

FC

sistema de fachadas ligeiras

FC Estrutural | FC Horizonte | FC Semi-oculta | FC Oculta



## CATÁLOGO TÉCNICO



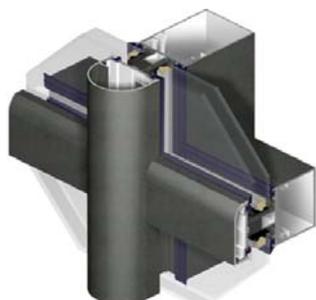
SISTEMAS  
**EURO 2000**®  
PERFIS DE ALUMÍNIO E VIDROS PARA ARQUITECTURA

## FC

## sistema de fachadas ligeiras

Grande versatilidade funcional que permite dar resposta às mais exigentes estruturas arquitectónicas. Com a fiabilidade estrutural assumida, são oferecidas várias imagens de apresentação que vão ao encontro das necessidades do mercado:

FC Estrutural | FC Horizonte | FC Semi-Oculta | FC Oculta



## 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	Vistas retas ou redondas em montantes e travessas
ENCHIMENTO	De 12 a 47mm
ABERTURAS	Batente (int./ext.) com perfil visível Projectante, com caixilho móvel (oculto pelo exterior)
PESO MÁXIMO	150Kg/vão projectante



## 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, horizontal contínua
ENCHIMENTO	De 12 a 47mm
VEDAÇÃO	Junta vertical em E.P.D.M.
ABERTURAS	Projectante, com caixilho móvel (oculto pelo exterior)
PESO MÁXIMO	150Kg/vão projectante



## 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.

VISTAS	Visíveis pelo exterior, de 12mm ou 20mm
ENCHIMENTO	De 6 a 430mm
ABERTURAS	Projectantes
PESO MÁXIMO	150Kg/vão projectante



## 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.

VISTAS	Sem vistas pelo exterior
ENCHIMENTO	De 6 a 430mm
ABERTURAS	Projectantes
PESO MÁXIMO	150Kg/vão projectante

## ACABAMENTOS

Lacados | Anodizados

## 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.  
-Vedantes e topos em E.P.D.M. para uma estanquidade e permeabilidade superior.

## DESEMPENHO DO SISTEMA

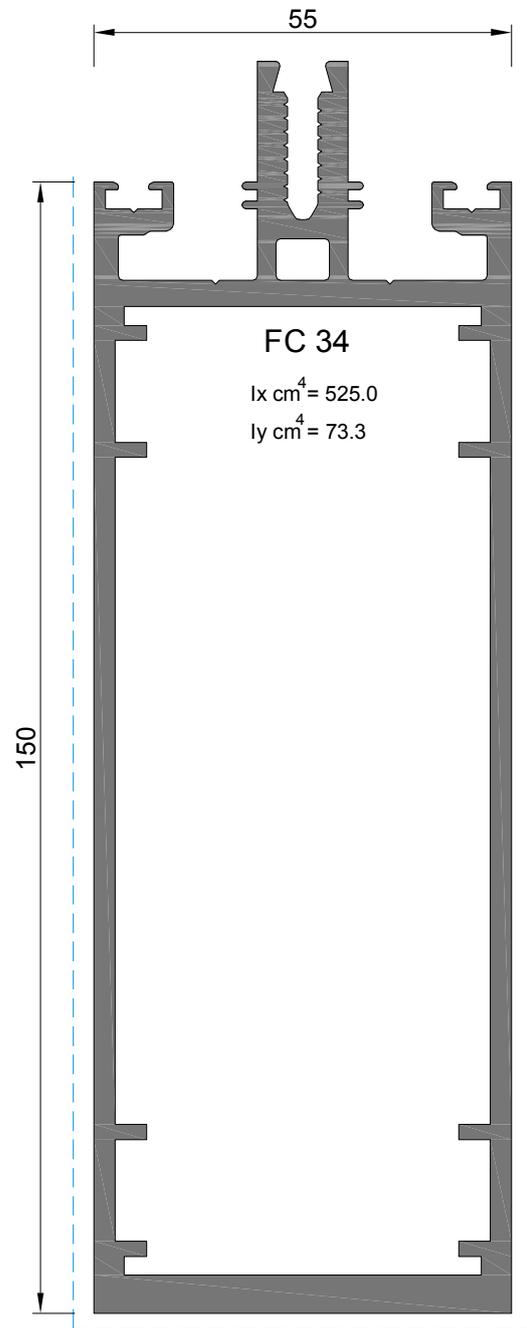
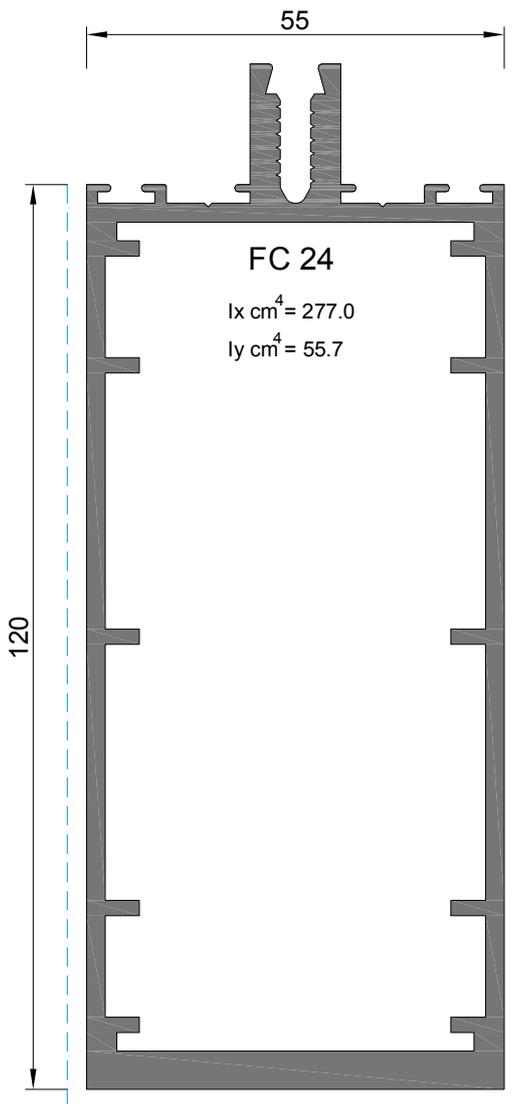
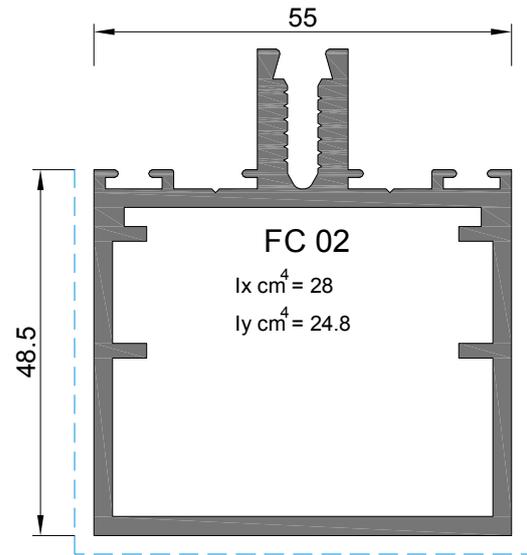
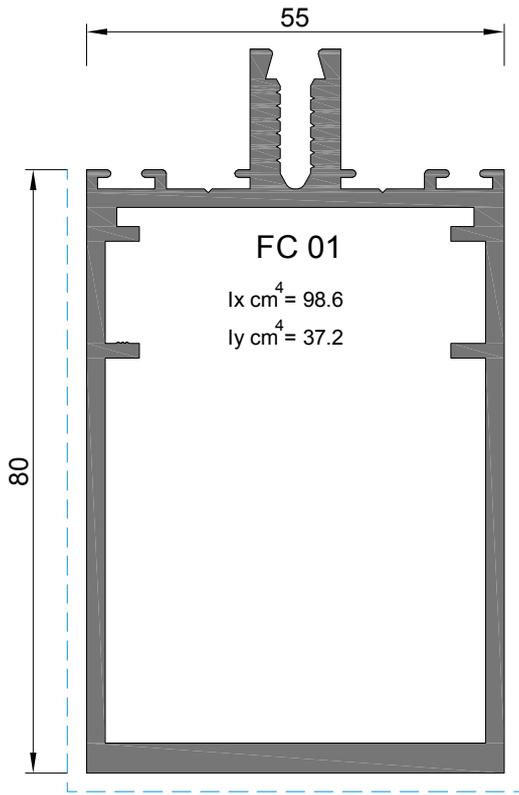
Dimensão das fachadas ensaiadas: 5110 x 6250 mm

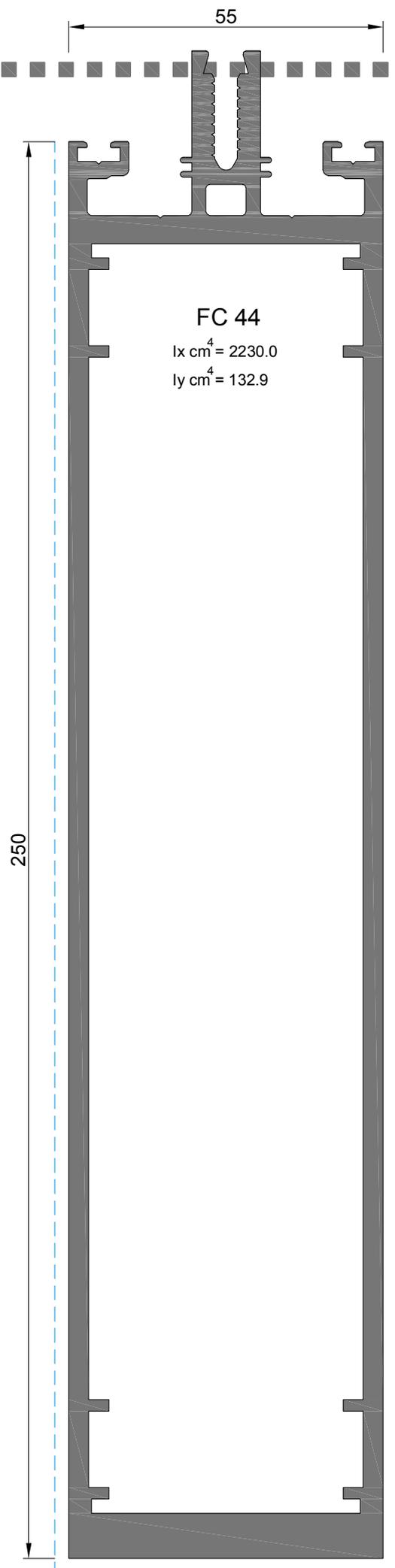
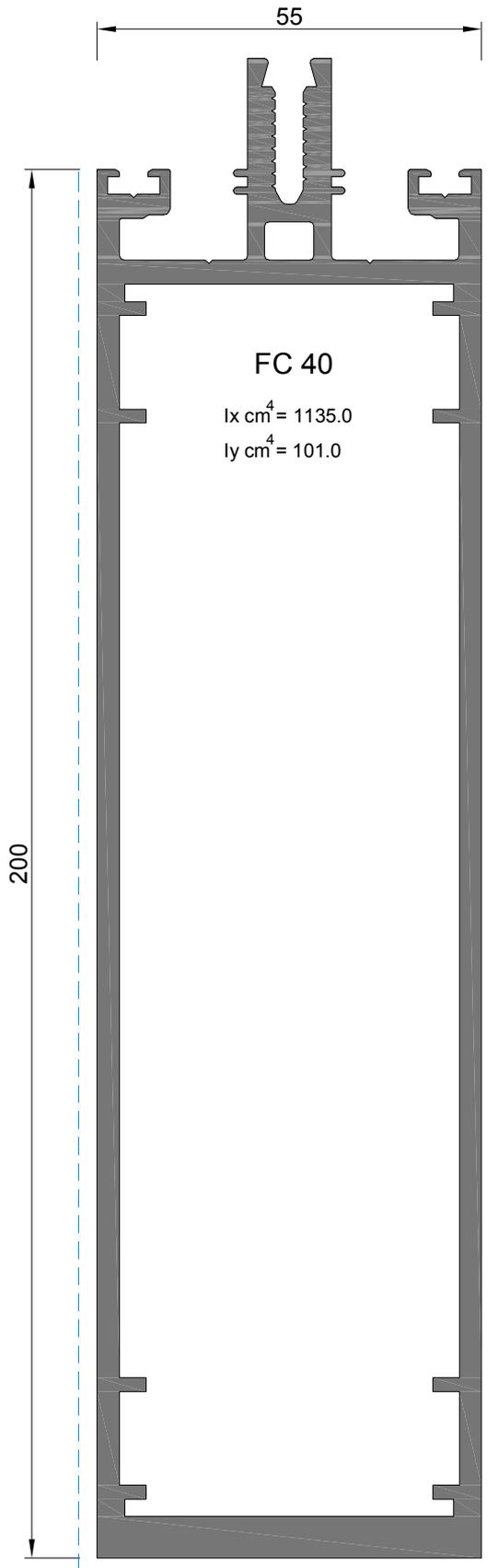
Fachada Estrutural Fachada Horizonte	Com 1 vão Projetante e 1 vão Oscilo-batente	Vão Fixo
Permeabilidade ao AR <small>UNE-EN 12153:2000</small>	Classe A3	Classe A4
Estanquidade à ÁGUA <small>UNE-EN 12155:2000</small>	Classe RE 1050	Classe RE 1500
Resistência ao VENTO <small>UNE-EN 12179:2001</small>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

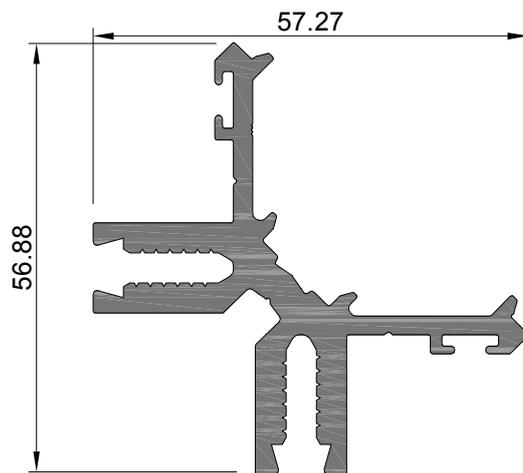
Fachada Semi-Ocultas	Com 1 vão Projetante	Vão Fixo
Permeabilidade ao AR <small>UNE-EN 12153:2000</small>	Classe AE750 (Especial)	Classe AE750 (Especial)
Estanquidade à ÁGUA <small>UNE-EN 12155:2000</small>	Classe RE 1500	Classe RE 1500
Resistência ao VENTO <small>UNE-EN 12179:2001</small>	APTO (1500Pa)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

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

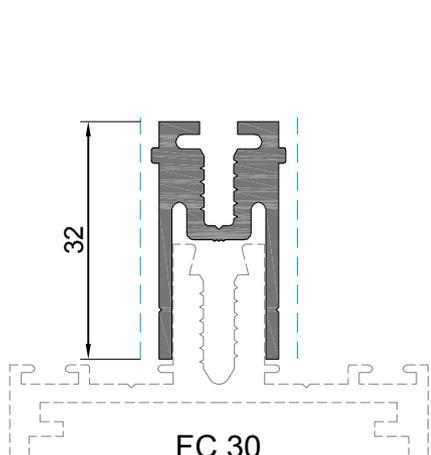
	Resistência às Cargas Vivas Horizontais <small>UNE-EN 1991-1-1:2003</small> Fachada com 5110 x 6250mm)	Resistência ao Impacto <small>UNE-EN 14019:2004 (Fachadas) UNE-EN 13049:2003 (Janelas)</small> Fachada com 2500 x 2500mm)	Resistência ao Peso Próprio <small>UNE-EN 13830:2004</small> Fachada com 2490 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



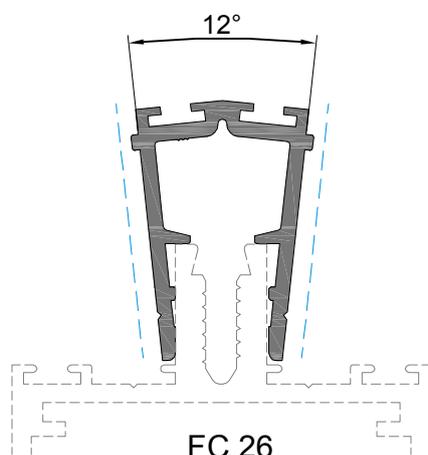




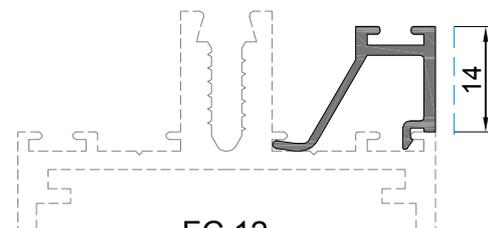
FC 42



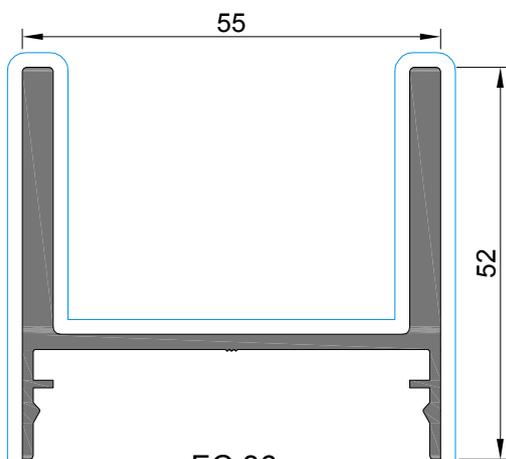
FC 30



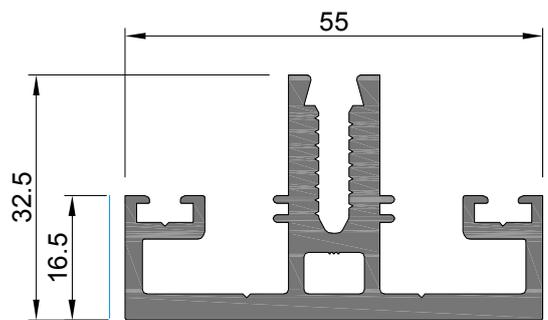
FC 26



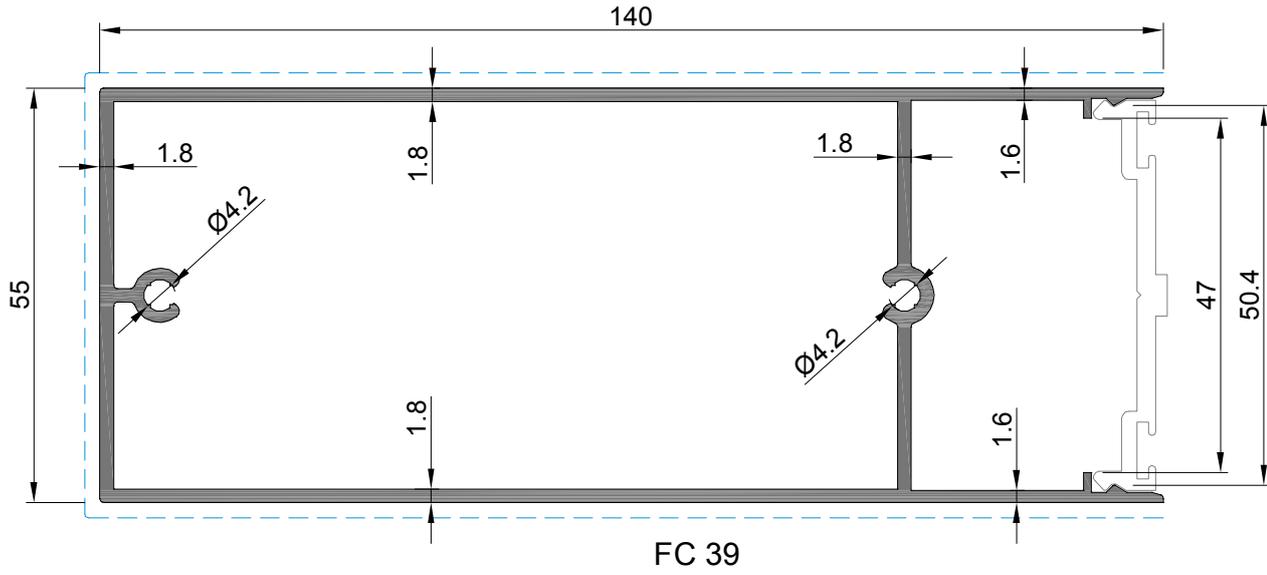
FC 12



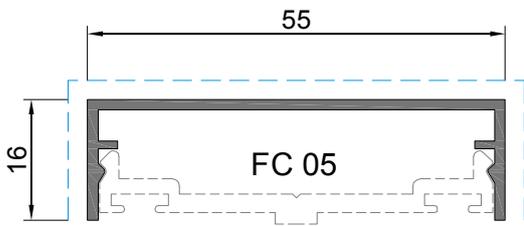
FC 36



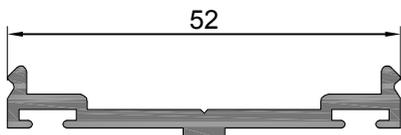
FC 00



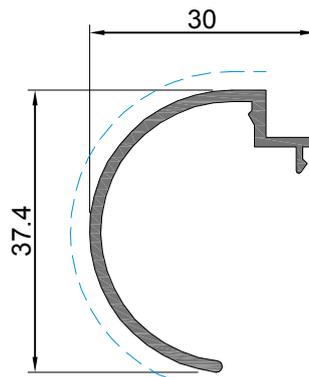
FC 39



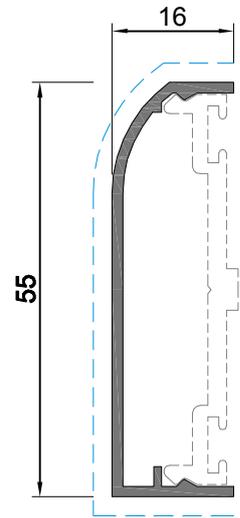
FC 05



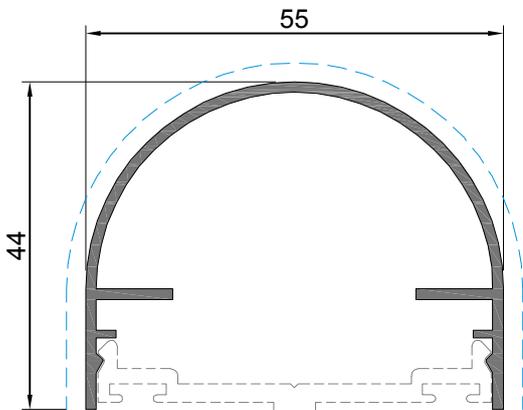
FC 04



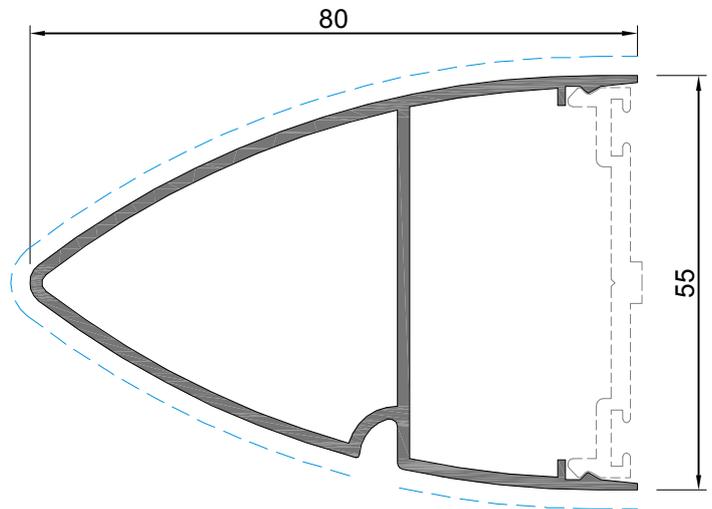
FC 11



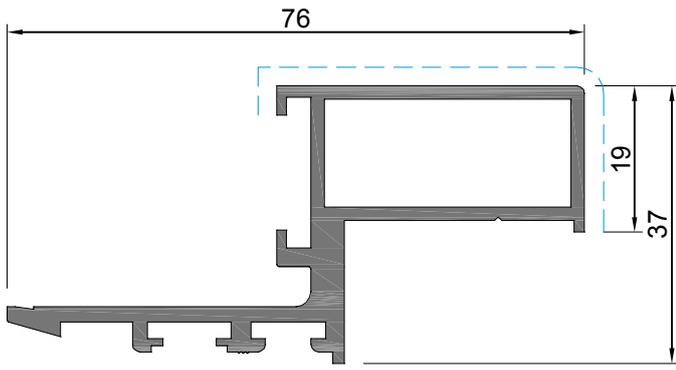
FC 06



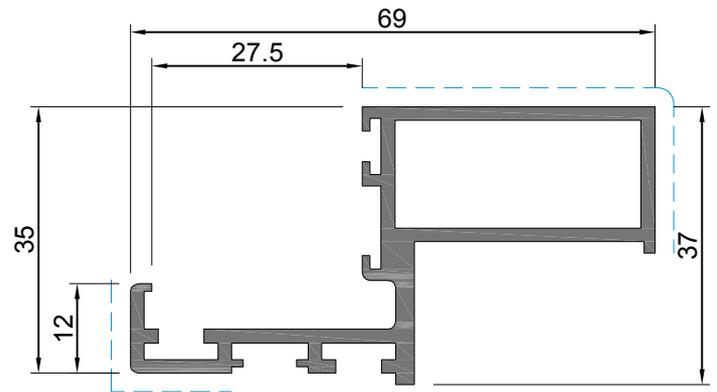
FC 22



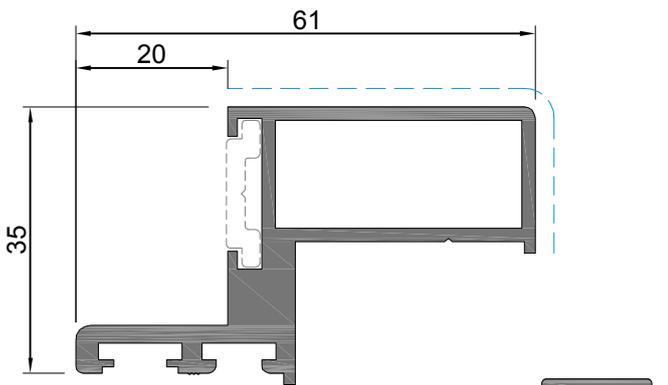
FC 25



FC 54



FC 15

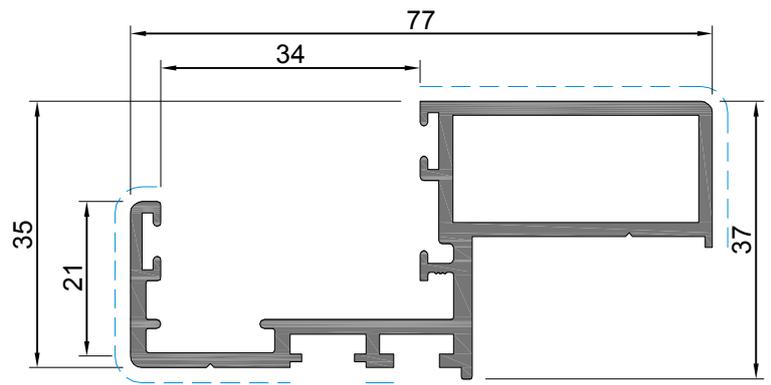


FC 14

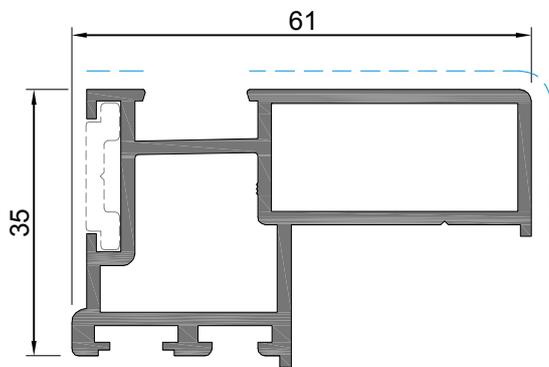


SA 33

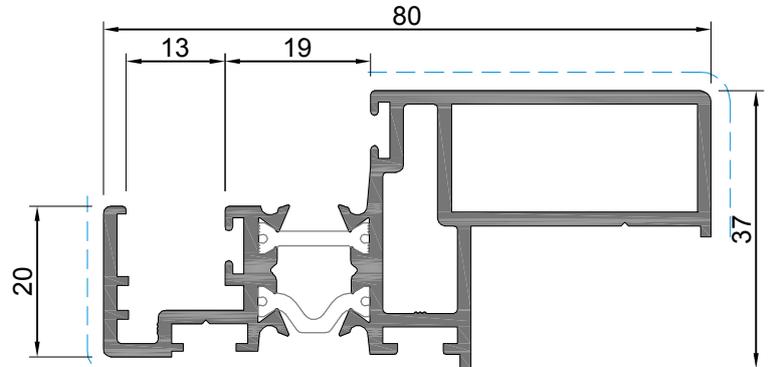
(ANODIZADO COM >20microns)



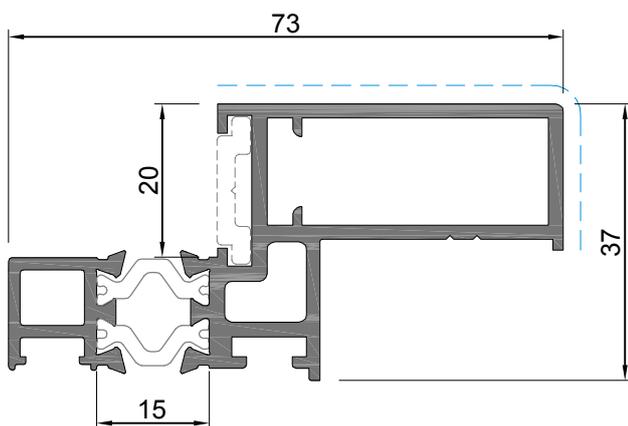
FC 45



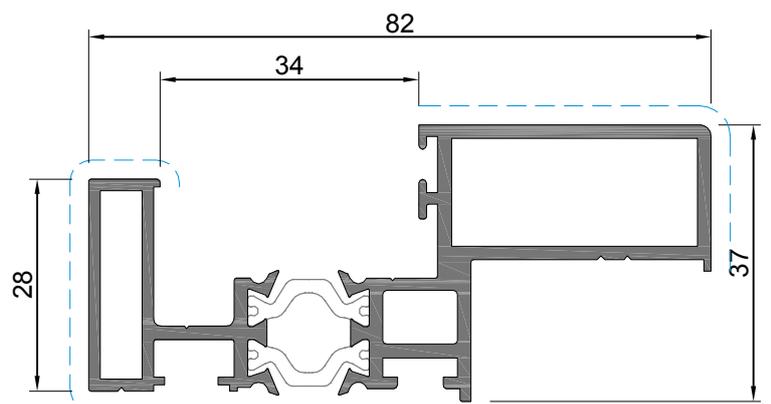
FC 23



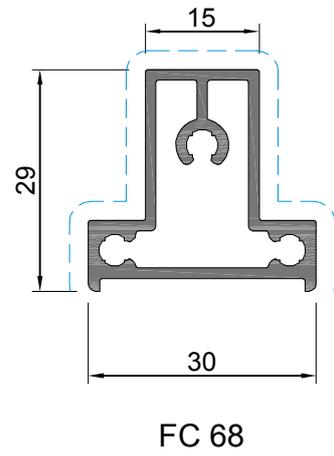
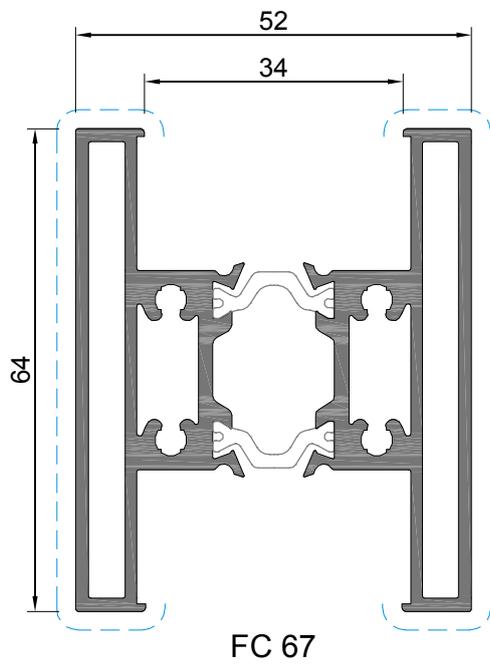
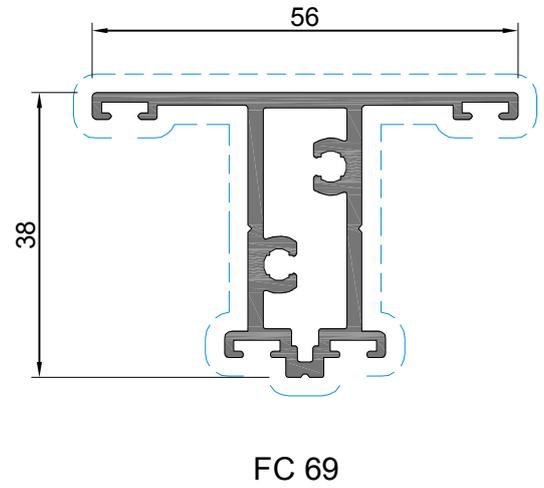
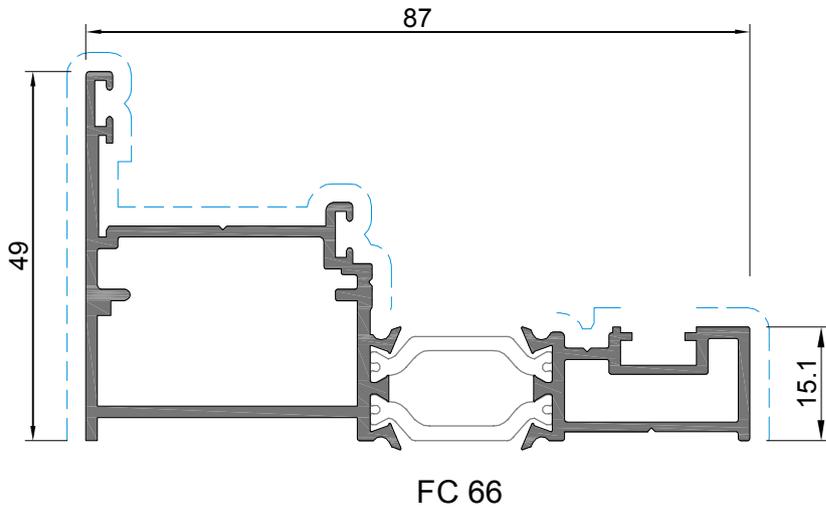
FC 35

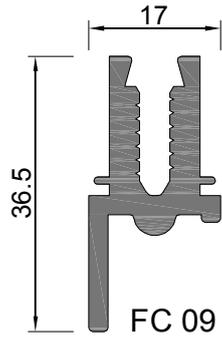
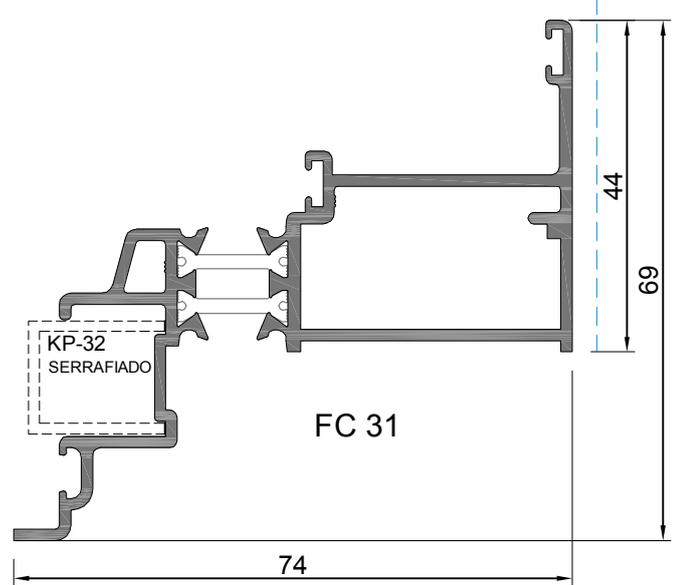
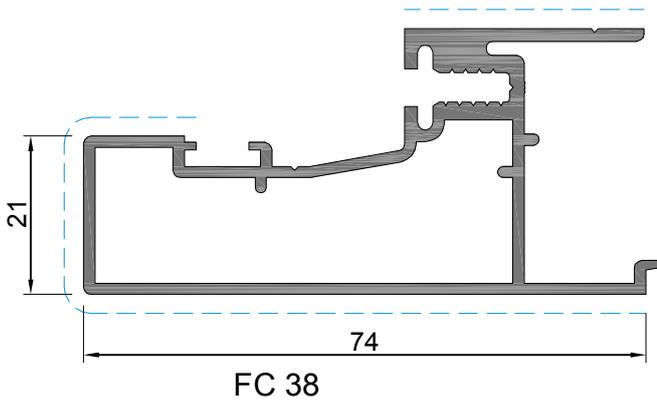


FC 64

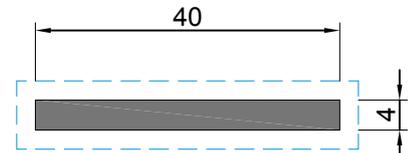
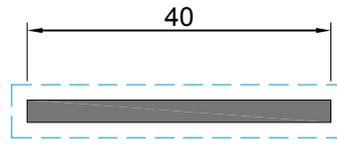


FC 65



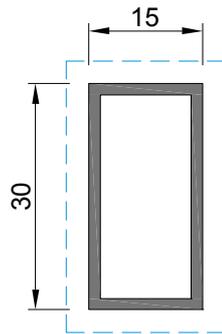
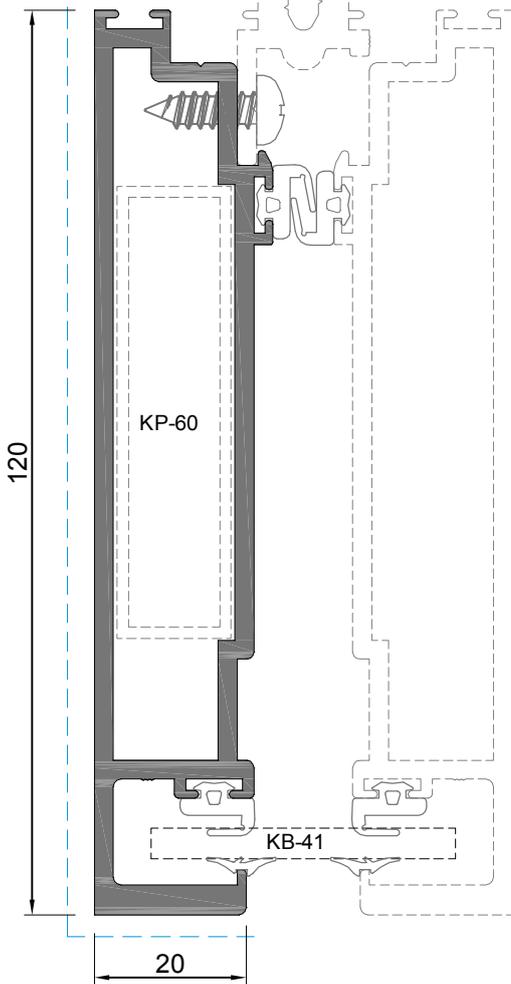


**FC 08**  
 $I_x \text{ cm}^4 = 104.18$   
 $I_y \text{ cm}^4 = 4.99$

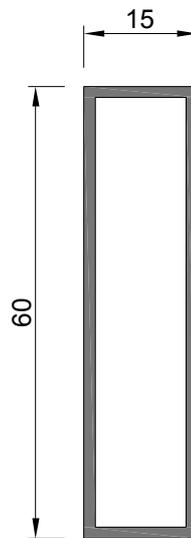


**KB 40**

**KB 41**

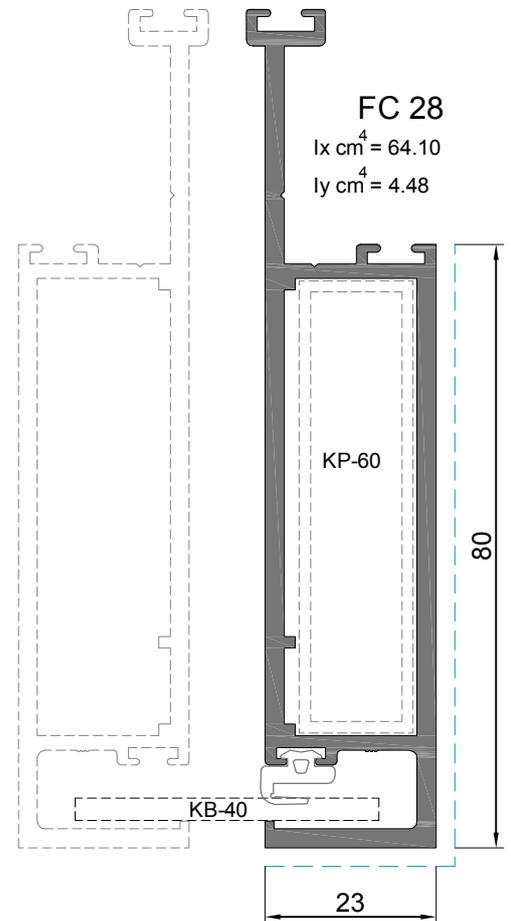


**KP 32**



**KP 60**

$I_x \text{ cm}^4 = 8.48$   
 $I_y \text{ cm}^4 = 0.86$

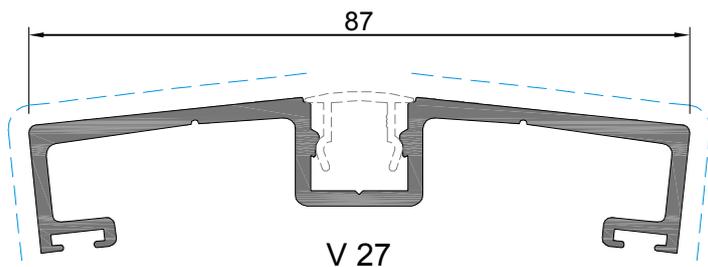


**FC 28**  
 $I_x \text{ cm}^4 = 64.10$   
 $I_y \text{ cm}^4 = 4.48$

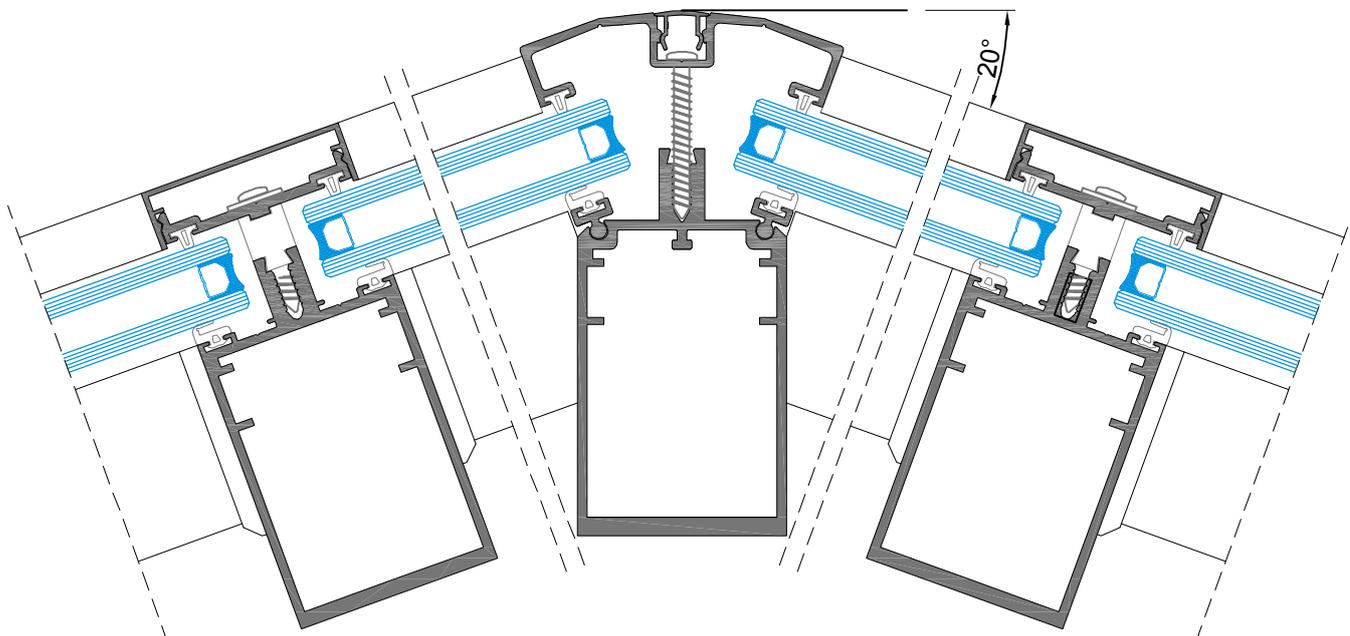
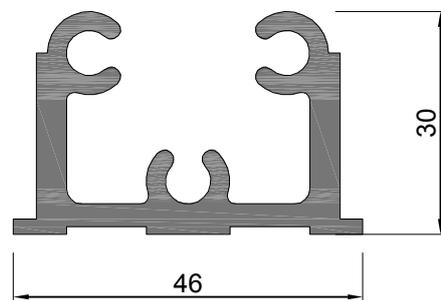
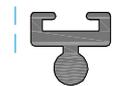
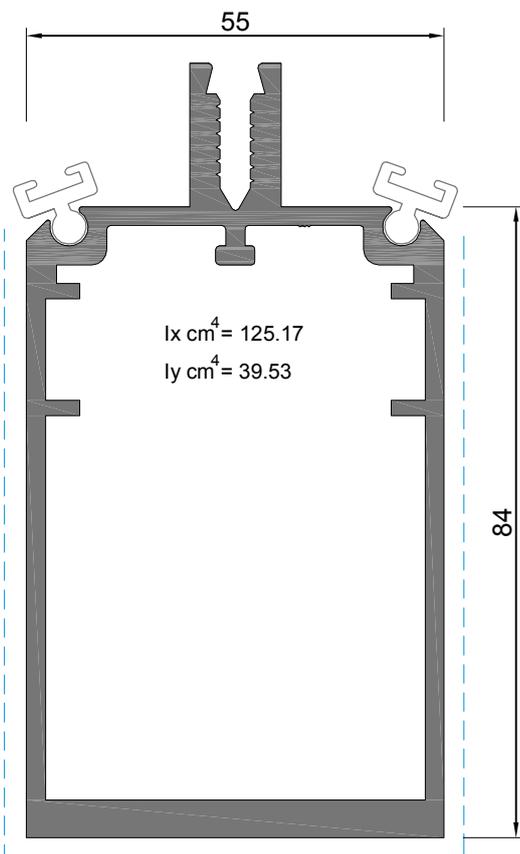
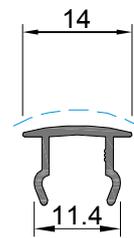
PERFIL FC 08 PARA JUNTA DE DILATAÇÃO, REMATE LATERAL OU ÂNGULOS EM FC SEMI-OCULTA OU OCULTA APLICAR UNICAMENTE COM O MONTANTE FC 24

