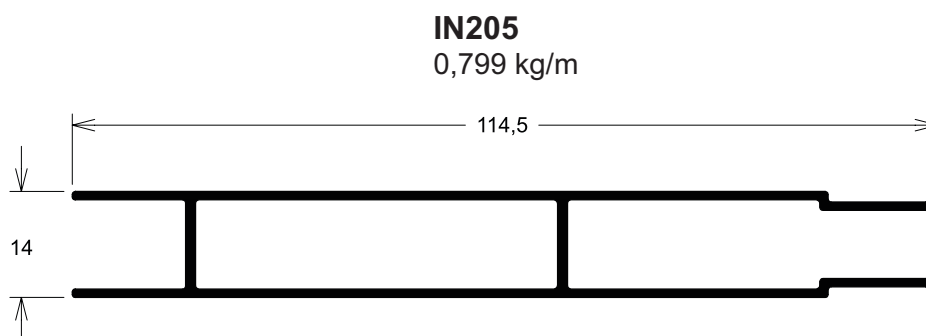
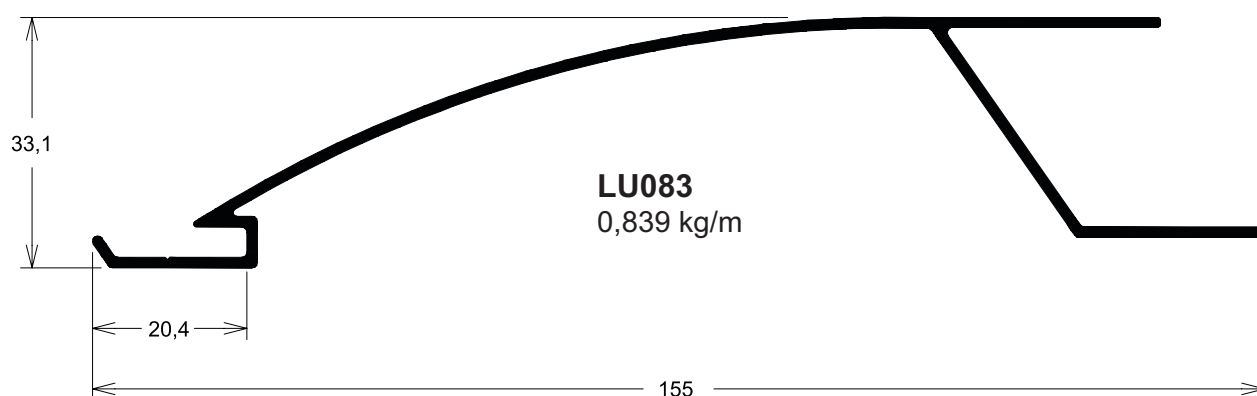
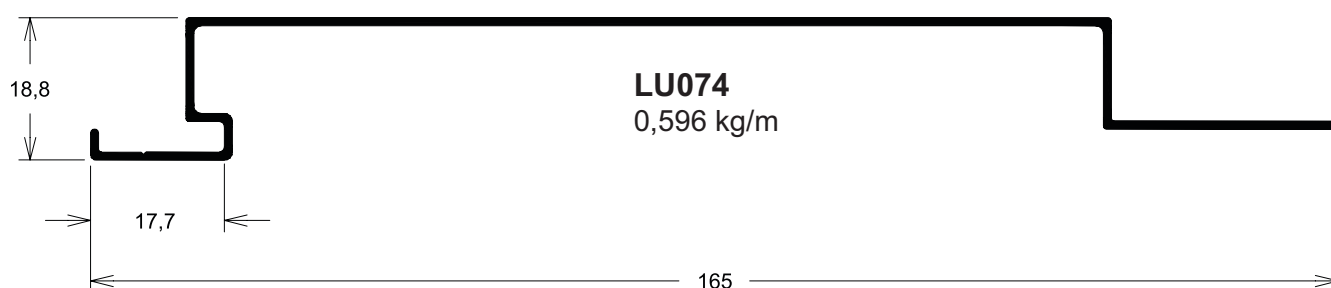
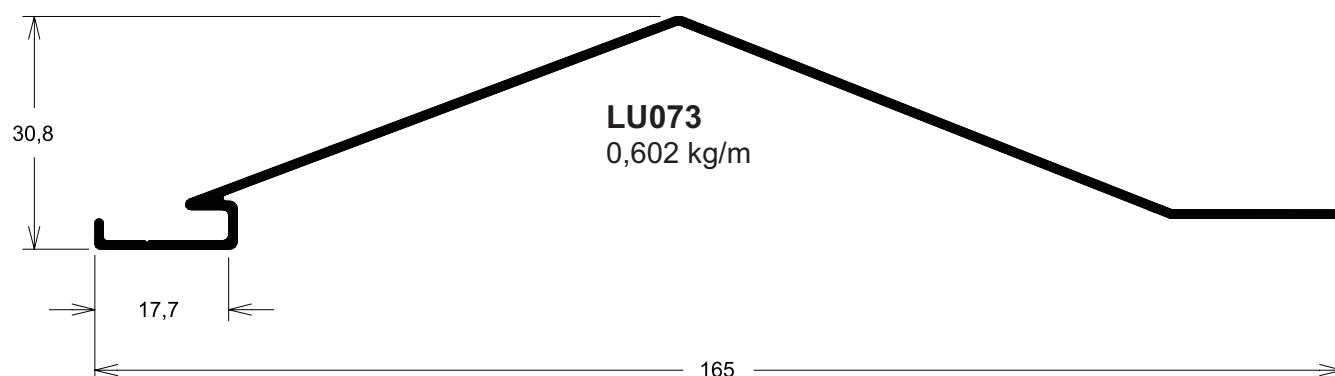
0,582 kg/m



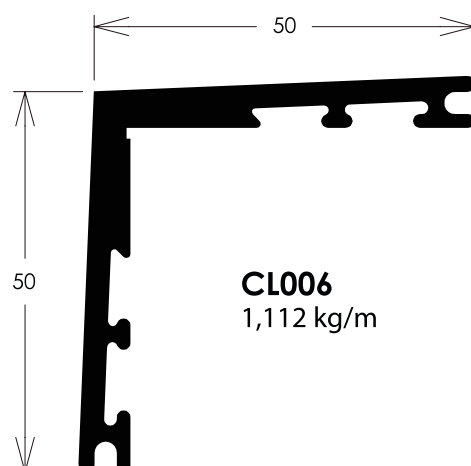
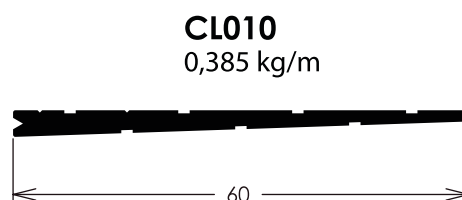
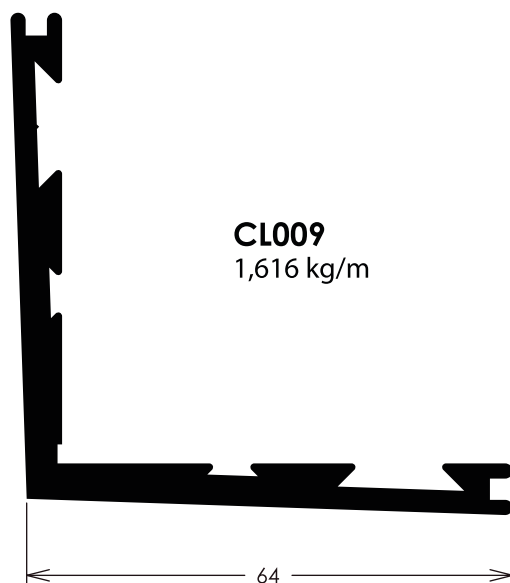
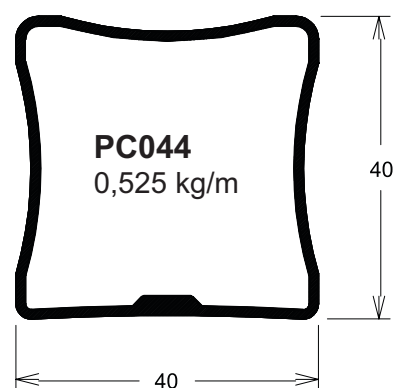
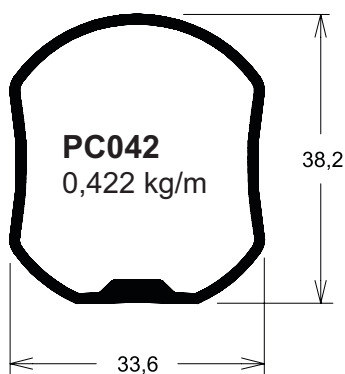
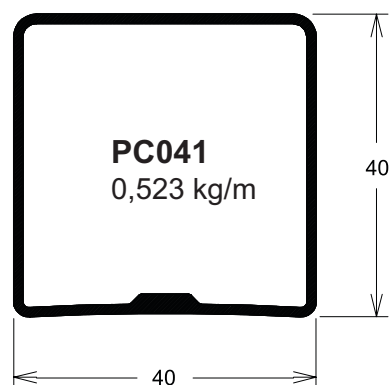
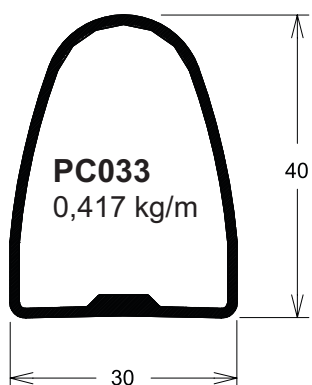
LU072

0,581 kg/m





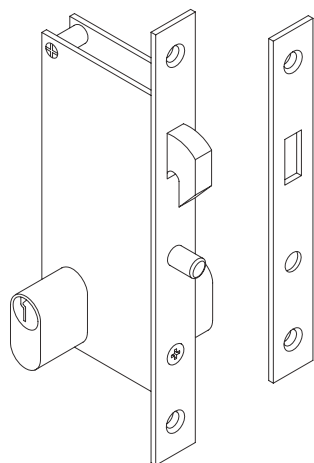
BARROTES E CONEXÕES



UNIVERSAL

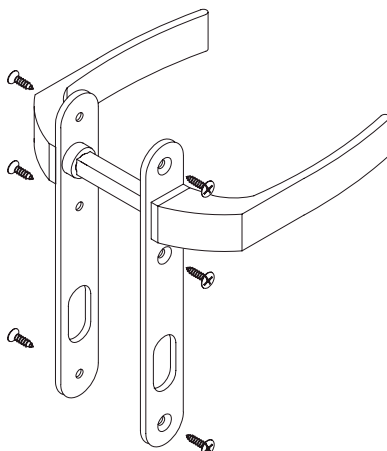
PORTÃO®

Cód.	Pág.
CHU795	E-03
DOB863	E-01
FEC980	E-01
FIT316	E-03
FRA2080	E-01
FRA2122	E-01
KITBAS001	E-02
KITBAS002	E-02
wKITBAS003	E-02
KITBAS004	E-03
MAC1001	E-01
NYL218	E-01
PAR1024	E-03
PAR1050	E-03
PAR1056	E-03
PAR1057	E-03
PAR1057	E-03
PAR1058	E-03
PAR1060	E-03
PAR428	E-01
PAR434	E-01
PAR436	E-03
PAR437	E-03
PAR691	E-01
PAR936	E-03
PUX006	E-01
REB115	E-01
ROL303	E-01
ROL318	E-01



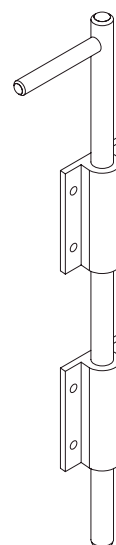
FRA2122

Fechadura - Cilindro 80 mm
Latão Fumê



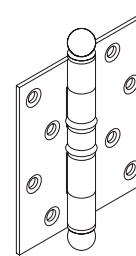
MAC1001

Maçaneta com Espelho
Alumínio Preto



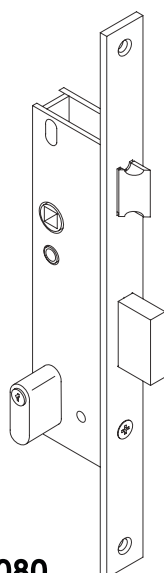
FEC980

Fecho tipo Ferrolho
Alumínio Preto



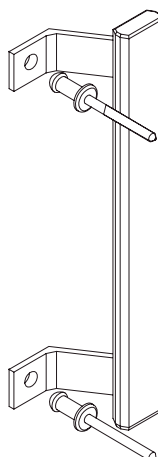
DOB863

Dobradiça
Latão Fumê



FRA2080

Fechadura - Cilindro 80 mm
Latão Fumê



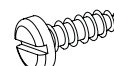
PUX006

Puxador - Porta de Correr
Alumínio Branco ou Preto



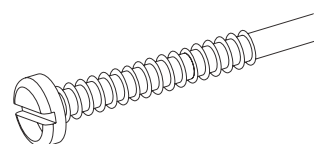
PAR434

Parafuso AA Ø 3,9 x 9,5 mm
Aço Inox



PAR691

Parafuso AA Ø 4,8 x 13 mm
Aço Inox



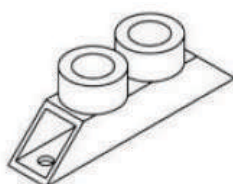
PAR428

Parafuso AA Ø 4,8 x 32 mm
Aço Inox



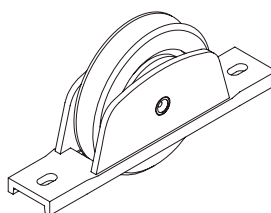
NYL218

Batente da Folha
Nylon Preto



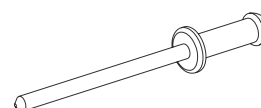
ROL303

Rodízio com suporte
Alumínio Natural



ROL318

Rodízio com rolamento
Alumínio Natural



REB115

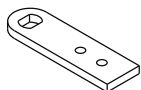
Rebite Ø4 x 10,2 mm
Alumínio Natural

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

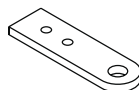
Cores: Preto, Branco e Fosco



Ponteira Superior do Braço

02 peças

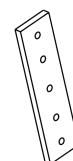
02 Paraf. c/ Porca (PAR690)



Ponteira Inferior do Braço

02 peças

02 Paraf. c/ Porca (PAR690)



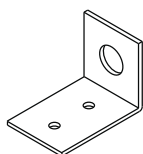
Barra de Fixação da Travessa

Portão até 3 mt = 02 peças

Portão até 4 mt = 04 peças

Portão até 5 mt = 09 peças

05 Paraf. c/ Porca (PAR690)



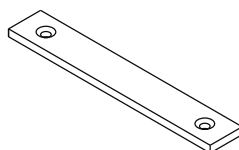
Mancal

Portão até 3 mt = 03 peças

Portão até 4 mt = 04 peças

Portão até 5 mt = 05 peças

02 Paraf. c/ Porca (PAR690)



Trava da Caixa

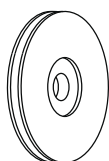
06 peças

02 Parafusos (PAR1058)



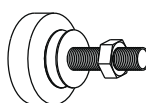
Complemento do Braço

02 peças



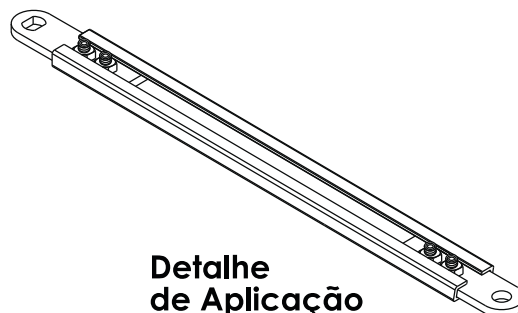
Roldana com Rolamento

02 peças



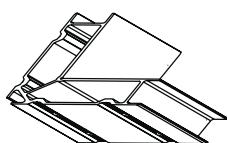
Roldana Guia Lateral com Rolamento

02 peças



Detalhe de Aplicação

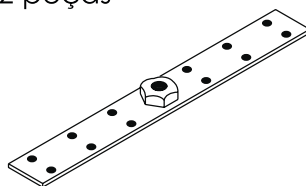
02 conjuntos



Conexão

04 peças

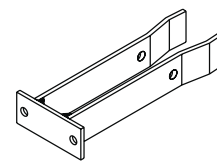
08 Parafusos (PAR1059)



Suporte para Guia Lateral

02 peças

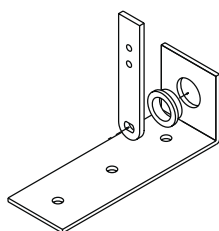
12 Parafusos (PAR691)



Suporte para Roldana

02 peças

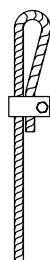
02 Paraf. c/ Porca (PAR690)



