

# FC

sistema de fachadas ligeras

FC Estructural | FC Horizonte | FC Semi-oculta | FC Oculta





## FC

## sistema de fachadas ligeiras

**FC Estrutural**

A variante FC Estrutural transcreve toda a imponência do sistema através de vistas bem marcadas. Aliada à robustez estética existe ainda a mais valia da rutura térmica proporcionada por este sistema.

Capa: Vista retas ou redondas em montantes e travessas  
 Aberturas: Batente para interior/exterior (com perfil visível)  
 Projetante, com caixilho móvel (oculto pelo exterior)  
 Enchimento: De 12 a 47mm

**FC Horizonte**

Quando o objectivo passa por marcar a horizontalidade, esta vertente do sistema FC responde na perfeição às solicitações, conferindo um toque de elegância ao resultado final.

Capa: Decorativa, exterior horizontal contínua  
 Aberturas: Projetante, com caixilho móvel (oculto pelo exterior)  
 Vedação: Junta vertical em EPDM  
 Enchimento: De 12 a 47mm

**FC Semi-oculta**

Apesar de uma grande volumetria estrutural, a variante FC Semi-oculta confere uma imagem esbelta aos edifícios, marcada com uma frente inferior a 20mm de perfil.

Aliada à simplicidade estética existe ainda a mais valia opcional da ruptura térmica proporcionada por este sistema.

Vedação: Caixilho com moldura visível exterior de 12mm ou 20mm  
 Aberturas: Projetantes  
 Enchimento: De 6 a 30mm

**FC Oculta**

A FC Oculta é a perfeita simbiose entre a estrutura de alumínio e a transparência do vidro, atingindo a sua plenitude com a ocultação da perfilaria exterior.

Vedação: Moldura não visível  
 Aberturas: Projetantes  
 Enchimento: De 6 a 30mm

**PERFORMANCE**

A elevada durabilidade do sistema FC atribui-lhe um carácter intemporal. A grande versatilidade funcional permite dar resposta às mais exigentes estruturas arquitetónicas.

Com a fiabilidade estrutural assumida, são oferecidas várias imagens de apresentação que vão ao encontro das necessidades do mercado.

**QUALIDADE**

O sistema é controlado desde a produção dos perfis de alumínio até a colocação em obra através de instaladores devidamente credenciados.

Os materiais utilizados no sistema FC são de grande qualidade e resistência nomeadamente:

- Perfis de alumínio extrudidos na liga AL MG SI - 05 F22 com dureza T5.
- Acessórios de câmara europeia da marca SAVIO, empresa italiana de grande prestígio europeu com certificação ISO9001.
- Vedantes e topos em E.P.D.M. para uma estanquidade e permeabilidade superior.

# RESULTADOS DE ENSAIOS LNEC - PARA EFEITOS MARCAÇÃO CE

Dimensão das fachadas ensaiadas: 5110 x 6250 mm

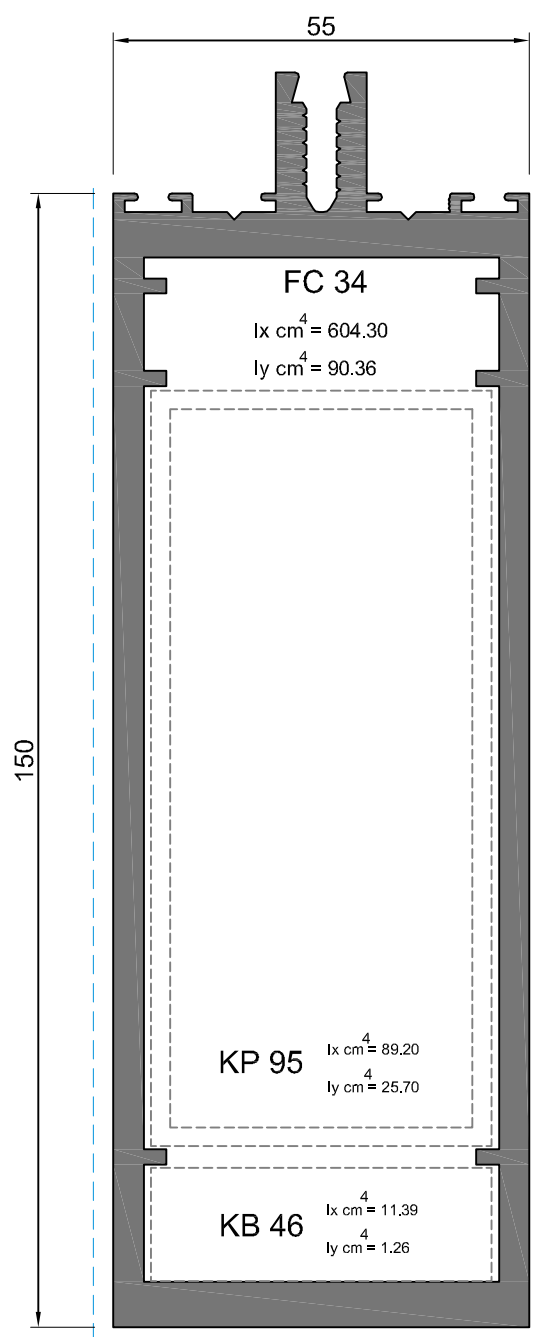
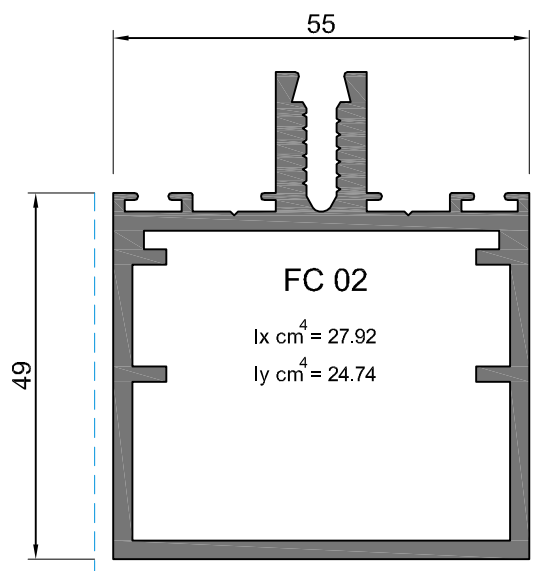
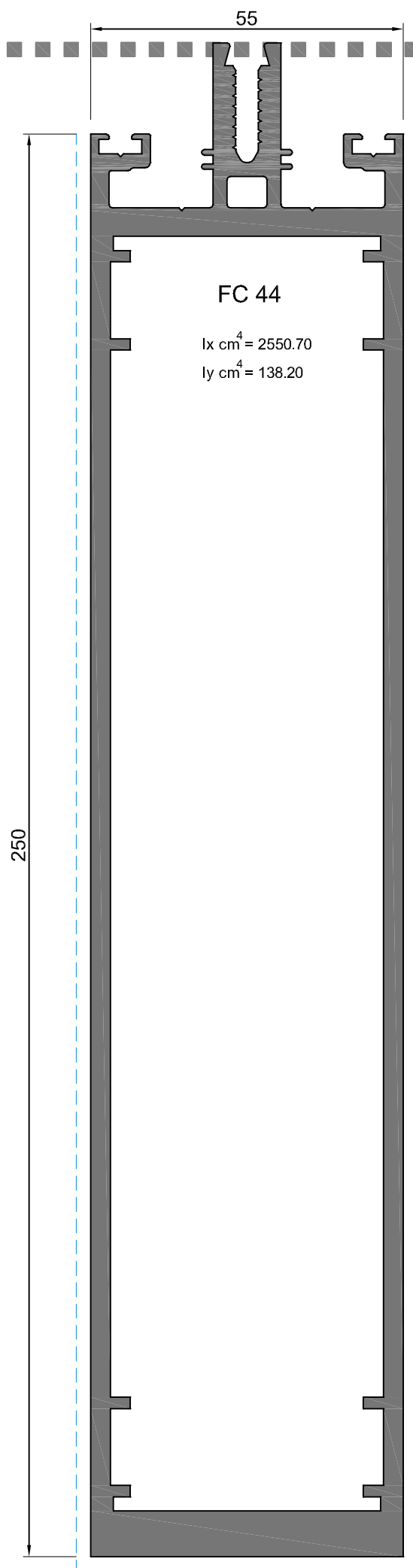
Fachada Estrutural Fachada Horizonte	Com 1 vão Projetante e 1 vão Oscilo-batente	Vão Fixo
Permeabilidade ao AR UNE-EN 12153:2000	Classe A3	Classe A4
Estanquidade à ÁGUA UNE-EN 12155:2000	Classe RE 1050	Classe RE 1500
Resistência ao VENTO UNE-EN 12179:2001	APTO (1500Pa)	APTO (1500Pa)
Coef. Transm. TÉRMICA UNE-ISO 13947:2005 FACHADA COM 2500 x 3400mm	$U_w = 1,43 \text{ W/m}^2\text{K}$ $U_g \text{ do vidro } 8+16+6 = 1,3 \text{ W/m}^2\text{K}$	

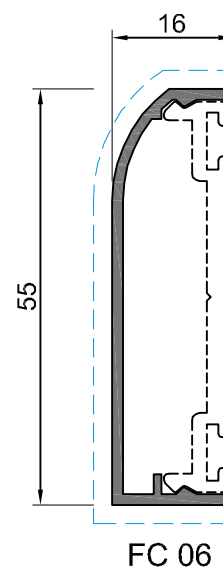
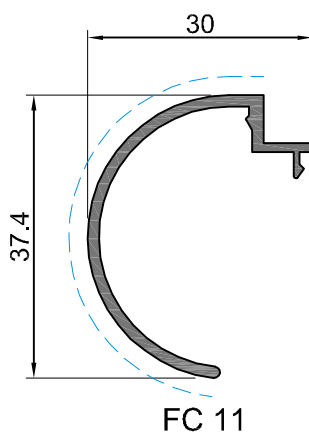
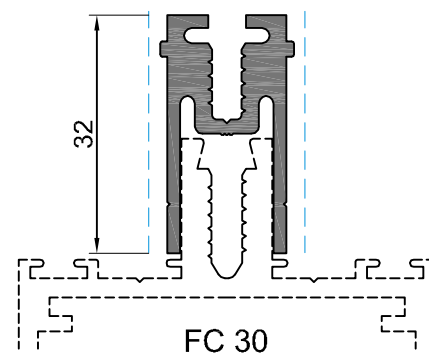
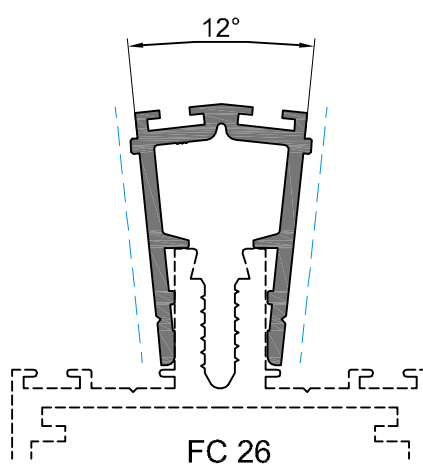
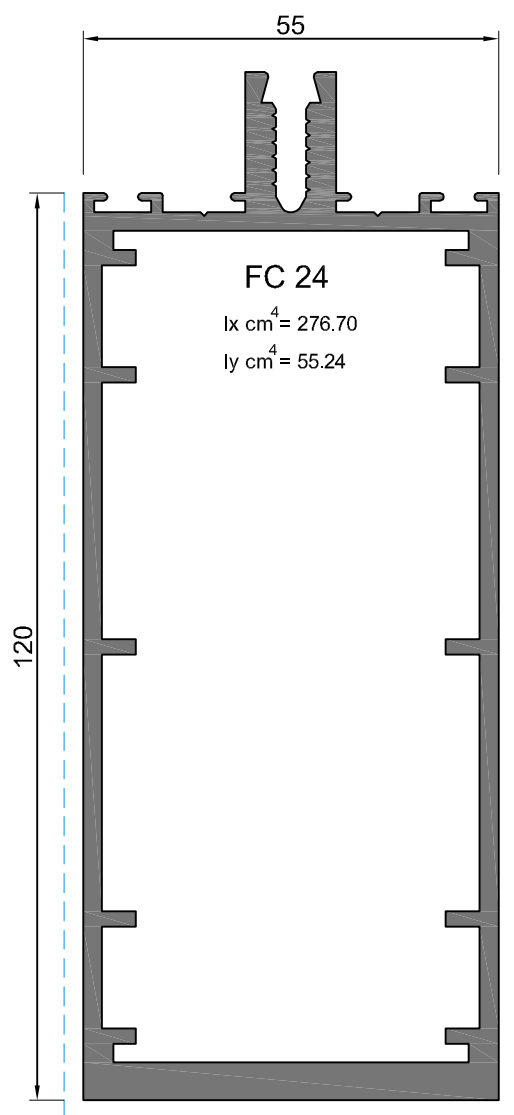
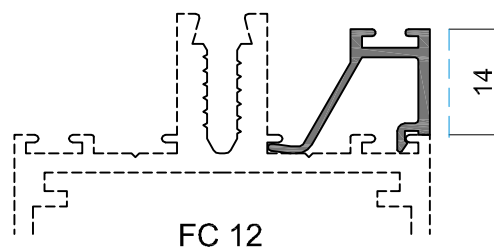
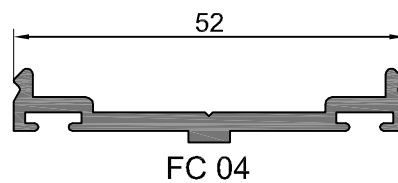
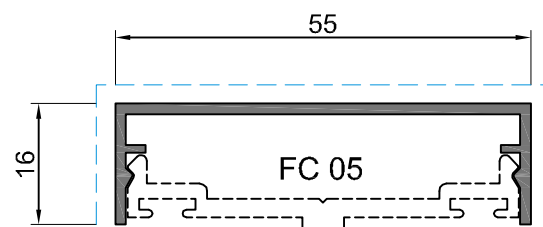
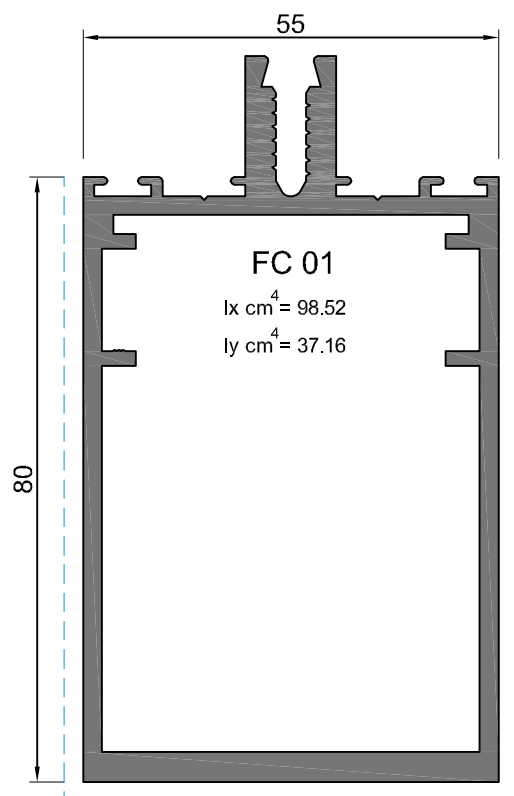
Fachada Semi-Ocultas	Com 1 vão Projetante	Vão Fixo
Permeabilidade ao AR UNE-EN 12153:2000	Classe AE750 (Especial)	Classe AE750 (Especial)
Estanquidade à ÁGUA UNE-EN 12155:2000	Classe RE 1500	Classe RE 1500
Resistência ao VENTO UNE-EN 12179:2001	APTO (1500Pa)	APTO (1500Pa)
Coef. Transm. TÉRMICA UNE-ISO 13947:2005 FACHADA COM 2500 x 3400mm	$U_w = 1,45 \text{ W/m}^2\text{K}$ $U_g \text{ do vidro } 8+16+6 = 1,3 \text{ W/m}^2\text{K}$	

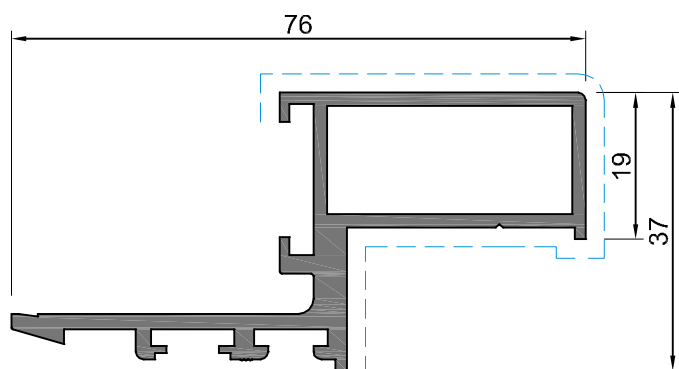
Fachada Oculta	Com 1 vão Projetante	Vão Fixo
Permeabilidade ao AR UNE-EN 12153:2000	Classe AE750 (Especial)	Classe AE750 (Especial)
Estanquidade à ÁGUA UNE-EN 12155:2000	Classe RE 1500	Classe RE 1500
Resistência ao VENTO UNE-EN 12179:2001	APTO (1500Pa)	APTO (1500Pa)
Coef. Transm. TÉRMICA UNE-ISO 13947:2005 FACHADA COM 2500 x 3400mm	$U_w = 1,43 \text{ W/m}^2\text{K}$ $U_g \text{ do vidro } 8+16+6 = 1,3 \text{ W/m}^2\text{K}$	

	Resistência às Cargas Vivas Horizontais UNE-EN 1991-1-1:2003 Fachada com 5110 x 6250mm)	Resistência ao Impacto UNE-EN 14019:2004 (Fachadas) UNE-EN 13049:2003 (Janelas) Fachada com 2500 x 2500mm)	Resistência ao Peso Próprio UNE-EN 13830:2004 Fachada com 2490 x 1200mm)
Fachada Estrutural	APTO (1500Pa)	Classe I5	1,08KN Flecha máxima 3mm
Fachada Semi-Ocultas	APTO (1500Pa)	Classe I5	1,08KN Flecha máxima 3mm
Fachada Oculta	APTO (1500Pa)	Classe I5	1,08KN Flecha máxima 3mm

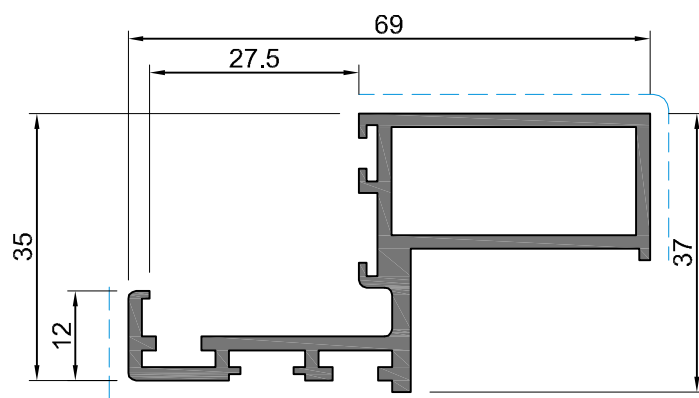




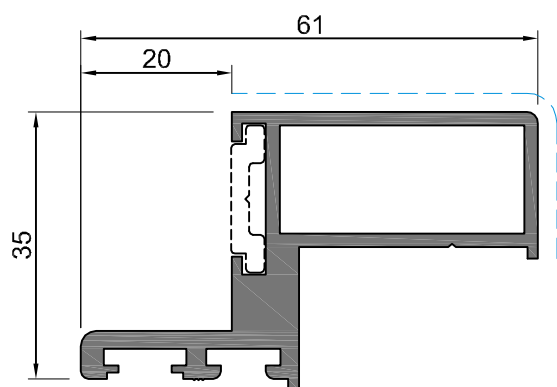




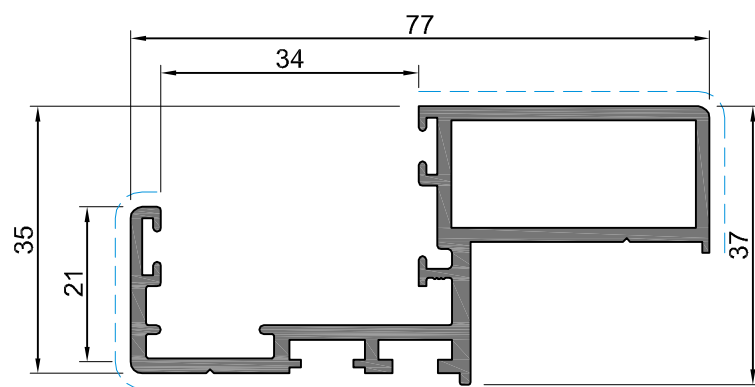
FC 54



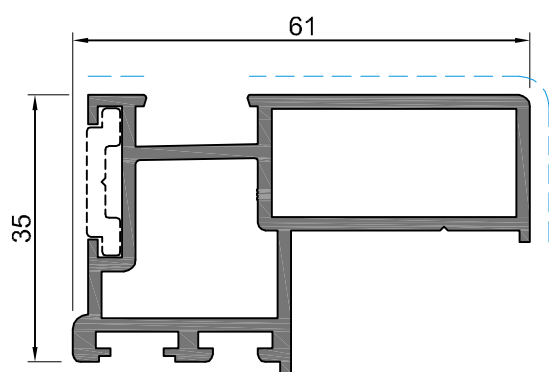
FC 15



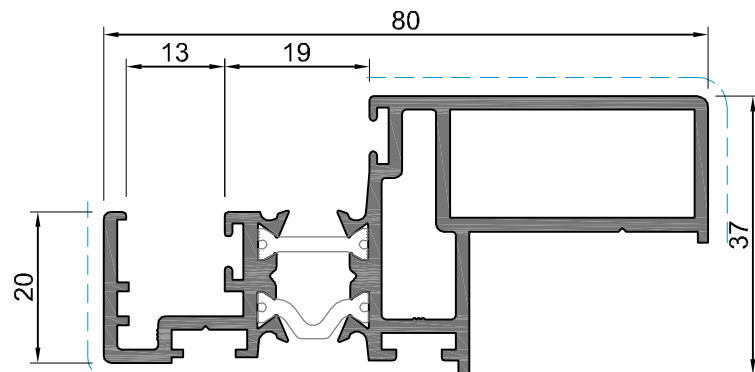
FC 14



FC 45



FC 23

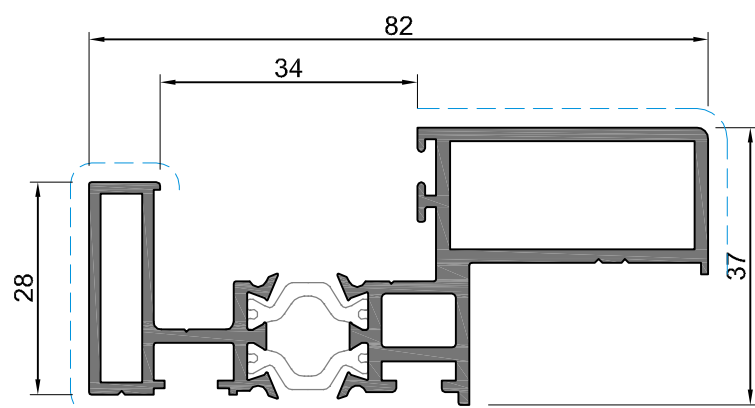


FC 35

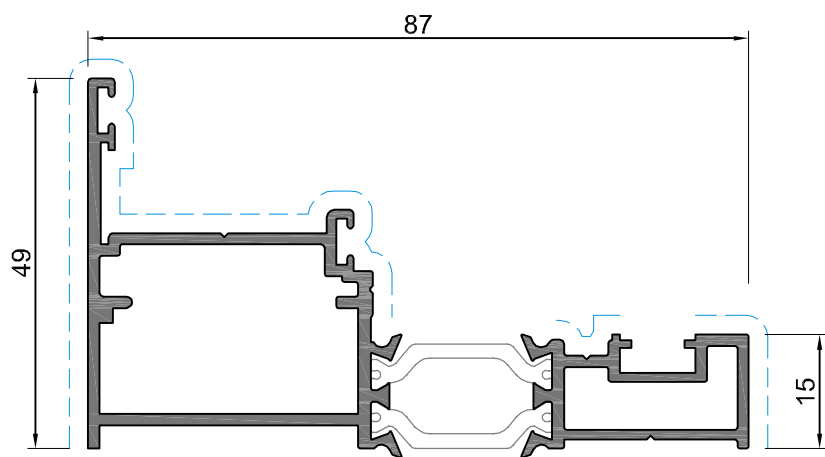


SA 33

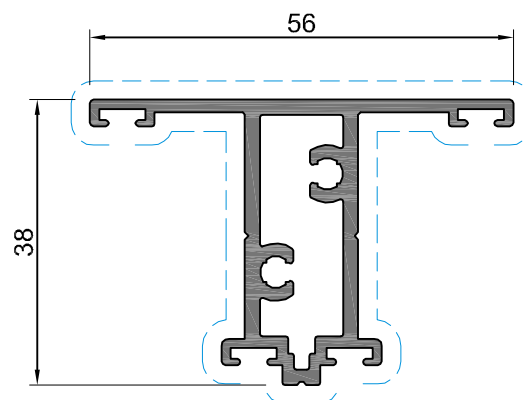
(ANODIZADO COM >20microns)



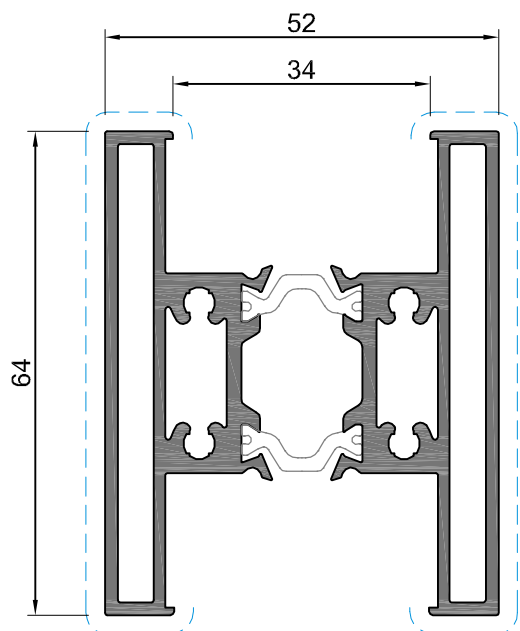
FC 65



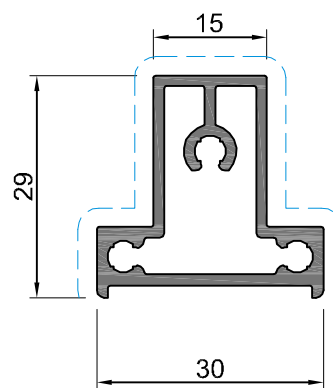
FC 66



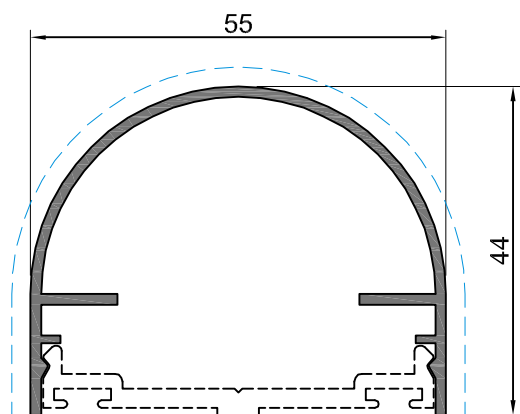
FC 69



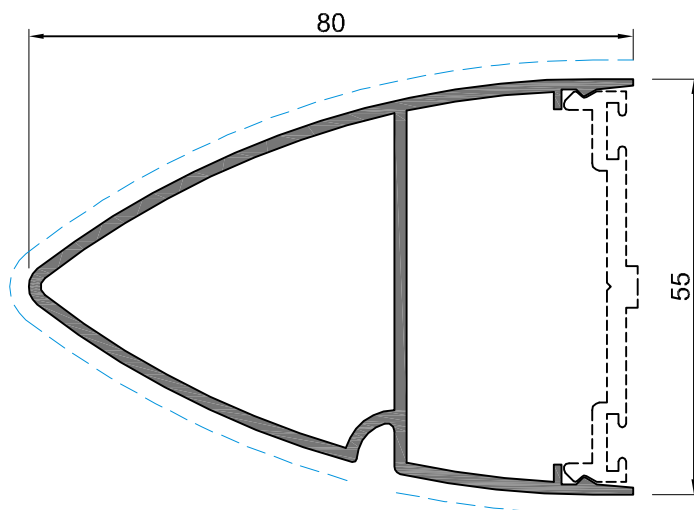
FC 67



FC 68

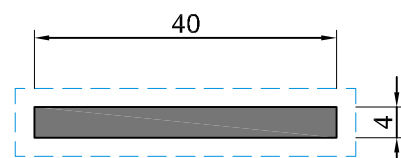
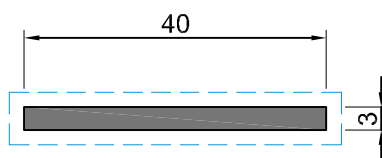
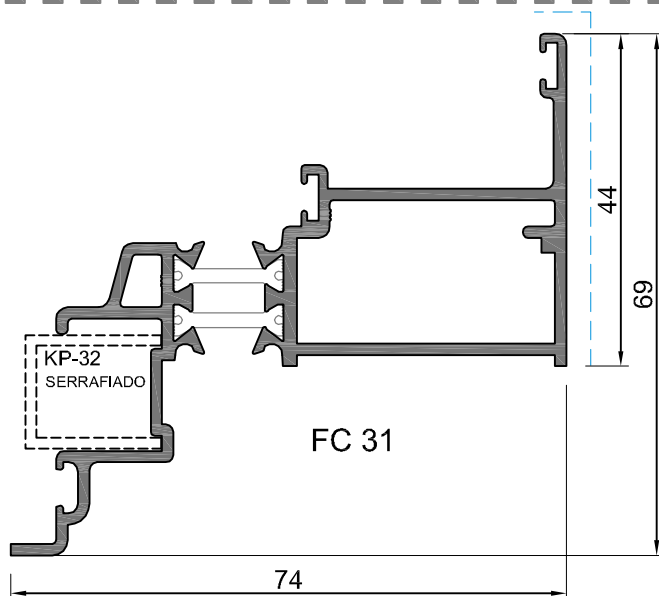
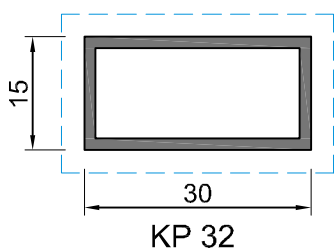
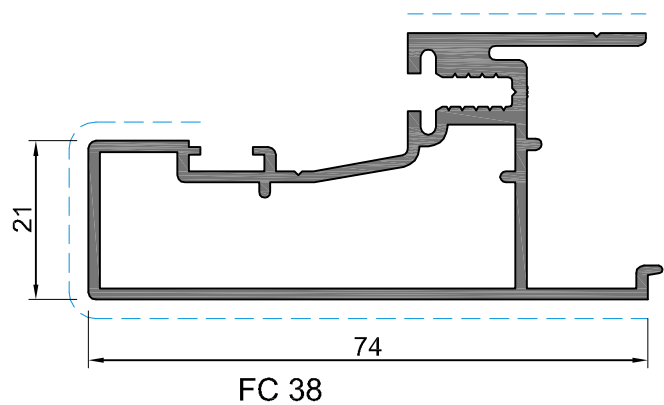


FC 22

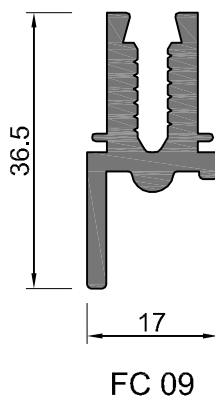
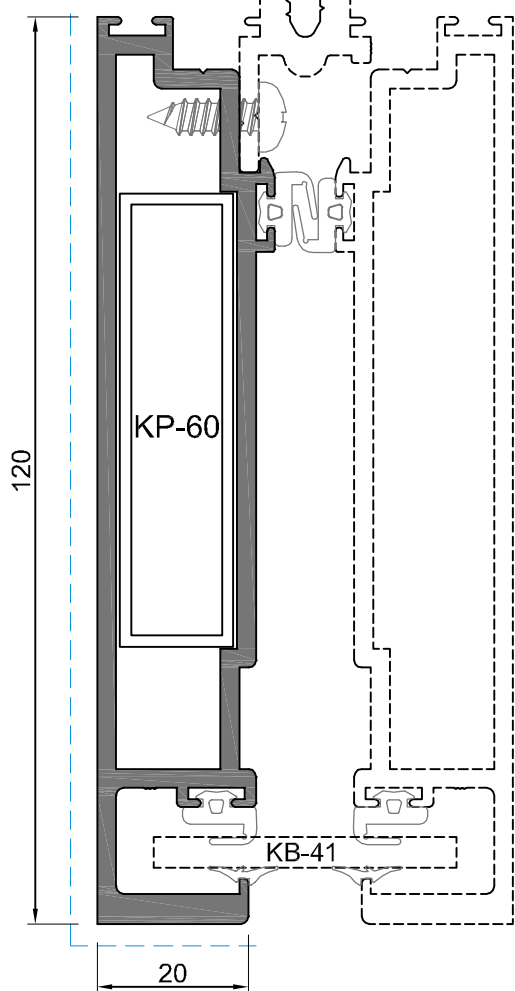


FC 25

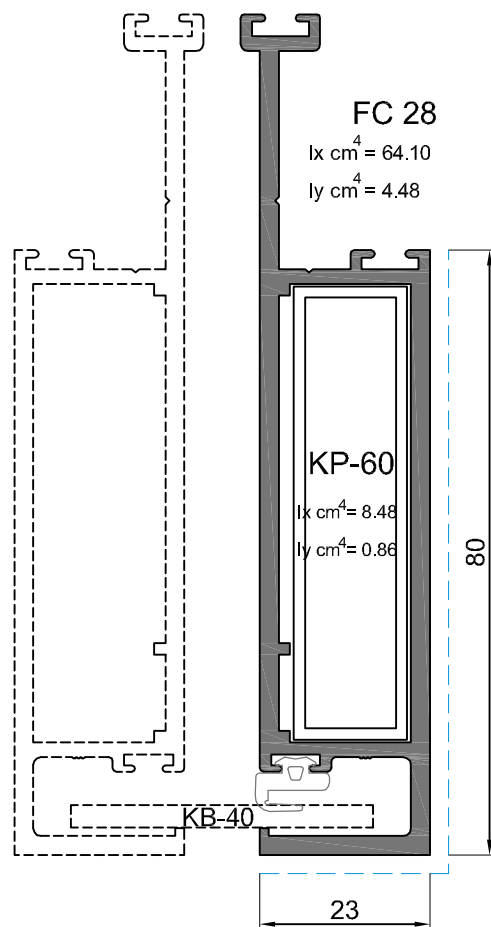




FC 08  
 $I_x \text{ cm}^4 = 104.18$   
 $I_y \text{ cm}^4 = 4.99$



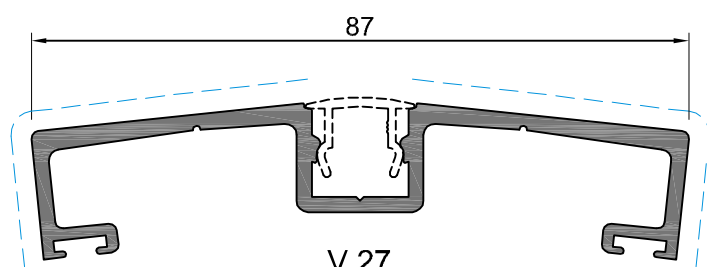
FC 28  
 $I_x \text{ cm}^4 = 64.10$   
 $I_y \text{ cm}^4 = 4.48$



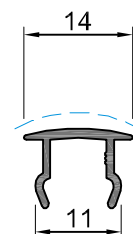
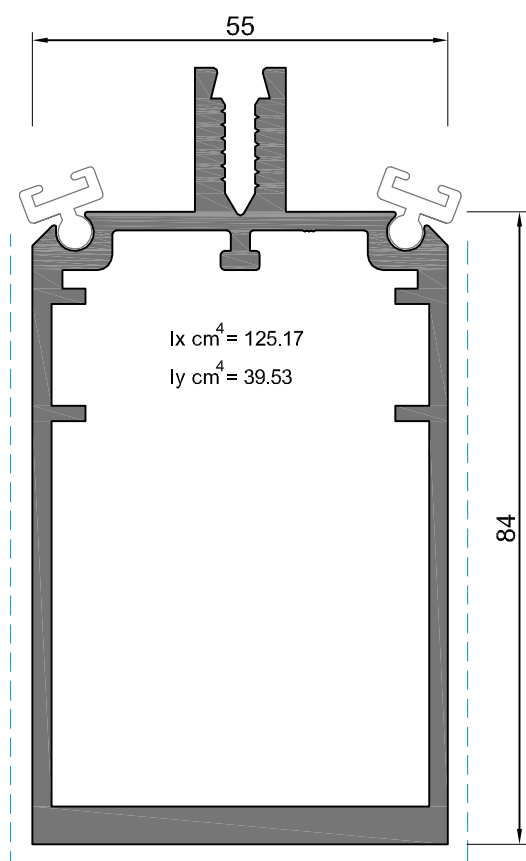
PERFIL FC 08 PARA JUNTA DE DILATAÇÃO, REMATE LATERAL OU ÂNGULOS EM FC SEMI-OCULTA OU OCULTA APLICAR UNICAMENTE COM O MONTANTE FC 24

PERFIL FC 28 PARA JUNTA DE DILATAÇÃO, REMATE LATERAL OU ÂNGULOS EM FC SEMI-OCULTA OU OCULTA

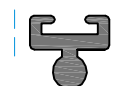
PERFIS PARA ÂNGULOS DE 6 ATÉ 22°



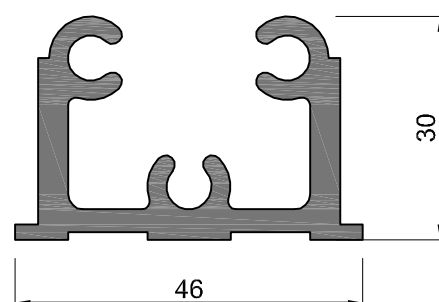
NOTA: PARA ÂNGULOS SUPERIORES A 7°,  
O PERFIL V 27 DEVE SER QUINADO EM BRUTO



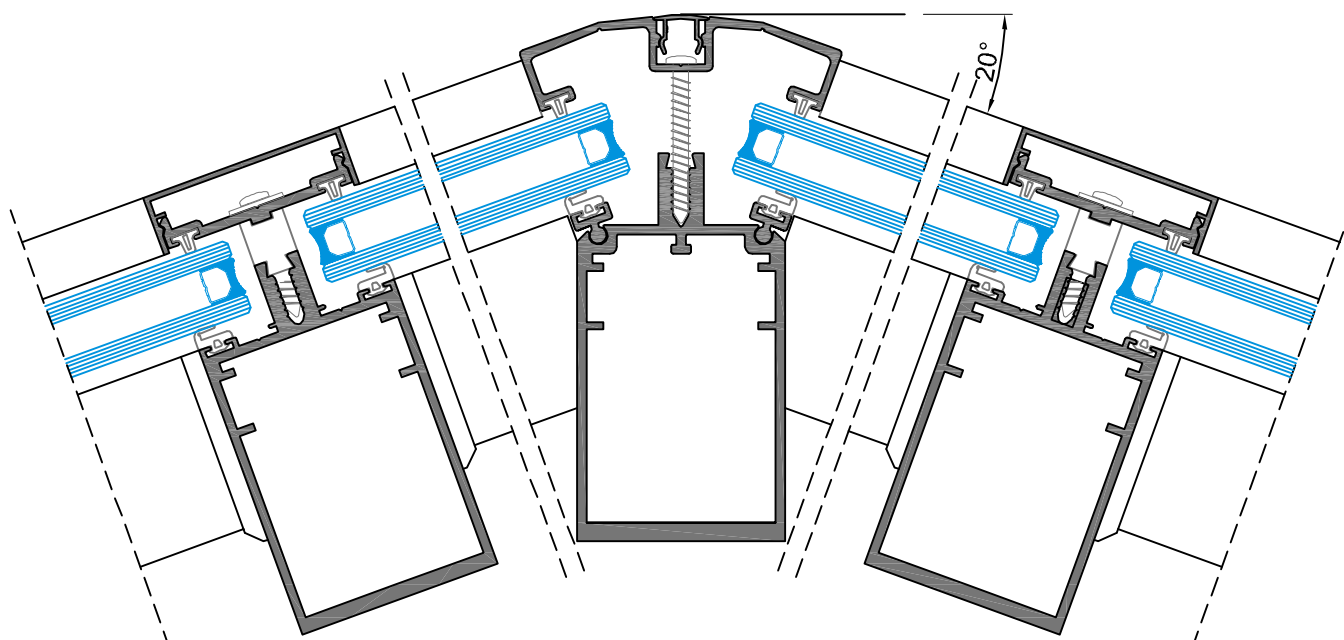
TL 26

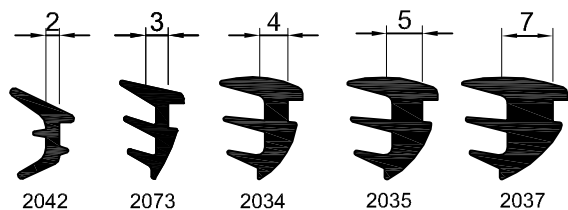


V 30



FC 07





Material: EPDM

208191 JUNTA DE CUNHA 2042  
208195 JUNTA DE CUNHA 2034

208196 JUNTA DE CUNHA 2035  
208904 JUNTA DE CUNHA 2037  
208199 JUNTA DE CUNHA 2073



2109

Junta para FC 30

208382

JUNTA CENTRAL 2109 Pr.



2003

(Material: EPDM)  
(Rolo: 100m)



2055

208350  
208289

JUNTA DE VEDAÇÃO EXTERIOR 2003  
JUNTA DE BATENTE 2055



Comprimento: 3 metros

208308

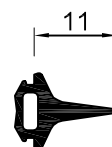
JUNTA LIMITADORA 2100



Para os perfis FC 04 e V 27

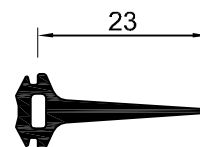
208288

JUNTA EXTERIOR 214 1



2011

(Material: EPDM)



2024

(Material: EPDM)

208282  
208284

JUNTA EXTERIOR 2011  
JUNTA EXTERIOR 2024



(Material: EPDM)  
(Caixa: 125m)

Para o sistema FC Horizonte

208476

JUNTA EXTERIOR 2007



Material: EPDM

208262

JUNTA DE ESTANQUIDADE 2028



2008

(Material: EPDM)  
(Rolo: 250m)



2102

Junta para o perfil FC 28  
(Material: PVC com 2 durezas)  
(Rolo: 100m)

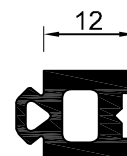


2057

(Material: EPDM)

208114  
208264  
208281

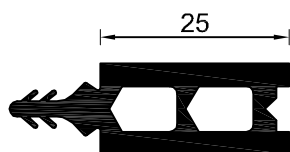
JUNTA DE BATENTE 2008  
JUNTA DE BATENTE 2102  
JUNTA DE ESTANQUIDADE 2057



Material: E.P.D.M. - 90° SHORE

208393

JUNTA RT 001 Pr.



Material: E.P.D.M. - 90° SHORE

208394

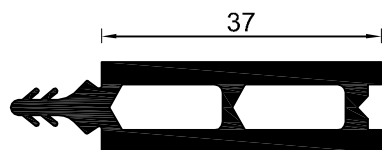
JUNTA RT 002 Pr.



Material: E.P.D.M.

208908

JUNTA DE ESTANQUIDADE 20 58



Material: E.P.D.M. - 90° SHORE

208395

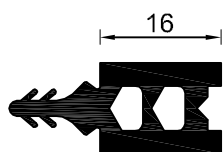
JUNTA RT 003



Material: E.P.D.M.

208293

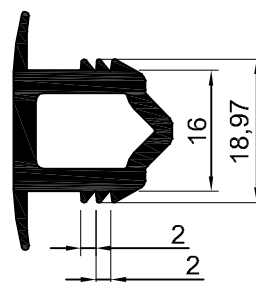
JUNTA DE ESTANQUIDADE 20 56



Material: E.P.D.M. - 90° SHORE

208396

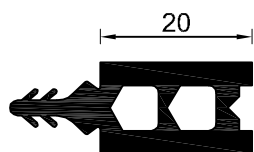
JUNTA RT 004



Material: E.P.D.M.

208135

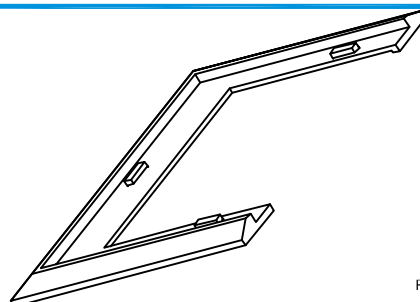
JUNTA 2156



Material: E.P.D.M. - 90° SHORE

208397

JUNTA RT 005



Para o perfil FC-02

210248

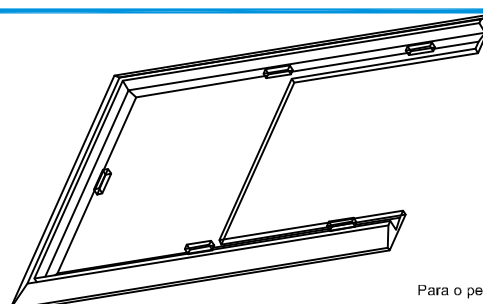
TOPO P/ TRAVESSAS TP2801



Material: E.P.D.M.