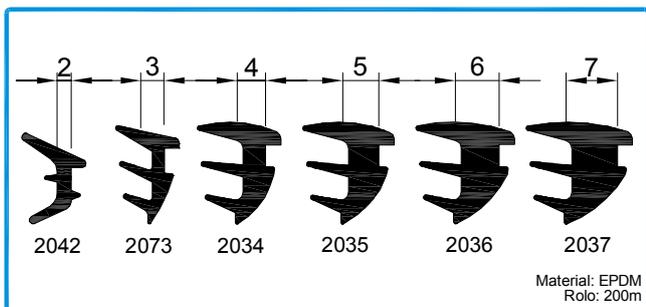
PERFIL FC 28 PARA JUNTA DE DILATAÇÃO, REMATE LATERAL OU ÂNGULOS EM FC SEMI-OCULTA OU OCULTA

PERFIS PARA ÂNGULOS DE 6 ATÉ 22°



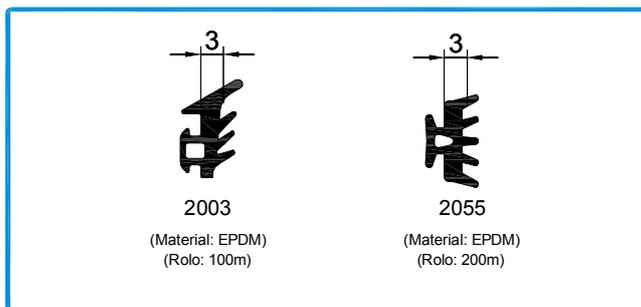
NOTA: PARA ÂNGULOS SUPERIORES A 7°, O PERFIL V 27 DEVE SER QUINADO EM BRUTO





208191 JUNTA DE CUNHA 2042      208215 JUNTA DE CUNHA 2036  
 208195 JUNTA DE CUNHA 2034      208904 JUNTA DE CUNHA 2037  
 208196 JUNTA DE CUNHA 2035      208199 JUNTA DE CUNHA 2073

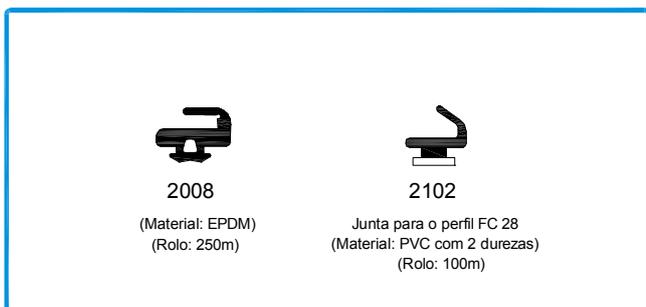
Material: EPDM  
 Rolo: 200m



208350      JUNTA DE VEDAÇÃO EXTERIOR 2003  
 208289      JUNTA DE BATENTE 2055

2003  
 (Material: EPDM)  
 (Rolo: 100m)

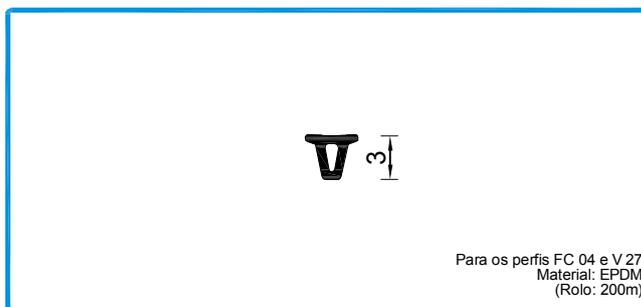
2055  
 (Material: EPDM)  
 (Rolo: 200m)



208114      JUNTA DE BATENTE 2008  
 208264      JUNTA DE BATENTE 2102

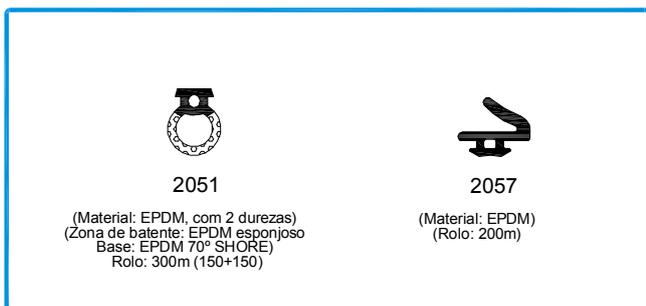
2008  
 (Material: EPDM)  
 (Rolo: 250m)

2102  
 Junta para o perfil FC 28  
 (Material: PVC com 2 durezas)  
 (Rolo: 100m)



208288      JUNTA EXTERIOR 2141

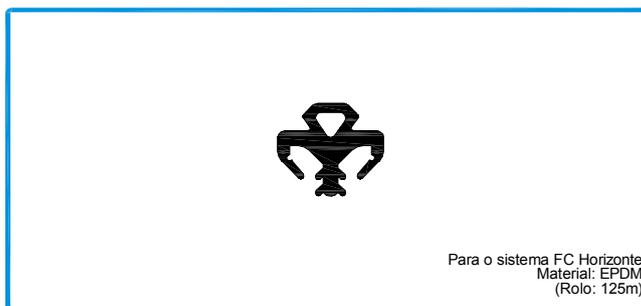
Para os perfis FC 04 e V 27  
 Material: EPDM  
 (Rolo: 200m)



208114      JUNTA DE ESTANQUIDADE 2051  
 208008      JUNTA DE ESTANQUIDADE 2057

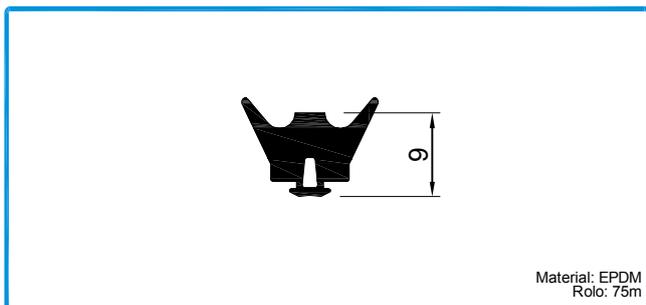
2051  
 (Material: EPDM, com 2 durezas)  
 (Zona de batente: EPDM esponjoso)  
 Base: EPDM 70° SHORE)  
 Rolo: 300m (150+150)

2057  
 (Material: EPDM)  
 (Rolo: 200m)



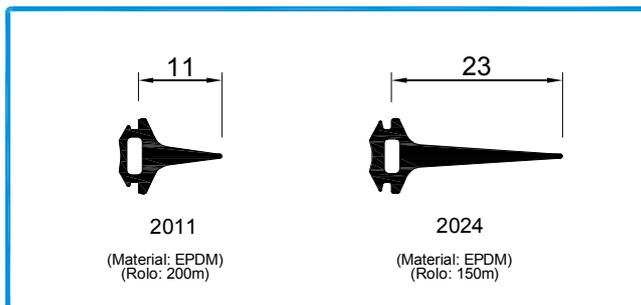
208476      JUNTA EXTERIOR 2007

Para o sistema FC Horizonte  
 Material: EPDM  
 (Rolo: 125m)



208262      JUNTA DE ESTANQUIDADE 2028

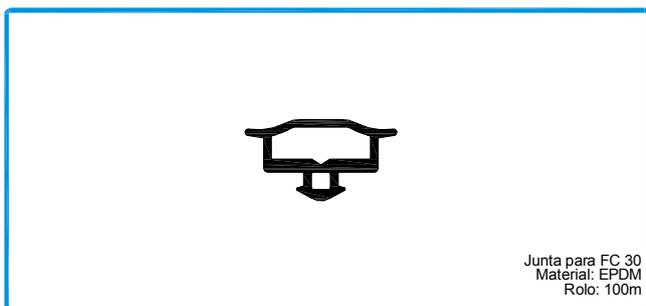
Material: EPDM  
 Rolo: 75m



208282      JUNTA EXTERIOR 2011  
 208284      JUNTA EXTERIOR 2024

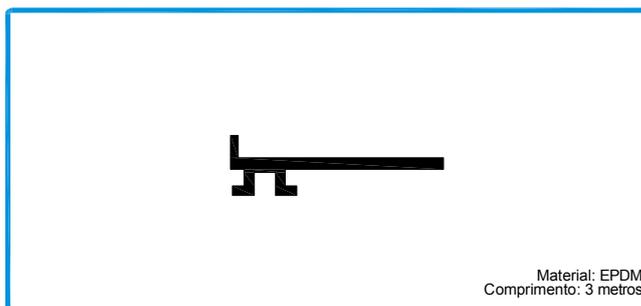
2011  
 (Material: EPDM)  
 (Rolo: 200m)

2024  
 (Material: EPDM)  
 (Rolo: 150m)



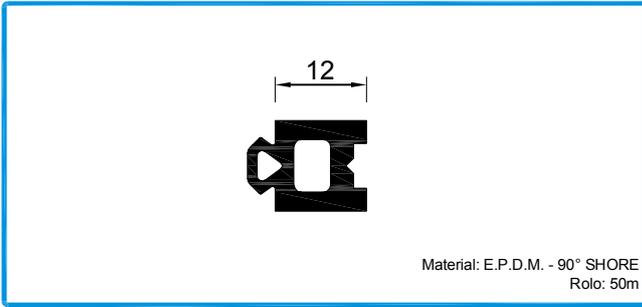
208382      JUNTA CENTRAL 2109 Pr.

Junta para FC 30  
 Material: EPDM  
 Rolo: 100m



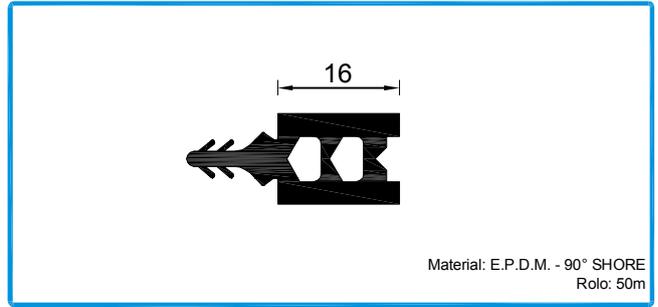
208308      JUNTA LIMITADORA 2100

Material: EPDM  
 Comprimento: 3 metros



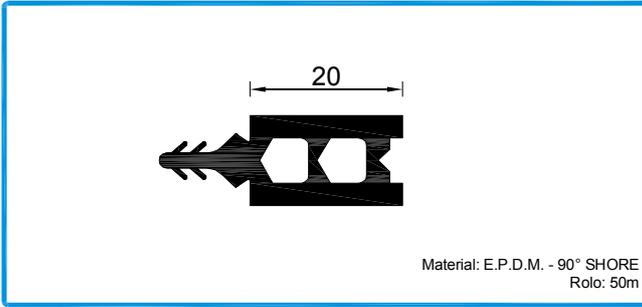
208393

JUNTA RT 001 Pr.



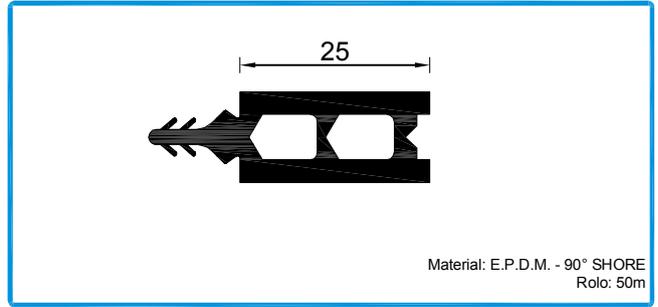
208396

JUNTA RT 004



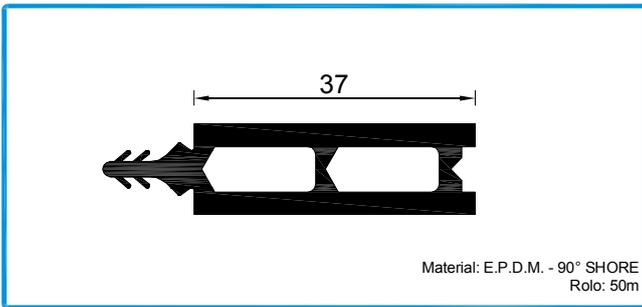
208397

JUNTA RT 005



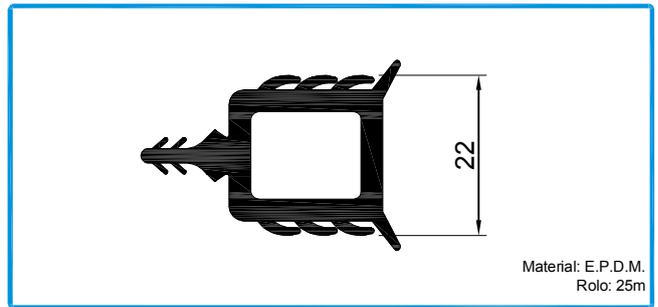
208394

JUNTA RT 002 Pr.



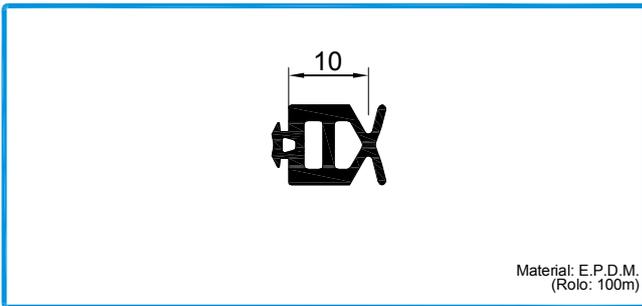
208395

JUNTA RT 003



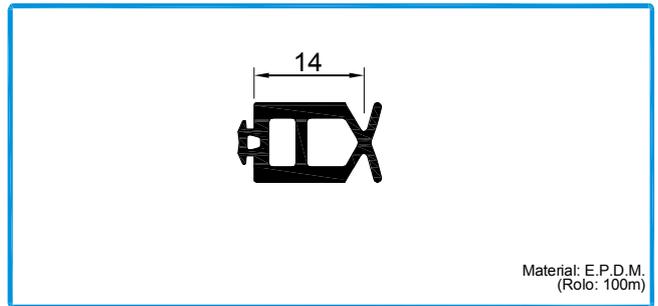
208293

JUNTA DE ESTANQUIDADE 2056



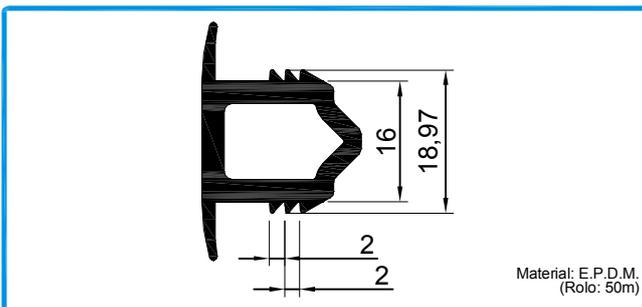
208285

JUNTA DE ESTANQUIDADE 2062



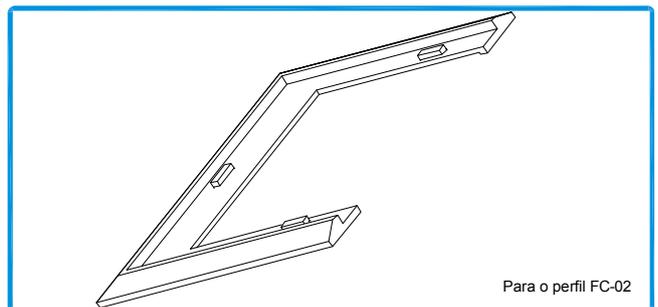
208908

JUNTA DE ESTANQUIDADE 2058



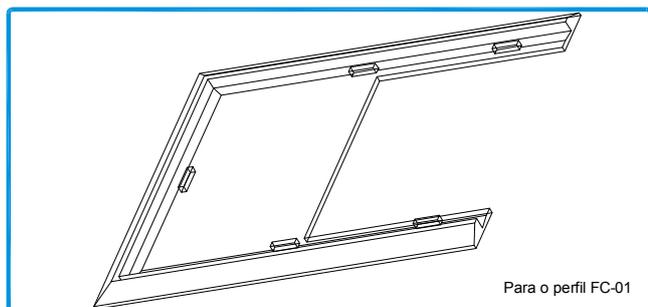
208135

JUNTA 2156



210248

TOPO P/ TRAVESSAS TP2801



Para o perfil FC-01

210246

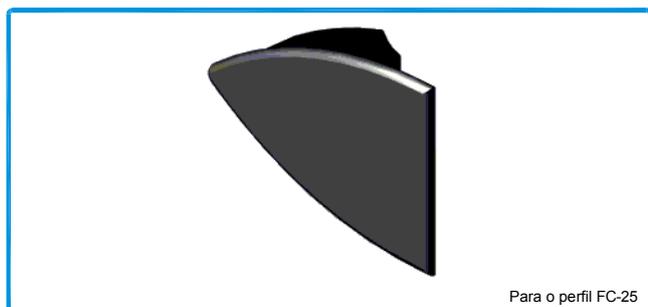
TOPO P/ TRAVESSAS TP24



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

210219

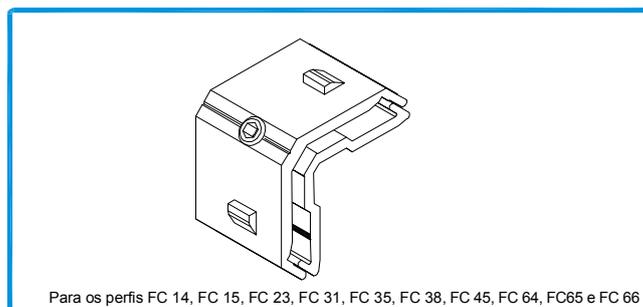
TOPO FC UNIVERSAL PRETO



Para o perfil FC-25

210232

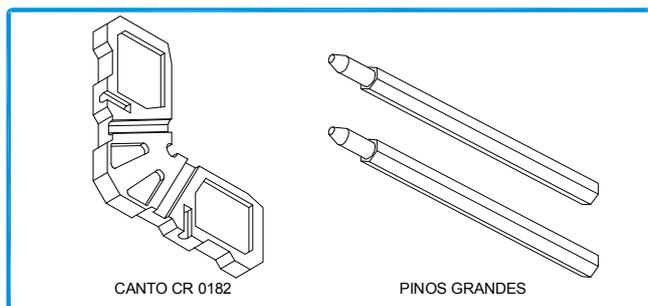
TOPO LATERAL FC-25 PRETO



Para os perfis FC 14, FC 15, FC 23, FC 31, FC 35, FC 38, FC 45, FC 64, FC65 e FC 66

204012

ESQUADRO 26-3214-135

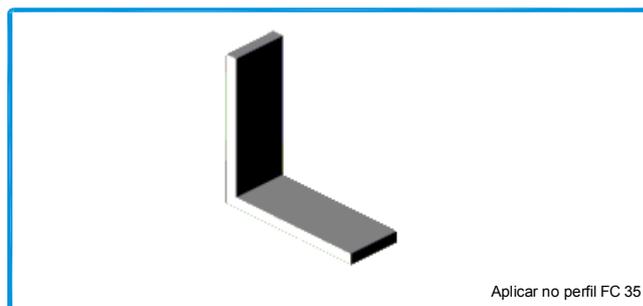


CANTO CR 0182

PINOS GRANDES

213309

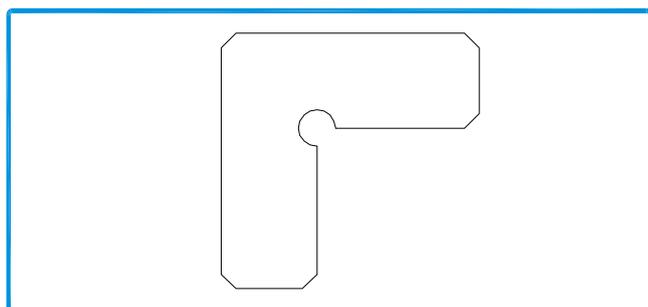
CANTO CR 0182 + PINOS GRANDES



Aplicar no perfil FC 35

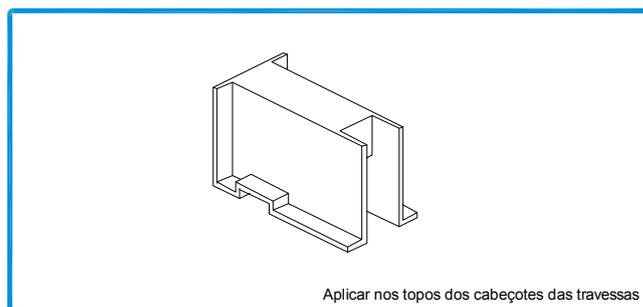
000000

CANTO CR 2005



213246

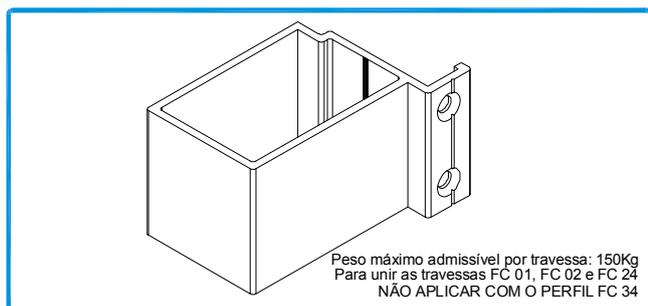
CANTO CR S/SB



Aplicar nos topos dos cabeçotes das travessas

208481

VEDANTE TRAVESSAS VT2801



Peso máximo admissível por travessa: 150Kg  
Para unir as travessas FC 01, FC 02 e FC 24  
NÃO APLICAR COM O PERFIL FC 34

232124

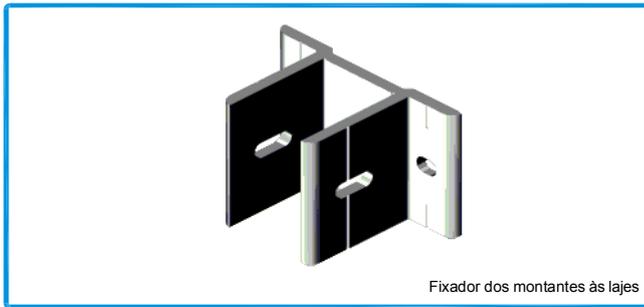
UNIÃO FRONTAL P/ TRAVESSAS UT 27



Peso máximo admissível por travessa: 350Kg  
Para unir as travessas FC 01, FC 02; FC 24, FC 34, FC 40 e FC 44

232122

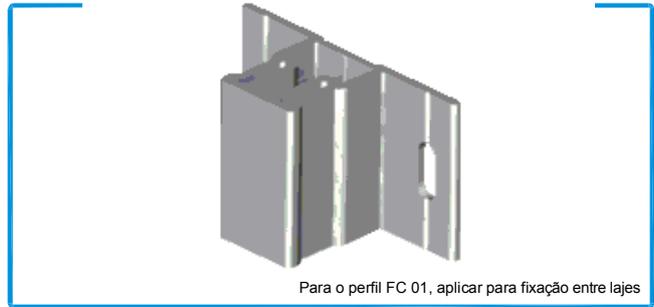
UNIÃO P/ TRAVESSAS UT2807



Fixador dos montantes às lajes

221128

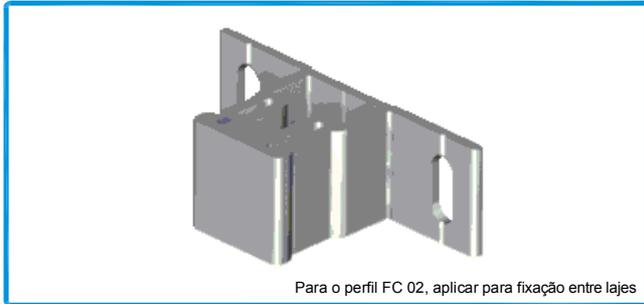
FIXADOR DE MONTANTE 2810



Para o perfil FC 01, aplicar para fixação entre lajes

221129

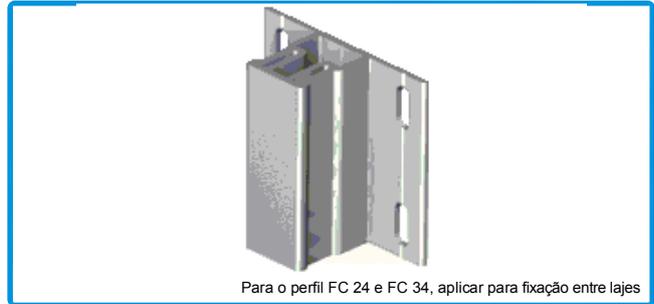
FIXADOR MONTANTE 2812 Bruto



Para o perfil FC 02, aplicar para fixação entre lajes

221304

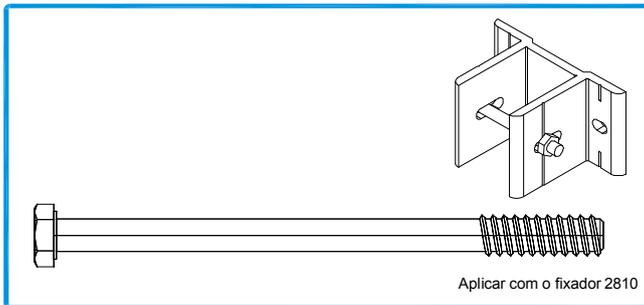
FIXADOR MONTANTE 2811 Bruto



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

221130

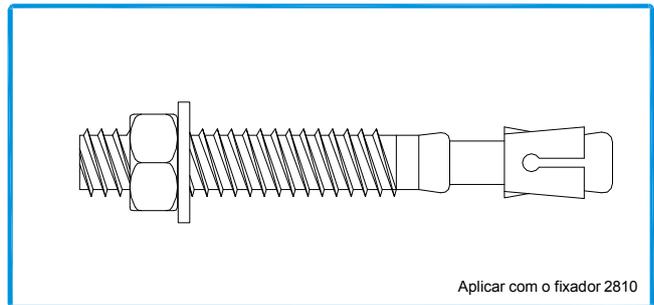
FIXADOR MONTANTE 2813 Bruto



Aplicar com o fixador 2810

290098  
290014

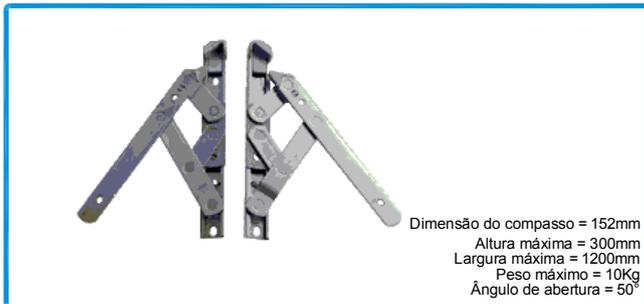
PARAFUSO PAR 100 ZINCADO  
PARAFUSO PAR 100 INOX



Aplicar com o fixador 2810

218124

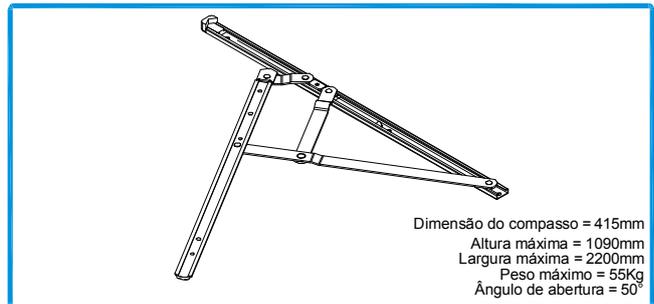
BUCHA SEGM. M8x75 PAR 101 ZINC.



Dimensão do compasso = 152mm  
Altura máxima = 300mm  
Largura máxima = 1200mm  
Peso máximo = 10Kg  
Ângulo de abertura = 50°

212030

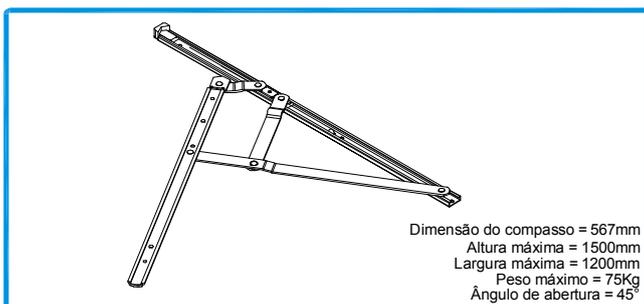
CONJ. BRAÇO PROJECTANTE S 150



Dimensão do compasso = 415mm  
Altura máxima = 1090mm  
Largura máxima = 2200mm  
Peso máximo = 55Kg  
Ângulo de abertura = 50°

212032

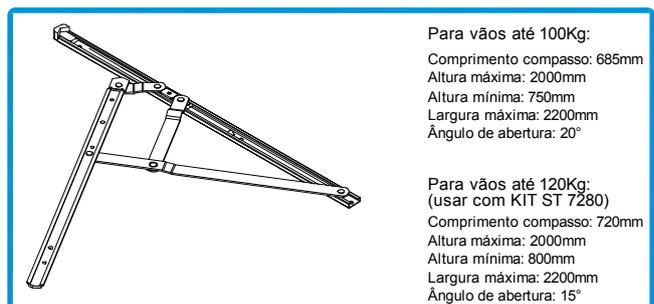
CONJ. BRAÇO PROJECTANTE S 400



Dimensão do compasso = 567mm  
Altura máxima = 1500mm  
Largura máxima = 1200mm  
Peso máximo = 75Kg  
Ângulo de abertura = 45°

212034

CONJ. BRAÇO PROJECTANTE S 550



Para vãos até 100Kg:  
Comprimento compasso: 685mm  
Altura máxima: 2000mm  
Altura mínima: 750mm  
Largura máxima: 2200mm  
Ângulo de abertura: 20°

Para vãos até 120Kg:  
(usar com KIT ST 7280)  
Comprimento compasso: 720mm  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm  
Ângulo de abertura: 15°

212021  
223007

CONJ. BRAÇO PROJECTANTE ST 26  
KIT AJUSTÁVEL ST280



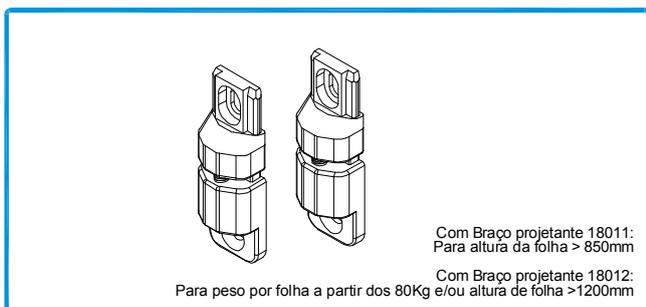
Para vãos até 130Kg  
 Para janelas projetantes deslizantes  
 Altura máxima: 2200mm  
 Altura mínima: 1200mm  
 Largura máxima: 2200mm  
 Largura mínima: 500mm  
 Ângulo de abertura: 20°/10° (com limitador de abertura)

212218 CONJ. BRAÇO PROJECTANTE 18012



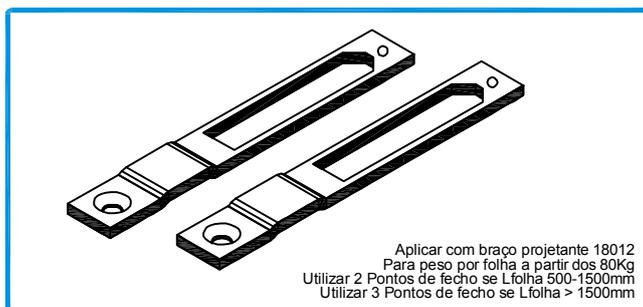
Para vãos até 80Kg  
 Para janelas projetantes deslizantes  
 Compasso com limitação de abertura incluída  
 Ângulo de abertura: 30°/25° (com limitação de abertura)  
 Largura folha: 500-1500mm  
 Altura folha: 500-1200mm

212228 CONJUNTO BRAÇO PROJECTANTE 18011



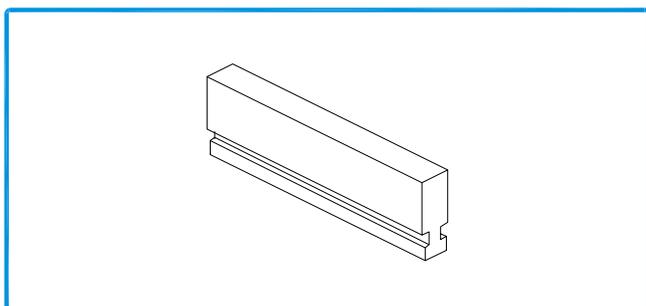
Com Braço projetante 18011:  
 Para altura da folha > 850mm  
 Com Braço projetante 18012:  
 Para peso por folha a partir dos 80Kg e/ou altura de folha >1200mm

223251 KIT ALTURA AJUSTÁVEL 18012



Aplicar com braço projetante 18012  
 Para peso por folha a partir dos 80Kg  
 Utilizar 2 Pontos de fecho se Lfolha 500-1500mm  
 Utilizar 3 Pontos de fecho se Lfolha > 1500mm

212219 CONJ. LIMITADOR DE ABERTURA BRAÇO PROJ. 18012



228103 LIMITADOR DISTÂNCIA LD001



Aplicar nos sistemas FC - semi oculto e oculto

215142 PEÇA FIXAÇÃO FRONTAL 2825



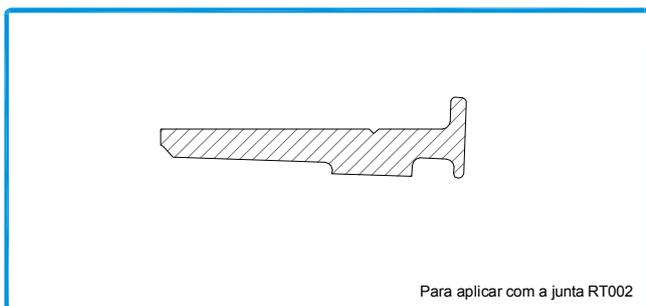
Aplicar nos sistemas FC - semi oculto e oculto

212080 CONJ. FIXAÇÃO LAT. 2824



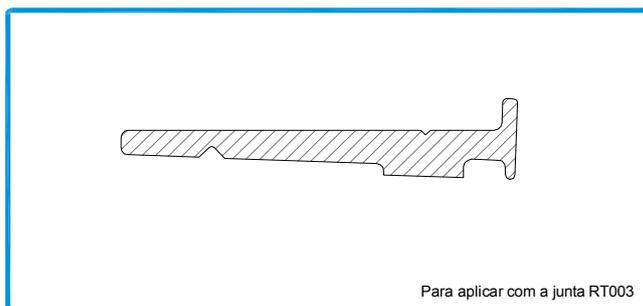
Aplicar nos sistemas FC - semi oculto e oculto

212078 CONJ. FIXAÇÃO INF. 2823



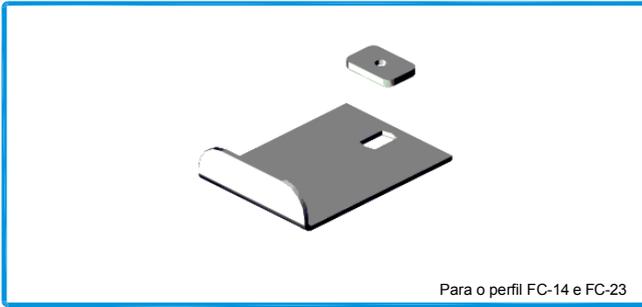
Para aplicar com a junta RT002

230012 SUPORTE FC AUTO-PORTANTE 002



Para aplicar com a junta RT003

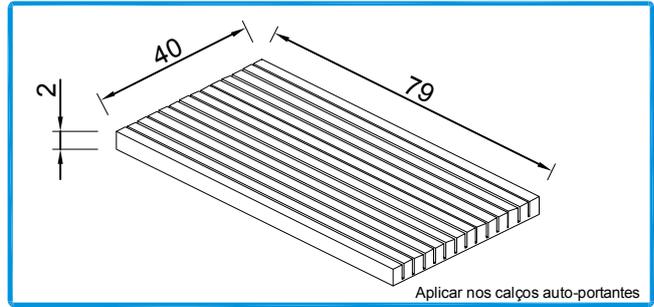
230013 SUPORTE FC AUTO-PORTANTE 003



Para o perfil FC-14 e FC-23

230280

SUPOORTE INOX FO



Aplicar nos calços auto-portantes

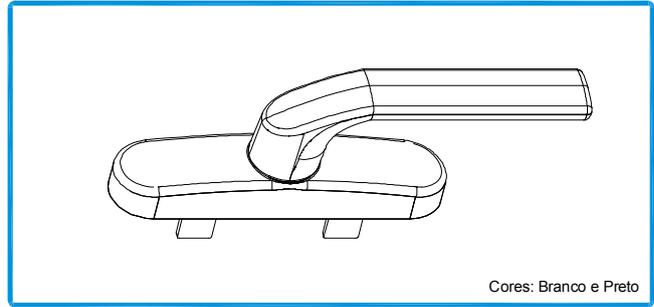
218113

CALÇO PARA VIDRO 79X40X2



213016

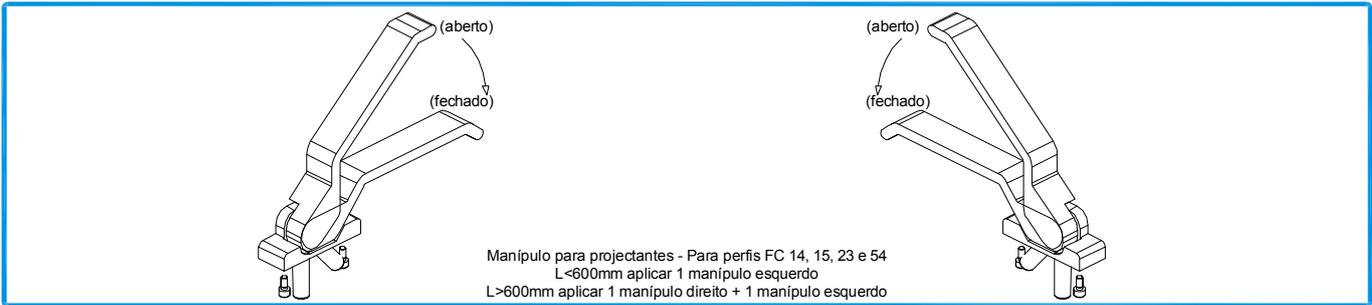
CANTO REENVIO 9312



Cores: Branco e Preto

200143

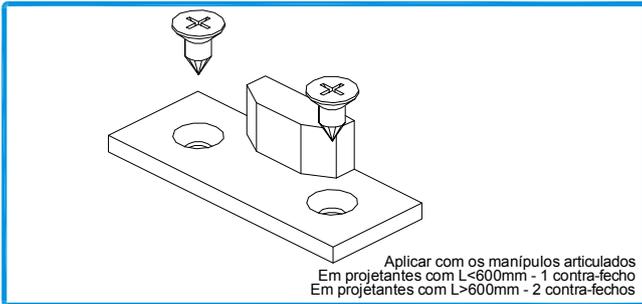
CREMONE 620M 27



Manípulo para projectantes - Para perfis FC 14, 15, 23 e 54  
L<600mm aplicar 1 manípulo esquerdo  
L>600mm aplicar 1 manípulo direito + 1 manípulo esquerdo

416003  
416004

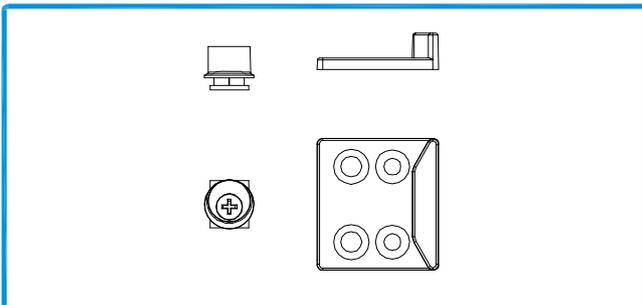
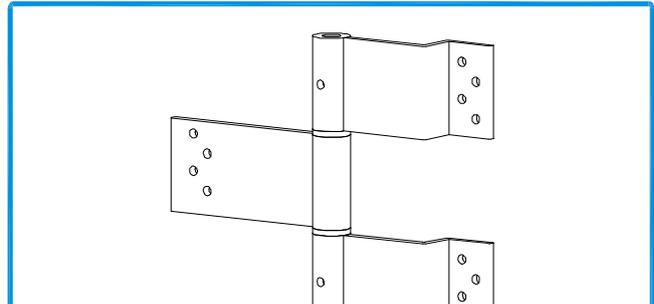
MANÍPULO ARTICULADO i33 DIR.  
MANÍPULO ARTICULADO i33 ESQ.