Suporte do Estabilizador

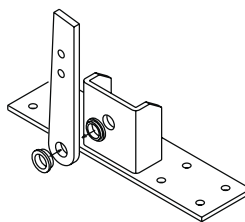
02 peças

03 Paraf. c/ Porca (PAR690)



Cabo de Aço

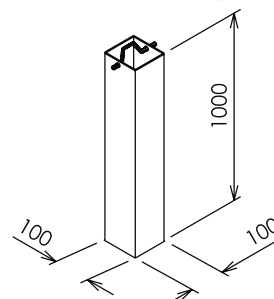
02 conjuntos



Suporte do Braço Estabilizador

02 peças

08 Paraf. c/ Porca (PAR936)



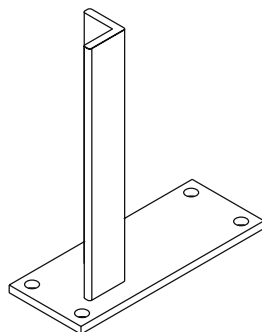
Contrapeso

Caixa c/ Capacidade de até 70 Kg p/ Medida Máxima do Portão com 2500x5000 mm

02 peças

KITBAS004 - Kit Motorização

Cores: Preto, Branco e Fosco



Suporte do Motor

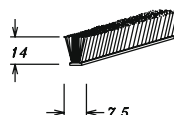
02 peças

04 Paraf. c/ Porca (PAR690)



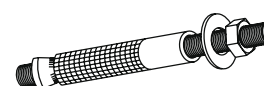
PAR1060

Paraf. Cab. Abaulada
c/ Sext. Interno
M6x15 Inox 304



FIT316

Fita Vedadora
Base 7,5x14 mm
Preta



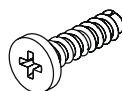
CHU795

Chumbador c/ Porca
Arruela e Prisioneiro
9,5x80 mm



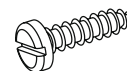
PAR437

Paraf. AA CP 3,5x9,5 mm
Aço Inox Natural



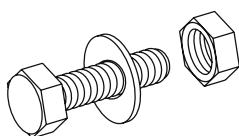
PAR1024

Paraf. AA CP Philips
4,2x13 mm
Aço Inox Natural



PAR936

Paraf. AA CP 4,2x16 mm
Aço Inox Natural



PAR1057

Paraf. Sext. 1/4" x 1,1/2"
Porca e Arruela
Aço Inox Natural



PAR1058

Paraf. AA CX Philips
4,2x13 mm
Aço Inox Natural



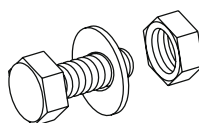
PAR1056

Paraf. AA CX Philips
4,8x19 mm
Aço Inox Natural



PAR436

Paraf. AA 3,9x28 mm
Aço Inox



PAR1057

Paraf. Sext. 1/4" x 5/8"
Porca e Arruela
Aço Inox Natural



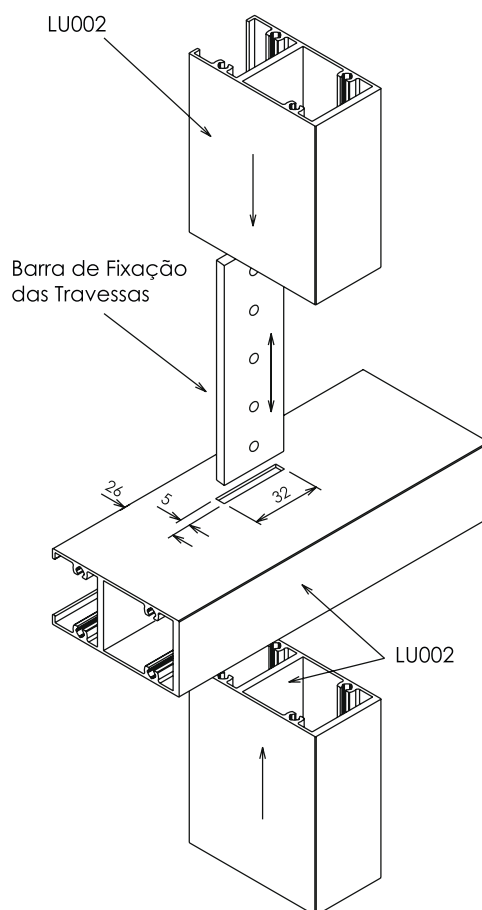
PAR1050

Paraf. AA 3,5x16 mm
Aço Inox Natural

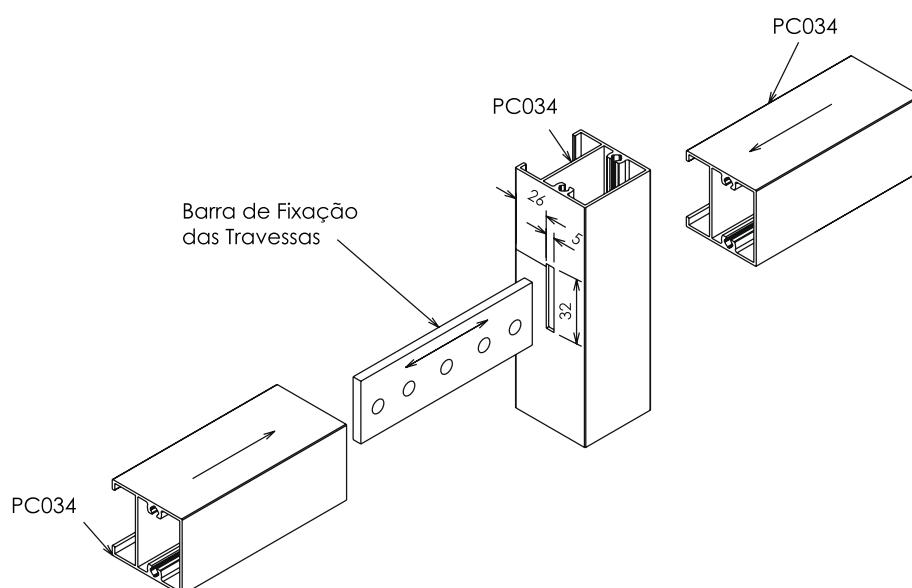


Cód.	Pág.
INSTRUÇÕES DE USINAGEM E MONTAGEM PARA PORTÕES DE 5 METROS	F-01
INSTRUÇÕES DE USINAGEM E MONTAGEM PARA PORTÕES DE 3 METROS	F-01
BARRA ESTABILIZADORA	F-02
ENCAIXE SUPERIOR NA GUIA PARA APOIO DA ROLDANA	F-03
ENCAIXE PARA APOIO DA ROLDANA	F-04
USINAGEM DA TRAVESSA	F-05
DETALHE CONSTRUTIVO PORTÃO BASCULANTE	G-01
ESQUEMA PORTÃO MOTORIZADO	G-02
ESQUEMA PORTÃO MANUAL	G-03
DEFINIÇÃO DA MEDIDA DO BRAÇO	G-04
DETERMINAR O PONTO DE GIRO	G-05

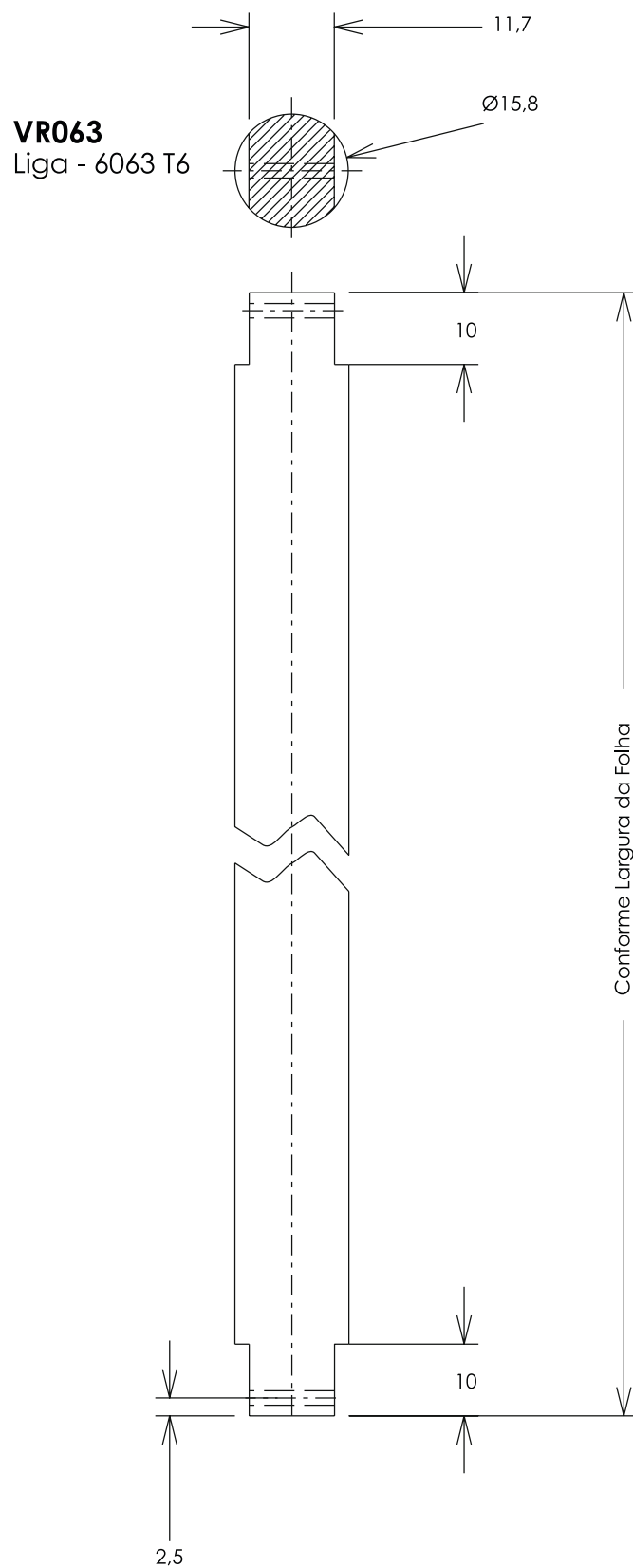
Instruções de Usinagem e Montagem para Portões de 5 metros



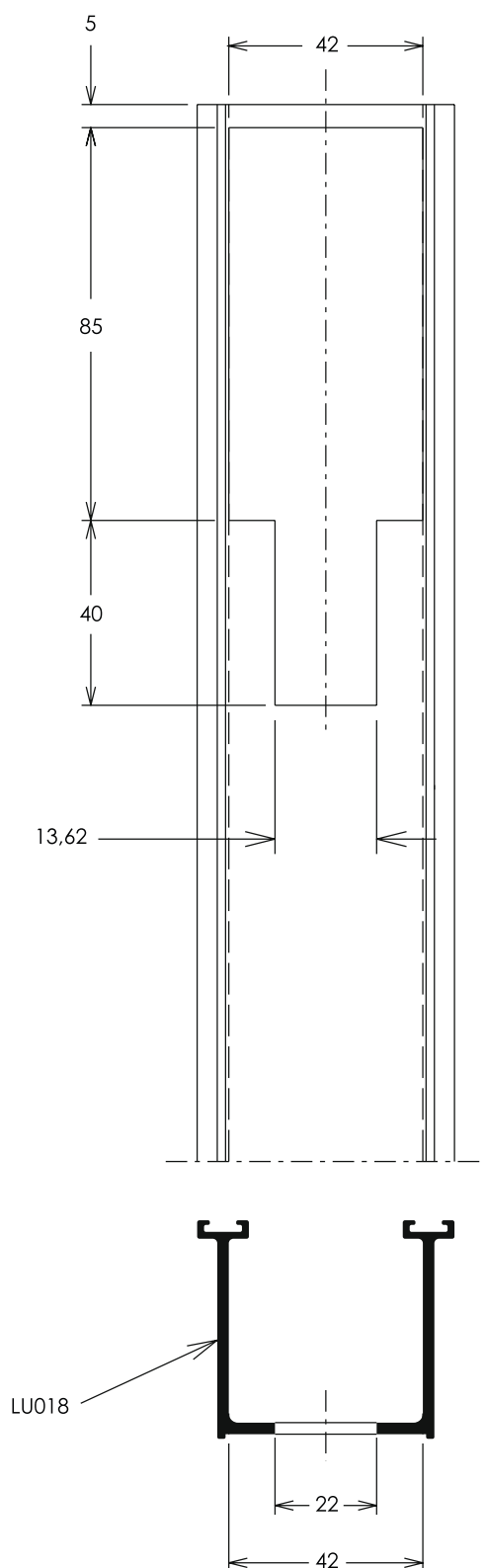
Instruções de Usinagem e Montagem para Portões de 3 metros



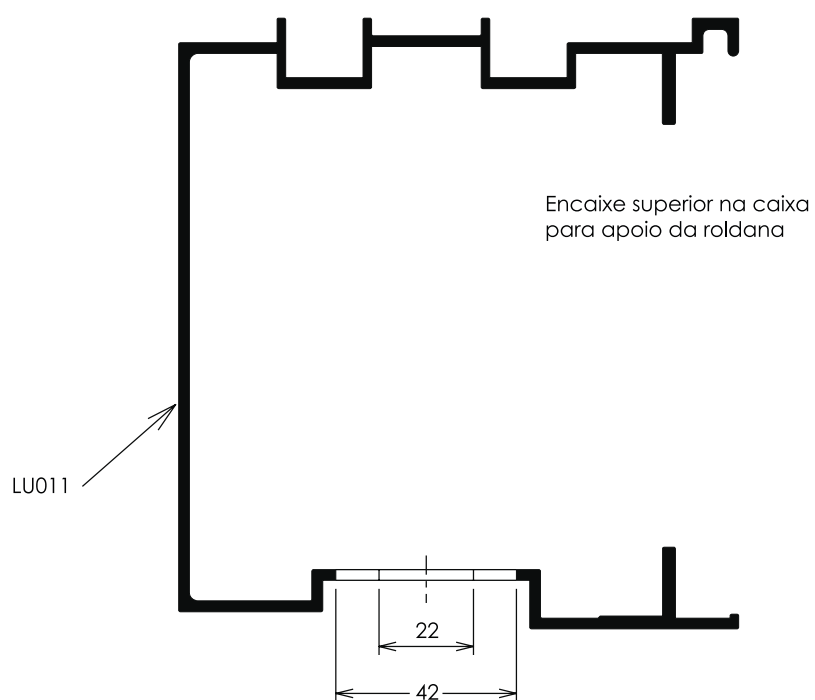
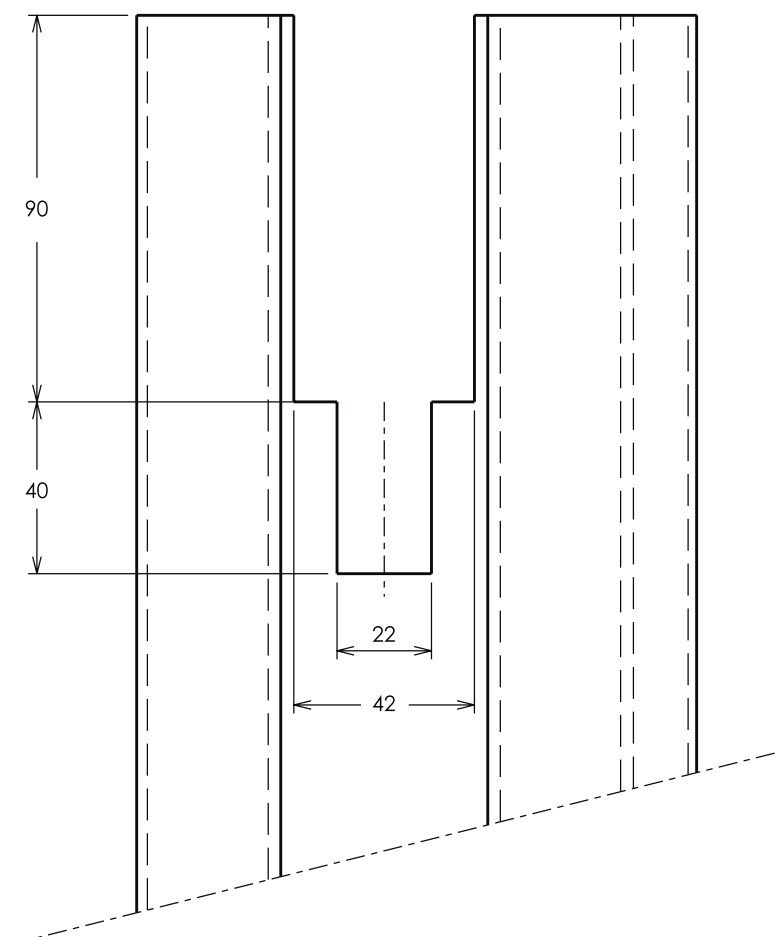
Barra Estabilizadora



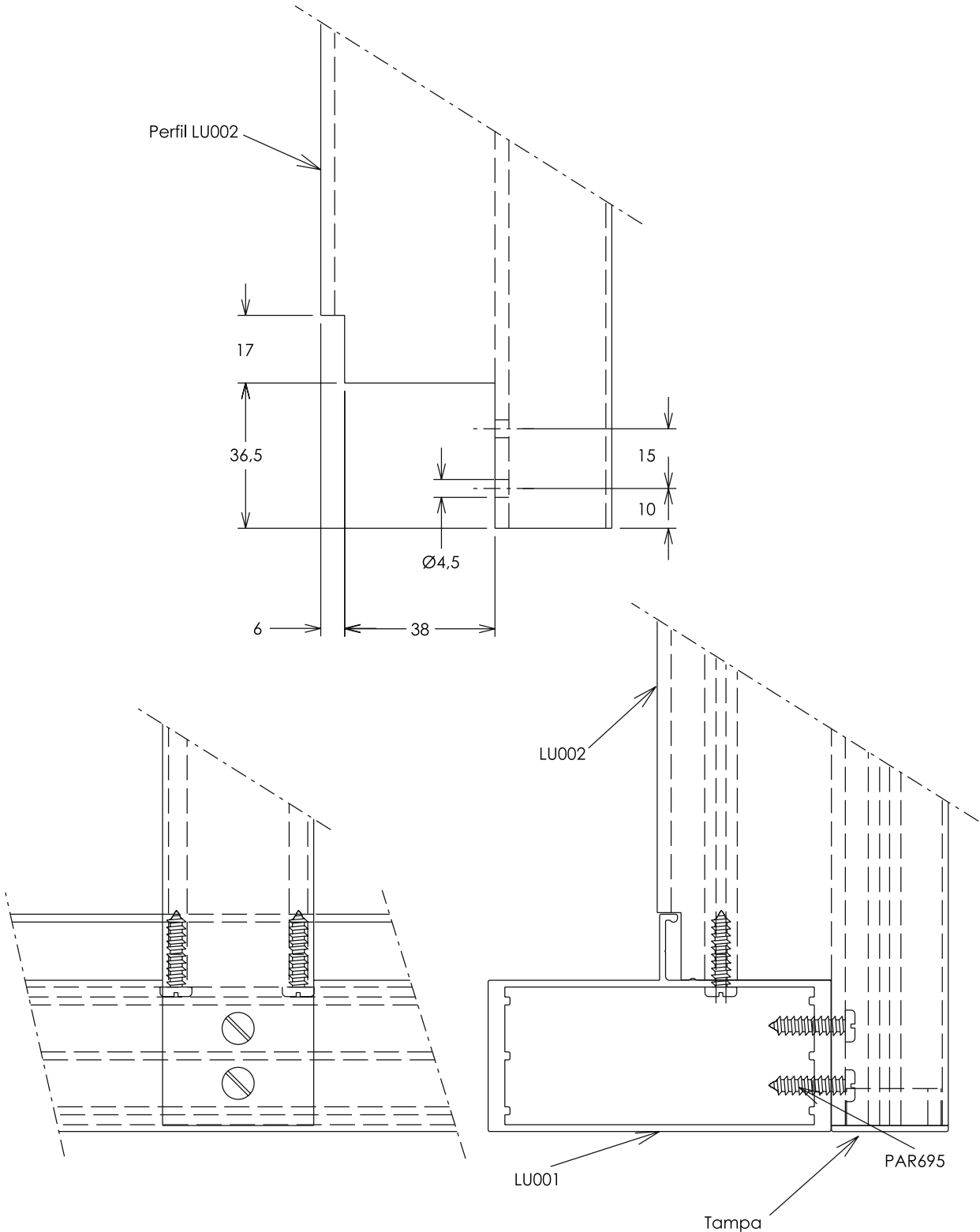
Encaixe Superior na Guia para Apoio da Roldan a