208285

JUNTA DE ESTANQUIDADE 2062

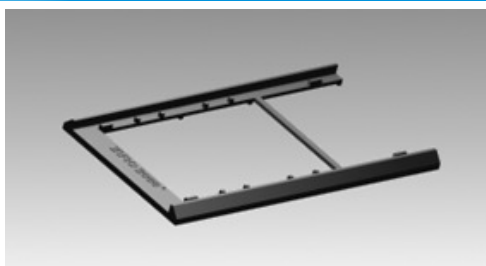


Para o perfil FC-01

210246

TOPO P/ TRAVESSAS TP24

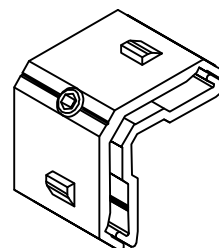




Para os perfis FC-01; FC-02; FC-24

210219

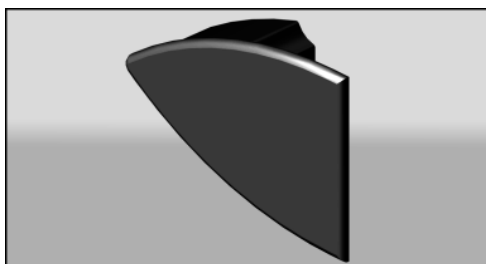
TOPO FC UNIVERSAL PRETO



Para os perfis FC-14; FC-15; FC-23; FC-31; FC-35; FC-38; FC-45

204012

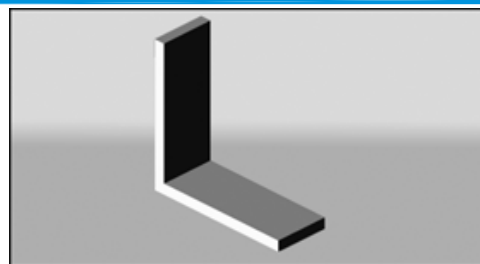
ESQUADRO 26-3214-135



Para o perfil FC-25

210232

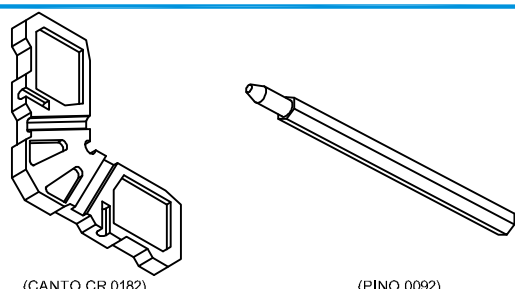
TOPO LATERAL FC-25 PRETO



Aplicar no perfil FC 35

000000

CANTO CR 2005

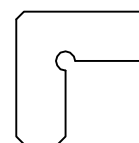


(CANTO CR 0182)

(PINO 0092)

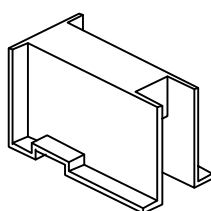
213247  
213249

CANTO CR 0182  
PINO 0092



213246

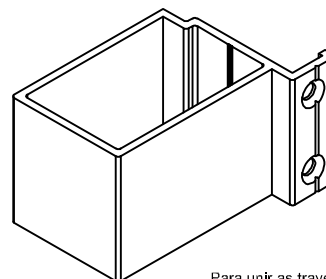
CANTO CR S/SB



Aplicar nos topos dos cabeçotes das travessas

208481

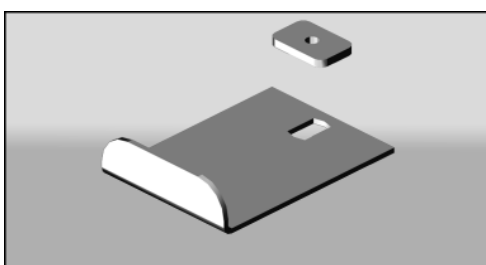
VEDANTE TRAVESSAS VT2801



Para unir as travessas aos montantes

232124

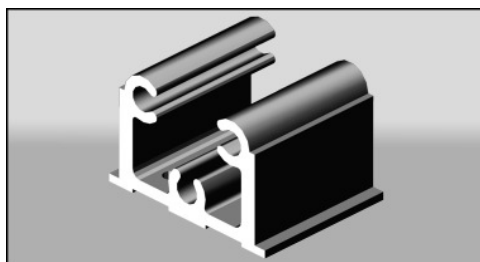
(UNIÃO FRONTAL P/ TRAVESSAS UT 27)



Para o perfil FC-14; FC-23

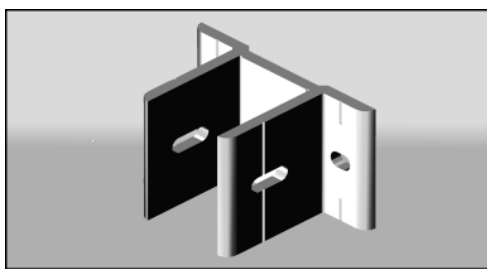
230280

SUPORTE INOX FO



232122

UNIÃO P/ TRAVESSAS UT2807



Fixador dos montantes às lajes

221128

FIXADOR DE MONTANTE 2810



Peso máx: 10Kg  
Altura máx: 300mm  
Ângulo abertura: 50°

212030

CONJ. BRAÇO PROJECTANTE S 150



Para o perfil FC 01, aplicar para fixação entre lajes

221129

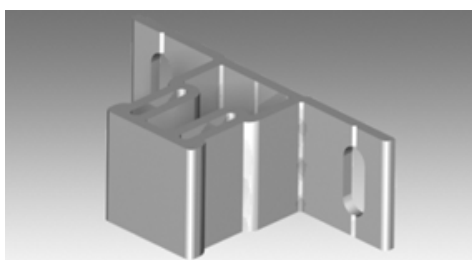
FIXADOR MONTANTE 2812 Bruto



Peso máx: 21Kg  
Altura máx: 750mm  
Largura máx: 500mm  
Ângulo abertura: 10°/60°

212032

CONJ. BRAÇO PROJECTANTE S 400



Para o perfil FC 02, aplicar para fixação entre lajes

221304

FIXADOR MONTANTE 2811 Bruto



Peso máx: 75Kg  
Altura máx: 1500mm  
Largura máx: 559mm  
Ângulo abertura: 45°

212034

CONJ. BRAÇO PROJECTANTE S 550



Para o perfil FC 24 e FC 34, aplicar para fixação entre lajes

221130

FIXADOR MONTANTE 2813 Bruto

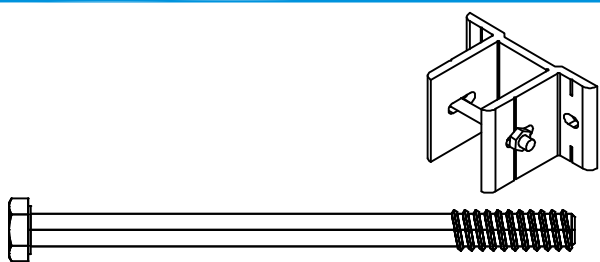


Para vãos até 100Kg:  
Altura máxima: 2000mm  
Altura mínima: 750mm  
Largura máxima: 2200mm  
Ângulo de abertura: 20°

Para vãos até 120Kg:  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm  
Ângulo de abertura: 15°

212021

CONJ. BRAÇO PROJECTANTE ST 26



Aplicar com o fixador 2810

290098  
290014

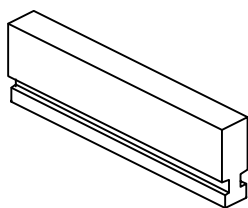
PARAFUSO PAR 100 ZINCADO  
PARAFUSO PAR 100 INOX



Para vãos até 150Kg:  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm  
Ângulo de abertura: 20°

202509

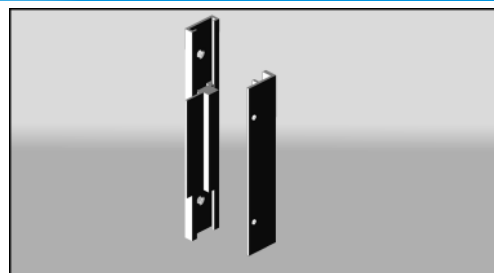
CONJ. BRAÇO PROJECTANTE 150Kg



Para o perfil AT-20; AT-36

228103

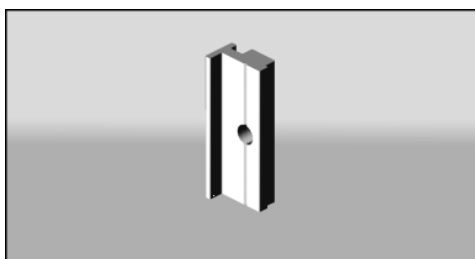
LIMITADOR DISTÂNCIA LD001



Aplicar nos sistemas FC - semi oculto e oculto

212080

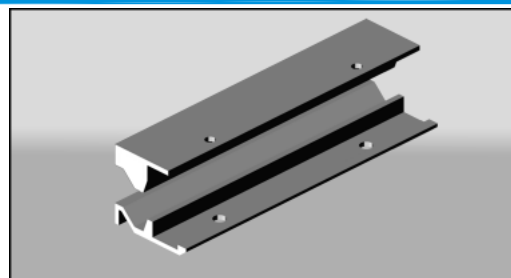
CONJ. FIXAÇÃO LAT. 2824



Aplicar nos sistemas FC - semi oculto e oculto

215142

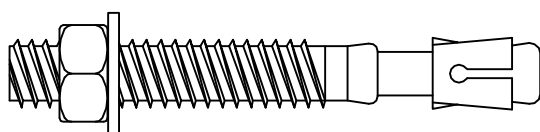
PEÇA FIXAÇÃO FRONTAL 2825



Aplicar nos sistemas FC - semi oculto e oculto

212078

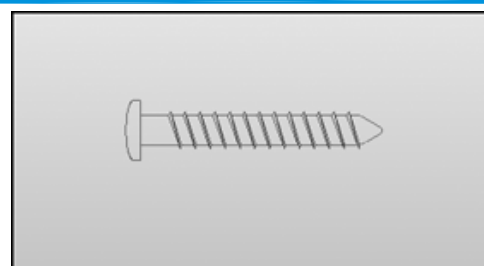
CONJ. FIXAÇÃO INF. 2823



Aplicar com o fixador 2810

218124  
218124

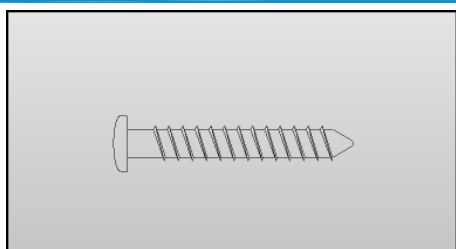
BUCHA SEGM. M8x75 PAR 101 ZINC.  
BUCHA SEGM. M8x75 PAR 101 INOX



Para união UT 2807

290260

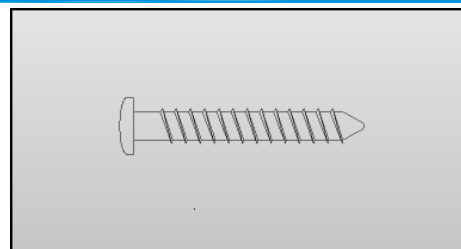
PARAF. PAR 001 PK INOX PH 1/2x8 CQ



Para fixação do perfil FC 04 sem junta RT 001P aplicar com anilha AN 001

290226

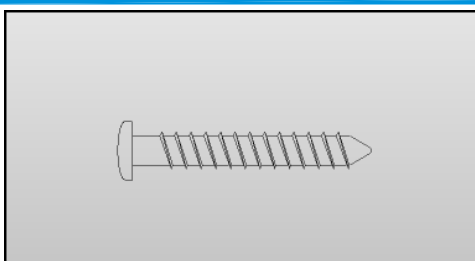
PARAFUSO PAR 004 PK INOX PH 7/8x12 CQ



1 3/4x12 CQ = para união UT 2807 com FC 02, FC 01 e FC 24  
2"x12 CQ = para união UT 2807 com FC 34

290264

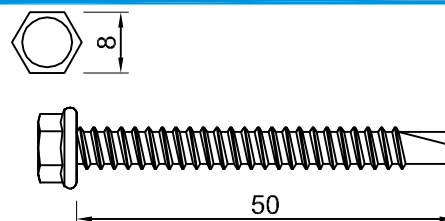
PARAFUSO PAR 005 PK 1 3/4x12 CQ  
PARAFUSO PK INOX PH 2"x12 CQ



Para fixação do perfil FC 04 + junta RT 001P

290165  
290262  
217104

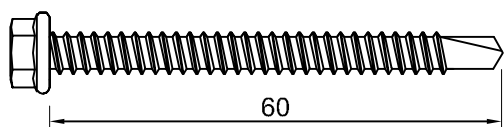
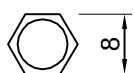
PARAFUSO PK INOX PH 1 1/4x10 CQ  
PAR. PAR 003 PK INOX PH 1 1/2x10 CQ  
ANILHA COLADA 6.3 AN 001 INOX



Para aplicar com a junta RT004

290459

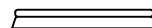
REF.º PARAFUSO DIN 7504 5.5x50 Dmet



Para aplicar com a junta RT002

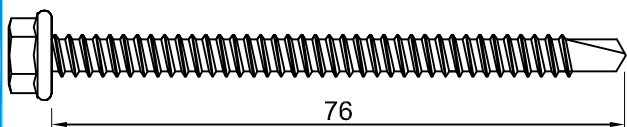
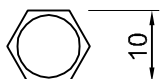
290460

REF.º PARAFUSO DIN 7504 5.5x60 Dmet



217104

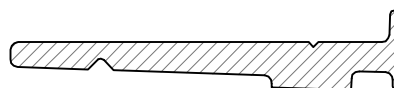
ANILHA AN 001



Para aplicar com a junta RT003

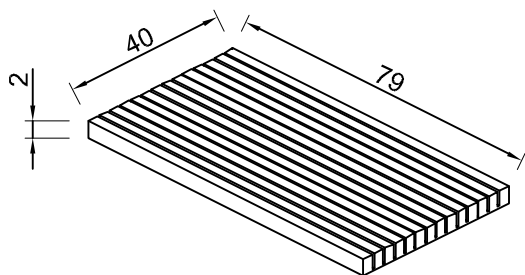
290461

REF.º PARAFUSO DIN 7504 6.3x76 Dmet



230013

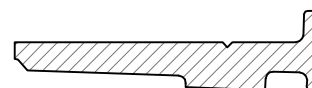
SUPOORTE FC AUTO-PORTANTE 003



Aplicar nos calços auto-portantes

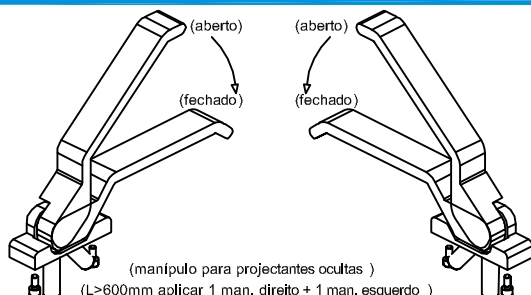
218113

CALÇO PARA VIDRO 79X40X2



230012

SUPOORTE FC AUTO-PORTANTE 002



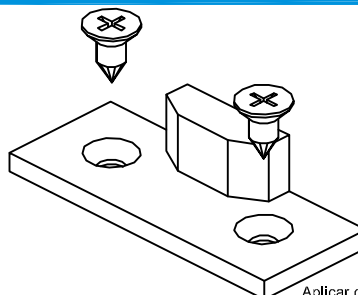
(manípulo para projectantes ocultas )  
(L>600mm aplicar 1 man. direito + 1 man. esquerdo )

416003

416004

MANÍPULO ARTICULADO i33 DIR.

MANÍPULO ARTICULADO i33 ESQ.



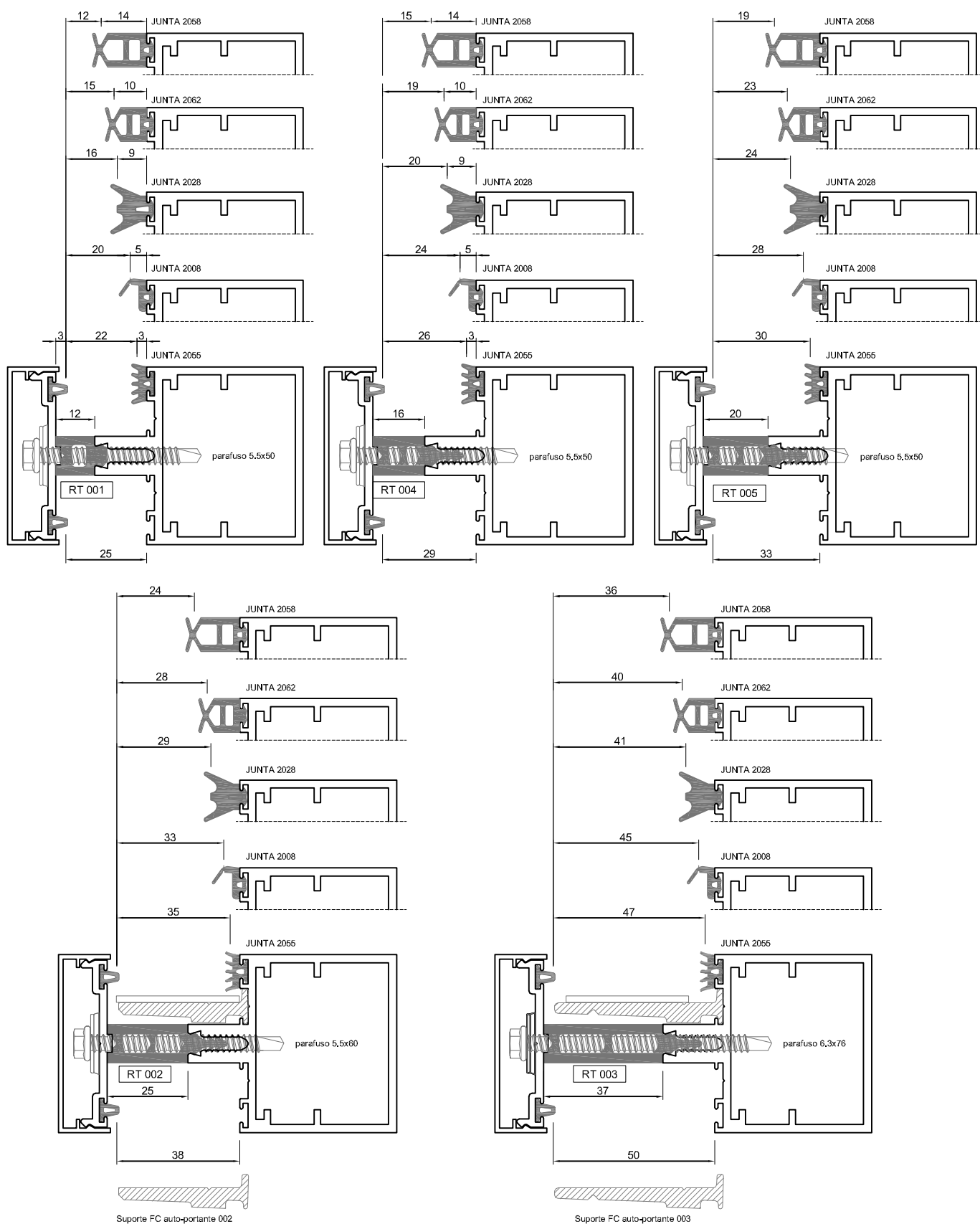
Aplicar com os manípulos articulados

202088

CONTRA FECHO 5708

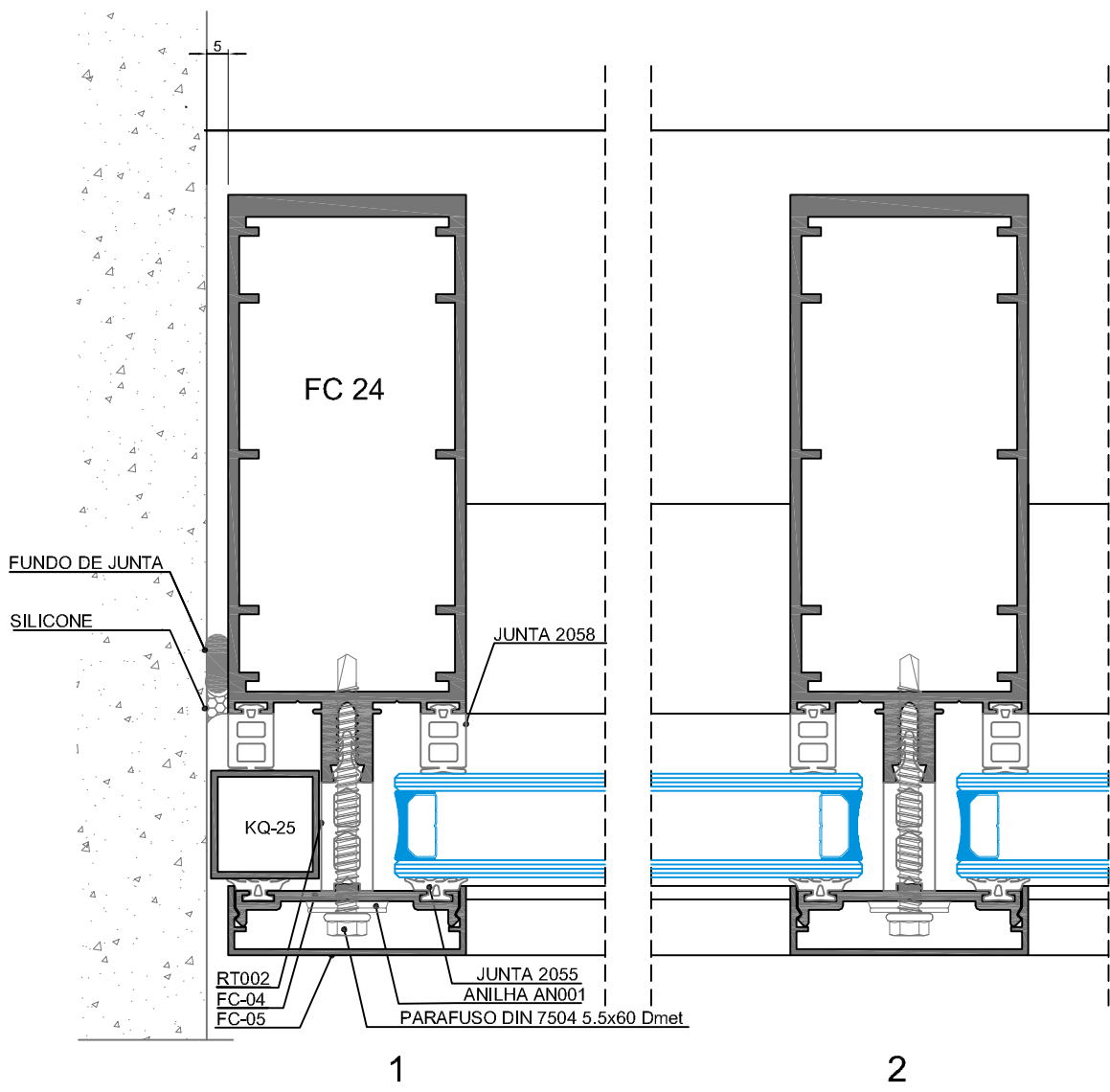
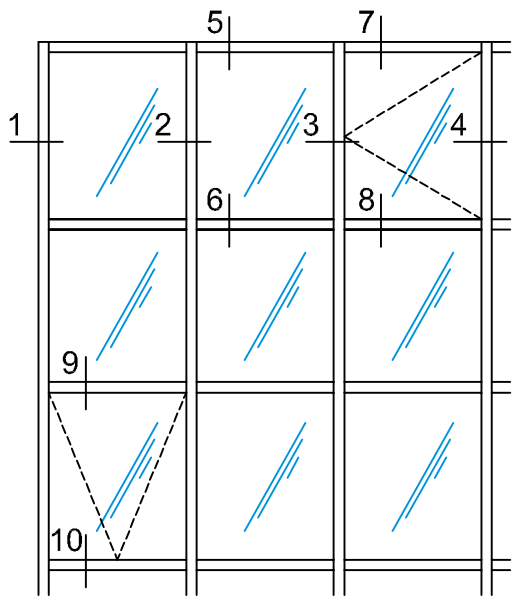


# MAPA DE ENCHIMENTOS PARA FACHADA ESTRUTURAL COM AS JUNTAS RT



Nota: Na utilização das juntas RT002 ou RT003 aplicar os suportes FC auto-portantes para suporte dos vidros juntamente com o calço para vidro 79x40x2mm

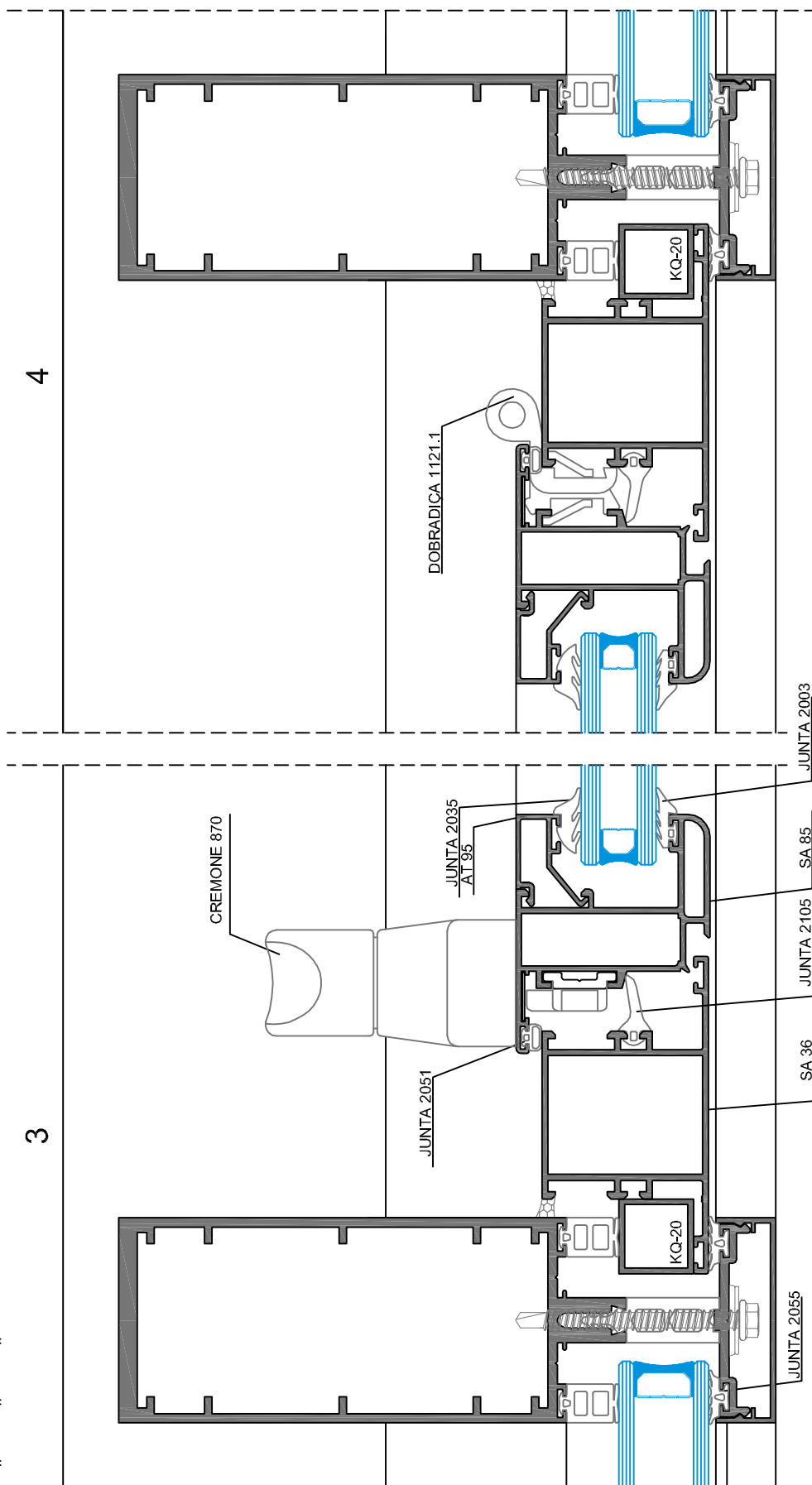
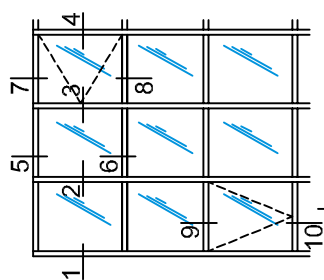
FACHADA ESTRUTURAL: PORMENORES 1 E 2



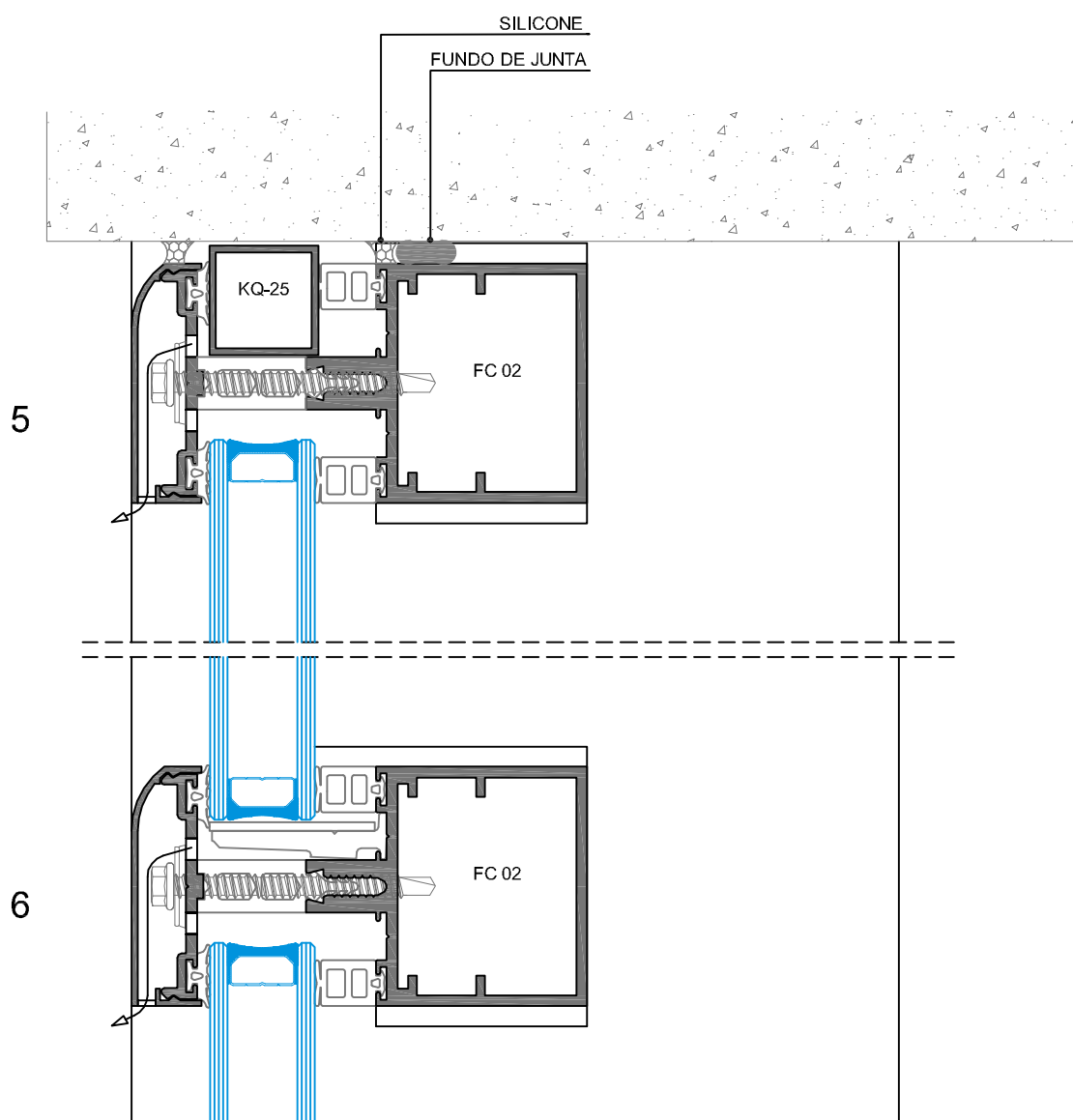
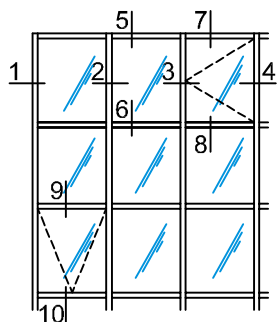
1

2

FACHADA ESTRUTURAL: PORMENORES 3 E 4

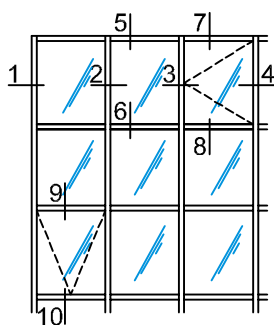


FACHADA ESTRUTURAL: PORMENORES 5 E 6

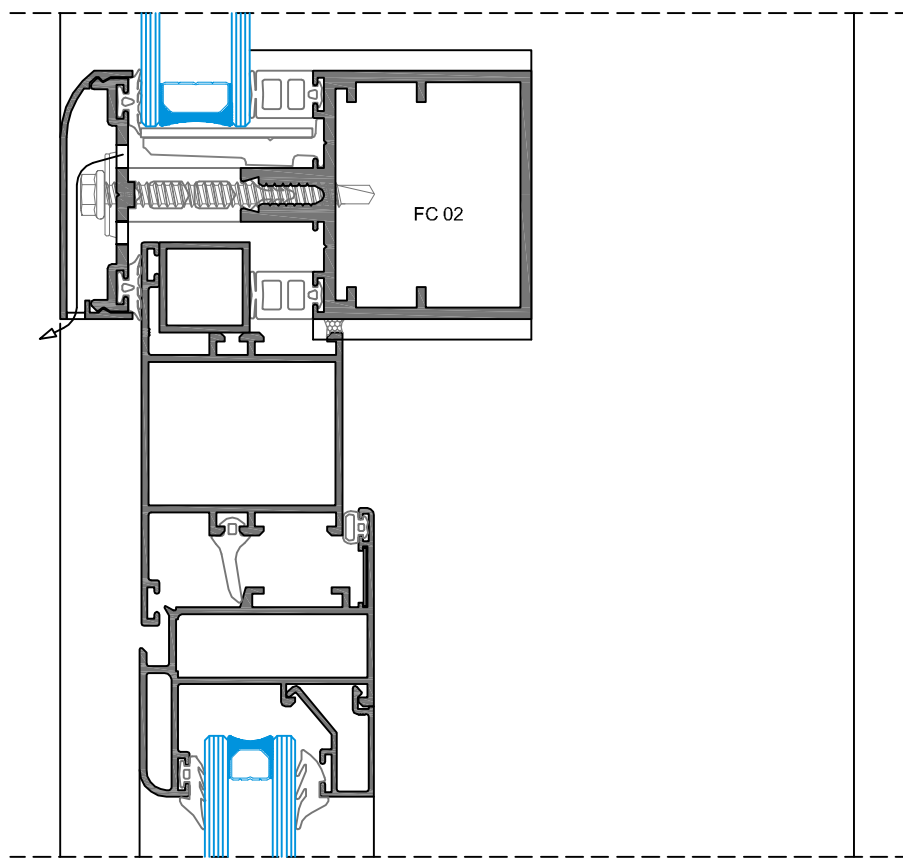




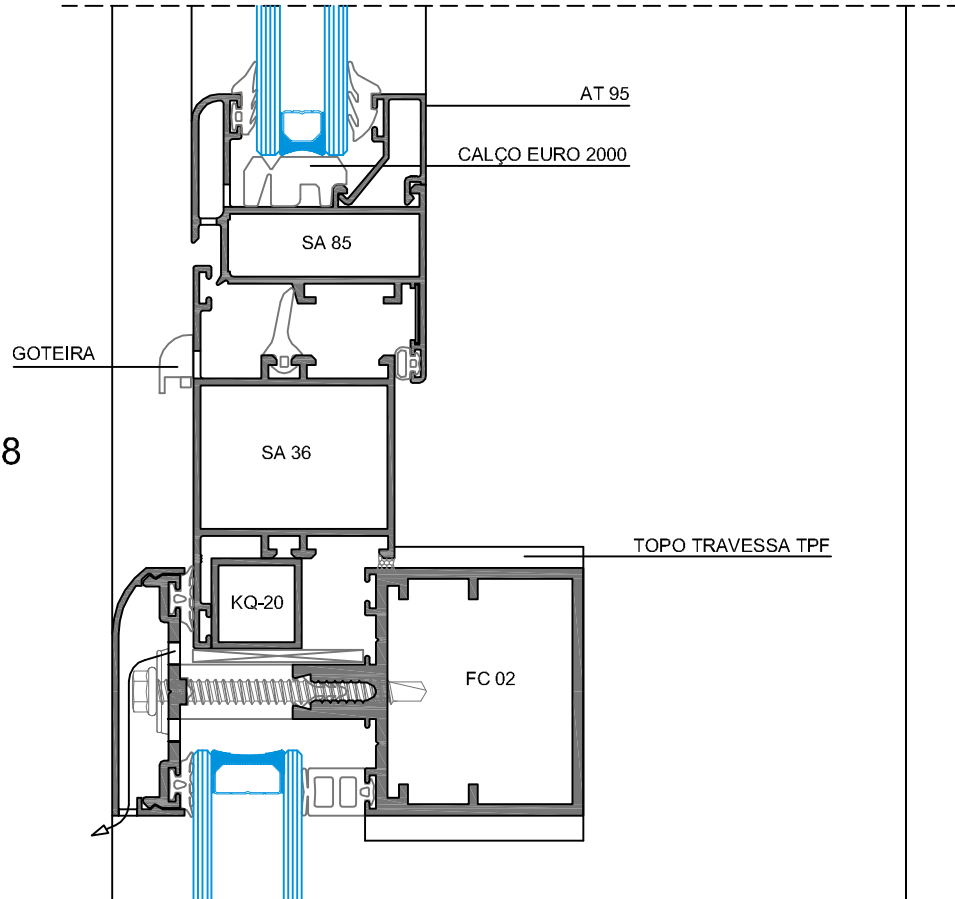
# FACHADA ESTRUTURAL: PORMENORES 7 E 8 COM VÃO OSCILO-BATENTE



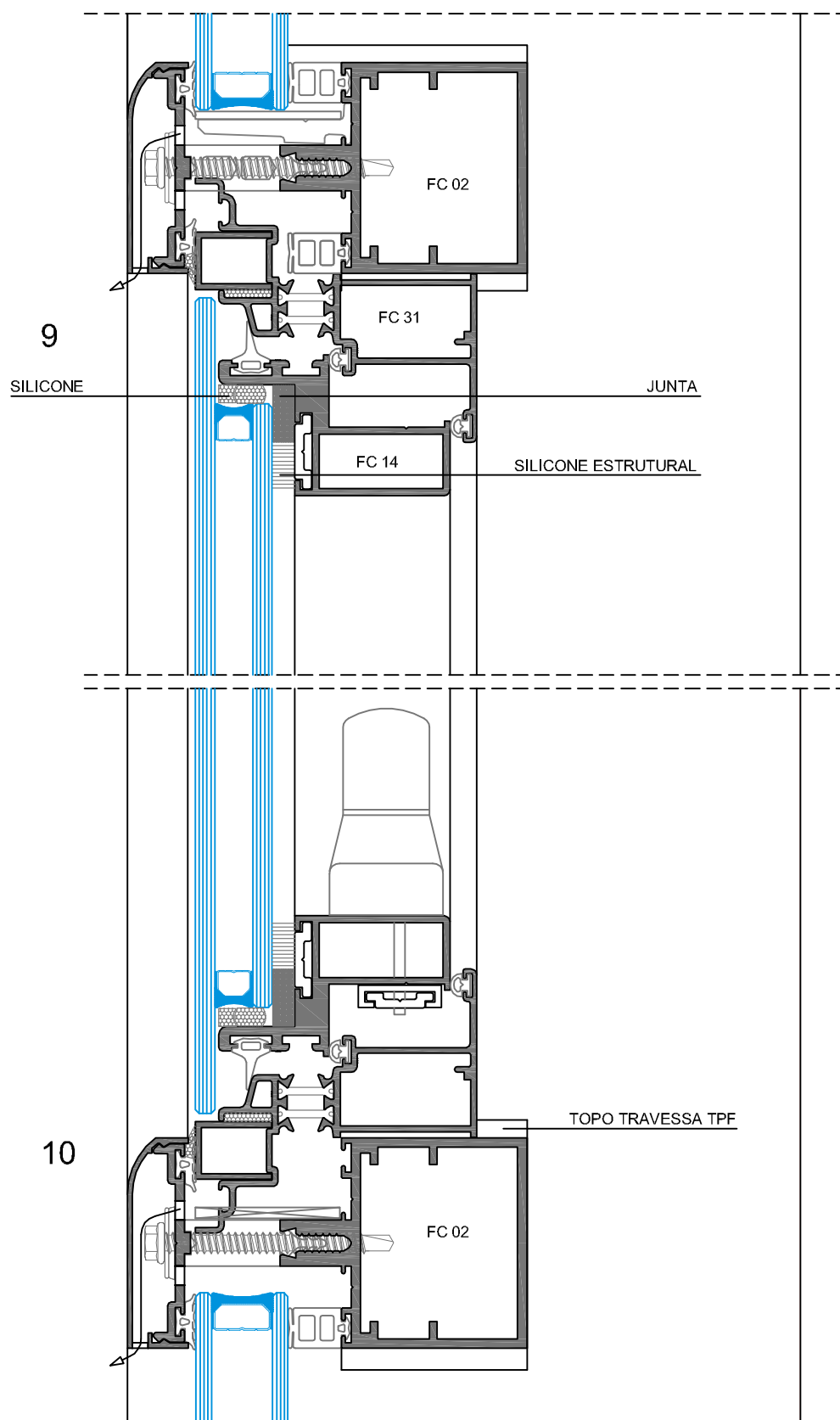
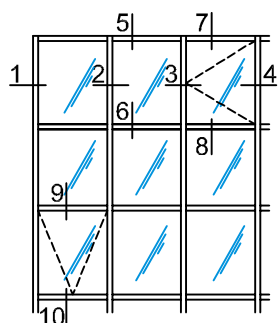
7



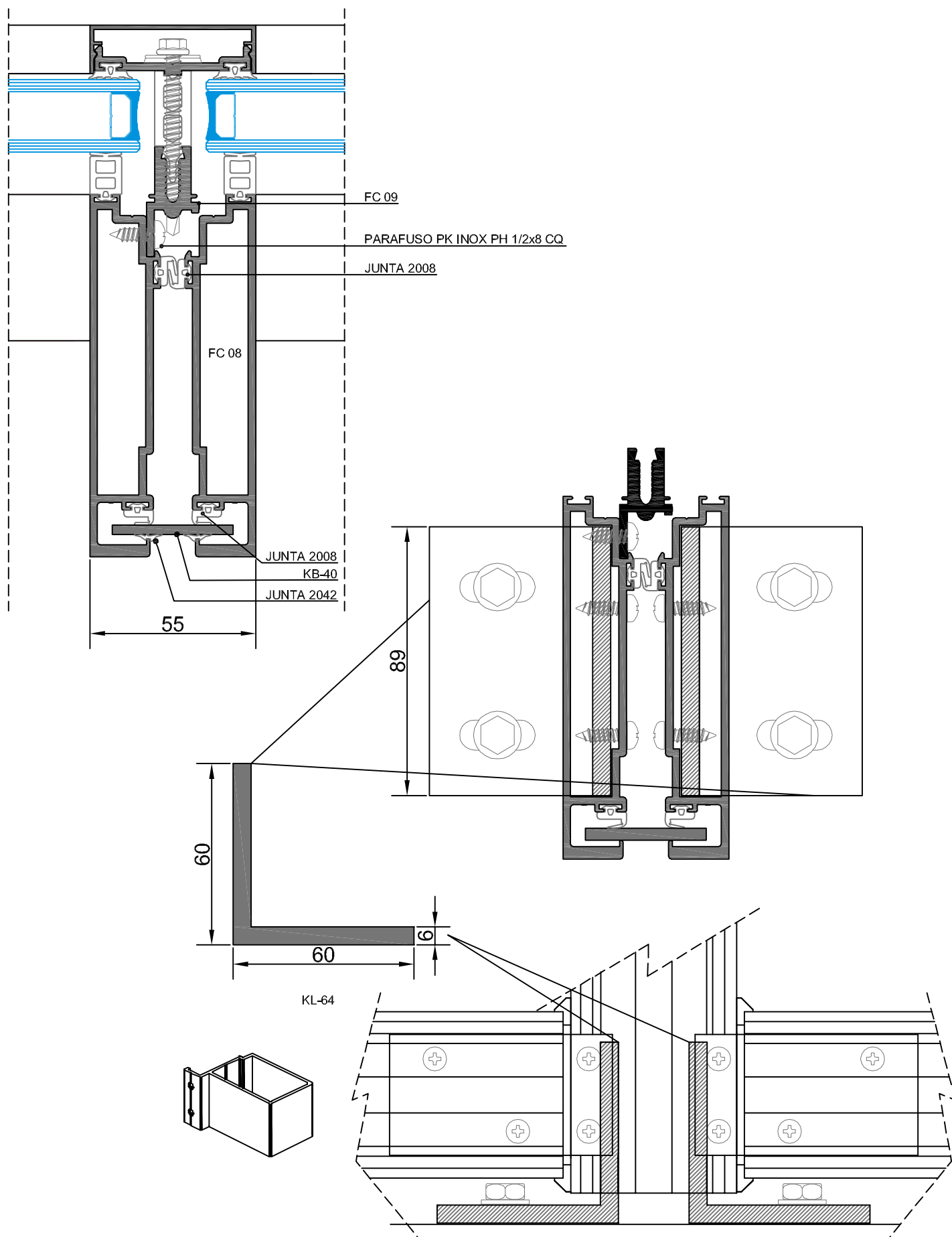
8



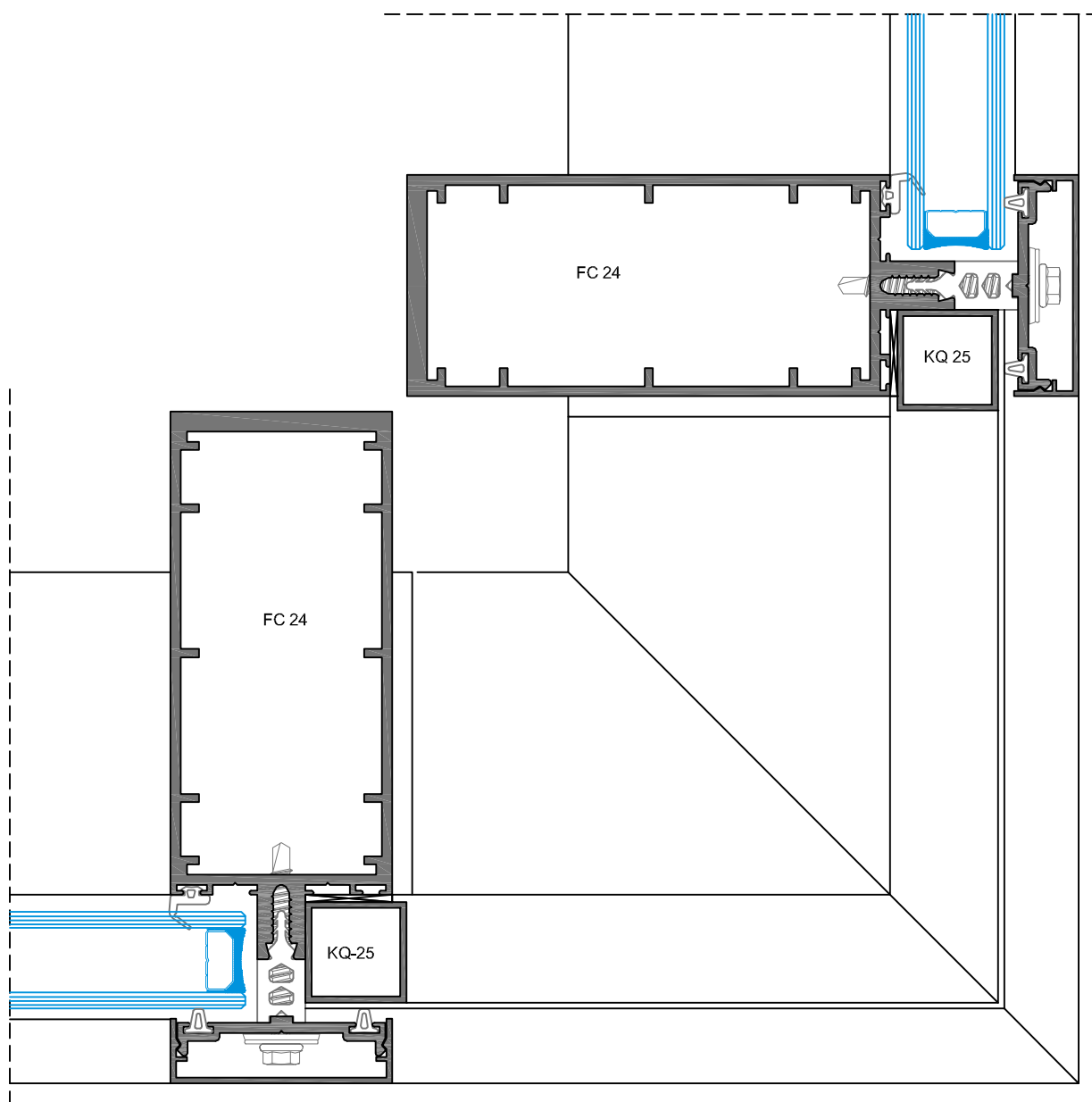
FACHADA ESTRUTURAL: PORMENORES 9 E 10  
COM VÃO PROJECTANTE



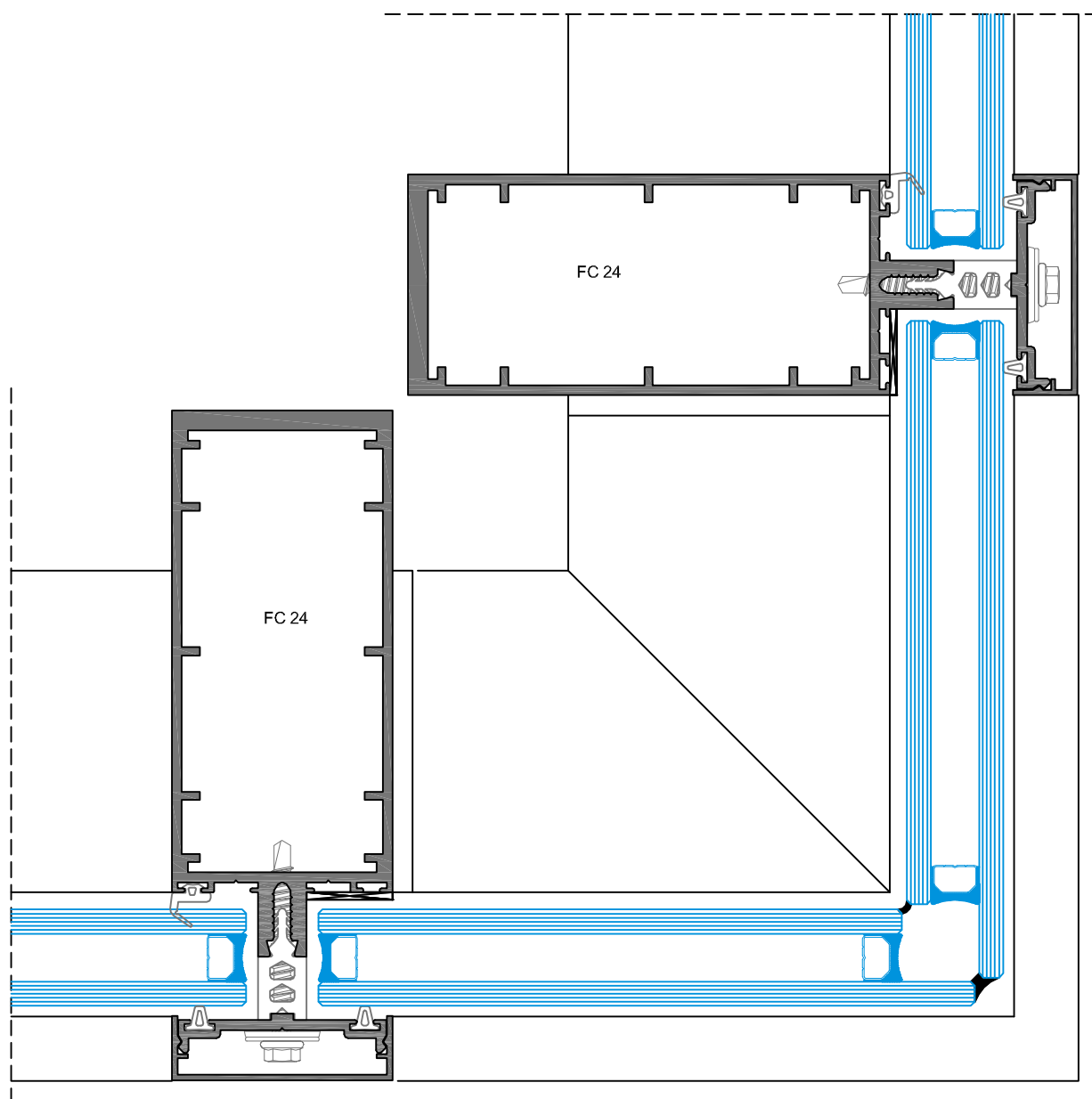
# FACHADA ESTRUTURAL: APLICAÇÃO DOS PERFIS PARA JUNTA DE DILATAÇÃO COM FIXAÇÃO ENTRE LAJE