Aplicar com os manípulos articulados  
Em projectantes com L<600mm - 1 contra-fecho  
Em projectantes com L>600mm - 2 contra-fechos

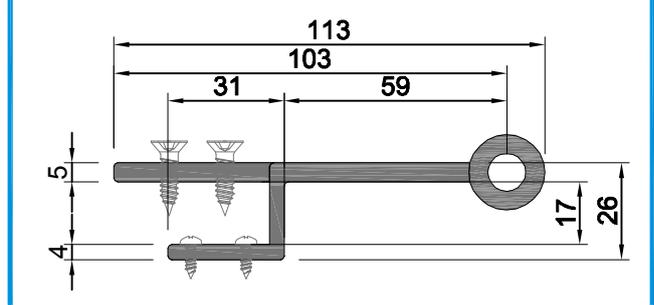
202088

CONTRA FECHO 5708



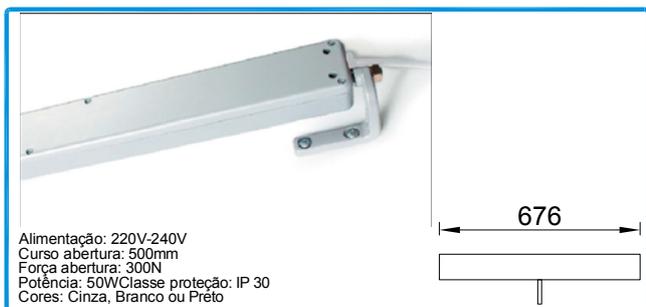
212229

CONJ. PONTO FECHO SUPLEMENTAR 9313



202234

DOBRADIÇA INOX PARA SÉRIE FC



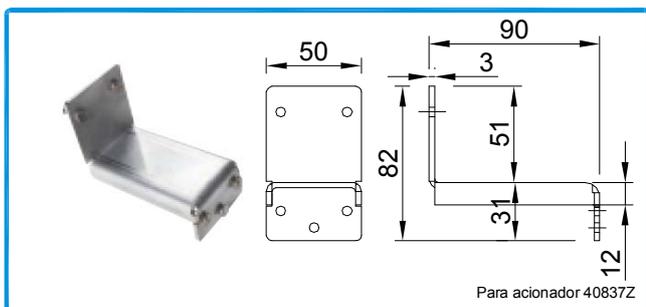
212640

ACIONADOR 40837Z



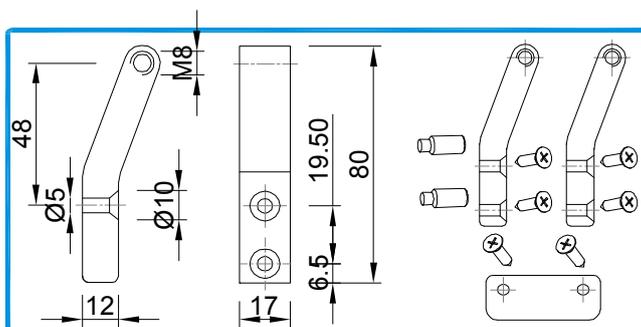
212036

ACIONADOR ELÉCTRICO DUPLO 240Vac 40989D(Nat.)



230018

SUPORTE PARA MOTOR 40858U



223469

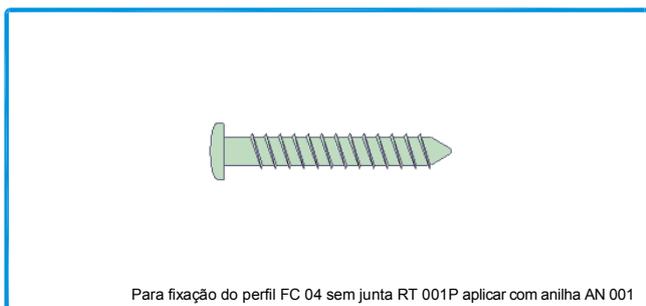
223471

223472

KIT FIXAÇÃO ACIONADOR 40941H (Cinz.)

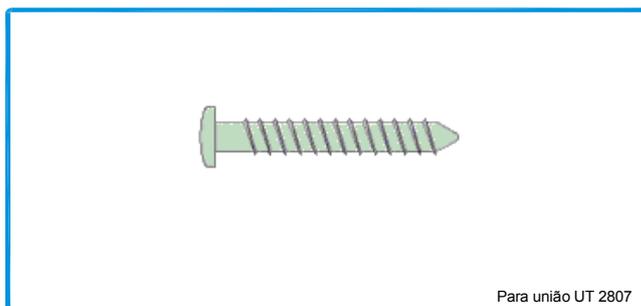
KIT FIXAÇÃO ACIONADOR 40942I (Pr.)

KIT FIXAÇÃO ACIONADOR 40943J (Br.)



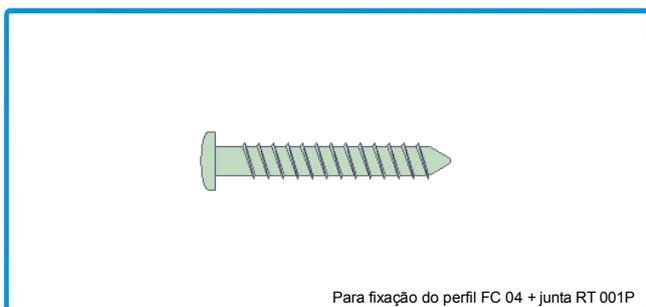
290226

PARAFUSO PAR 004 PK INOX PH 7/8x12 CQ



290260

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



290165

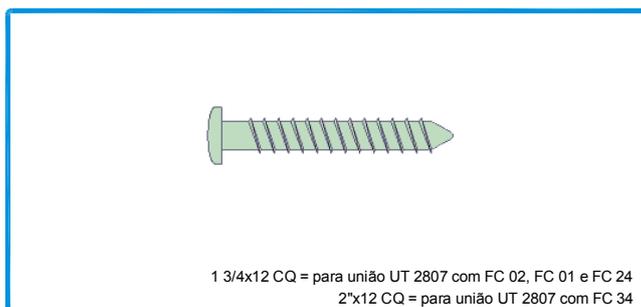
290262

217104

PARAFUSO PK INOX PH 1 1/4x10 CQ

PAR. PAR 003 PK INOX PH 1 1/2x10 CQ

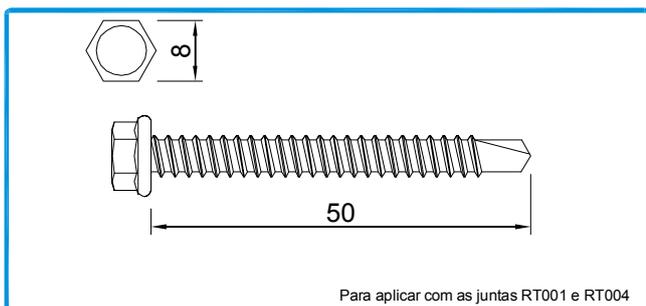
ANILHA COLADA 6.3 AN 001 INOX



290264

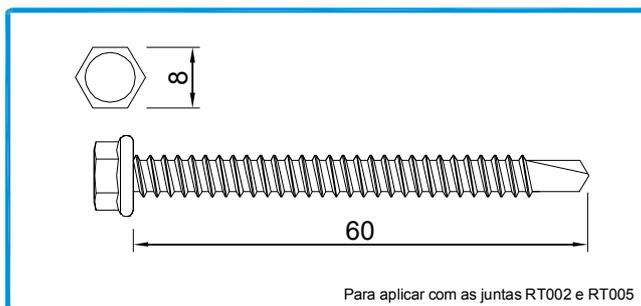
PARAFUSO PAR 005 PK 1 3/4x12 CQ

PARAFUSO PK INOX PH 2"x12 CQ



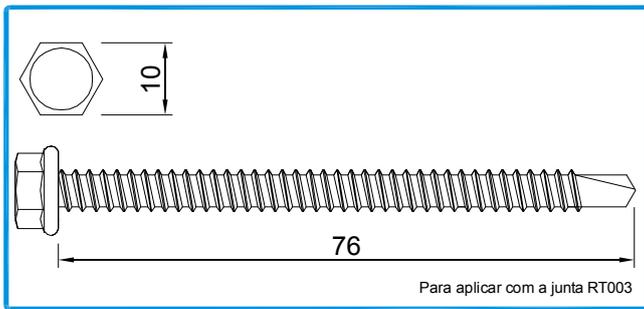
290459

REF.º PARAFUSO DIN 7504 5.5x50 Dmet



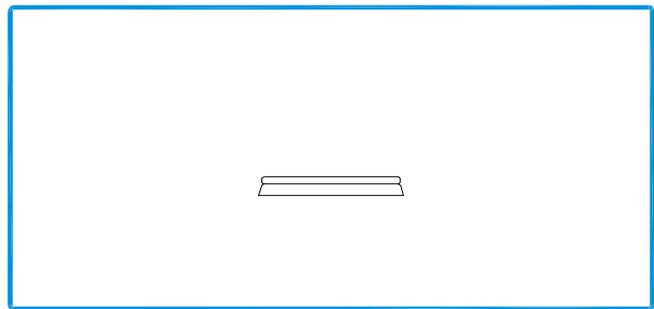
290460

REF.º PARAFUSO DIN 7504 5.5x60 Dmet



290461

REF.º PARAFUSO DIN 7504 6.3x76 Dmet



217104

ANILHA AN 001



208019

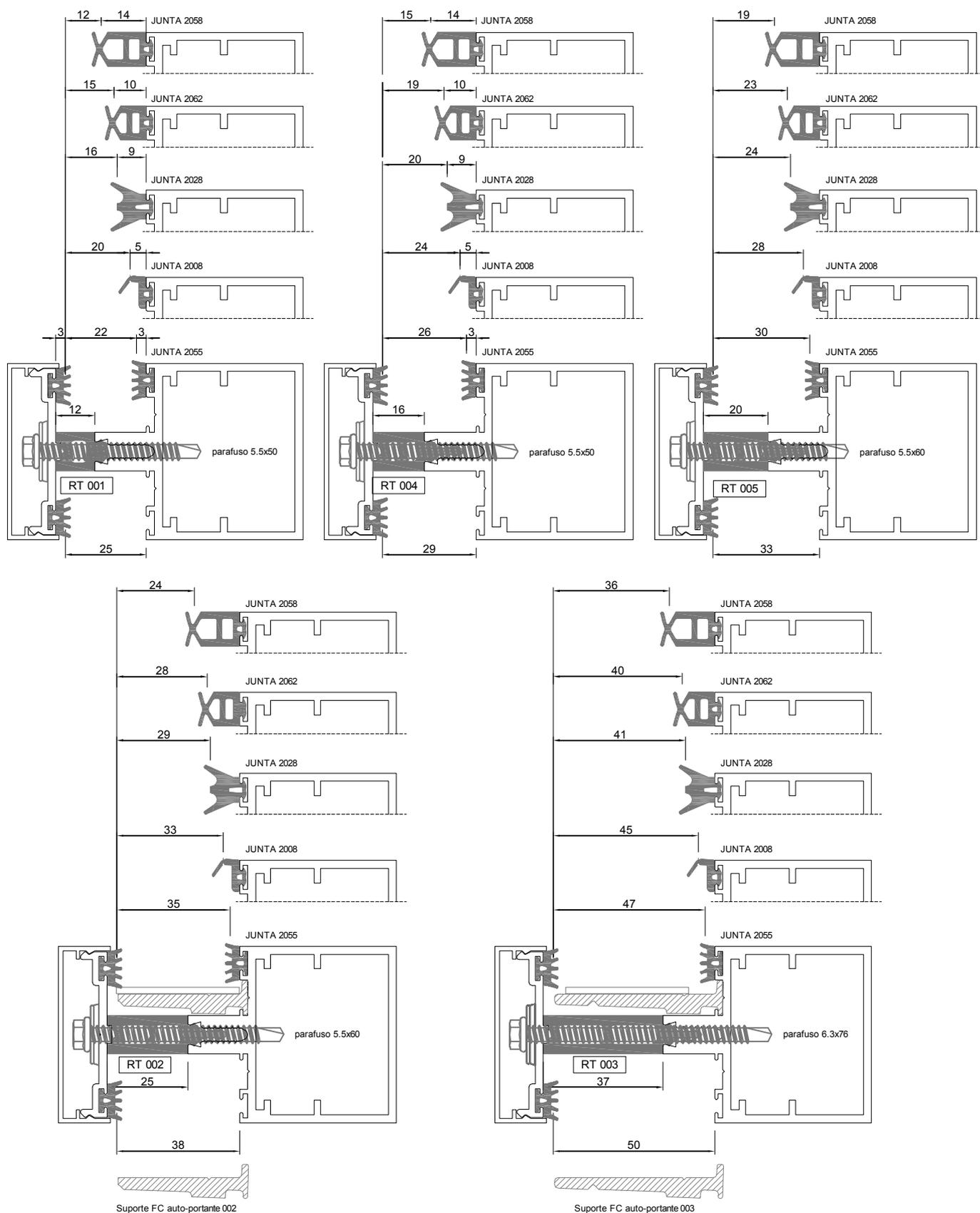
SELA JUNTAS 150gr. (Cinza)



208704

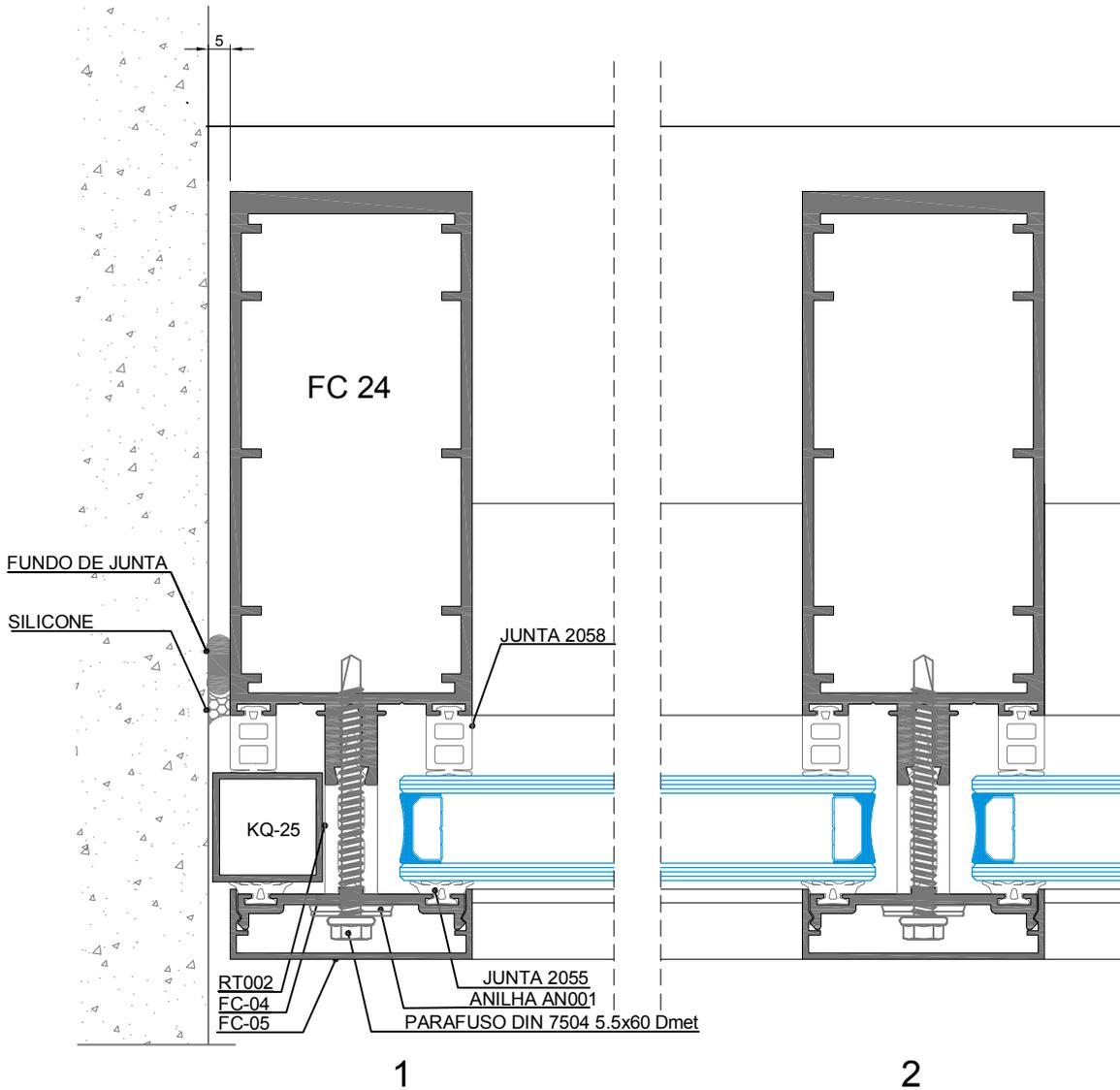
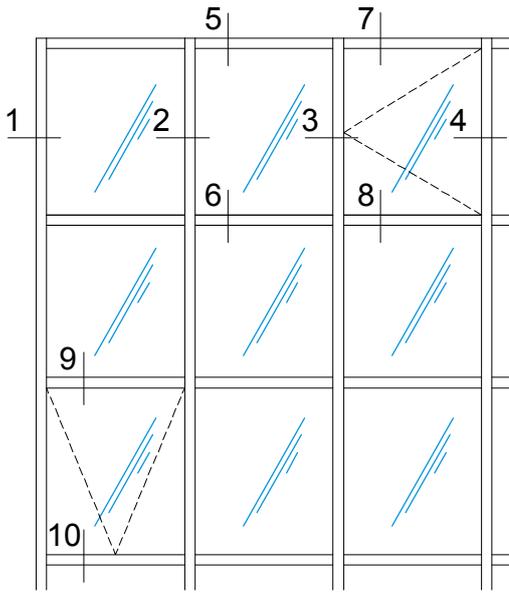
PRODUTO LIMPEZA DE ALUMÍNIO (1L) Transparente

MAPA DE ENCHIMENTOS PARA FACHADA ESTRUTURAL COM AS JUNTAS RT

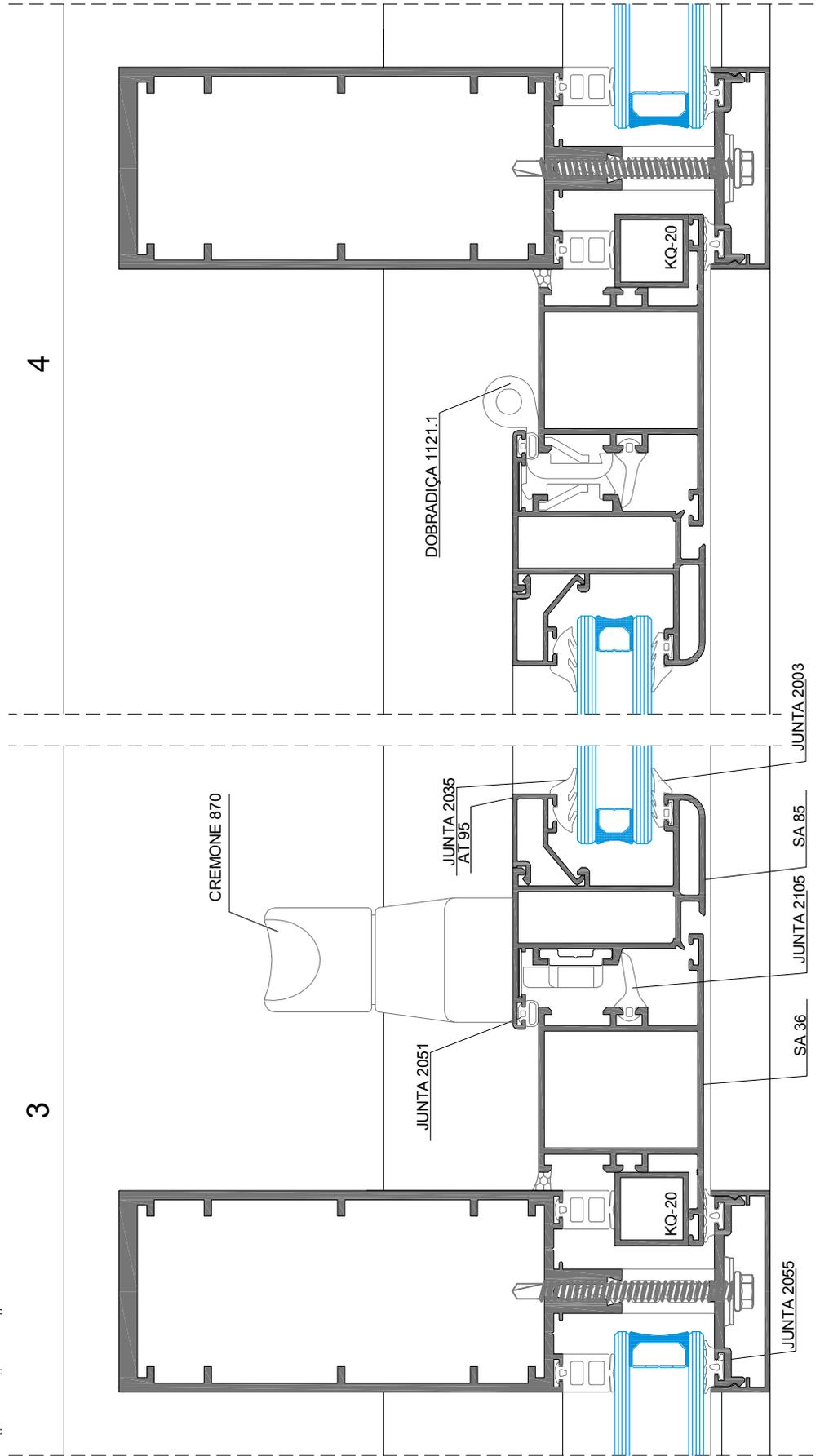
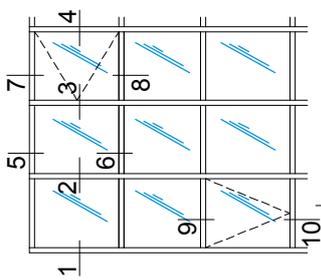


Nota: Na utilização das juntas RT002 ou RT003 aplicar os suportes FC auto-portantes para suporte dos vidros juntamente com o calço para vidro 79x40x2mm

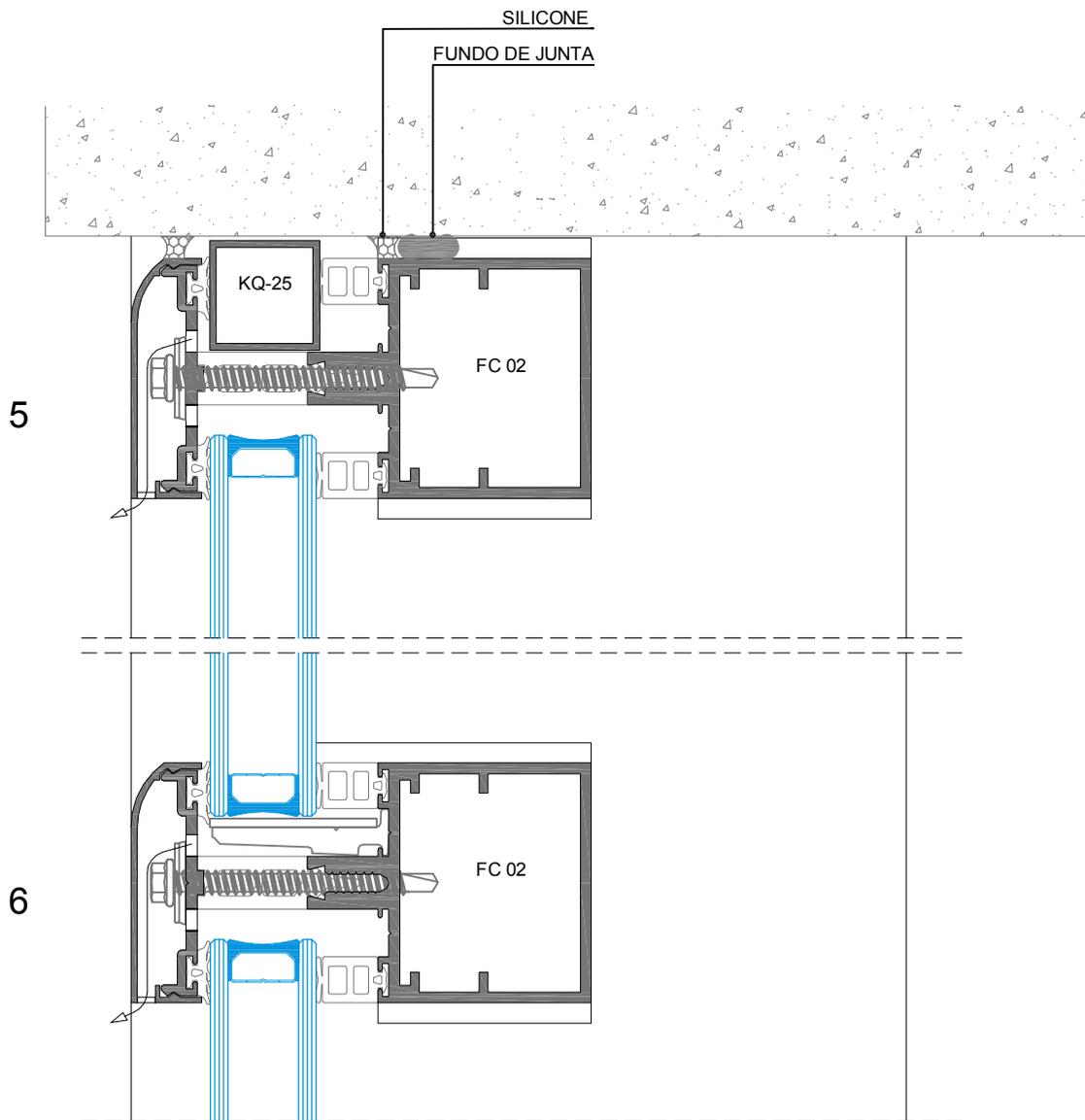
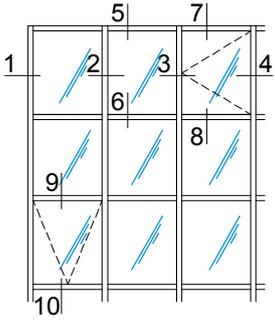
FACHADA ESTRUTURAL: PORMENORES 1 E 2



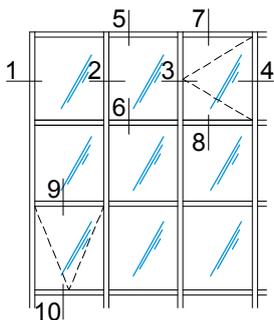
FACHADA ESTRUTURAL: PORMENORES 3 E 4



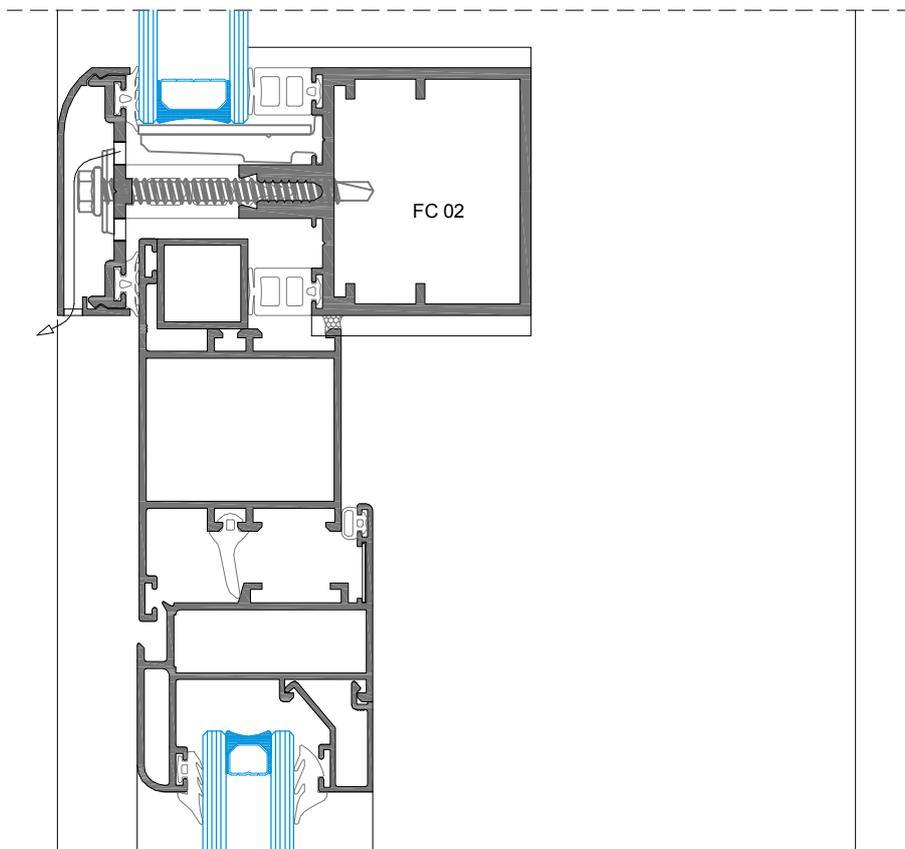
## FACHADA ESTRUTURAL: PORMENORES 5 E 6



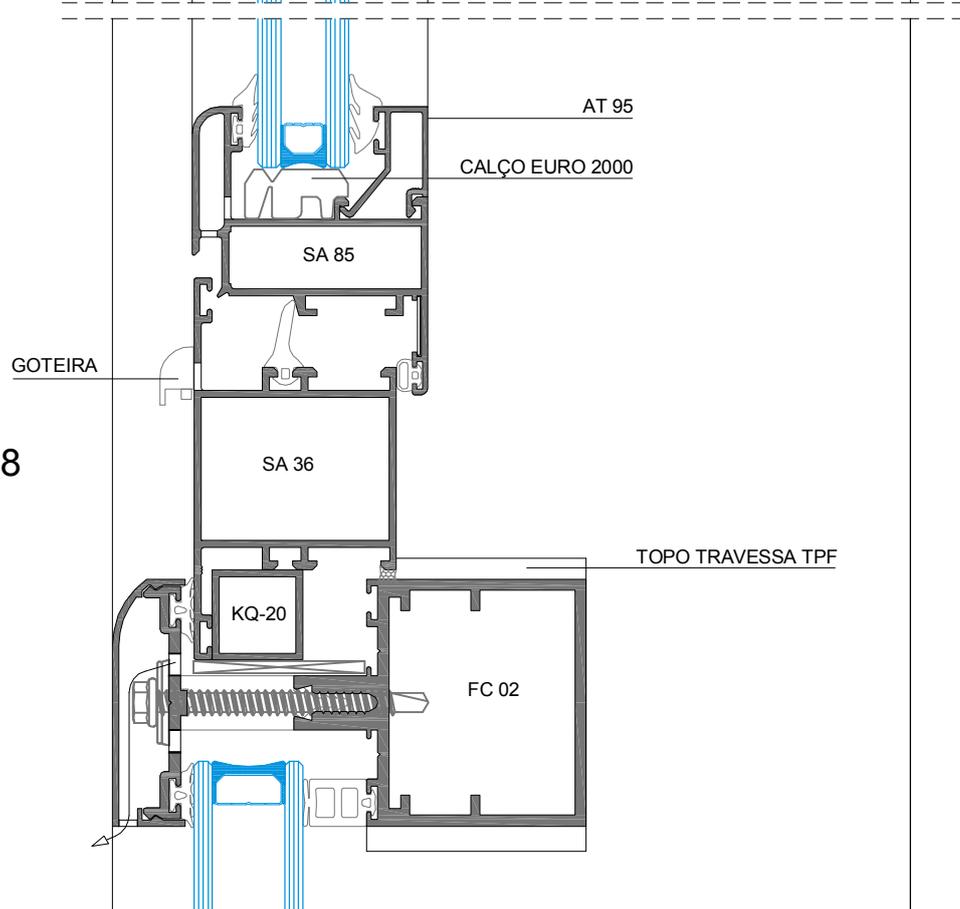
FACHADA ESTRUTURAL: PORMENORES 7 E 8  
COM VÃO OSCILO-BATENTE



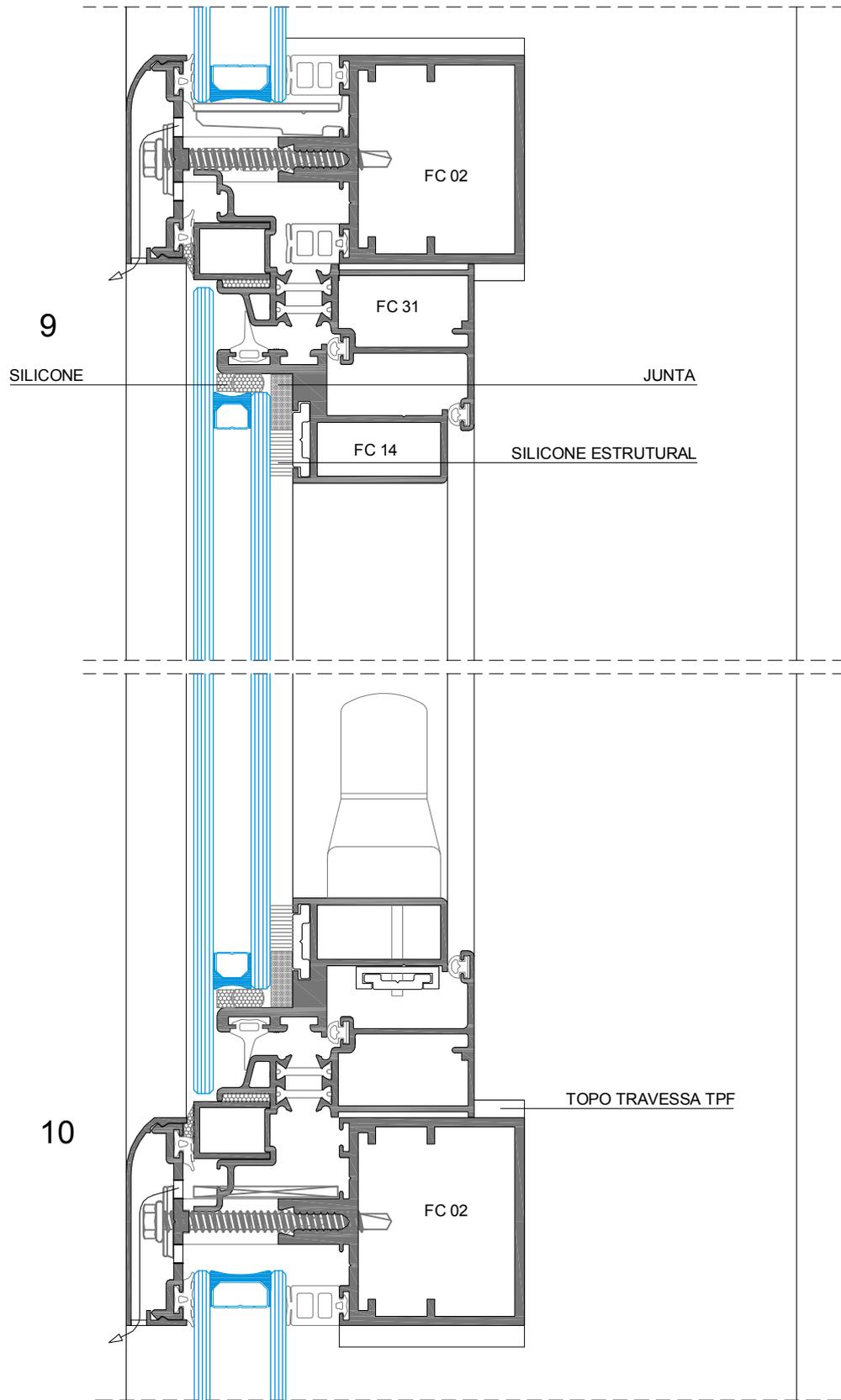
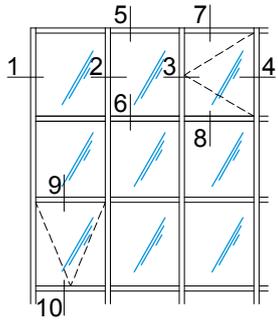
7



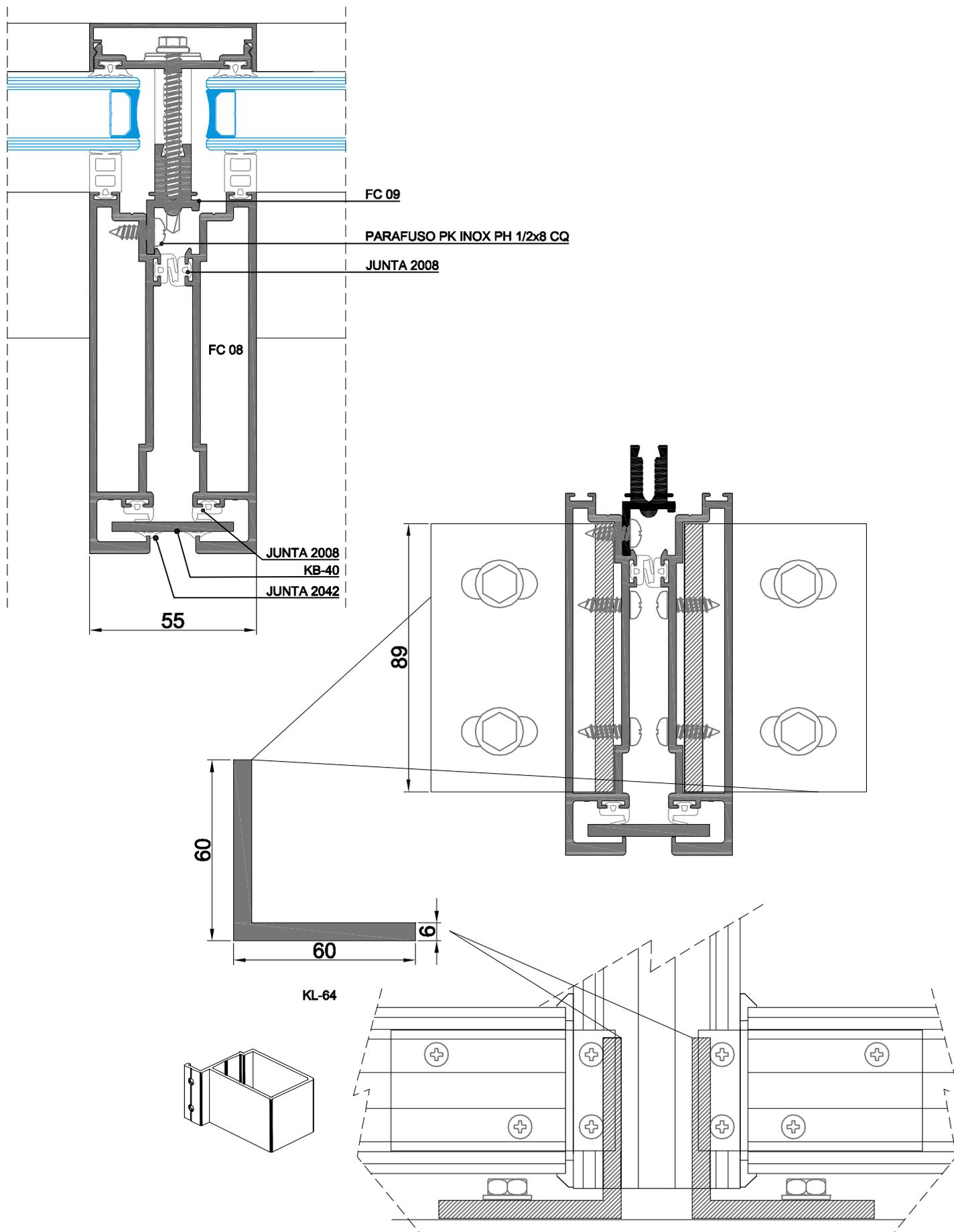
8



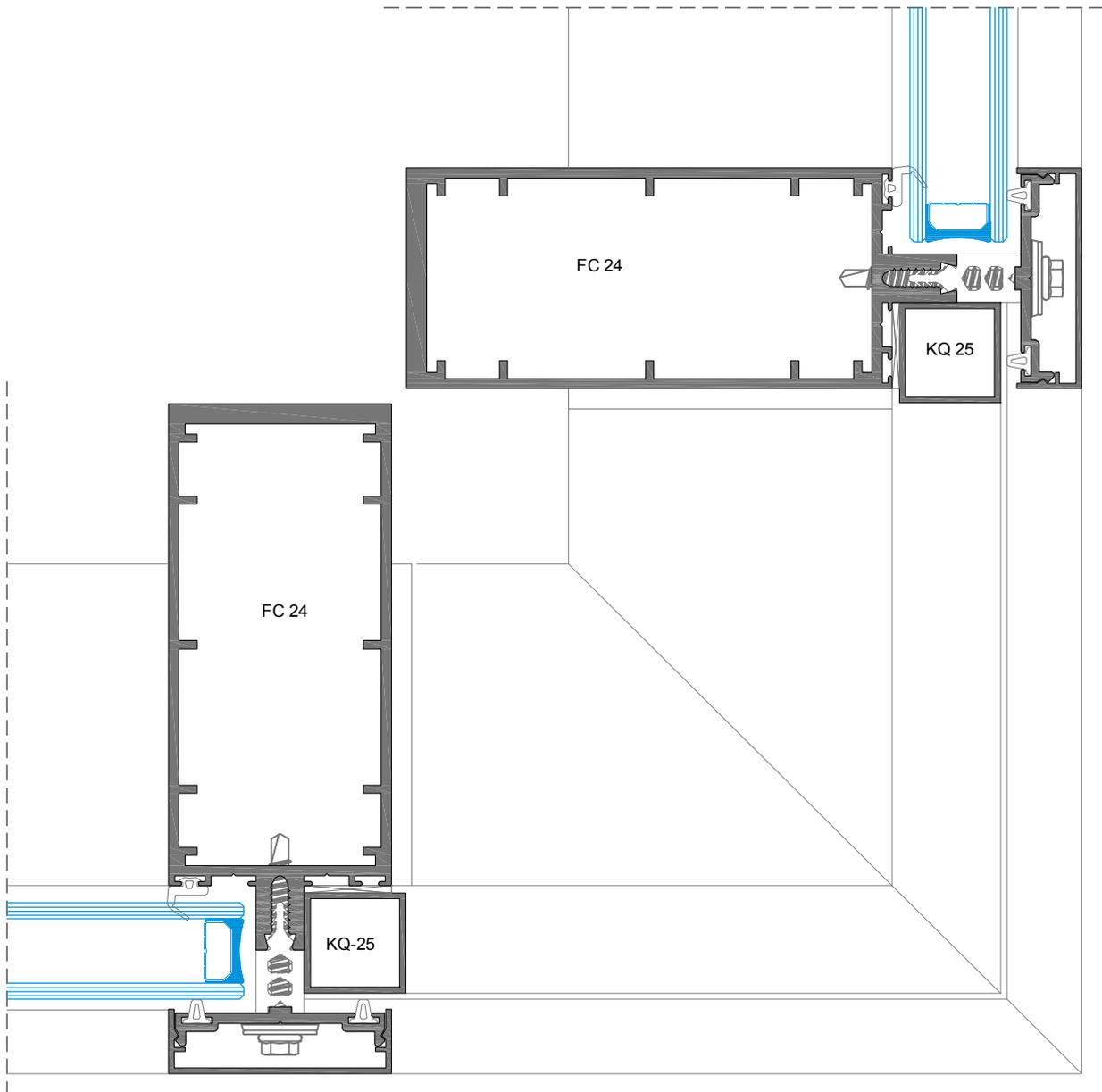
## FACHADA ESTRUTURAL: PORMENORES 9 E 10 COM VÃO PROJECTANTE



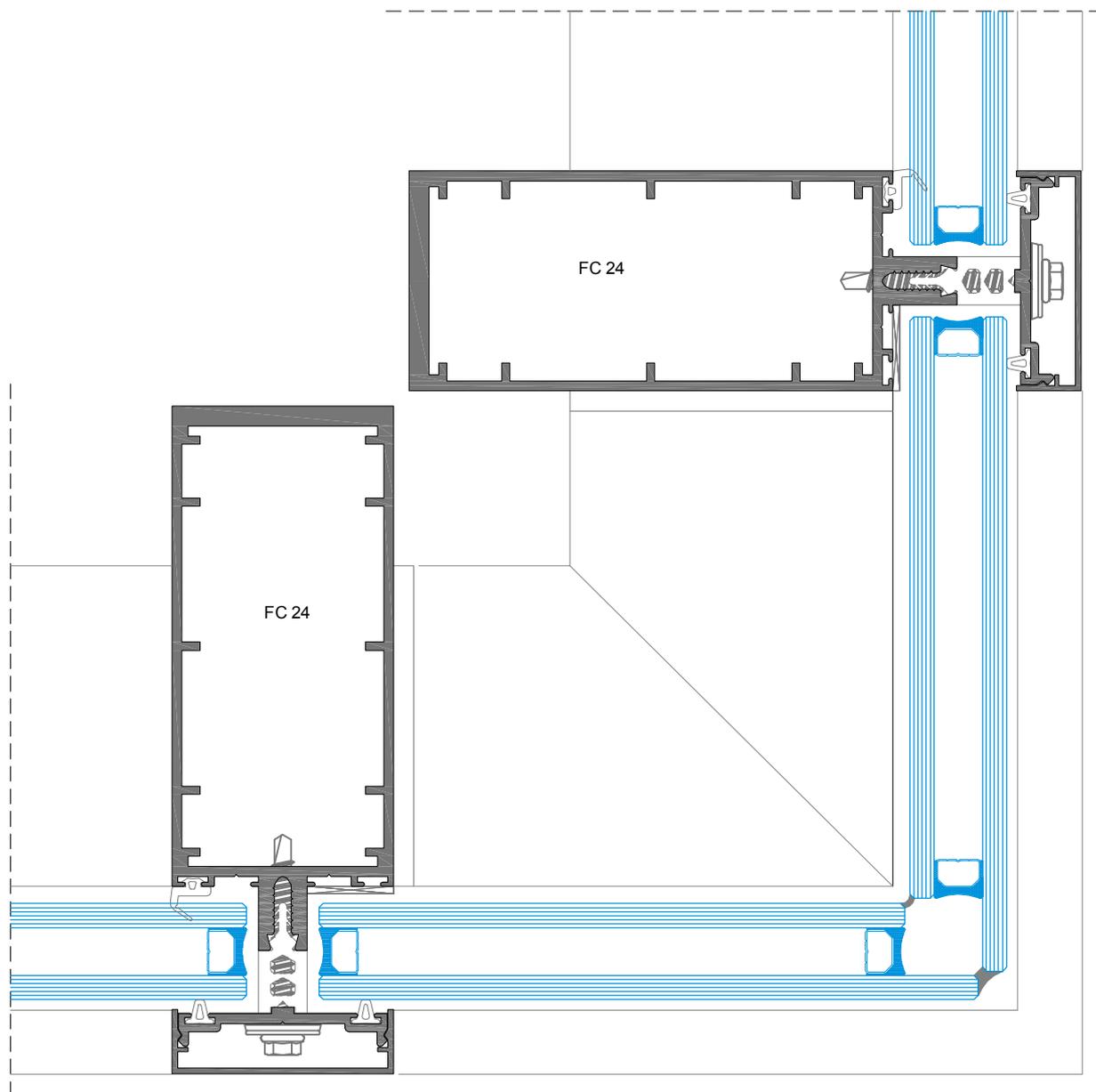
FACHADA ESTRUTURAL: APLICAÇÃO DOS PERFIS PARA JUNTA DE DILATAÇÃO COM FIXAÇÃO ENTRE LAJE