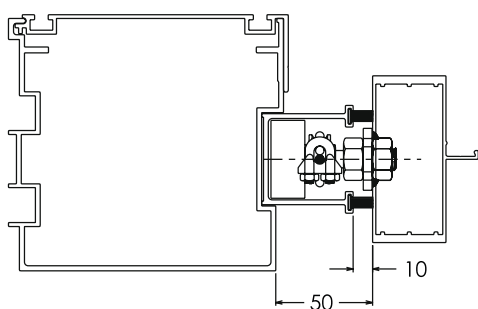
Encaixe para Apoio da Roldana



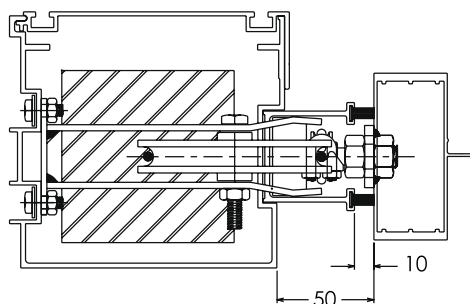
Usinagem da Travessa



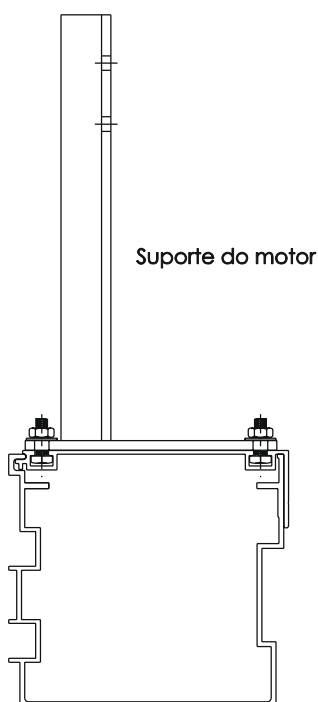
Detalhe Construtivo Portão Basculante



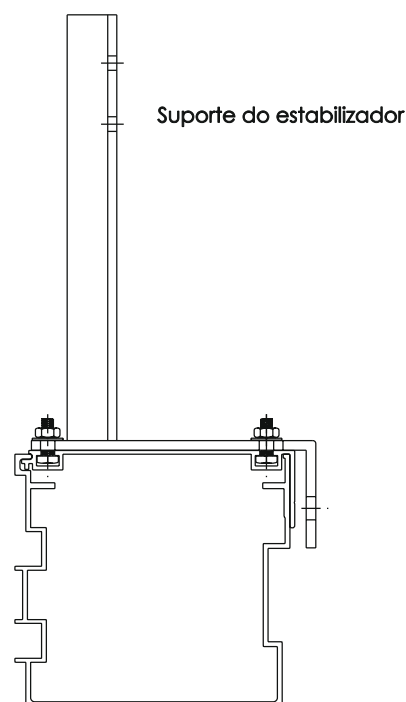
Guia lateral



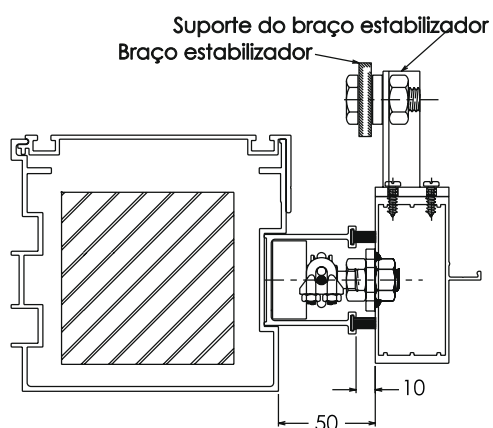
Conjunto da roldana



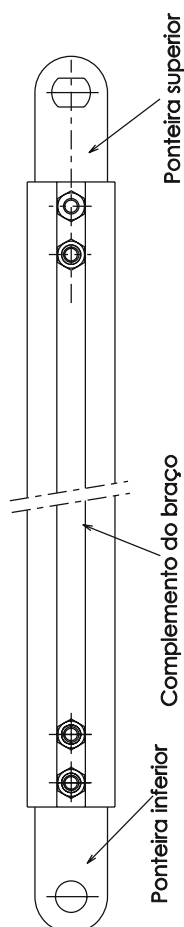
Suporte do motor



Suporte do estabilizador



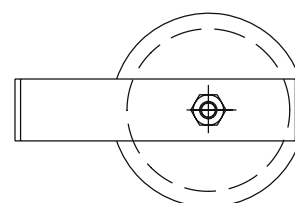
Conjunto do braço estabilizador



Ponteira superior

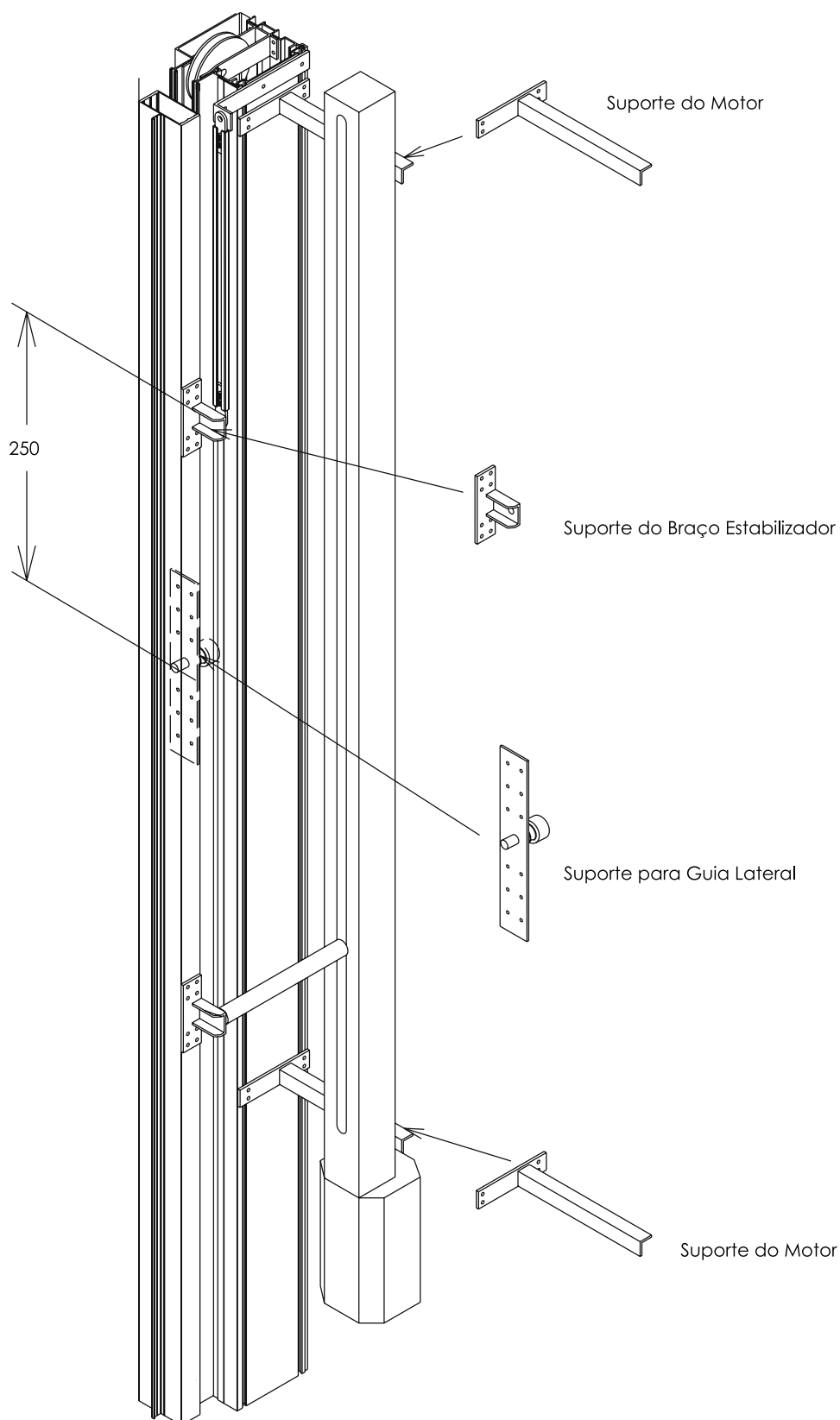
Complemento do braço

Ponteira inferior

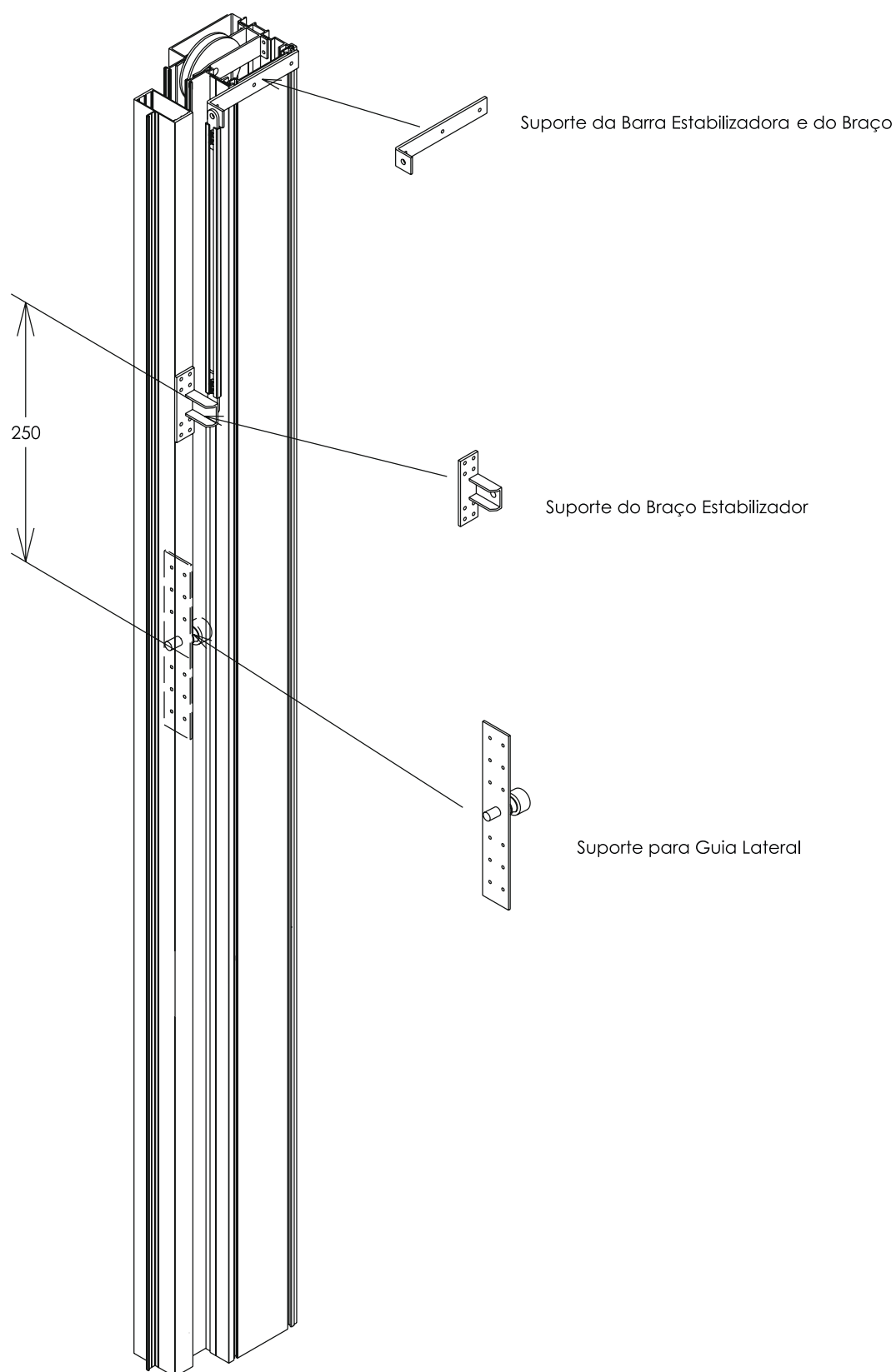


Suporte com roldana

Esquema Portão Motorizado

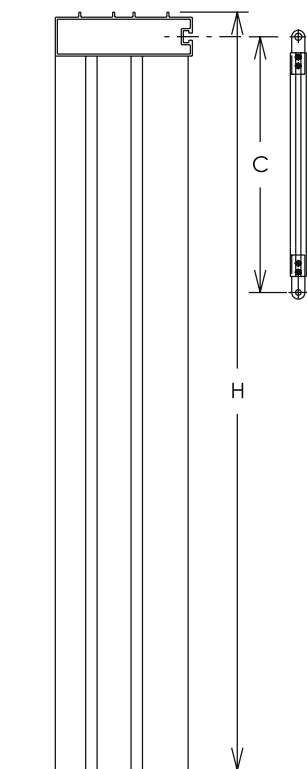


Esquema Portão Manual





Definição da Medida do Braço



Fórmula

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

Atenção:

A Medida "C" é Entre Eixo dos Furos

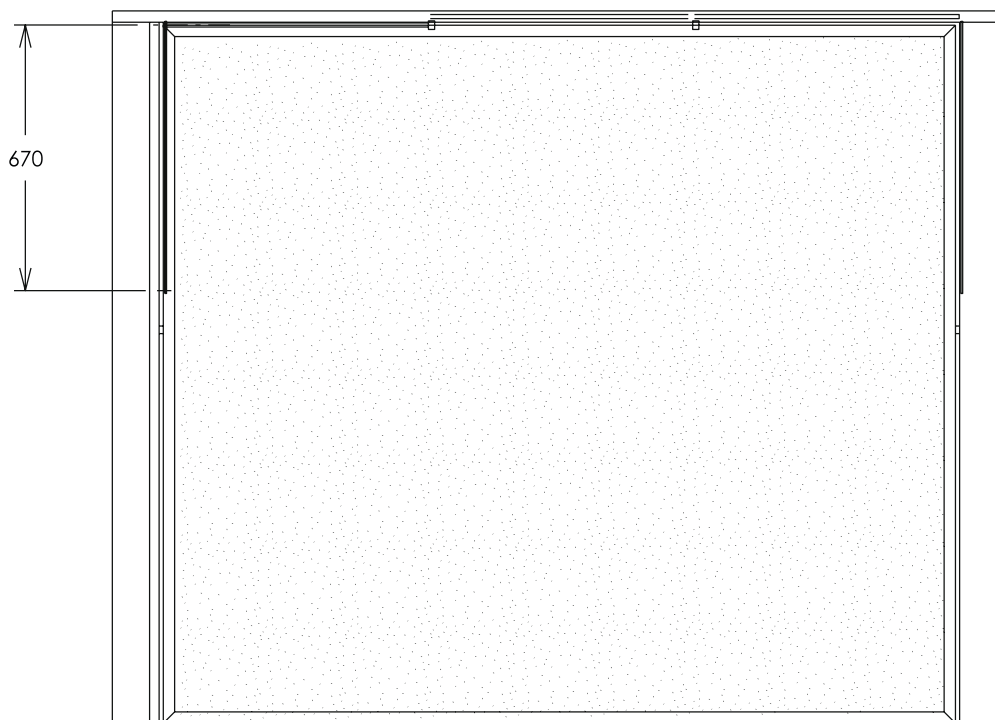
Exemplo

$$C = 2500 - 20 = 2480$$

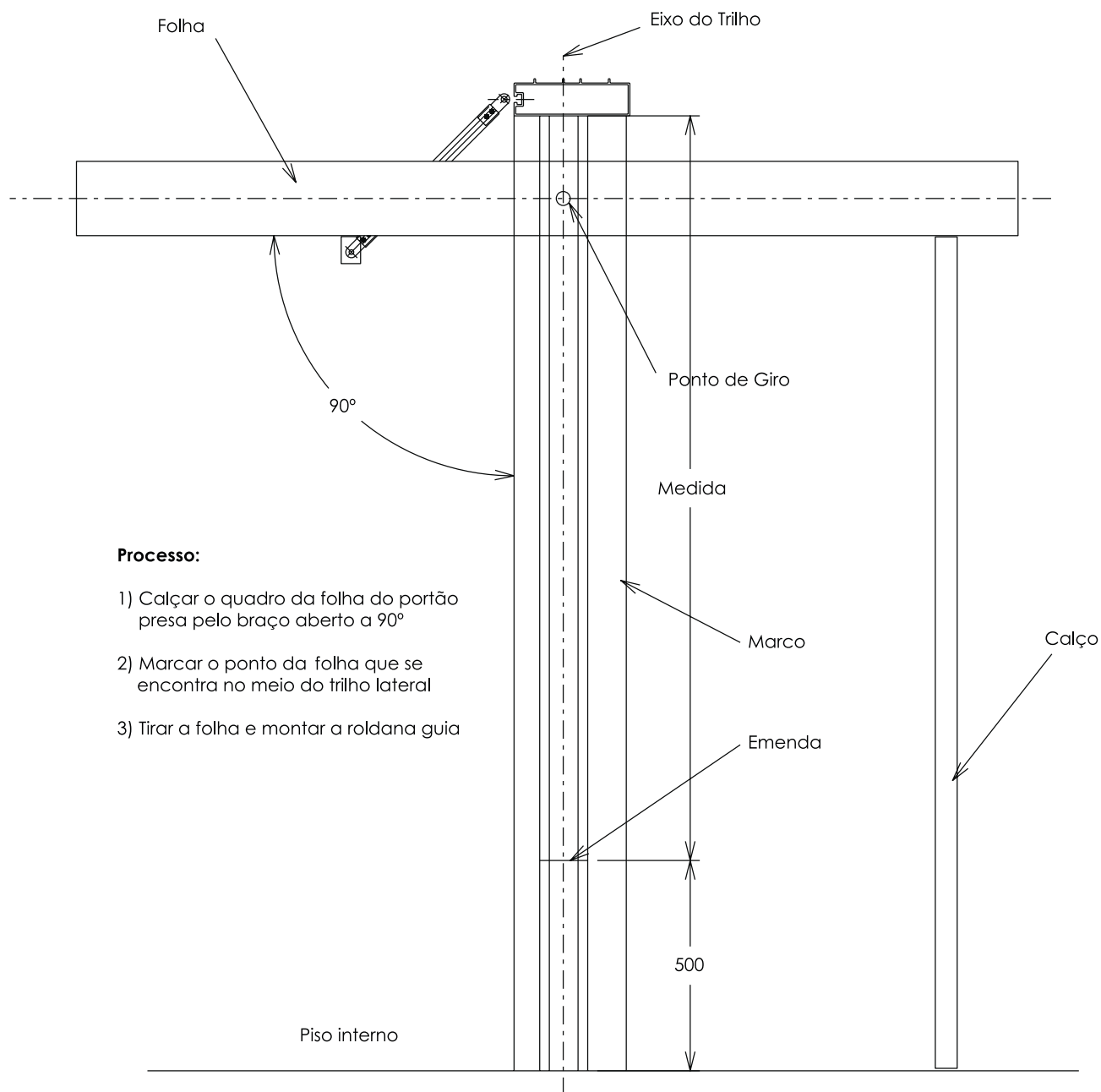
$$C = 2480 \times 0,27 = 670 \text{ (Arredondada)}$$

Medida de Corte do Complemento do Braço

$$670 - 74 = 596$$



Determinar o Ponto de Giro



Atenção:

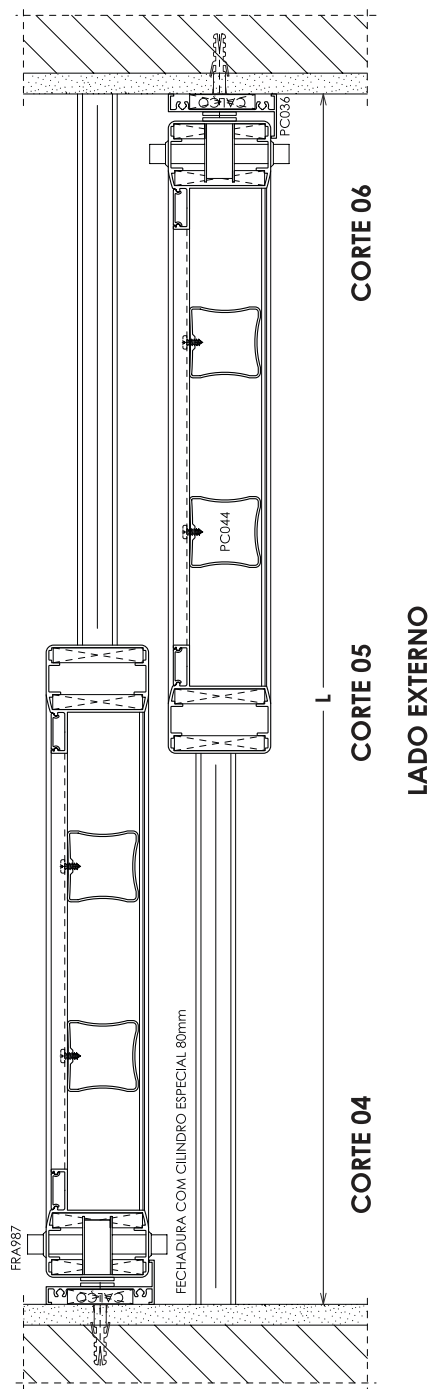
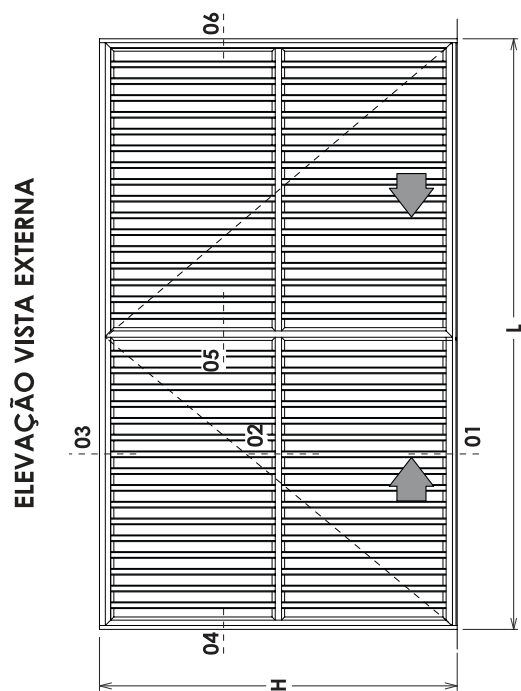
Para a colocação da folha já com as roldanas guia, o trilho (LU018) deverá ser cortado de acordo com as medidas acima.