FACHADA ESTRUTURAL: CANTO 90°

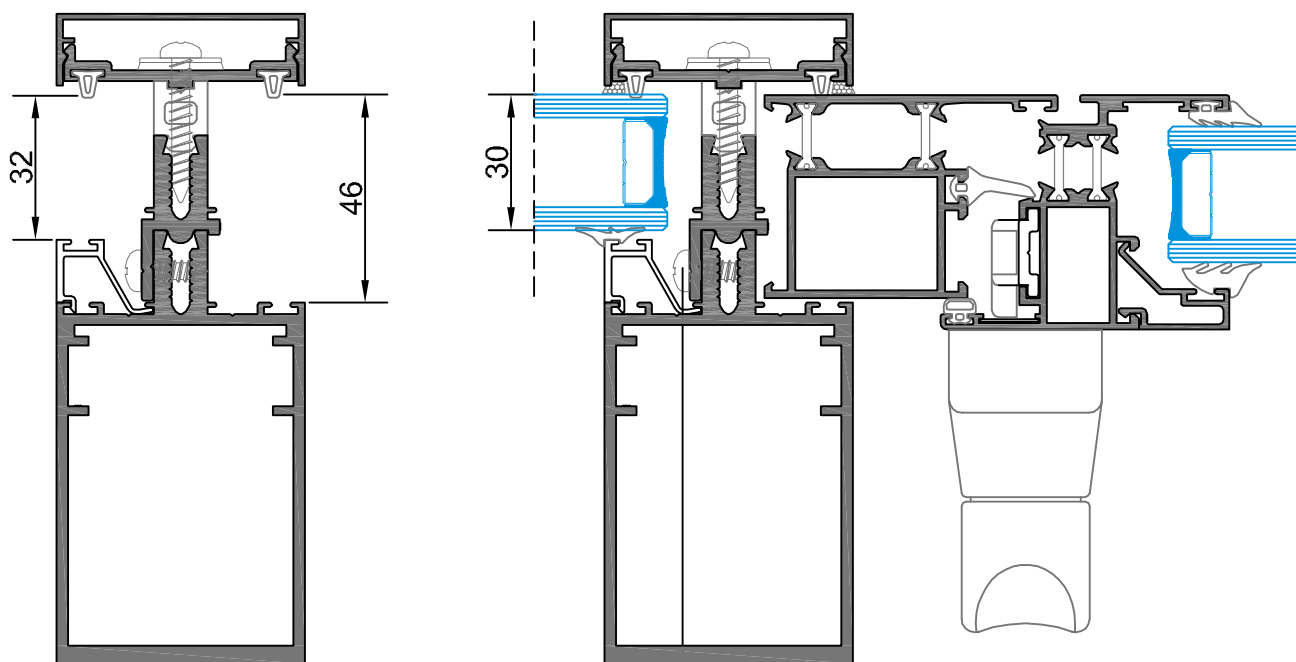


## FACHADA ESTRUTURAL: CANTO 90°



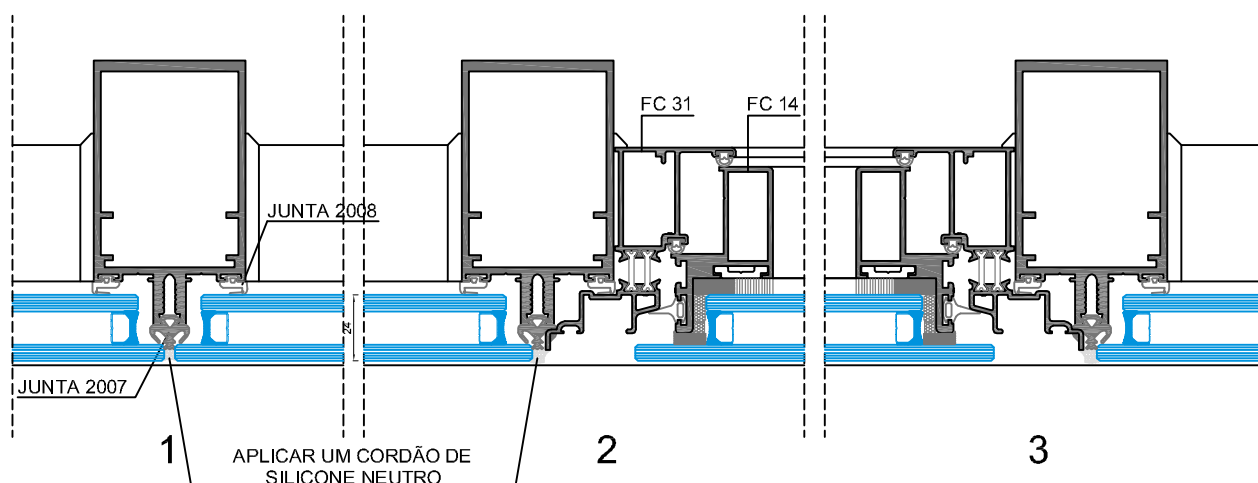
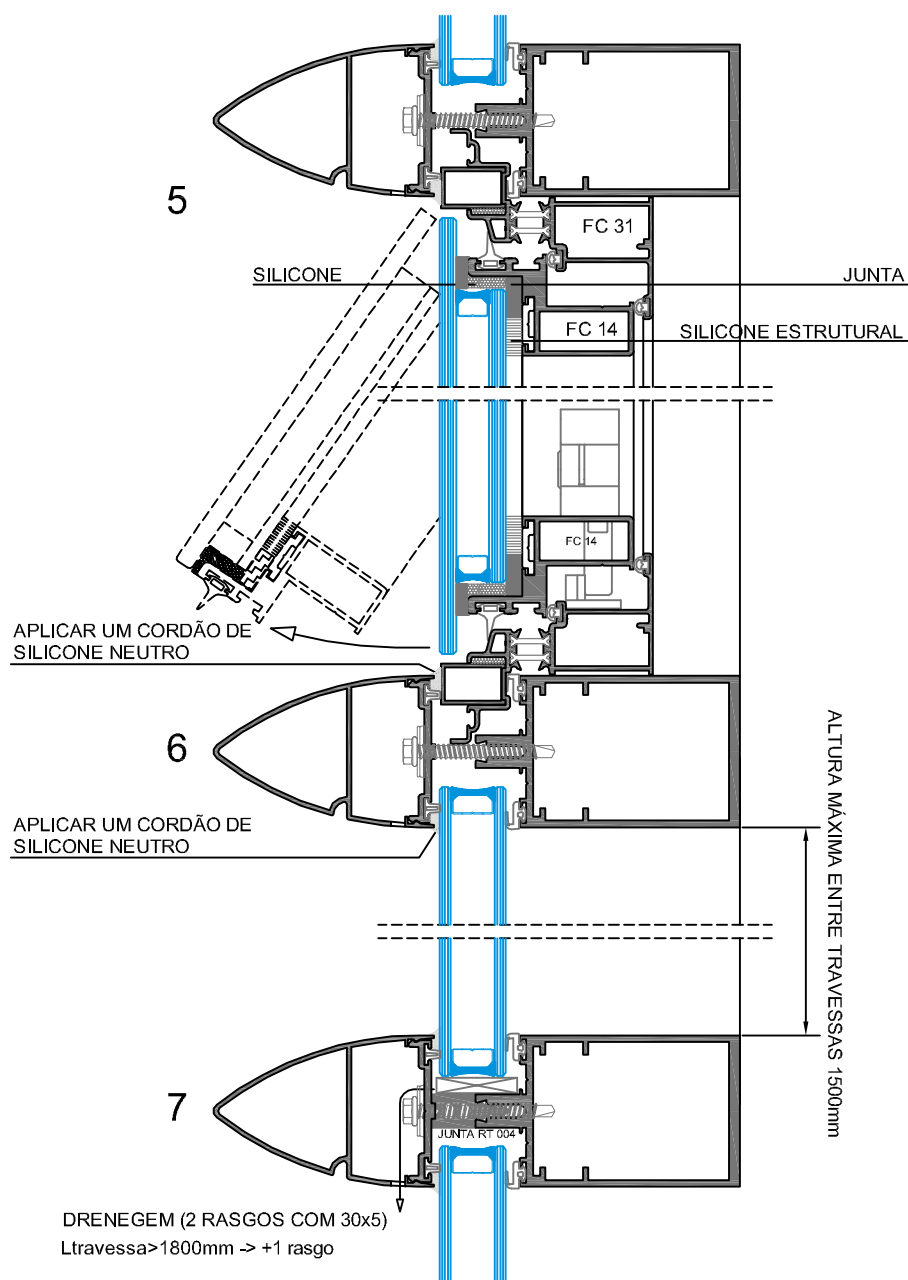
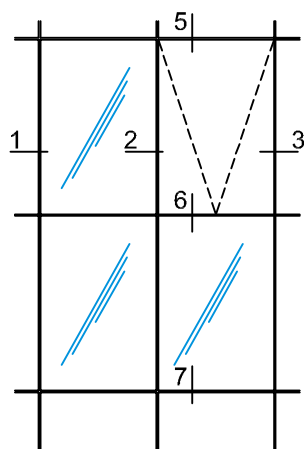
FACHADA ESTRUTURAL: APLICAÇÃO DO PERFIL FC 09 EM FACHADA ESTRUTURAL PARA  
AUMENTAR COTA DE ENCHIMENTO

NÃO PERMITE APLICAR FOLHA PROJECTANTE OCULTA



PARAFUSO 1/2x8 INOX  
FIXAR EM INTERVALOS  
DE 250mm

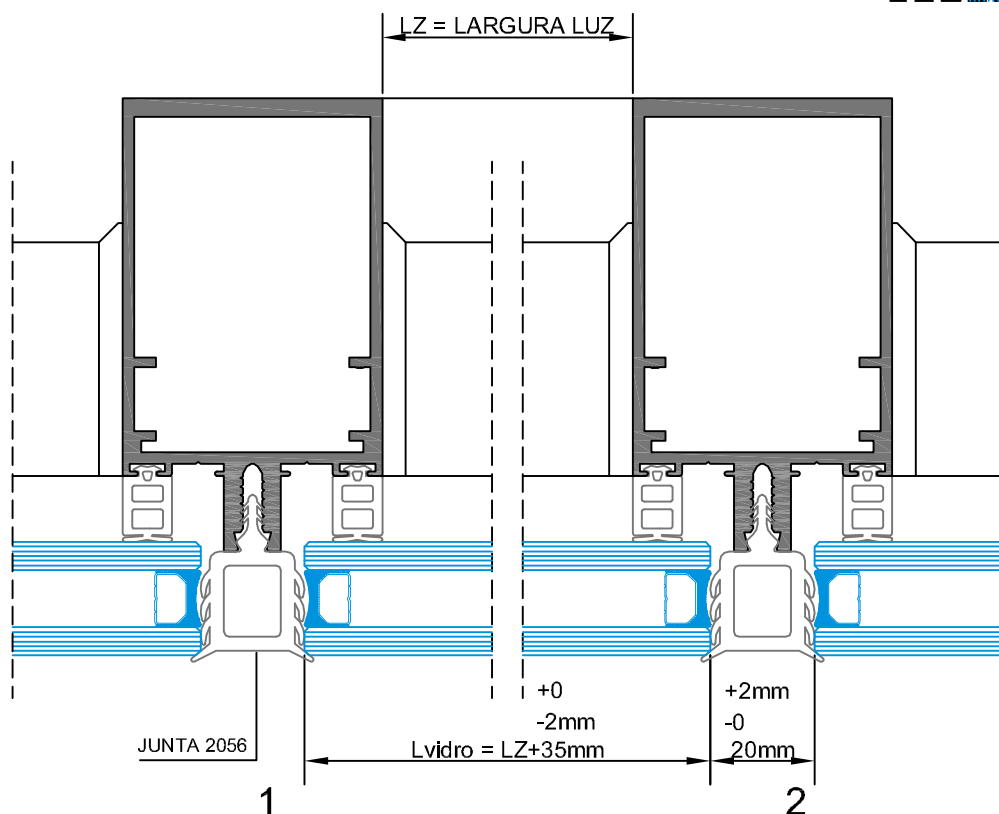
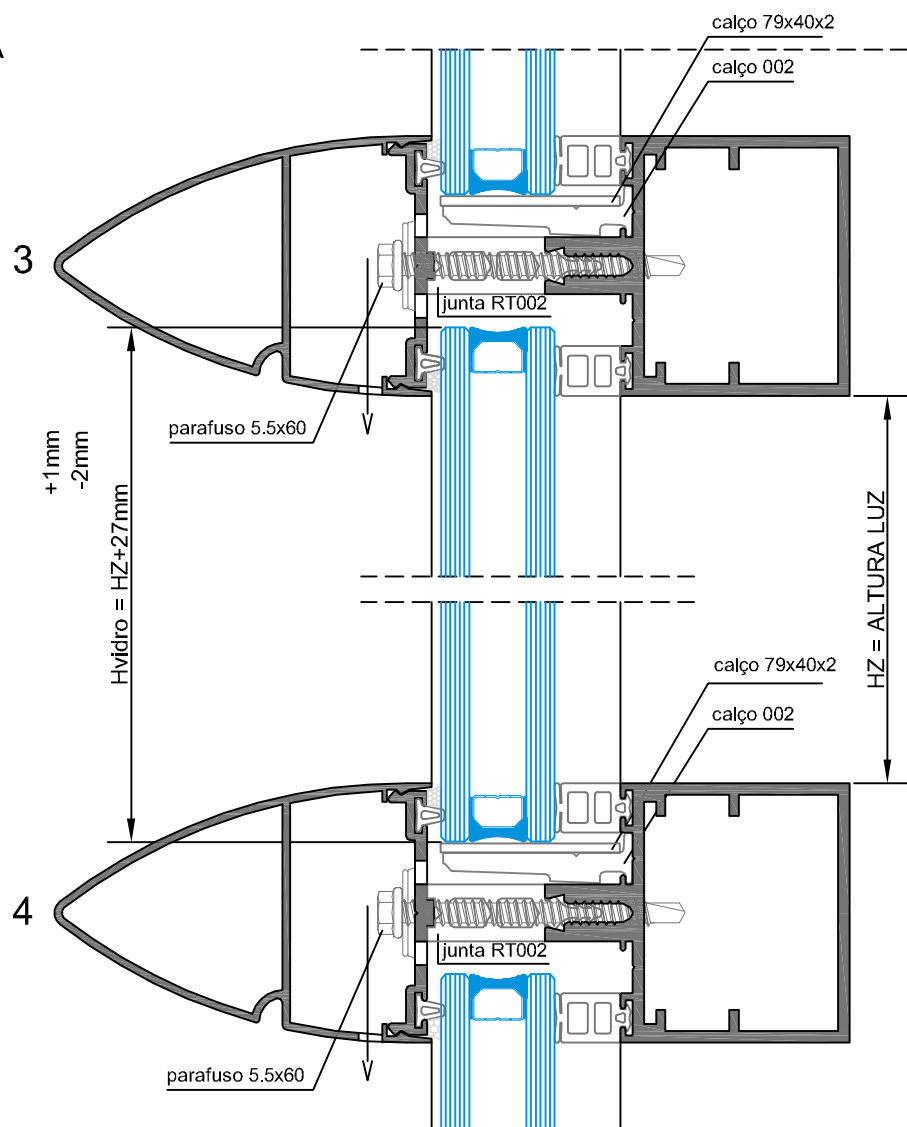
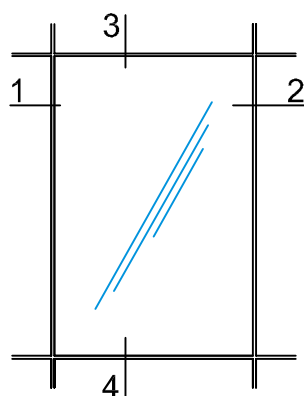
FC-HORIZONTE COM JANELA PROJECTANTE OCULTA: SISTEMA CONVENCIONAL  
COM VIDRO DUPLO DE 24mm ESPESSURA TOTAL



VIDRO (6mm+cx12+6mm) com decalagem

O Grupo Sosoares recomenda que o vidro exterior de 6mm seja temperado com tratamento térmico HST

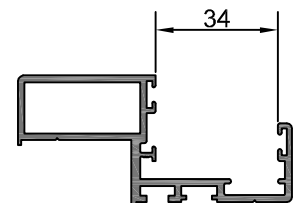
FC-HORIZONTE: NOVO SISTEMA



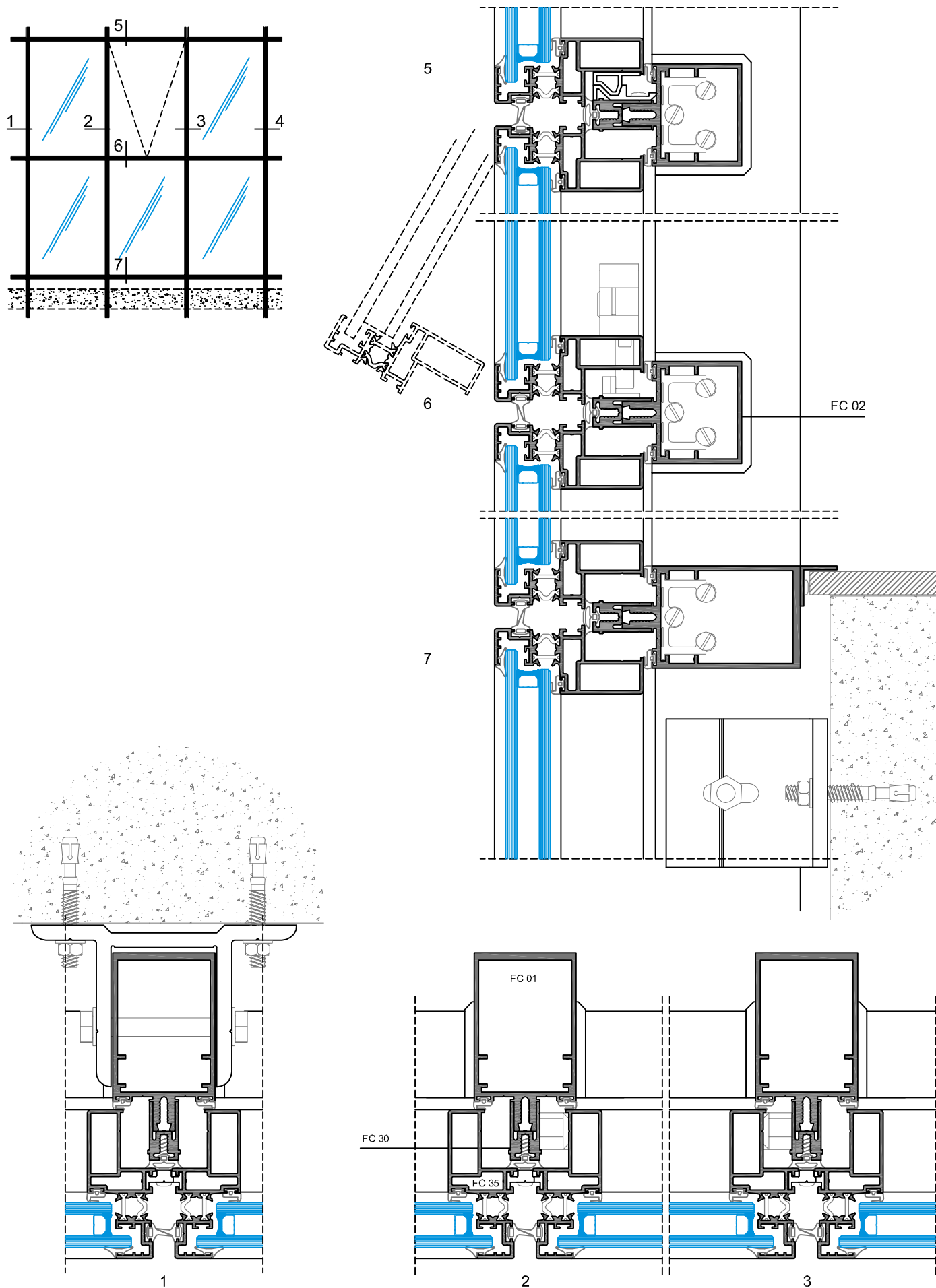
As dimensões dos vidros são essenciais para um bom desempenho da nova fachada FC-Horizonte.



- a folha projectante não deve ultrapassar as medidas indicadas no nosso catálogo para um bom desempenho

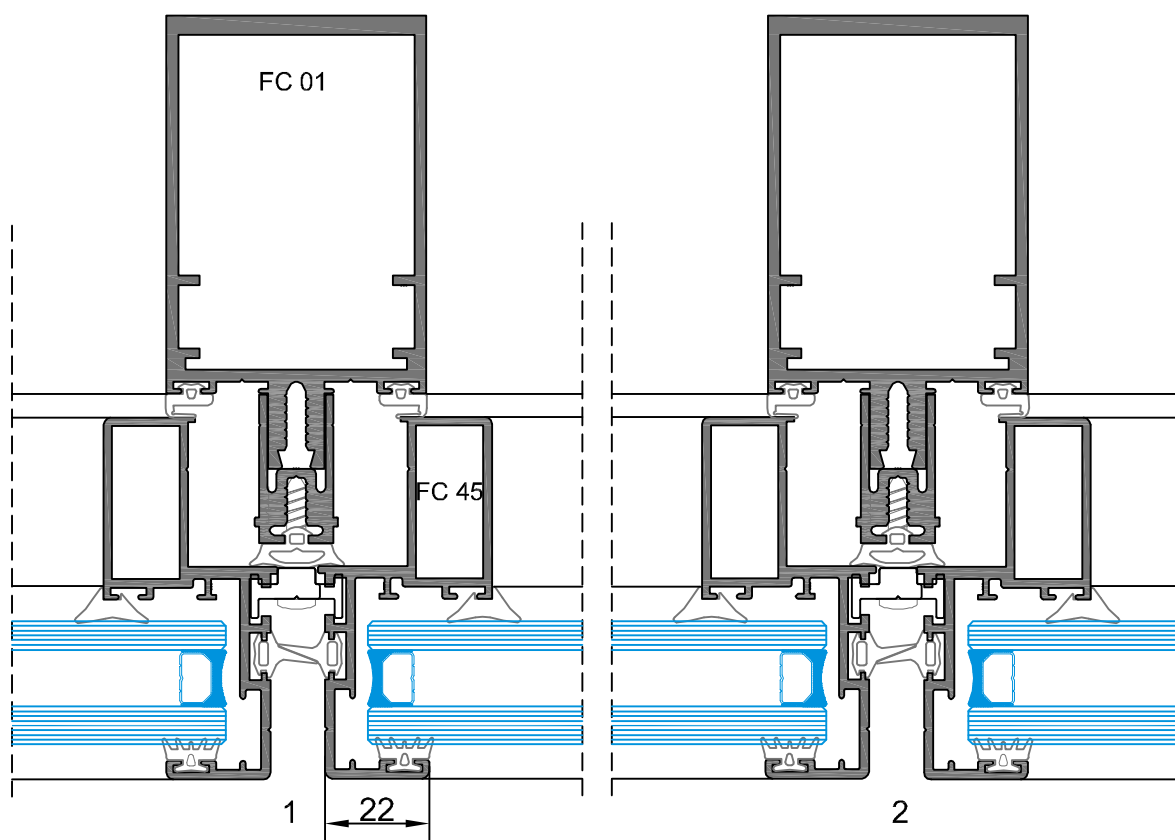
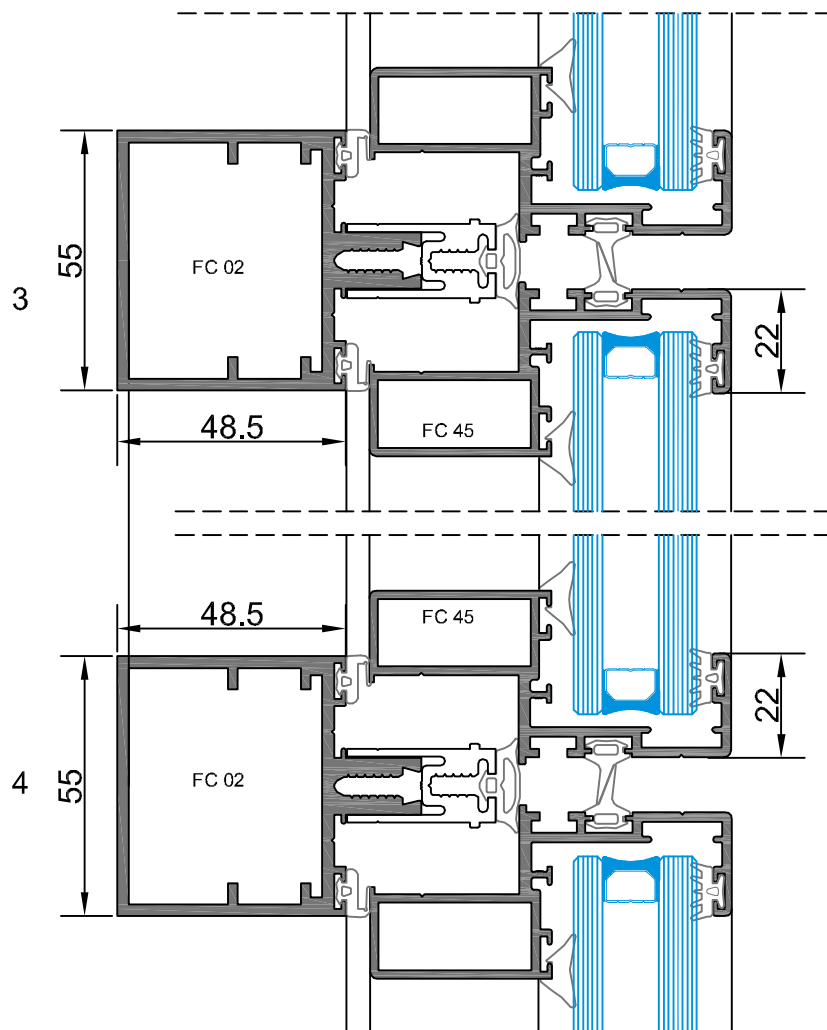
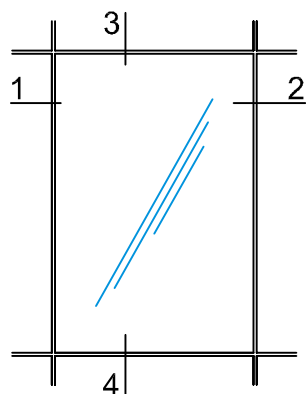


FACHADA SEMI-OCULTA COM JANELA PROJECTANTE COM O PERFIL FC 35

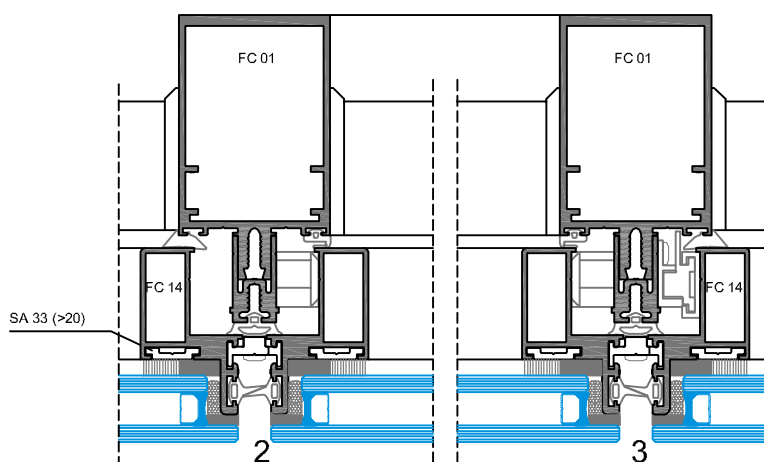
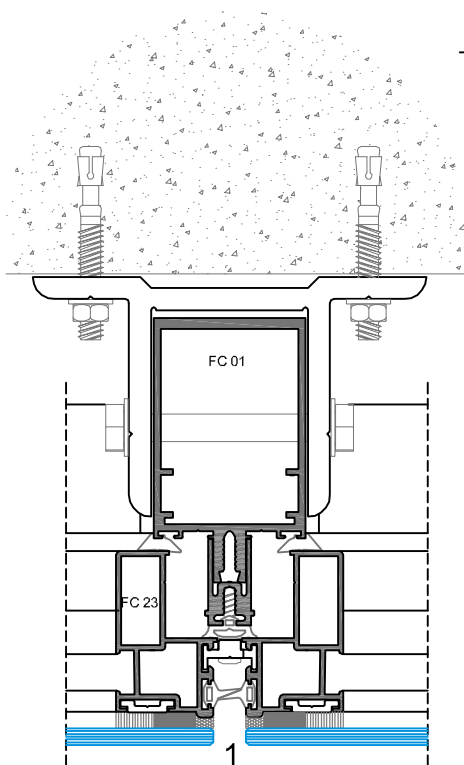
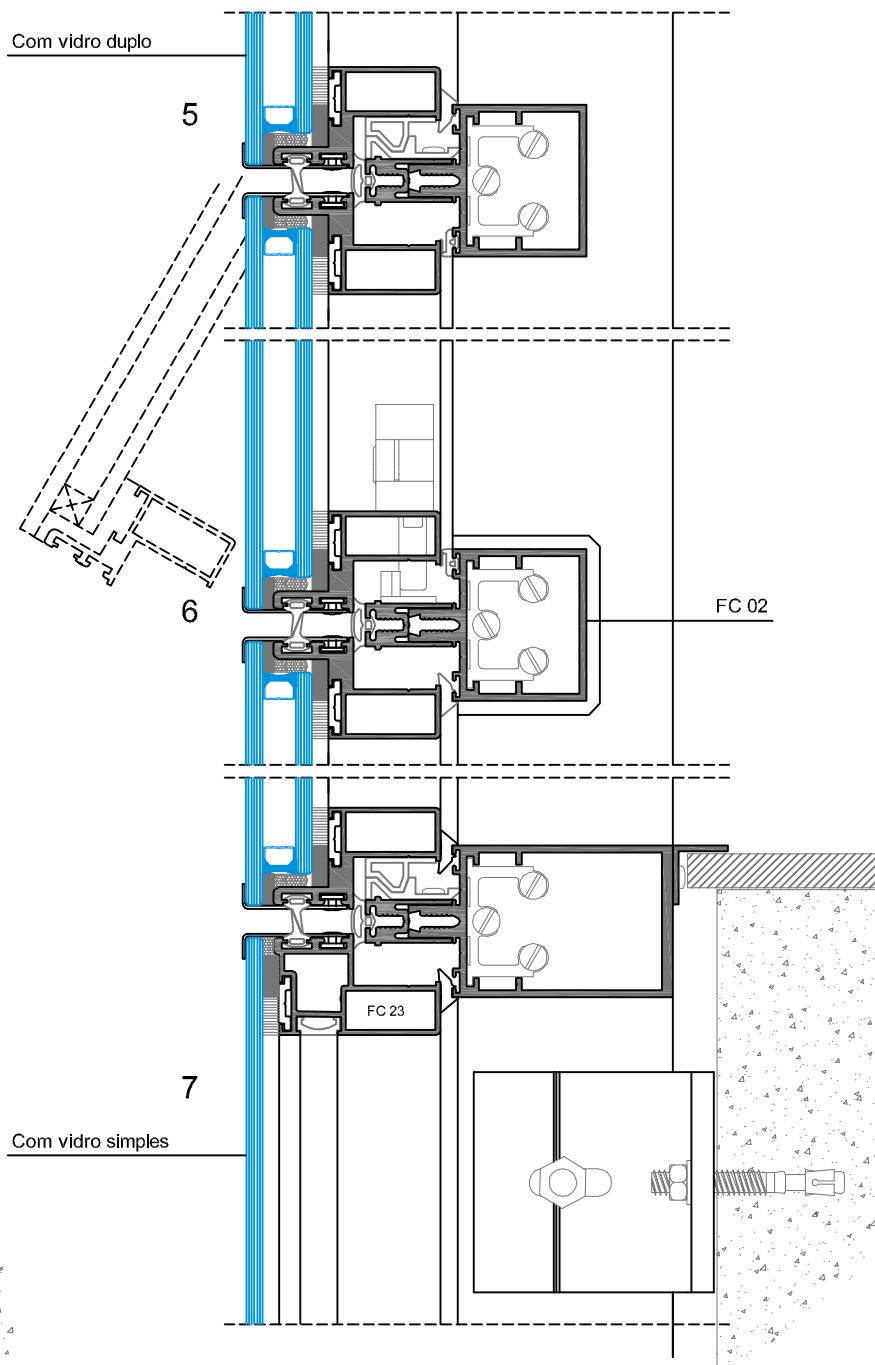
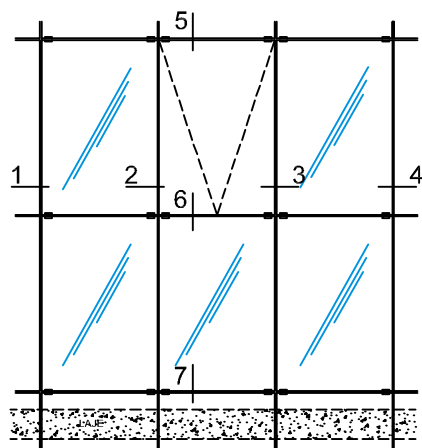


## PORMENOR DE FACHADA SEMI-OCULTA - MONTANTE

## PORMENOR DE FACHADA SEMI-OCULTA - TRAVESSA

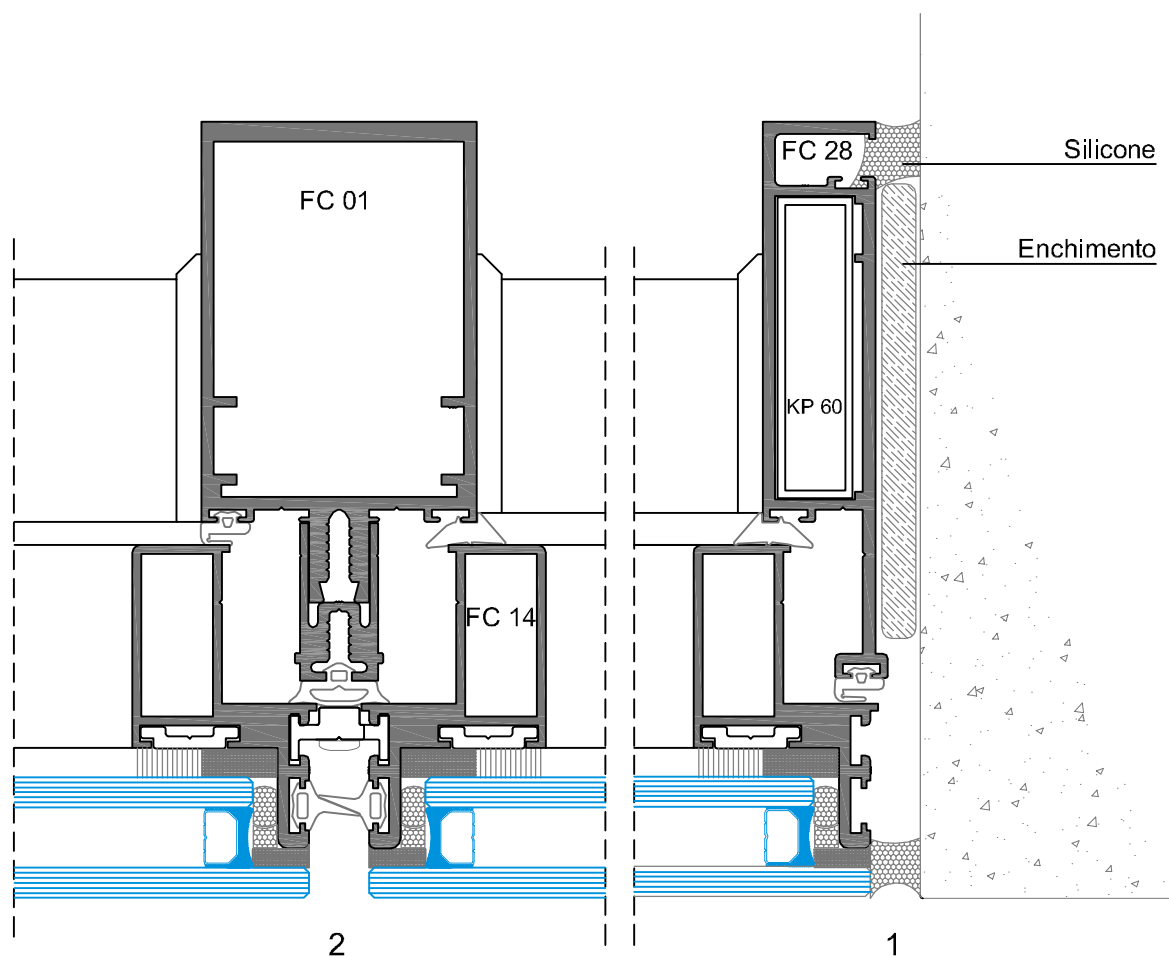
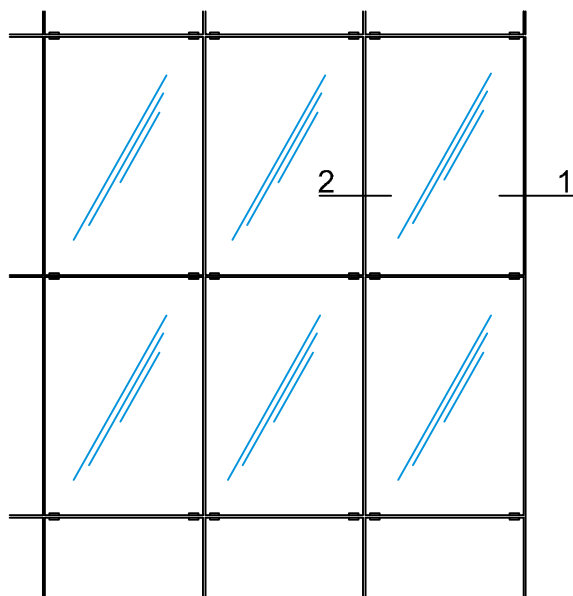


## FACHADA OCULTA COM JANELA PROJECTANTE



## ALÇADO DO SISTEMA DE FACHADA OCULTA

## PORMENOR ALTERNATIVO - REMATE À PAREDE COM FC 28

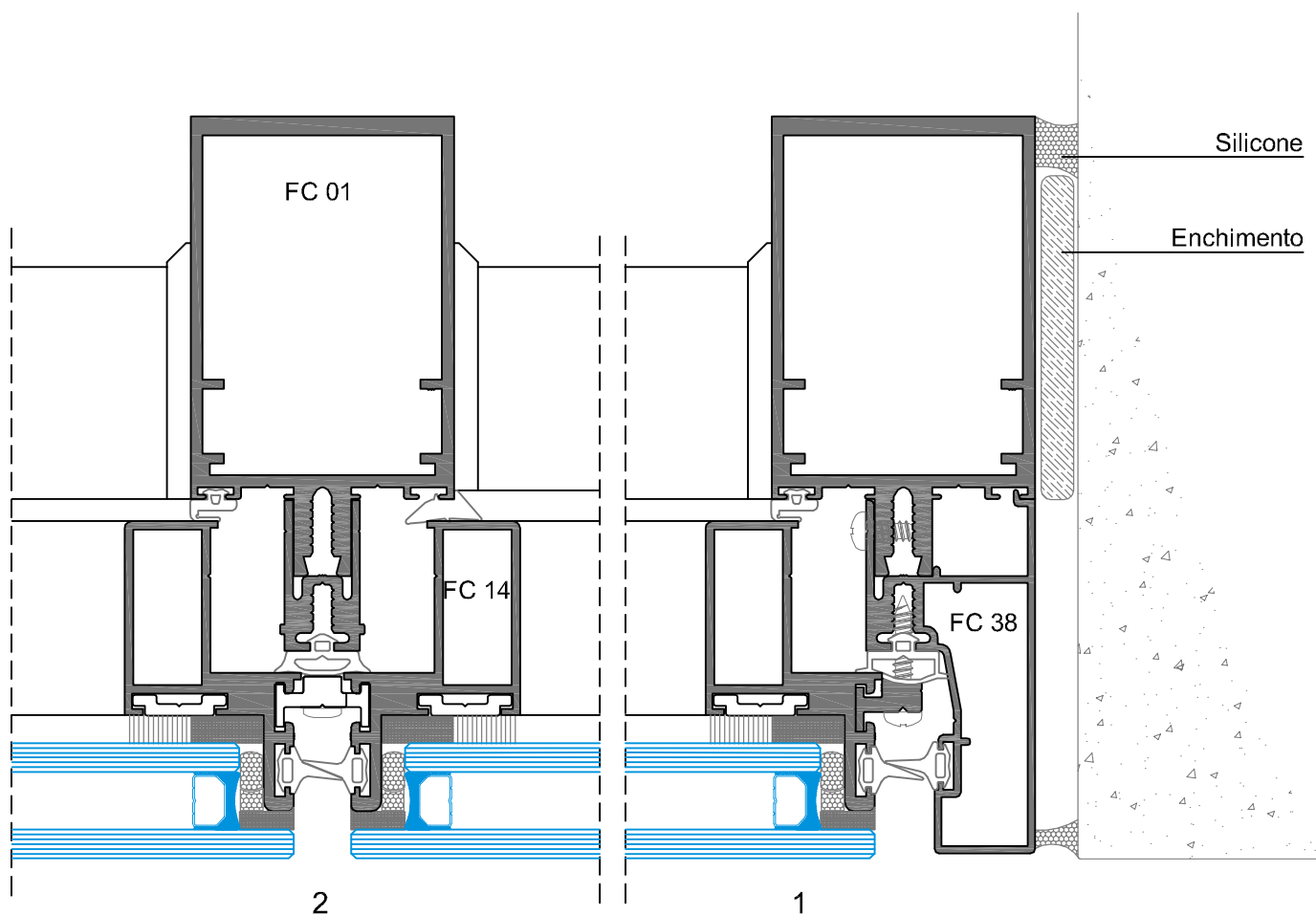
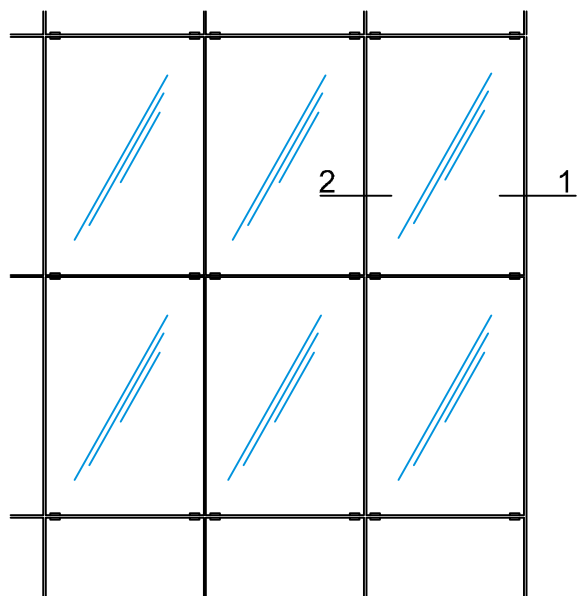


OS PORMENORES MENCIONADOS SÃO A TÍTULO INFORMATIVO.

PARA PROJECTOS ESPECÍFICOS CONTACTAR O DEPARTAMENTO TÉCNICO.