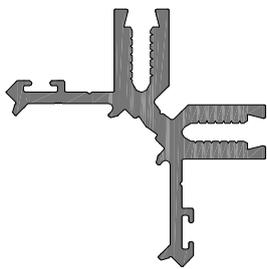
FACHADA ESTRUTURAL: CANTO 90°



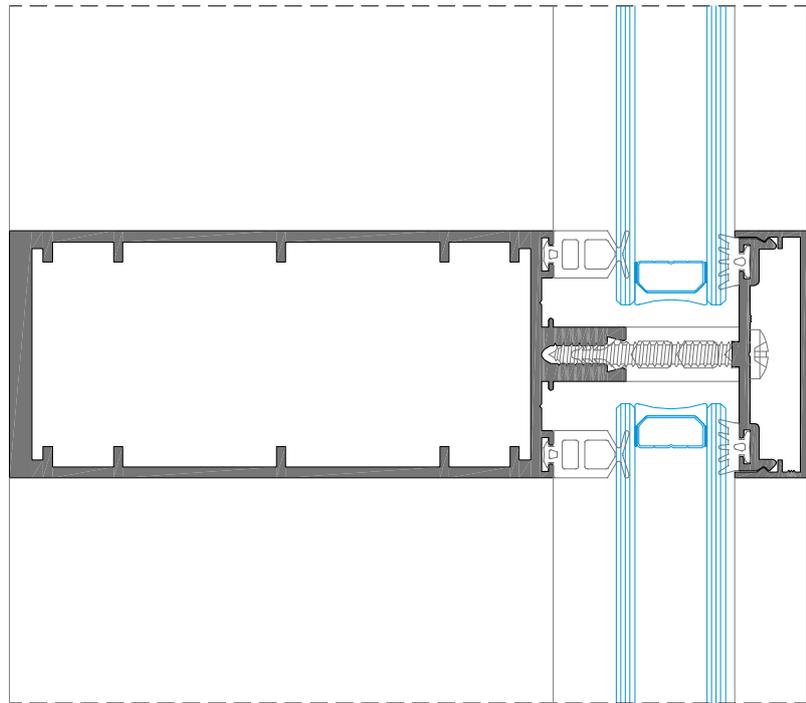
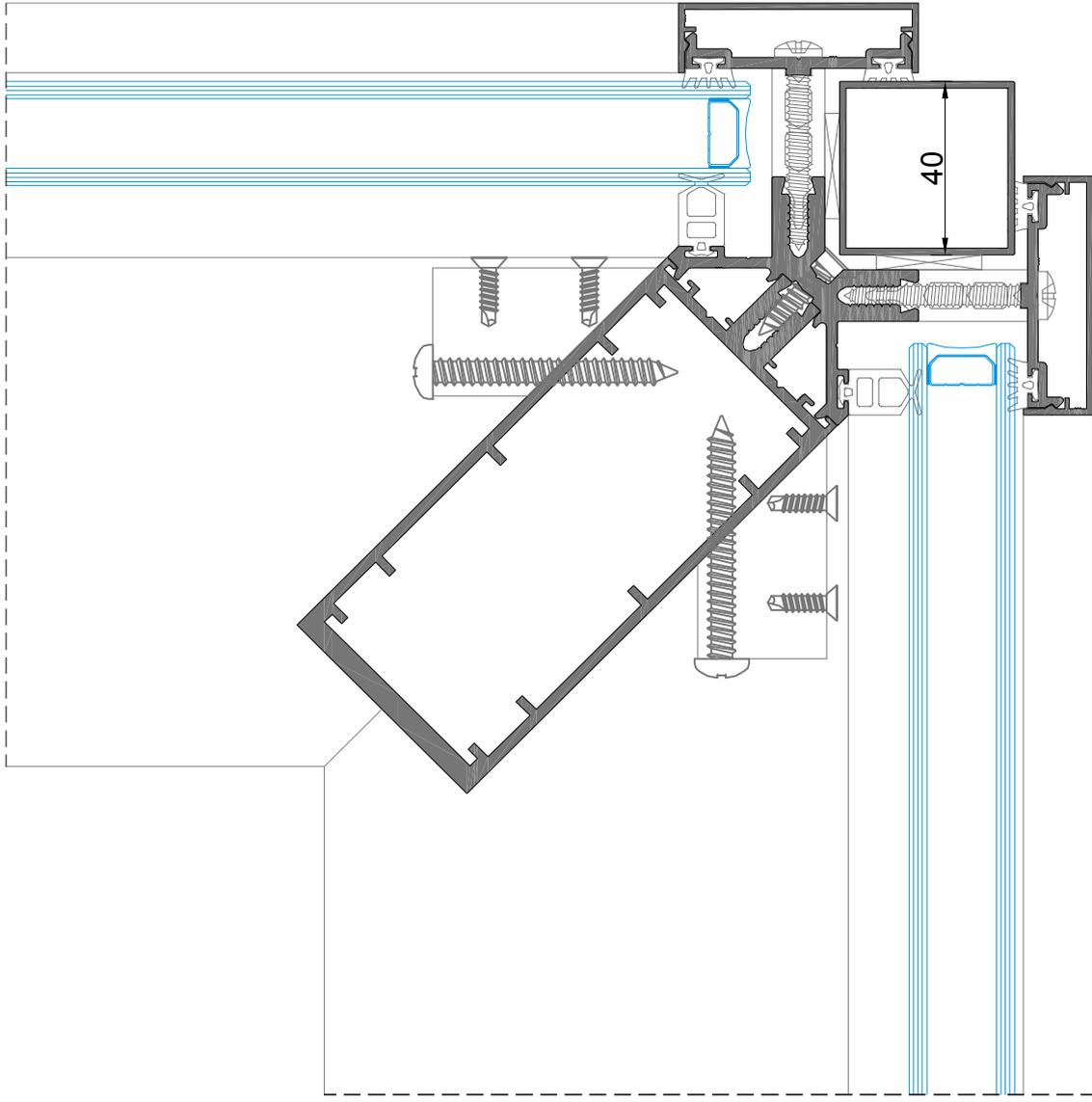
FACHADA ESTRUTURAL: CANTO 90°



FACHADA ESTRUTURAL: CANTO 90° - COM PERFIL FC 42

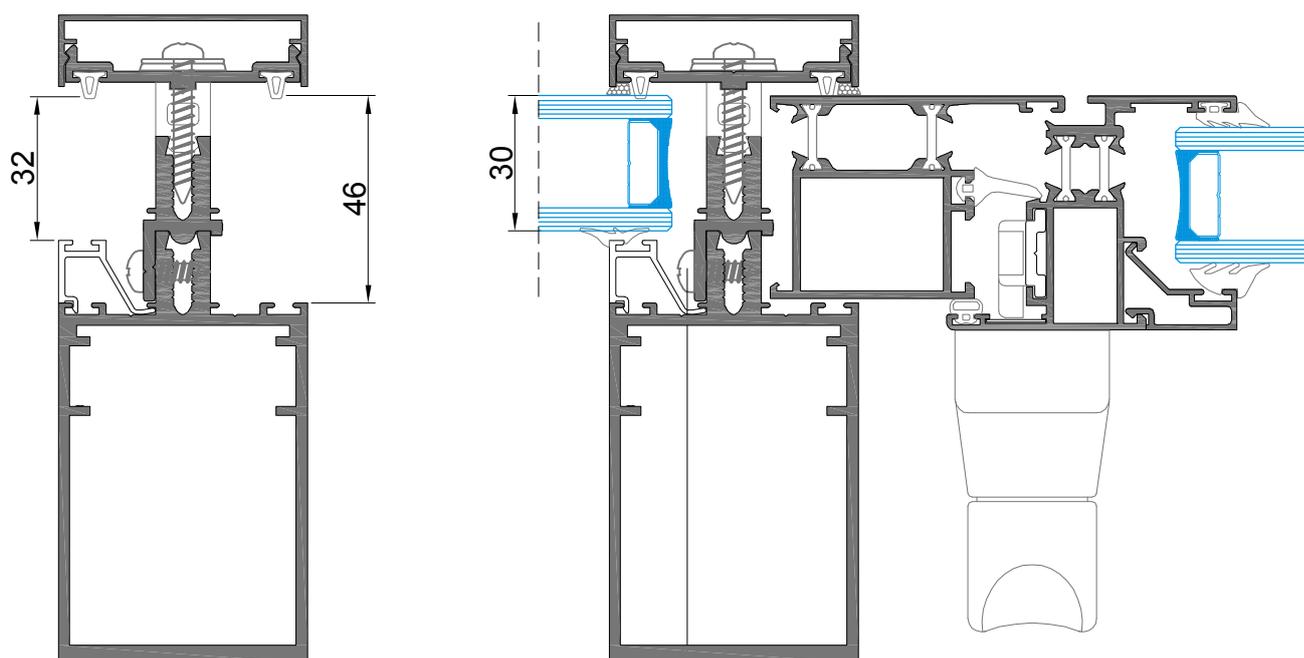


FC 42



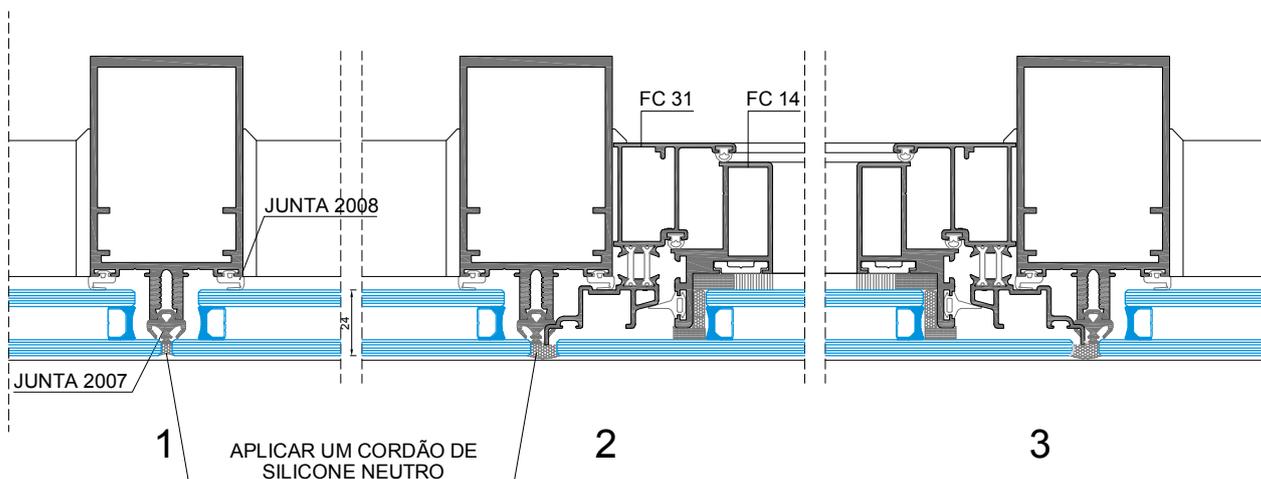
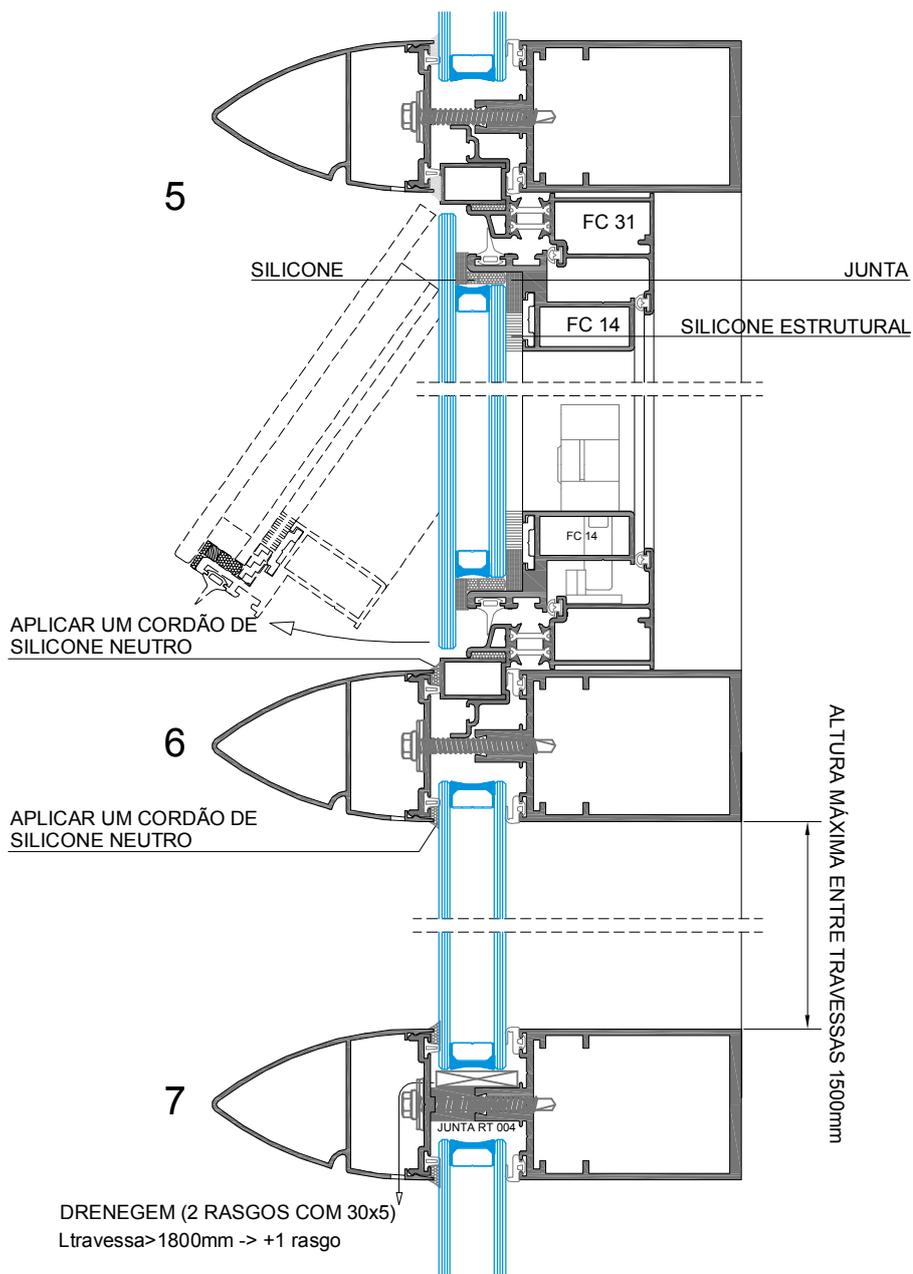
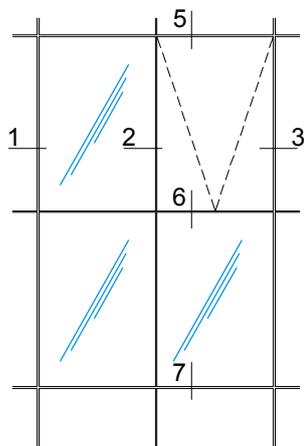
## FACHADA ESTRUTURAL: APLICAÇÃO DO PERFIL FC 09 EM FACHADA ESTRUTURAL PARA AUMENTAR COTA DE ENCHIMENTO

NÃO PERMITE APLICAR FOLHA PROJECTANTE OCULTA



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

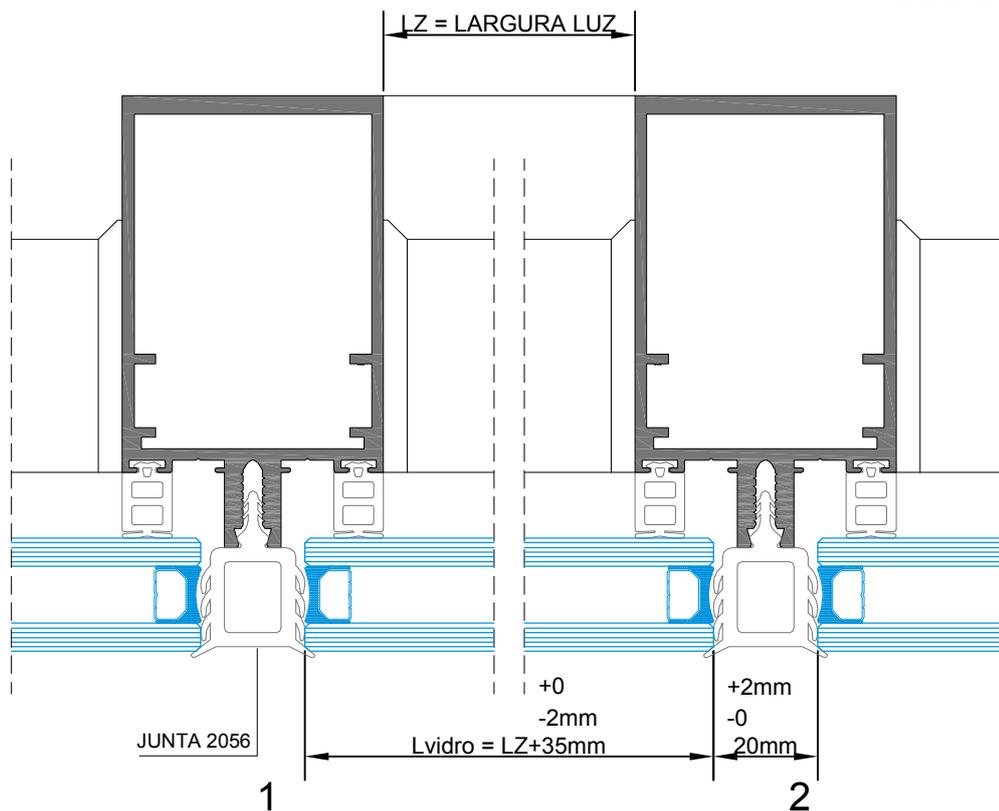
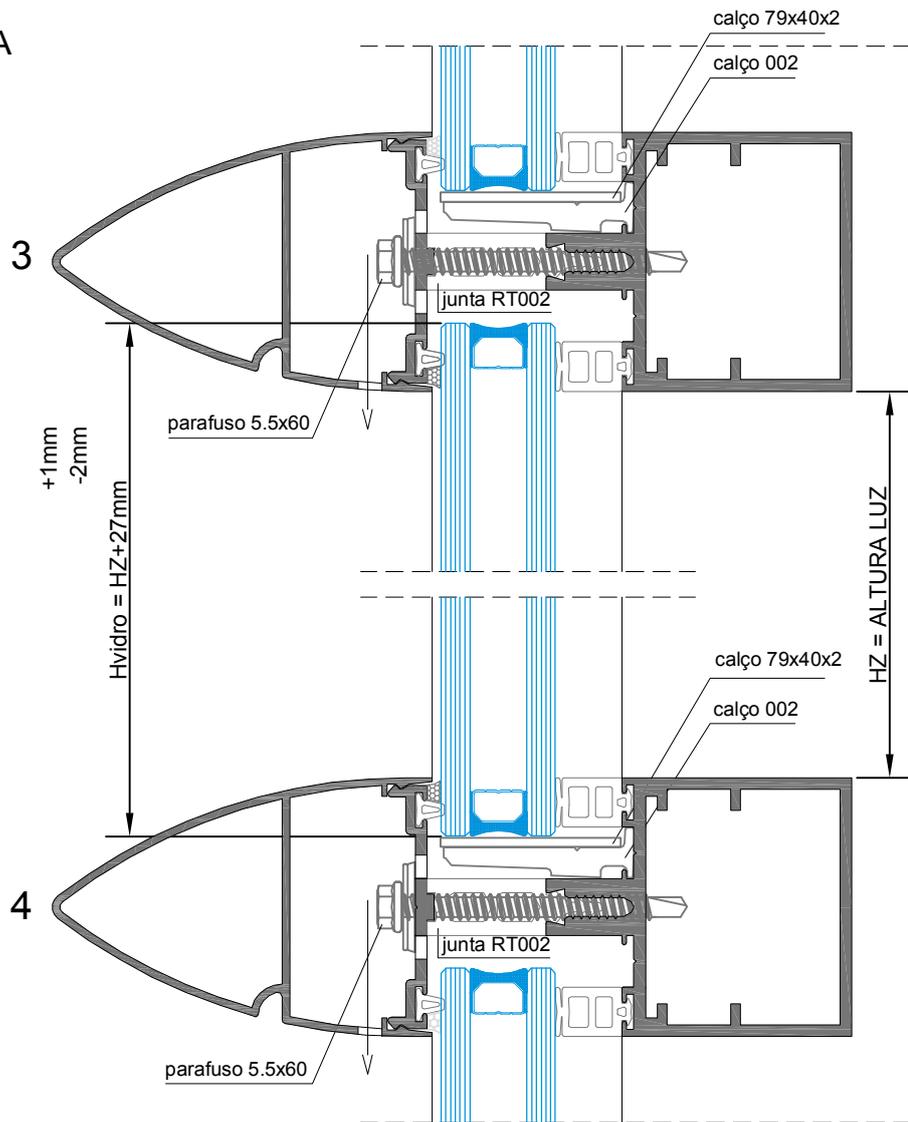
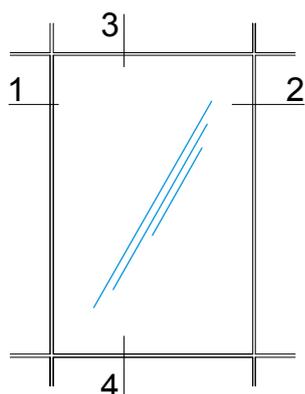
## FC-HORIZONTE COM JANELA PROJECTANTE OCULTA: SISTEMA CONVENCIONAL COM VIDRO DUPLO DE 24mm ESPESSURA TOTAL



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.

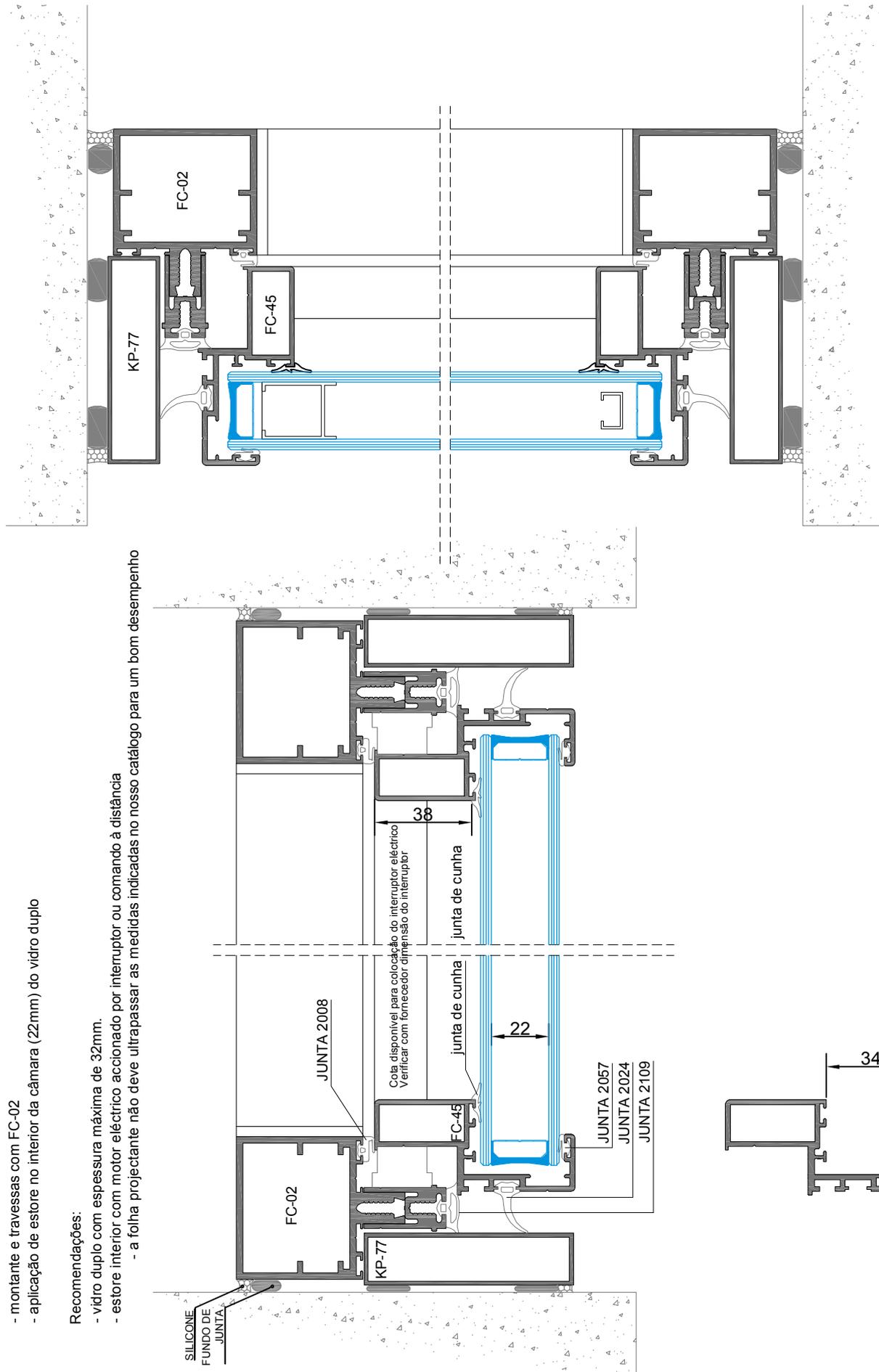
FC-SEMI-OCULTA COM ESTORE INTERIOR DE VIDRO

Pormenor:

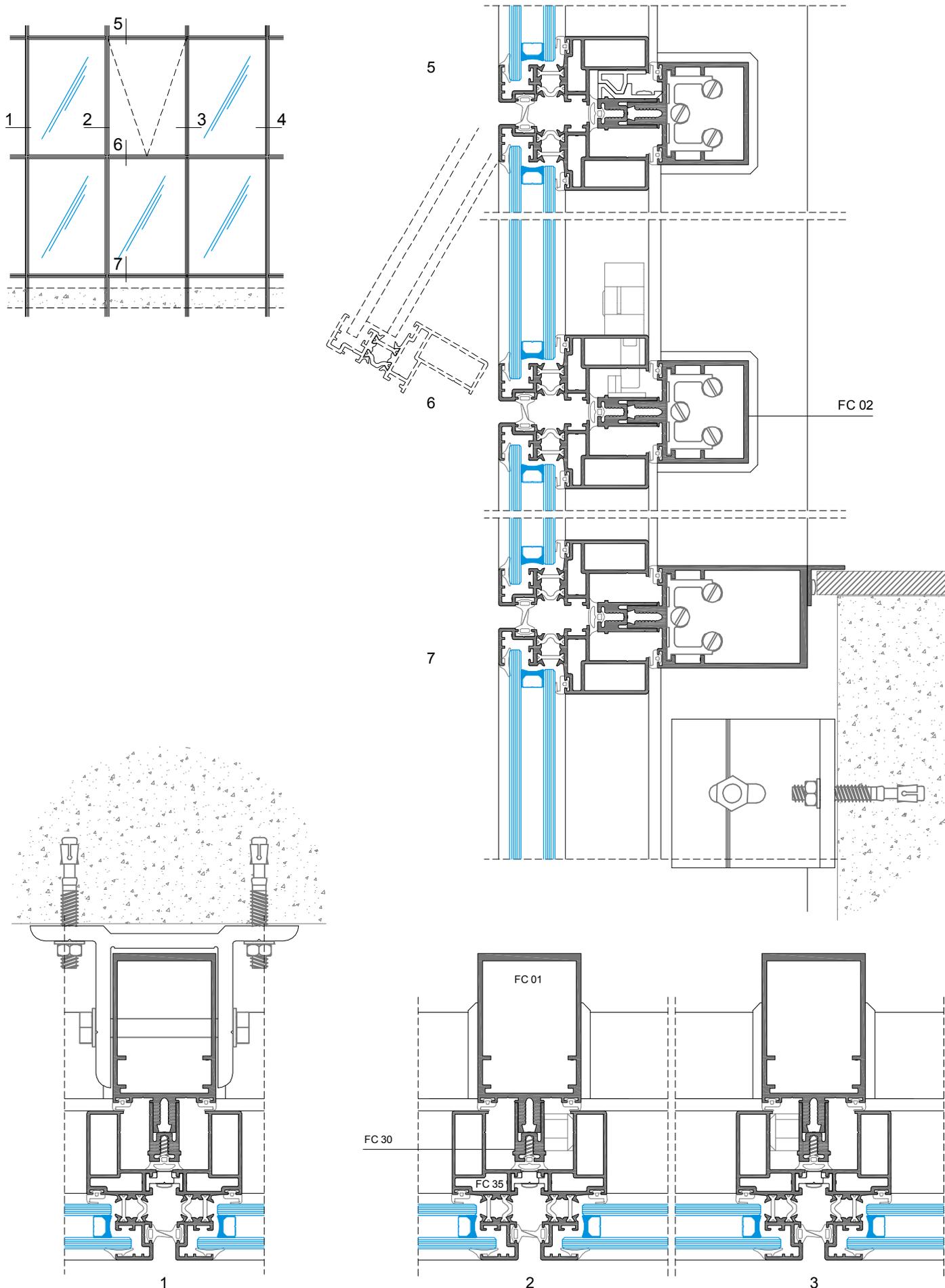
- montante e travessas com FC-02
- aplicação de estore no interior da câmara (22mm) do vidro duplo

Recomendações:

- vidro duplo com espessura máxima de 32mm.
- estore interior com motor eléctrico accionado por interruptor ou comando à distância
- a folha projectante não deve ultrapassar as medidas indicadas no nosso catálogo para um bom desempenho

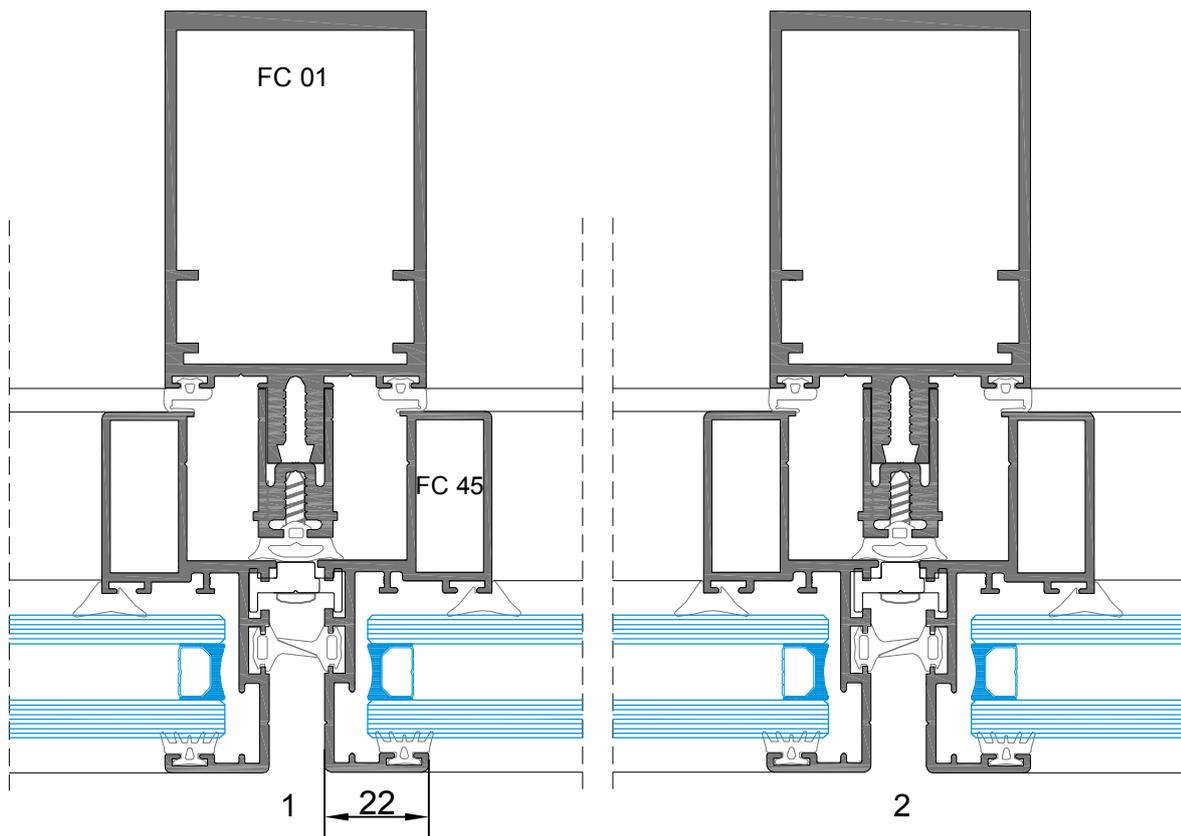
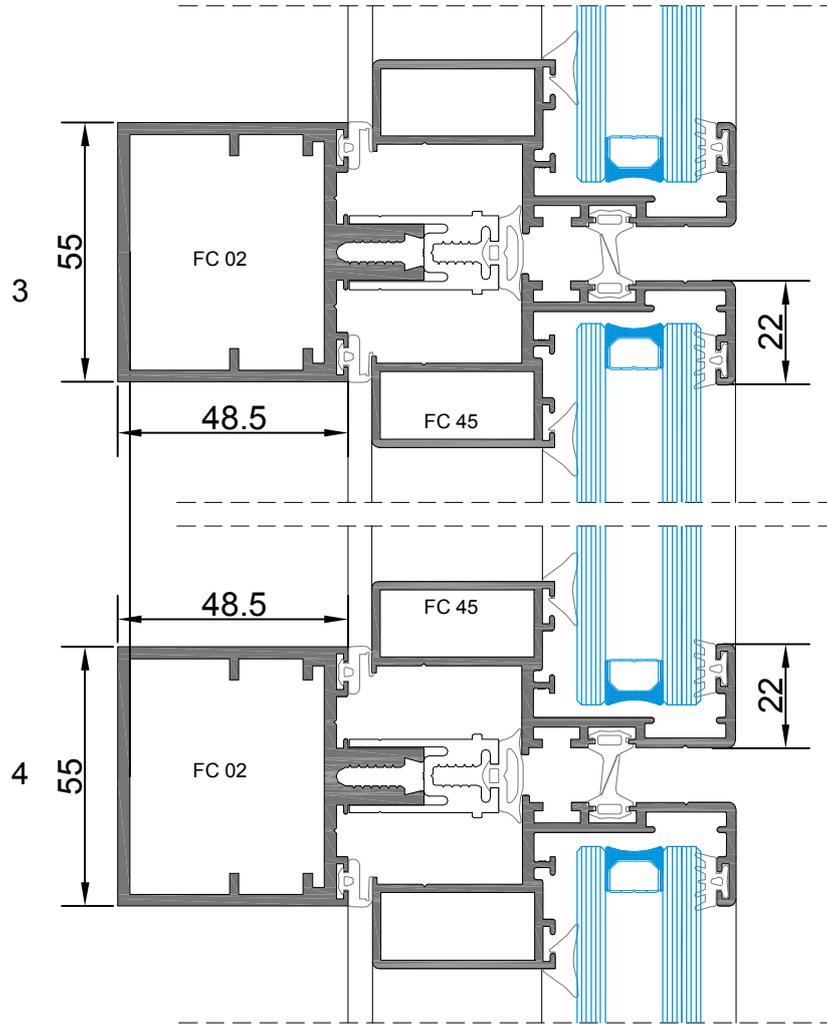
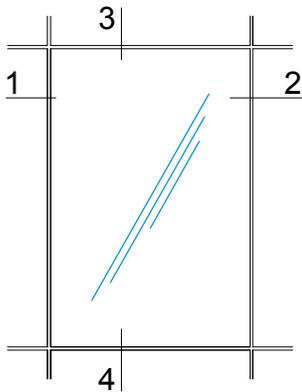


FACHADA SEMI-OCULTA COM JANELA PROJECTANTE COM O PERFIL FC 35

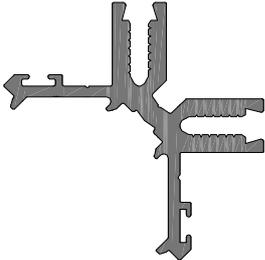


PORMENOR DE FACHADA SEMI-OCULTA - MONTANTE

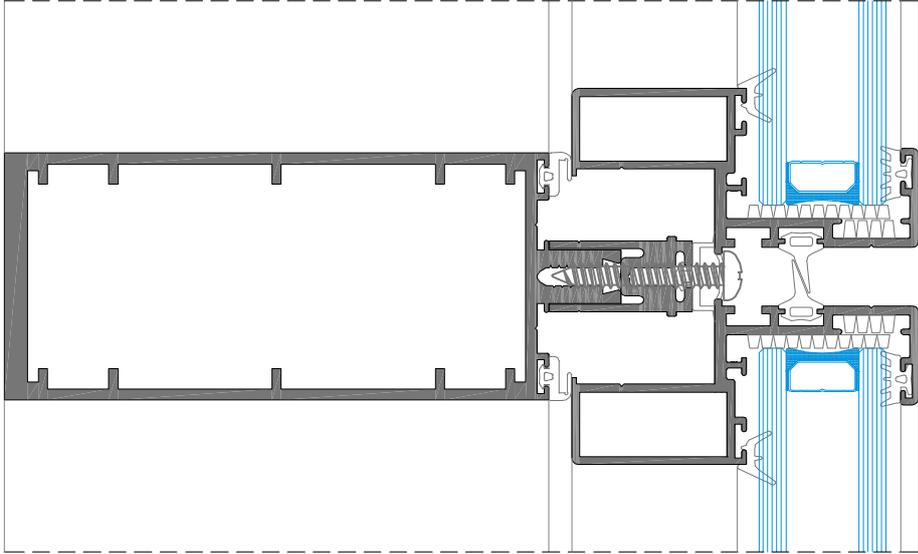
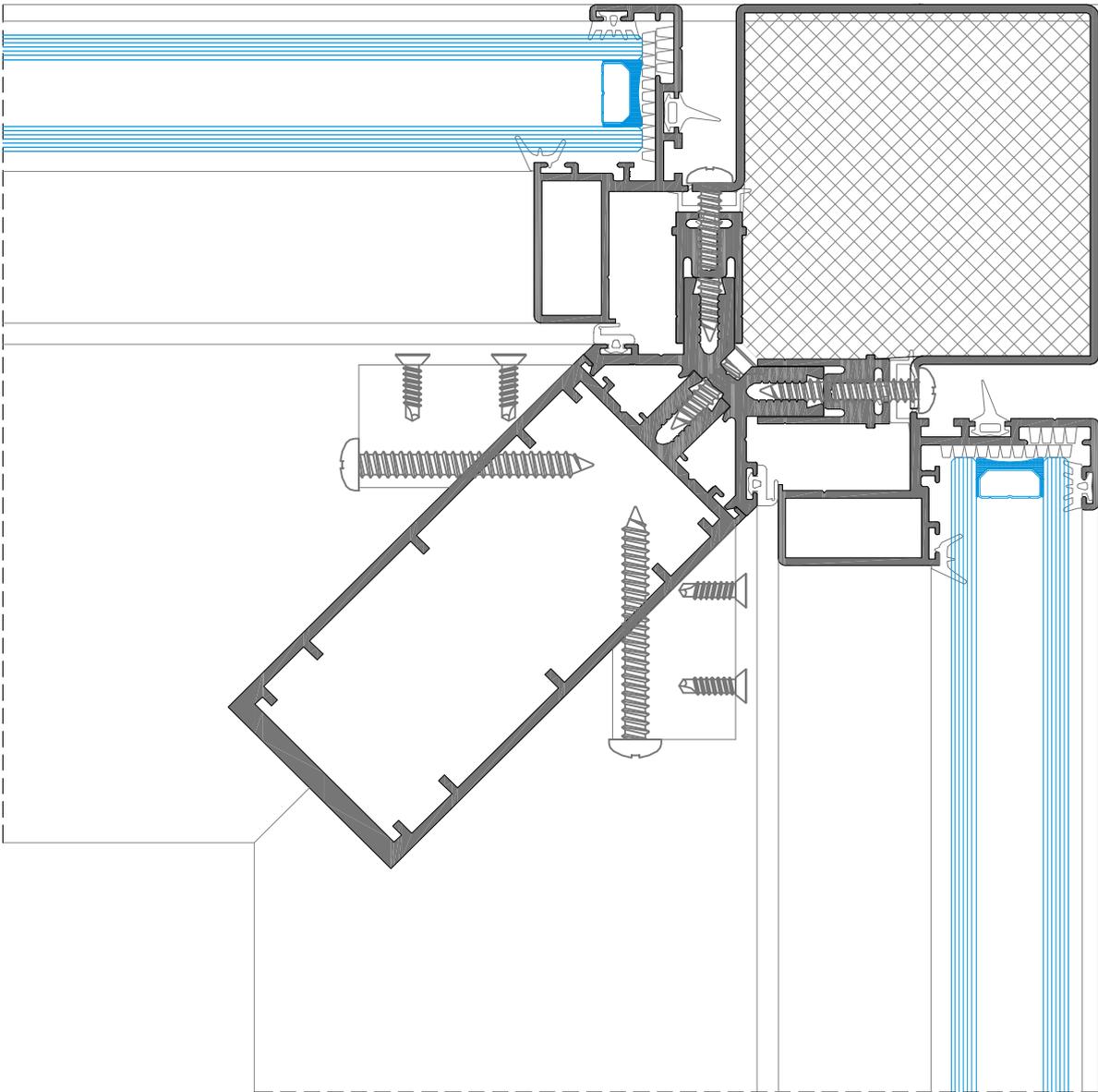
PORMENOR DE FACHADA SEMI-OCULTA - TRAVESSA