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

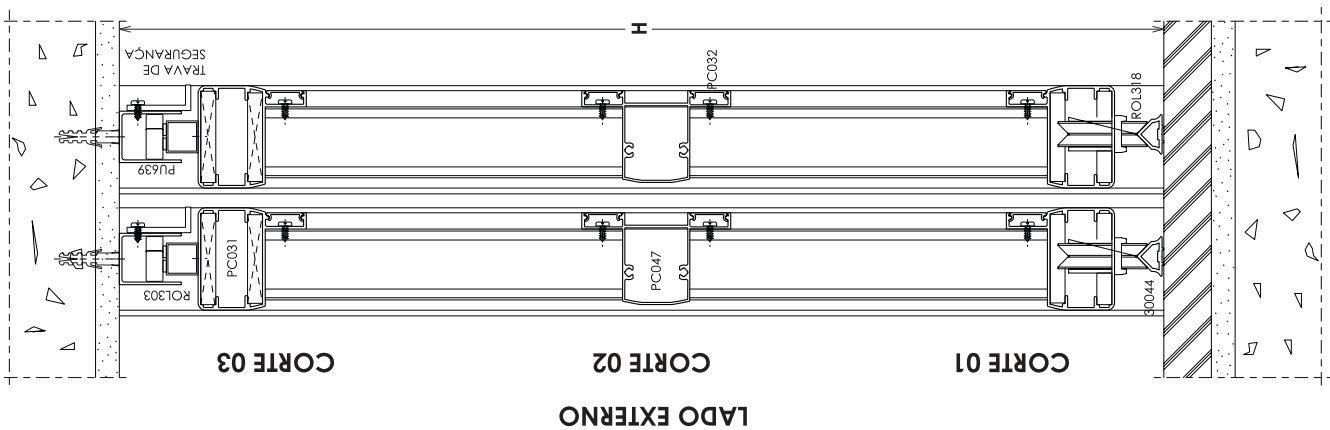
UNIVERSAL

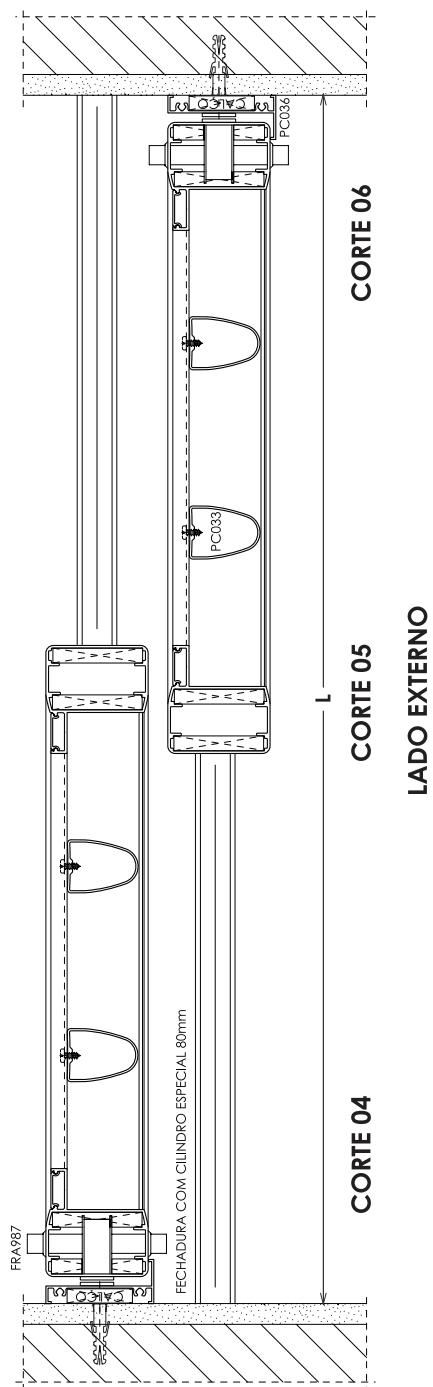
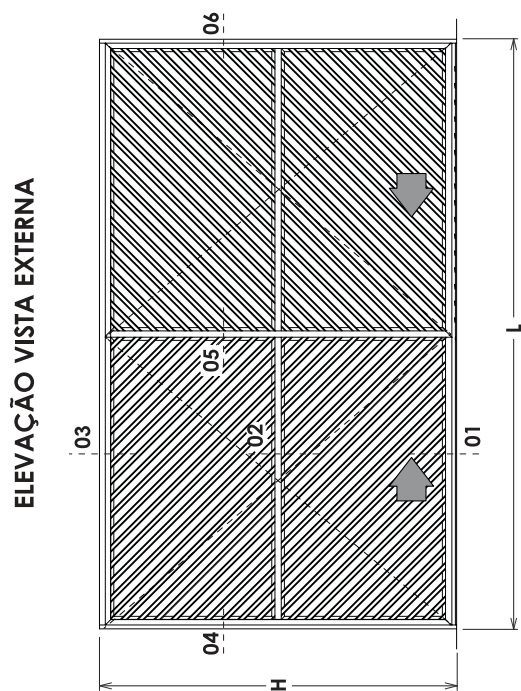
PORTÃO®

Cód.	Pág.
PORTÃO UNIVERSAL COM BARROTES VERTICAIS 2 FOLHAS DE CORRER	H-01
PORTÃO UNIVERSAL COM BARROTES INCLINADOS 2 FOLHAS DE CORRER	H-02
PORTÃO UNIVERSAL COM LAMBRIS VERTICAIS 2 FOLHAS DE CORRER	H-03
PORTÃO UNIVERSAL COM LAMBRIS VERTICAIS 1 FOLHA DE GIRO	H-04
PORTÃO UNIVERSAL COM BARROTES VERTICAIS 1 FOLHA DE GIRO	H-05
PORTÃO UNIVERSAL COM LAMBRIS VERTICAIS 2 FOLHAS DE GIRO	H-06
PORTÃO FIT DE CORRER 2 FOLHAS COM BARROTES E MARCO BAIXO	H-07
PORTÃO FIT DE CORRER 2 FOLHAS COM BARROTES/LAMBRIS E MARCO ALTO	H-08
PORTÃO FIT DE CORRER 2 FOLHAS COM BARROTES/LAMBRIS E MARCO BAIXO	H-09
PORTÃO FIT DE CORRER 2 FOLHAS COM BARROTES/LAMBRIS E MARCO ALTO	H-10
PORTÃO FIT DE CORRER 2 FOLHAS COM BARROTES/LAMBRIS, PORTÃO SOCIAL E MARCO ALTO	H-11
GRADE COM BARROTES VERTICAIS	H-12
GRADE COM BARROTES INCLINADOS	H-13
GRADE COM BARROTES VERTICAIS ENTRE TRAVESSAS	H-14
PORTÃO BASCULANTE DE 3 METROS	H-15
PORTÃO BASCULANTE DE 3 METROS – PORTA SOCIAL	H-16
PORTÃO BASCULANTE DE 3 METROS – BANDEIRA	H-17
PORTÃO BASCULANTE DE 5 METROS	H-18
PORTÃO BASCULANTE DE 5 METROS – PORTA SOCIAL	H-19
PORTÃO BASCULANTE DE 3 METROS – LAMBRIS NA HORIZONTAL	H-20
PORTÃO BASCULANTE DE 5 METROS – LAMBRIS NA HORIZONTAL	H-21
PORTÃO BASCULANTE DE 3 METROS – VENEZIANAS NA HORIZONTAL	H-22
PORTÃO BASCULANTE DE 5 METROS – VENEZIANAS NA HORIZONTAL	H-23
PORTA INDEPENDENTE	H-24

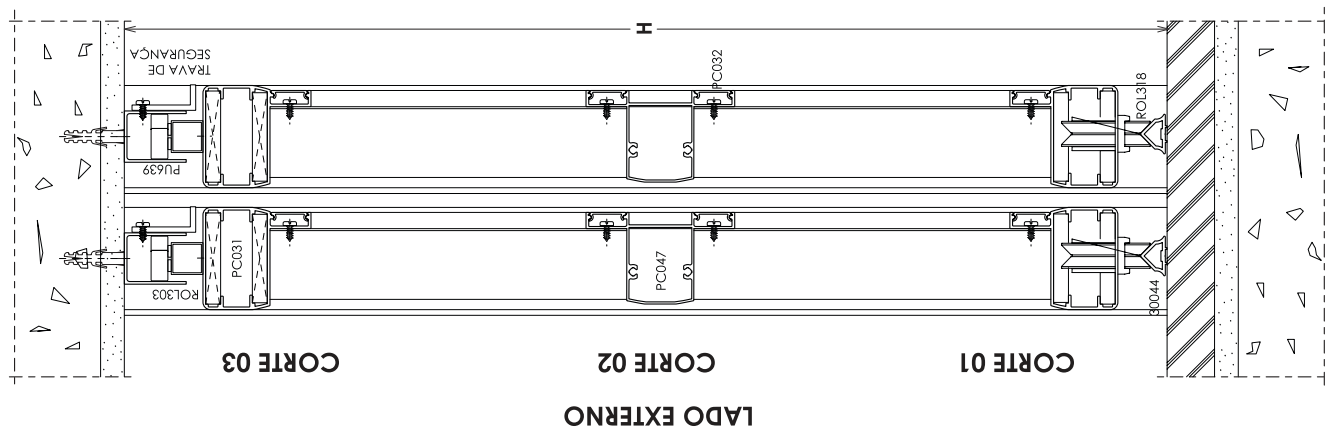


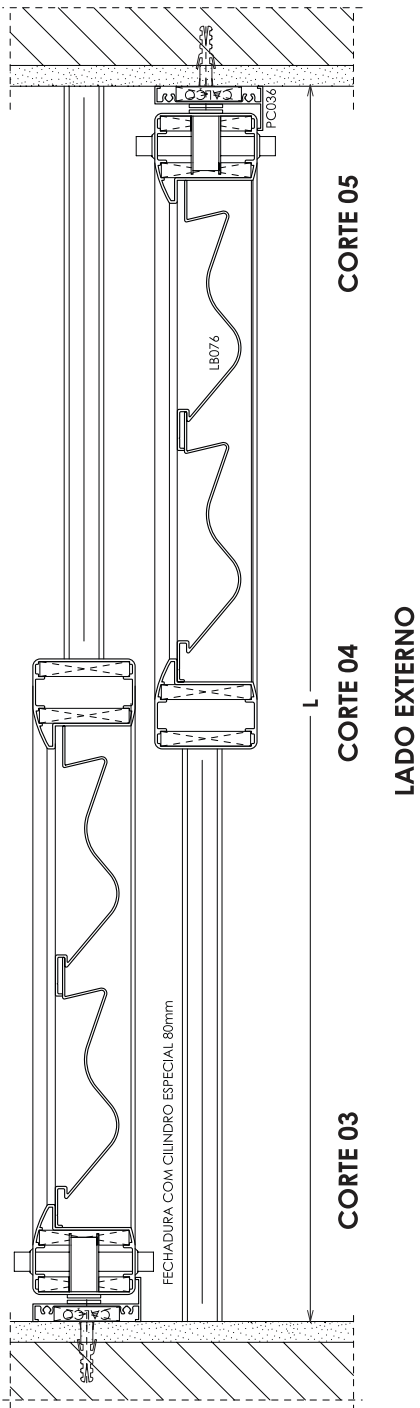
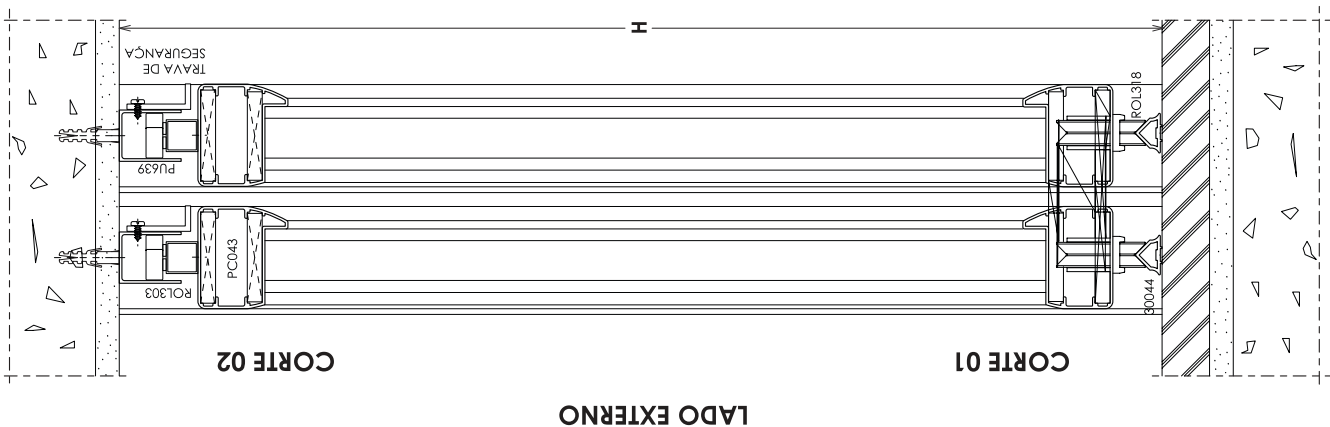
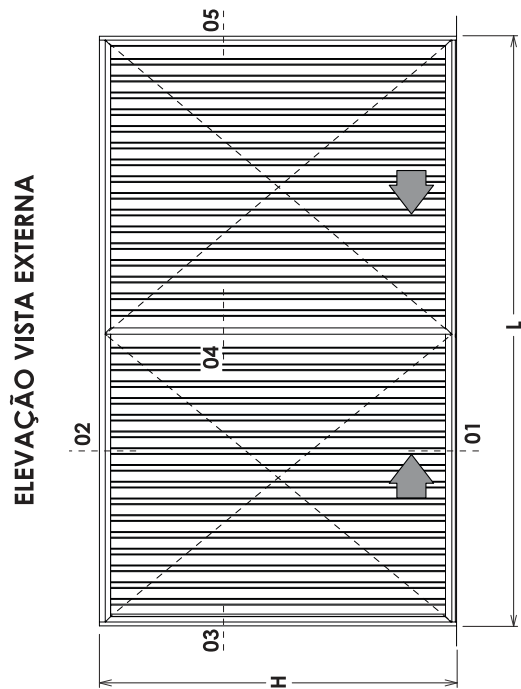
Portão Universal com barrotes verticais 2 folhas de correr





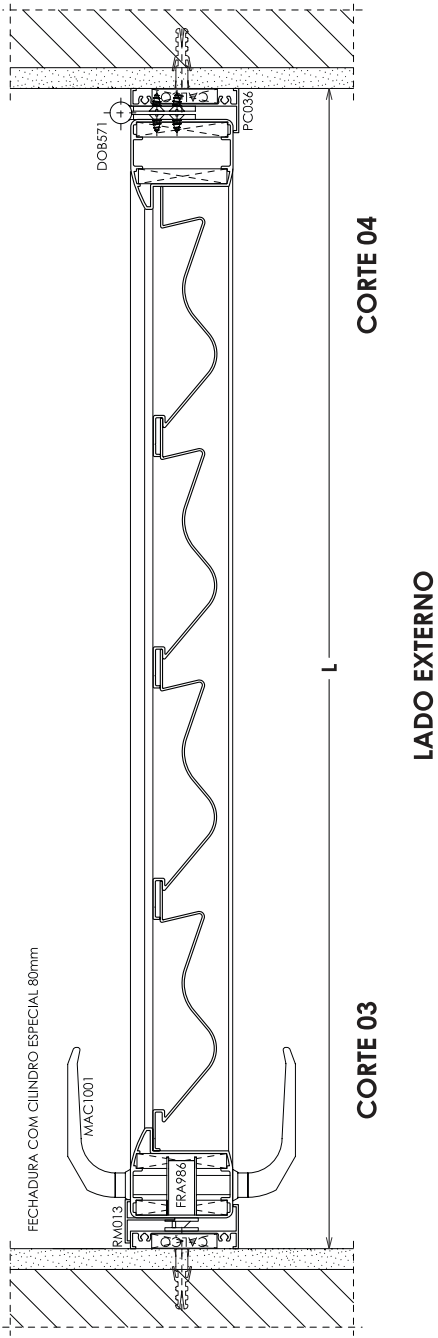
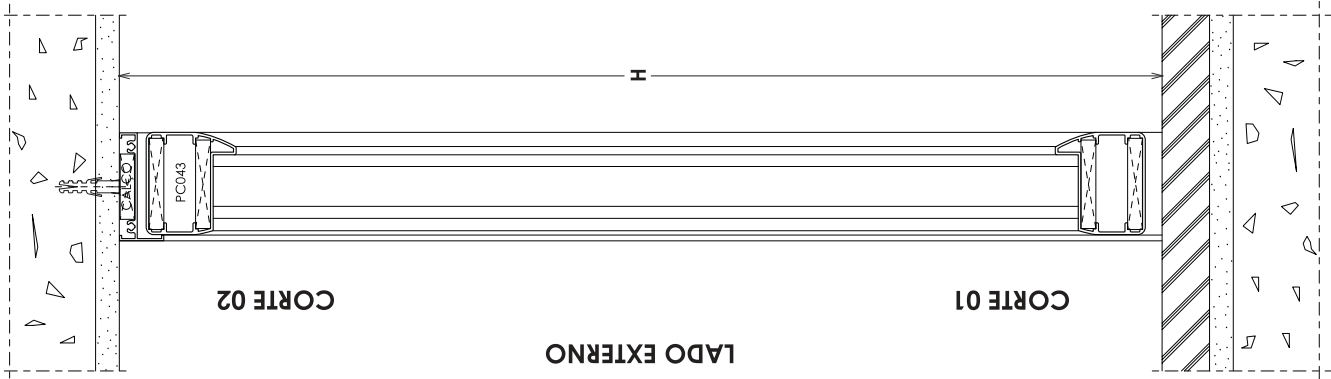
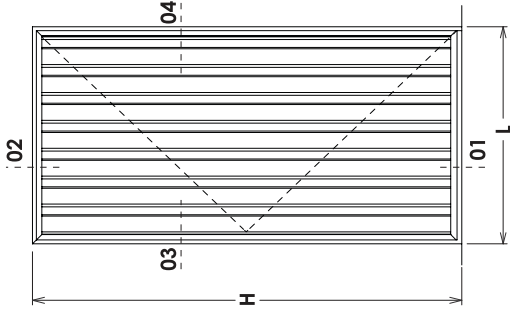
Portão Universal com barrotes inclinados 2 folhas de correr





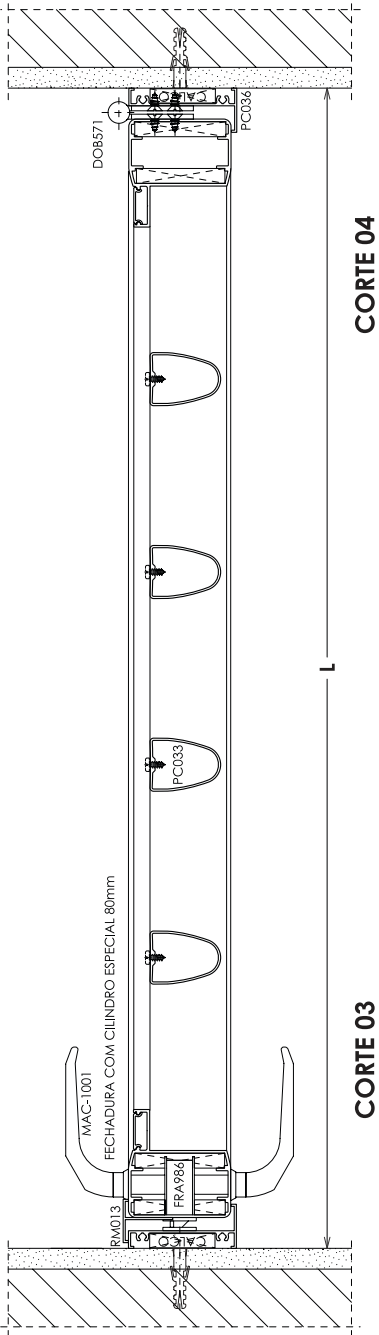
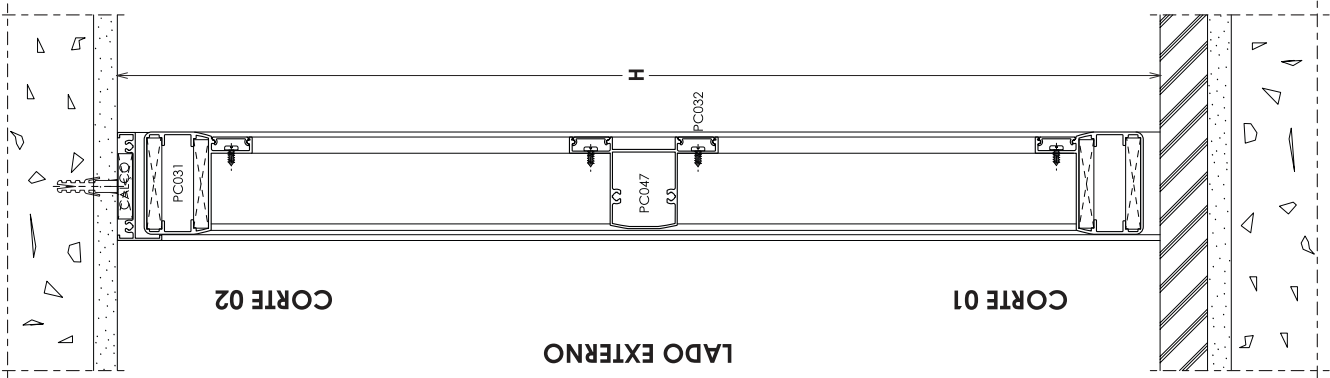
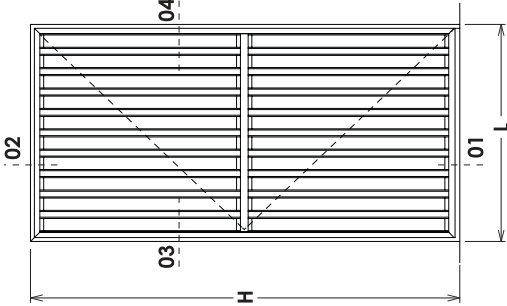
Portão Universal com lambris verticais 2 folhas de correr