ALÇADO DO SISTEMA DE FACHADA OCULTA

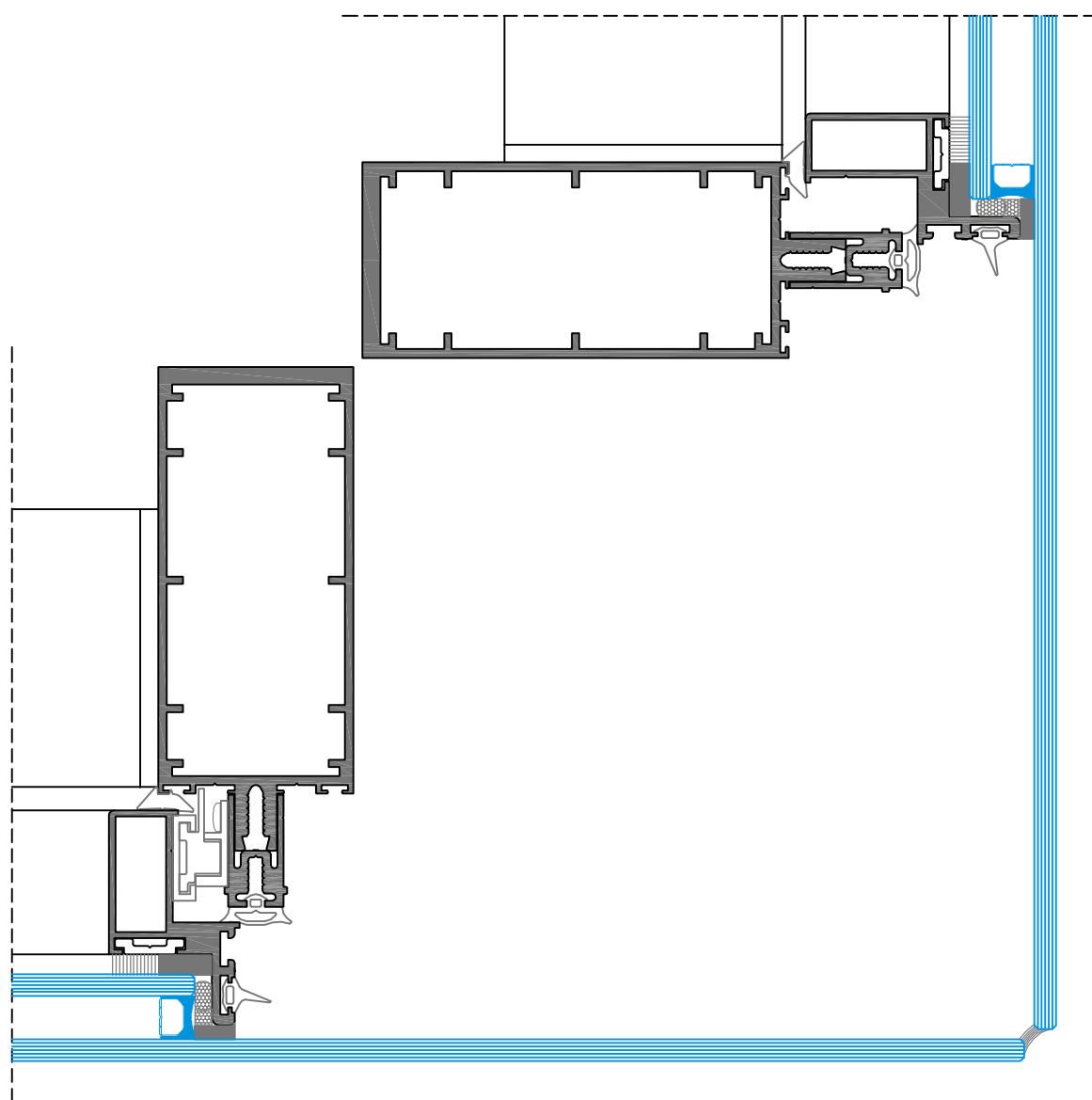
PORMENOR ALTERNATIVO - REMATE À PAREDE COM FC 38



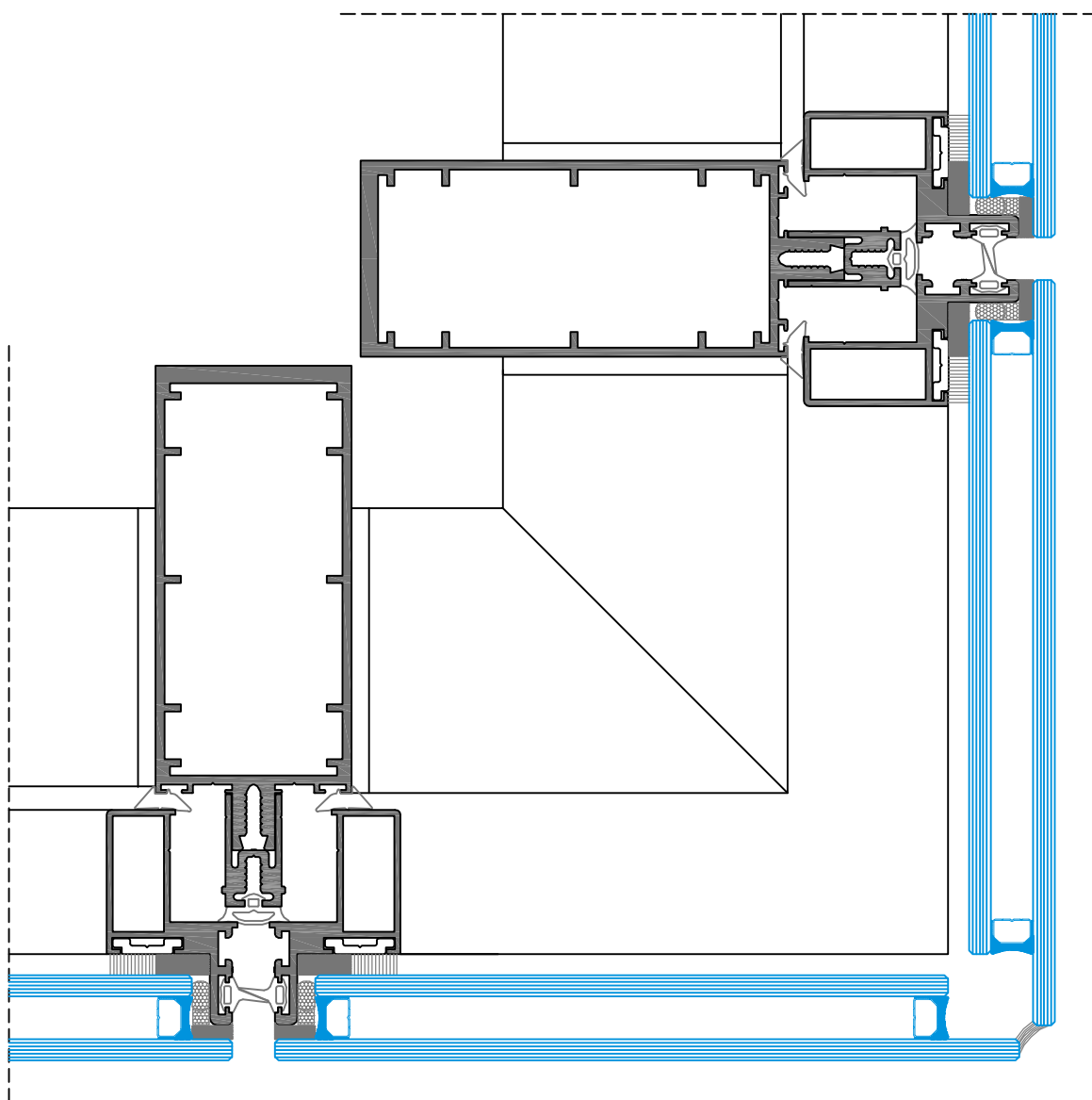
OS PORMENORES MENCIONADOS SÃO A TÍTULO INFORMATIVO.

PARA PROJECTOS ESPECÍFICOS CONTACTAR O DEPARTAMENTO TÉCNICO.

FACHADA OCULTA  
CANTO 90°

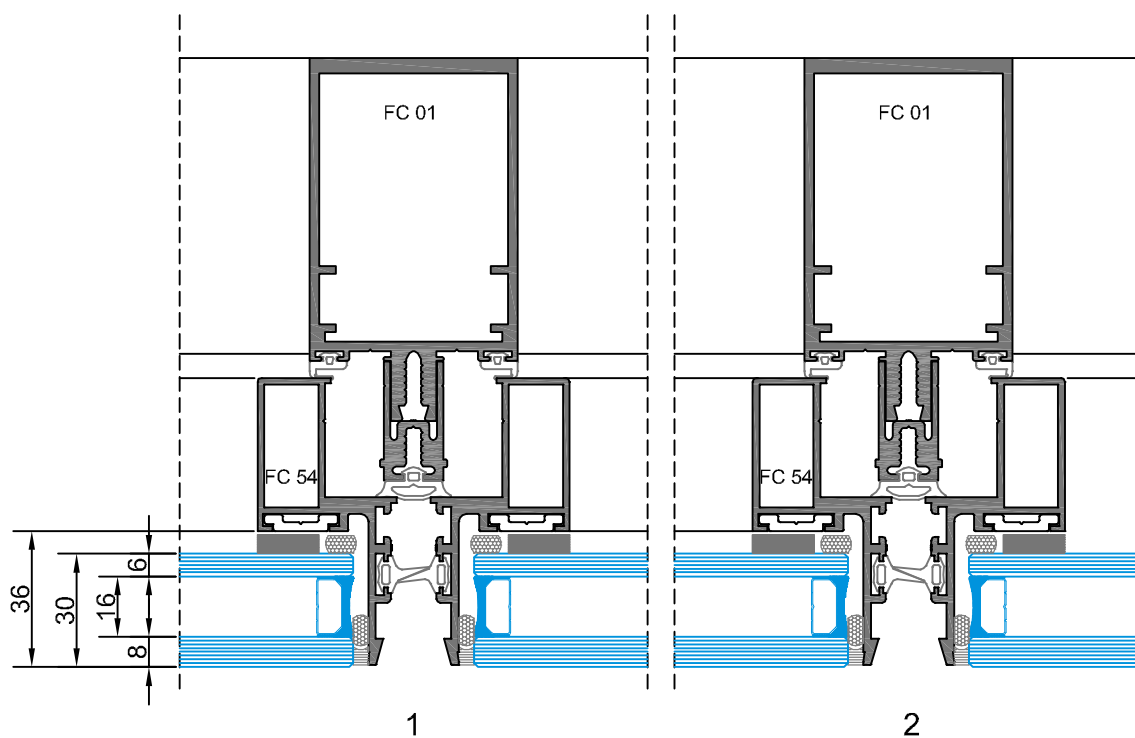
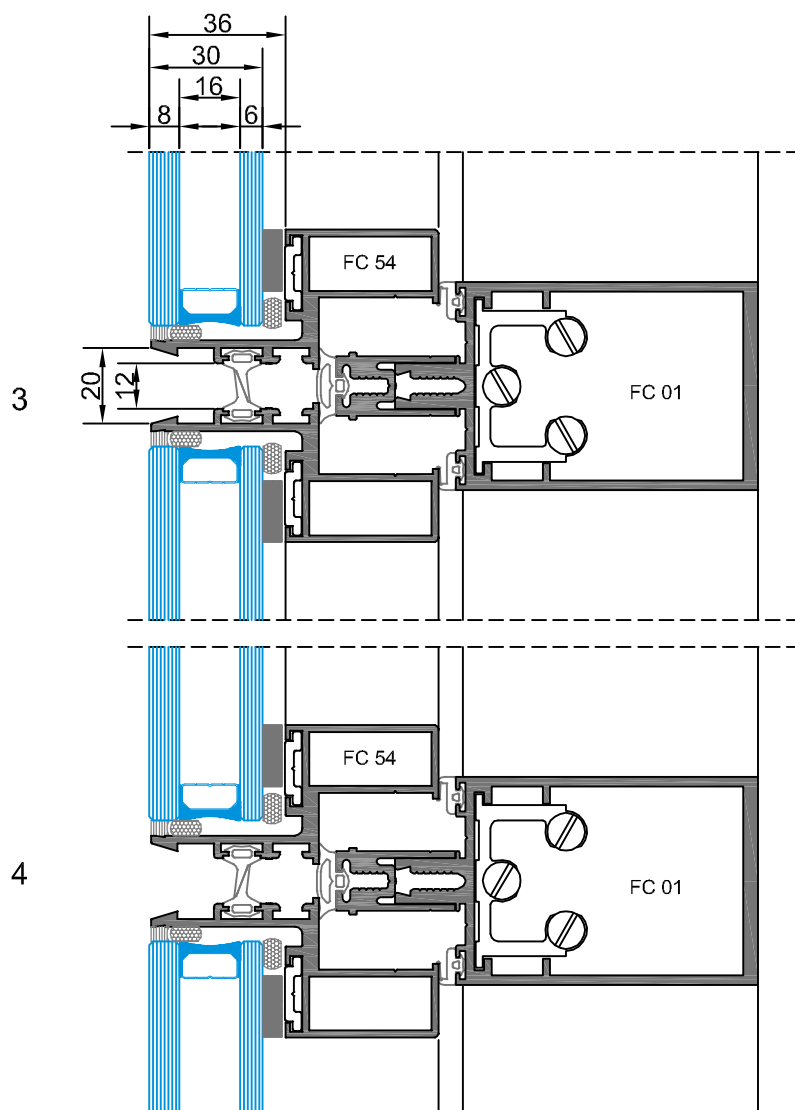
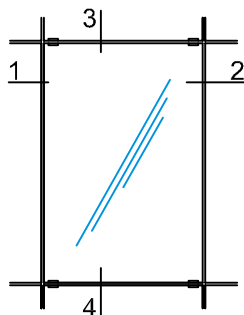


FACHADA OCULTA  
CANTO 90°





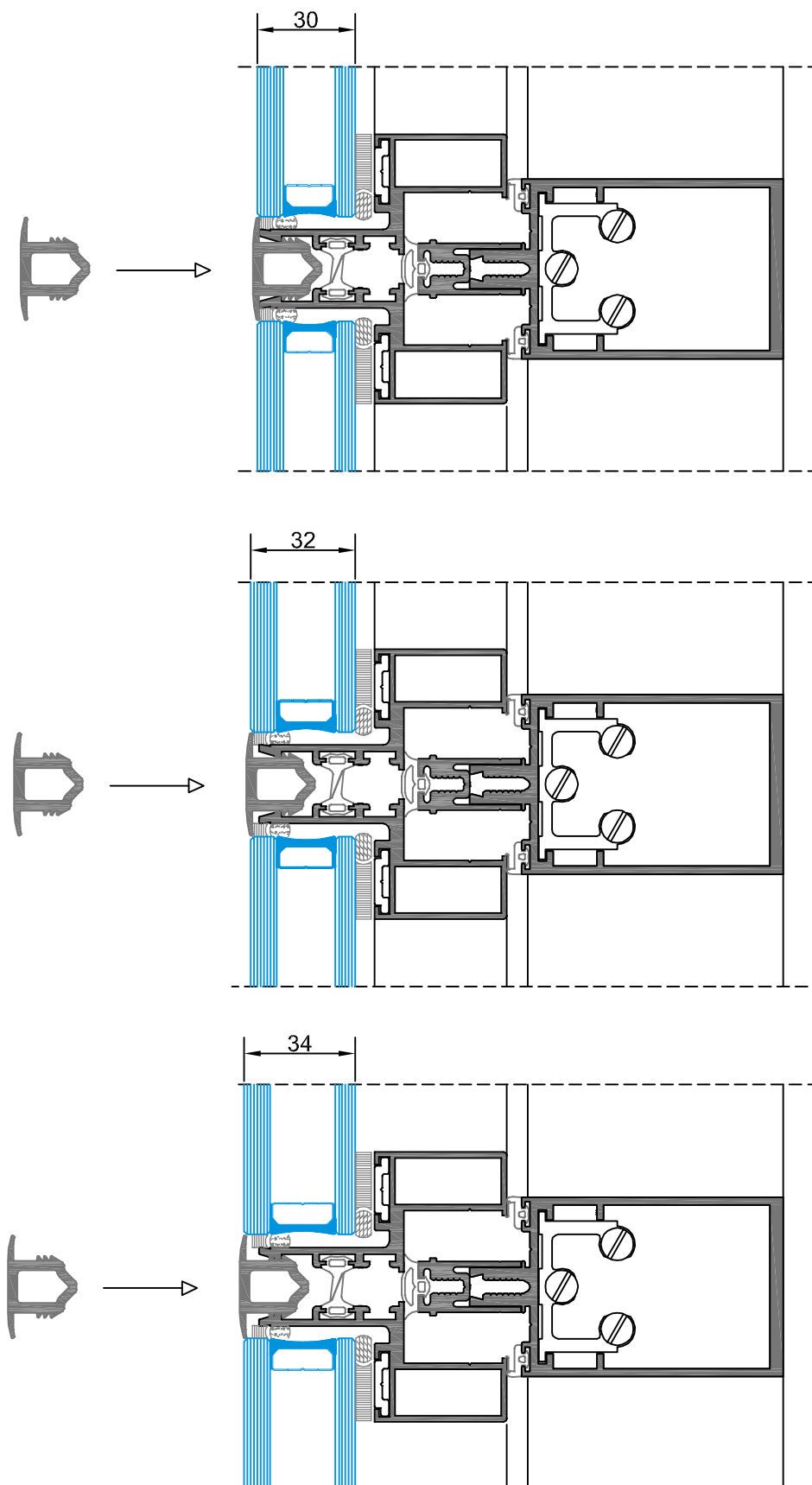
FACHADA OCULTA  
COM O PERFIL FC54



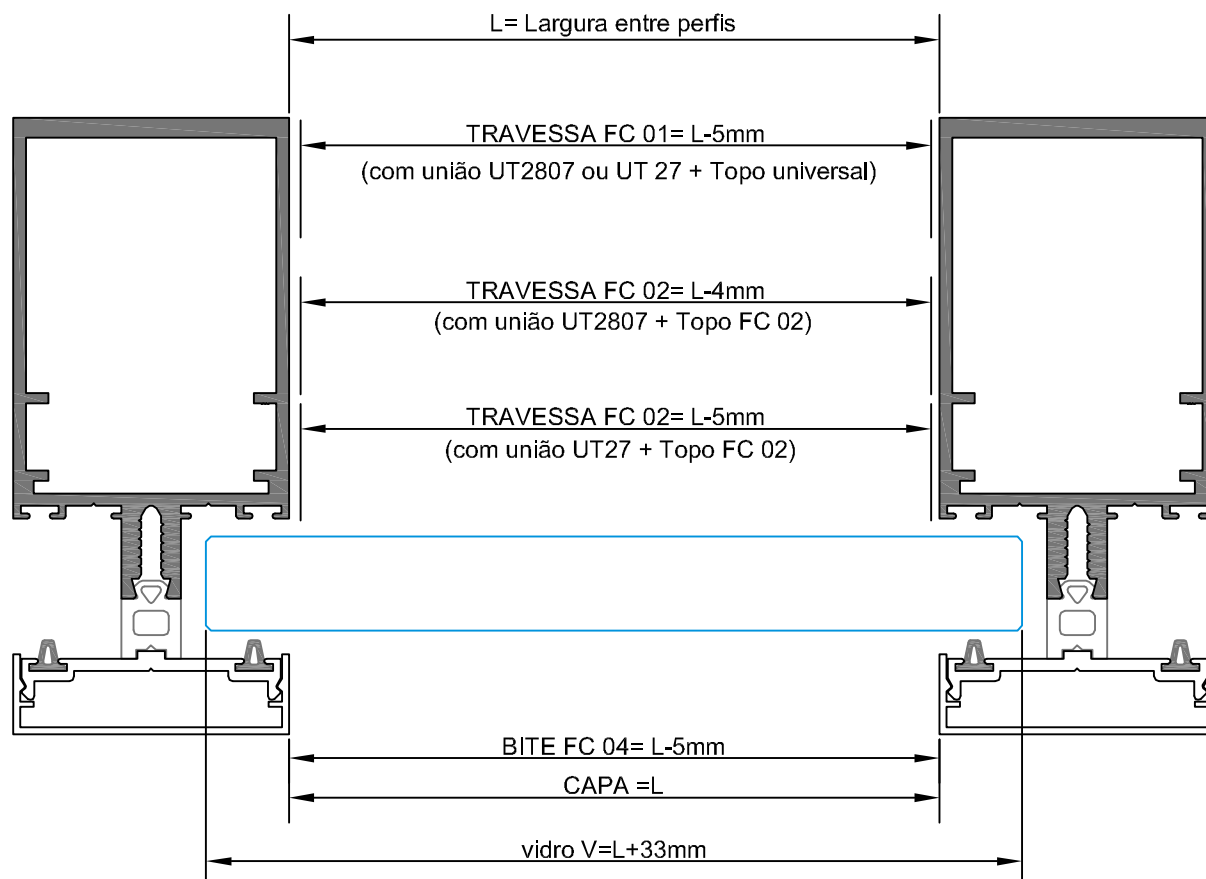
FACHADA OCULTA

JUNTA 2156

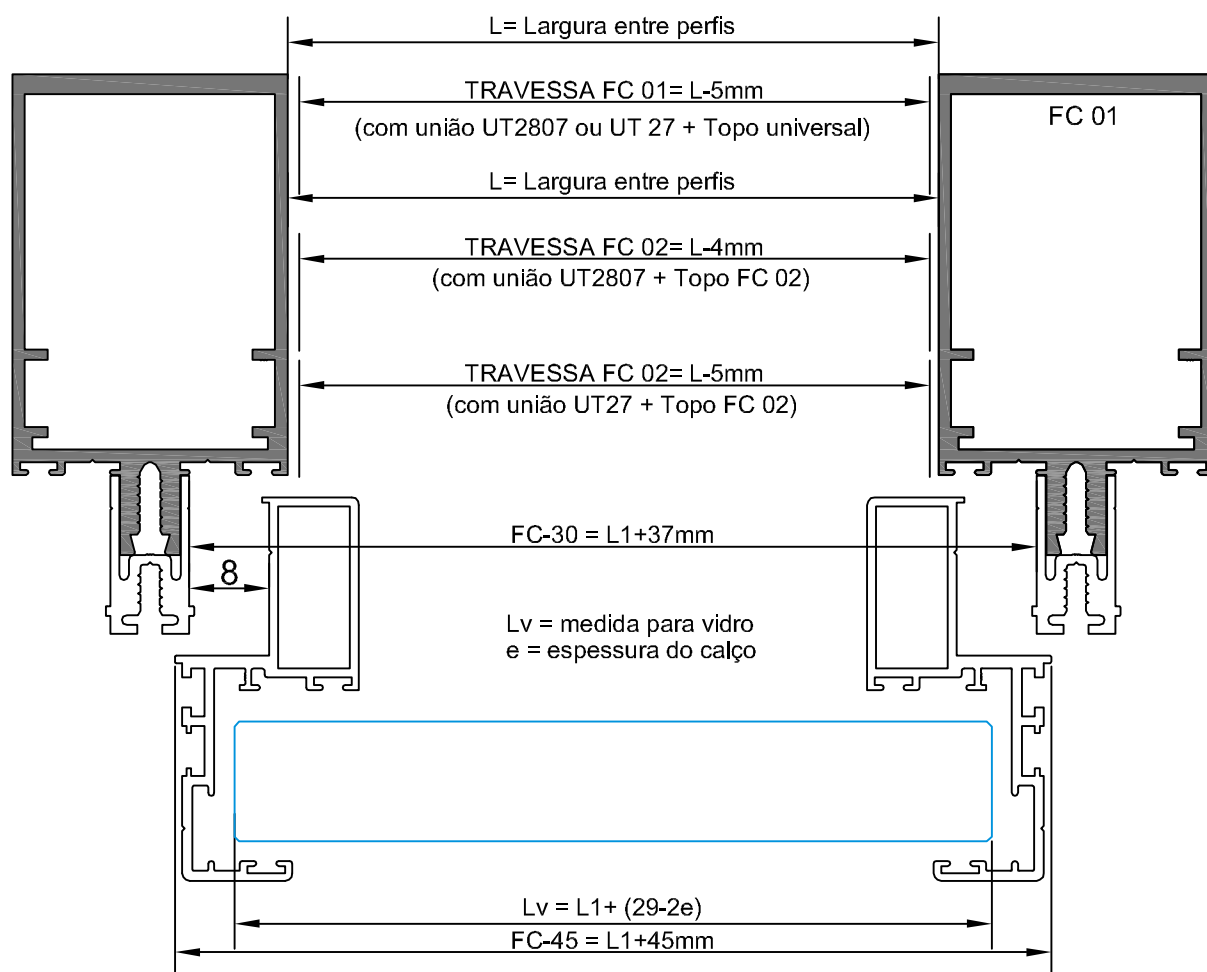
A APLICAÇÃO DA JUNTA 2156 É OPCIONAL



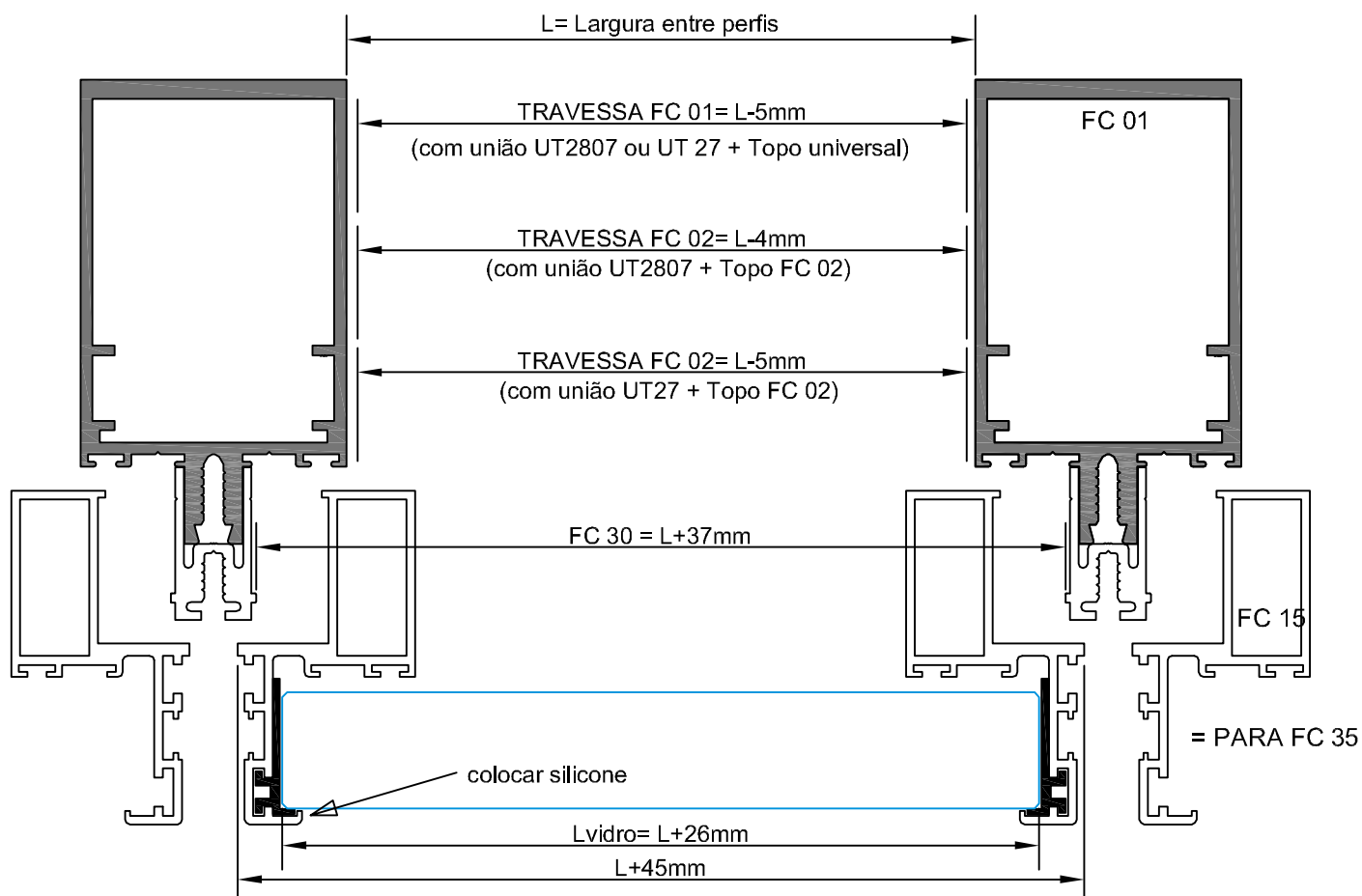
## MEDIDAS DE CORTE: FACHADA ESTRUTURAL



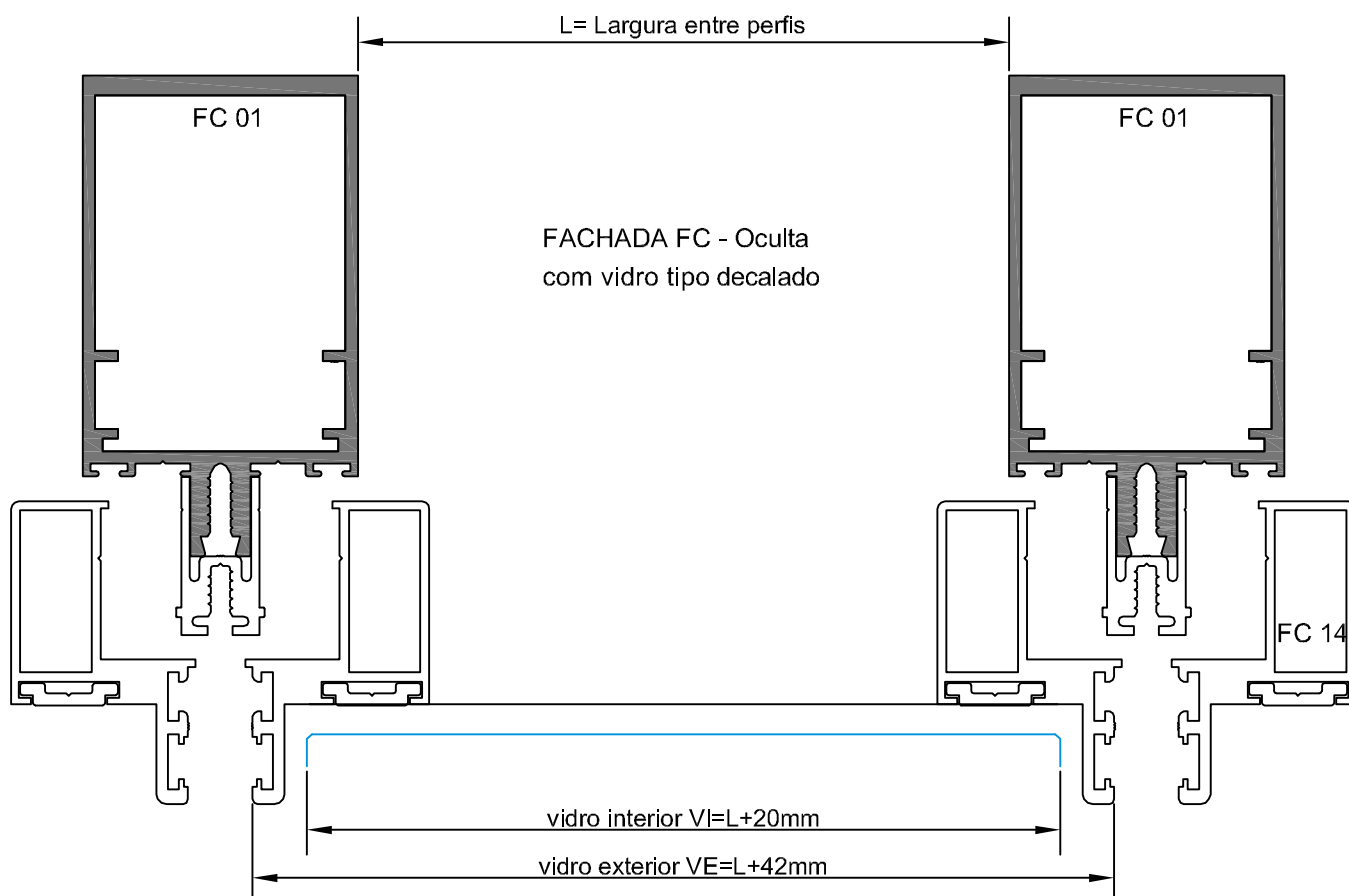
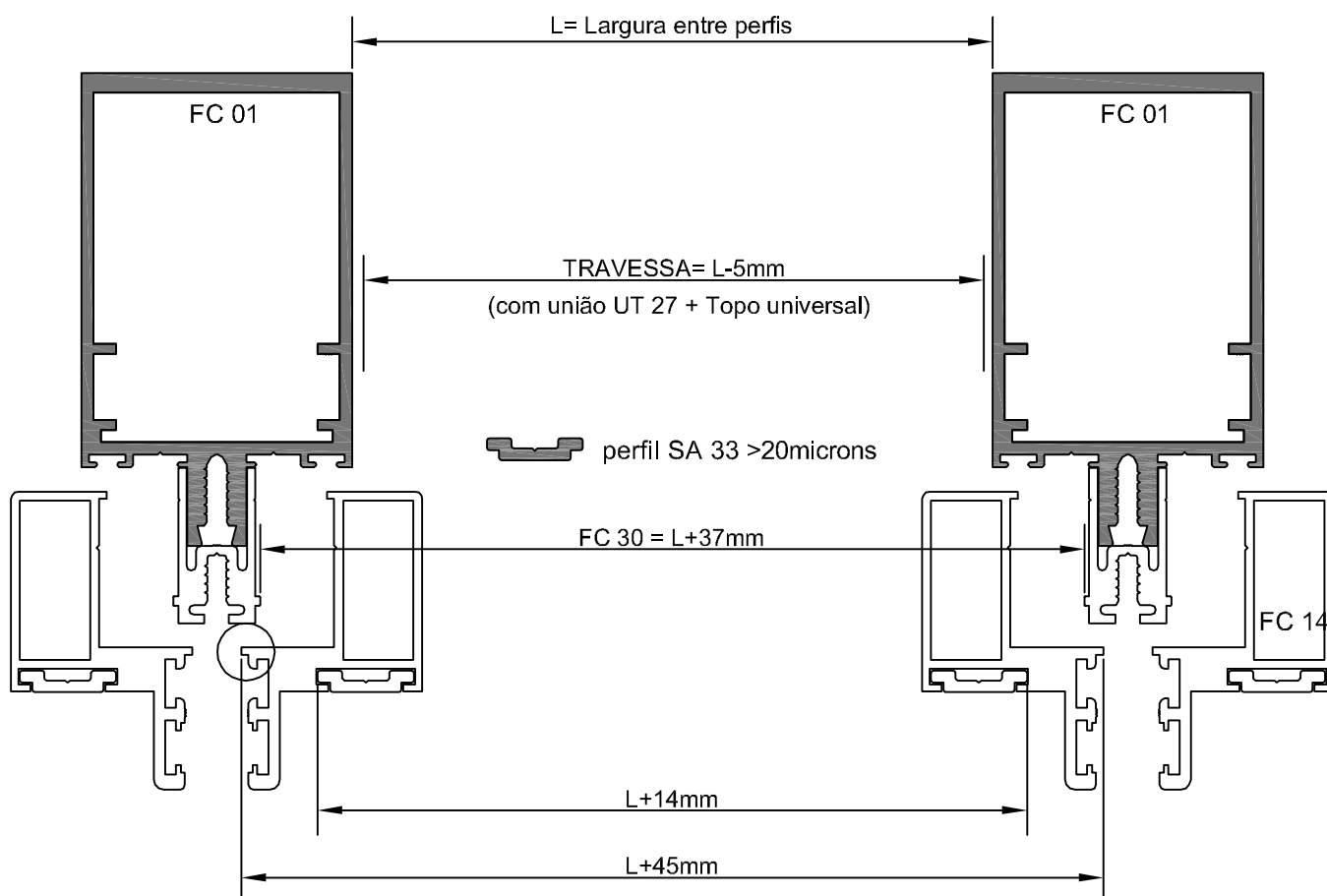
MEDIDAS DE CORTE: FACHADA SEMI-OCULTA COM FC-45

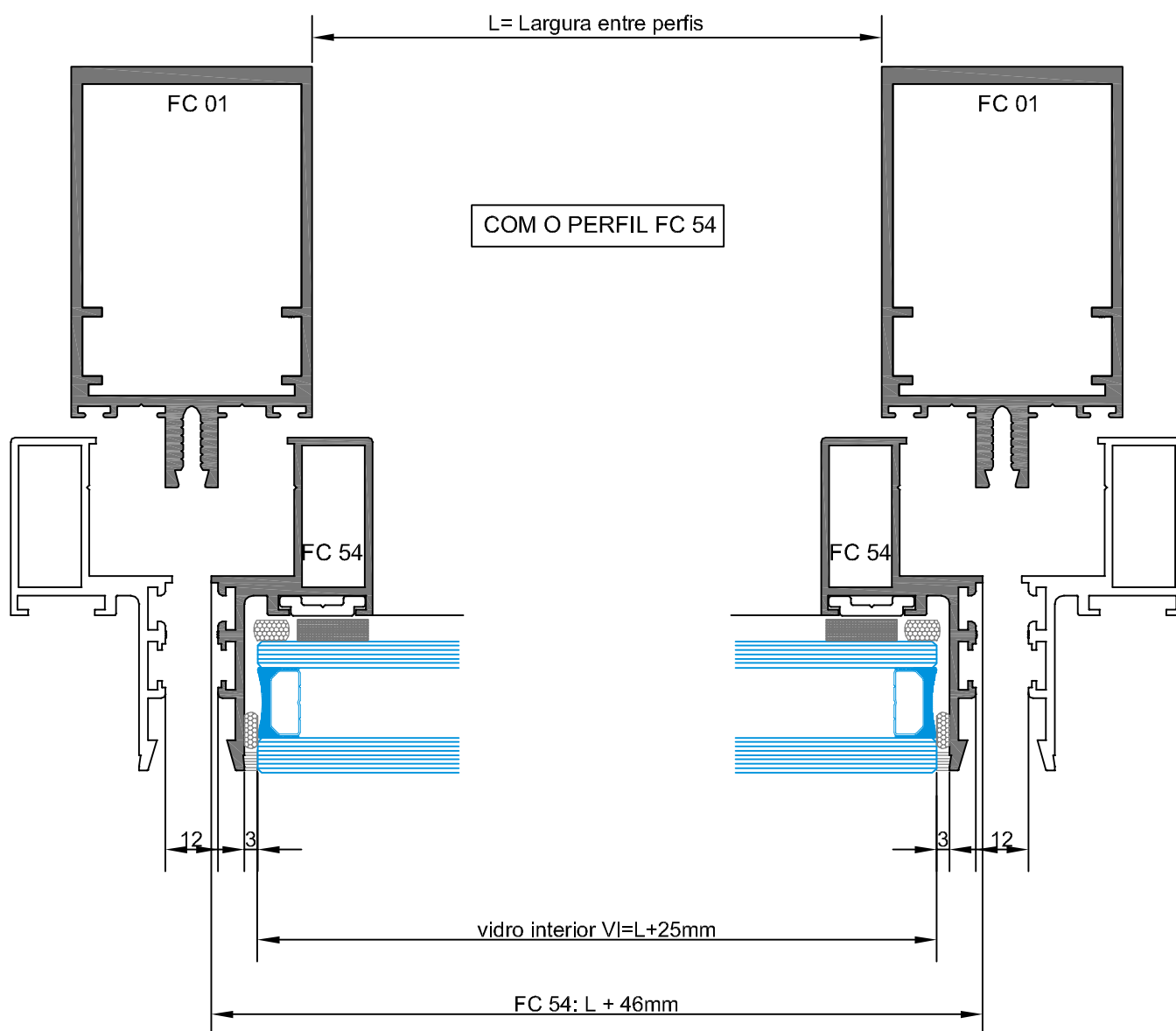


MEDIDAS DE CORTE: FACHADA SEMI-OCULTA COM FC-15



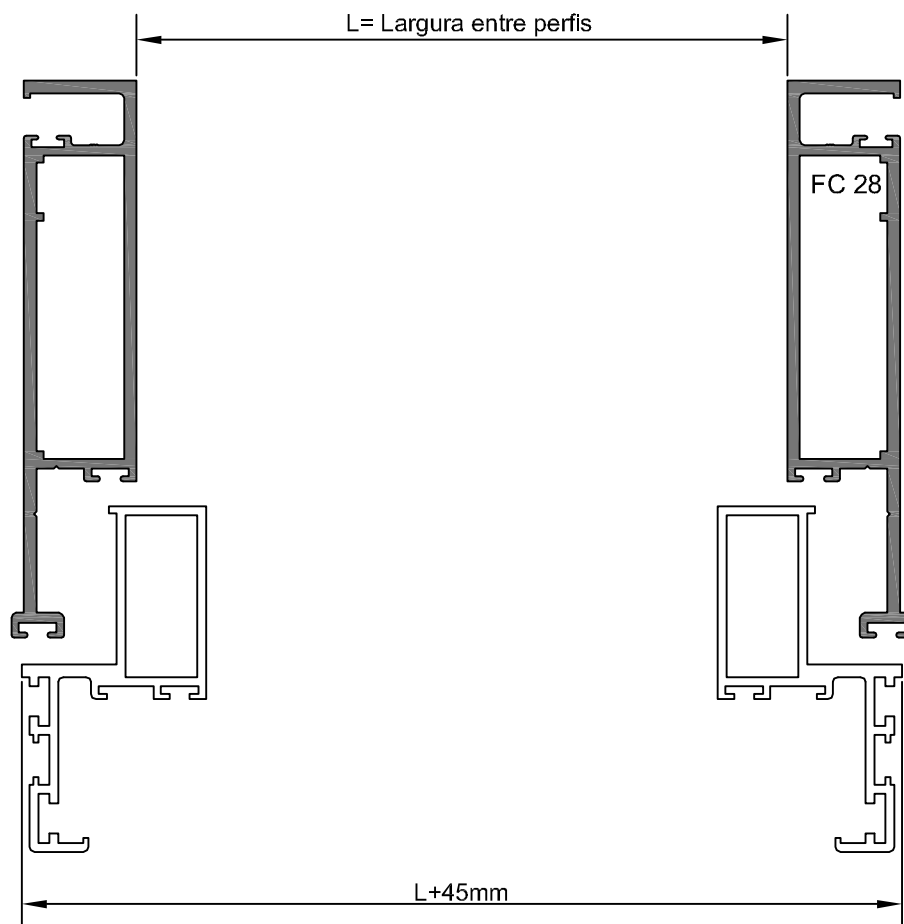
## MEDIDAS DE CORTE: FACHADA OCULTA



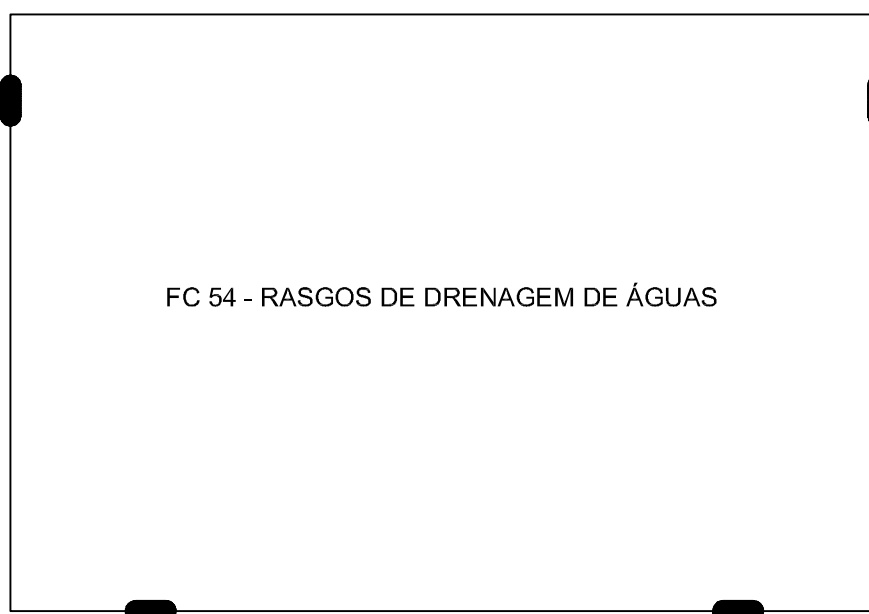
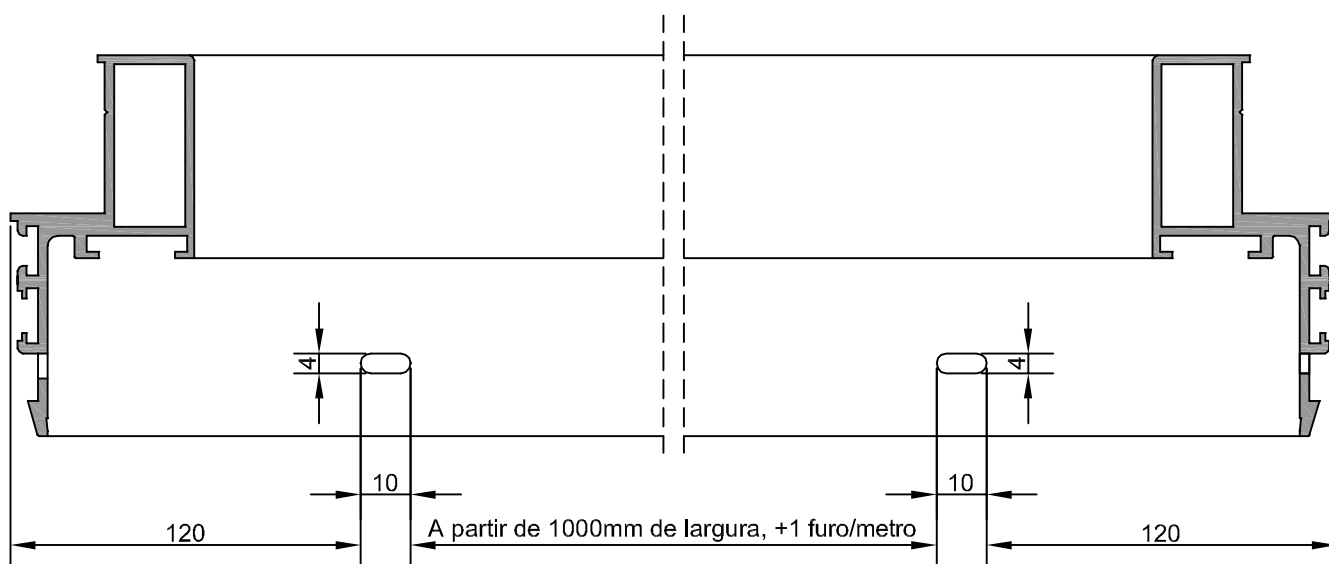
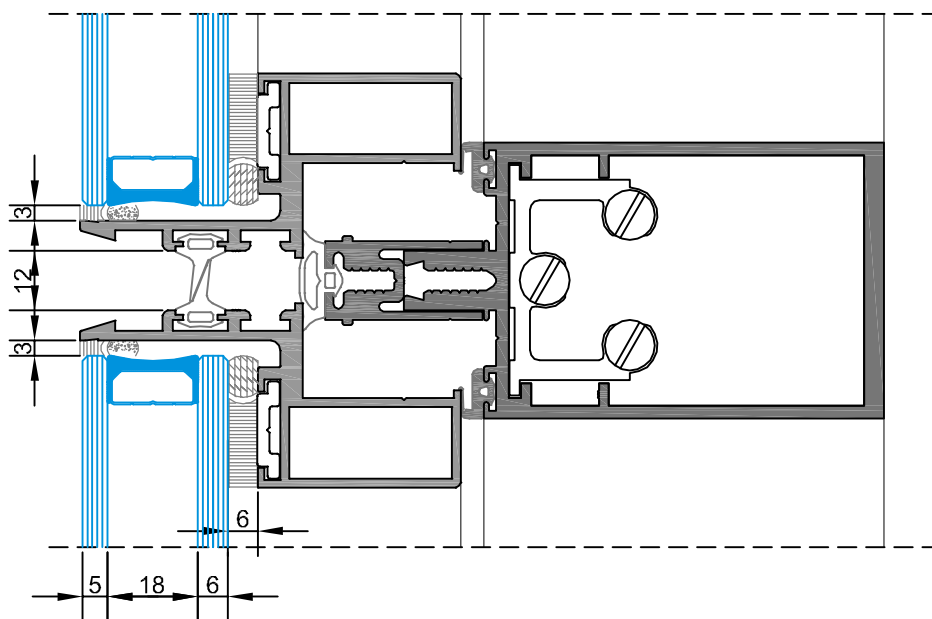


## MEDIDAS DE CORTE:

FACHADAS OCULTA/SEMI-OCULTA COM MEIO MONTANTE FC-28

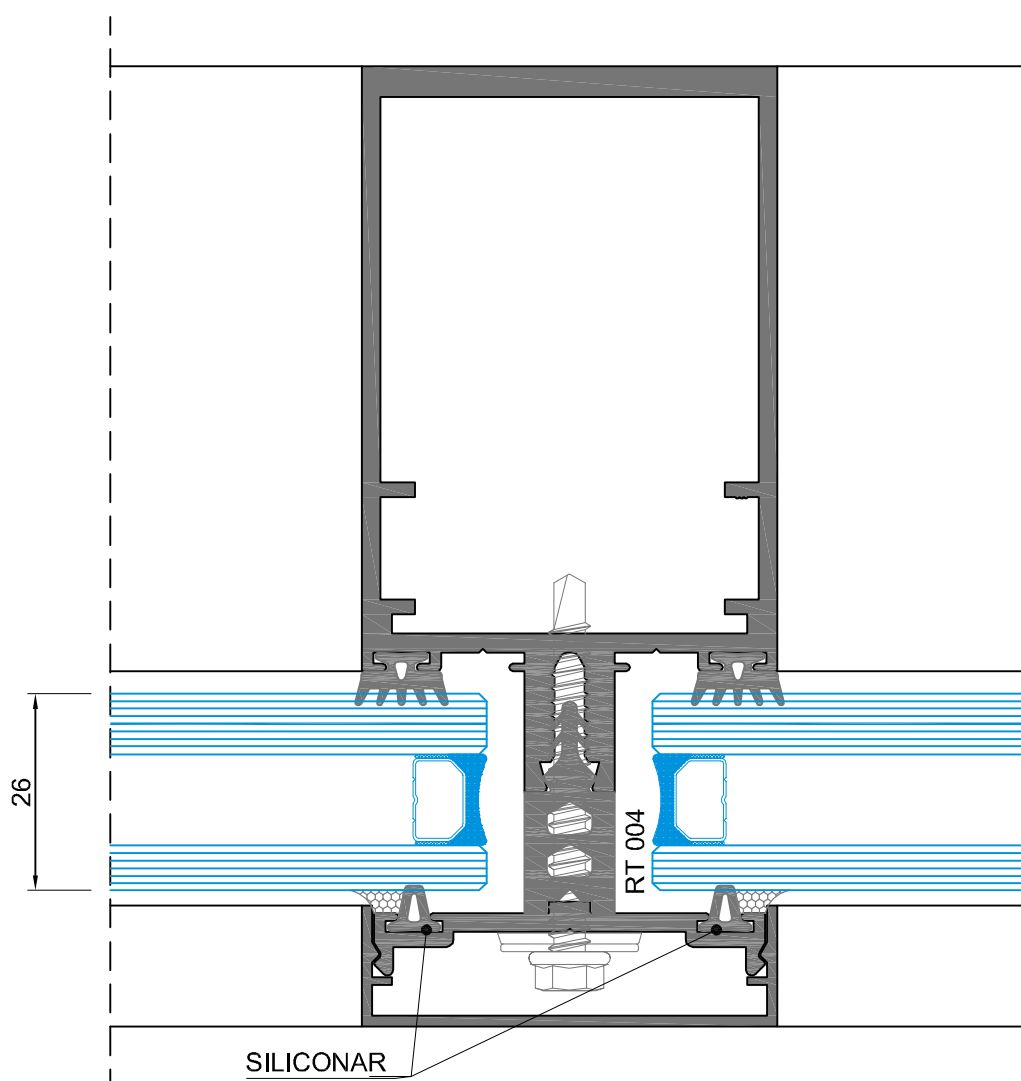
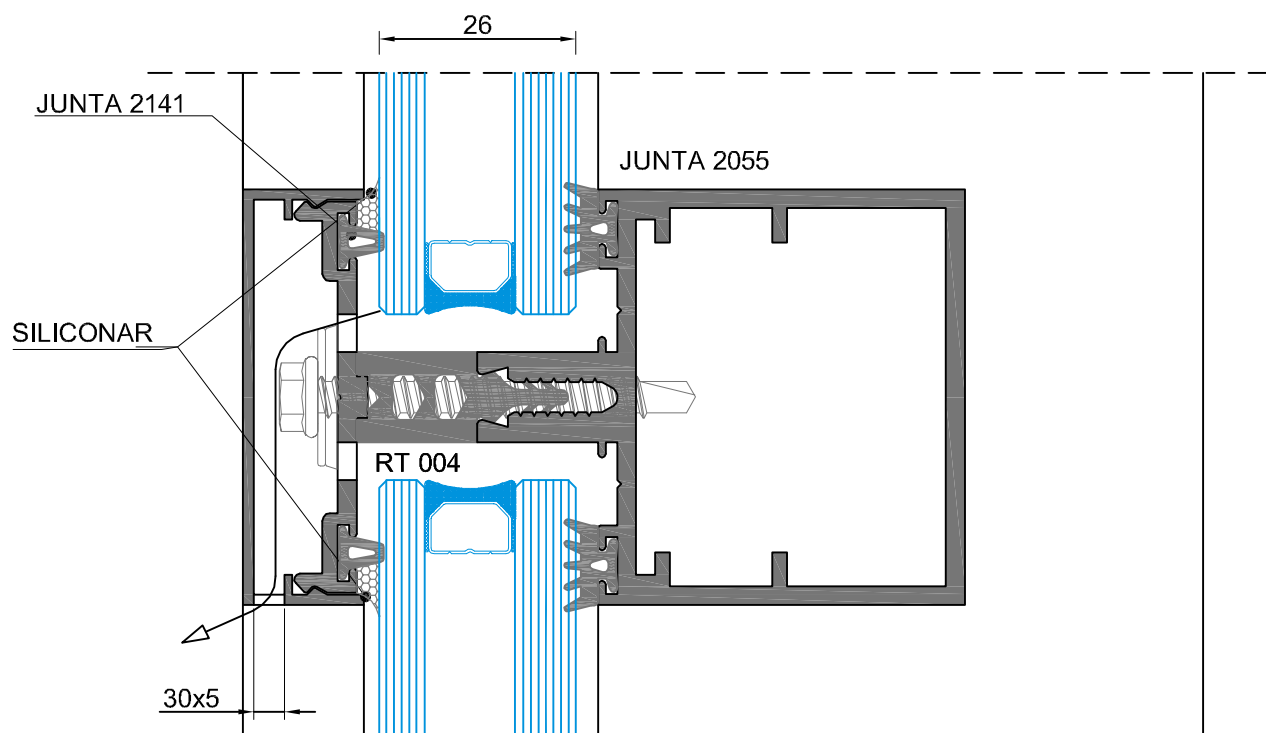