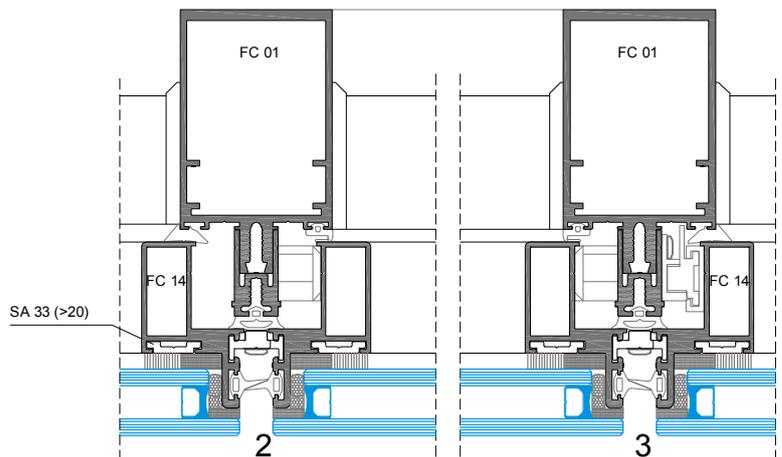
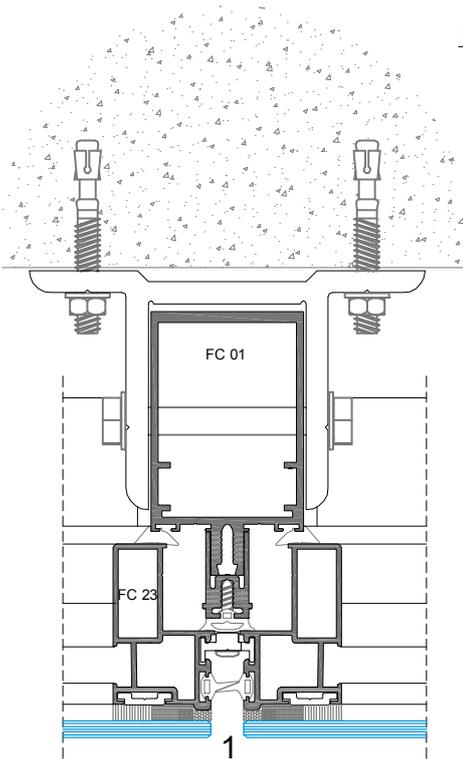
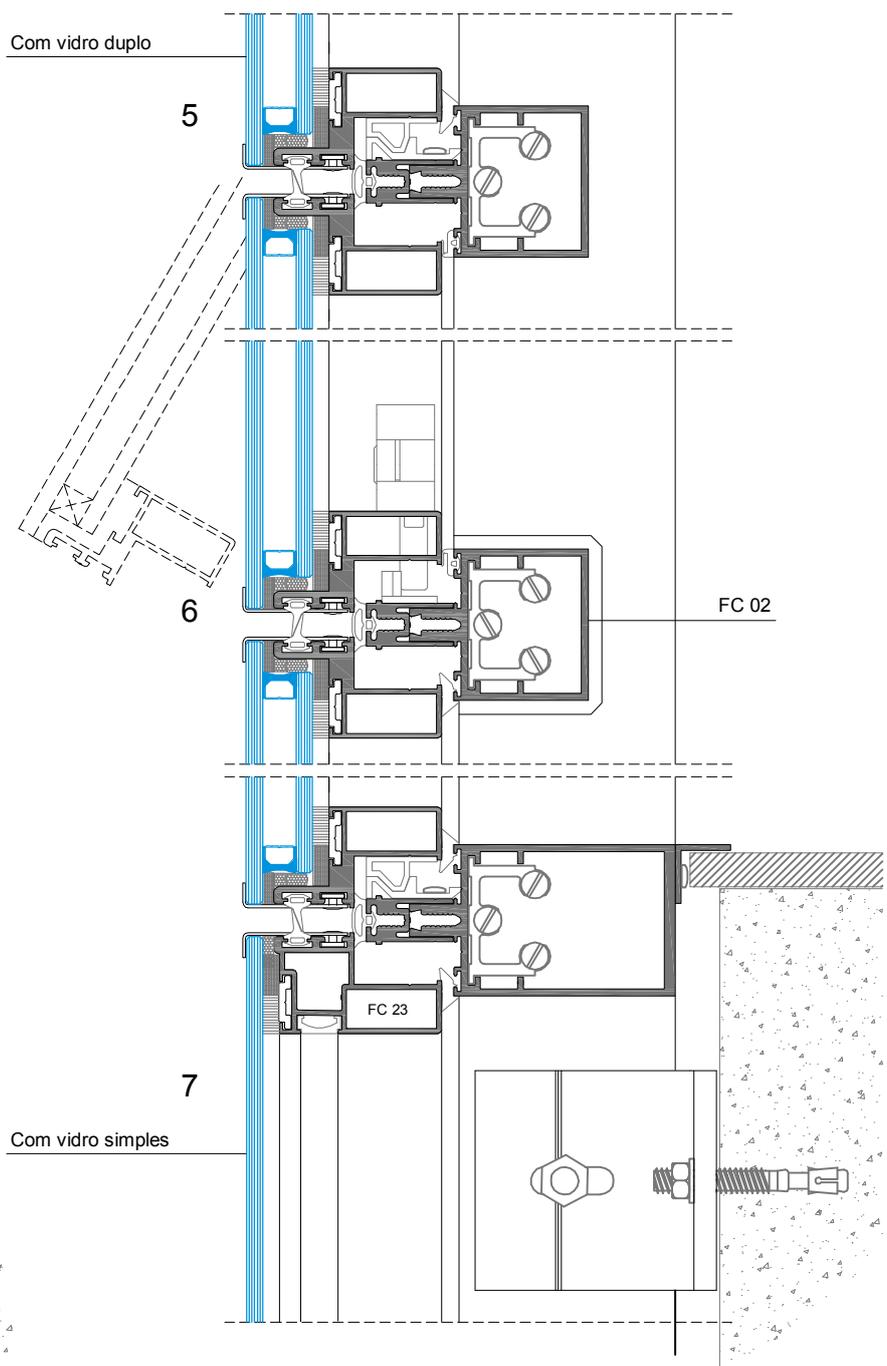
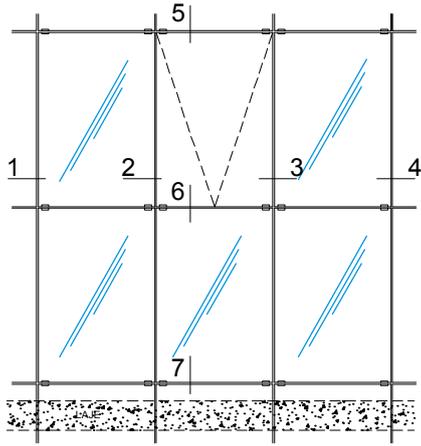
FACHADA SEMI-OCULTA: CANTO 90°



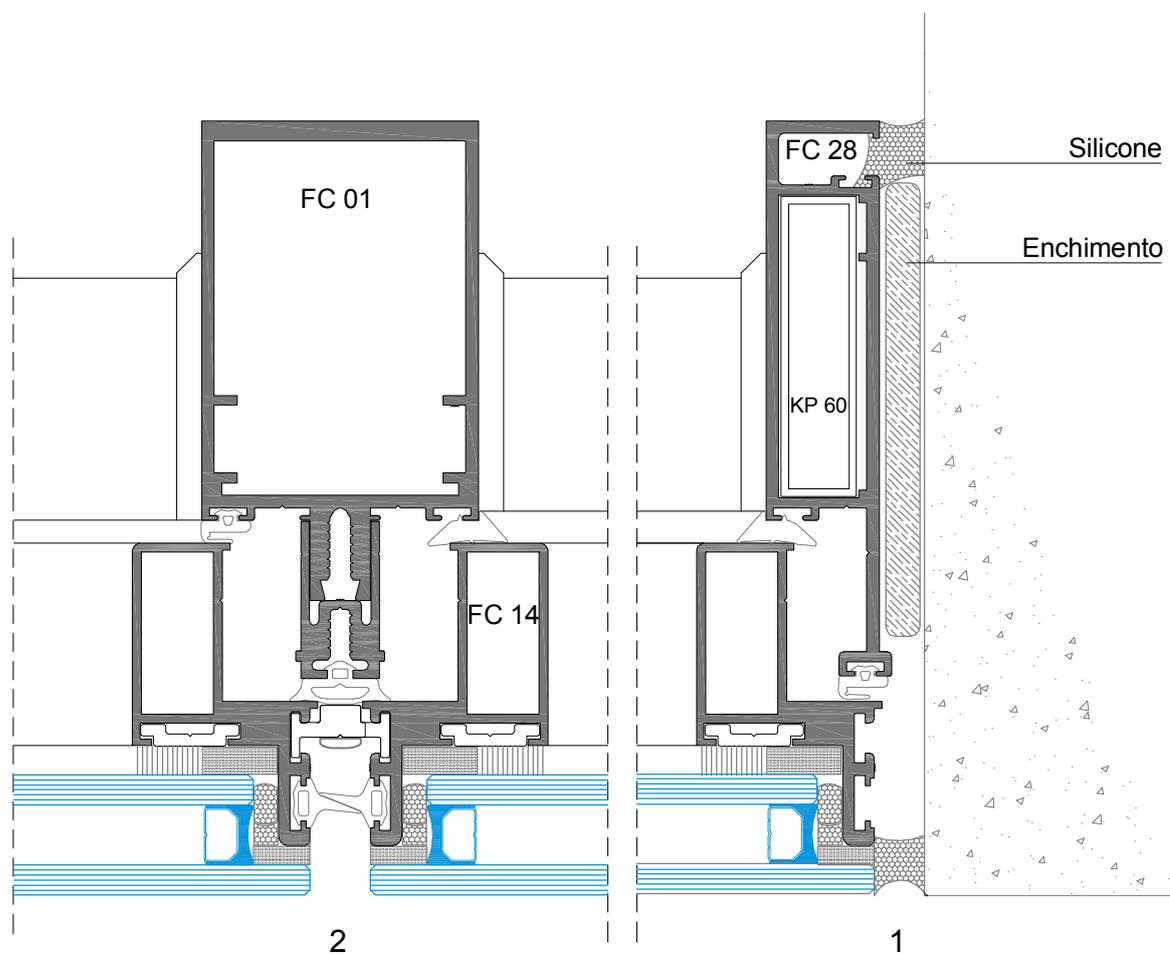
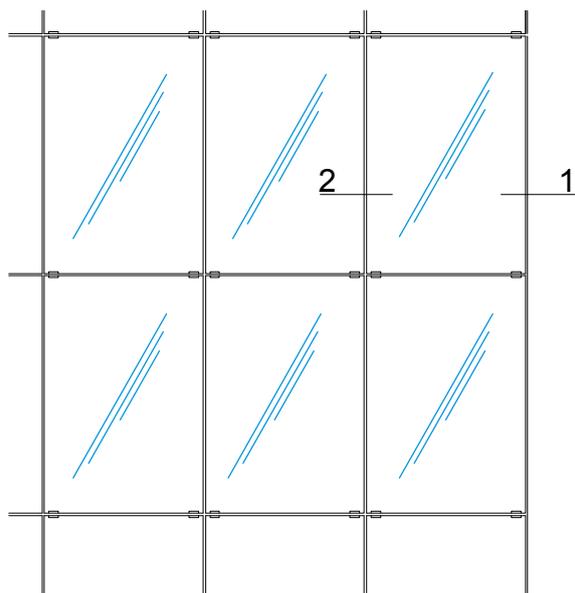
FC 42



FACHADA OCULTA COM JANELA PROJECTANTE



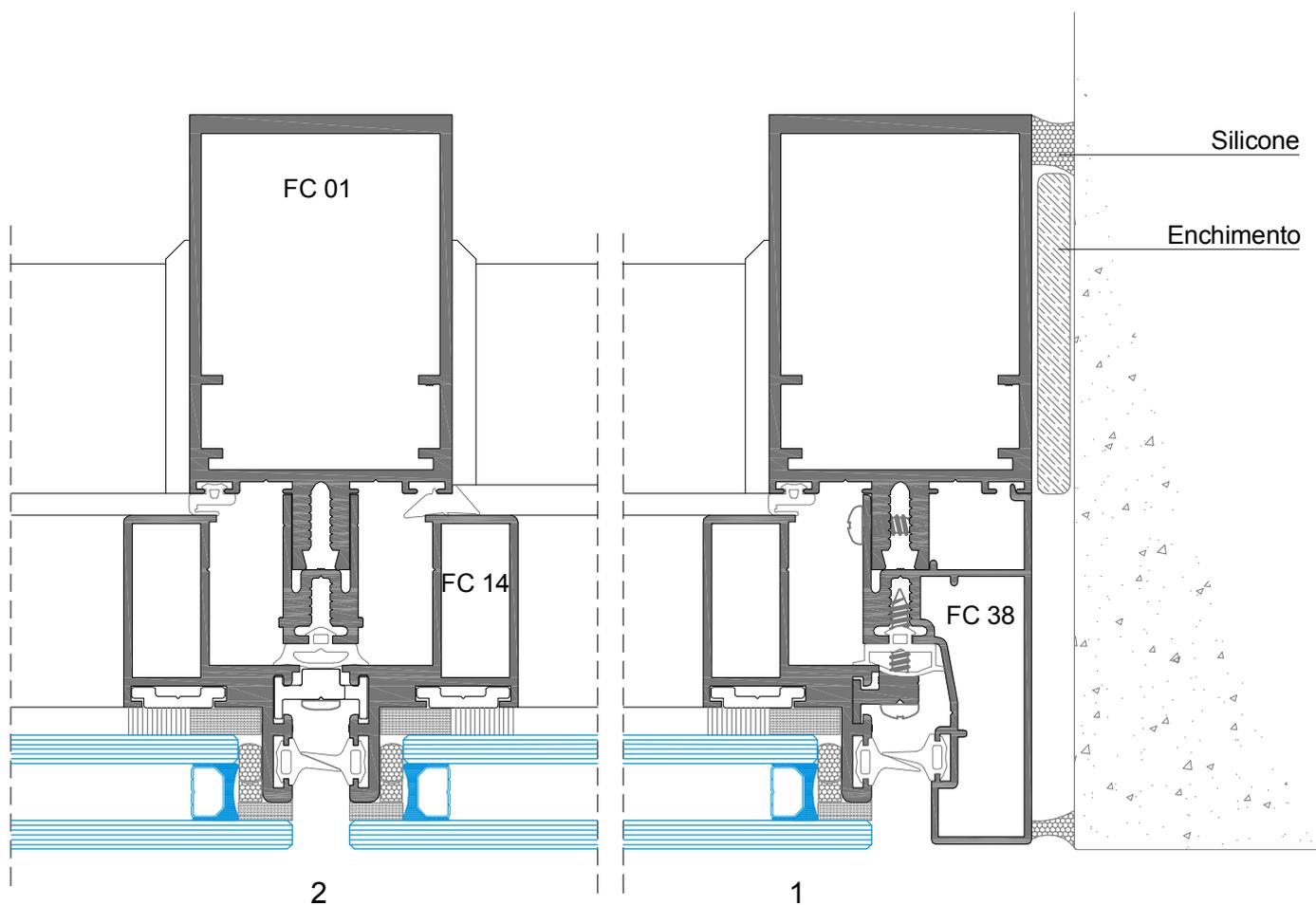
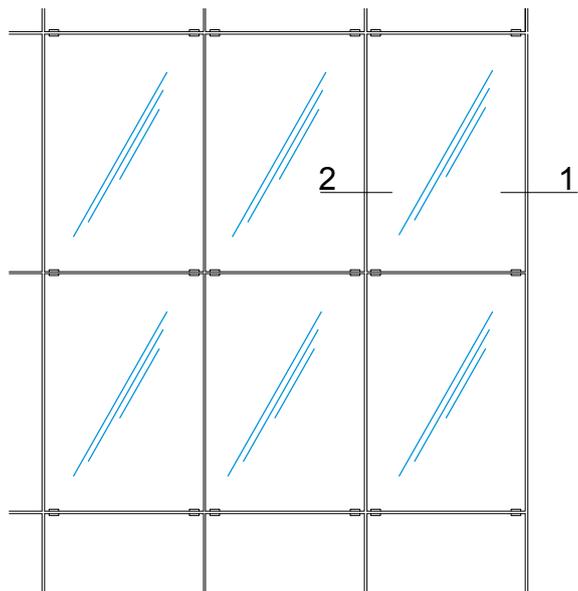
ALÇADO DO SISTEMA DE FACHADA OCULTA  
 PORMENOR ALTERNATIVO - REMATE À PAREDE COM FC 28



OS PORMENORES MENCIONADOS SÃO A TÍTULO INFORMATIVO.  
 PARA PROJECTOS ESPECÍFICOS CONTACTAR O DEPARTAMENTO TÉCNICO.

## ALÇADO DO SISTEMA DE FACHADA OCULTA

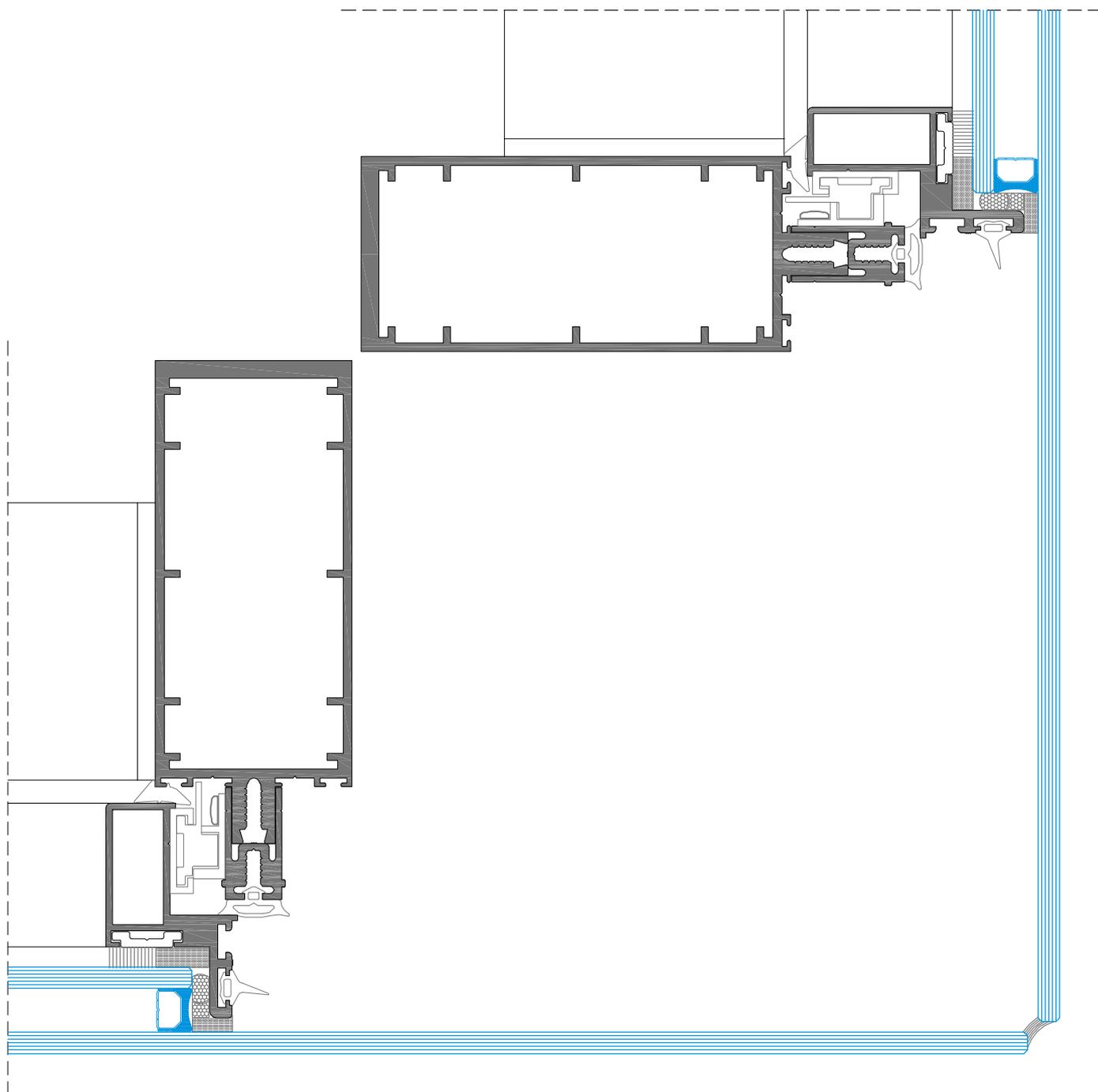
### PORMENOR ALTERNATIVO - REMATE À PAREDE COM FC 38



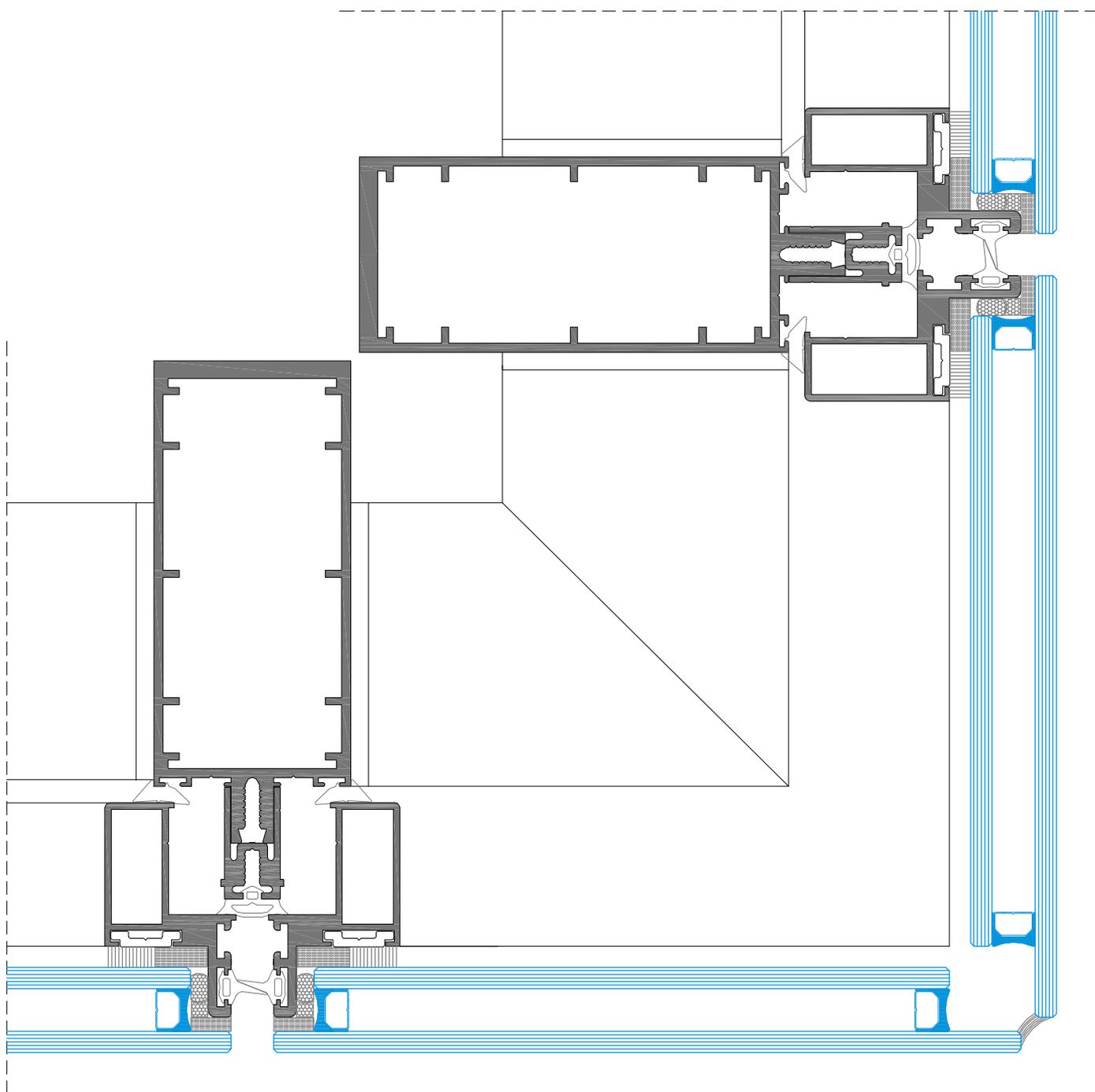
OS PORMENORES MENCIONADOS SÃO A TÍTULO INFORMATIVO.

PARA PROJECTOS ESPECÍFICOS CONTACTAR O DEPARTAMENTO TÉCNICO.

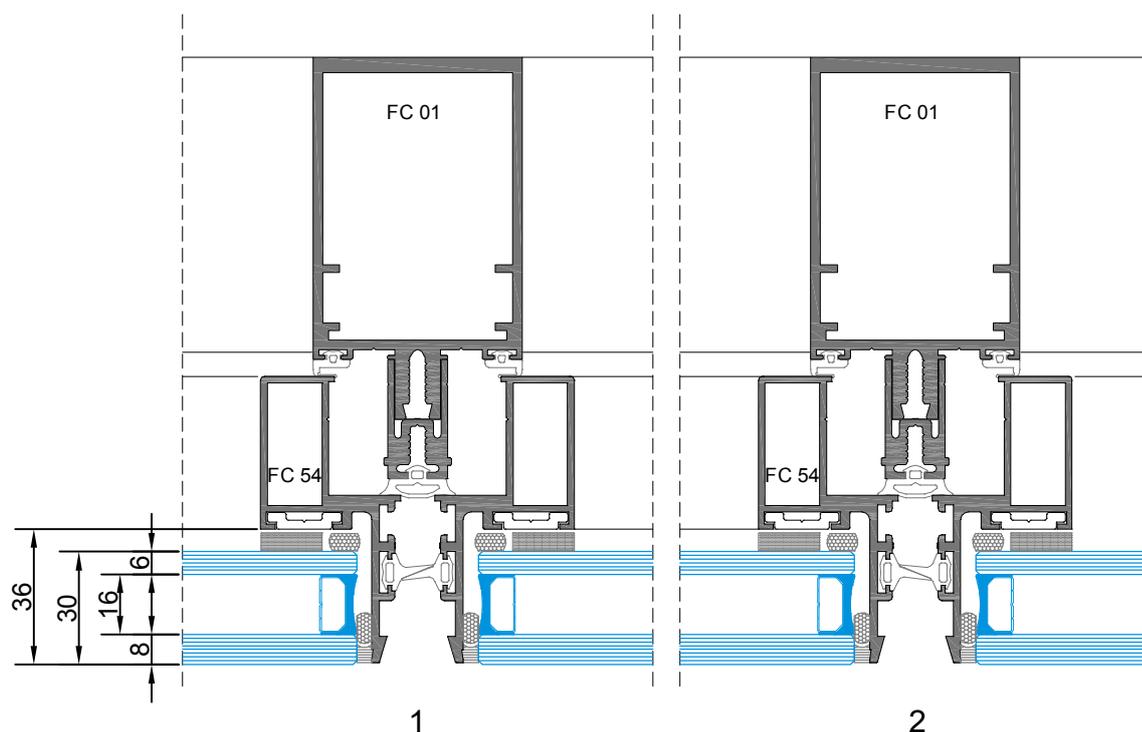
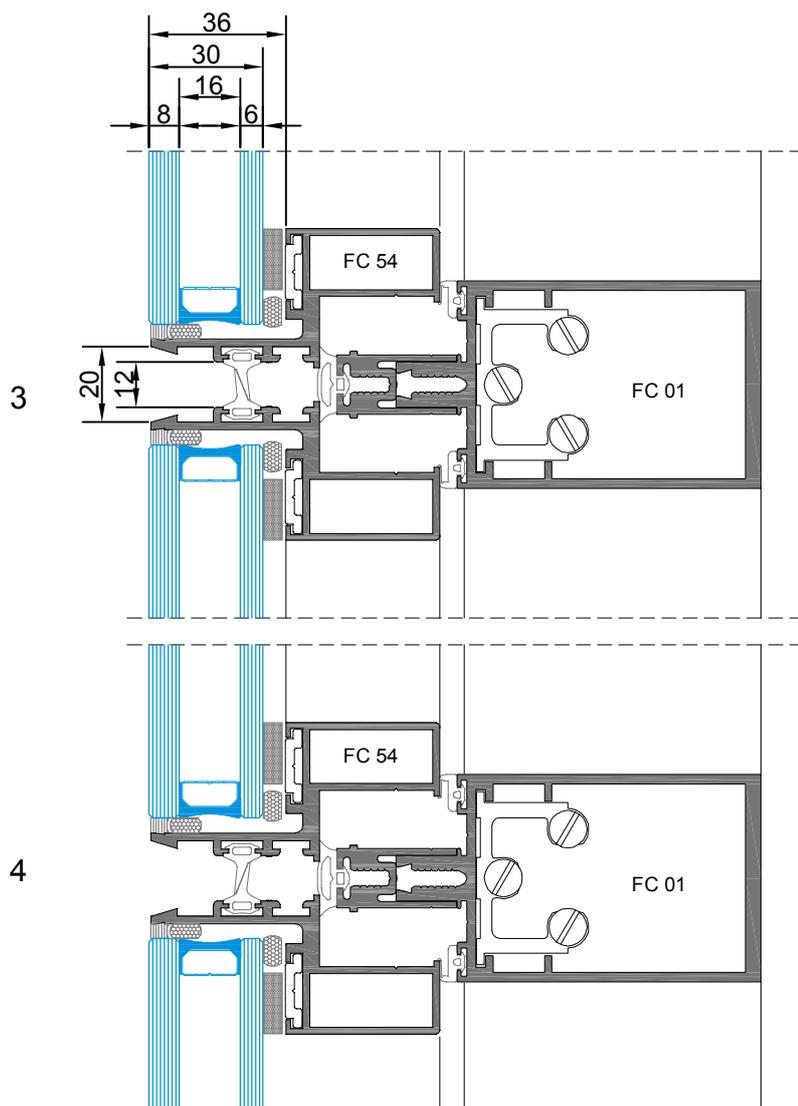
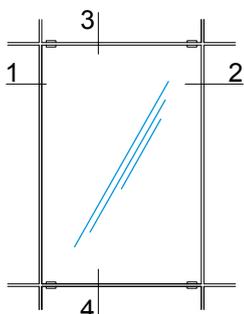
FACHADA OCULTA  
CANTO A 90°



FACHADA OCULTA  
CANTO A 90°



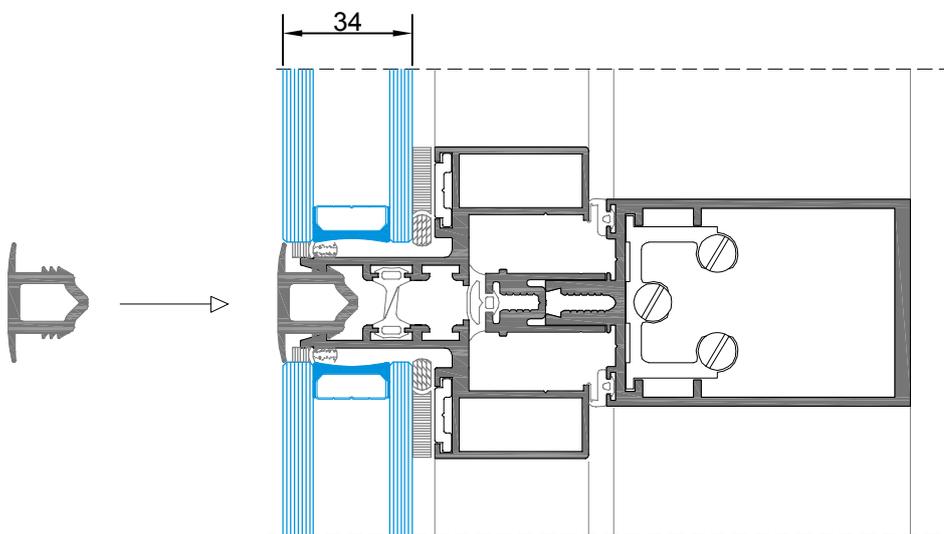
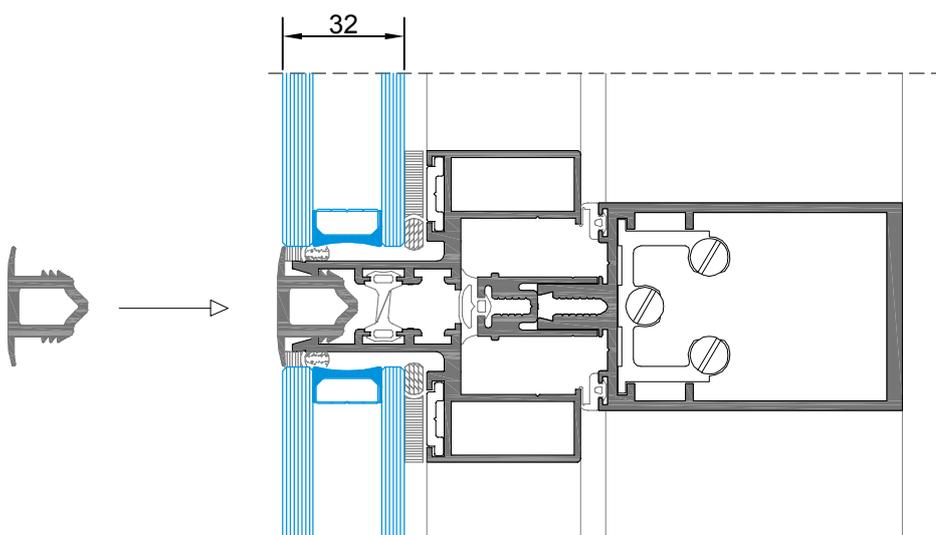
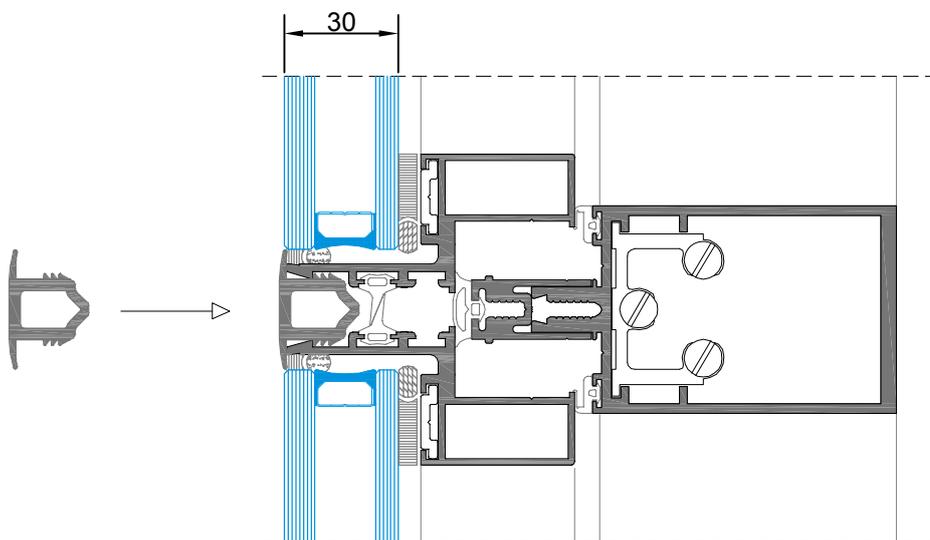
FACHADA OCULTA  
COM O PERFIL FC54



FACHADA OCULTA

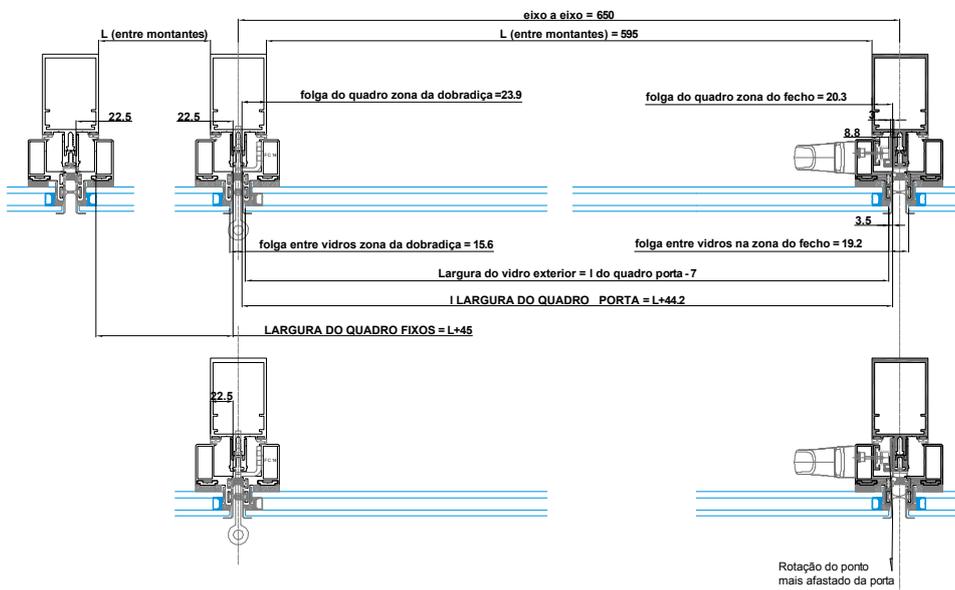
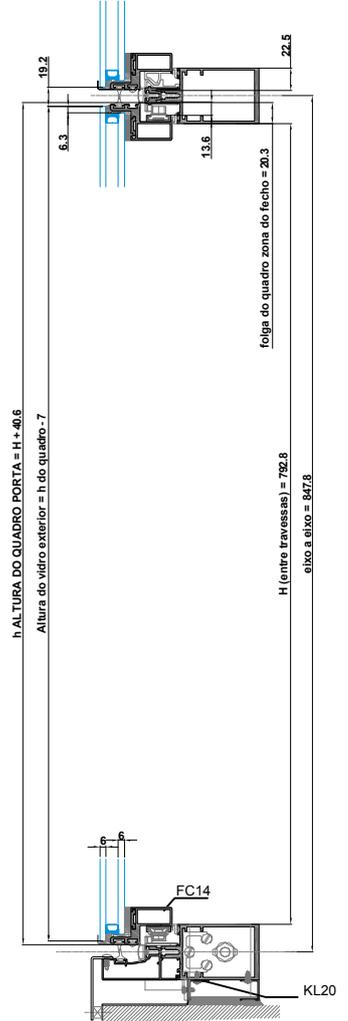
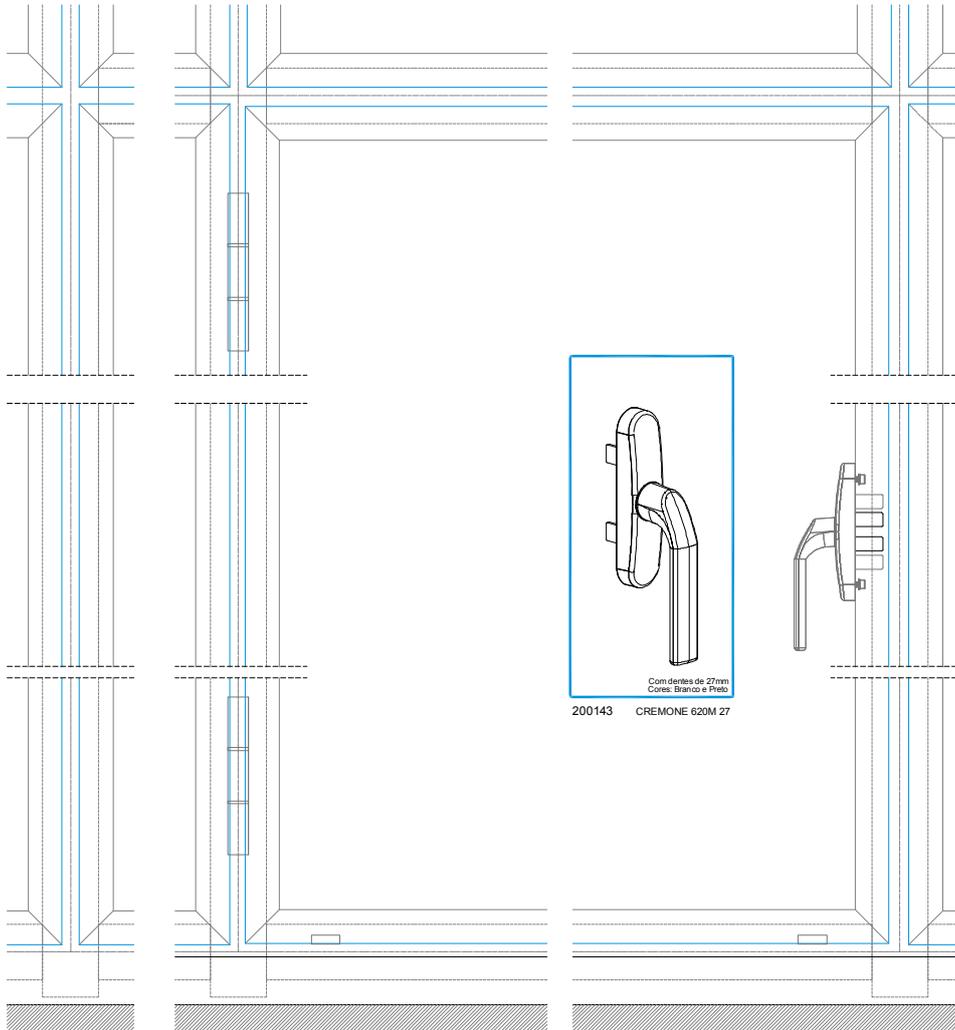
JUNTA 2156