ELEVAÇÃO VISTA EXTERNA



Portão Universal com lambris verticais 1 folha de giro

ELEVAÇÃO VISTA EXTERNA

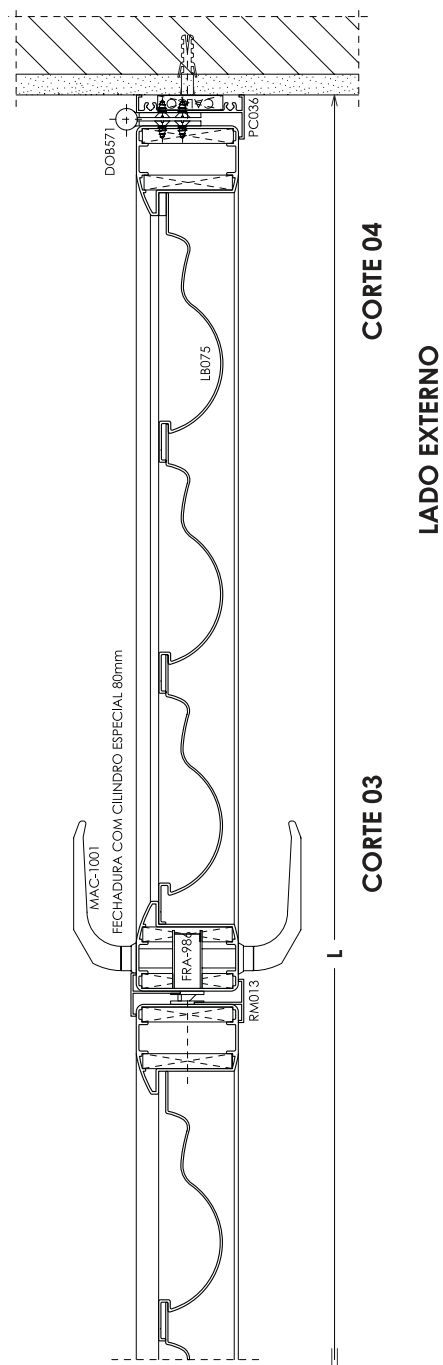
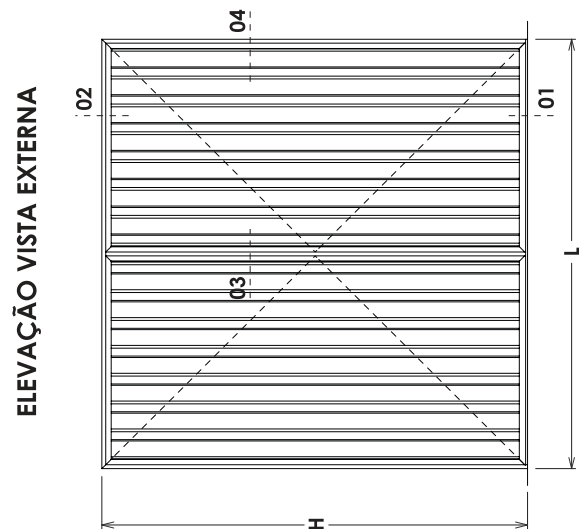
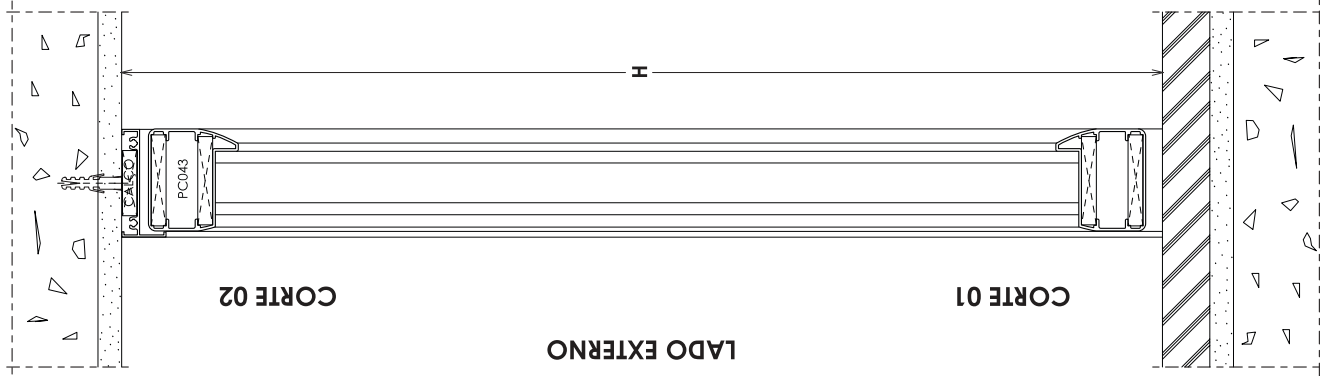


CORTE 04

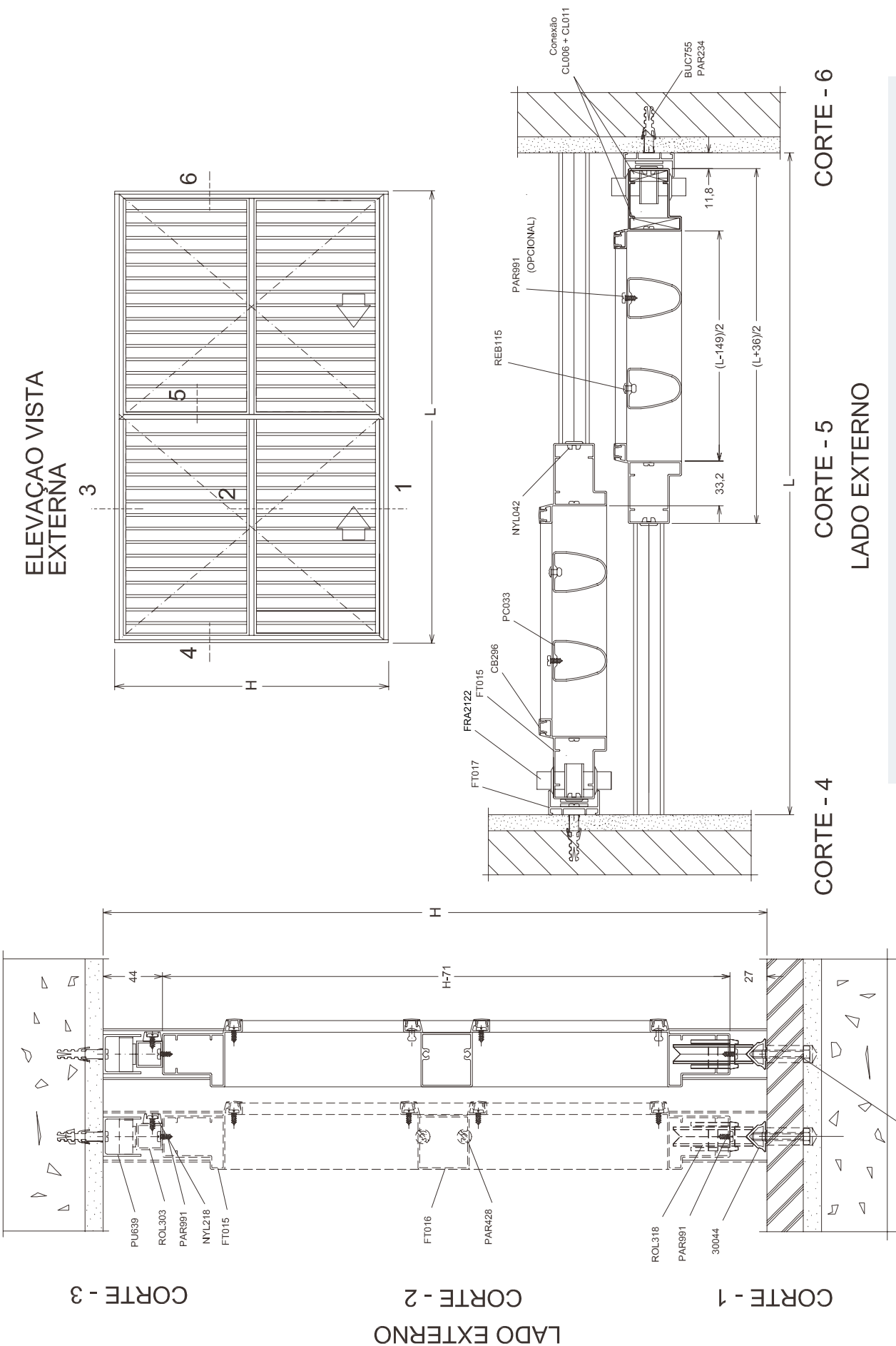
LADO EXTERNO

CORTE 03

Portão Universal com barrotes verticais 1 folha de giro

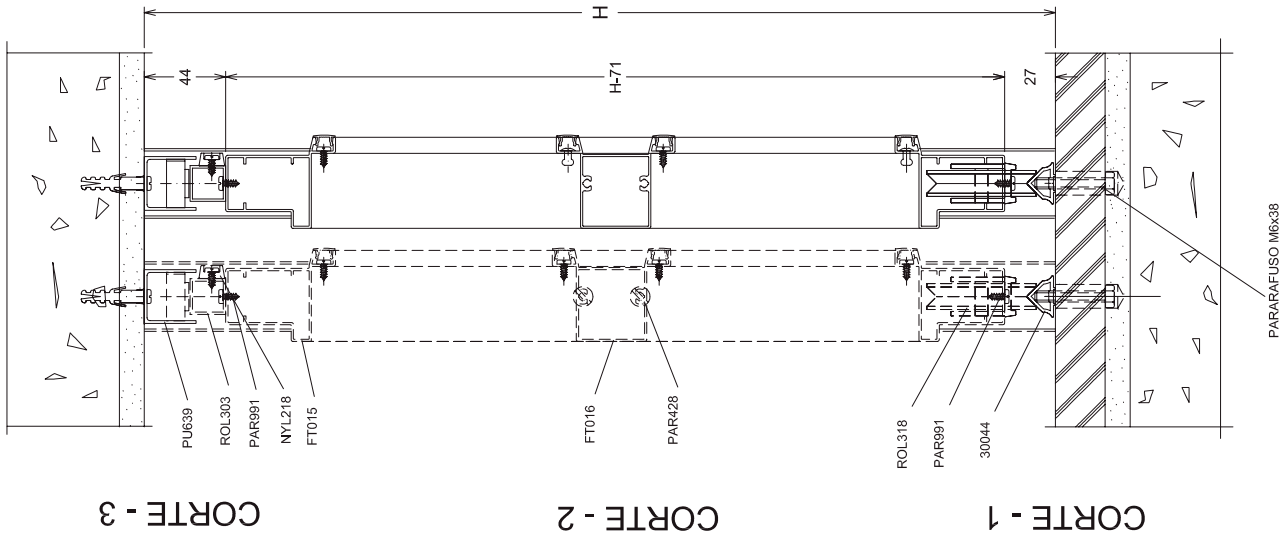
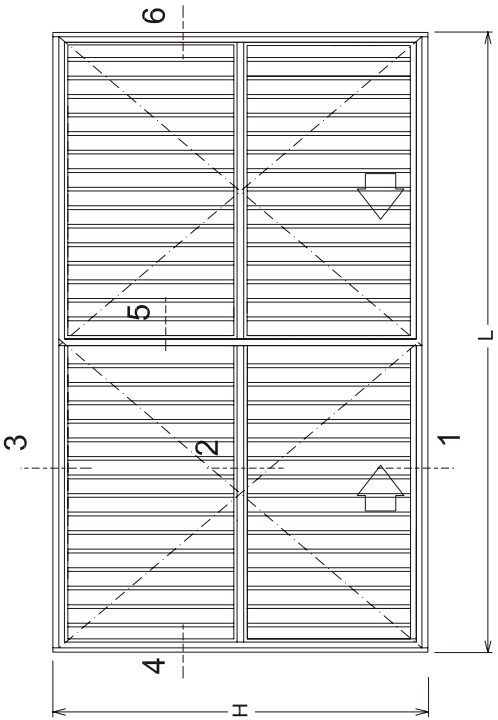


Portão Universal com lambris verticais 2 folhas de giro

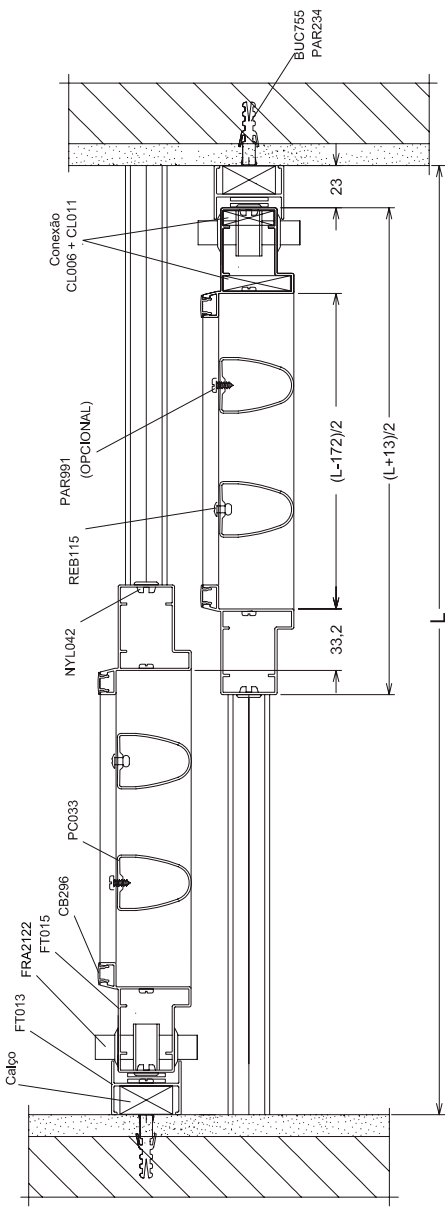


Portão Fit de correr 2 folhas com barrotes e marco baixo

ELEVAÇÃO VISTA EXTERNA



LADO EXTERNO



CORTE - 4

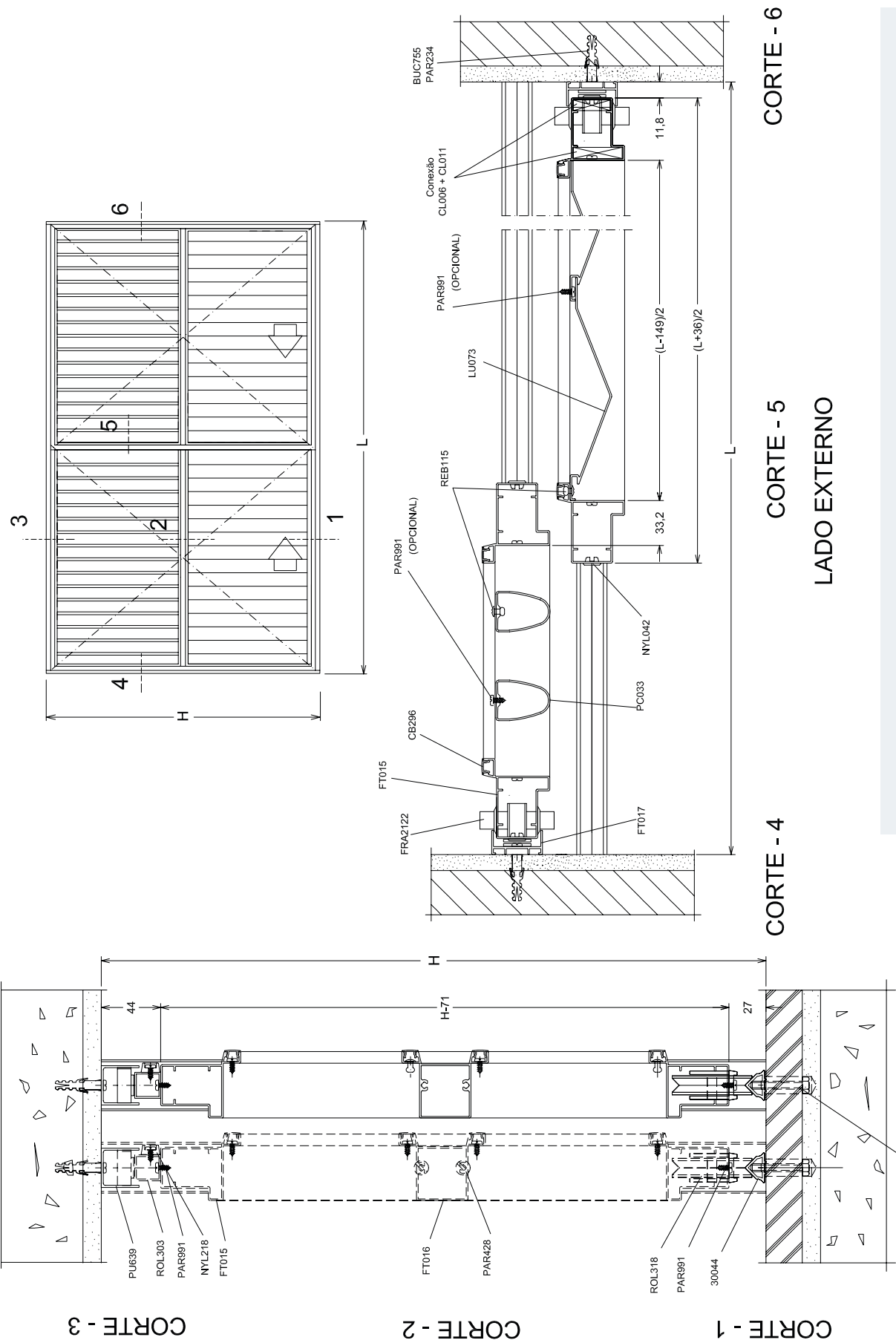
CORTE - 5

LADO EXTERNO

CORTE - 6

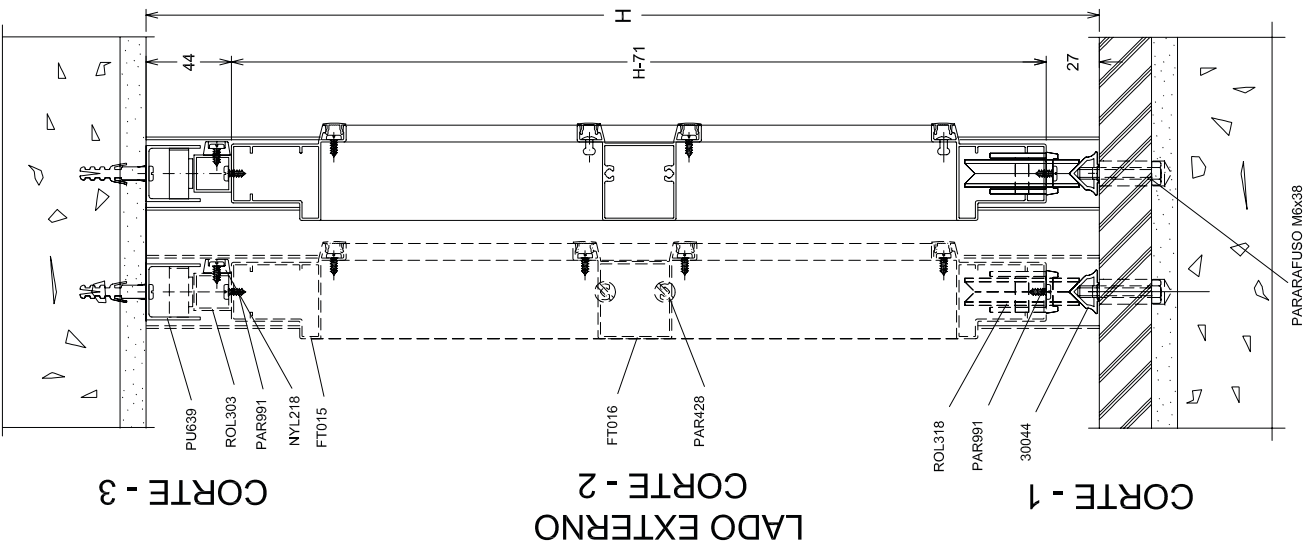
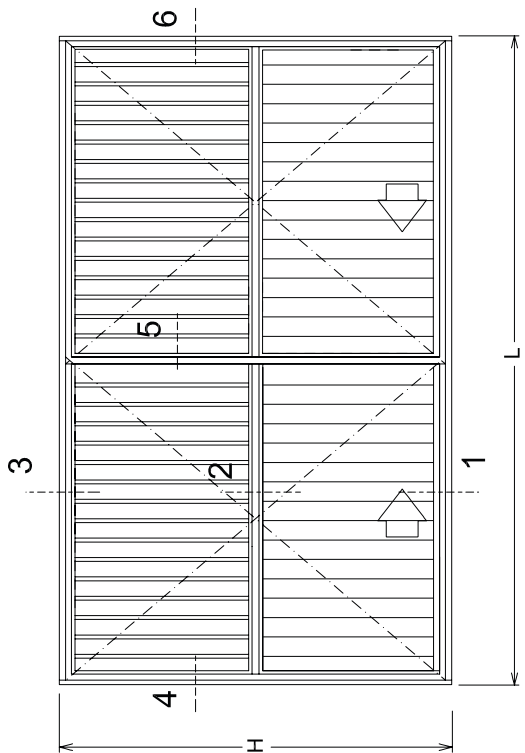
Portão Fit de correr 2 folhas com barrotes/lambris e marco alto