FC 54 - RASGOS DE VENTILAÇÃO/DRENAGEM DE ÁGUAS

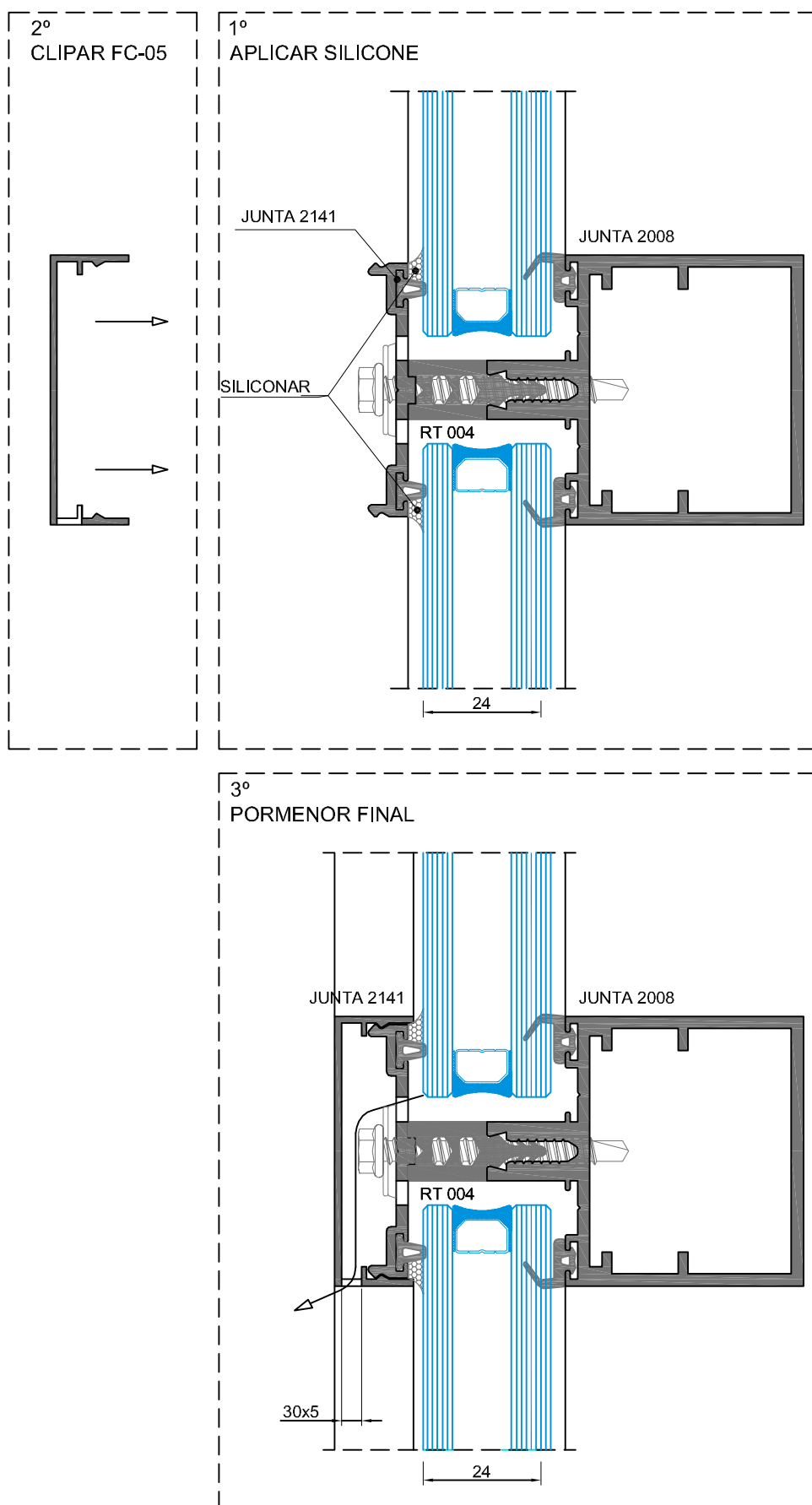




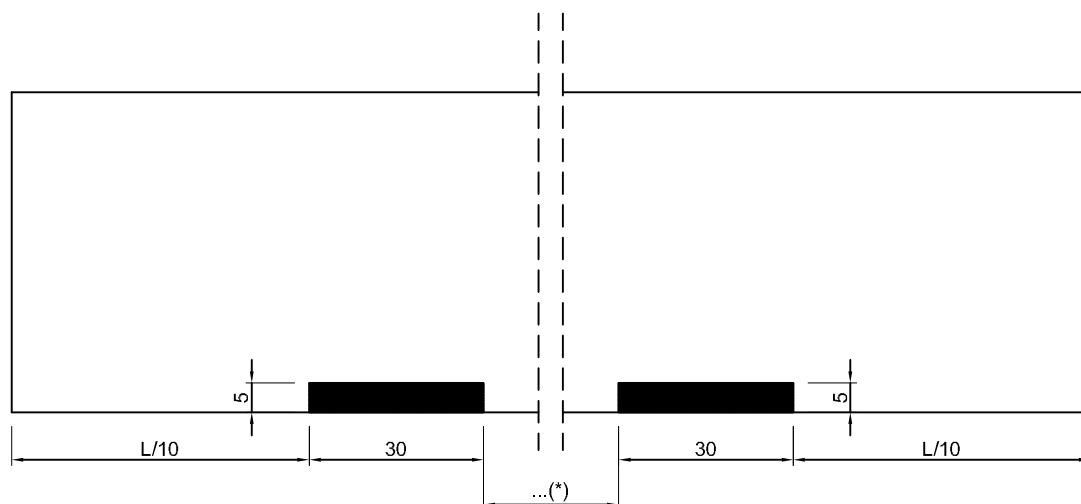
APLICAÇÃO COM O PERFIL FC 01+FC 02+FC 04+FC 05



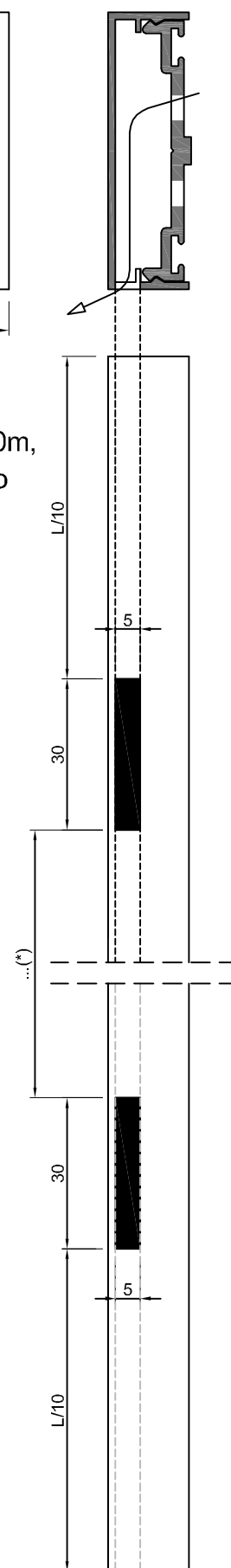
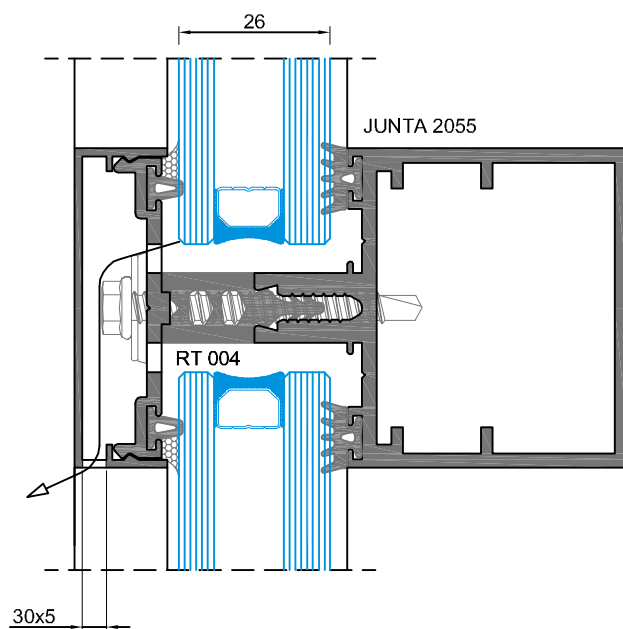
FC 04 - APLICAÇÃO DO SILICONE



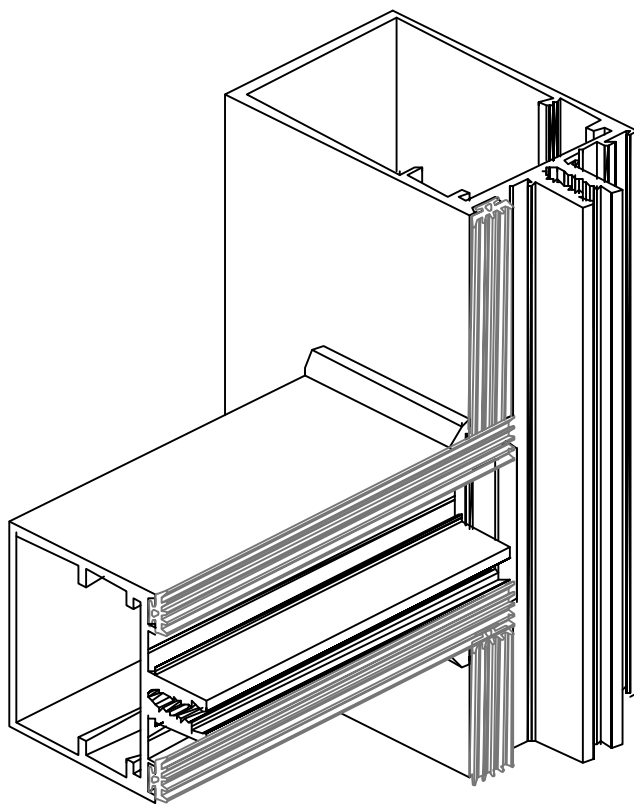
## FC 05 - RASGOS DE DRENAGEM DE ÁGUAS



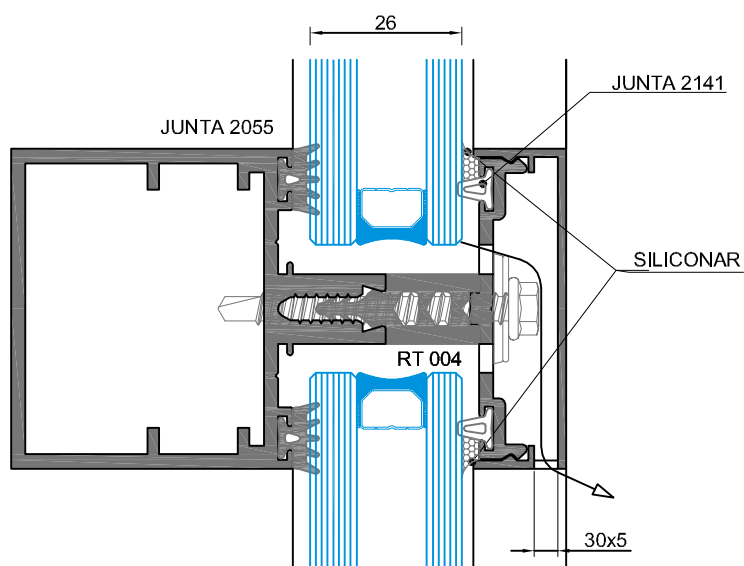
\* Até 1,00 m de largura, mínimo 2 rasgos por cada largura. A partir de 1,00m, serão realizados mais um rasgo com as mesmas dimensões por cada meio metro a mais.



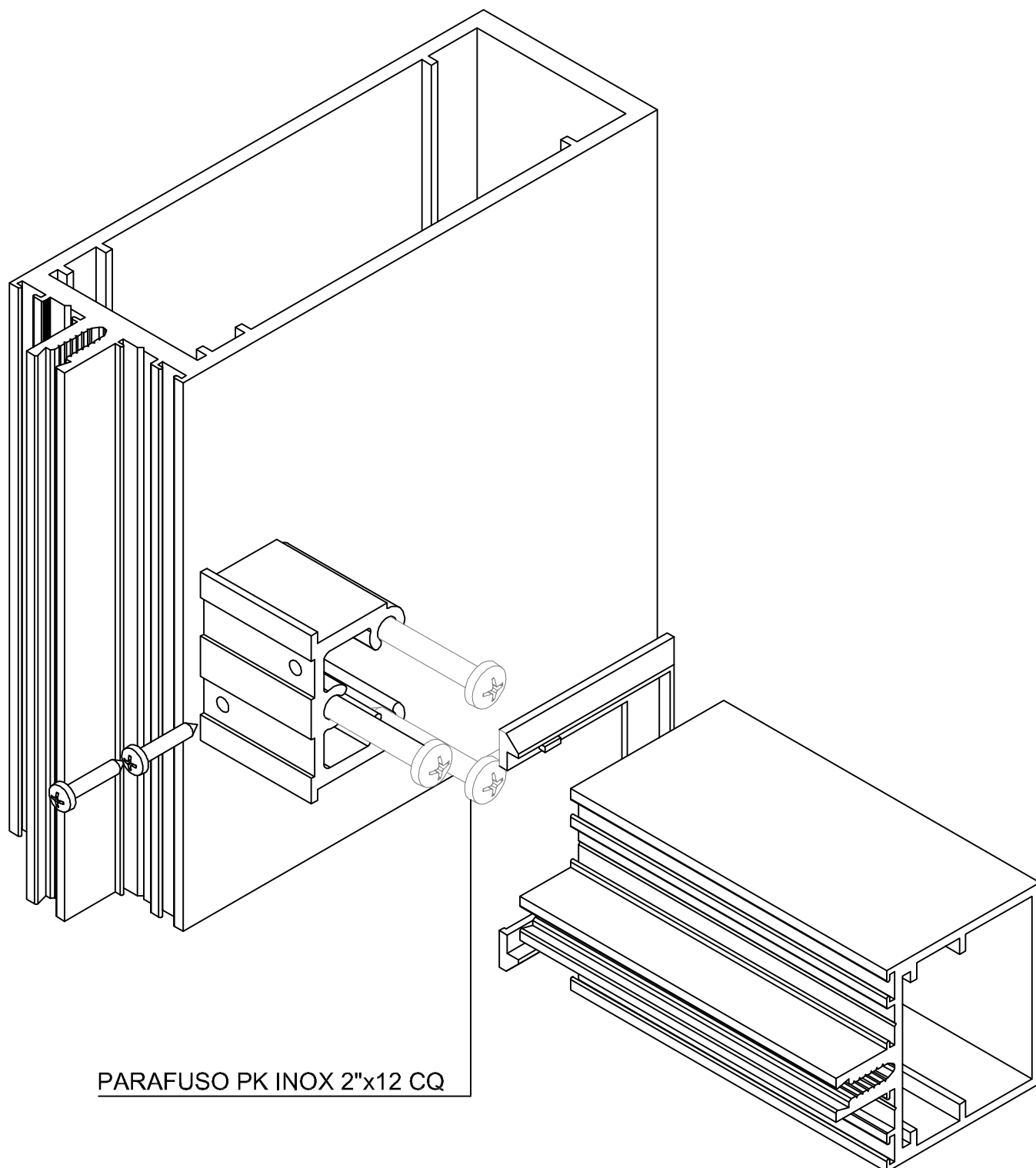
APLICAÇÃO DOS VEDANTES: Junta 2055



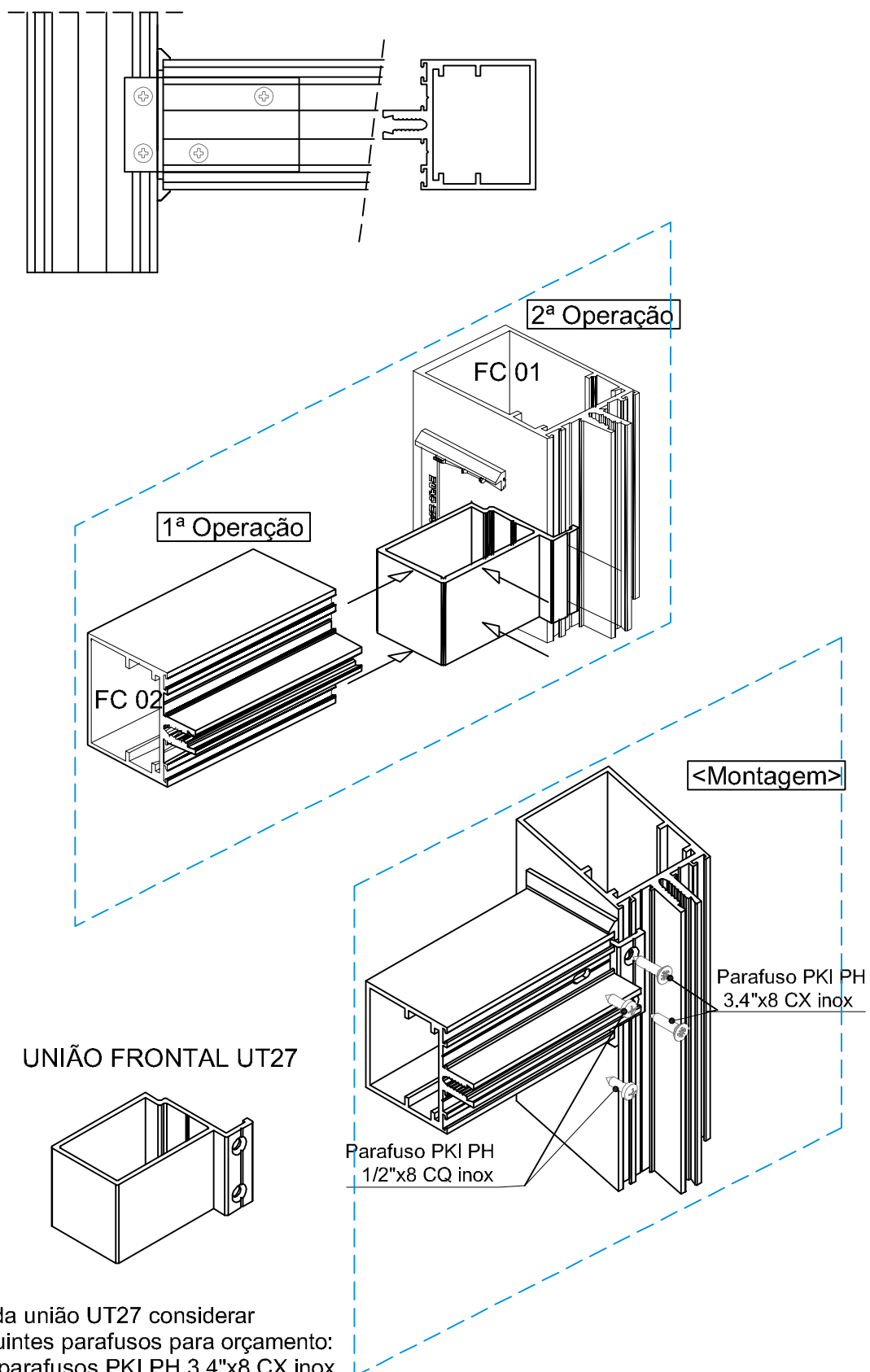
APLICAÇÃO DOS VEDANTES: Junta 2141



## APLICAÇÃO DA UNIÃO P/ TRAVESSAS UT2807



APLICAÇÃO DA UNIÃO FRONTAL P/ TRAVESSAS UT27

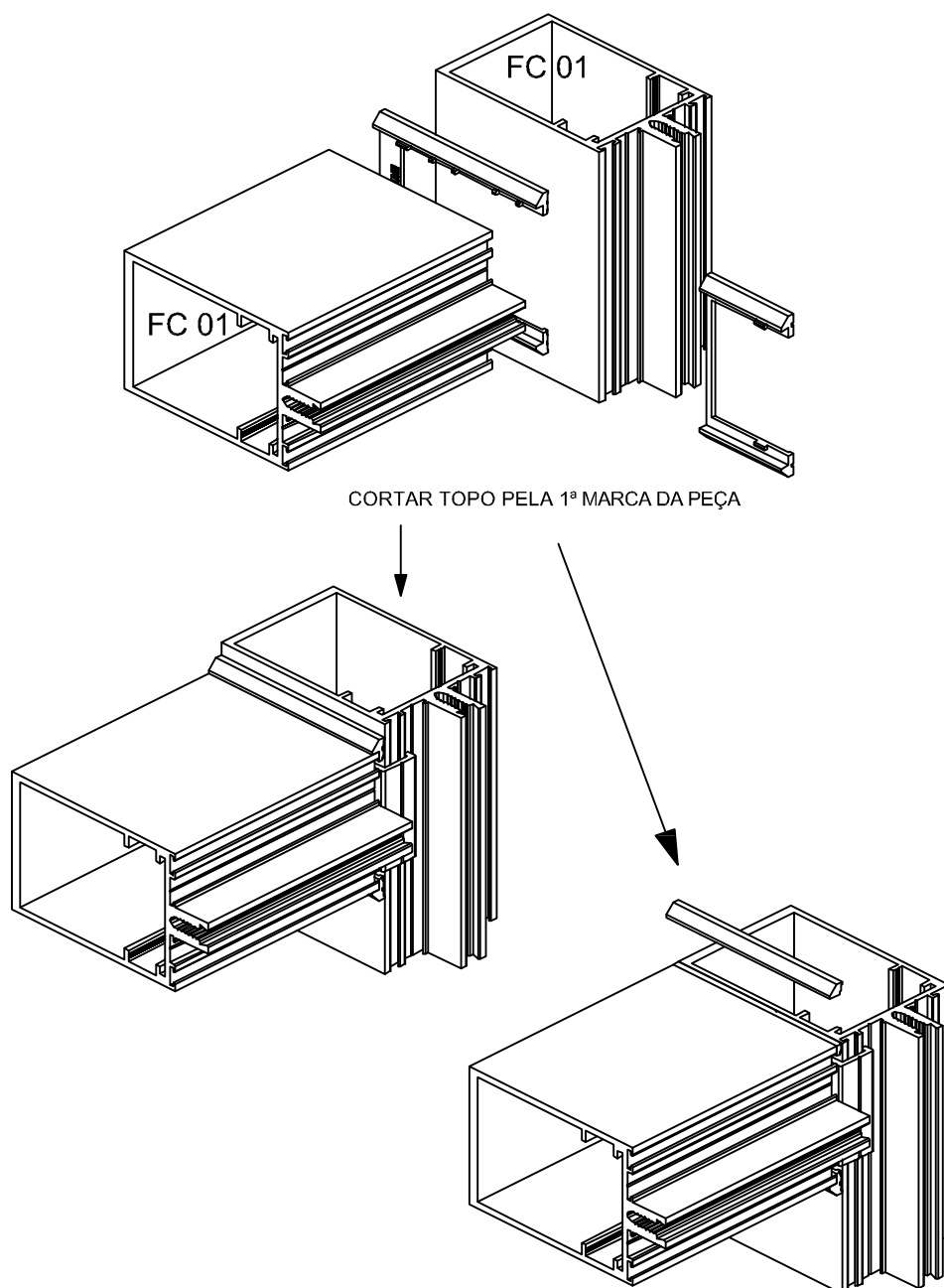


**Nota:**

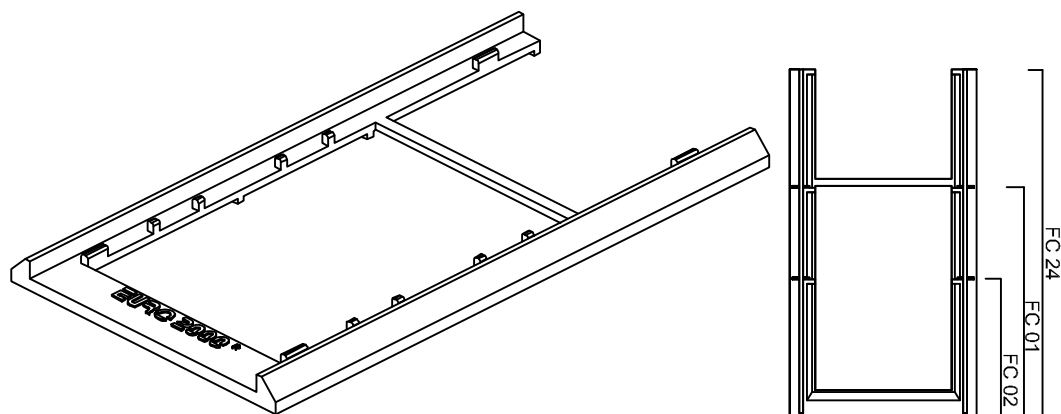
Por cada união UT27 considerar os seguintes parafusos para orçamento:

- 2 parafusos PKI PH 3.4"x8 CX inox
- 2 parafusos PKI PH 1/2"x8 CQ inox

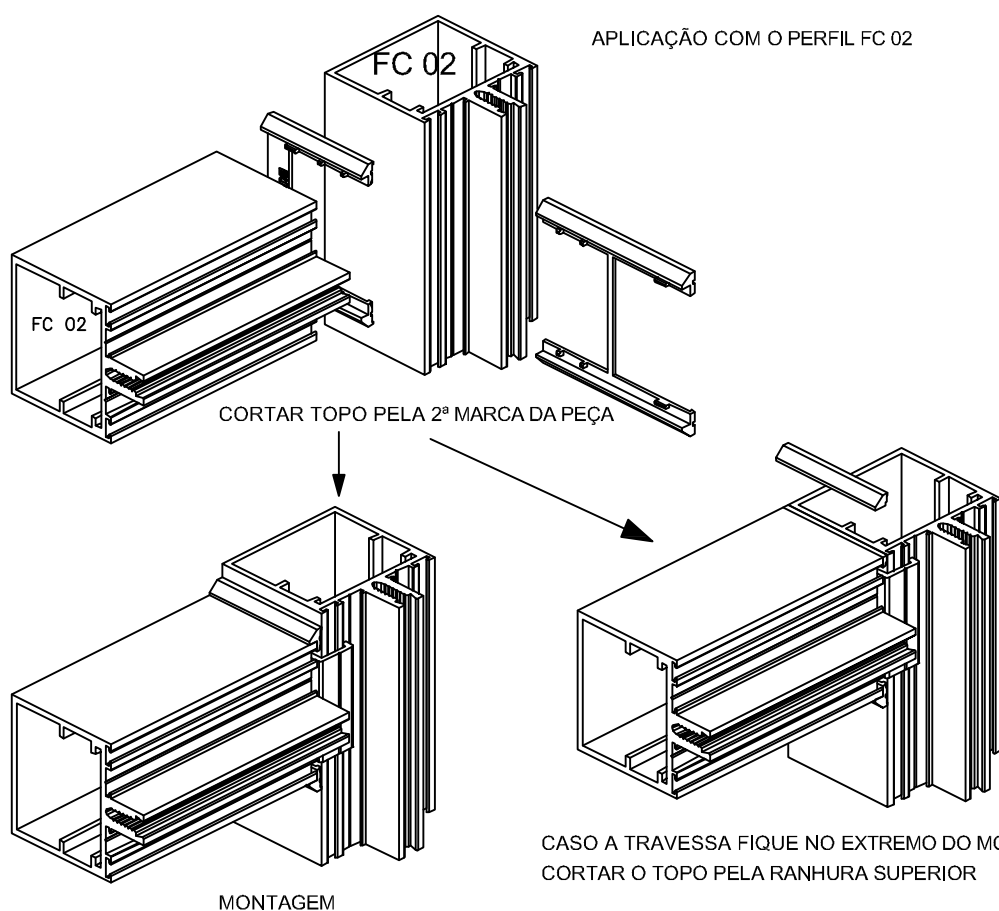
## TOPO FC UNIVERSAL: Aplicação com o perfil FC 01



TOPO FC UNIVERSAL: Aplicação com o perfil FC 02

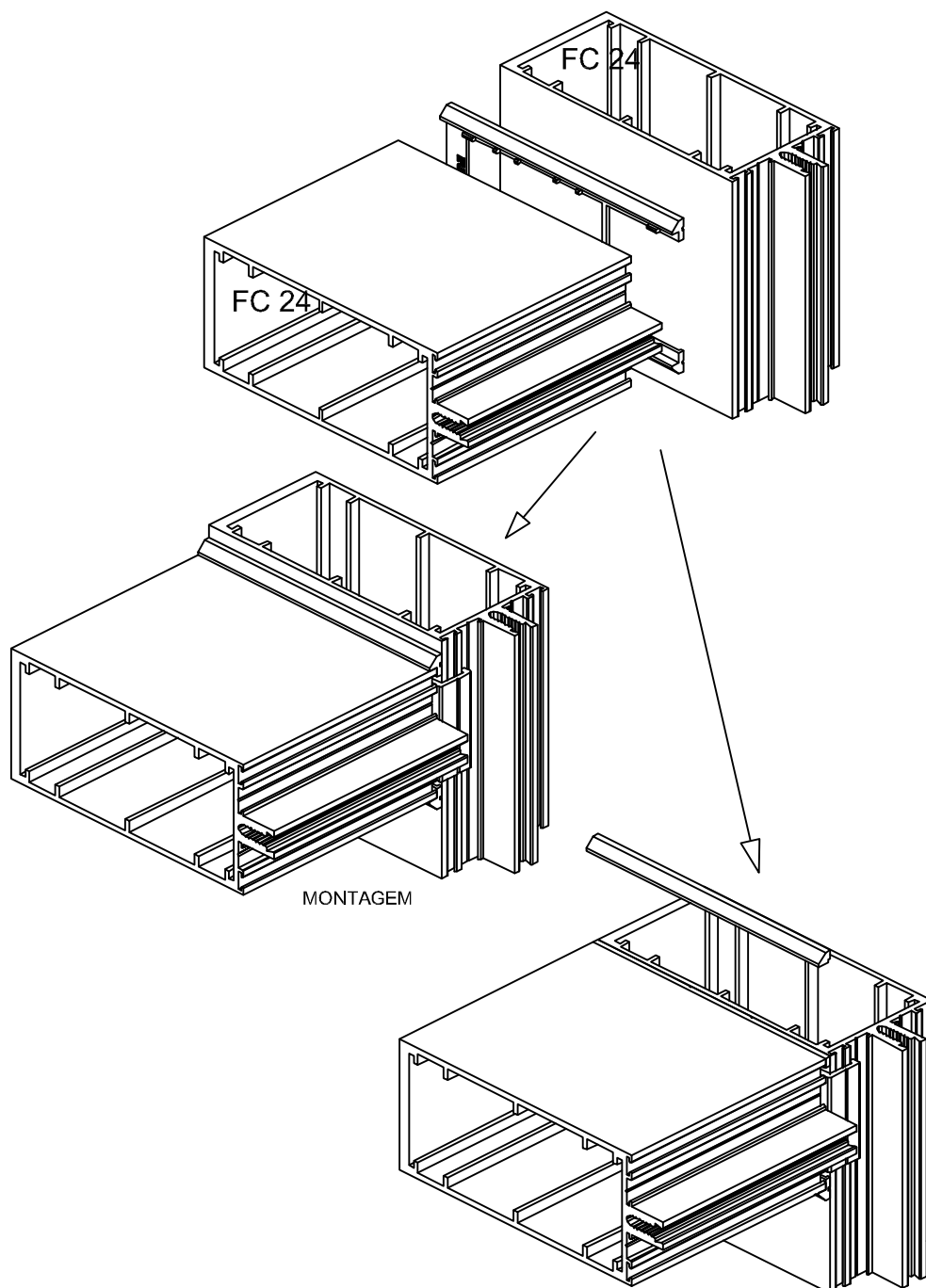


REF.º TOPO FC UNIVERSAL PRETO



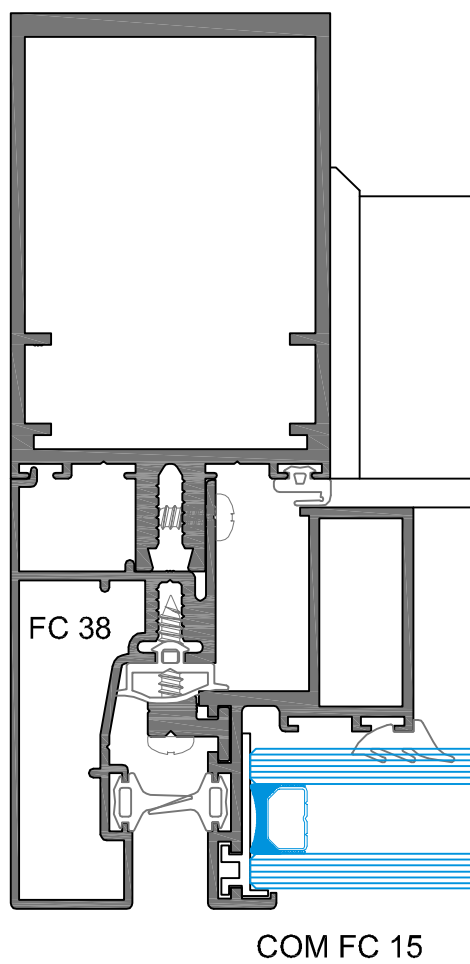
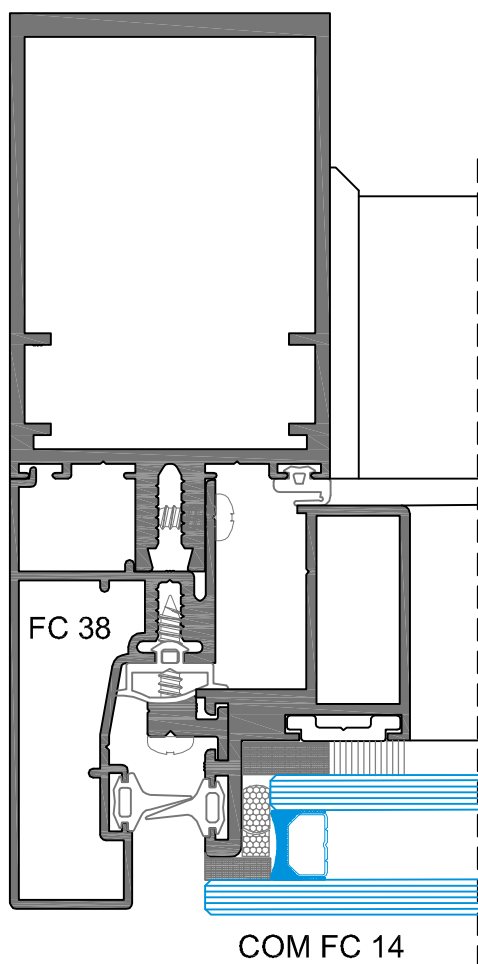
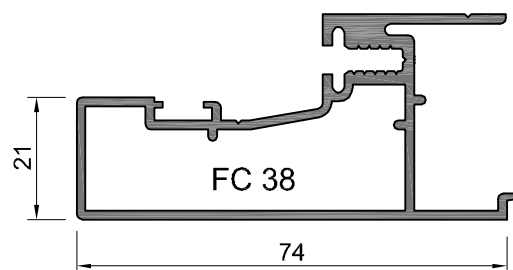


## TOPO FC UNIVERSAL: Aplicação com o perfil FC 24

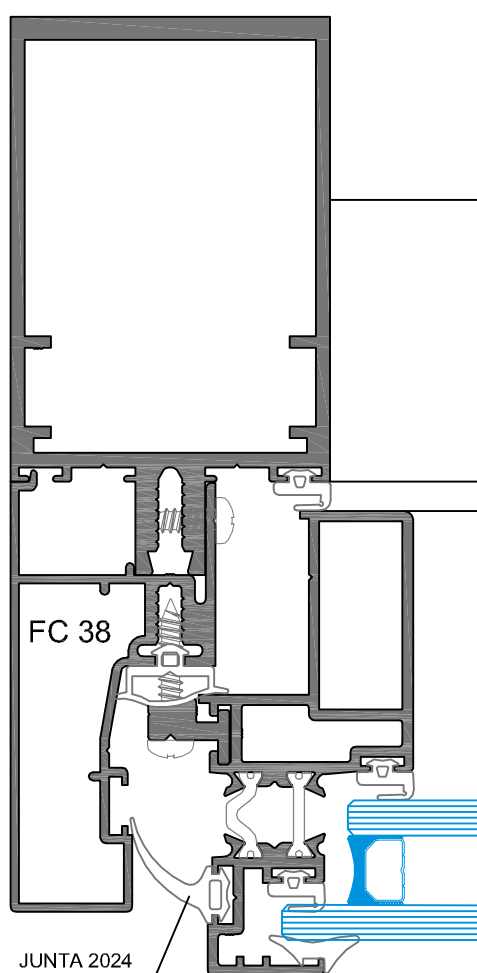


CASO A TRAVESSA FIQUE NO EXTREMO DO MONTANTE,  
CORTAR O TOPO PELA RANHURA SUPERIOR

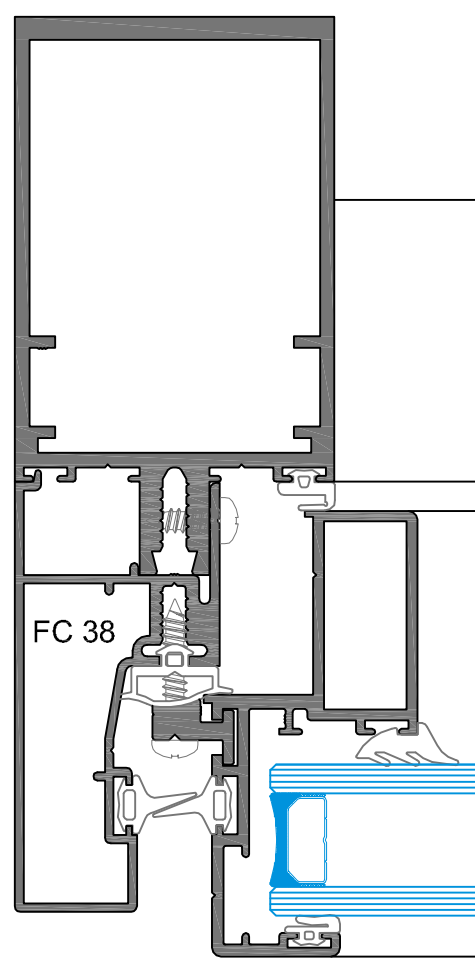
APLICAÇÃO DE PERFIL DE REMATE (PARA SEMI-OCULTA/OCULTA)



## APLICAÇÃO DE PERFIL DE REMATE (PARA SEMI-OCULTA/OCULTA)

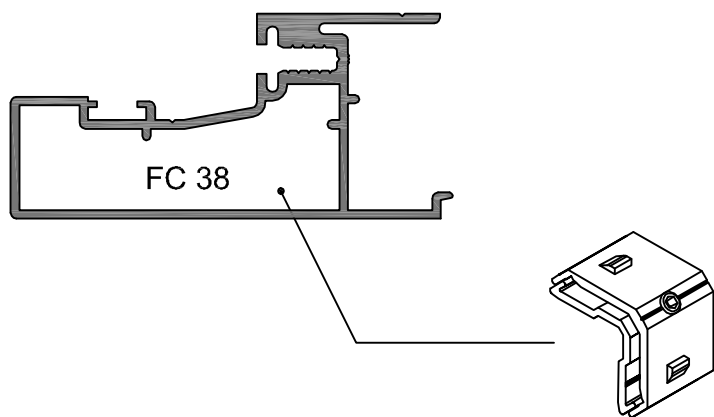


COM FC 35

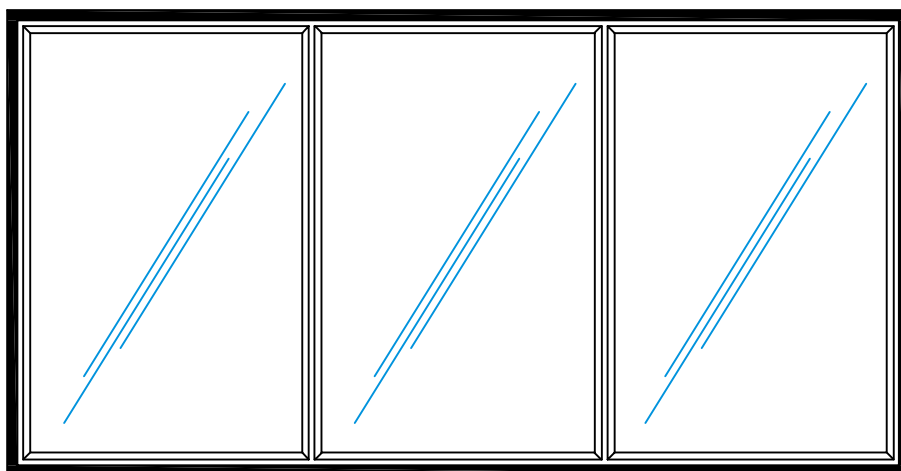


COM FC 45

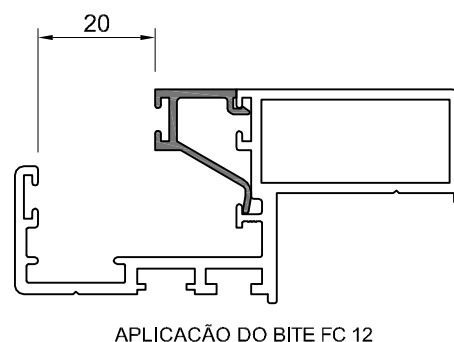
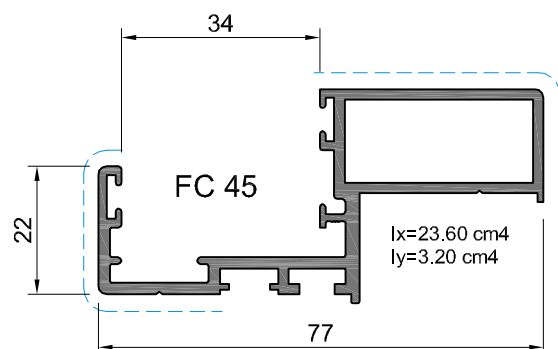
APLICAÇÃO DO PERFIL FC 38 À MEIA ESQUADRIA (PARA SEMI-OCULTA/OCULTA)



ESQUADRO 26-3214-135

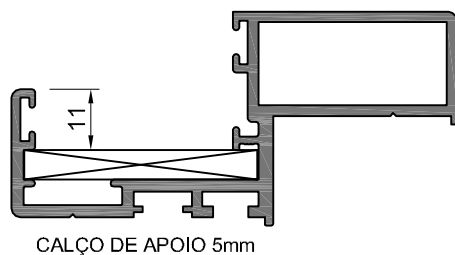


## FC 45 (FACHADA SEMI-OCULTA)

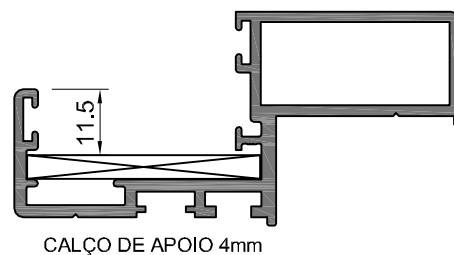


APLICAÇÃO DO BITE FC 12

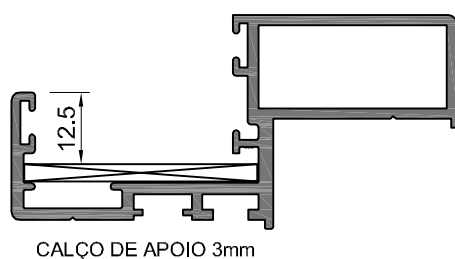
## DIMENSÃO DA GOLA ÚTIL PARA VIDRO CONFORME CALÇO DE APOIO UTILIZADO



CALÇO DE APOIO 5mm



CALÇO DE APOIO 4mm



CALÇO DE APOIO 3mm

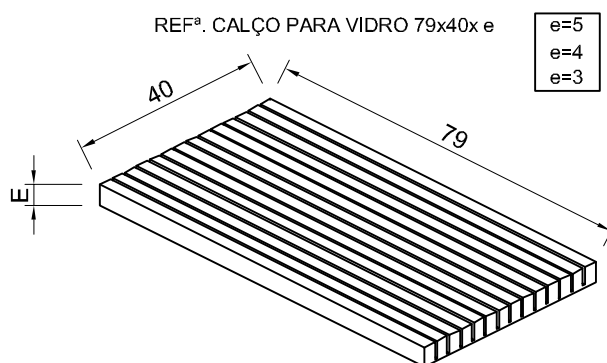
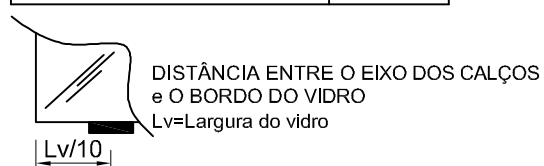
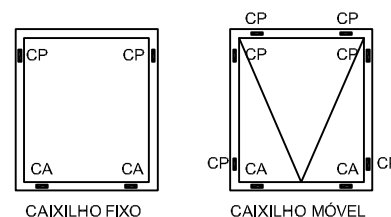


TABELA PARA DEFINIÇÃO  
DA APLICAÇÃO DO CALÇO DE APOIO

PERIMETRO DO VIDRO/2=P (m)	e
$P \leq 2.5$ m	3
$2.5 < P \leq 5$ m	4
$5 < P \leq 7$ m	5



DISTÂNCIA ENTRE O EIXO DOS CALÇOS  
e O BORDO DO VIDRO  
 $L_v$ =Largura do vidro