A APLICAÇÃO DA JUNTA 2156 É OPCIONAL

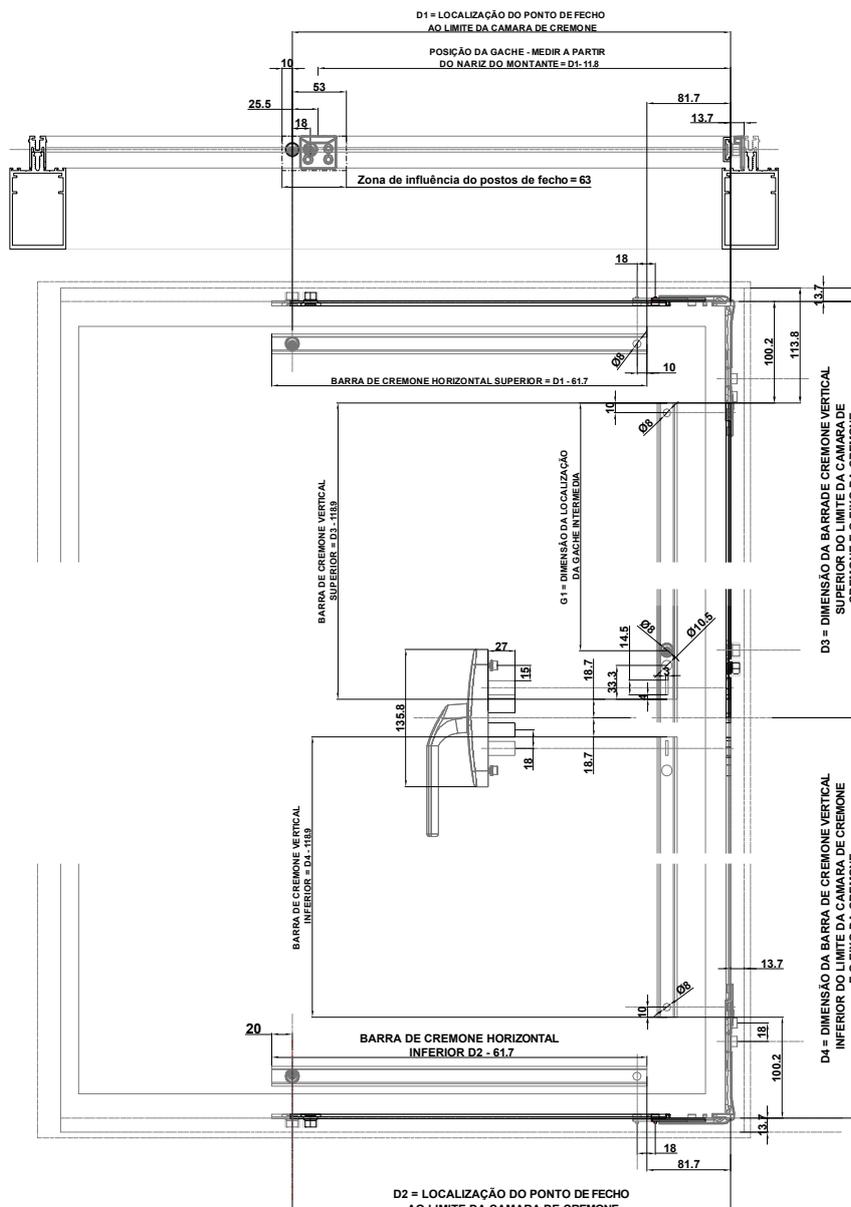




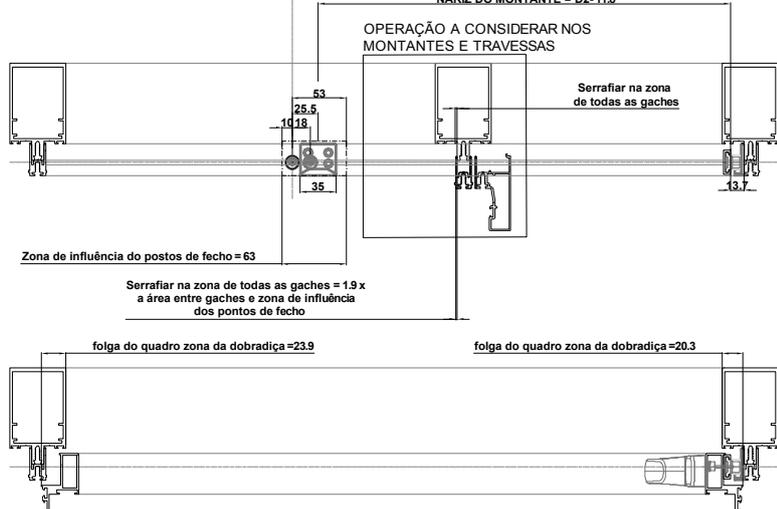
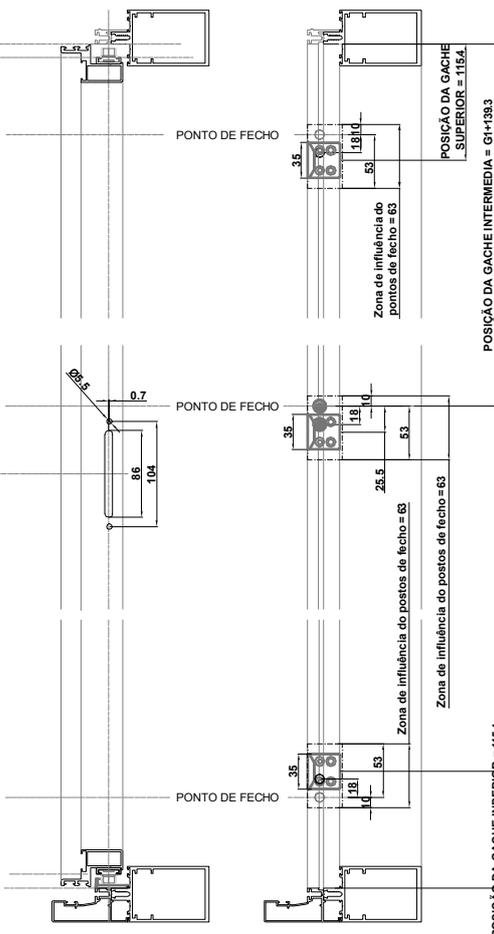
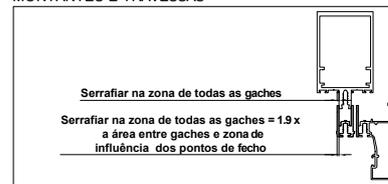
## APLICAÇÃO DA DOBRADIÇA INOX PARA SÉRIE FC EM SISTEMA FC-OCULTA



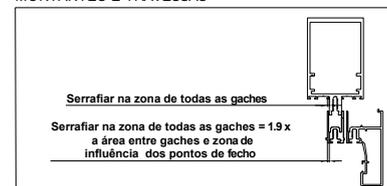
APLICAÇÃO DA DOBRADIÇA INOX PARA SÉRIE FC EM SISTEMA FC-OCULTA



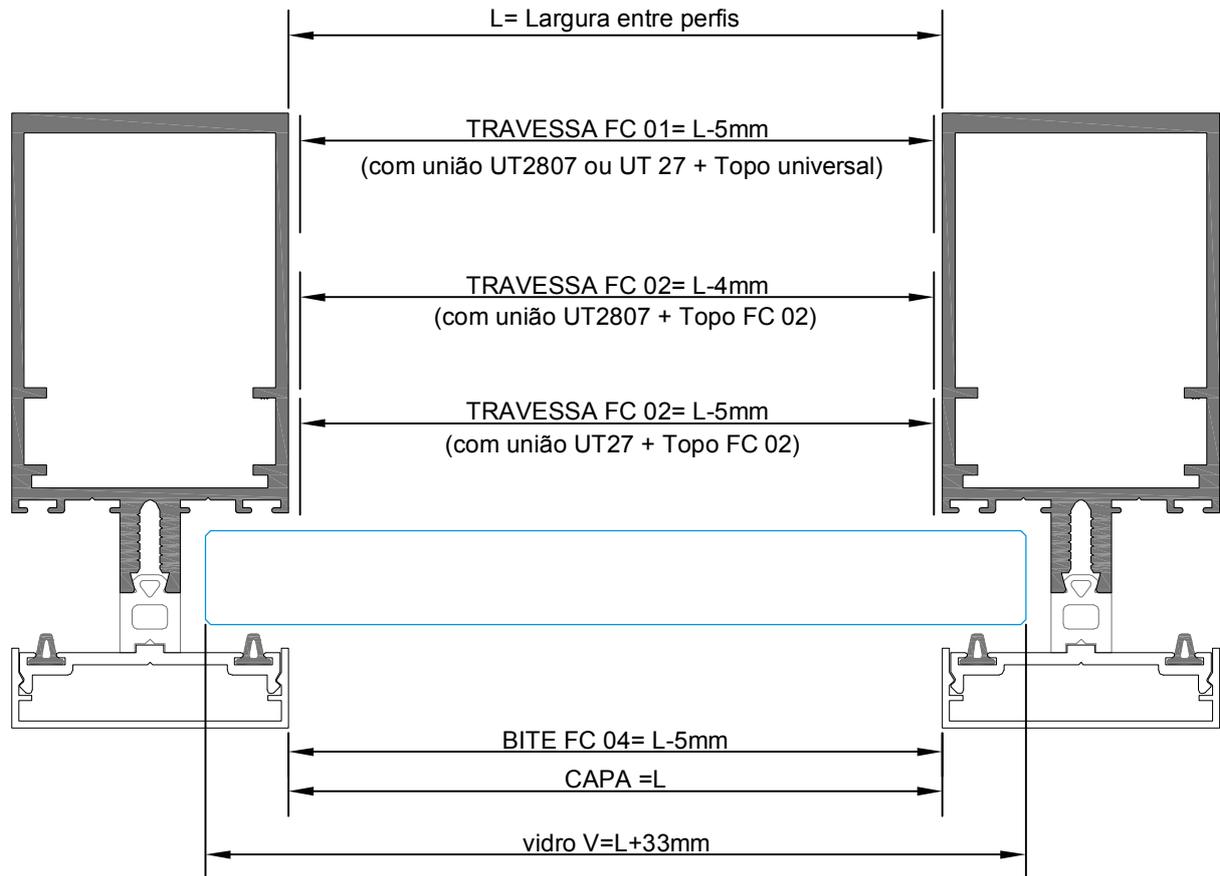
OPERAÇÃO A CONSIDERAR NOS MONTANTES E TRAVESSAS



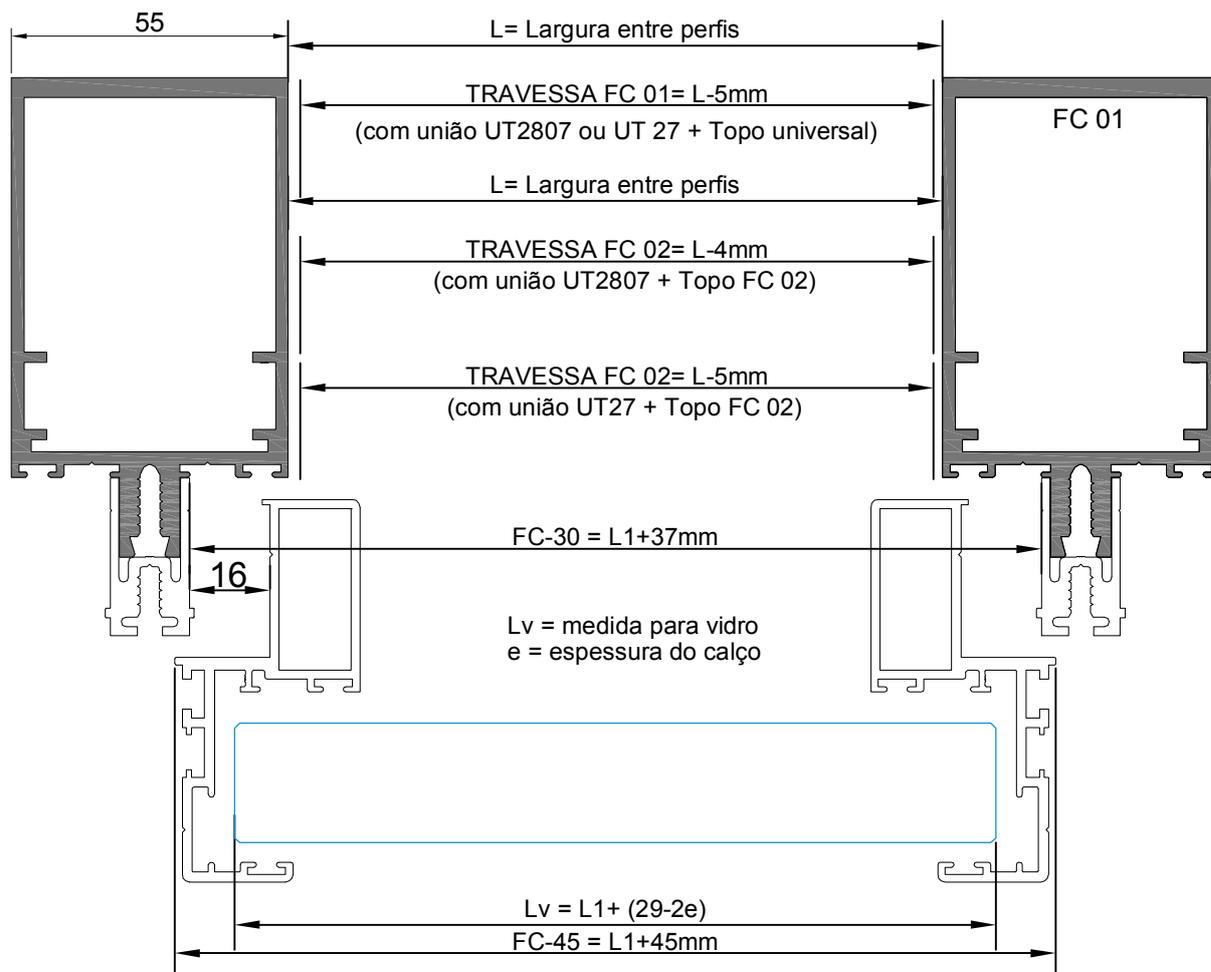
OPERAÇÃO A CONSIDERAR NOS MONTANTES E TRAVESSAS



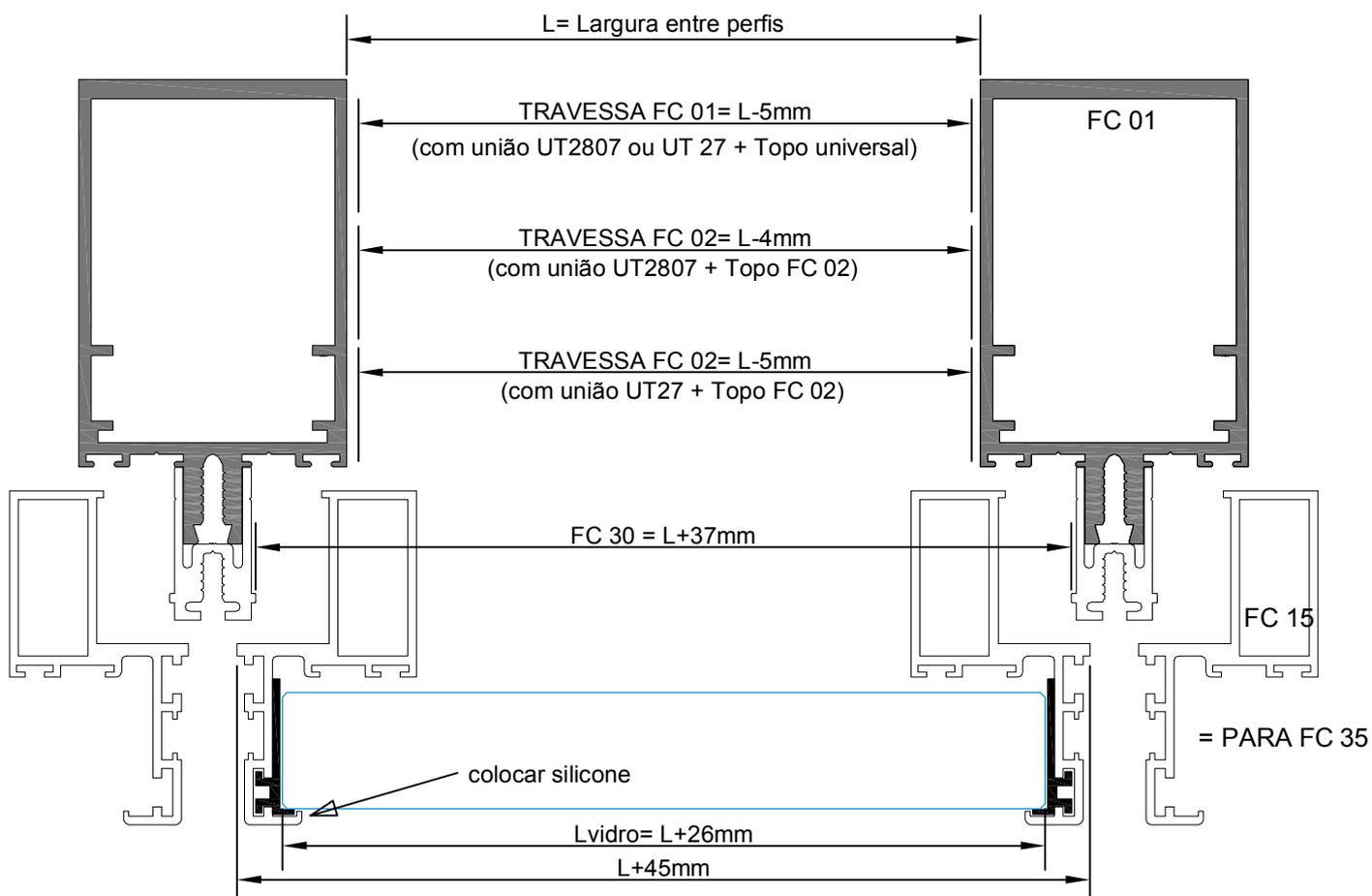
MEDIDAS DE CORTE: FACHADA ESTRUTURAL



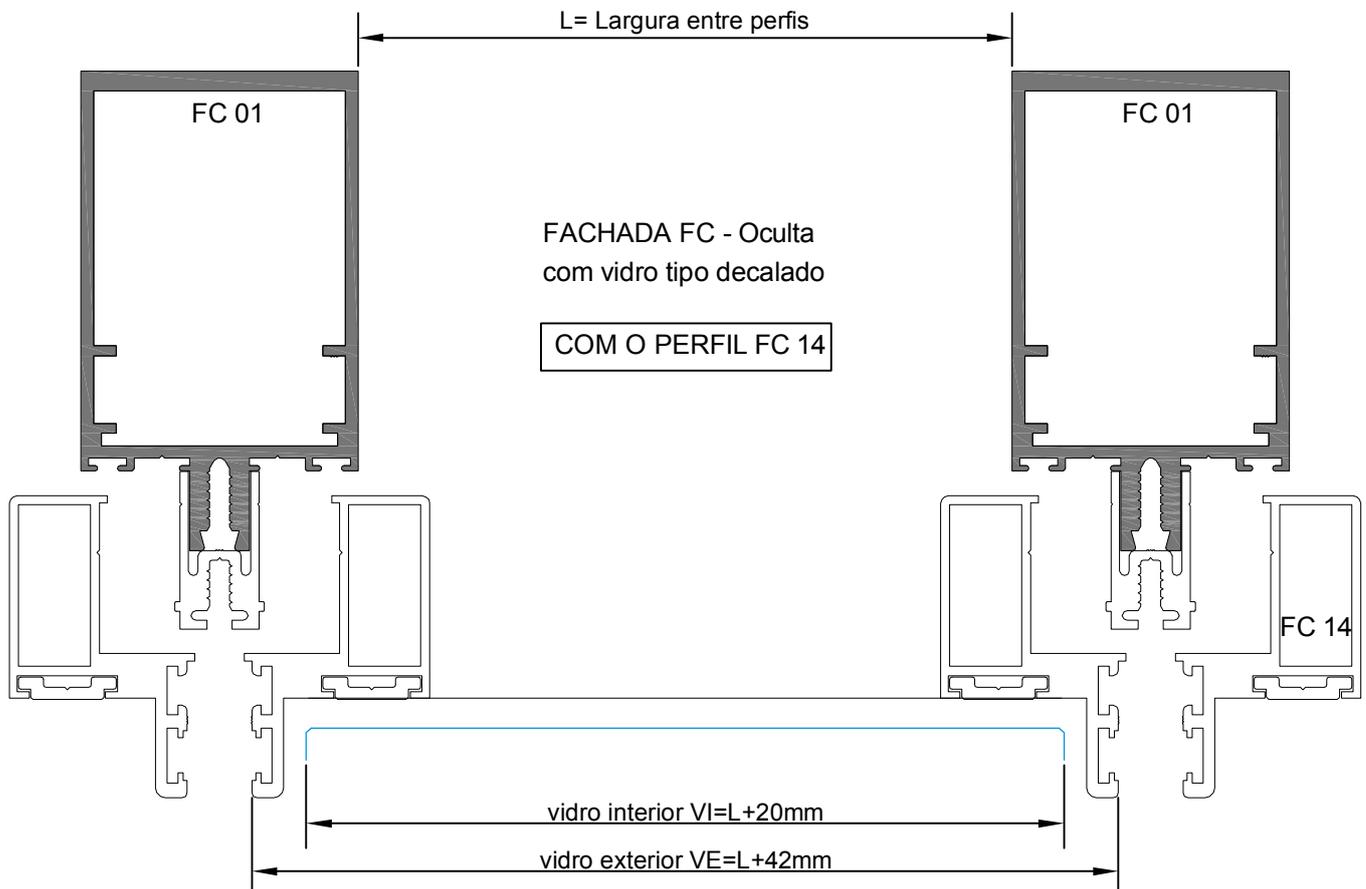
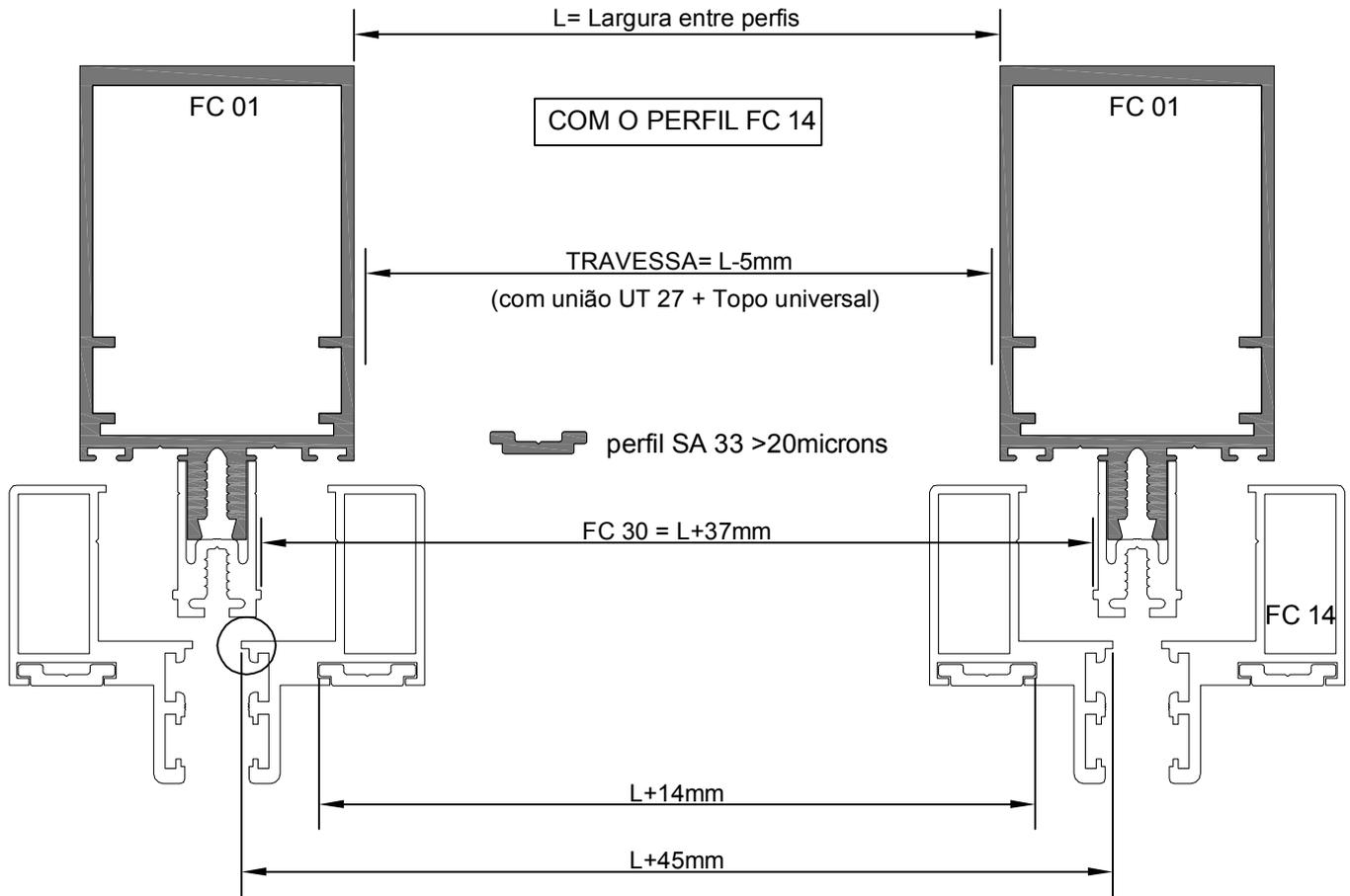
MEDIDAS DE CORTE: FACHADA SEMI-OCULTA COM FC-45



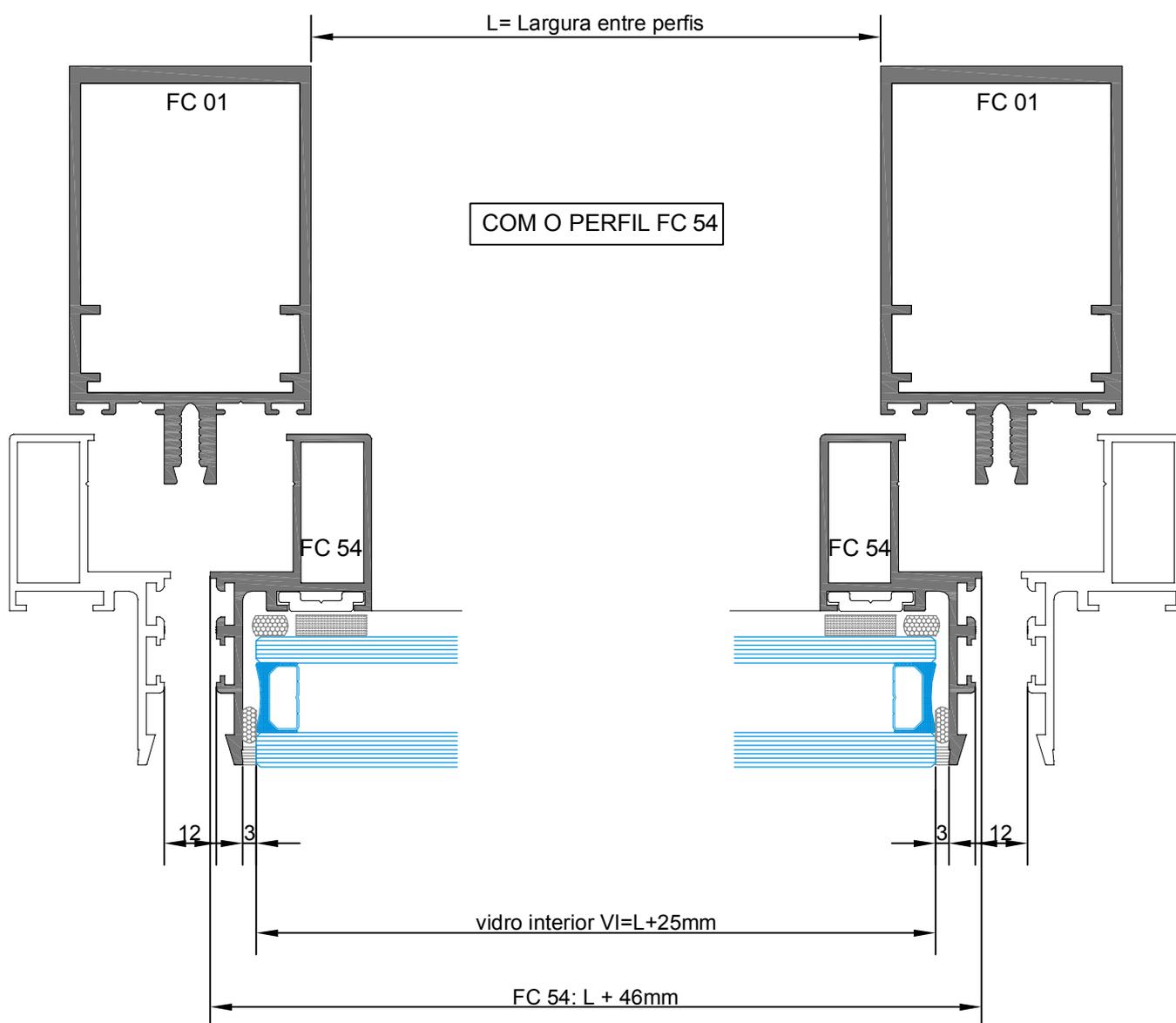
MEDIDAS DE CORTE: FACHADA SEMI-OCULTA COM FC-15



MEDIDAS DE CORTE: FACHADA OCULTA

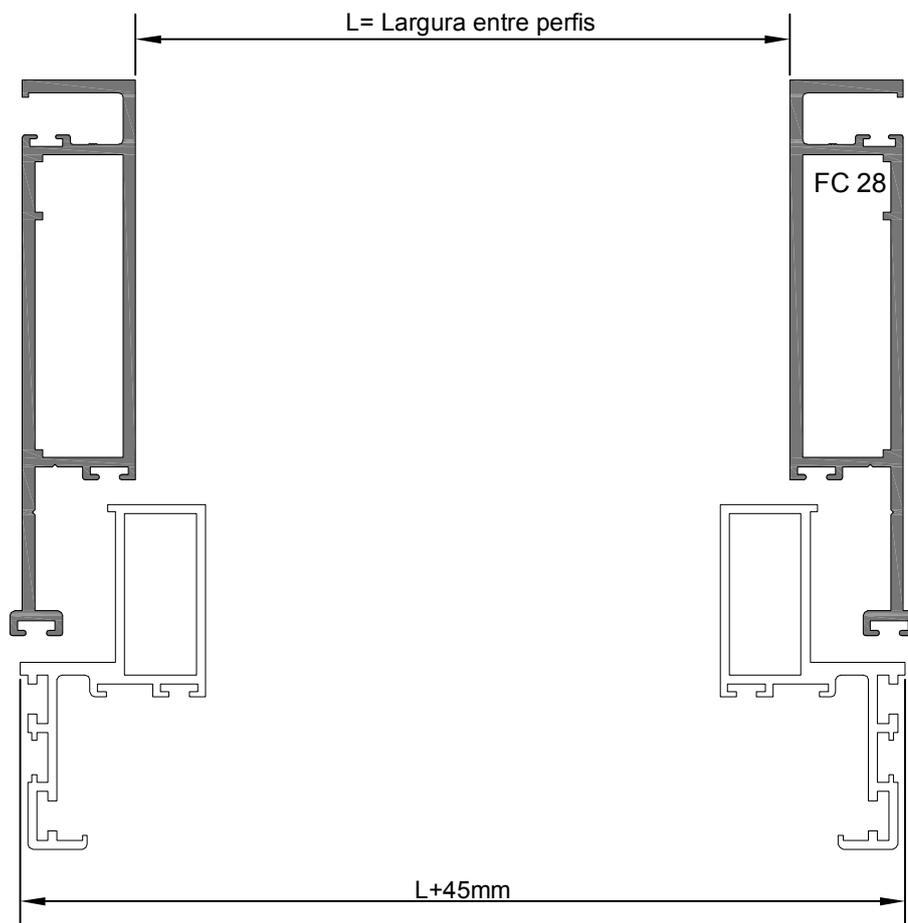


MEDIDAS DE CORTE: FACHADA OCULTA

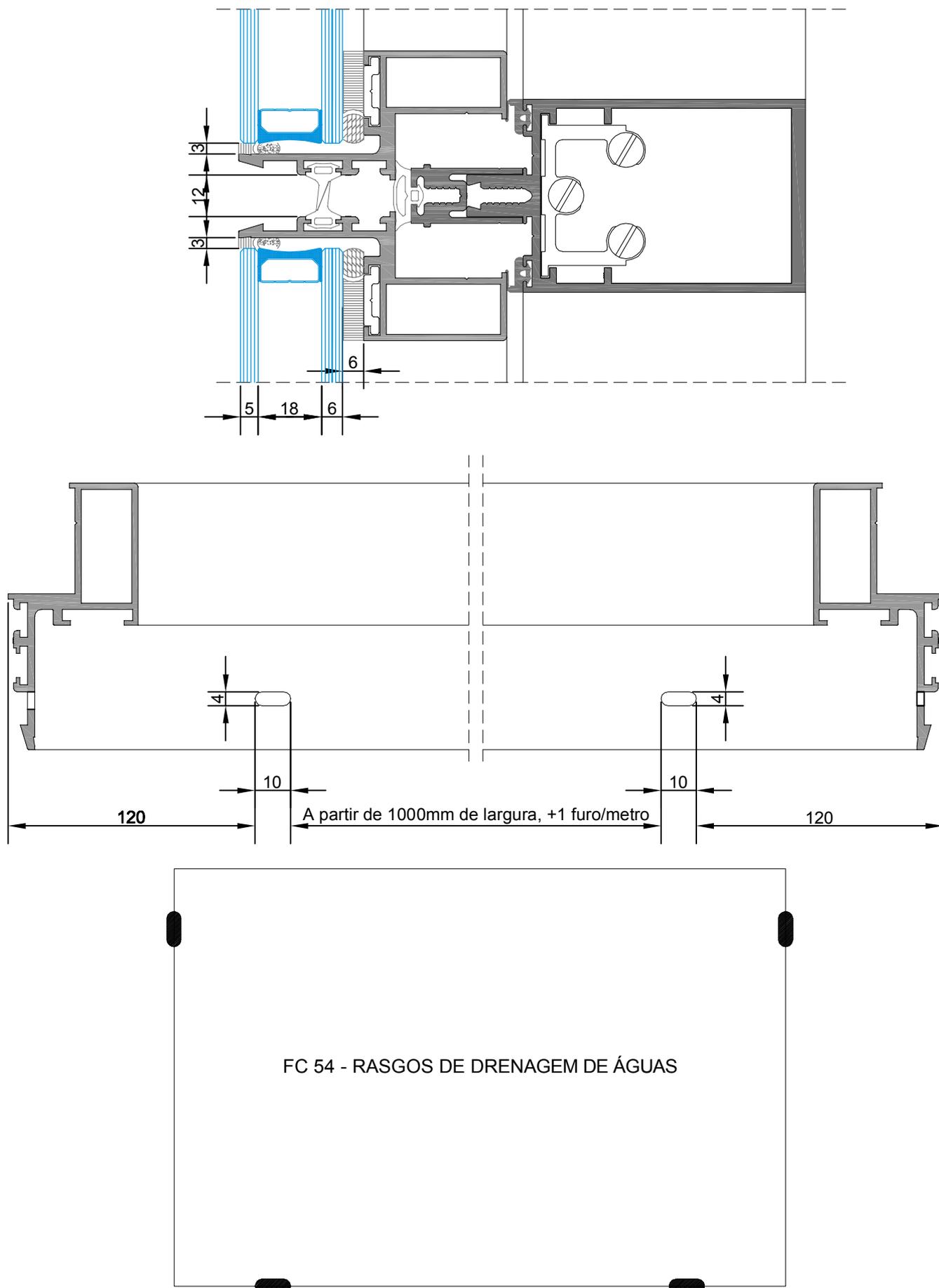


MEDIDAS DE CORTE:

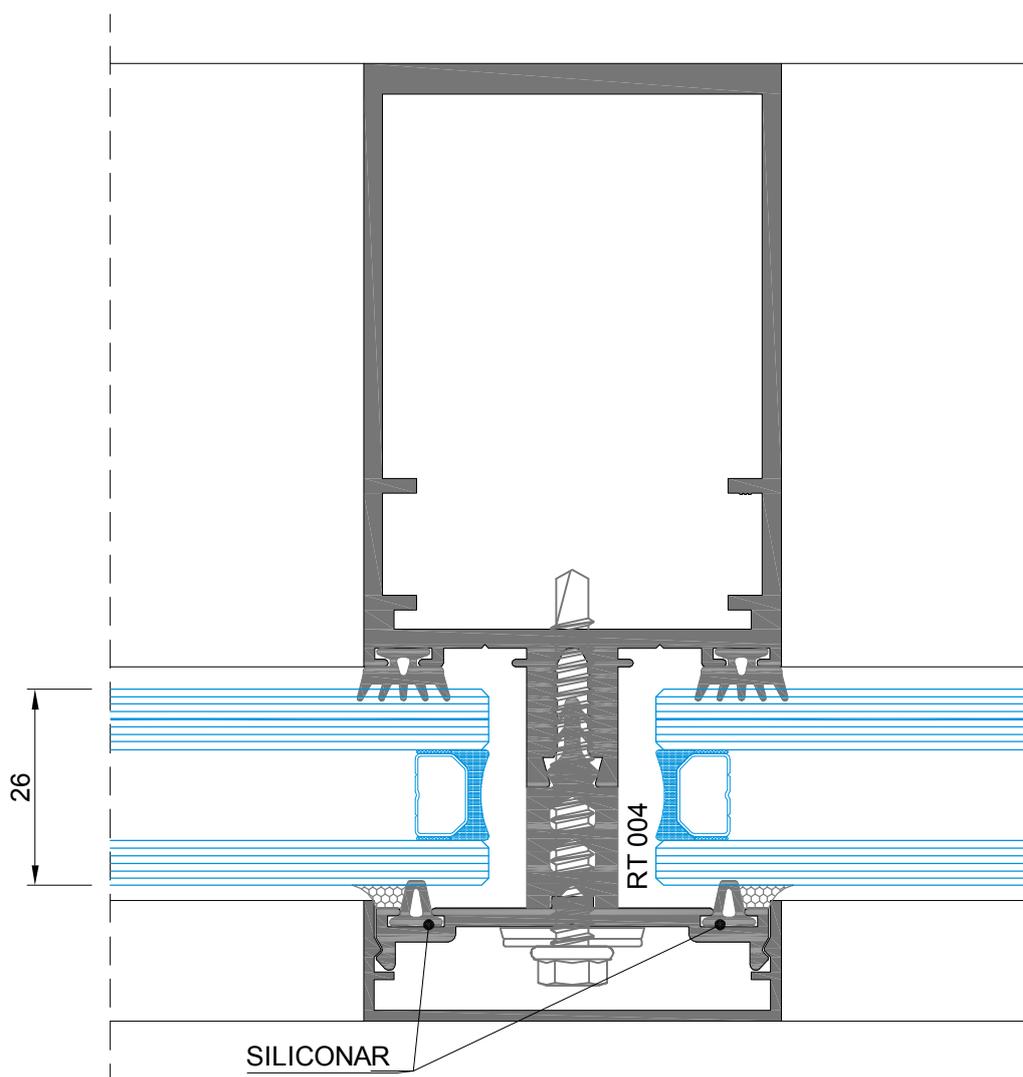
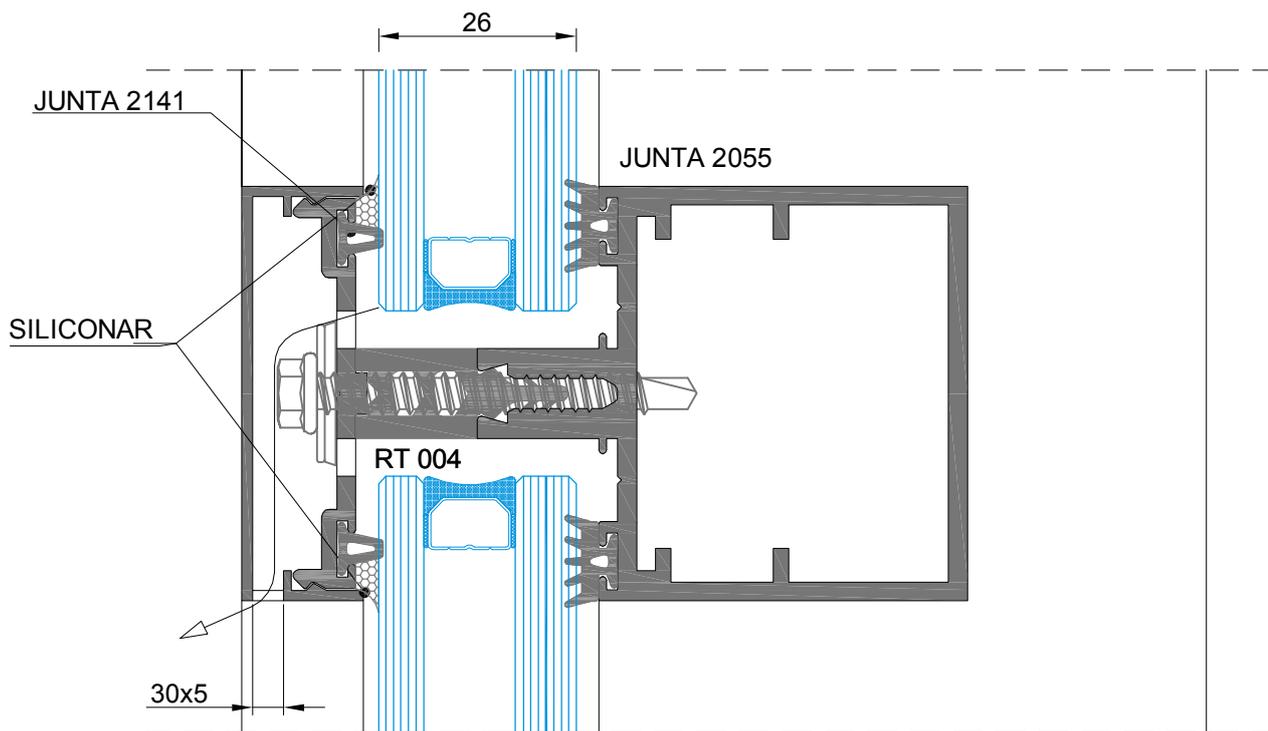
FACHADAS OCULTA/SEMI-OCULTA COM MEIO MONTANTE FC-28



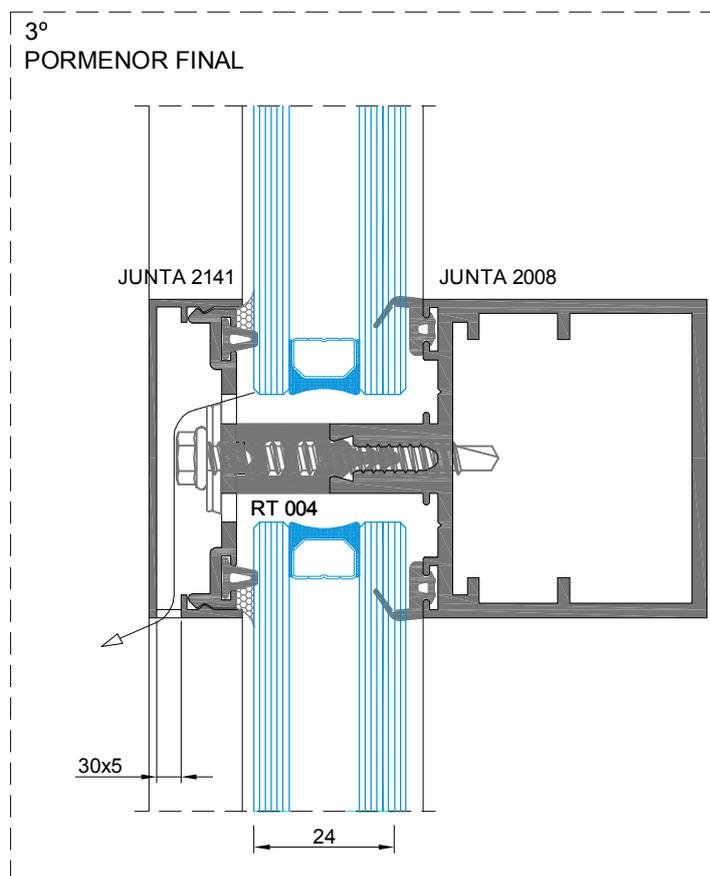
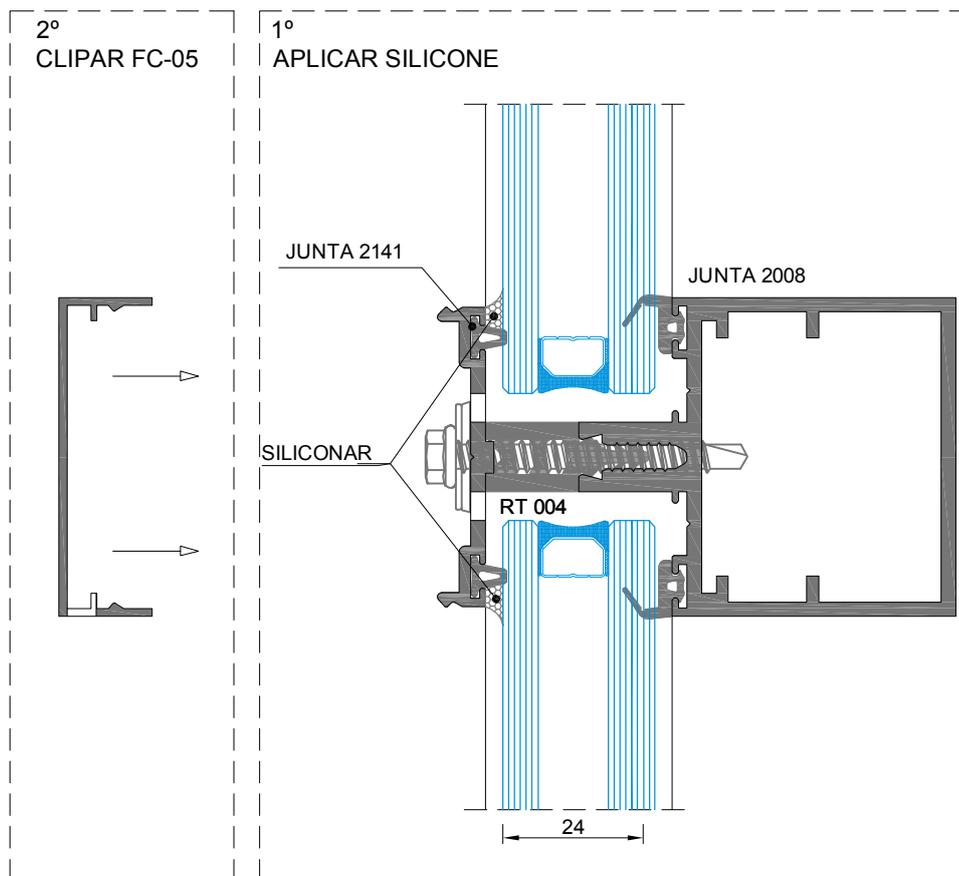
FC 54 - RASGOS DE VENTILAÇÃO/DRENAGEM DE ÁGUAS