ELEVAÇÃO VISTA EXTERNA

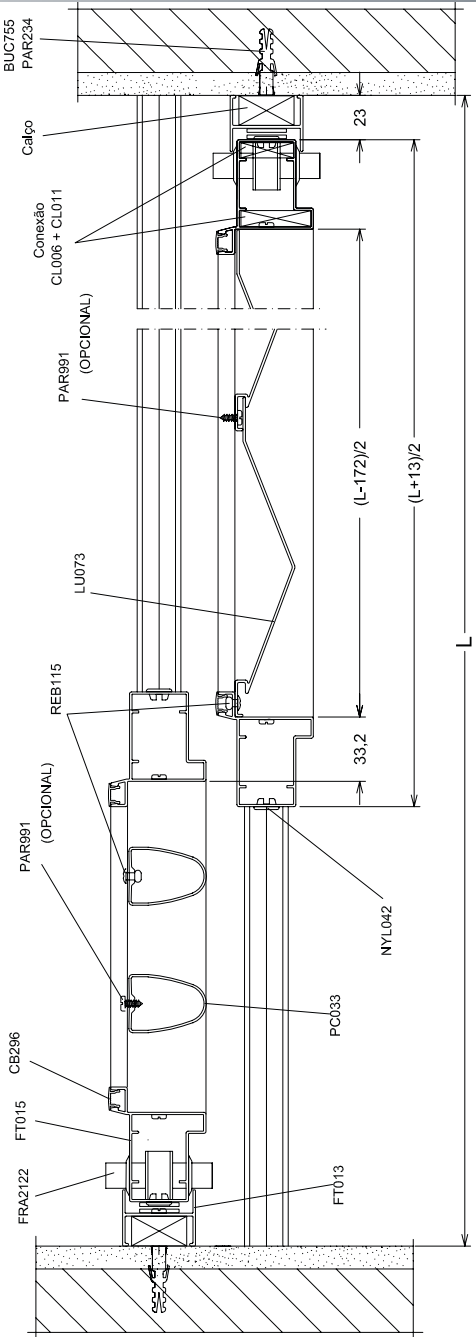


Portão Fit de correr 2 folhas com barrotes/lambris e marco baixo

ELEVAÇÃO VISTA EXTERNA



LADO EXTERNO

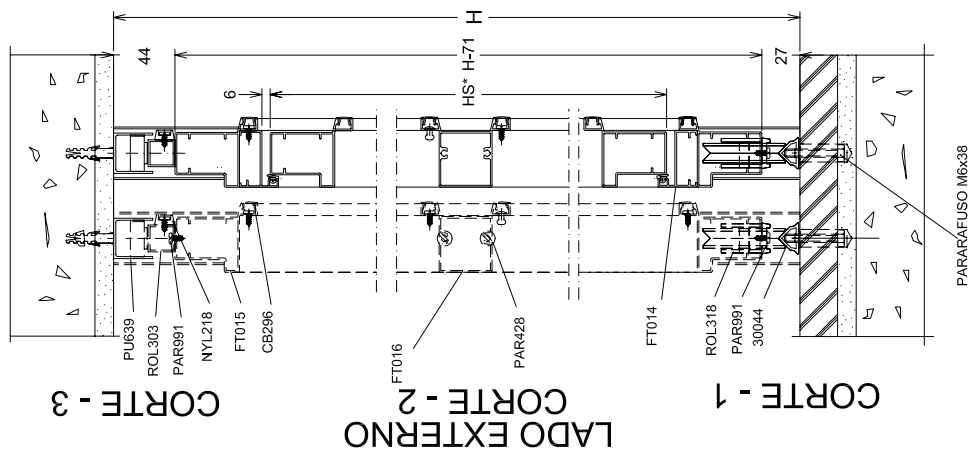
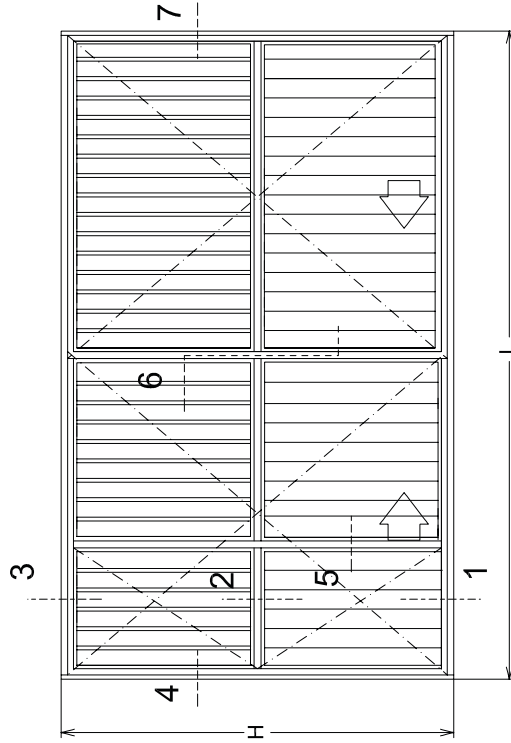


CORTE - 5
LADO EXTERNO

CORTE - 6

Portão Fit de correr 2 folhas com barrotes/lambris e marco alto

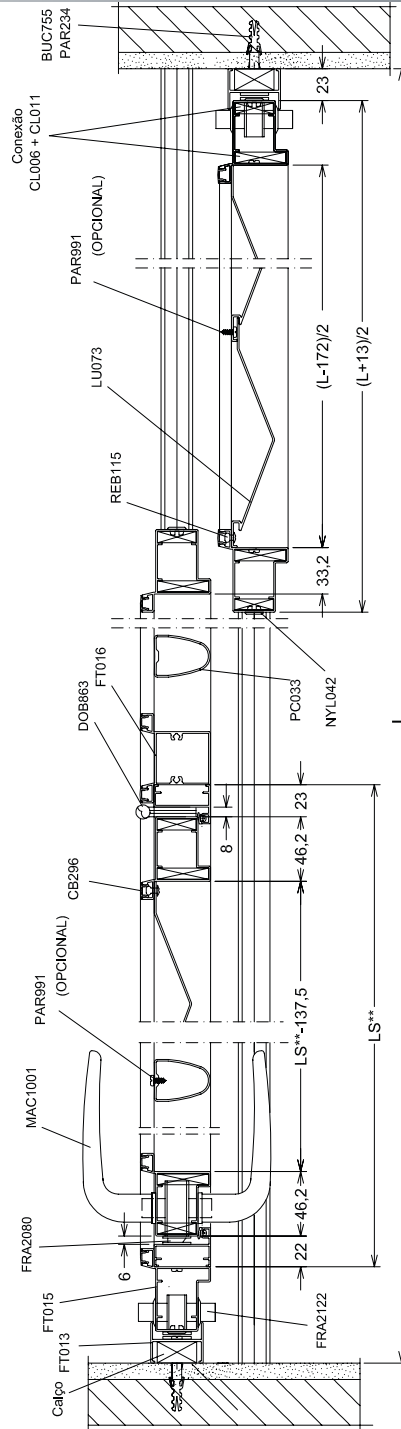
ELEVAÇÃO VISTA EXTERNA



LADO EXTERNO
CORTE - 2

CORTE - 1

CORTE - 3



CORTE - 4

CORTE - 5

CORTE - 6

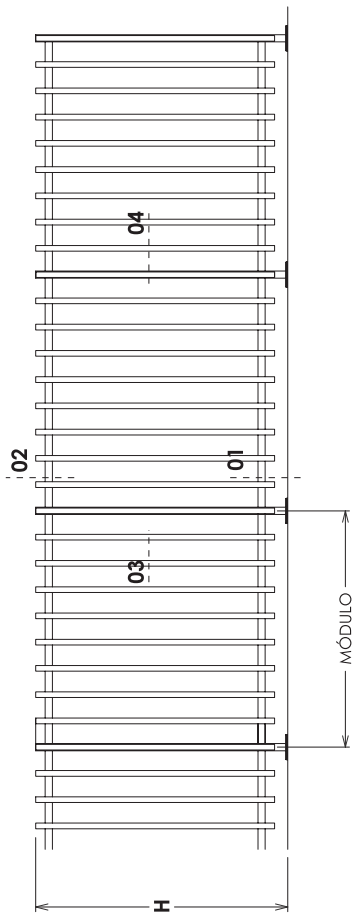
CORTE - 7

*HS: Altura do Portão Social
**LS: Largura do Portão Social

LADO EXTERNO

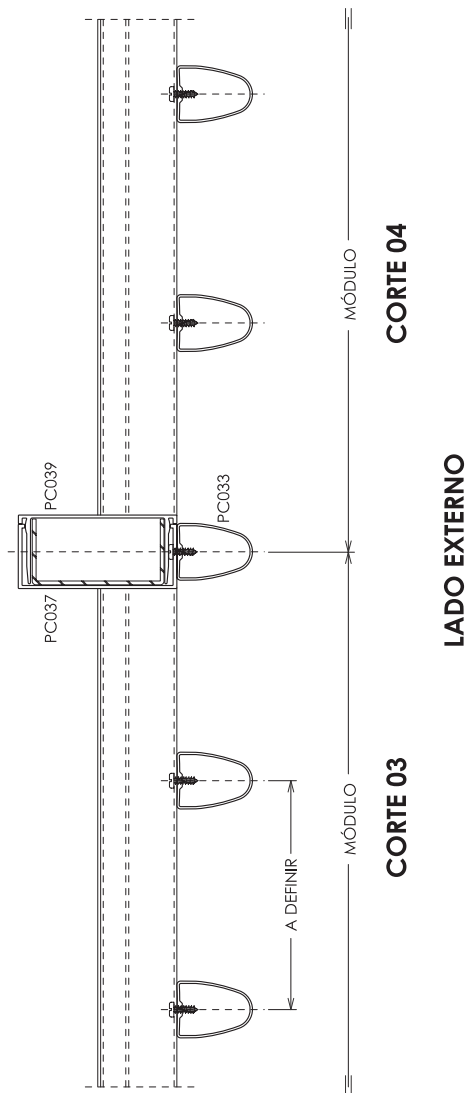
Portão Fit de correr 2 folhas com barrotes/lambris,
portão social e marco alto

ELEVAÇÃO VISTA EXTERNA

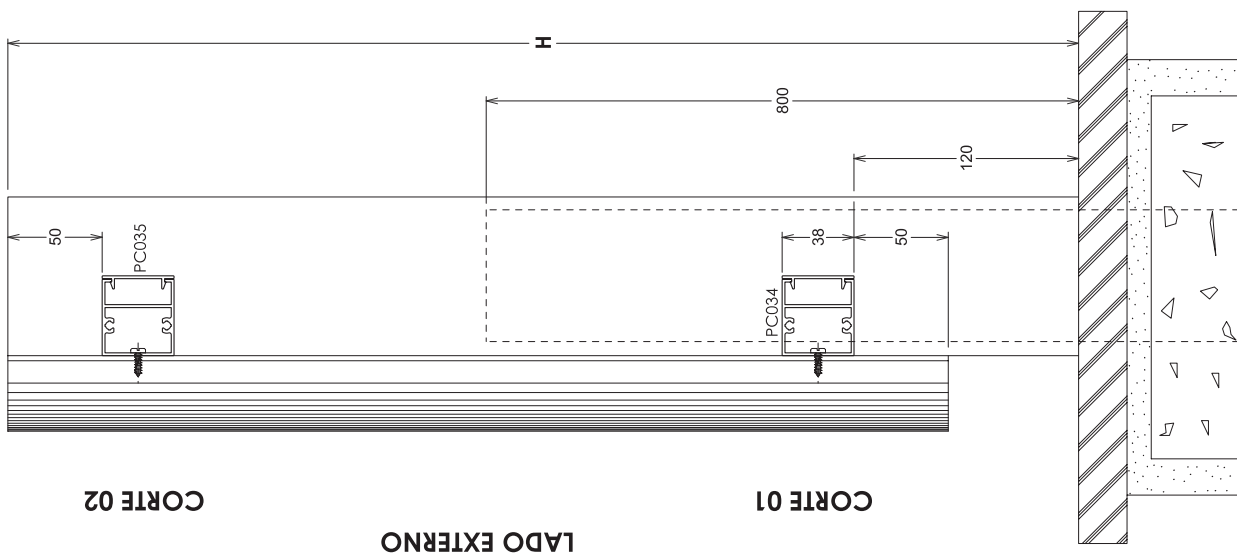


ATENÇÃO

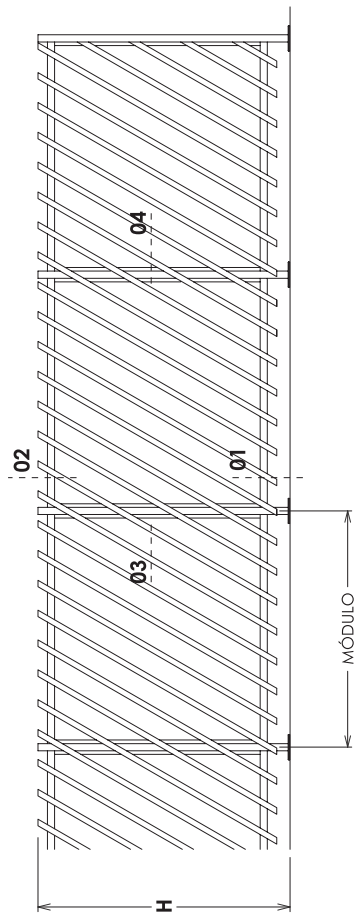
Pontaletes em chapa de aço galvanizada a fogo.
Para utilizar pontaletes em alumínio, consultar a área técnica.



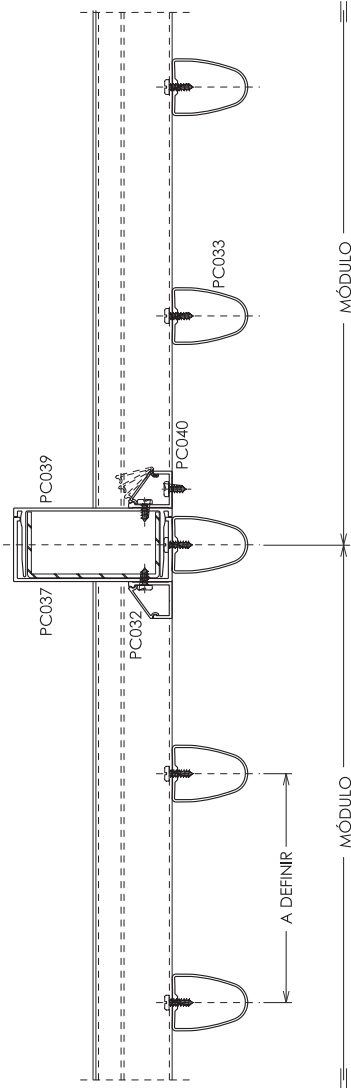
Grade com barrotes verticais



ELEVAÇÃO VISTA EXTERNA

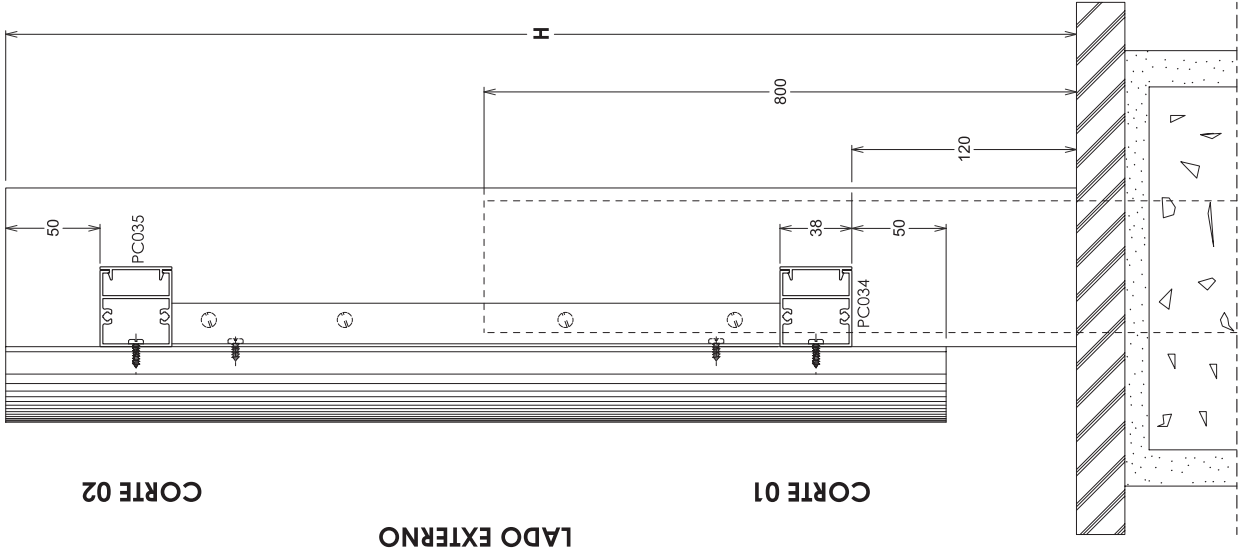


ATENÇÃO
Pontaletes em chapa de aço galvanizada a fogo.
Para utilizar pontaletes em alumínio, consultar a área técnica.