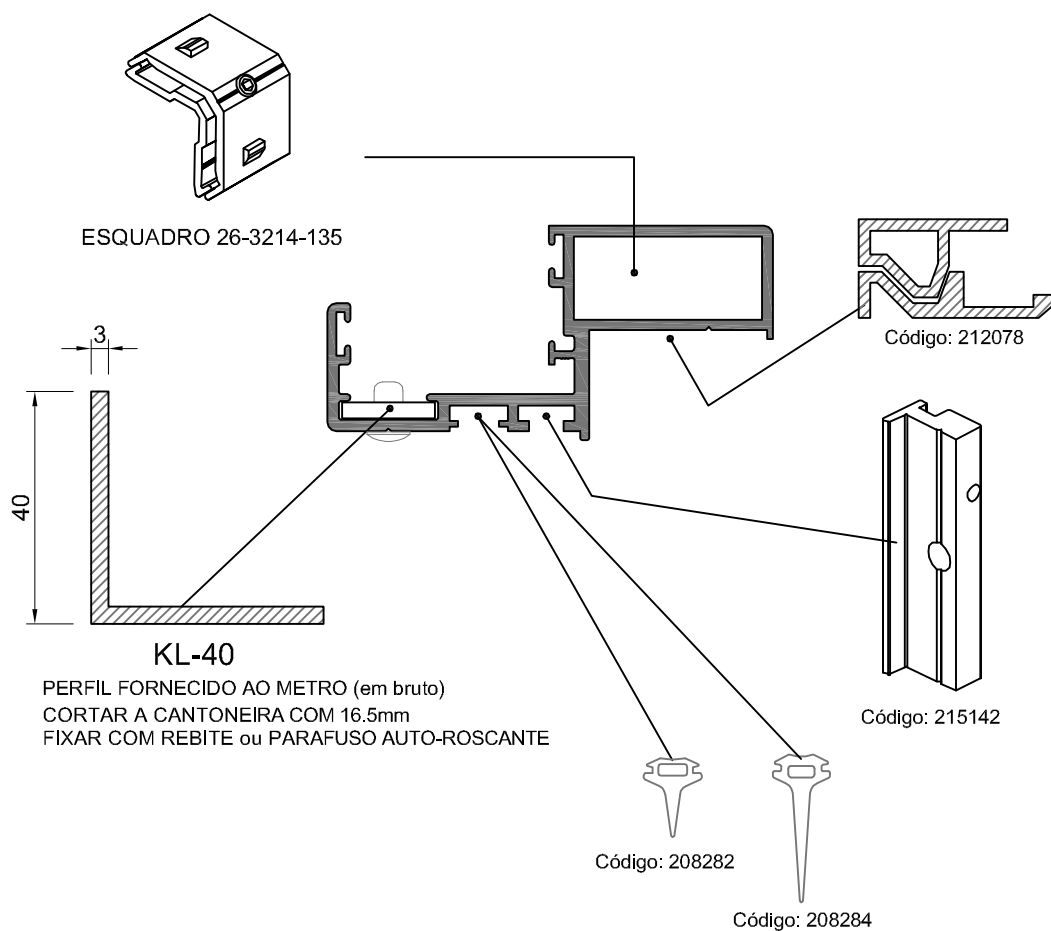


CAIXILHO FIXO

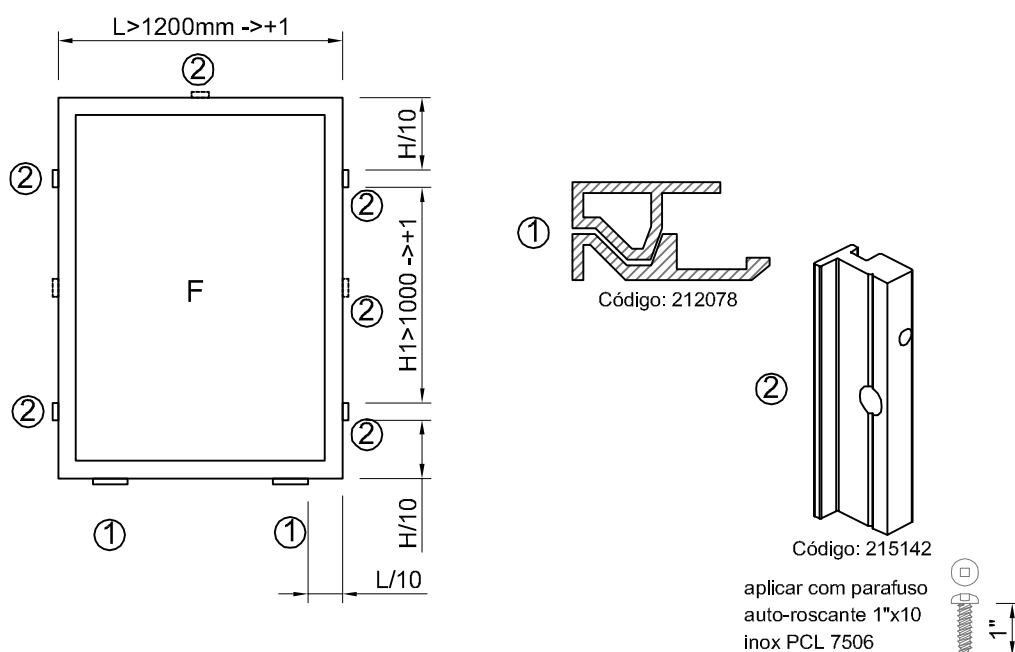
CAIXILHO MÓVEL

CA= CALÇO DE APOIO  
CP= CALÇO PERIFÉRICO

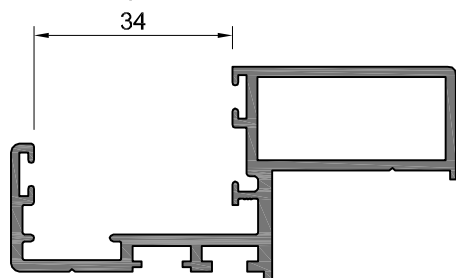
FC 45 (FACHADA SEMI-OCULTA)



CAIXILHO FIXO



## FC 45 (FACHADA SEMI-OCULTA)



208191  
JUNTA DE CUNHA 2042



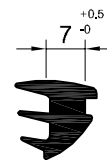
208199  
JUNTA DE CUNHA 2073



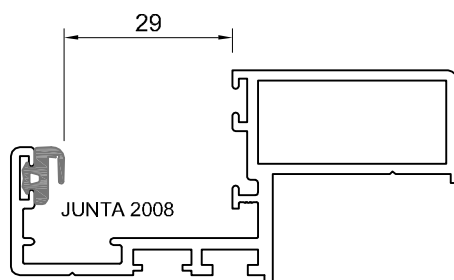
208195  
JUNTA DE CUNHA 2034



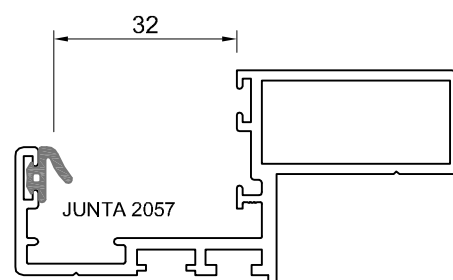
208196  
JUNTA DE CUNHA 2035



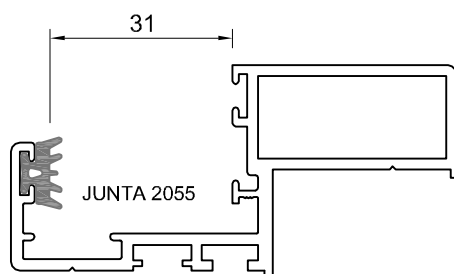
208904  
JUNTA DE CUNHA 2037



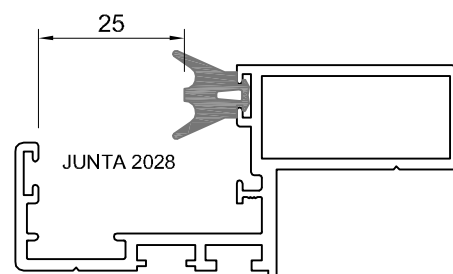
JUNTA 2008



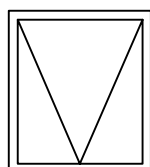
JUNTA 2057



JUNTA 2055

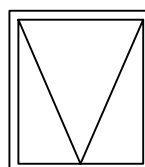


JUNTA 2028



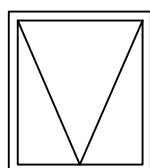
CAIXILHO MÓVEL

Para vãos até 75Kg:  
Conjunto braço projectante S550  
Ângulo de abertura máximo: 90°  
Ângulo máxima: 1350mm  
Altura mínima: 650mm  
Largura máxima: 1500mm



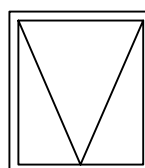
CAIXILHO MÓVEL

Para vãos até 120Kg:  
Conjunto braço projectante ST26 + Kit ajustável S7280  
Ângulo de abertura: 15°  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm



CAIXILHO MÓVEL

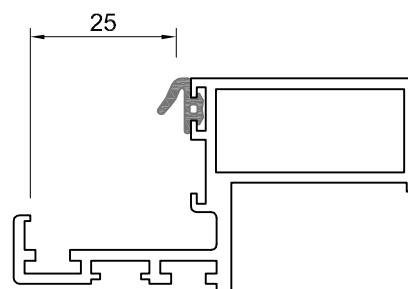
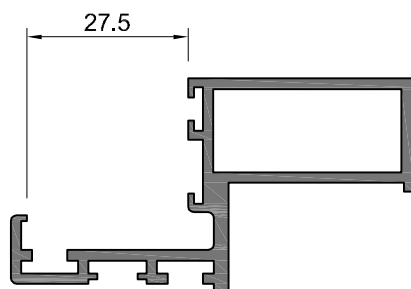
Para vãos até 100Kg:  
Conjunto braço projectante ST26  
Ângulo de abertura: 20°  
Ângulo máxima: 2000mm  
Altura mínima: 750mm  
Largura máxima: 2200mm



CAIXILHO MÓVEL

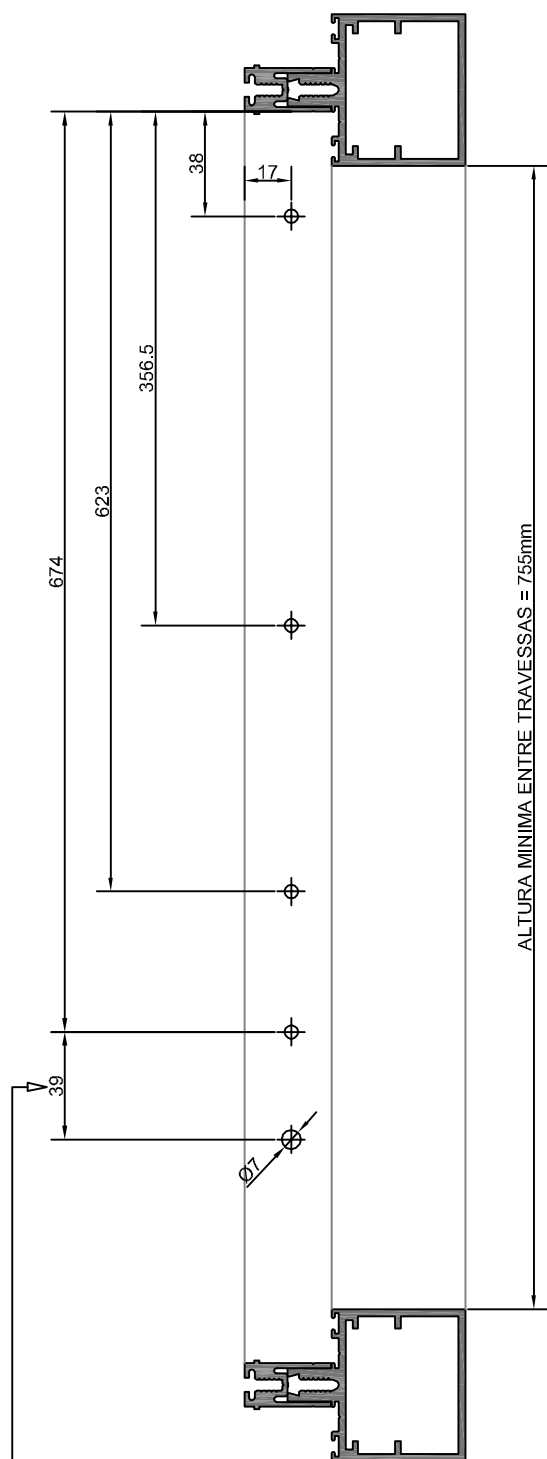
Para vãos até 150Kg:  
Conjunto braço projectante 150Kg  
Ângulo de abertura: 20°  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm

## FC 15 (FACHADA SEMI-OCULTA)



## FURAÇÃO PARA APLICAÇÃO DO COMPASSO ST26

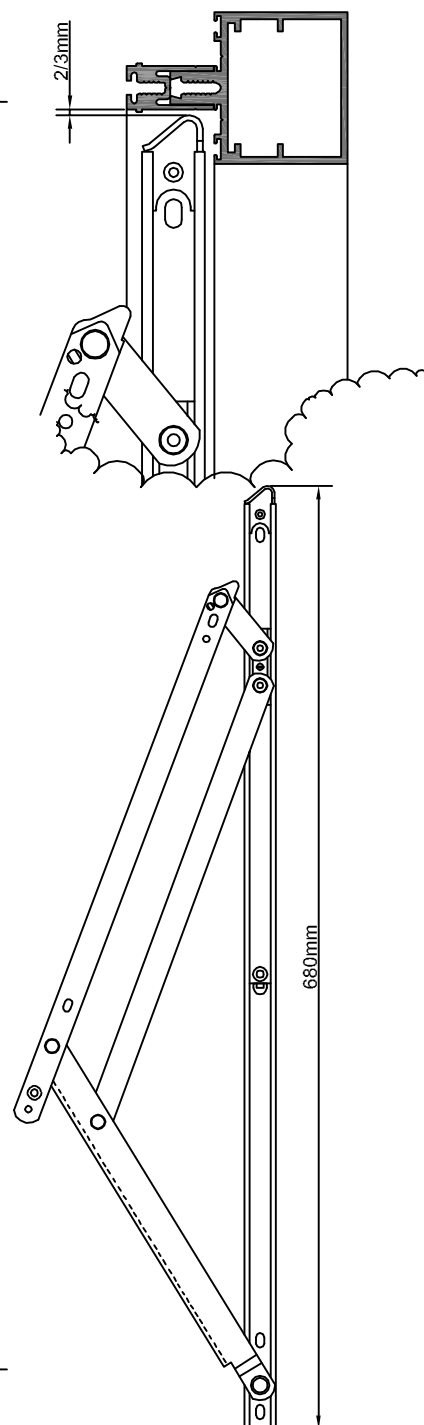
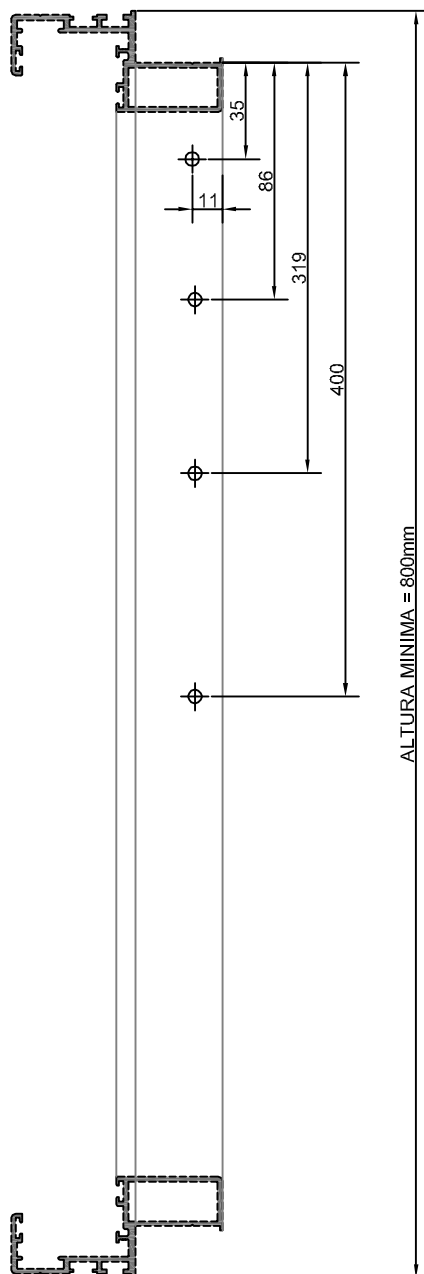
Aplicar o compasso distante de 2/3mm do top  
(para permitir uma afinação vertical de  $\pm 2\text{mm}$ )



Distância para aplicação do Kit ajustável S7280  
(120Kg < peso caixilho > 100Kg)

### Para vãos até 100Kg:

Ângulo de abertura: 20°  
Altura máxima: 2000mm  
Altura mínima: 750mm  
Largura máxima: 2200mm



Conjunto braço projectante ST26

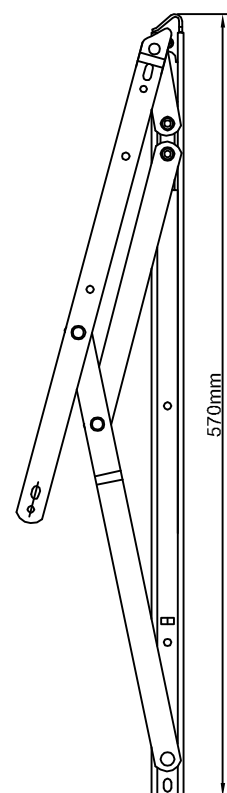
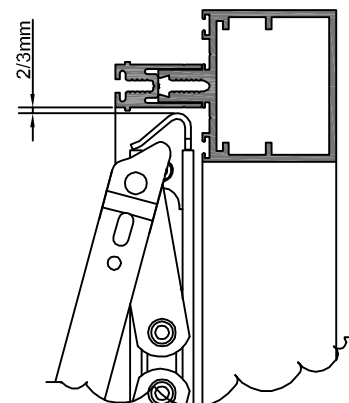
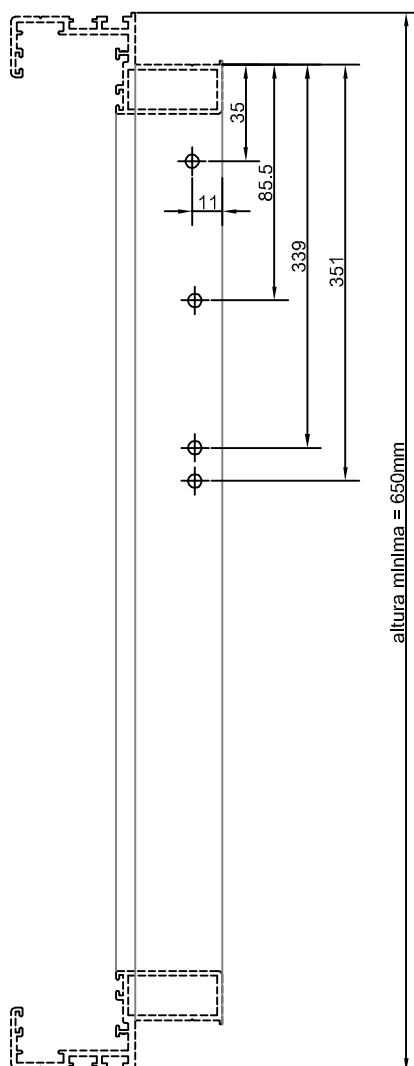
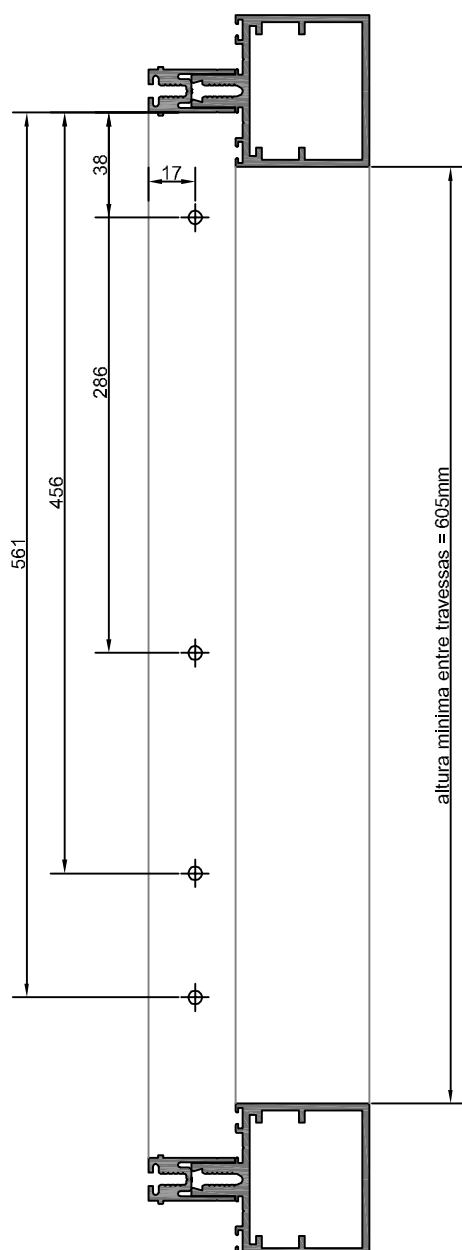
### Para vãos até 120Kg:

Ângulo de abertura: 15°  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm



## FURAÇÃO PARA APLICAÇÃO DO COMPASSO S550

aplicar o compasso distante de 2/3mm do top  
(para permitir uma afinação vertical de  $\pm 2\text{mm}$ )



Conjunto braço projectante S550

### Para vãos até 75Kg:

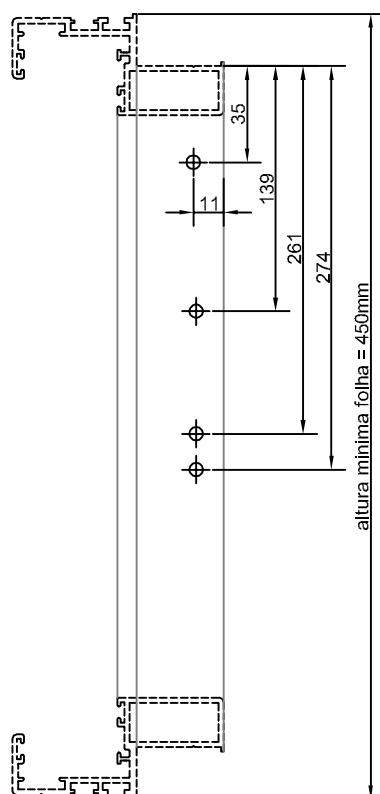
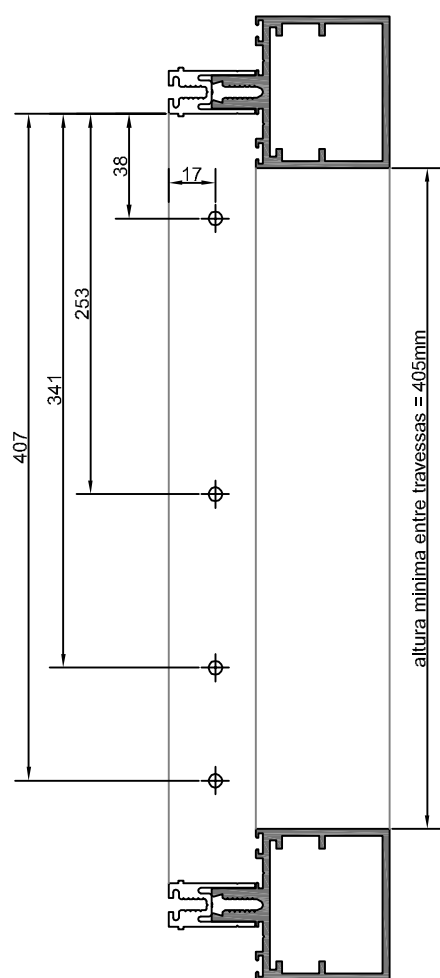
Ângulo de abertura máximo: 90°

Altura máxima: 1350mm

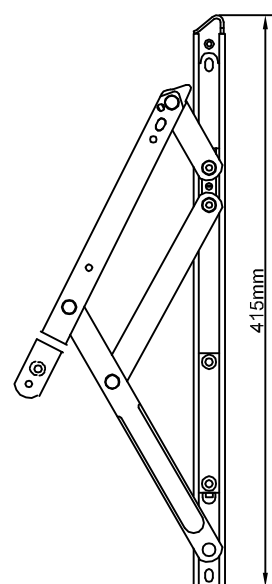
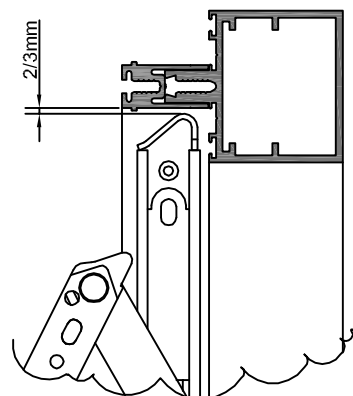
Altura mínima: 650mm

Largura máxima: 1500mm

## FURAÇÃO PARA APLICAÇÃO DO COMPASSO PROJECTANTE S400



aplicar o compasso distante de 2/3mm do top  
(para permitir uma afinação vertical de  $\pm 2\text{mm}$ )



### Para vãos até 55Kg:

Braço com afinação de abertura por fricção

Ângulo de abertura máximo: 50°

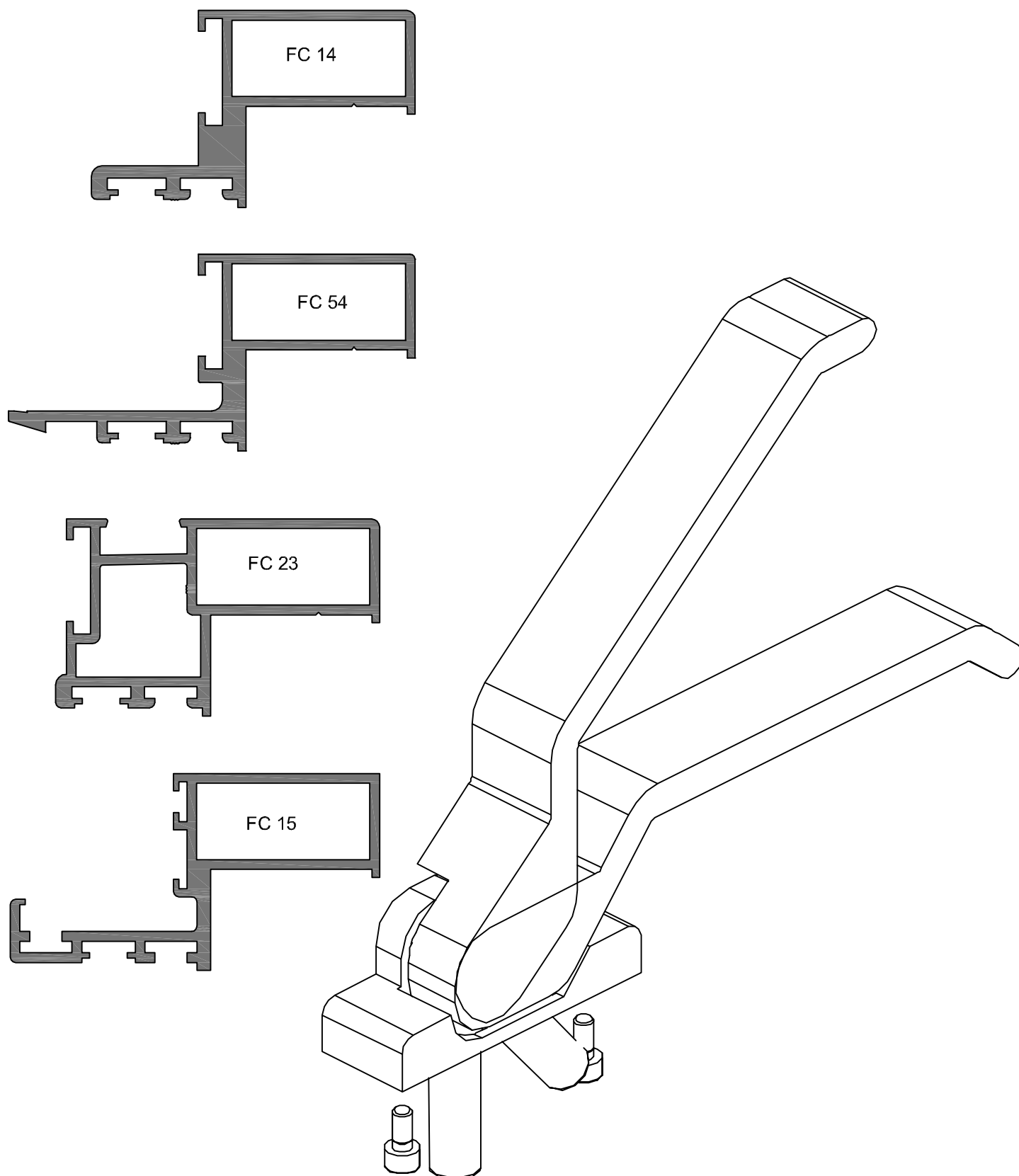
Altura máxima folha: 1090mm

Altura mínima folha: 450mm

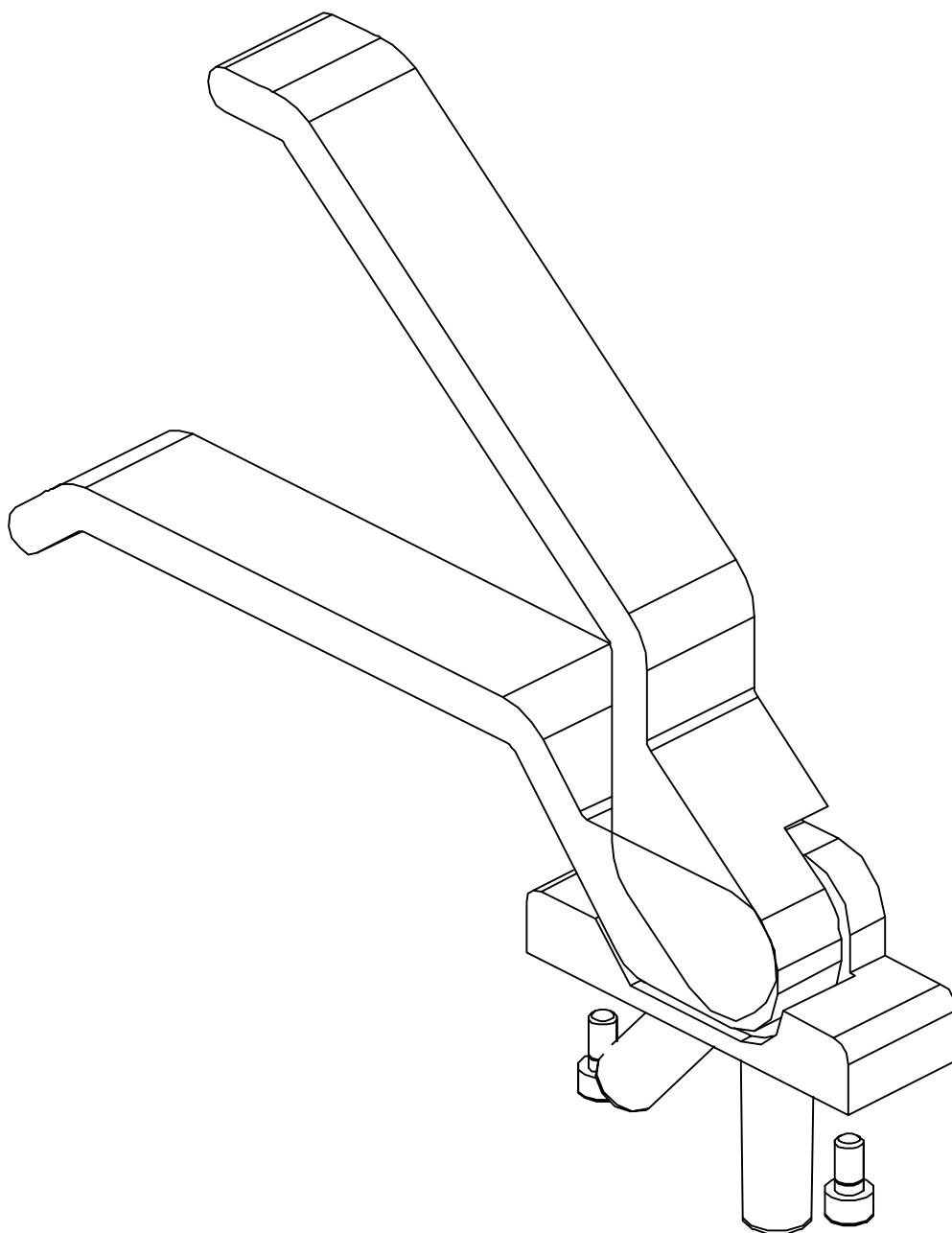
Largura máxima: 1500mm

FACHADAS SEMI-OCULTA / OCULTA / HORIZONTE  
MANÍPULOS PARA JANELAS PROJECTANTES

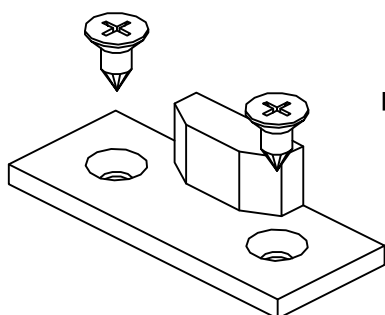
PARA OS SEGUINTE PERFIS:



REF.<sup>a</sup>: MANÍPULO ARTICULADO i33 DIREITO Preto



REF.<sup>a</sup>: MANÍPULO ARTICULADO i33 ESQUERDO Preto

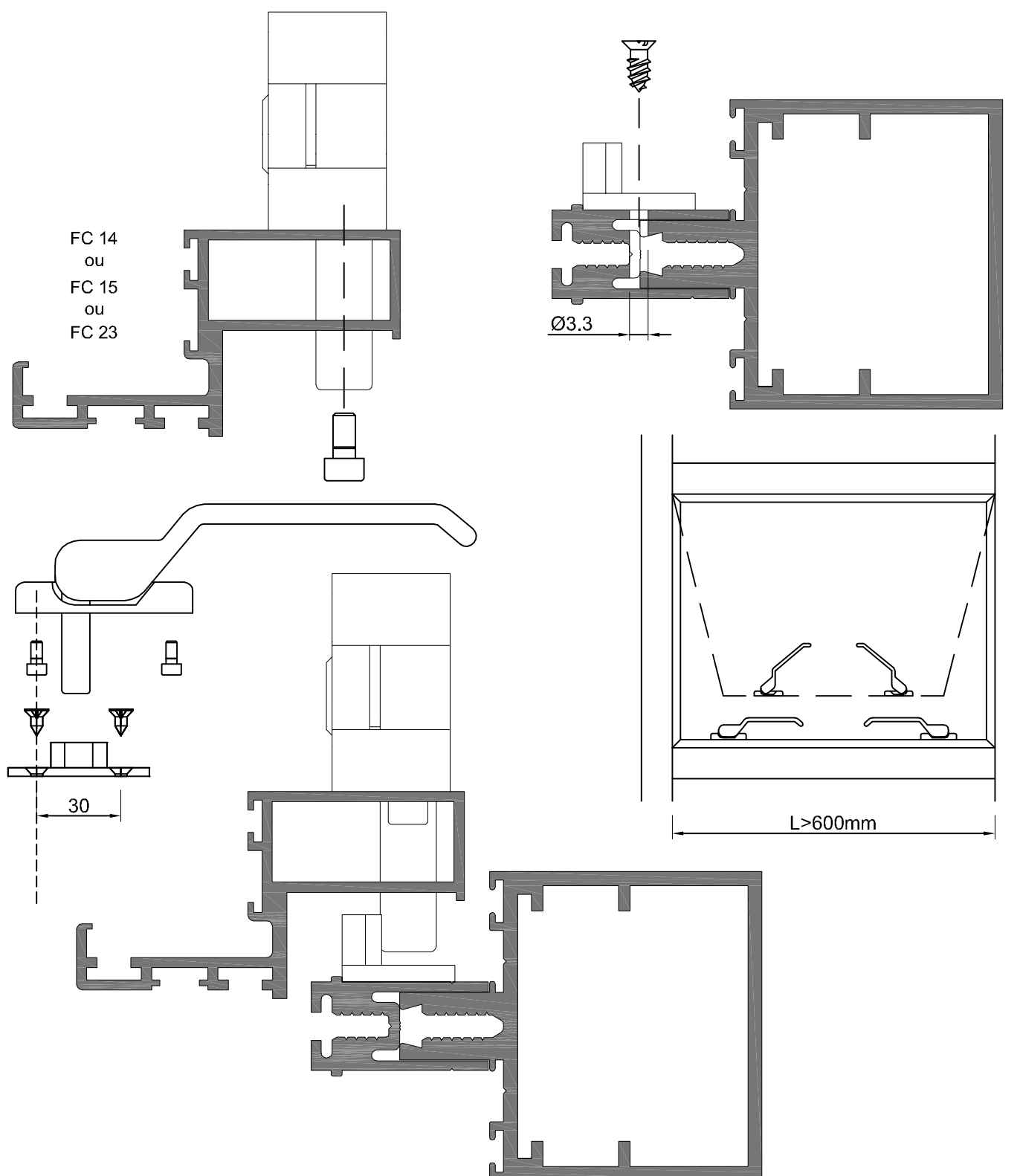


REF.<sup>a</sup>: CONTRA-FECHO 5708 Acetinado Natural

APLICAR EM PROJECTANTE COM L<600mm  
-1 MANÍPULO ARTICULADO i33 ESQUERDO  
-1 CONTRA-FECHOS 5708

APLICAR EM PROJECTANTE COM L>600mm  
-1 MANÍPULO ARTICULADO i33 ESQUERDO  
-1 MANÍPULO ARTICULADO i33 DIREITO  
-2 CONTRA-FECHOS 5708

## MONTAGEM EM FACHADA SEMI-OCULTA ou OCULTA



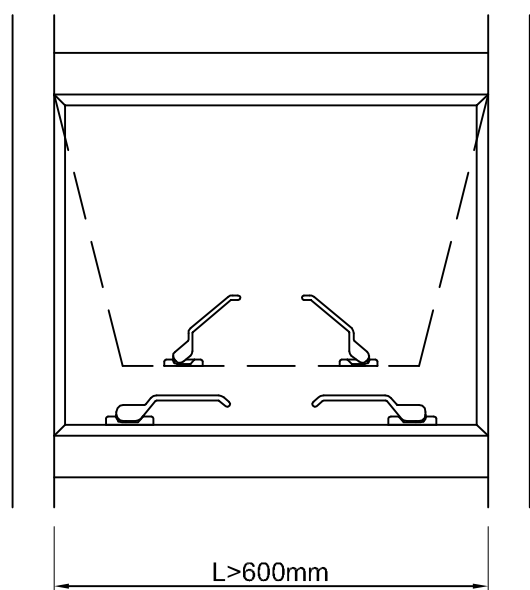
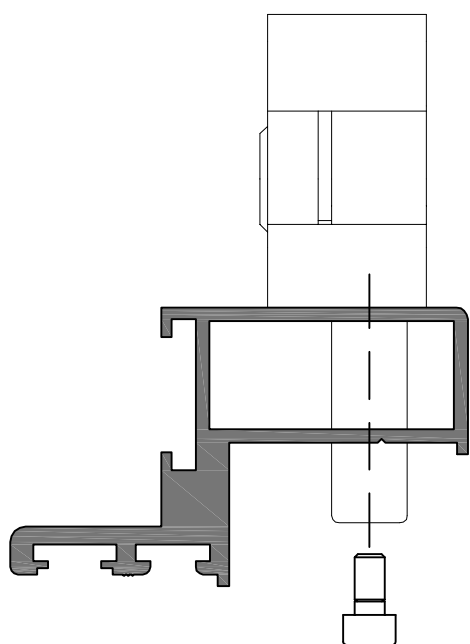
APLICAR EM PROJECTANTE COM L &lt; 600mm

- 1 MANÍPULO ARTICULADO i33 ESQUERDO
- 1 CONTRA-FECHOS 5708

APLICAR EM PROJECTANTE COM L &gt; 600mm

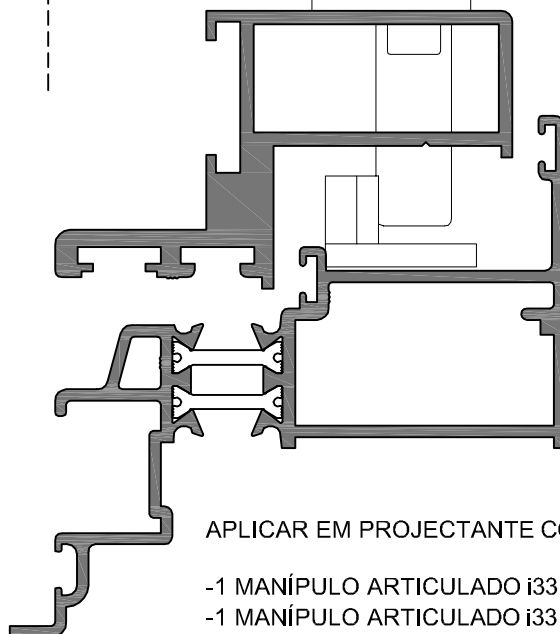
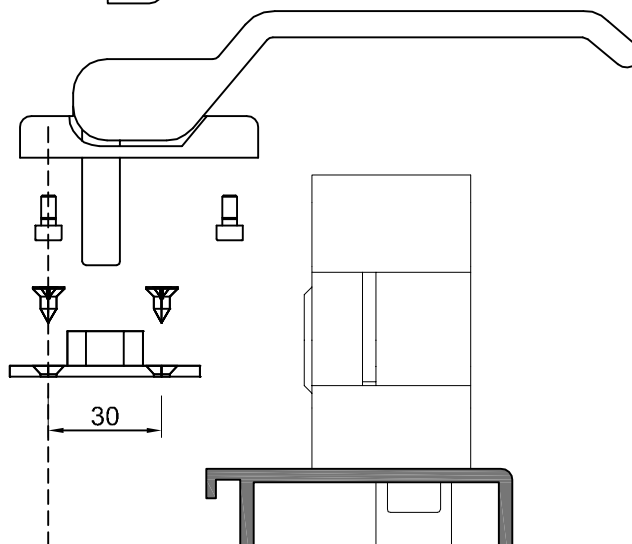
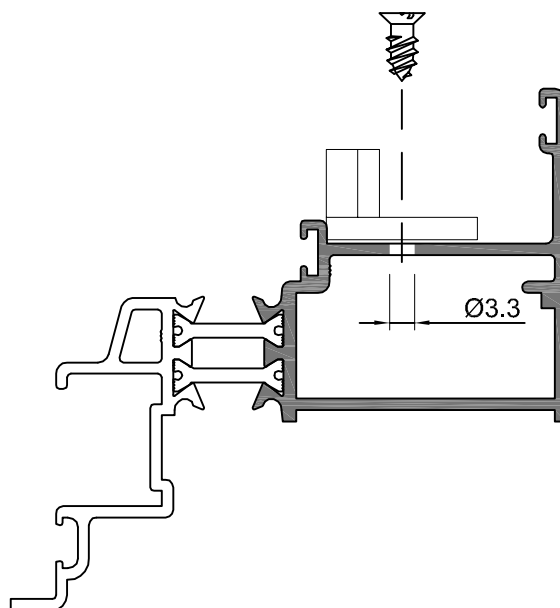
- 1 MANÍPULO ARTICULADO i33 ESQUERDO
- 1 MANÍPULO ARTICULADO i33 DIREITO
- 2 CONTRA-FECHOS 5708

MONTAGEM HORIZONTE



APLICAR EM PROJECTANTE COM  $L < 600\text{mm}$

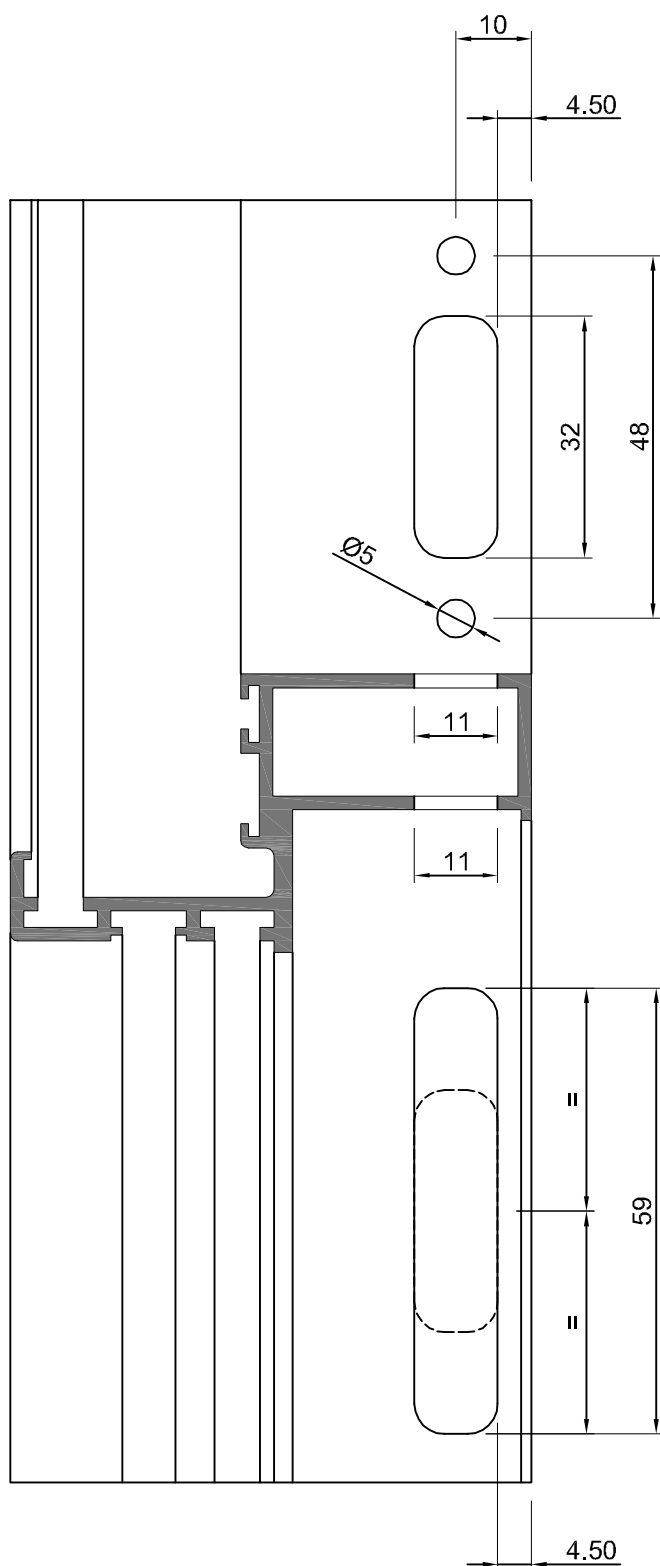
- 1 MANÍPULO ARTICULADO i33 ESQUERDO
- 1 CONTRA-FECHOS 5708



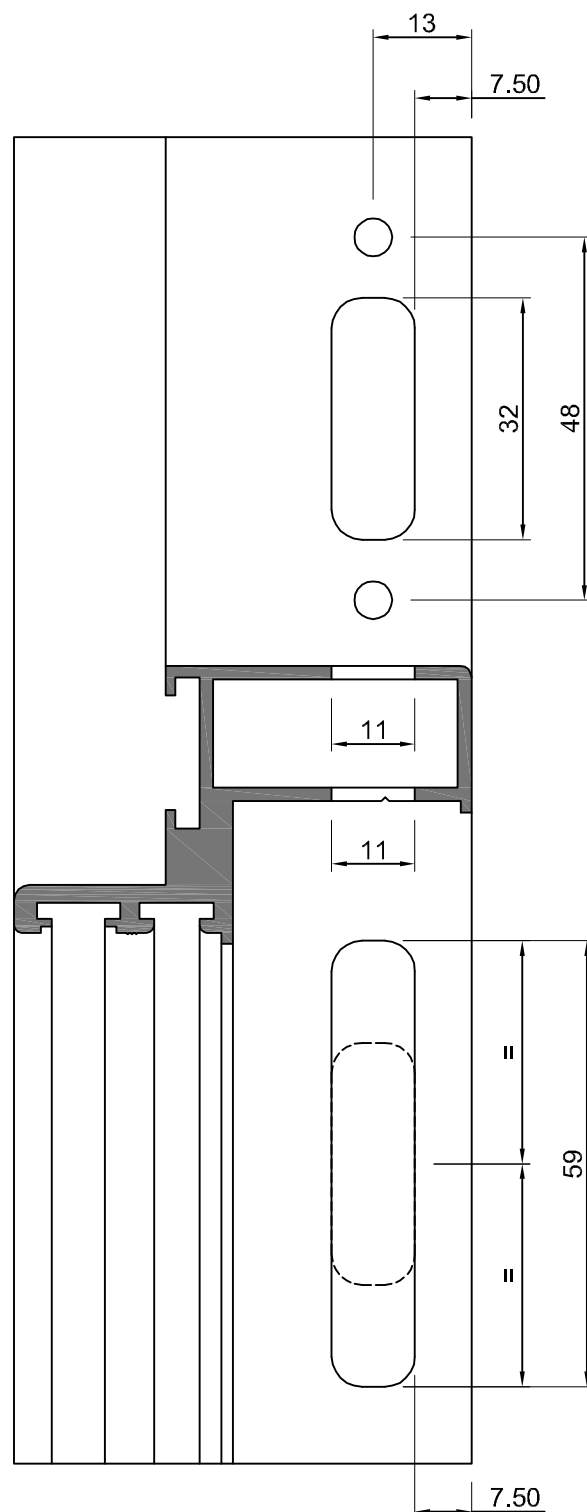
APLICAR EM PROJECTANTE COM  $L > 600\text{mm}$

- 1 MANÍPULO ARTICULADO i33 ESQUERDO
- 1 MANÍPULO ARTICULADO i33 DIREITO
- 2 CONTRA-FECHOS 5708

## MECANIZAÇÃO

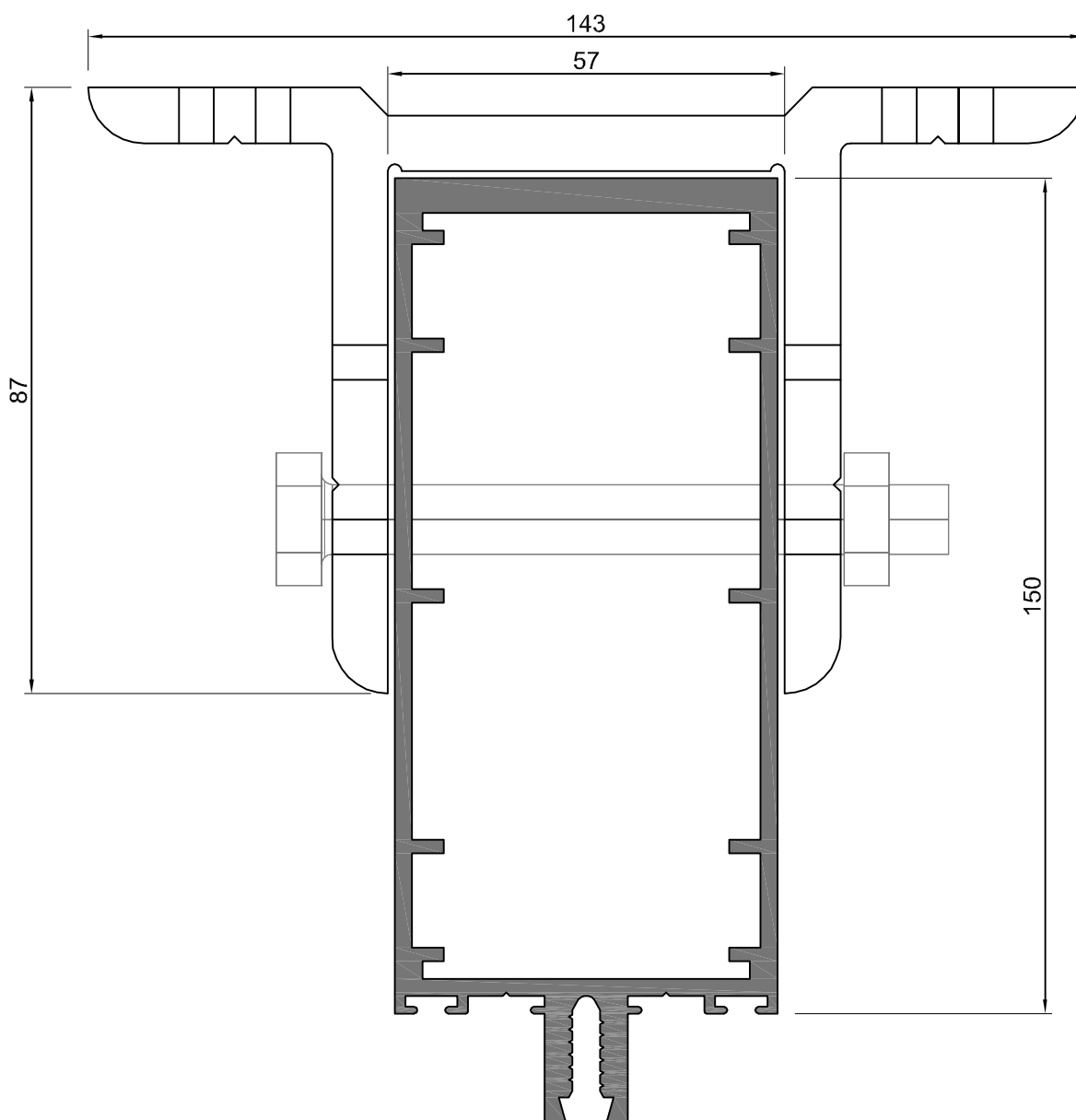
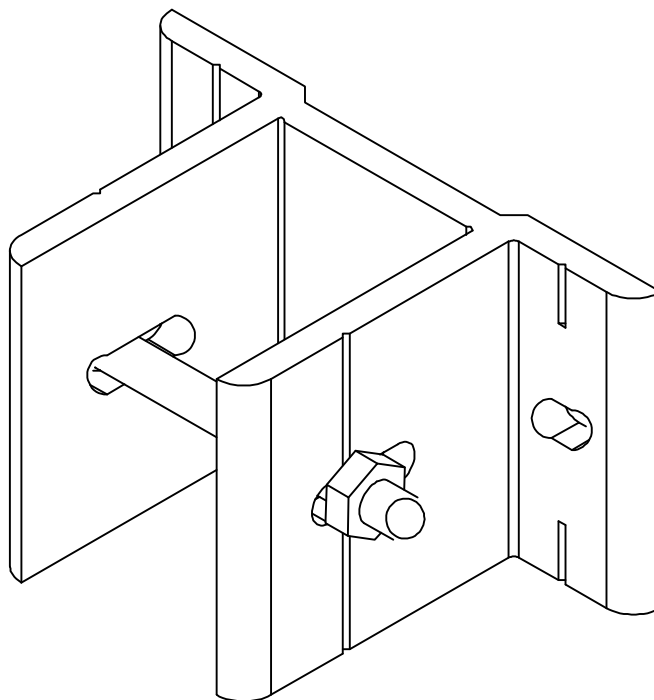


EXECUTAR EM FC SEMI-OCULTA  
ou FC OCULTA



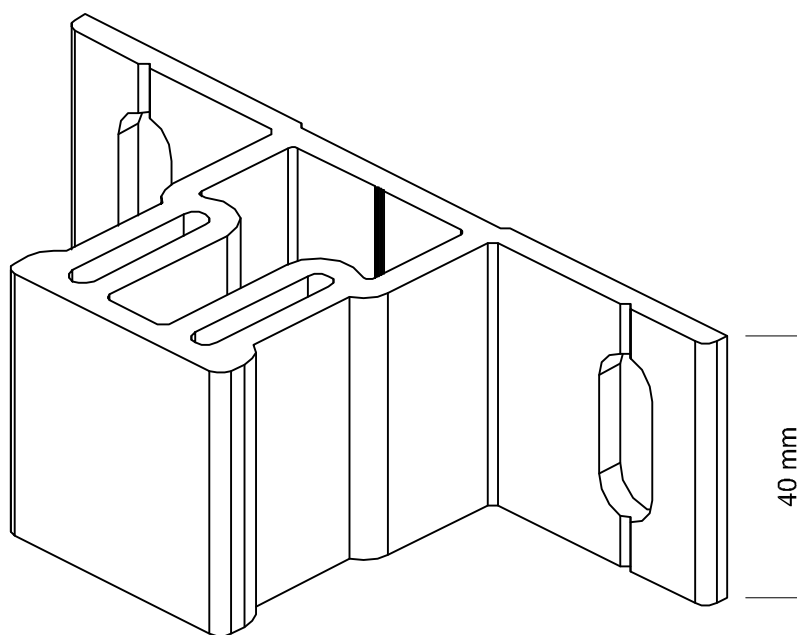
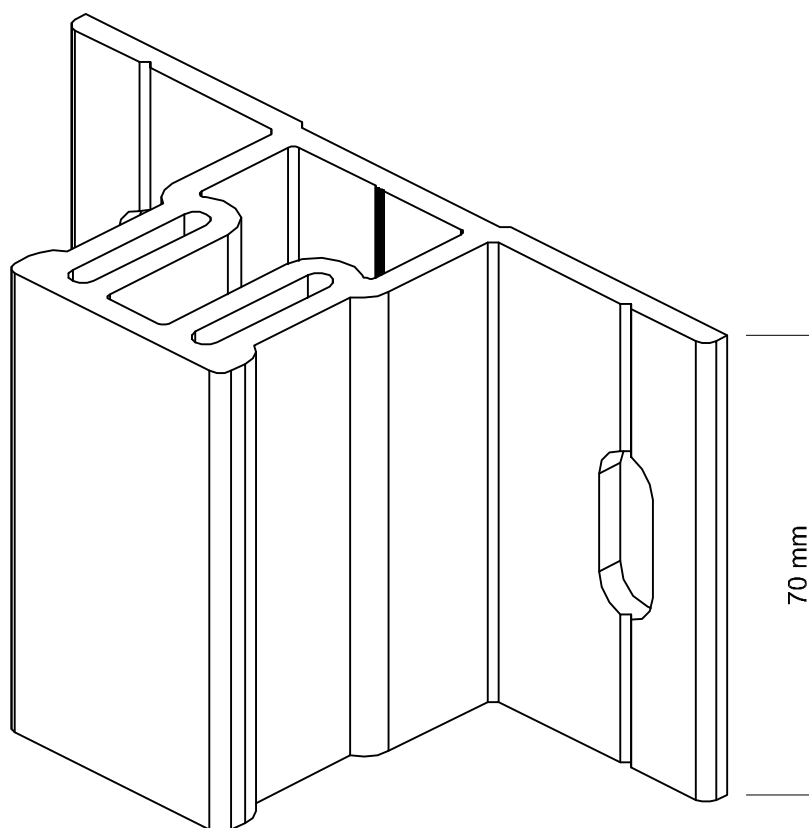
EXECUTAR EM FC HORIZONTE

NOVOS FIXADORES PARA MONTANTES FC 01, FC 02 e FC 24

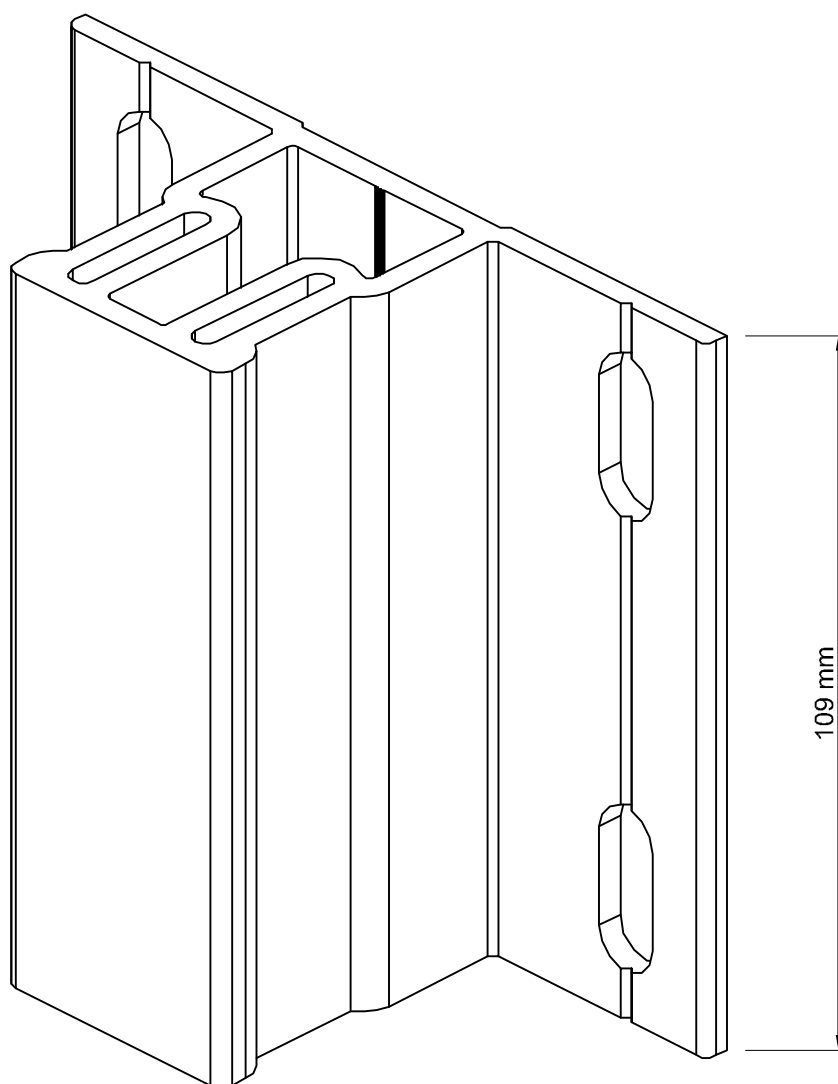




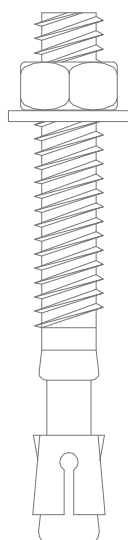
## FIXADORES PARA MONTANTES FC 01, FC 02 e FC 24

REF.<sup>a</sup>: FIXADOR MONTANTE FM2811 Bruto (para o perfil FC 02)REF.<sup>a</sup>: FIXADOR MONTANTE FM2812 Bruto (para o perfil FC 01)

FIXADORES PARA MONTANTES FC 01, FC 02 e FC 24



REF.<sup>a</sup>: FIXADOR MONTANTE FM2813 Bruto (para o perfil FC 24)



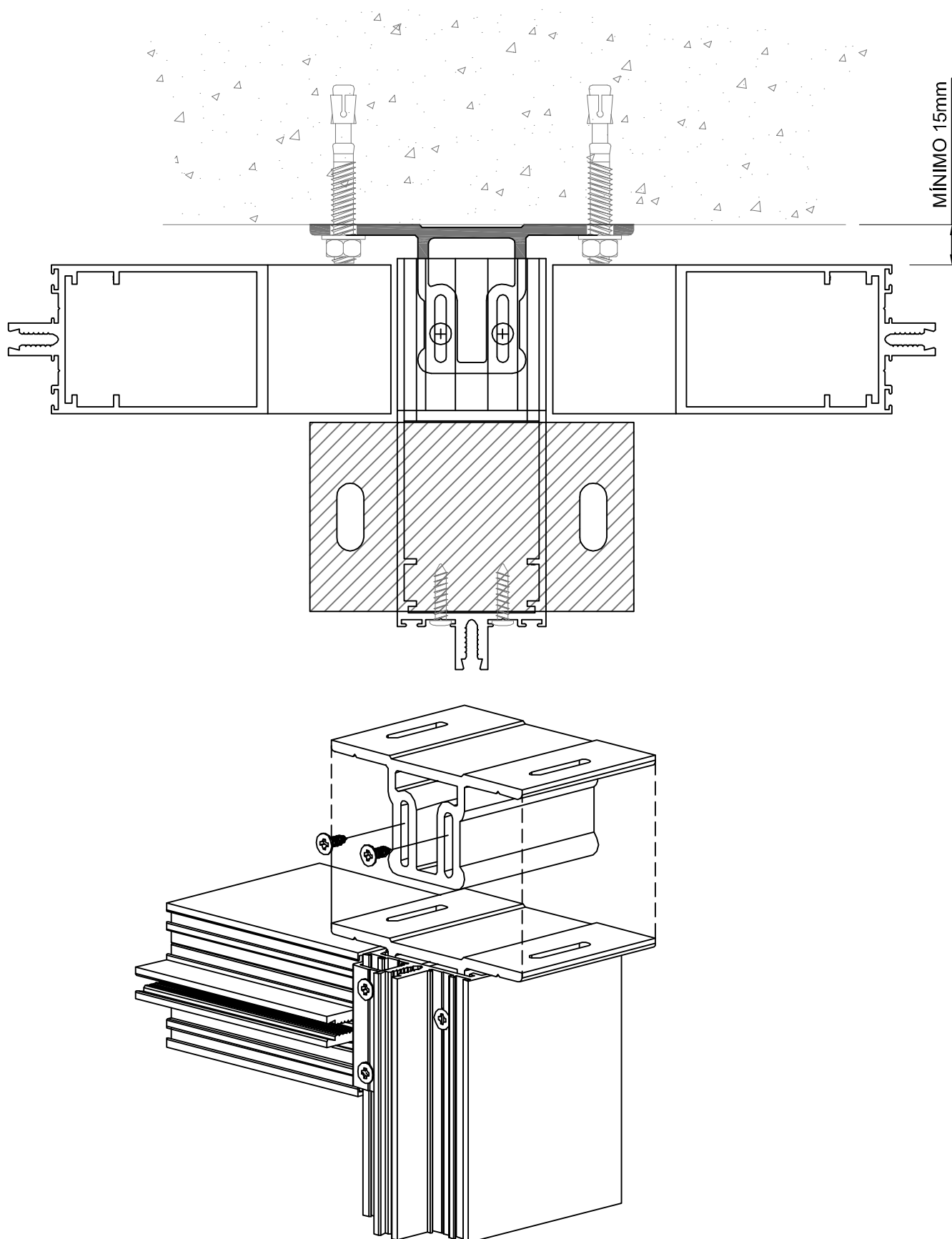
REF.<sup>a</sup>: BUCHA SEGM. M8x75 PAR 101

para fixador 2811 → 2 BUCHAS

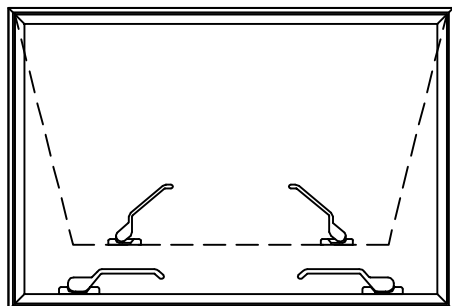
para fixador 2812 → 2 BUCHAS

para fixador 2813 → 4 BUCHAS

TOPO FC UNIVERSAL: Aplicação com o perfil FC 24



## JANELA PROJECTANTE COM OS PERFIS FC 65 e FC 66



CONJ. FIXAÇÃO INF. 2823

CANTO CR S/SB

MANÍPULO ARTICULADO DIR.  
MANÍPULO ARTICULADO ESQ.

2051

CONTRA FECHO

CANTO CR S/SB

H-52mm

H

L

L-52mm

26-3214-135

CONJ. BRAÇO PROJ. 150Kg

2051

2055

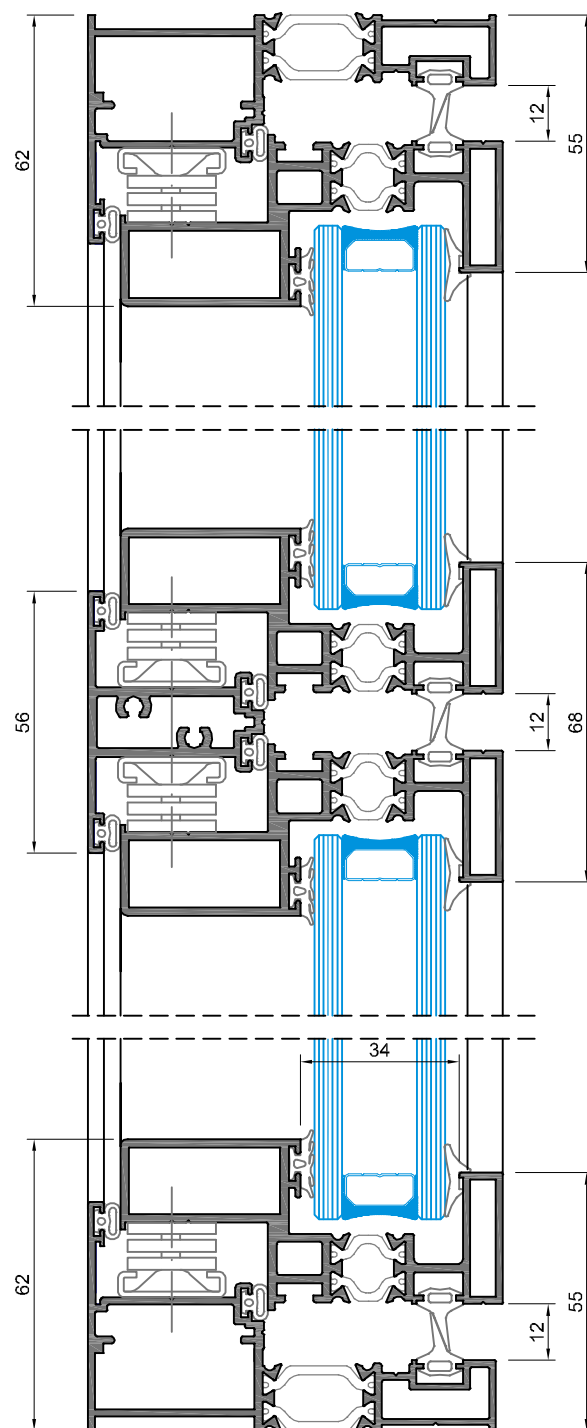
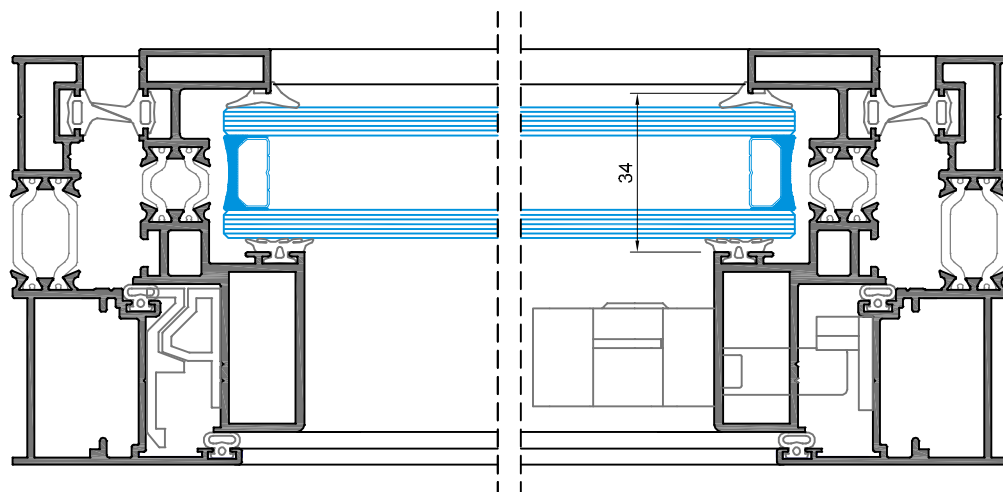
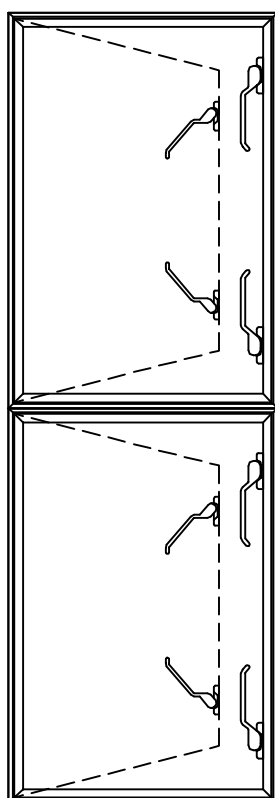
28

34

2011  
2011

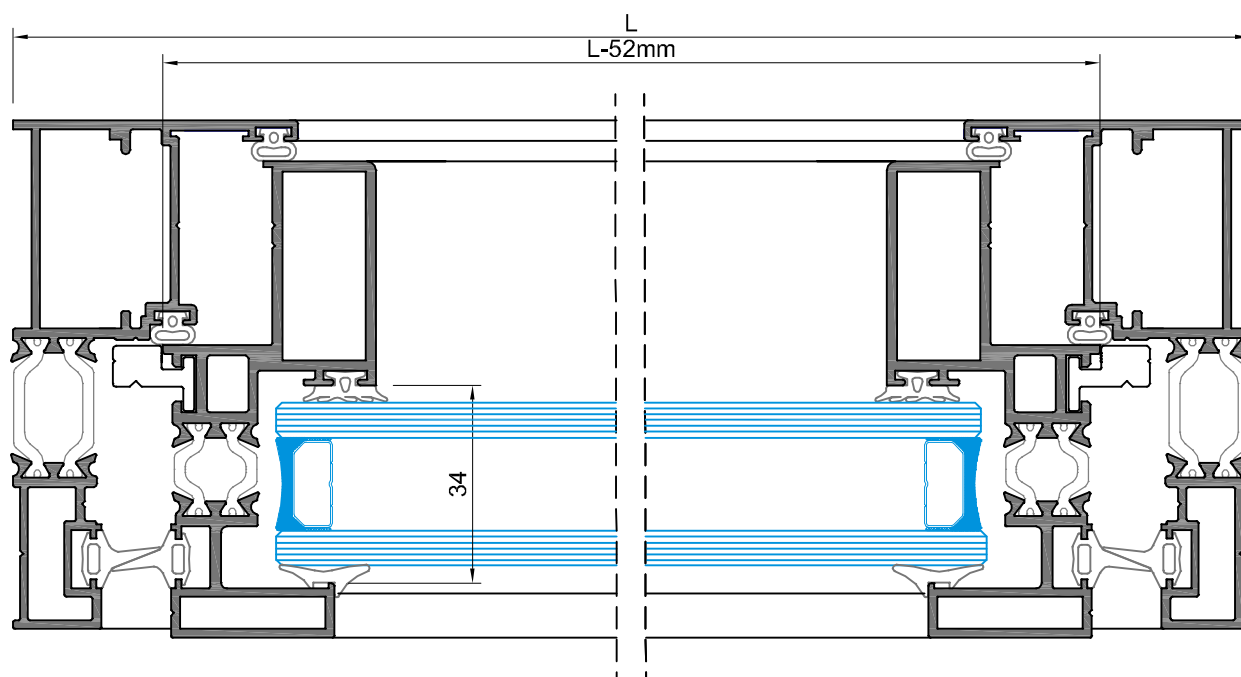
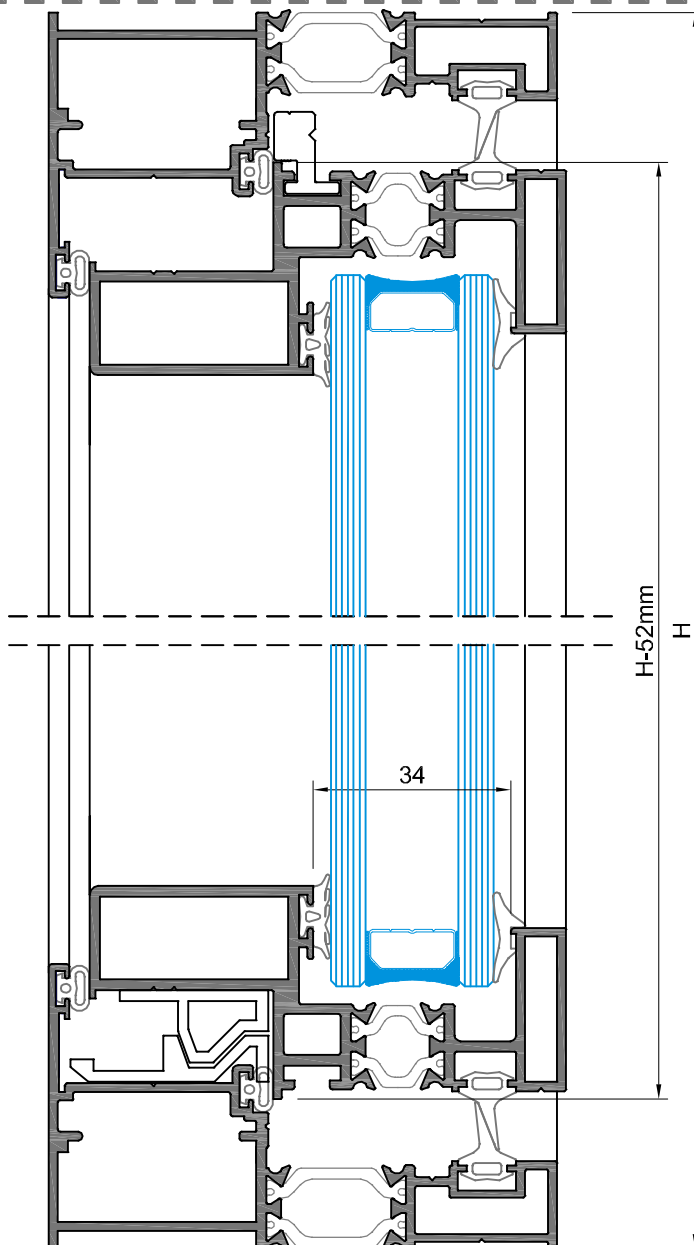
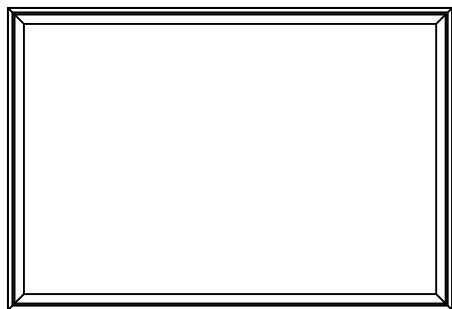
2042  
CANTO CR 0182 + PINO 0092

JANELAS PROJECTANTES  
COM OS PERFIS FC 65, FC 66 e FC 69



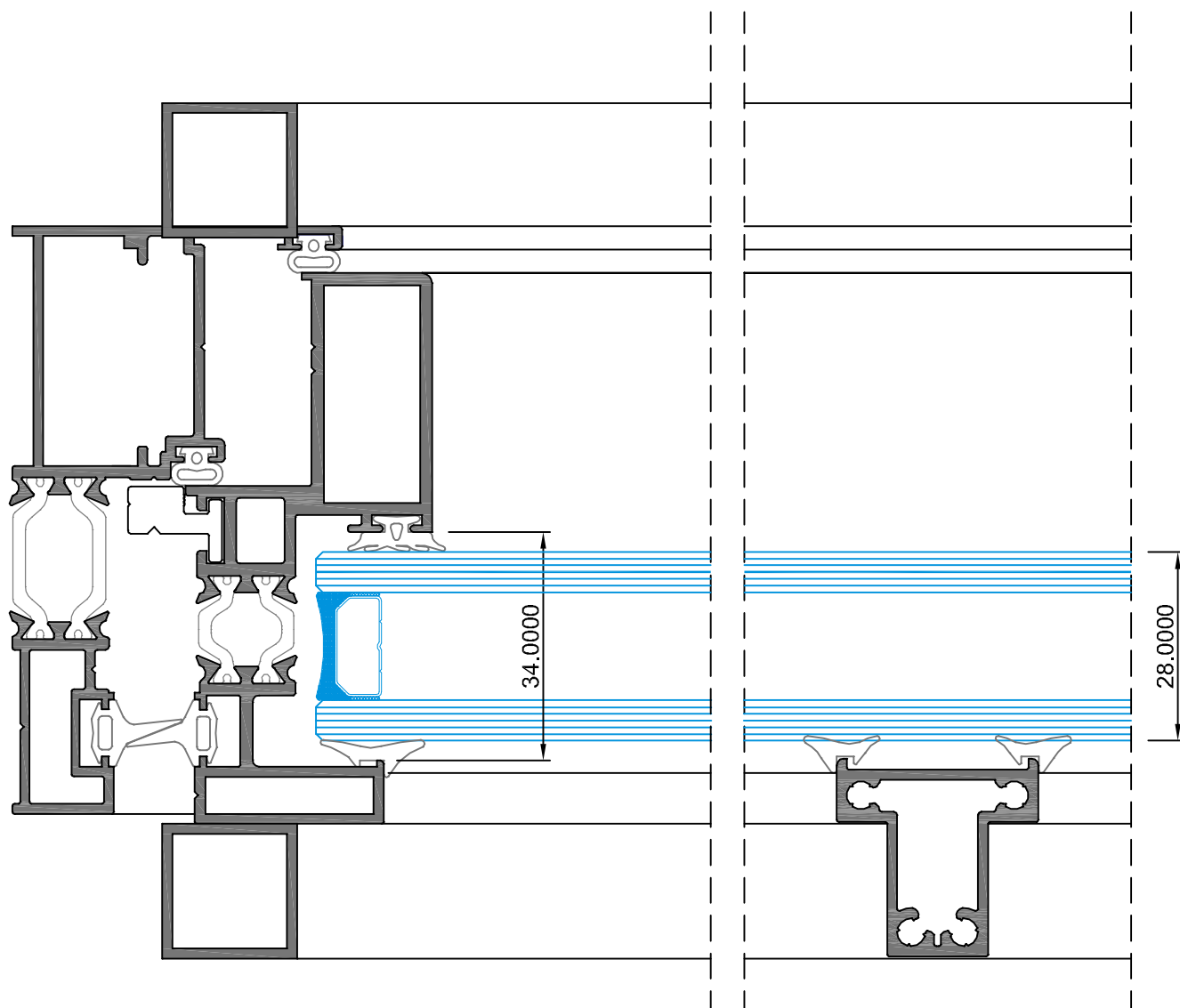
VÃO FIXO

COM OS PERFIS FC 65 e FC 66

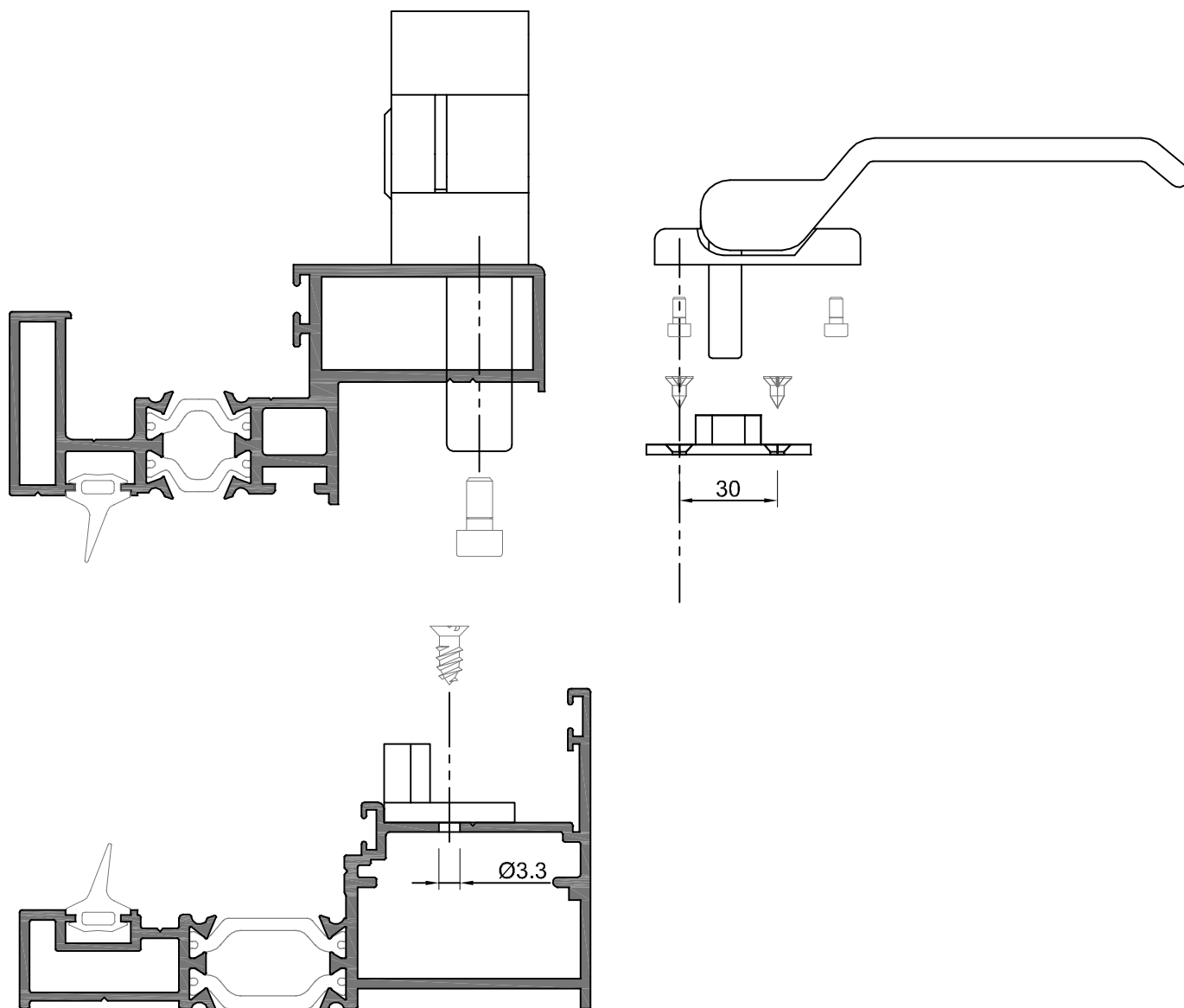
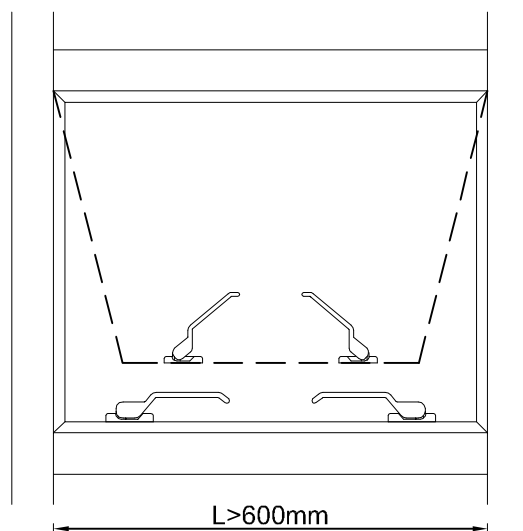


**VÃO FIXO**

COM OS PERFIS FC 65, FC 66 e FC 68

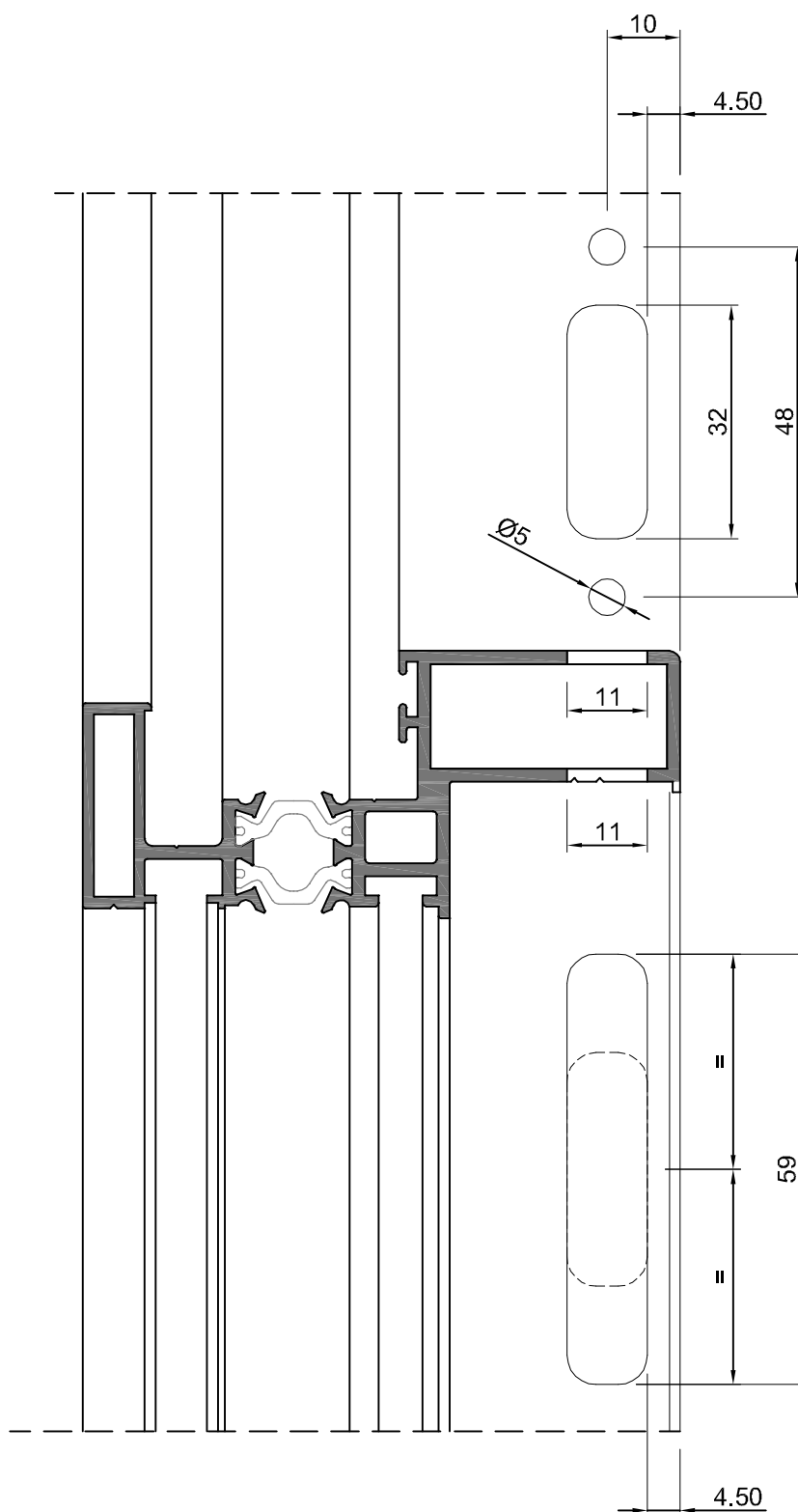


MANÍPULOS PARA JANELAS PROJECTANTES

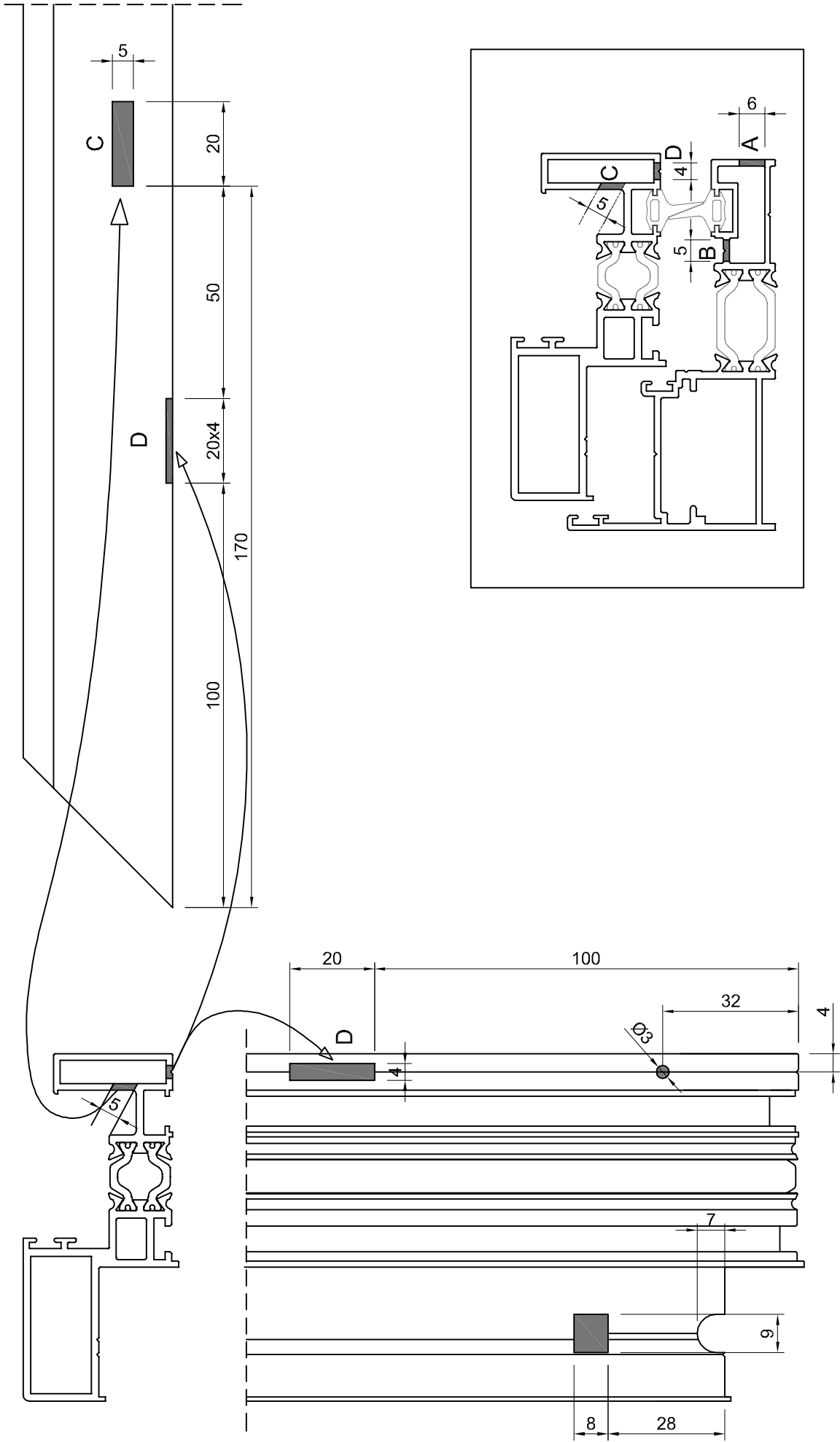




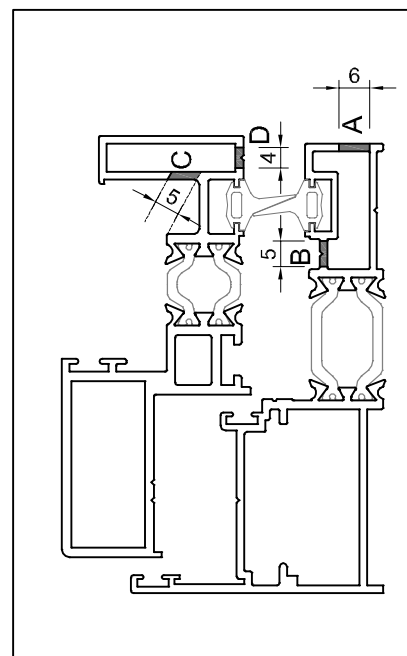
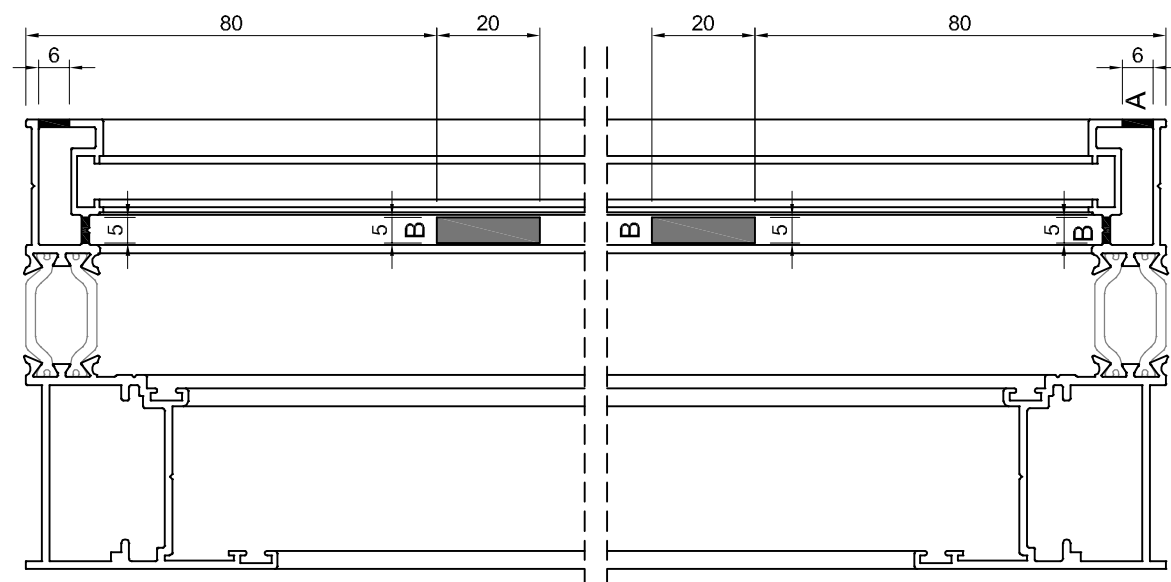
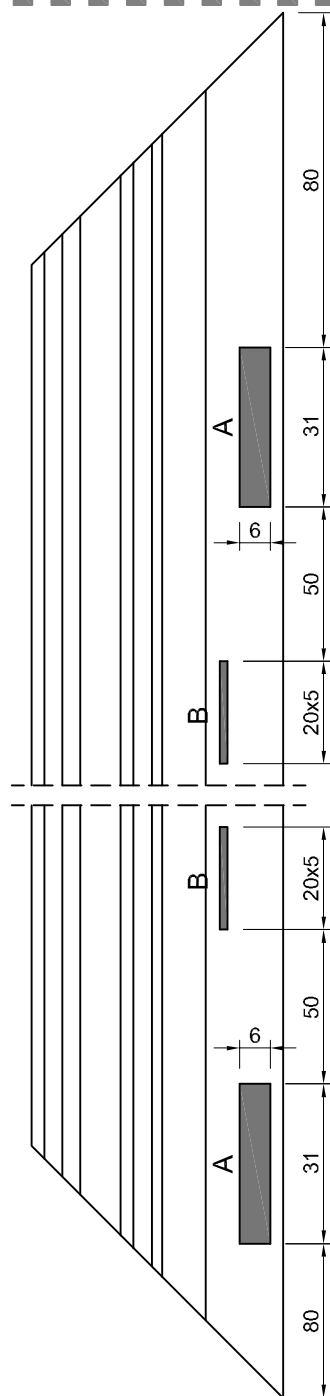
## MECANIZAÇÃO