LADO EXTERNO

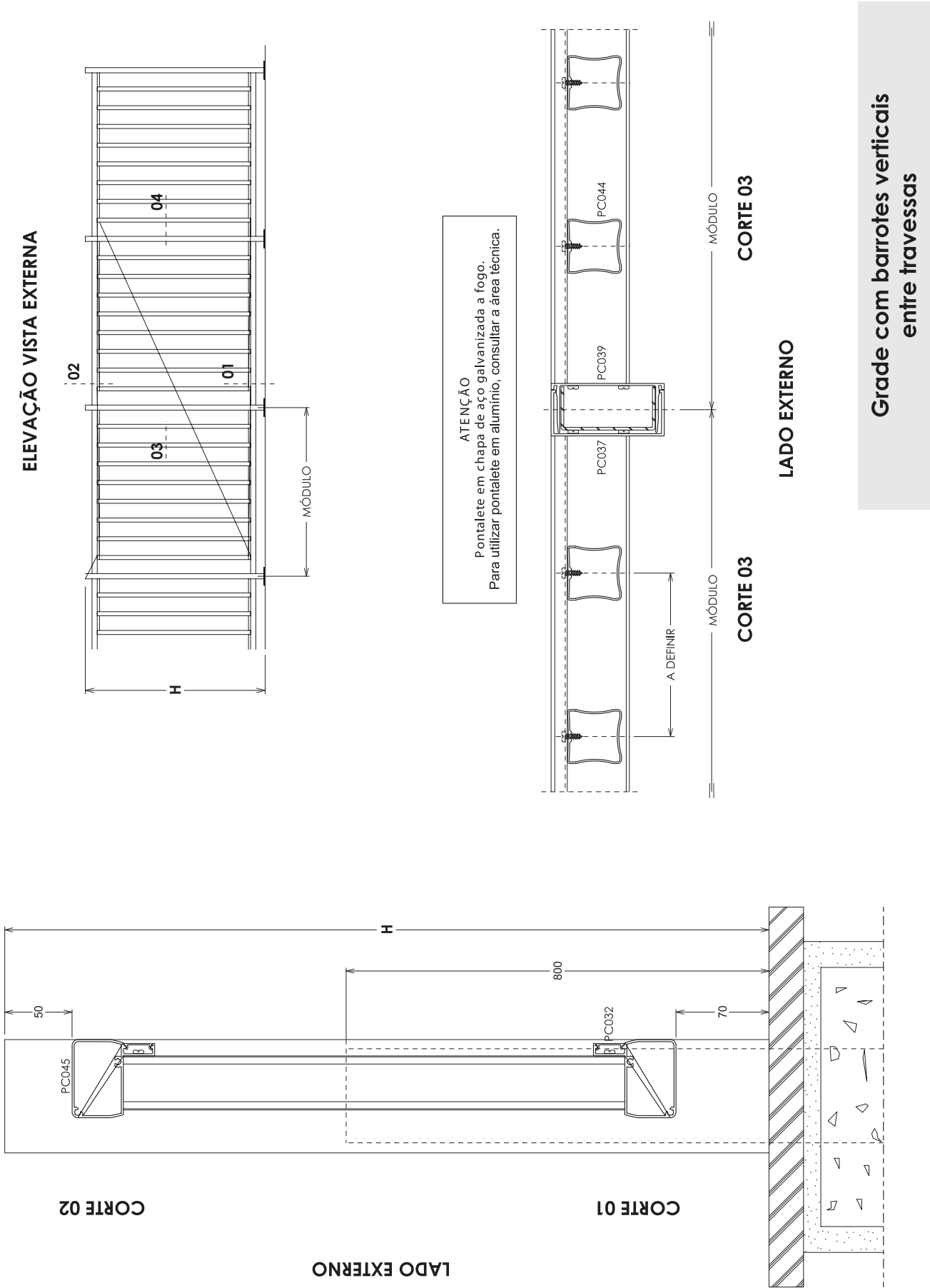
Grade com barrotes inclinados



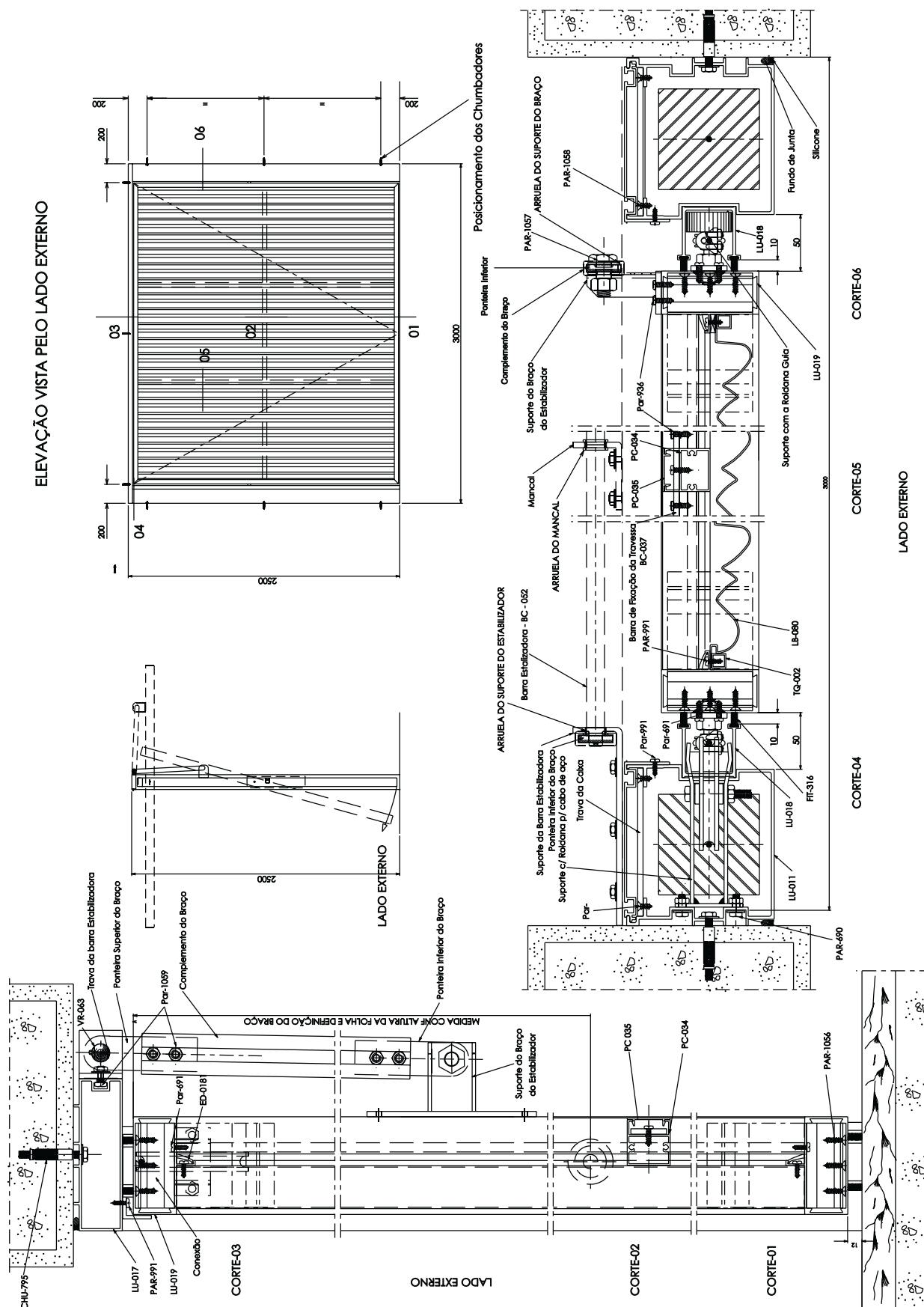
CORTE 02

CORTE 01

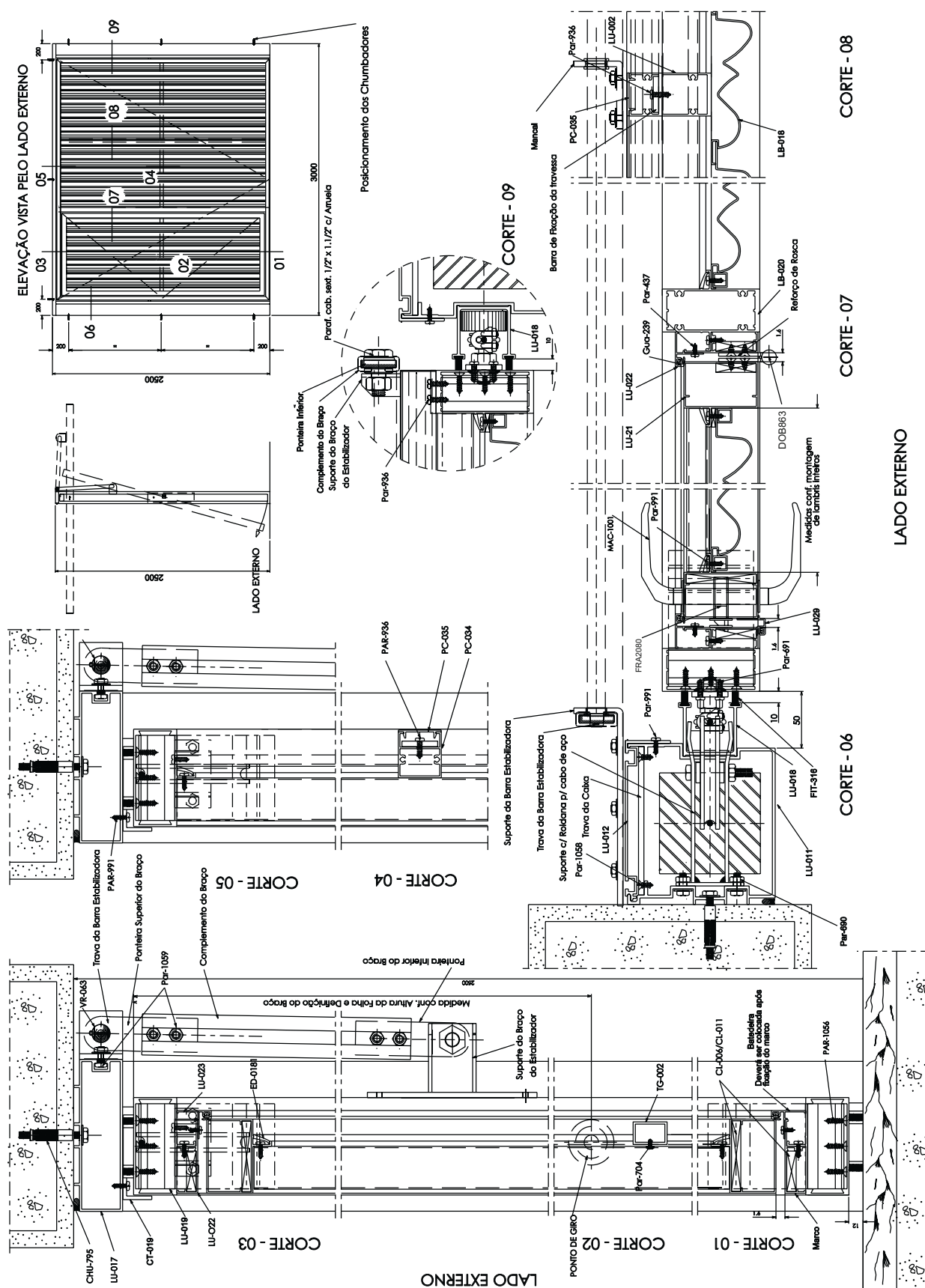
LADO EXTERNO

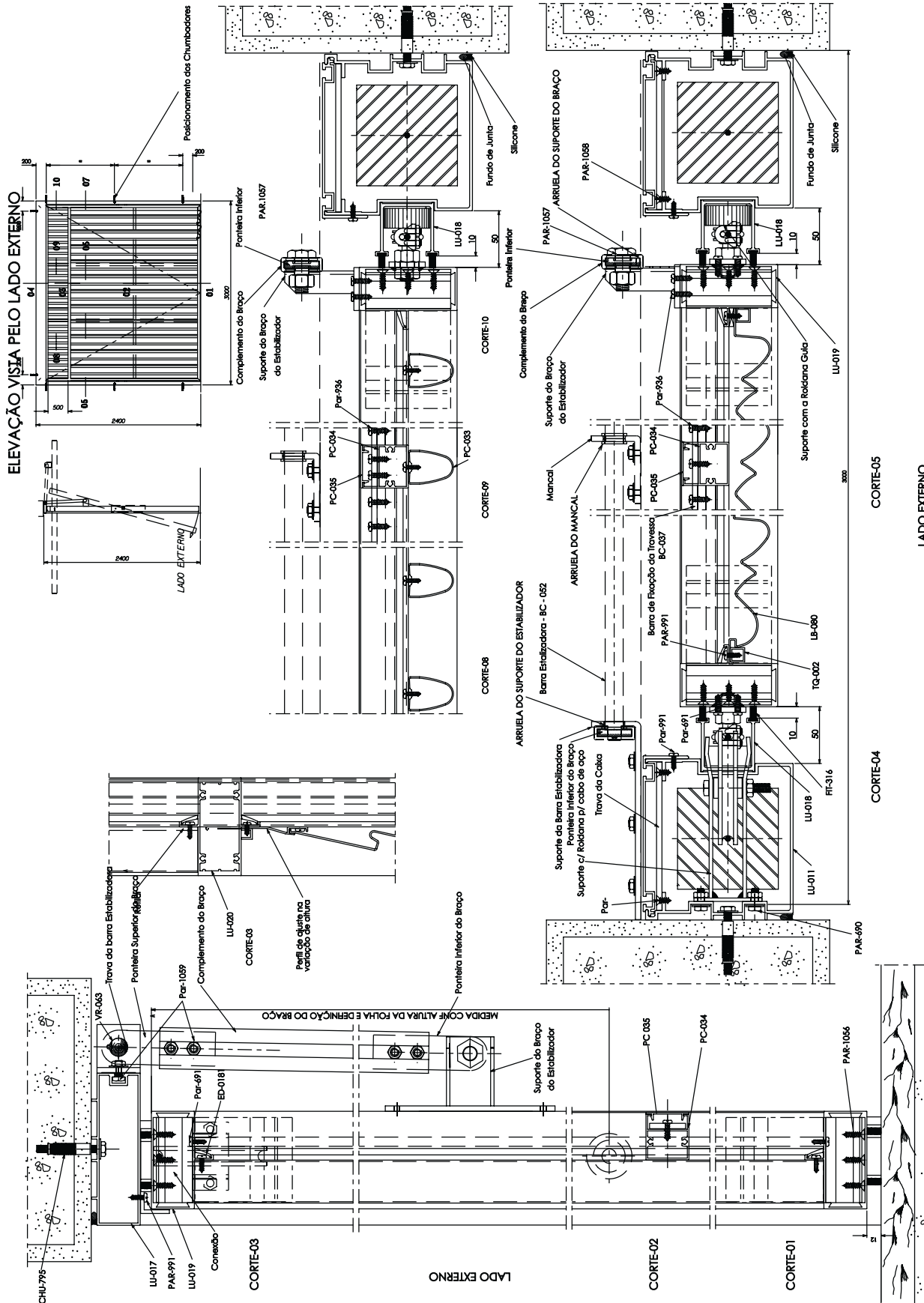


Portão Basculante de 3 MT



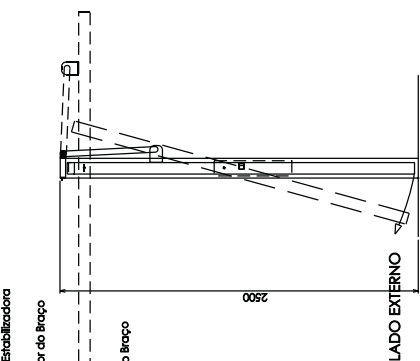
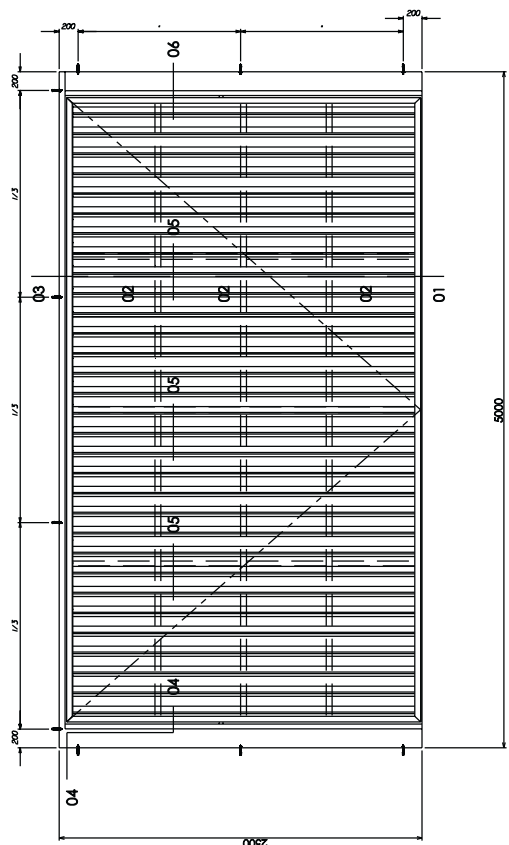
Portão Basculante de 3 MT - Porta Social