EXECUTAR EM FC 66

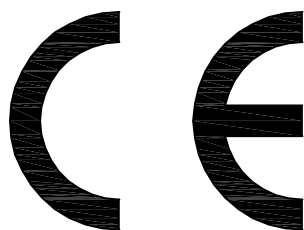


RASGOS PARA DRENAGENS DE ÁGUA/VENTILAÇÃO



Capítulo dedicado a:

# MARCAÇÃO

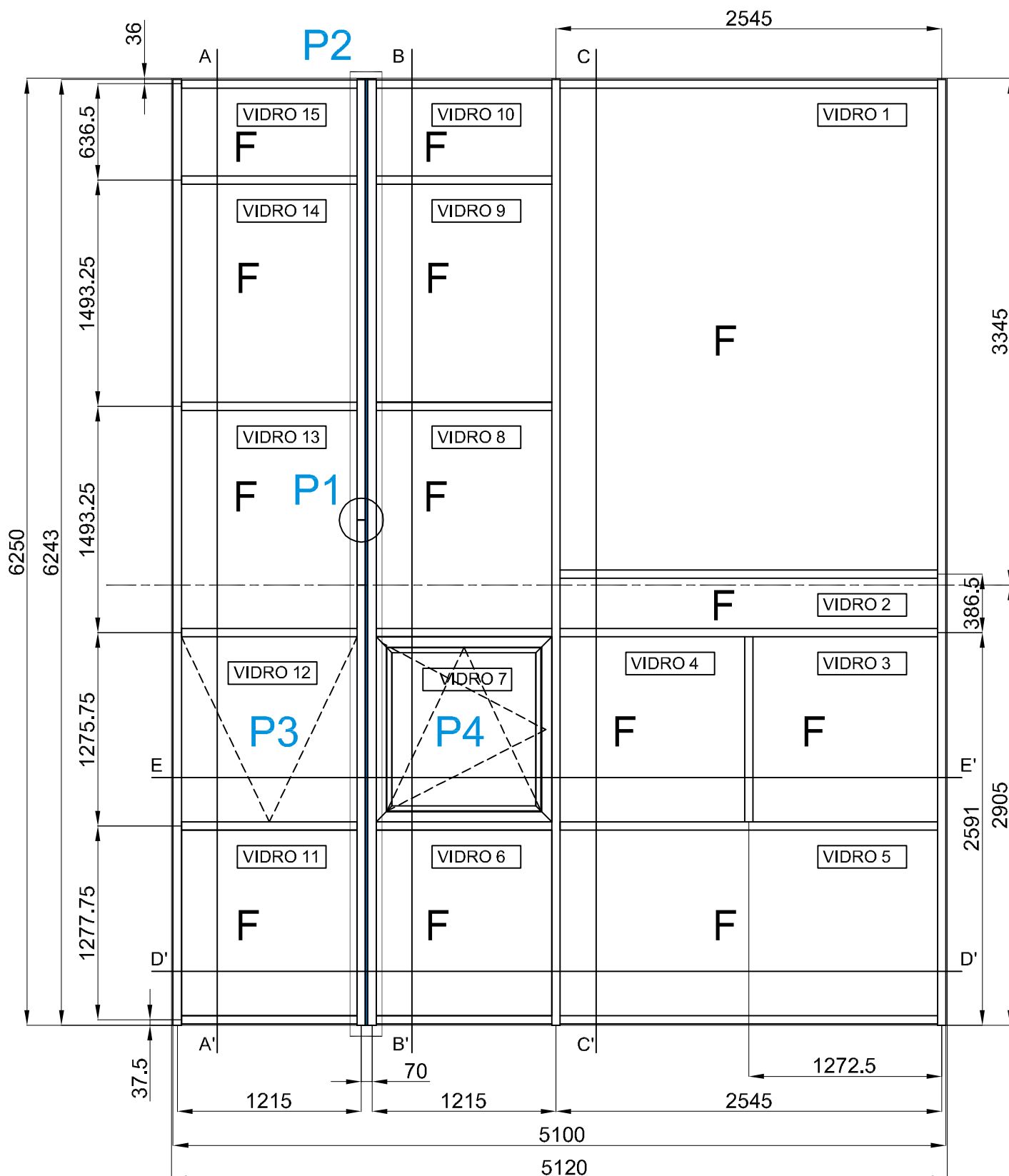


## MANUAL DE FABRICO E MONTAGEM :

1. CORTE DOS PERFIS
2. MECANIZAÇÃO DOS PERFIS
3. MONTAGEM DOS PERFIS
  - 3.1. Montagem dos esquadros
  - 3.2. Montagem do perfil inversor
  - 3.3. Colagem dos topos inversores
4. APLICAÇÃO DOS VEDANTES
5. MONTAGEM DAS FERRAGENS
6. VERIFICAÇÃO DE TODAS AS FOLGAS
7. AFINAÇÃO DAS FERRAGENS E ACESSÓRIOS
8. COLOCAÇÃO DOS VIDROS NO CAIXILHO
  - 8.1. POSICIONAMENTO DOS CALÇOS
  - 8.2. APLICAÇÃO DOS VEDANTES DOS VIDROS
9. FIXAÇÃO DOS CAIXILHOS EM OBRA

# ITT - FACHADA ESTRUTURAL VÃO ENSAIADO

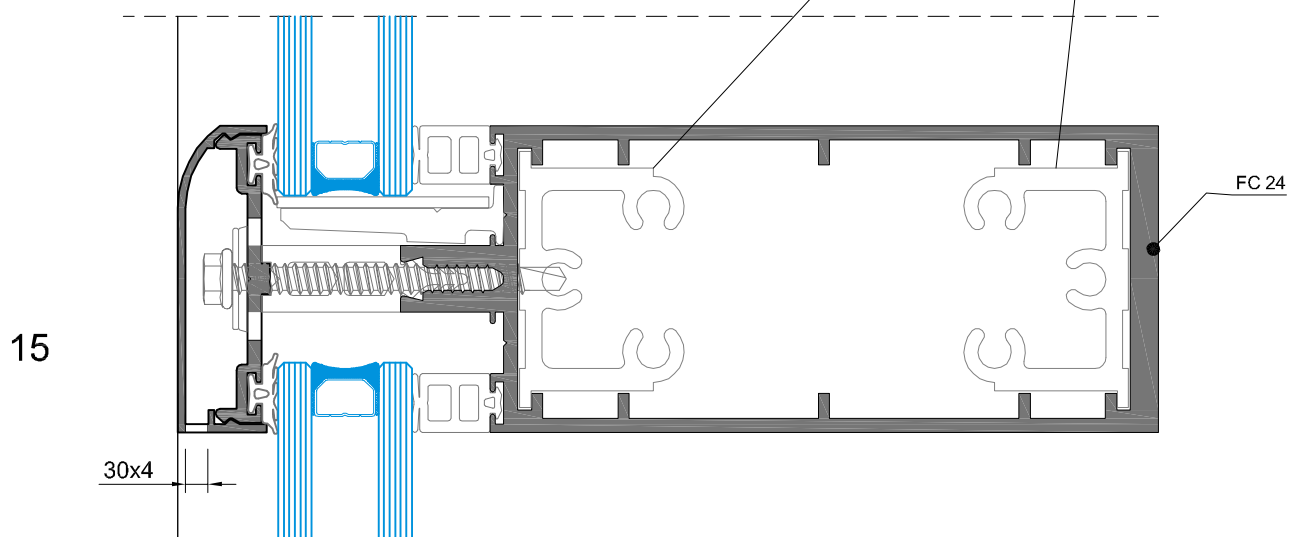
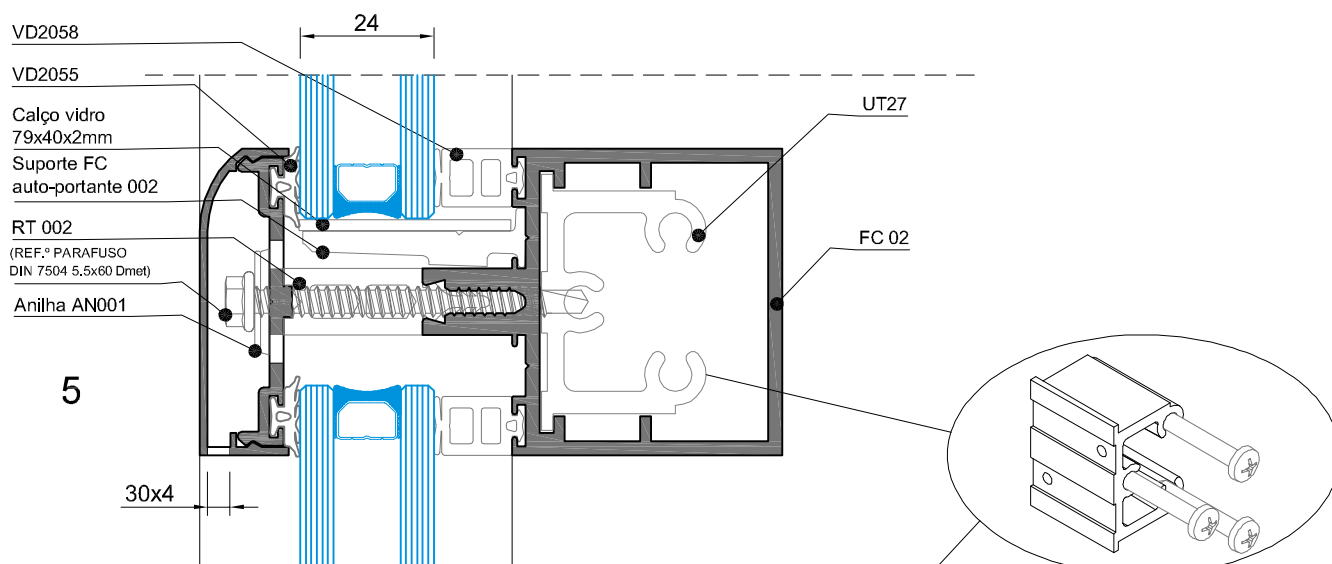
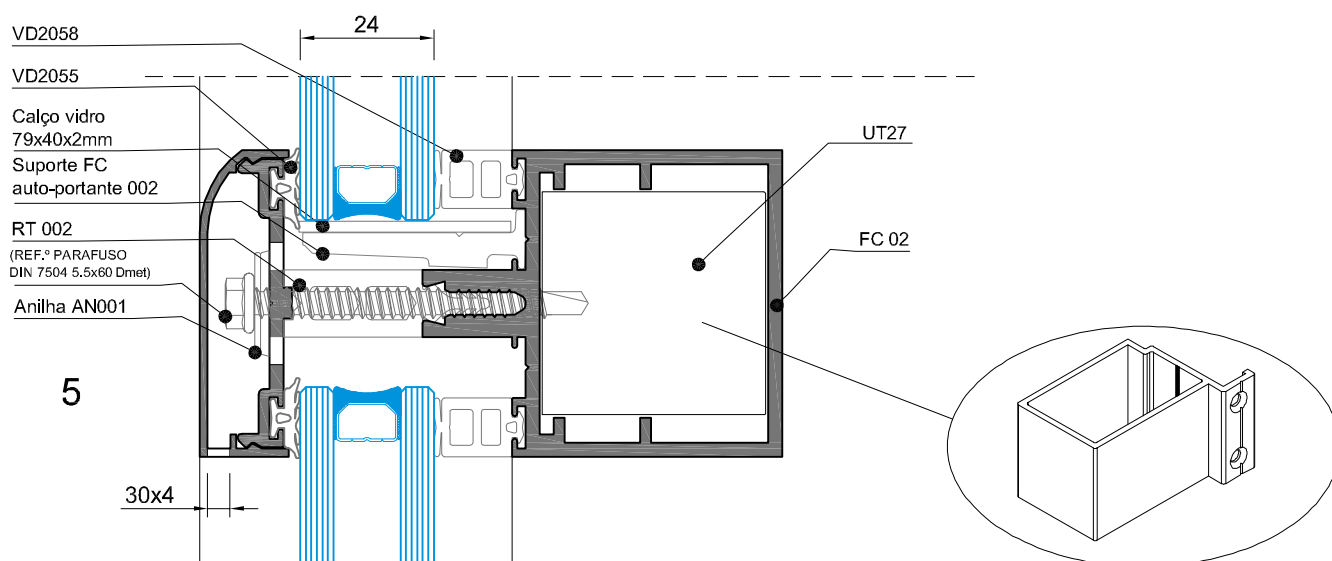
- P1 - JUNTA DE DILATAÇÃO VERTICAL  
P2 - JUNTA DE DILATAÇÃO HORIZONTAL  
P3 - JANELA FC - PROJECTANTE  
P4 - JANELA 1 FOLHA OSCILO-BATENTE - SERIE SA



FUNDO DE JUNTA  
SILICONE

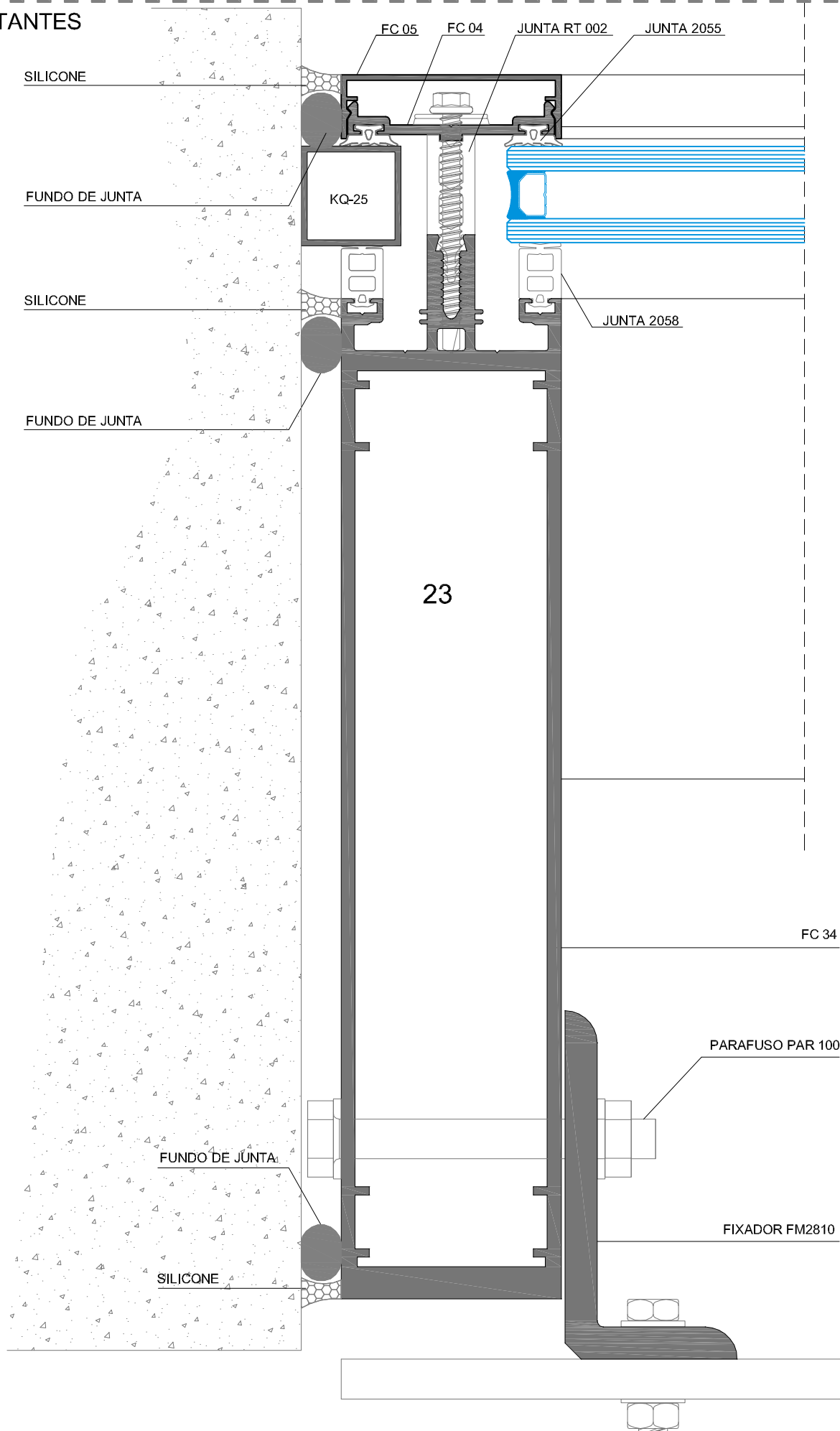


## TRAVESSAS

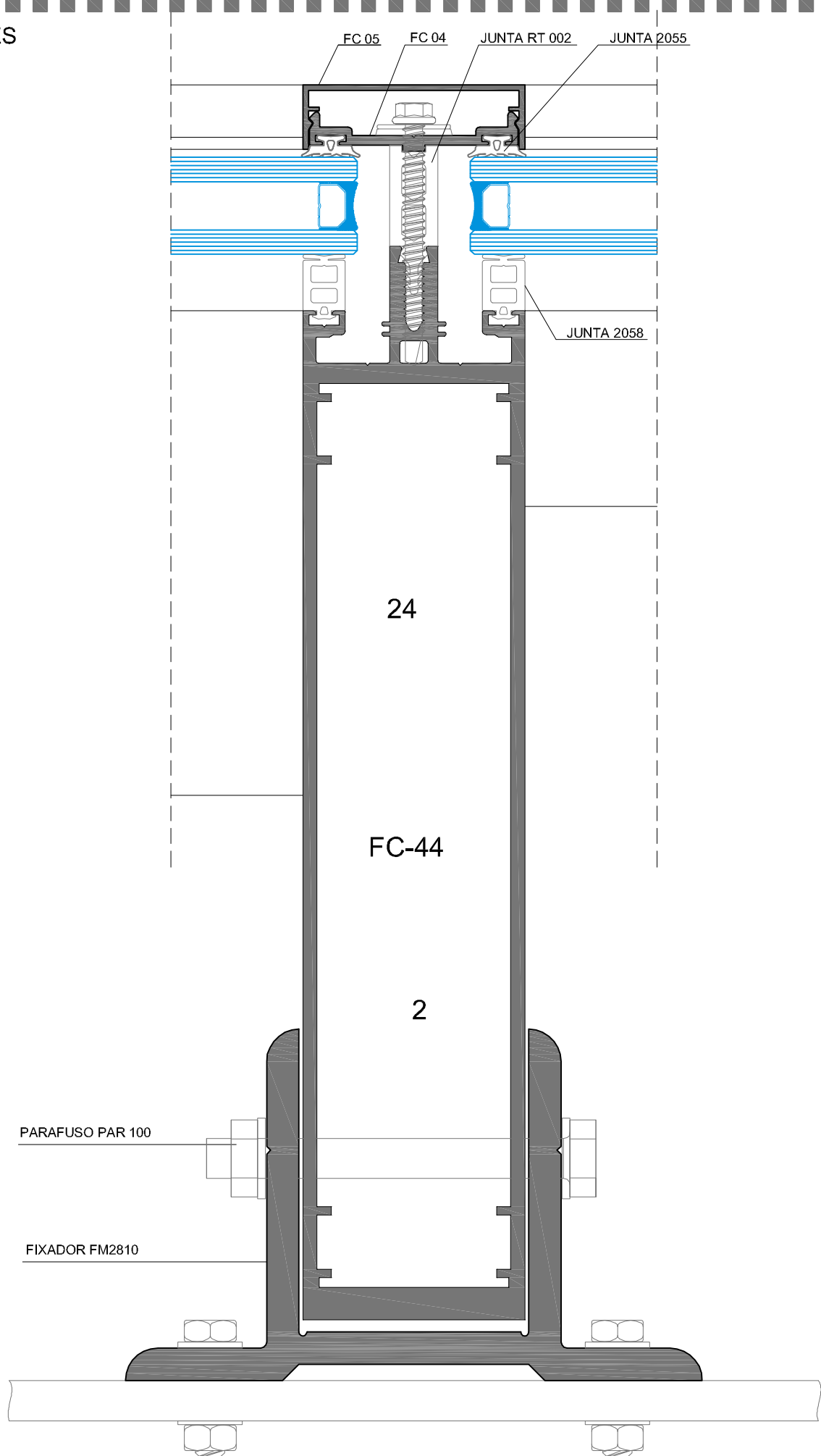




MONTANTES



MONTANTES



JUNTA DE DILATAÇÃO HORIZONTAL

70

15

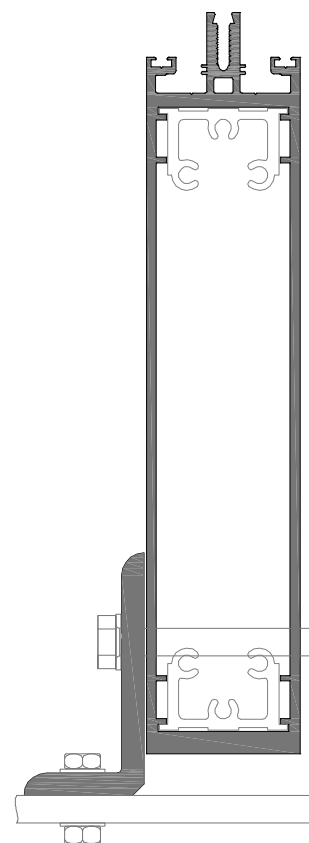
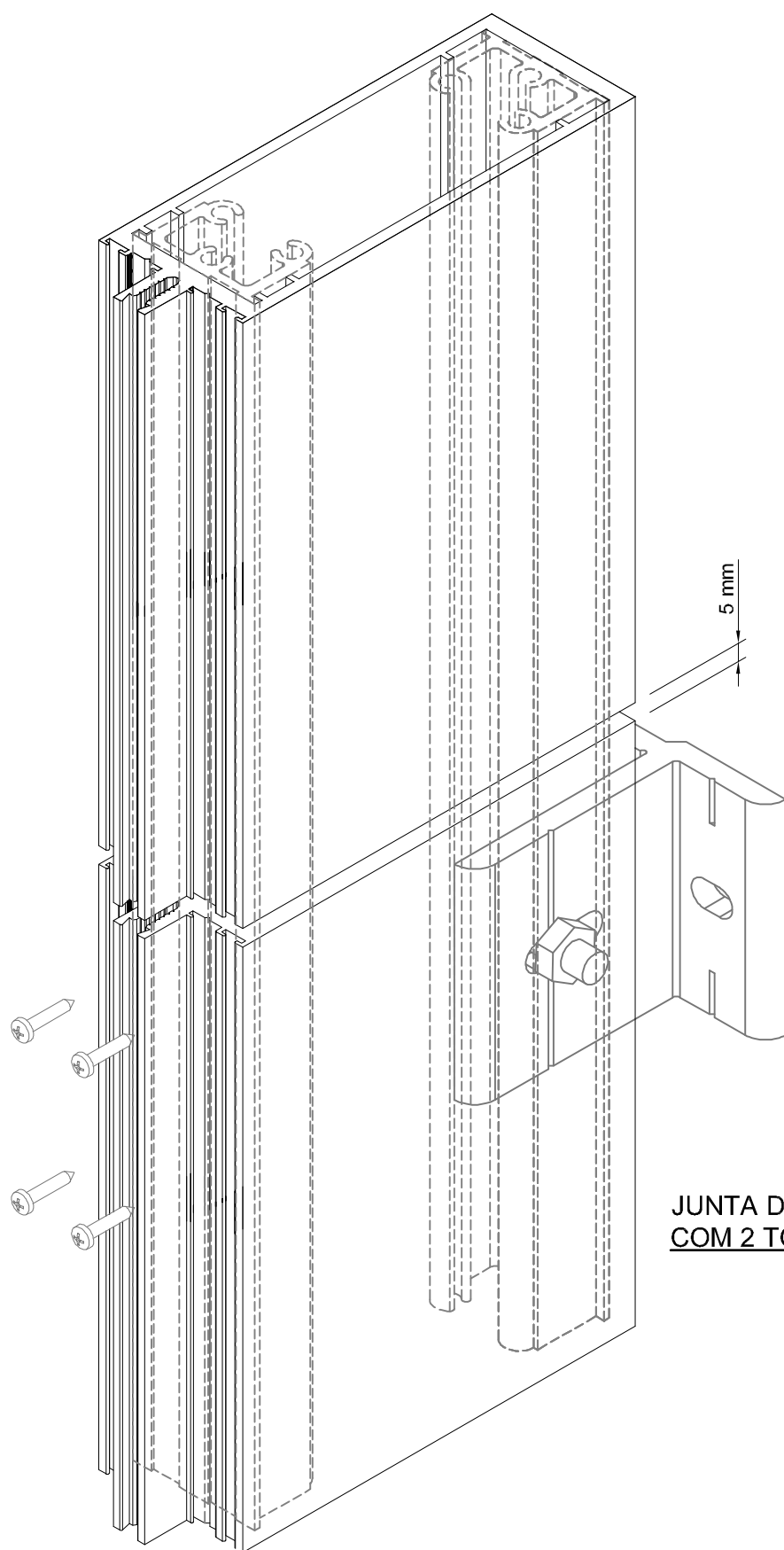
P2

25

PARAFUSO PAR 100

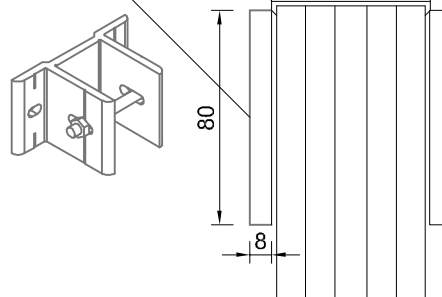
FIXADOR FM2810

P1

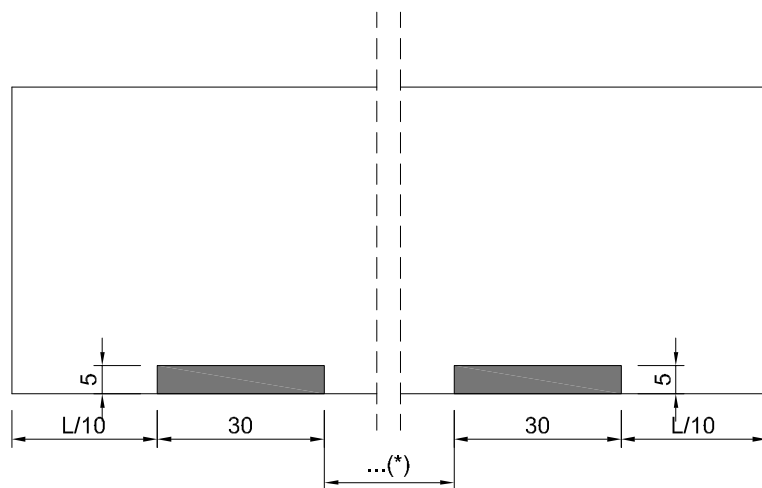
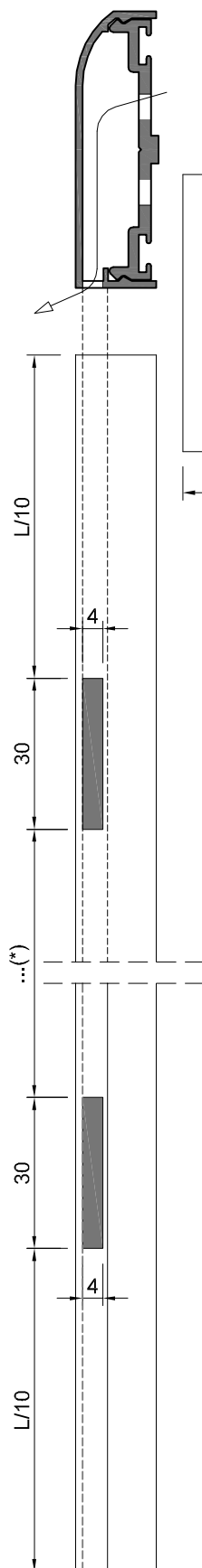
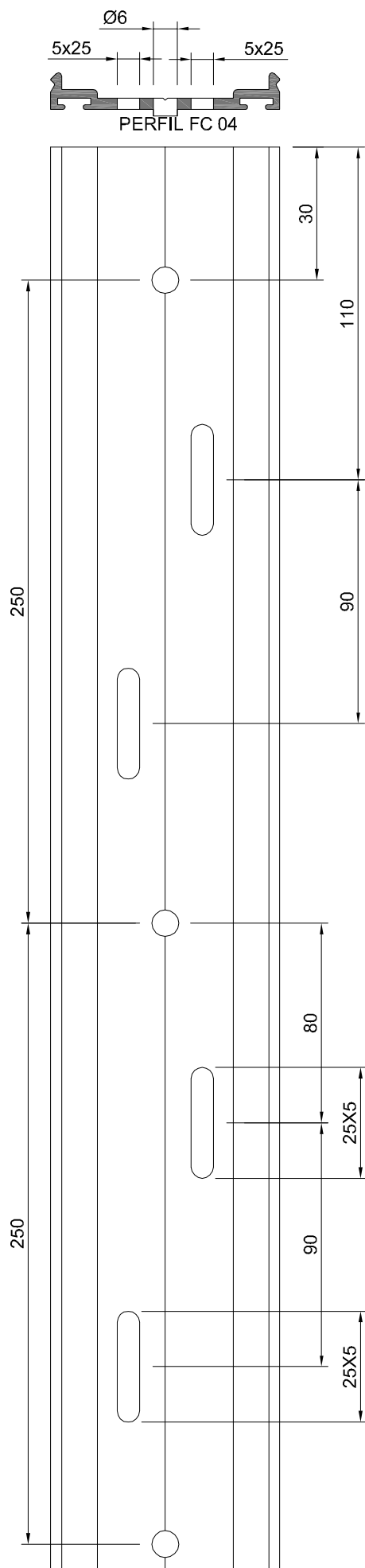


JUNTA DE DILATAÇÃO  
COM 2 TOPOS UNIVERSAIS

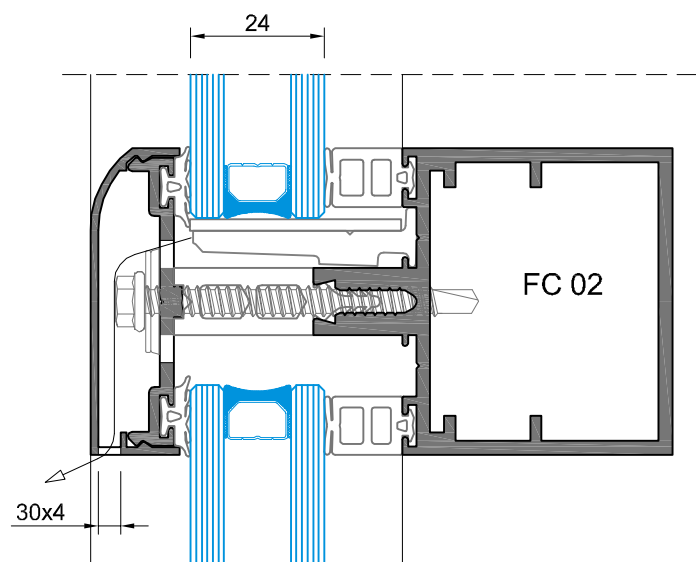
FM2810



# FC 04 / FC 05 - RASGOS DE DRENAGEM DE ÁGUAS



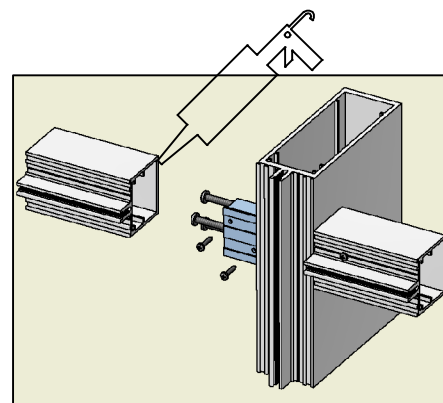
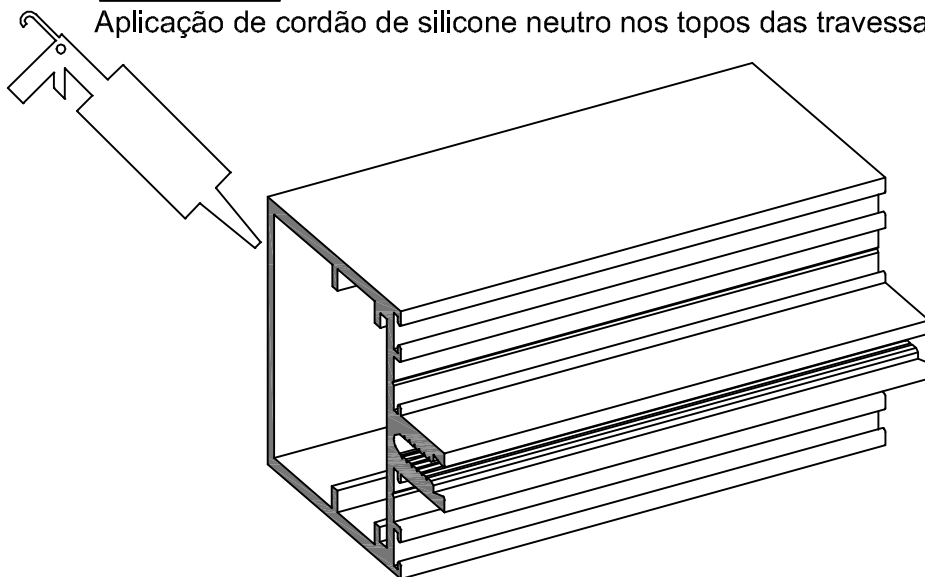
\* Até 1.00 m de largura, mínimo de 2 rasgos por cada largura. A partir de 1.00m, serão realizados mais um rasgo com as mesmas dimensões por cada metro.



## APLICAÇÃO DA UNIÃO P/ TRAVESSAS UT2807

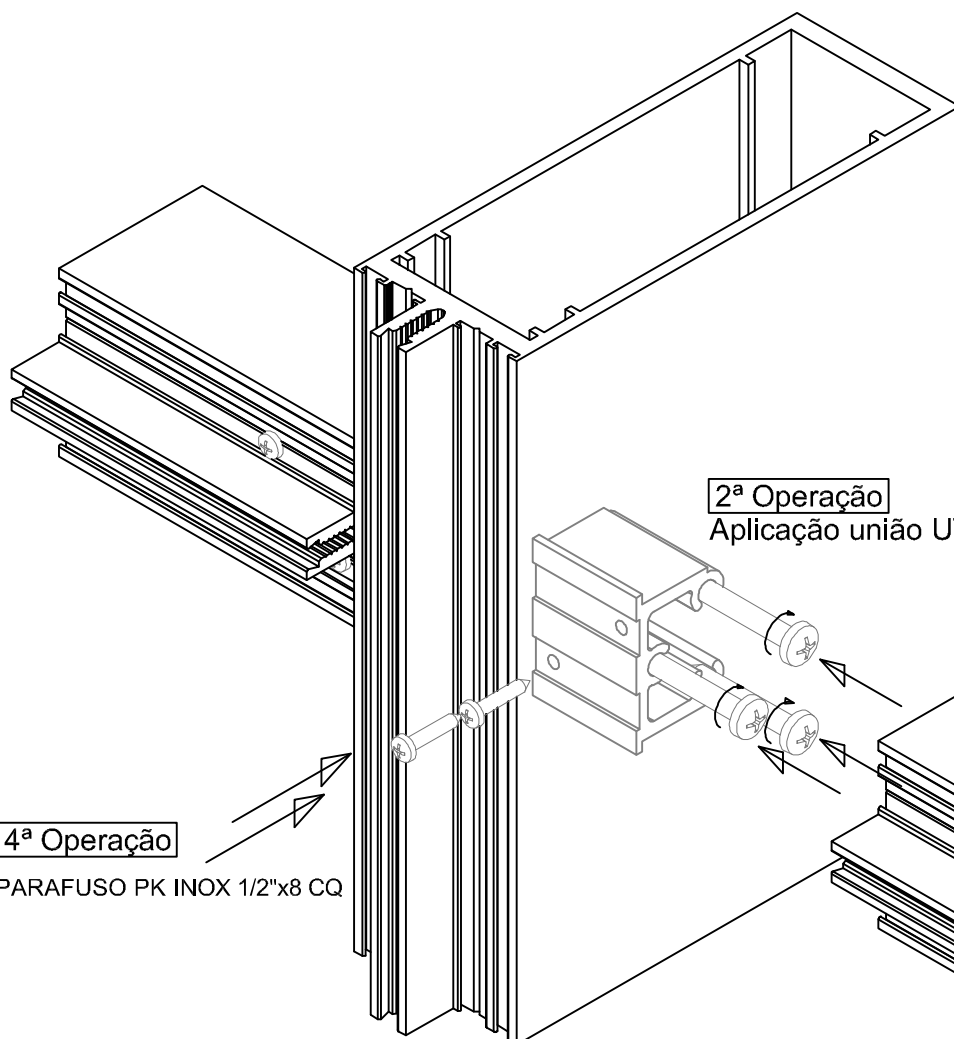
### 1ª Operação

Aplicação de cordão de silicone neutro nos topos das travessas



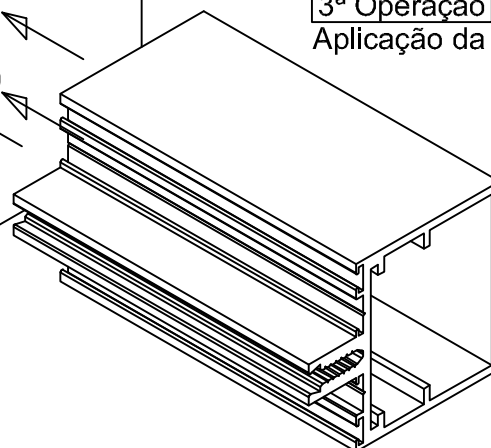
### 2ª Operação

Aplicação união UT2807



### 3ª Operação

Aplicação da Travessa



### 4ª Operação

PARAFUSO PK INOX 1/2"x8 CQ

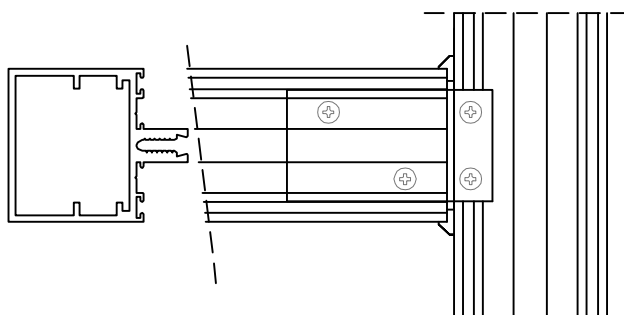
Por cada união UT2807 considerar:

- 2 parafusos PKI PH 1/2"x8 CQ inox

- 3 parafusos:

- Parafuso PK INOX PH 2"x12 CQ (FC-34/FC-44)
- Parafuso PAR005 PK INOX PH 1 3/4"x12 CQ (FC-01/FC-02/FC-24)

## APLICAÇÃO DA UNIÃO FRONTAL P/ TRAVESSAS UT27



2ª Operação

FC 01

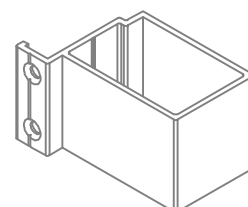
1ª Operação

FC 02

&lt;Montagem&gt;

Parafuso PKI PH  
3.4"x8 CX inoxParafuso PKI PH  
1/2"x8 CQ inox

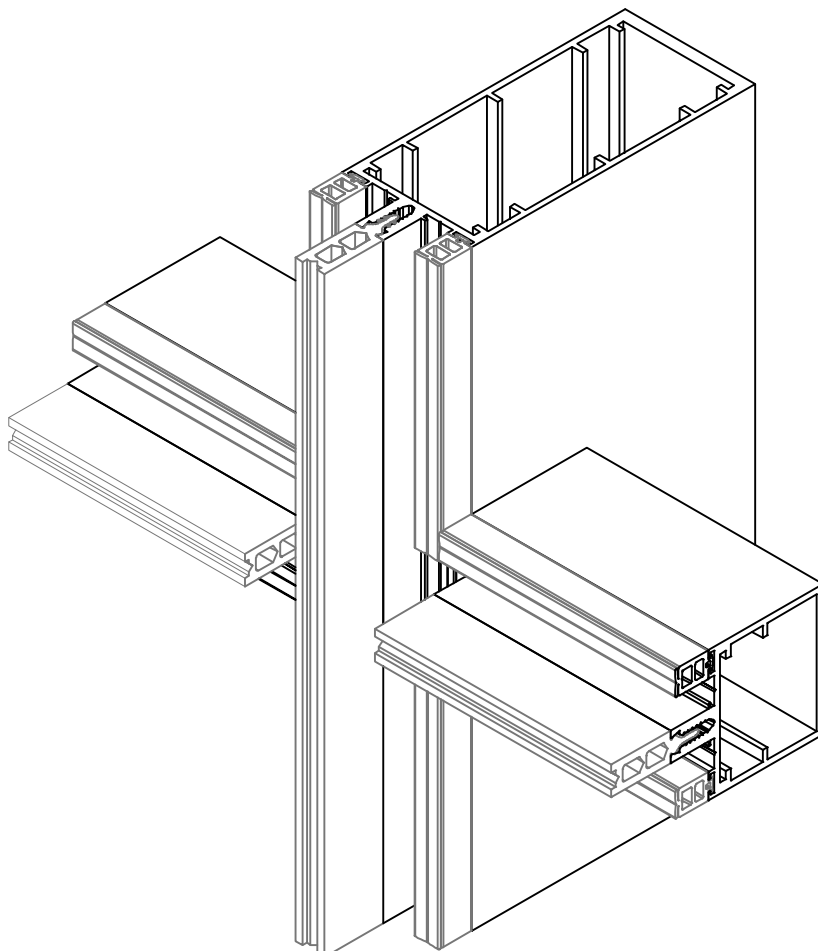
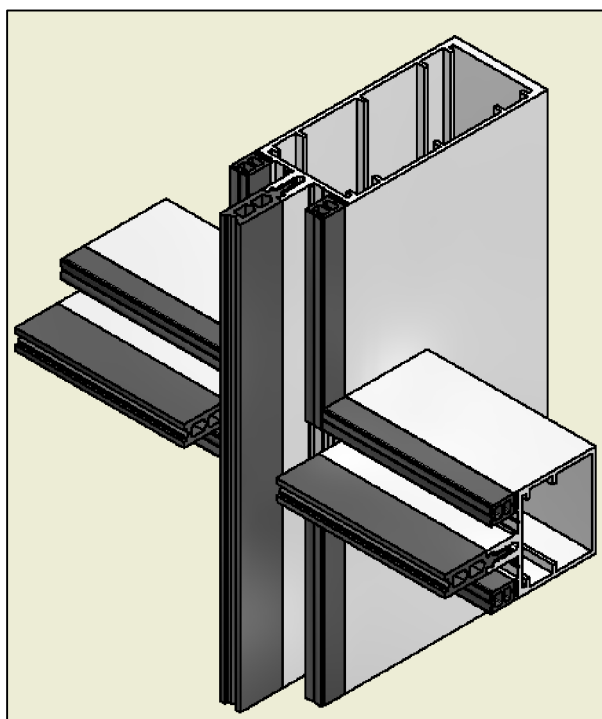
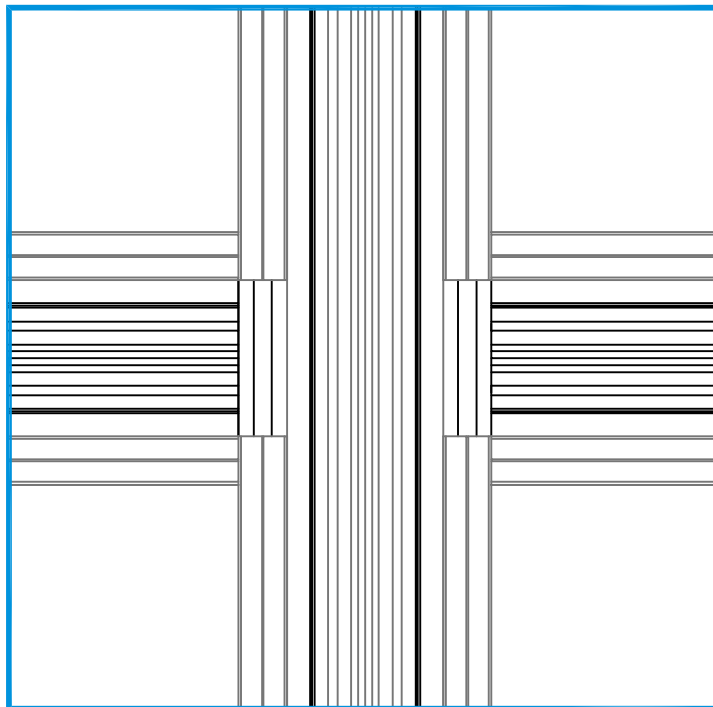
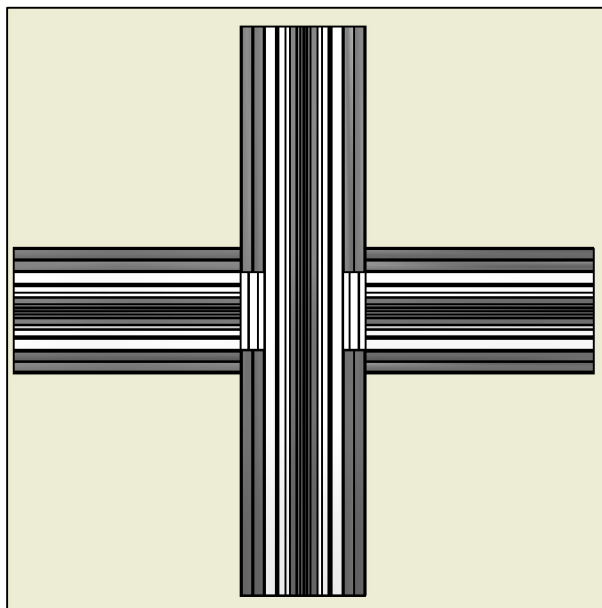
UNIÃO FRONTAL UT27

**Nota:**

- Por cada união UT27 considerar os seguintes parafusos para orçamento:
- 2 parafusos PKI PH 3.4"x8 CX inox
  - 2 parafusos PKI PH 1/2"x8 CQ inox

APLICAÇÃO DOS VEDANTES:

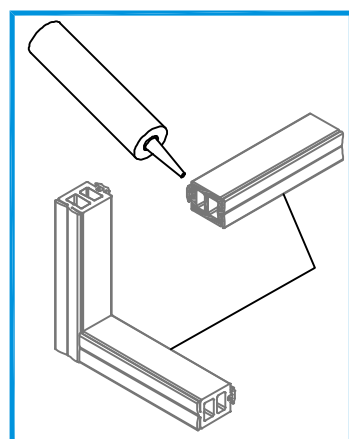
- Junta 2058
- RT 002





## APLICAÇÃO DOS VEDANTES:

- Junta 2058
- RT 002

**1ª Operação**

Colagem da união dos vedantes com "cola para vedantes Prt."







**SISTEMAS**  
**EURO 2000**®  
PERFIS DE ALUMÍNIO E VIDROS PARA ARQUITECTURA

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E [metalfer@sosoares.pt](mailto:metalfer@sosoares.pt)

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**[www.sosoares.pt](http://www.sosoares.pt)**