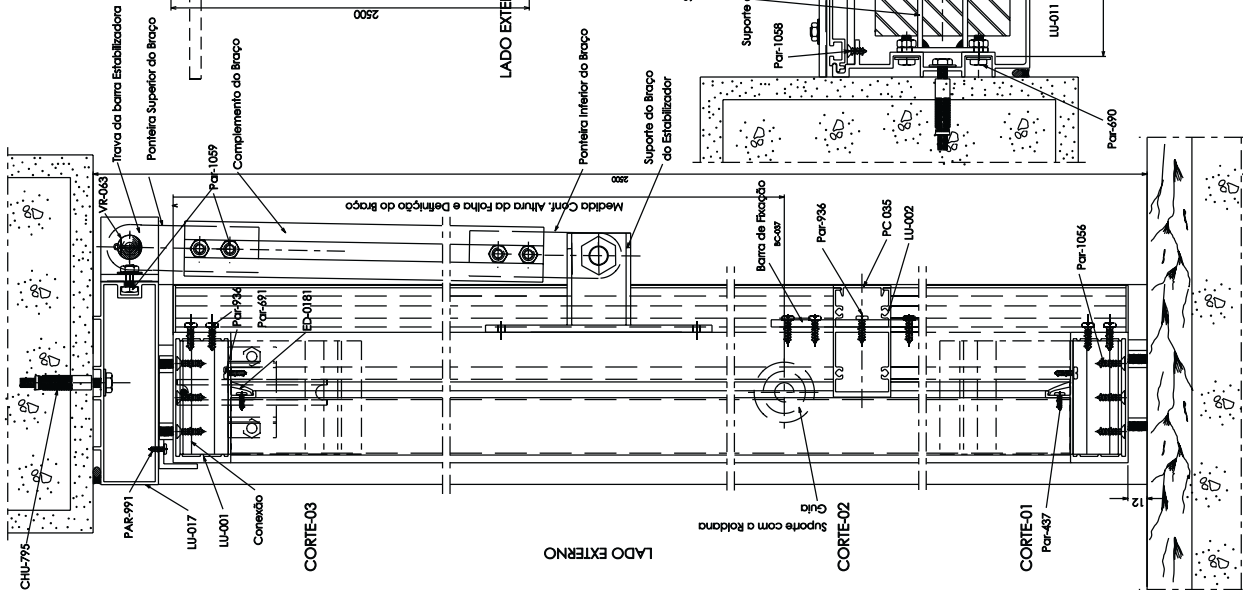




ELEVAÇÃO VISTA PELO LADO EXTERNO

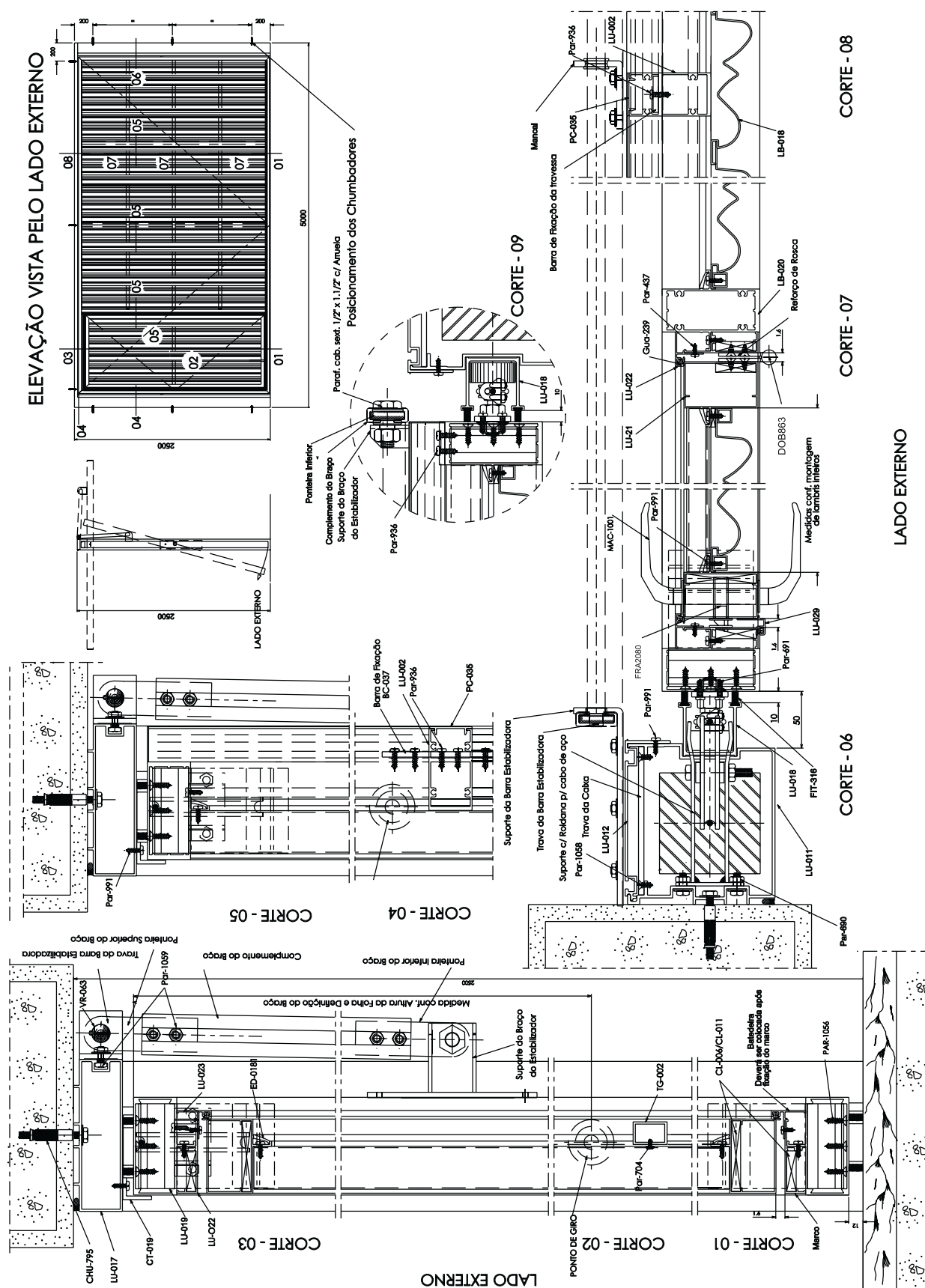


LADO EXTERNO

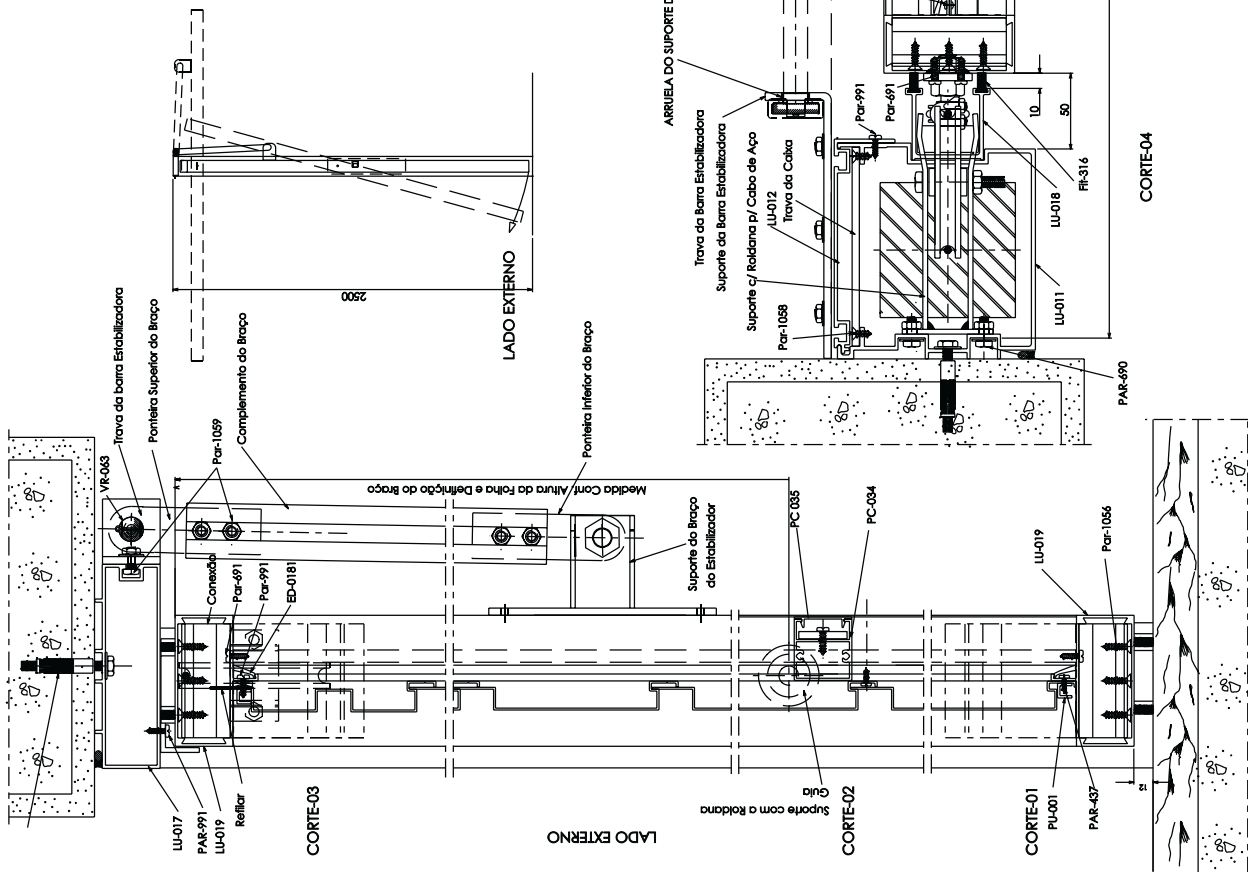
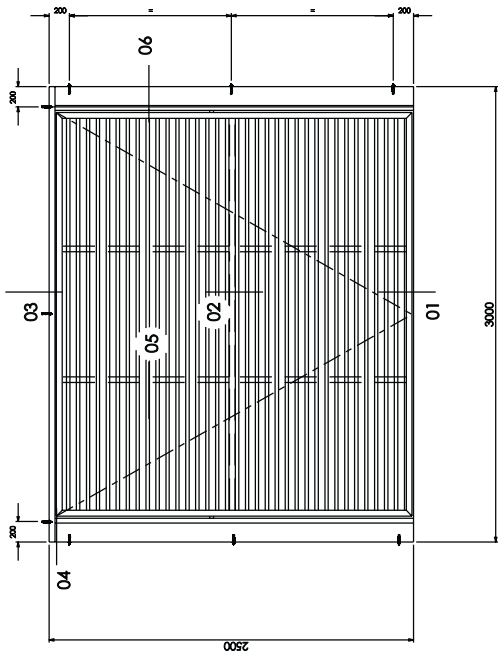


Portão Basculante de 5 MT

Portão Basculante de 5 MT - Porta Social

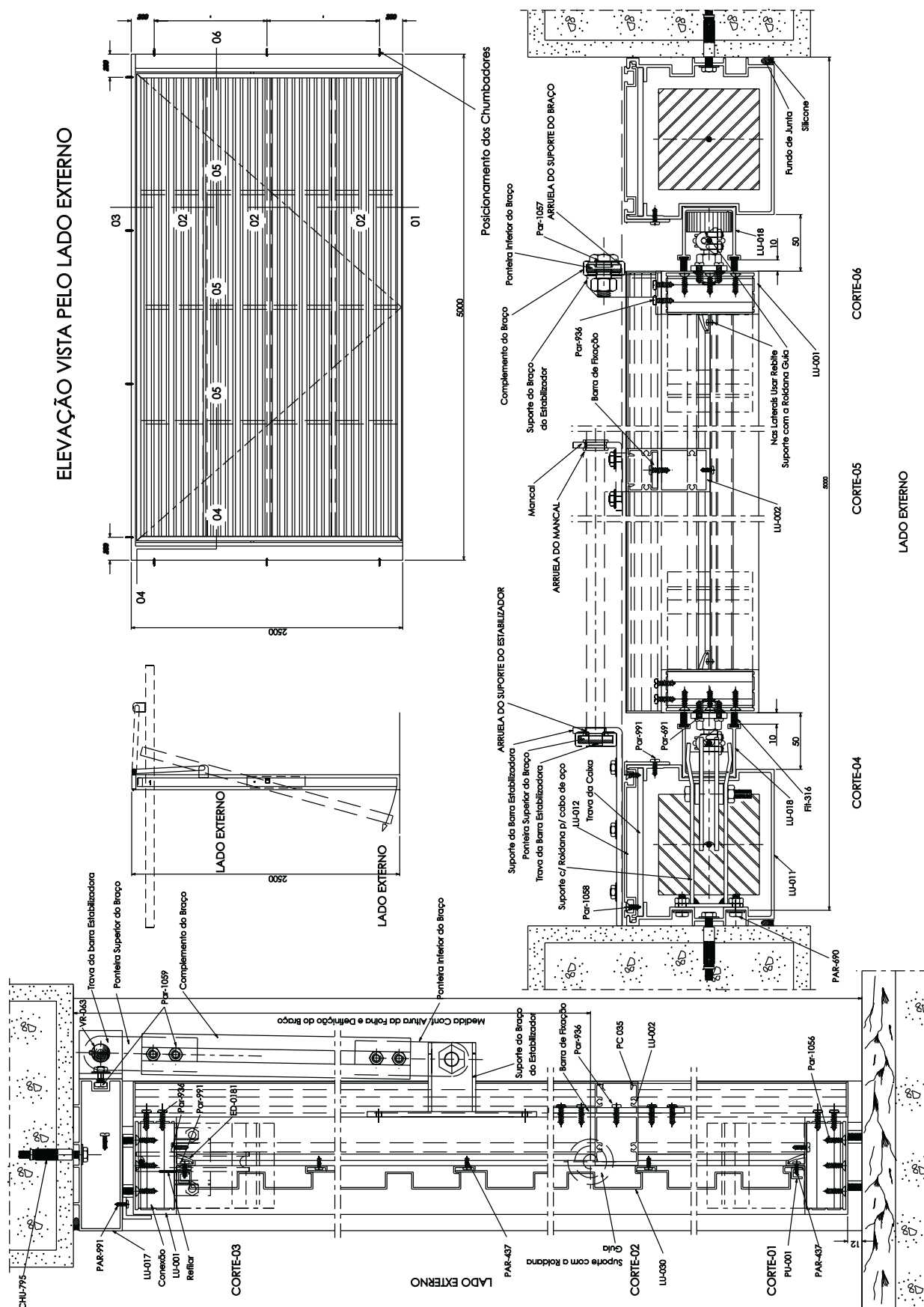


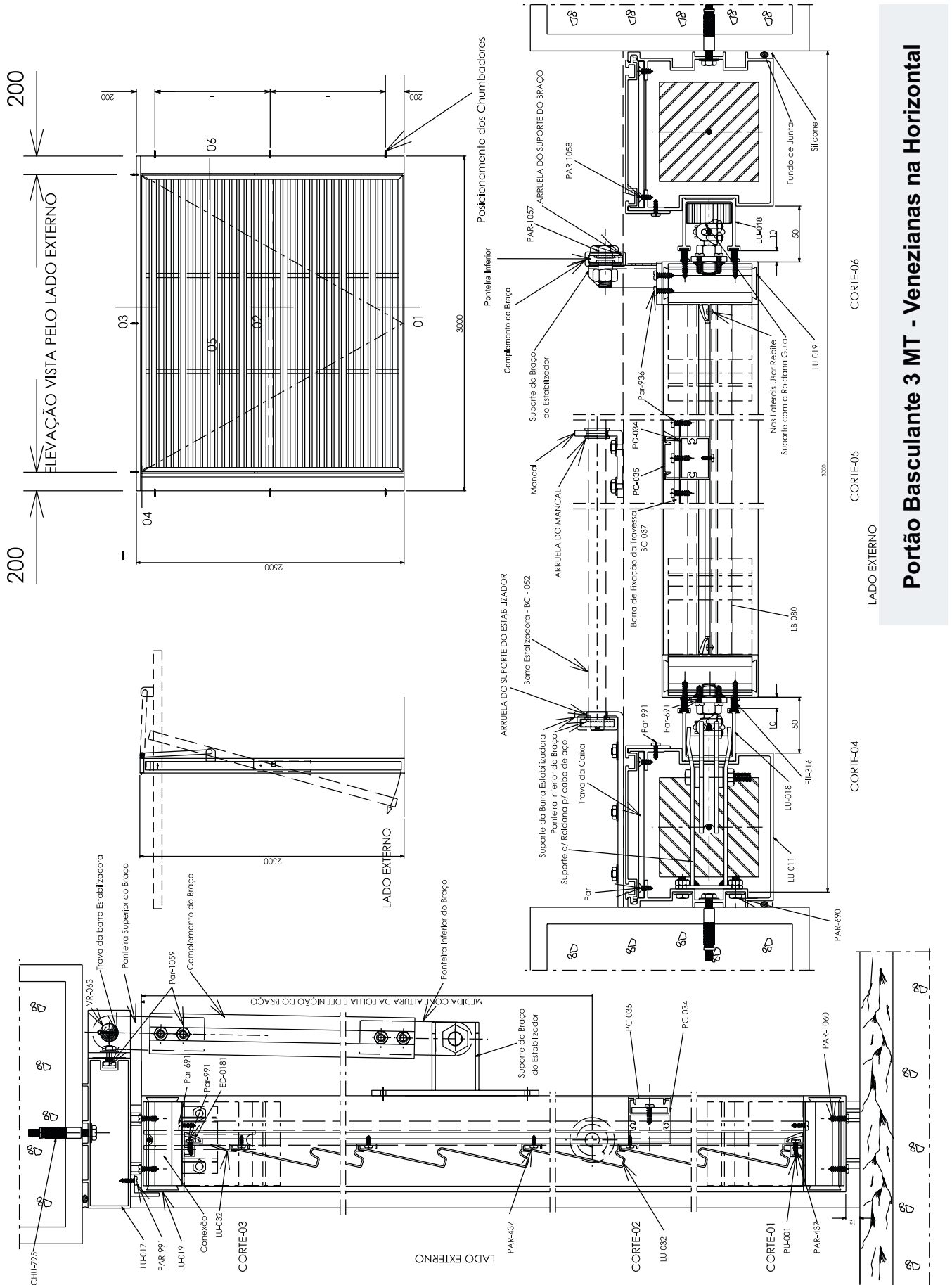
ELEVAÇÃO VISTA PELO LADO EXTERNO



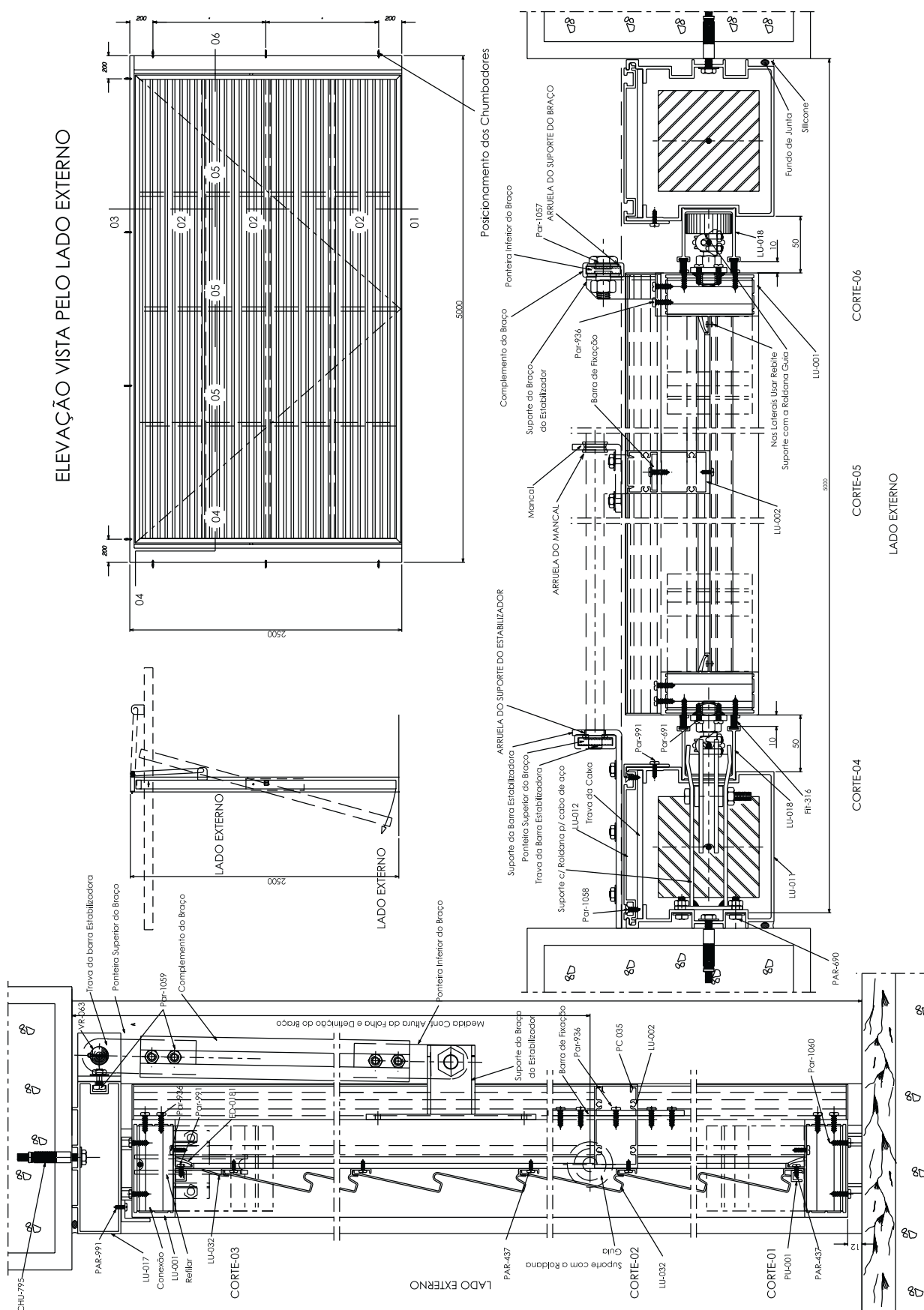
Portão Basculante de 3 MT - Lambris na Horizontal

Portão Basculante de 5 MT - Lambris na Horizontal



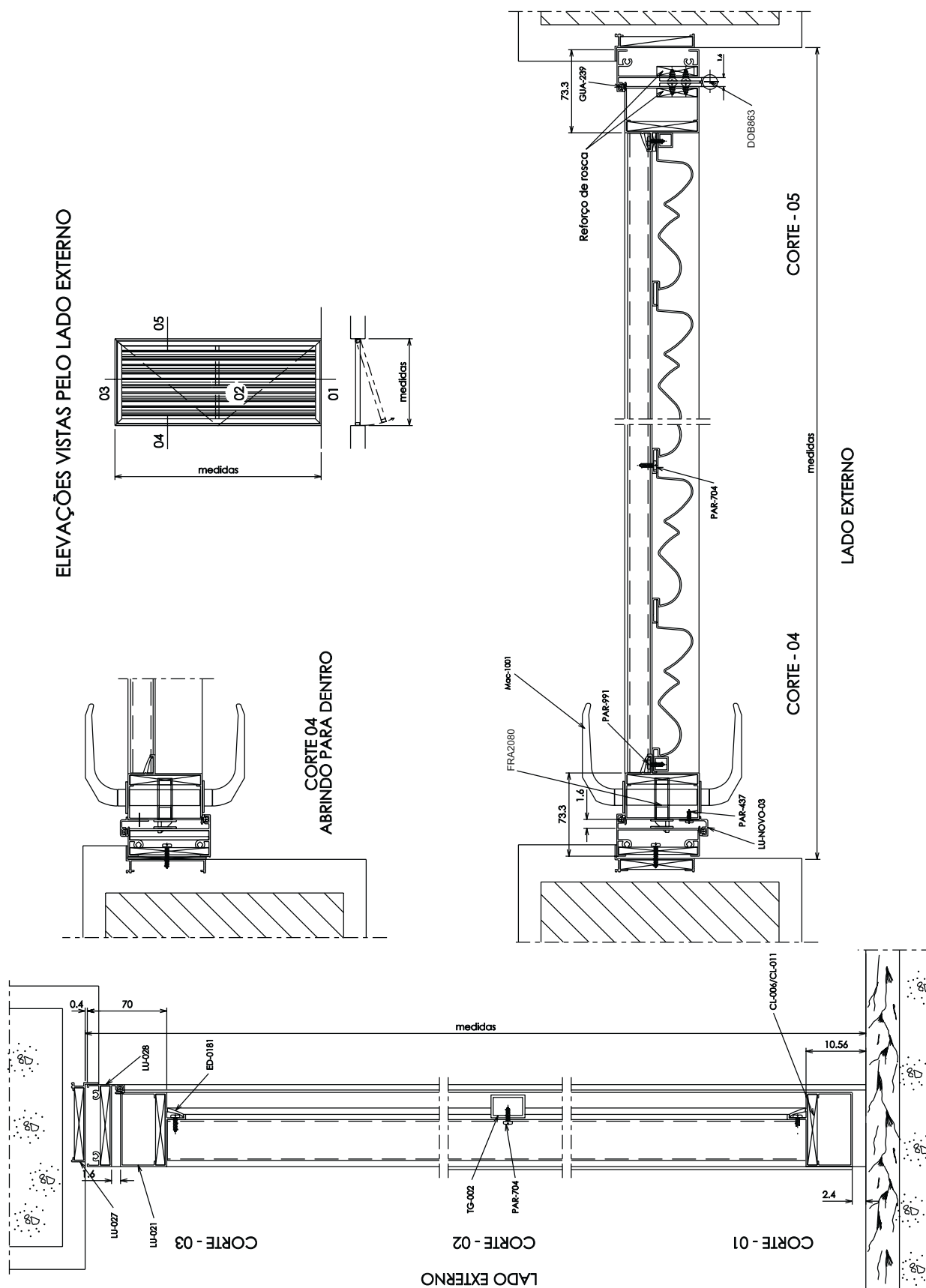


ELEVAÇÃO VISTA PELO LADO EXTERNO



Portão Basculante 5 MT - Venezianas na Horizontal

Porta Independente



UNIVERSAL

PORTÃO®

Histórico de Atualizações

[illegible]

UNIVERSAL

PORTÃO®

Catálogo Universal Portão®

Edição 01

www.hydroextrusions.com