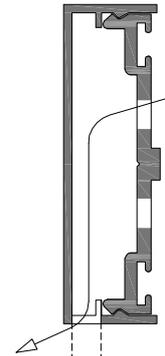
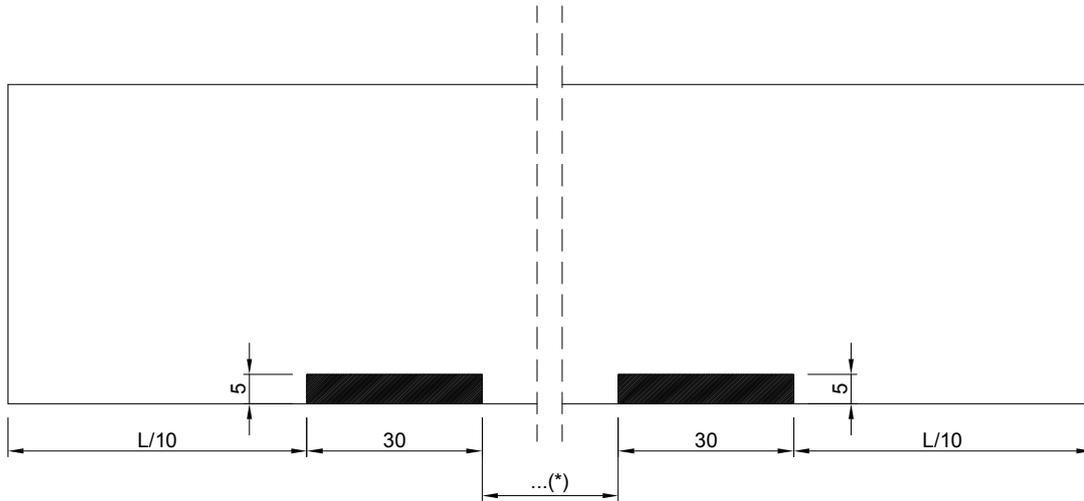
APLICAÇÃO COM O PERFIL FC 01+FC 02+FC 04+FC 05



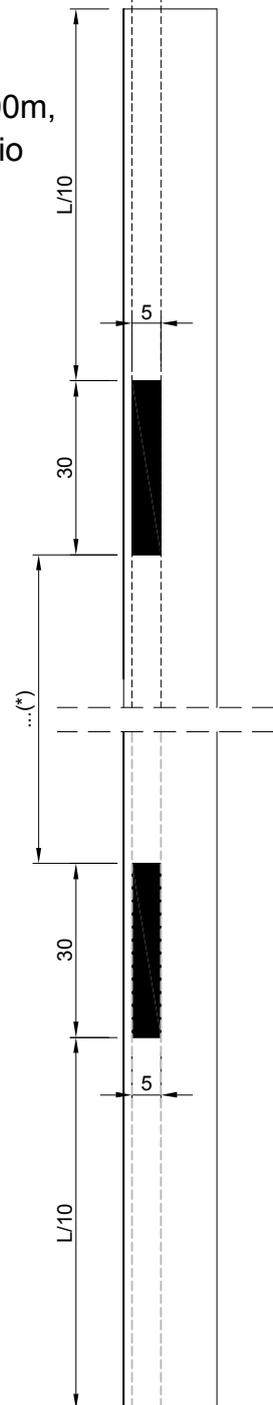
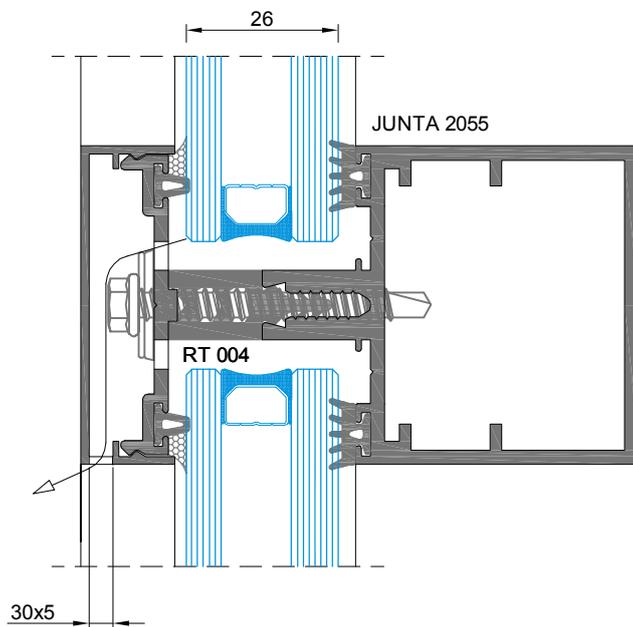
FC 04 - APLICAÇÃO DO SILICONE



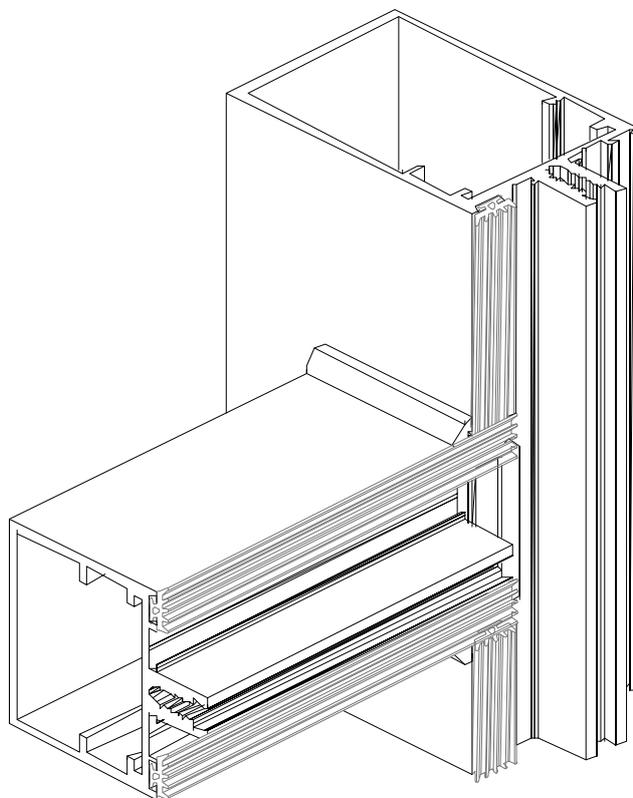
FC 05 - RASGOS DE DRENAGEM DE ÁGUAS



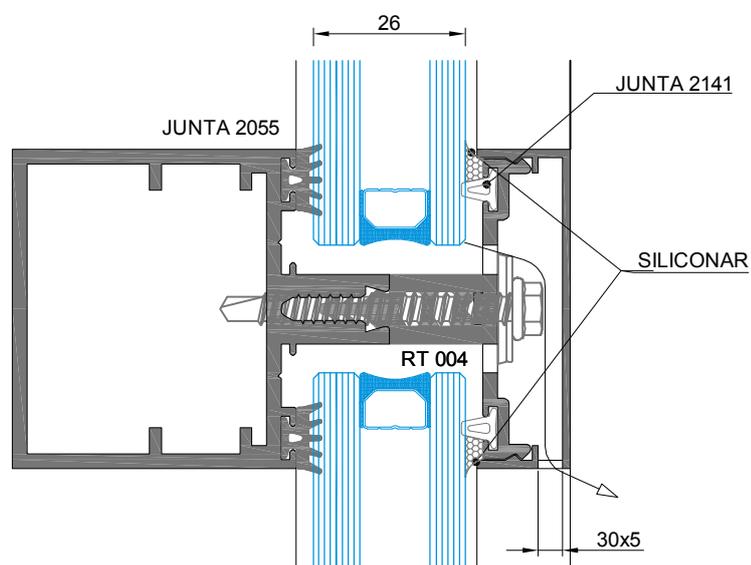
\* Até 1,00 m de largura, mínimo 2 rasgos por cada largura. A partir de 1,00m, serão realizados mais um rasgo com as mesmas dimensões por cada meio metro a mais.



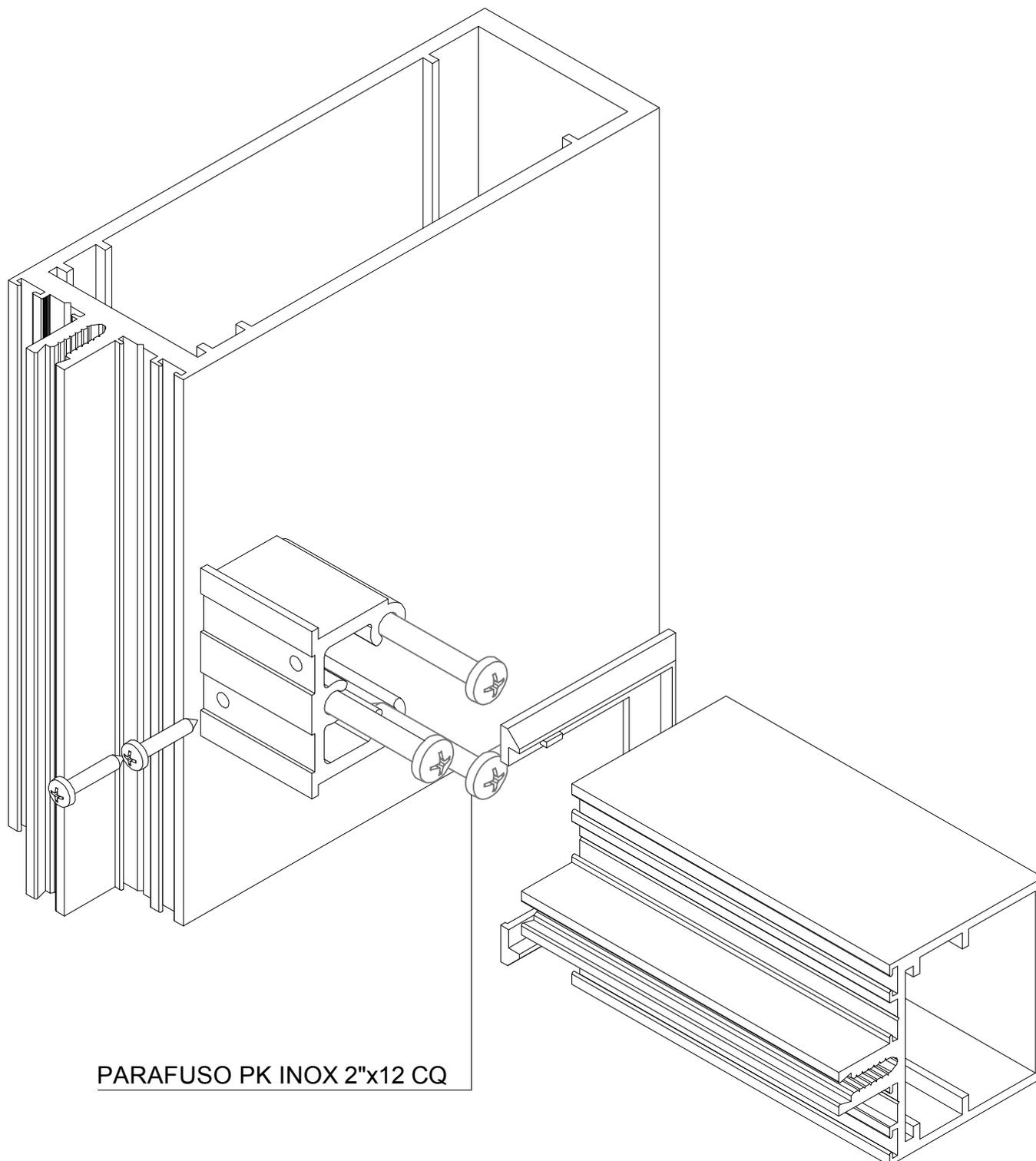
APLICAÇÃO DOS VEDANTES: Junta 2055



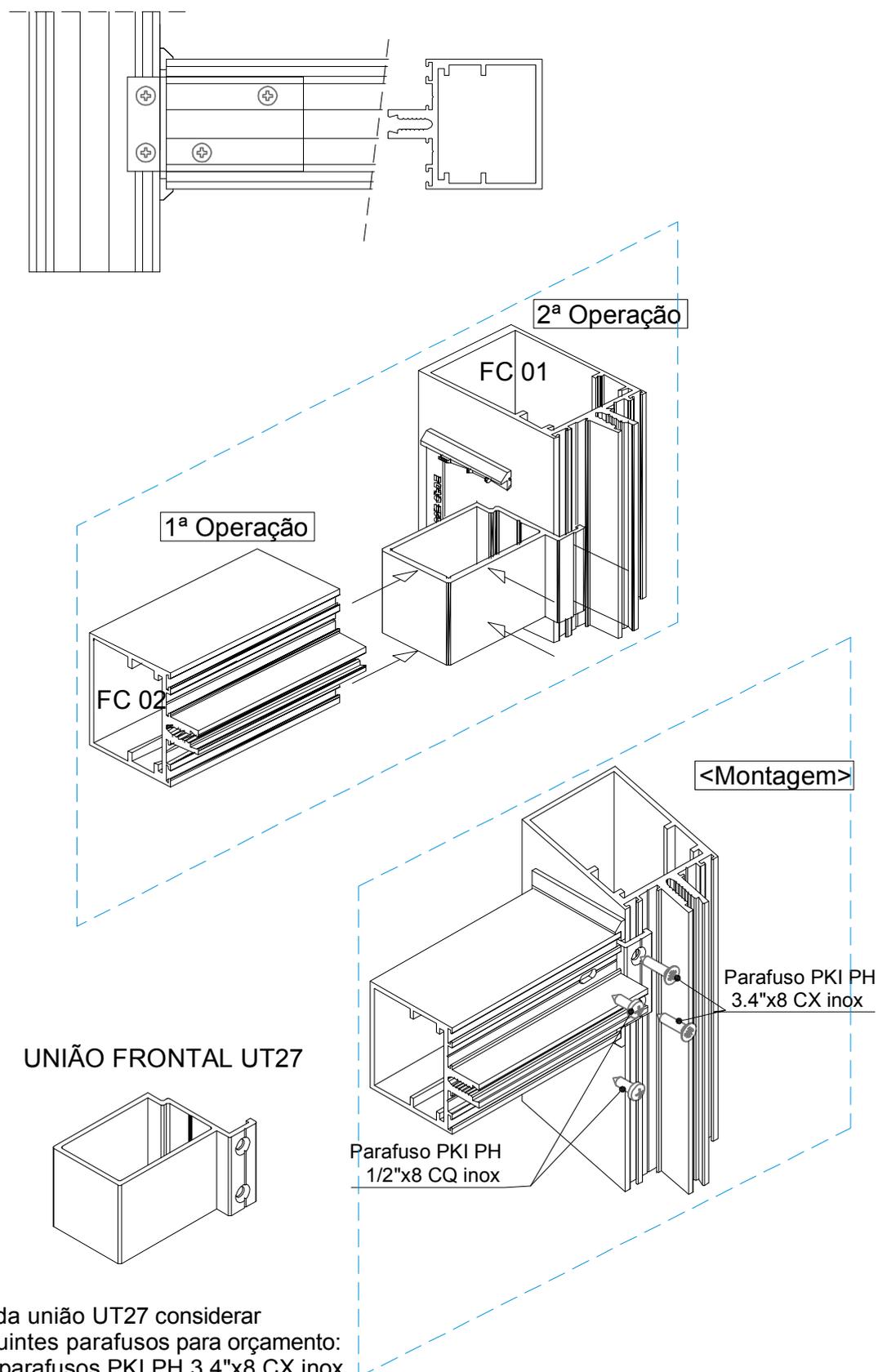
APLICAÇÃO DOS VEDANTES: Junta 2141



APLICAÇÃO DA UNIÃO P/ TRAVESSAS UT2807



APLICAÇÃO DA UNIÃO FRONTAL P/ TRAVESSAS UT27

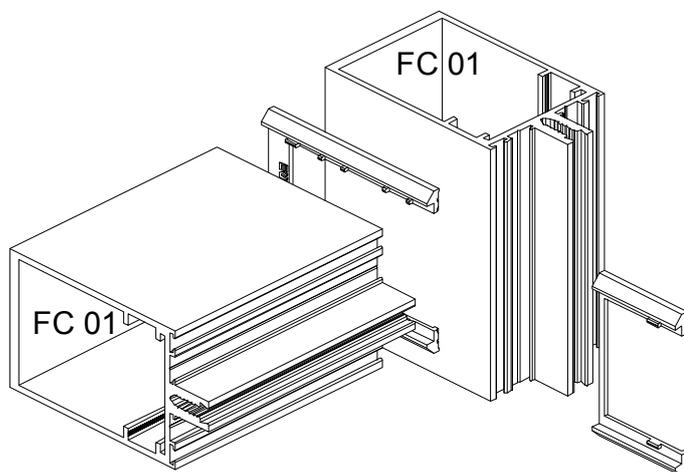


**Nota:**

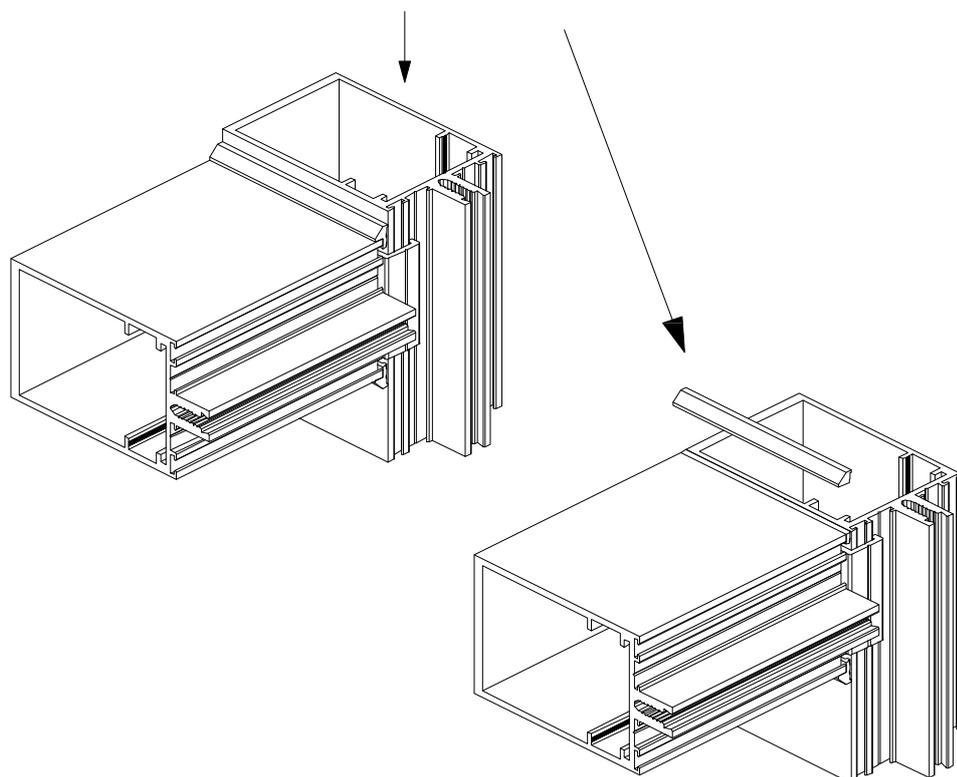
Por cada união UT27 considerar os seguintes parafusos para orçamento:

- 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

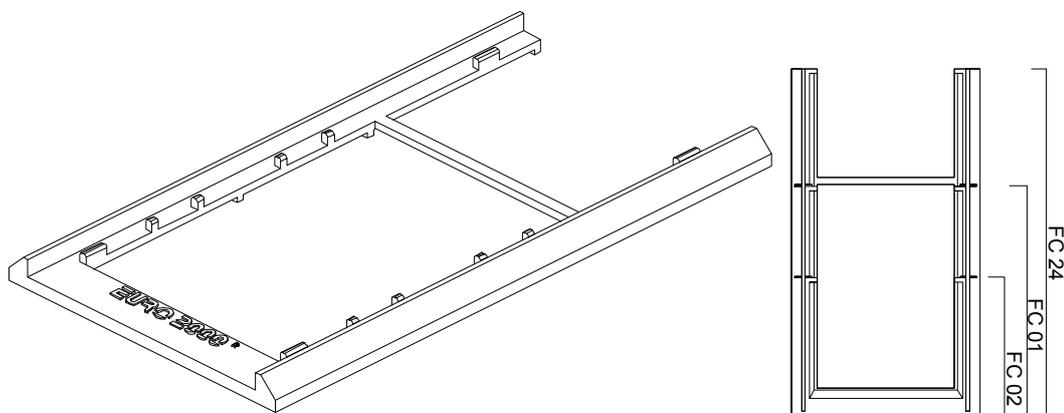


CORTAR TOPO PELA 1ª MARCA DA PEÇA



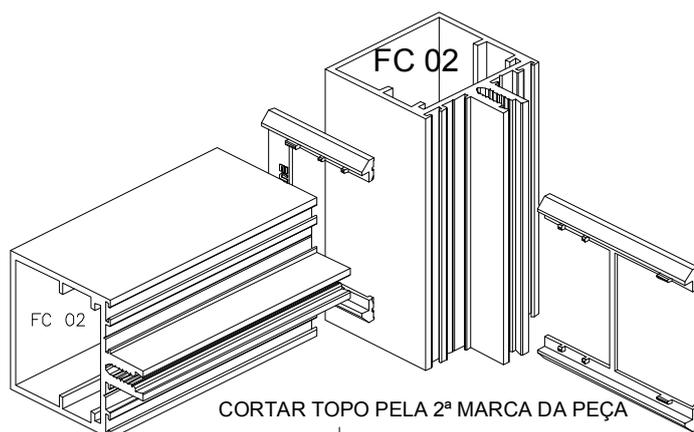
CASO A TRAVESSA FIQUE NO EXTREMO DO MONTANTE,  
CORTAR O TOPO PELA RANHURA SUPERIOR

TOPO FC UNIVERSAL: Aplicação com o perfil FC 02

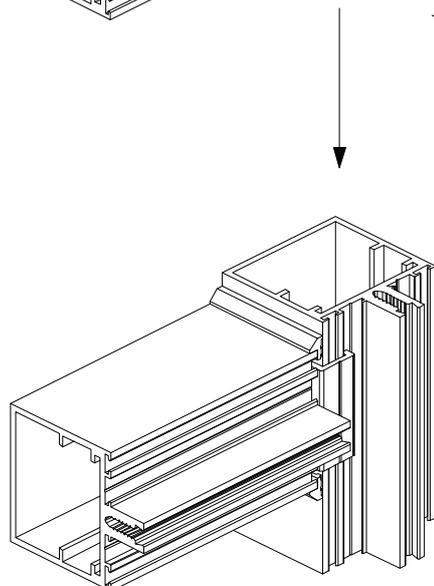


REF.º TOPO FC UNIVERSAL PRETO

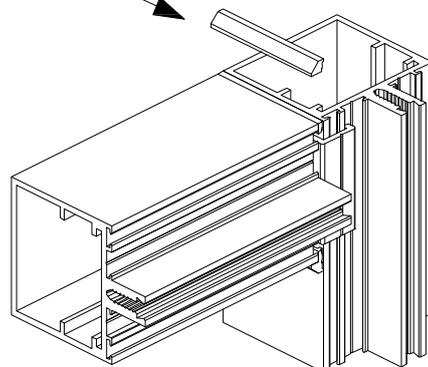
APLICAÇÃO COM O PERFIL FC 02



CORTAR TOPO PELA 2ª MARCA DA PEÇA

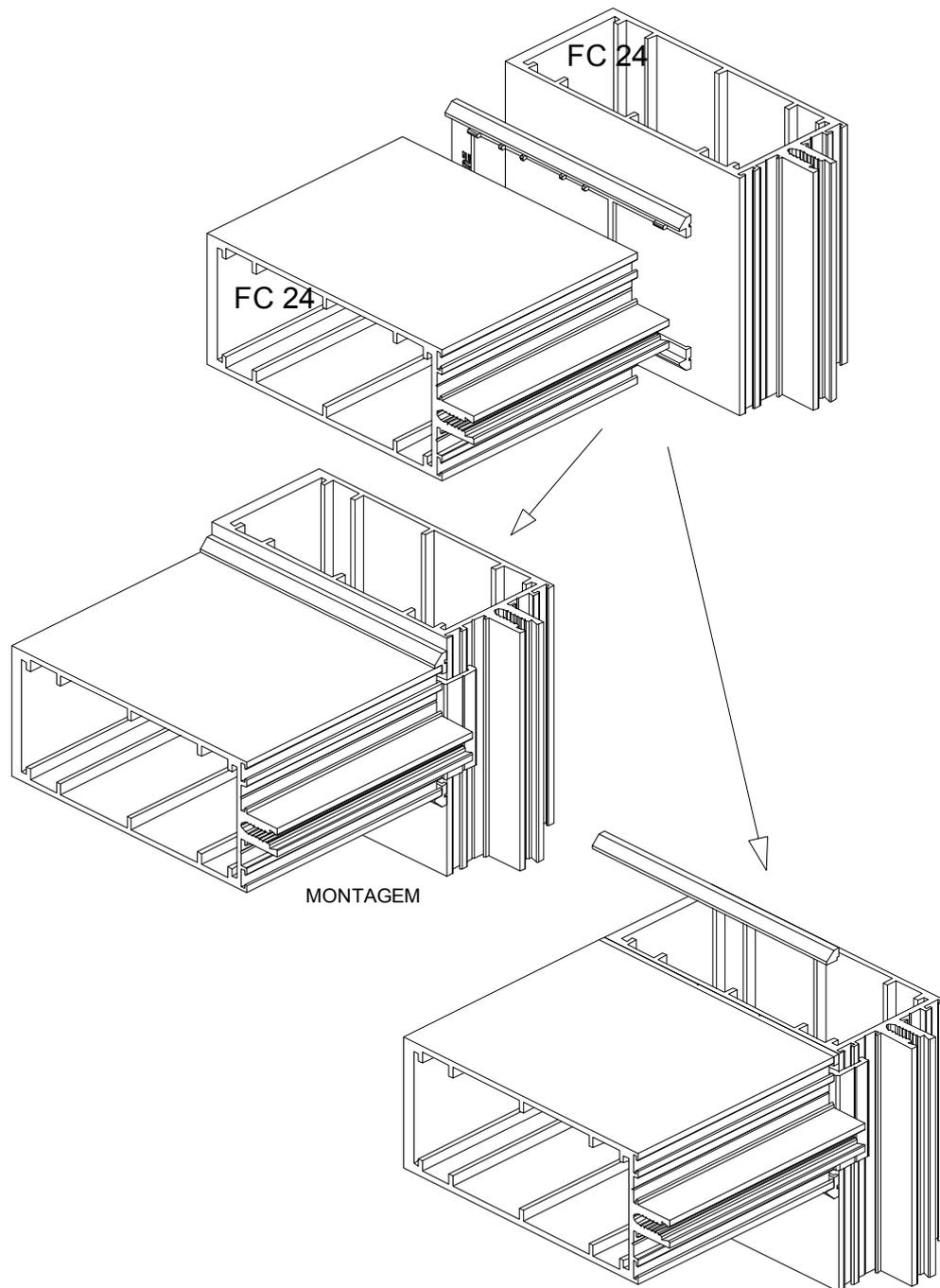


MONTAGEM



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

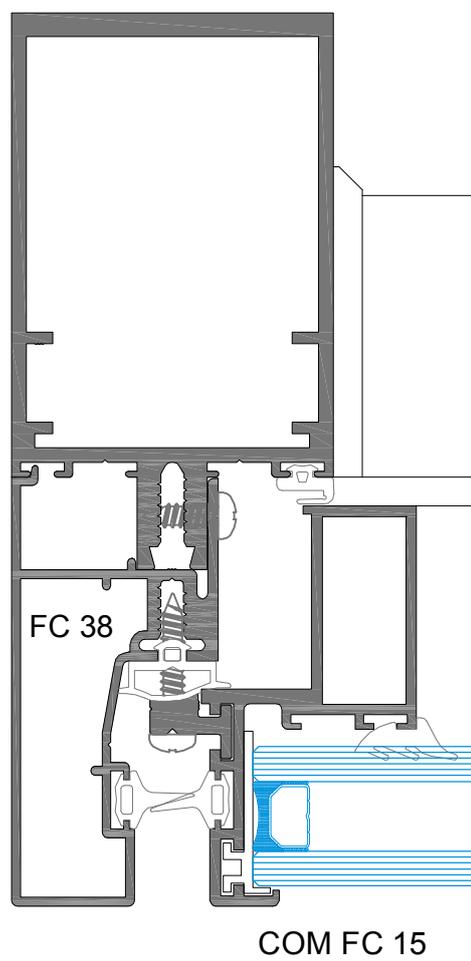
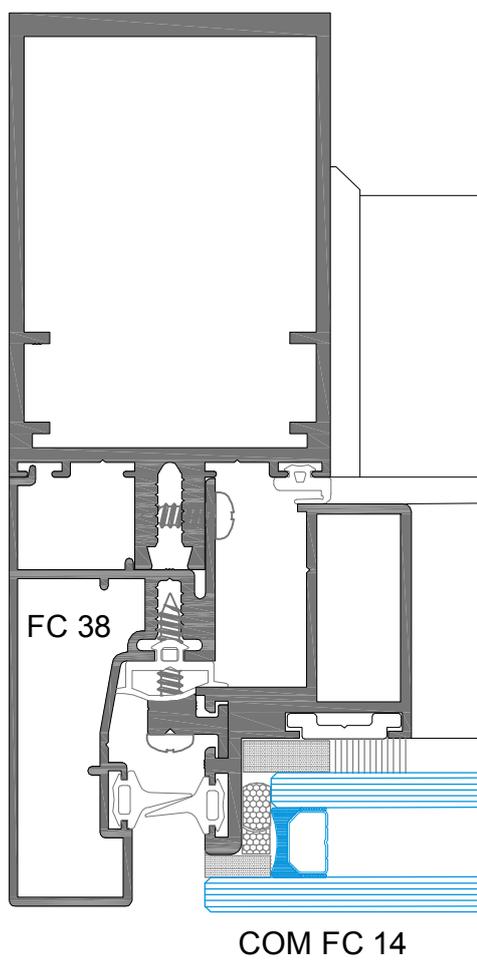
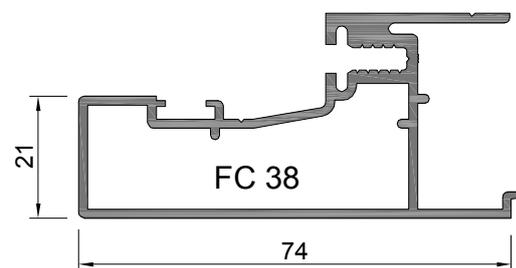
TOPO FC UNIVERSAL: Aplicação com o perfil FC 24



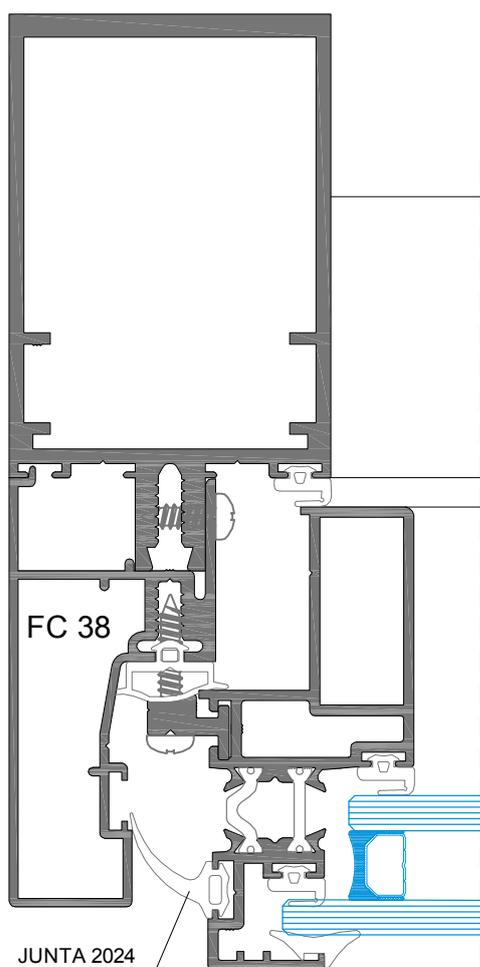
MONTAGEM

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

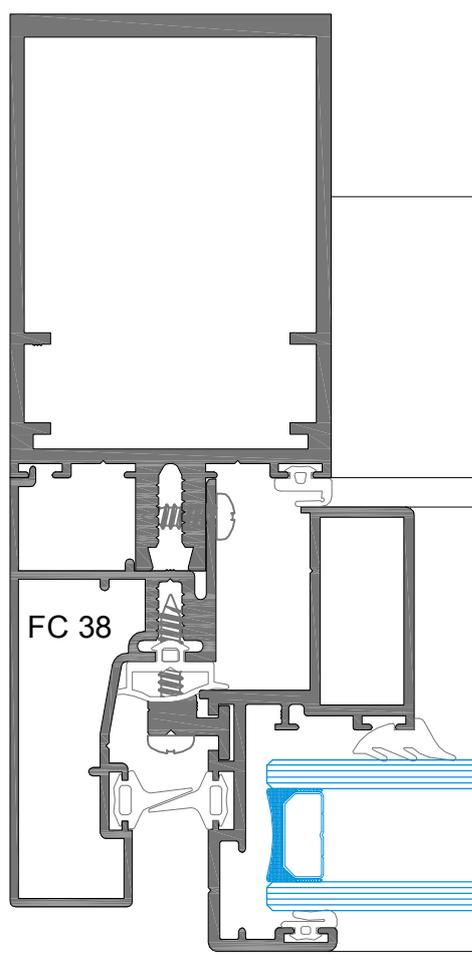
APLICAÇÃO DE PERFIL DE REMATE (PARA SEMI-OCULTA/OCULTA)



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

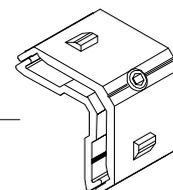
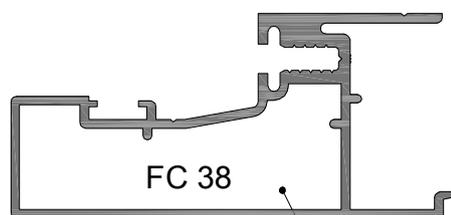


COM FC 35

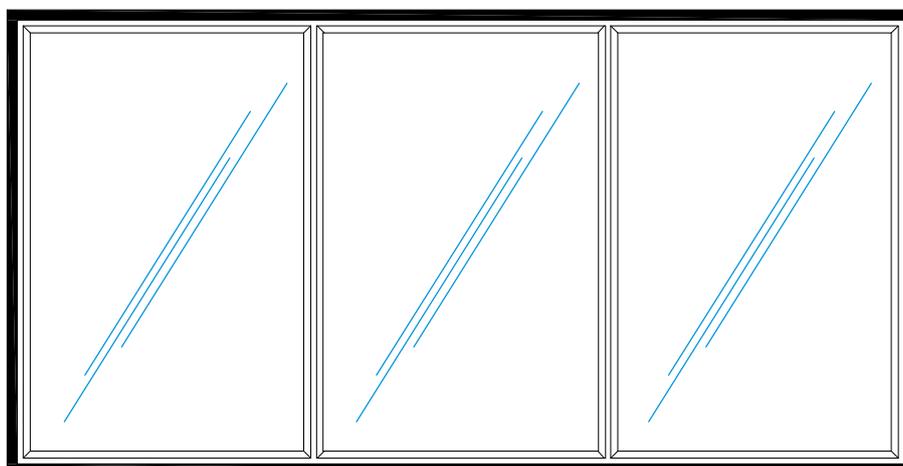


COM FC 45

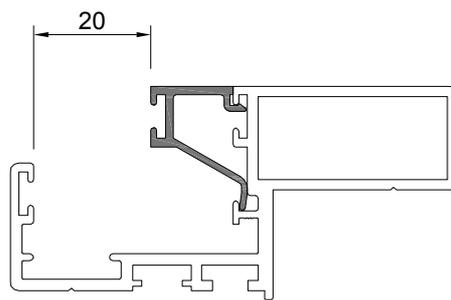
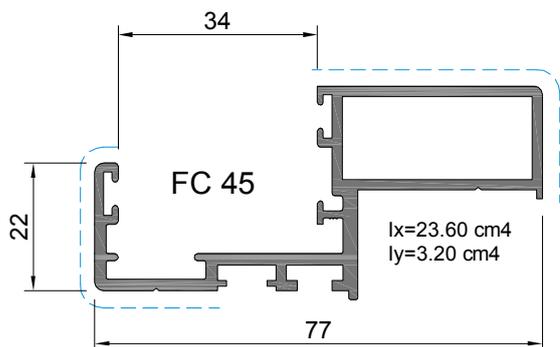
APLICAÇÃO DO PERFIL FC 38 À MEIA ESQUADRIA (PARA SEMI-OCULTA/OCULTA)



ESQUADRO 26-3214-135

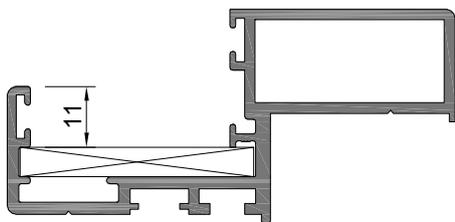


FC 45 (FACHADA SEMI-OCULTA)

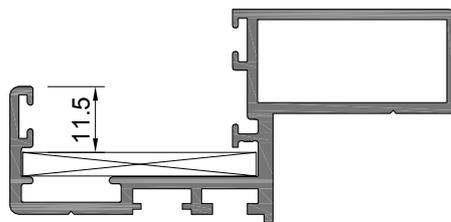


APLICAÇÃO DO BITE FC 12

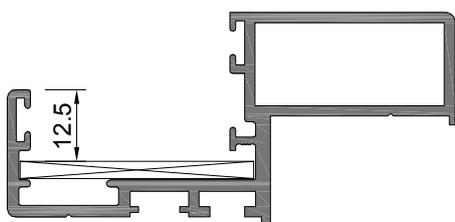
DIMENSÃO DA GOLA ÚTIL PARA VIDRO CONFORME CALÇO DE APOIO UTILIZADO



CALÇO DE APOIO 5mm



CALÇO DE APOIO 4mm



CALÇO DE APOIO 3mm

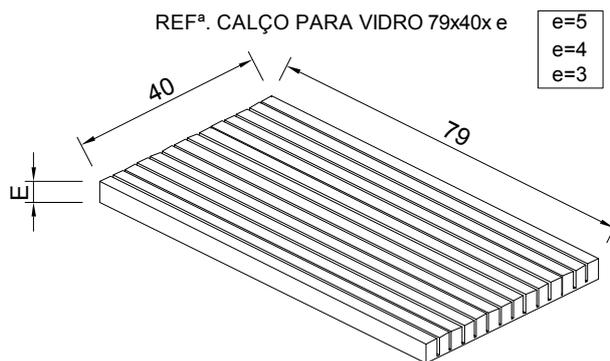
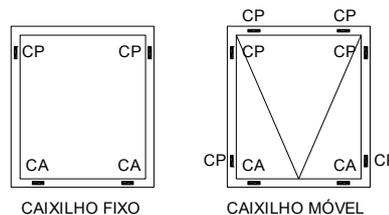
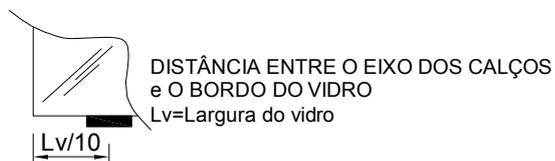


TABELA PARA DEFINIÇÃO DA APLICAÇÃO DO CALÇO DE APOIO

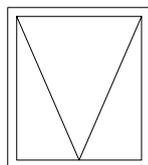
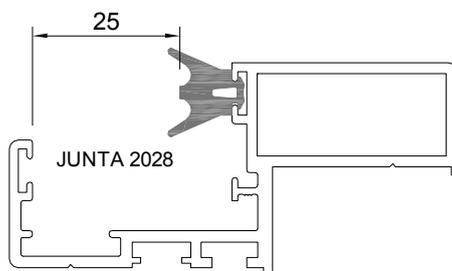
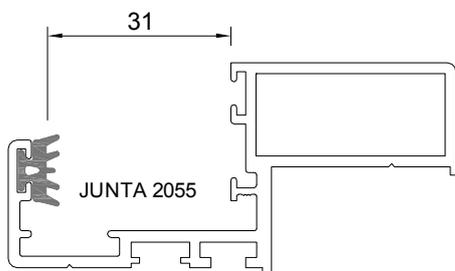
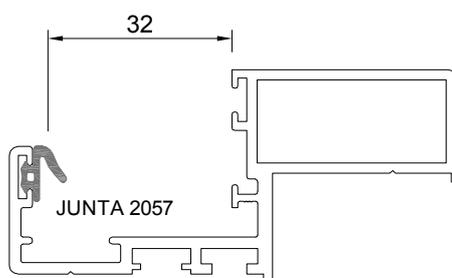
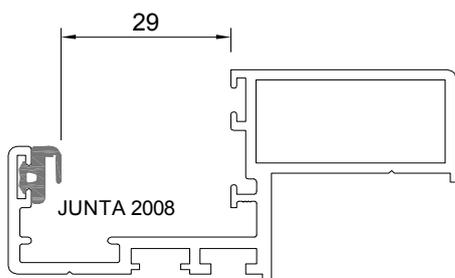
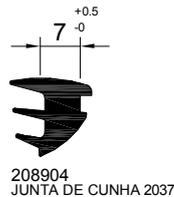
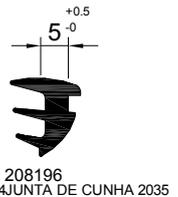
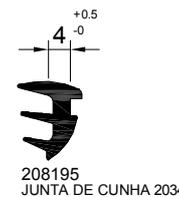
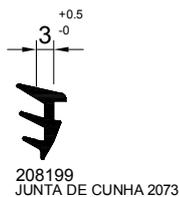
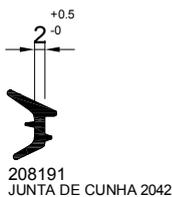
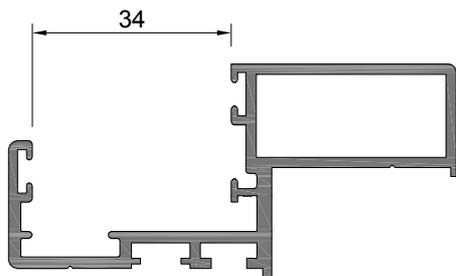
PERIMETRO DO VIDRO/2=P (m)	e
$P \leq 2.5$ m	3
$2.5 < P \leq 5$ m	4
$5 < P \leq 7$ m	5



CA= CALÇO DE APOIO  
CP= CALÇO PERIFÉRICO

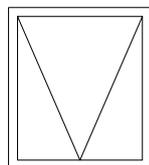


## FC 45 (FACHADA SEMI-OCULTA)



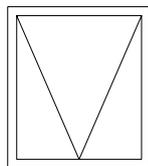
Para vãos até 75Kg:  
Conjunto braço projectante S550  
Ângulo de abertura máximo: 45°  
Altura máxima: 1500mm  
Largura máxima: 1200mm

CAIXILHO MÓVEL



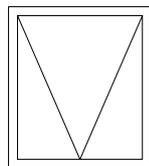
Para vãos até 120Kg:  
Conjunto braço projectante ST26 + Kit ajustável S7280  
Ângulo de abertura: 15°  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm

CAIXILHO MÓVEL



Para vãos até 100Kg:  
Conjunto braço projectante ST26  
Ângulo de abertura: 20°  
Altura máxima: 2000mm  
Altura mínima: 800mm  
Largura máxima: 2200mm

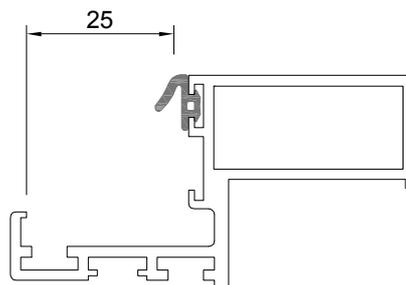
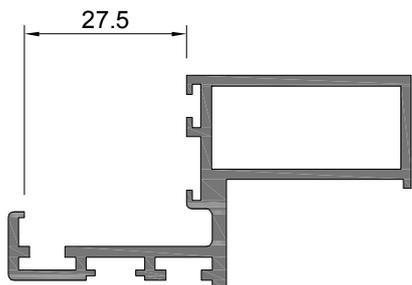
CAIXILHO MÓVEL



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

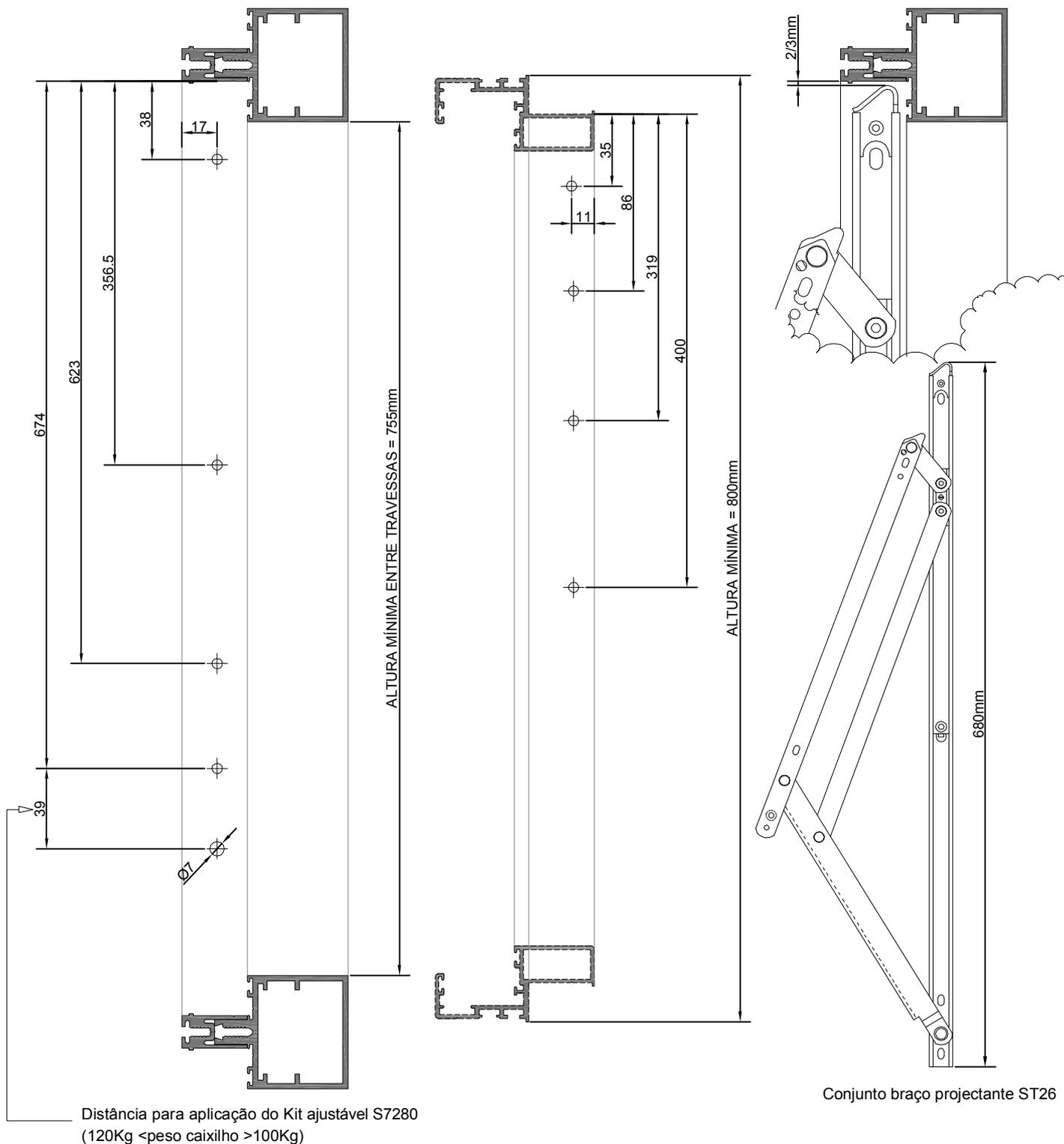
CAIXILHO MÓVEL

## 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 ±2mm)



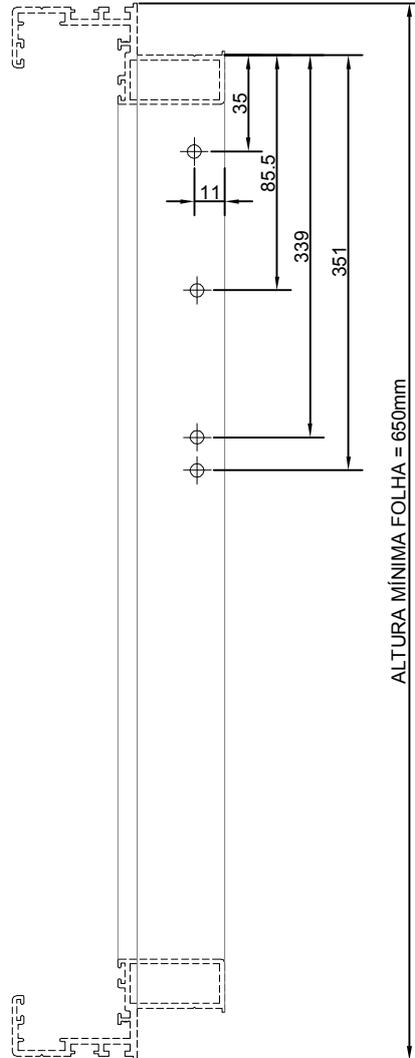
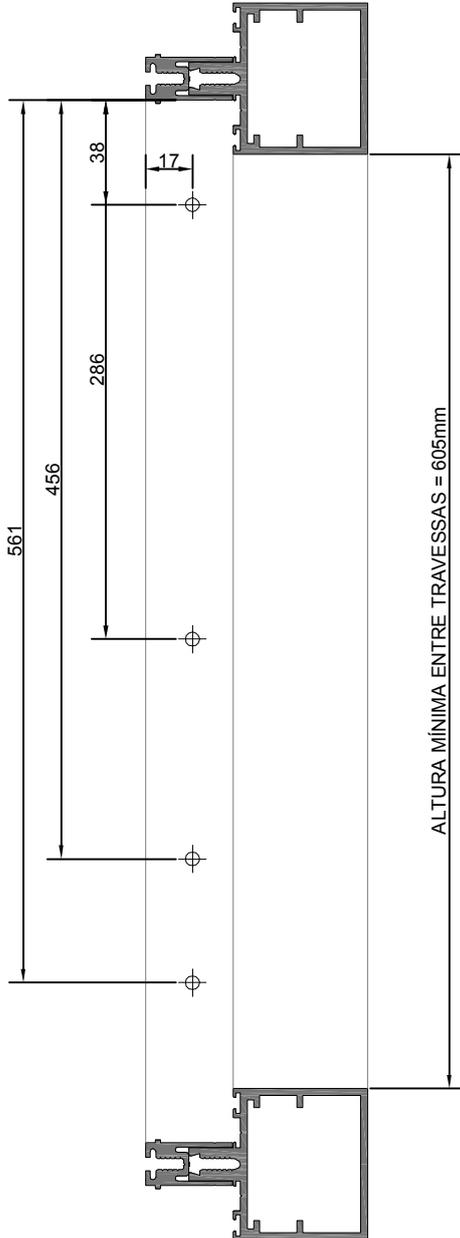
**Para vãos até 100Kg:**

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

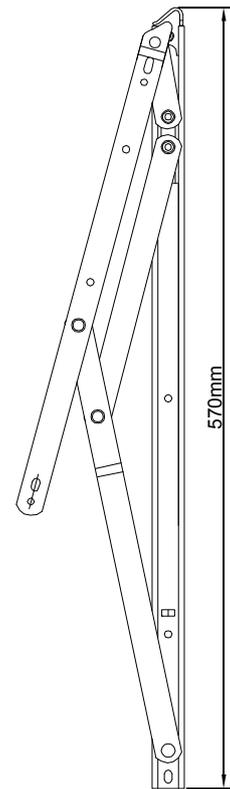
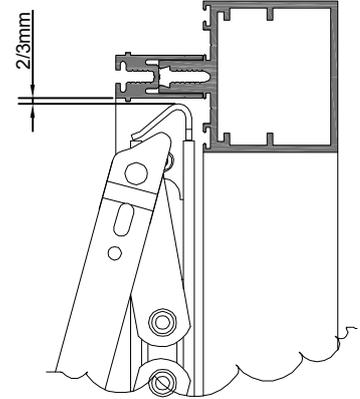
**Para vãos até 120Kg (usar KIT S7280):**

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 ±2mm)



Conjunto braço projectante S550

Para vãos até 75Kg:

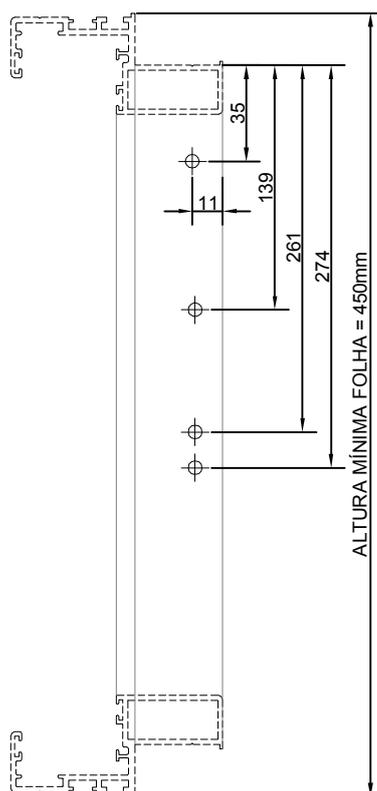
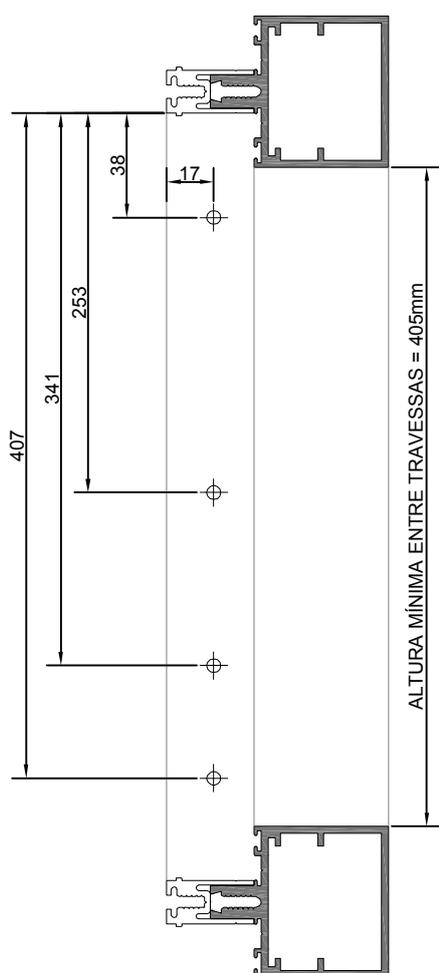
Ângulo de abertura máximo: 45°

Altura máxima: 1500mm

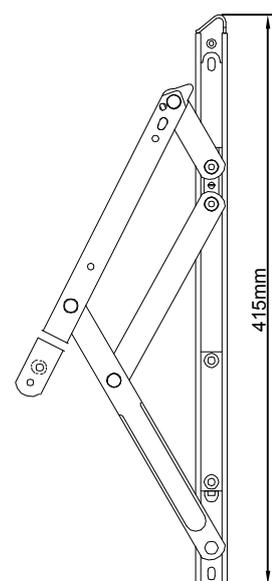
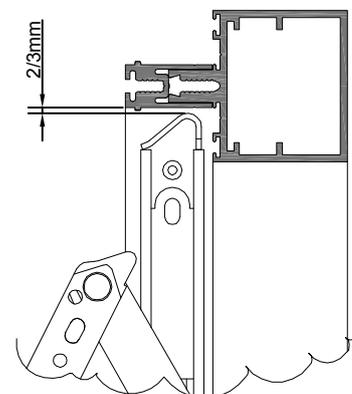
Altura mínima: 650mm

Largura máxima: 2200mm

## 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:  $50^\circ$

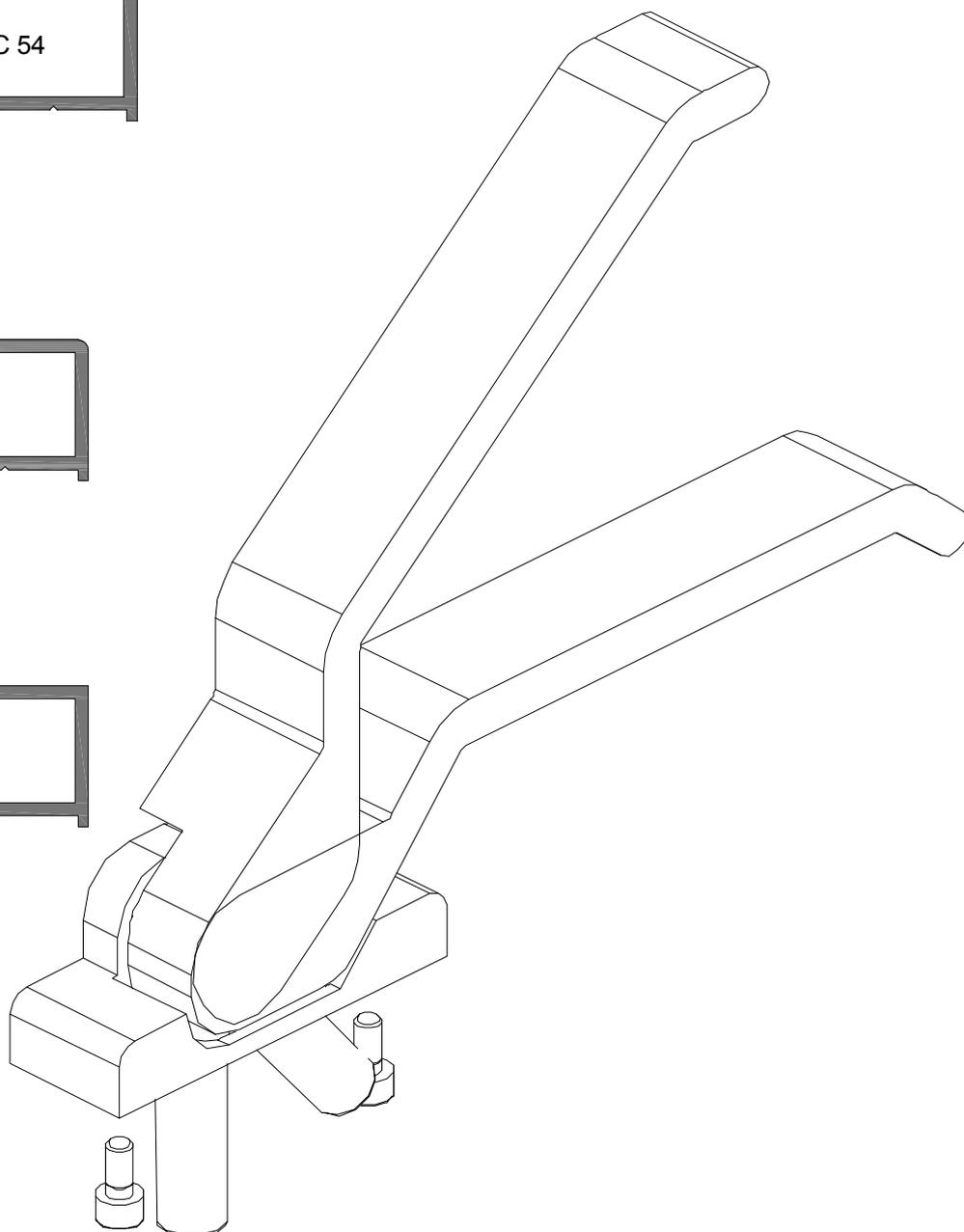
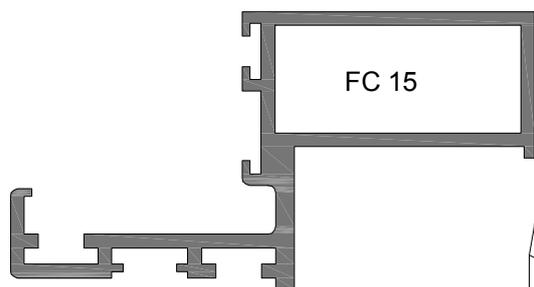
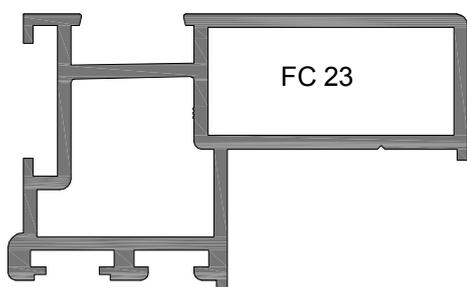
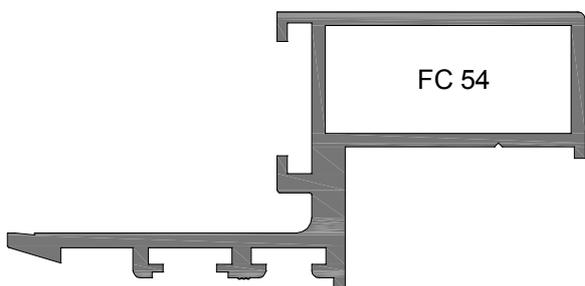
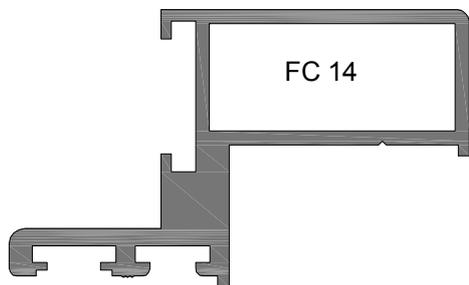
Altura máxima folha: 1090mm

Altura mínima folha: 450mm

Largura máxima: 2200mm

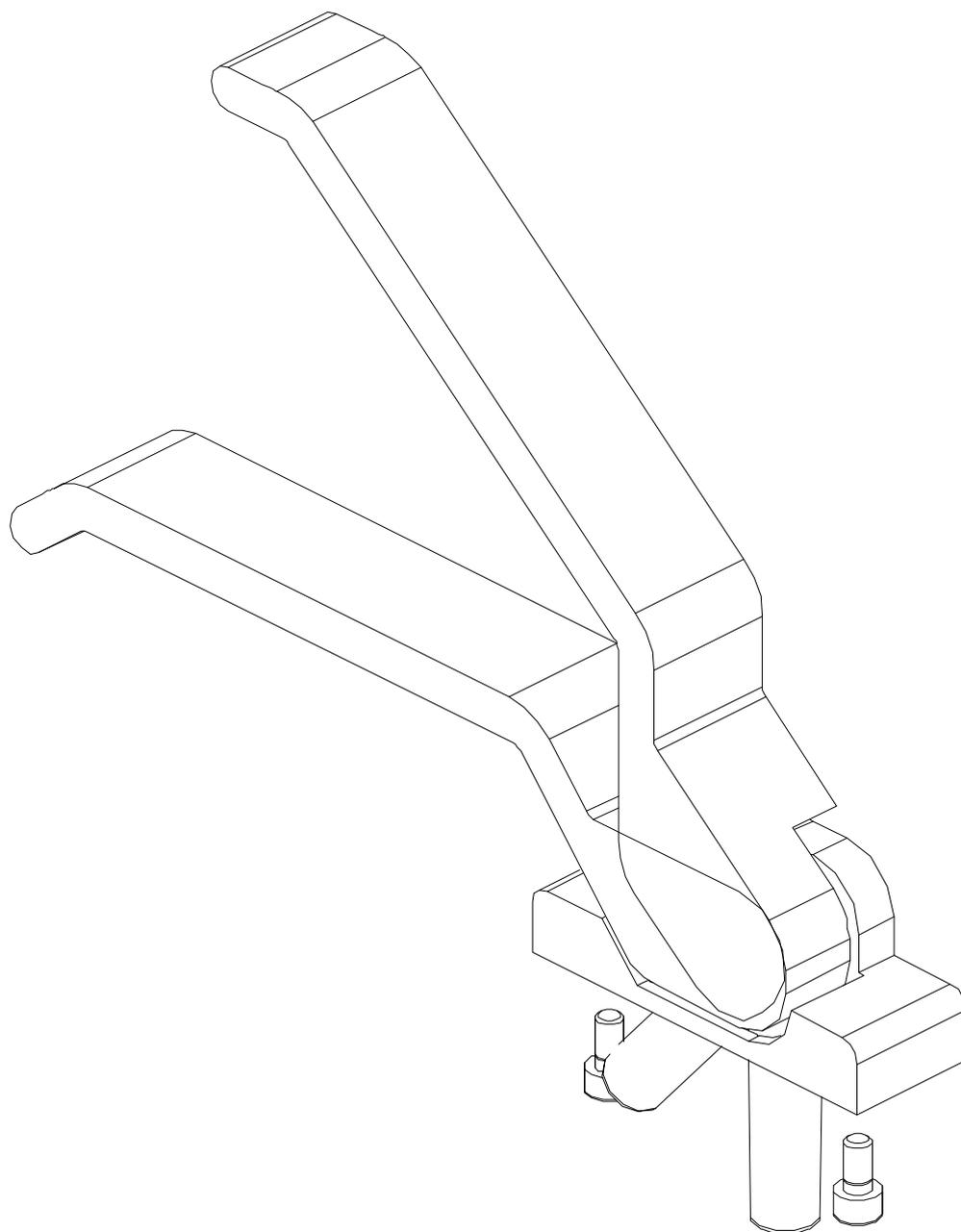
FACHADAS SEMI-OCULTA / OCULTA / HORIZONTE  
MANÍPULOS PARA JANELAS PROJECTANTES

PARA OS SEGUINTE PERFIS:

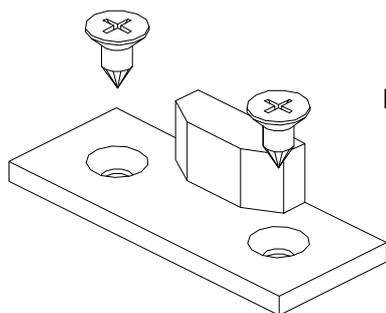


REF.ª: MANÍPULO ARTICULADO i33 DIREITO Preto

FACHADAS SEMI-OCULTA / OCULTA / HORIZONTE



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

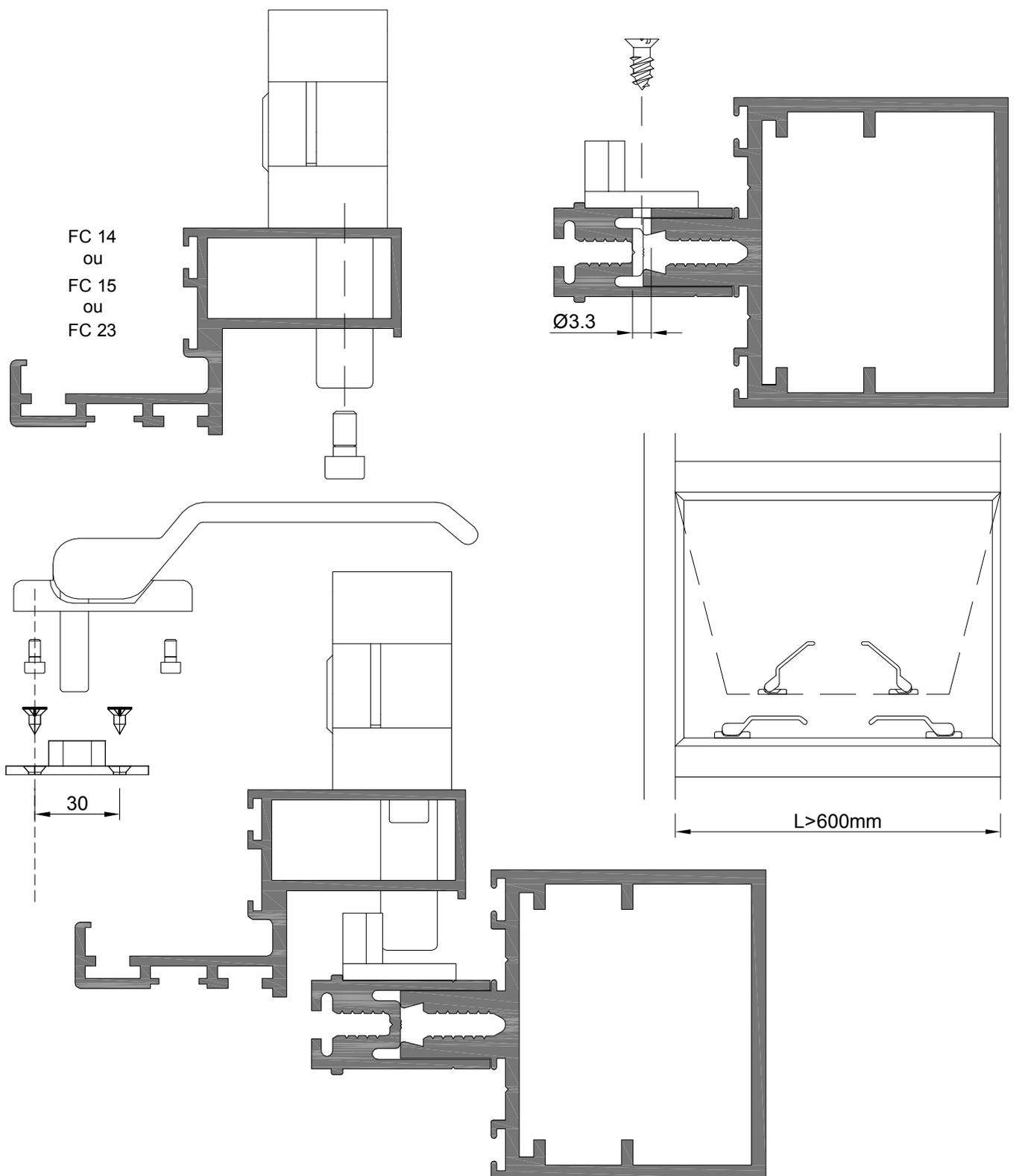


REF.<sup>a</sup>: CONTRA-FECHO 5708 Acetinado Natural

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



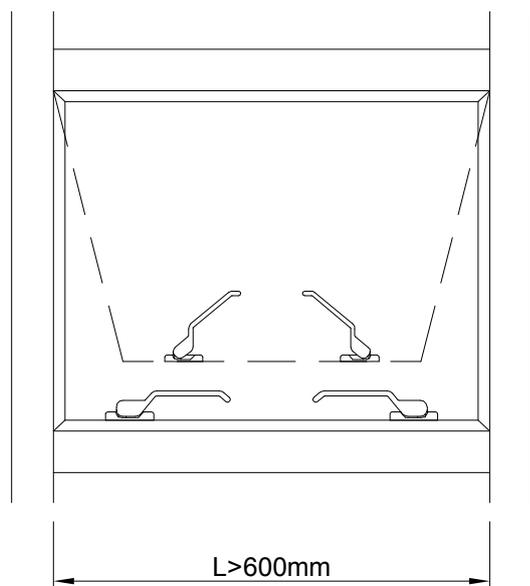
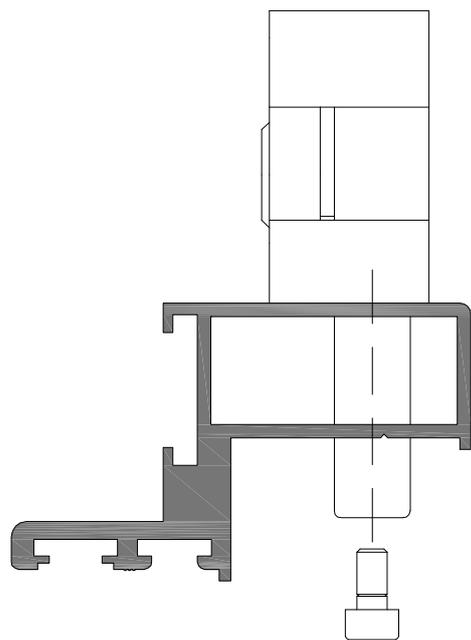
APLICAR EM PROJECTANTE COM L < 600mm

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

APLICAR EM PROJECTANTE COM L > 600mm

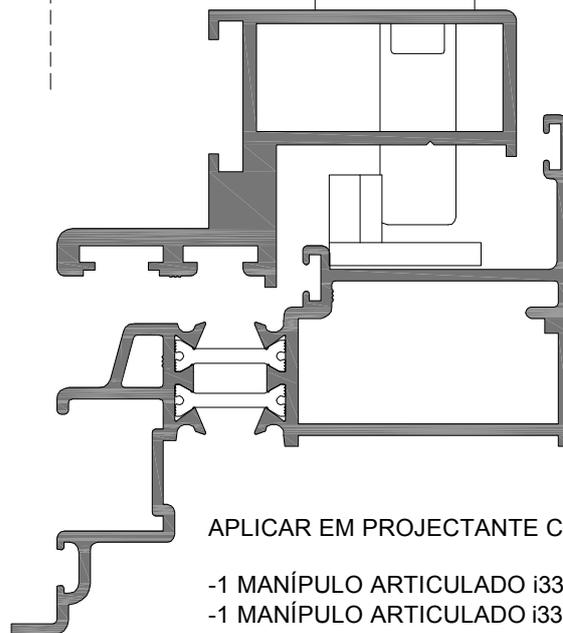
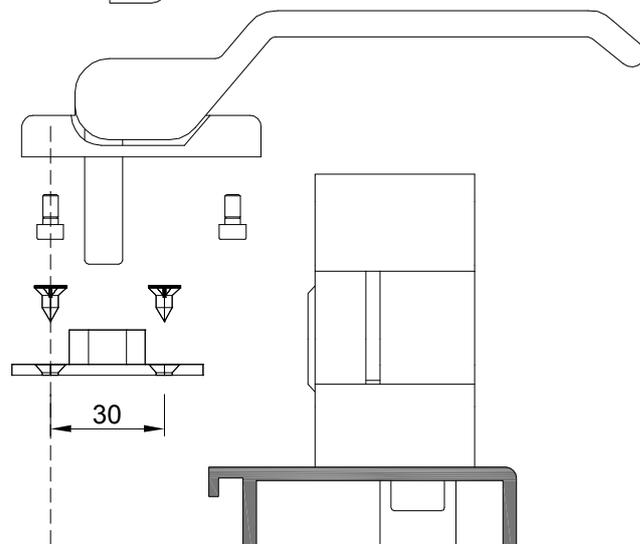
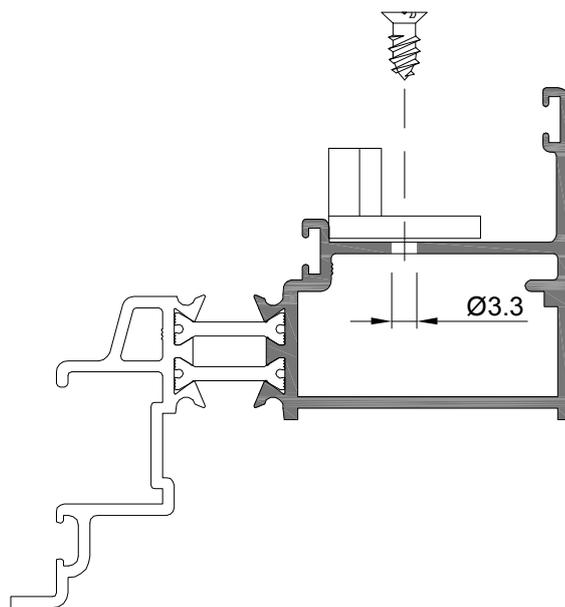
- 1 MANÍPULO ARTICULADO i33 ESQUERDO
- 1 MANÍPULO ARTICULADO i33 DIREITO
- 2 CONTRA-FECHOS 5708

MONTAGEM HORIZONTE



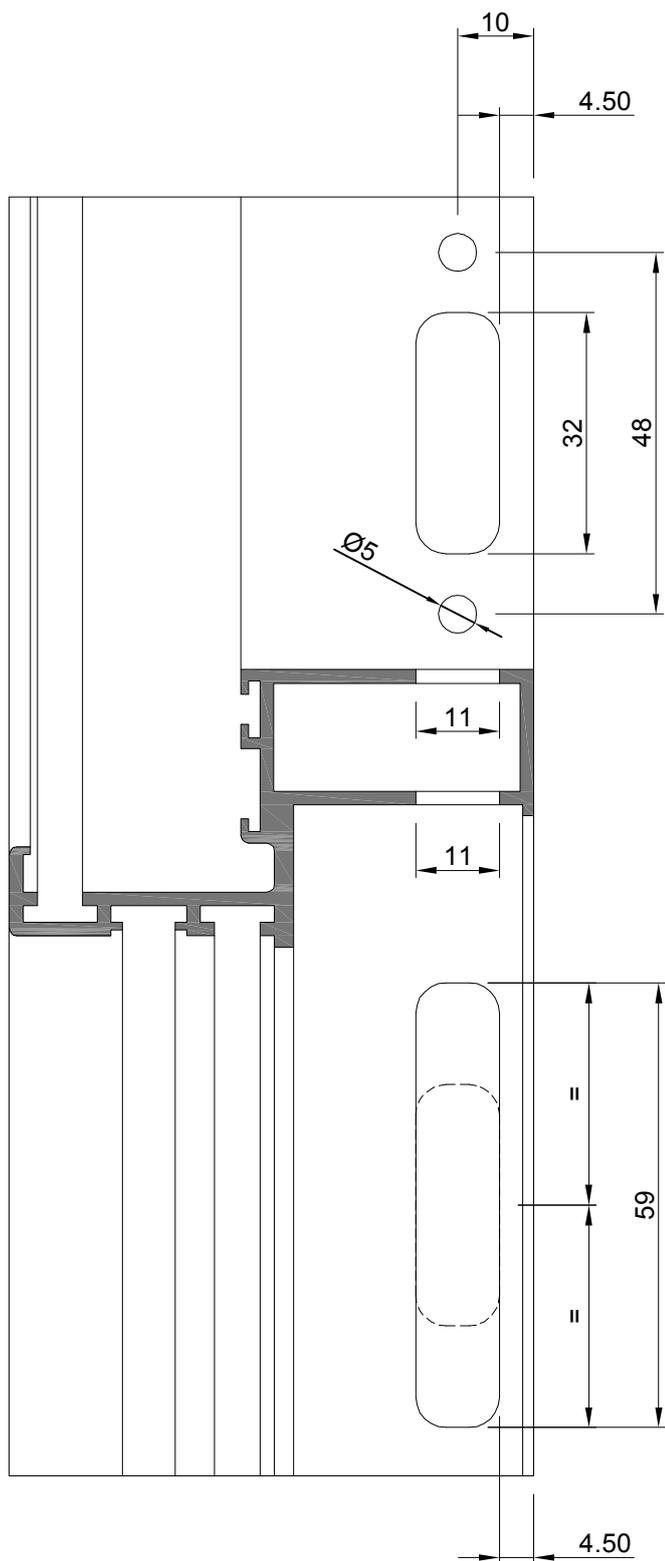
APLICAR EM PROJECTANTE COM L < 600mm

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

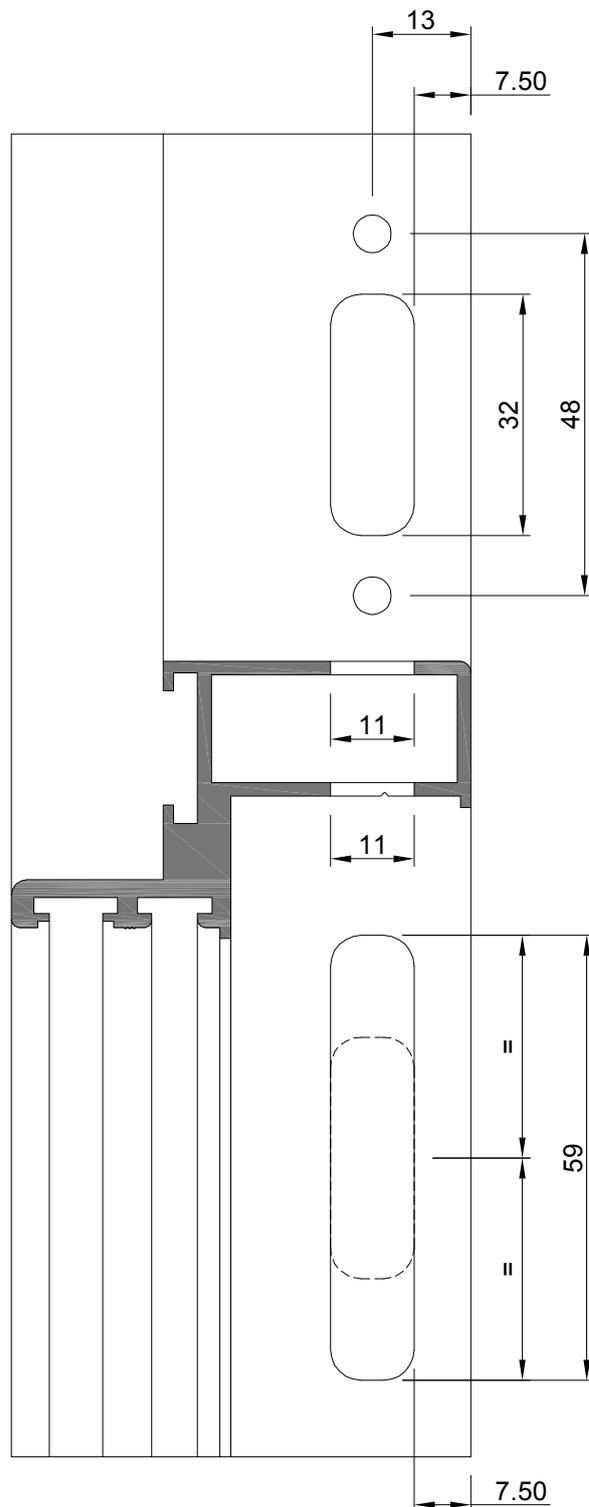


APLICAR EM PROJECTANTE COM L > 600mm

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

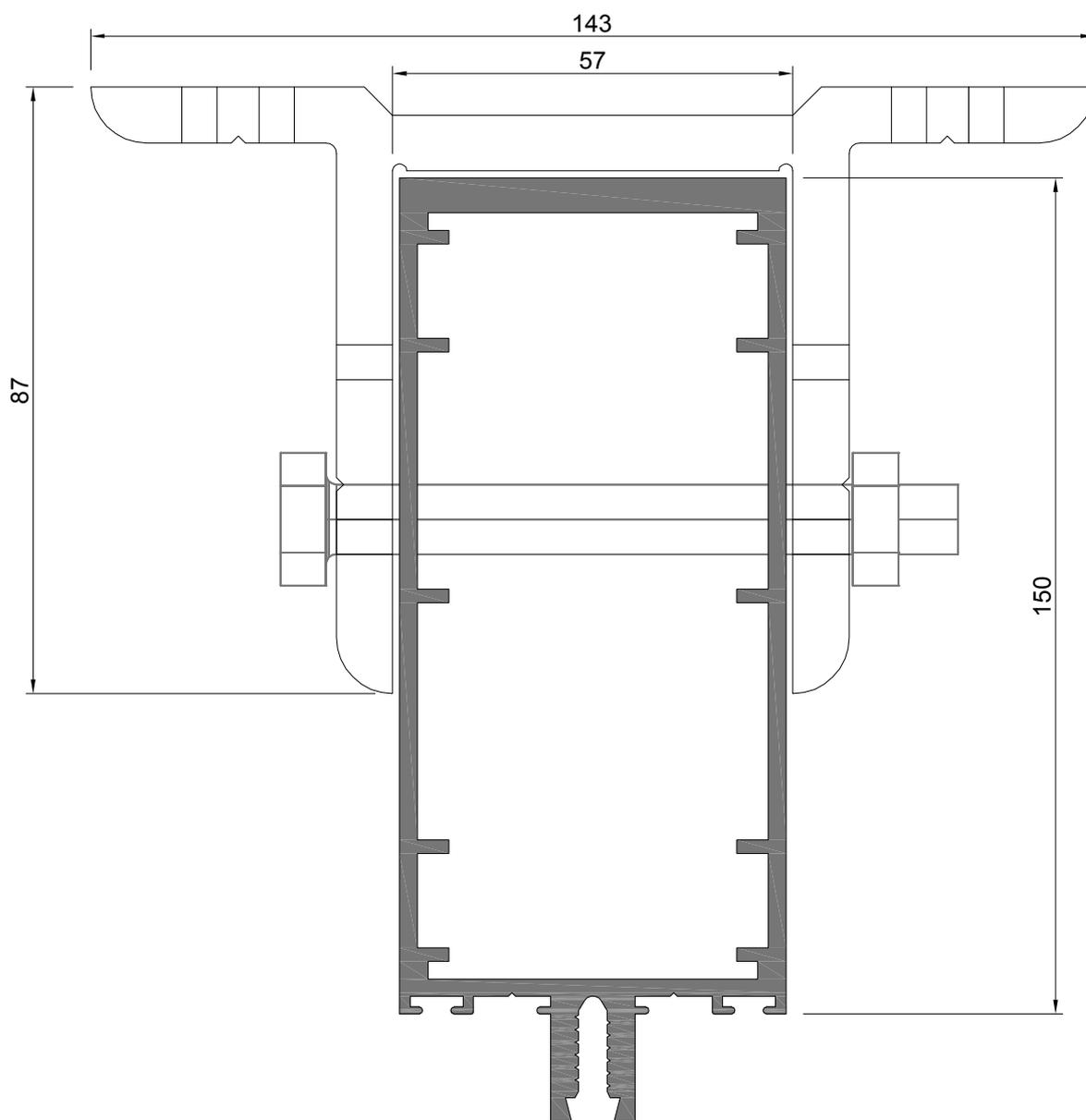
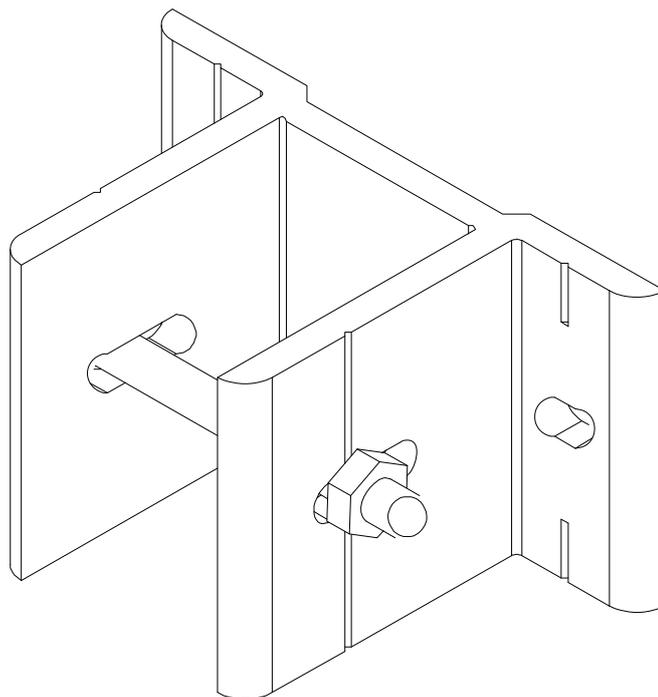


EXECUTAR EM FC SEMI-OCULTA  
ou FC OCULTA

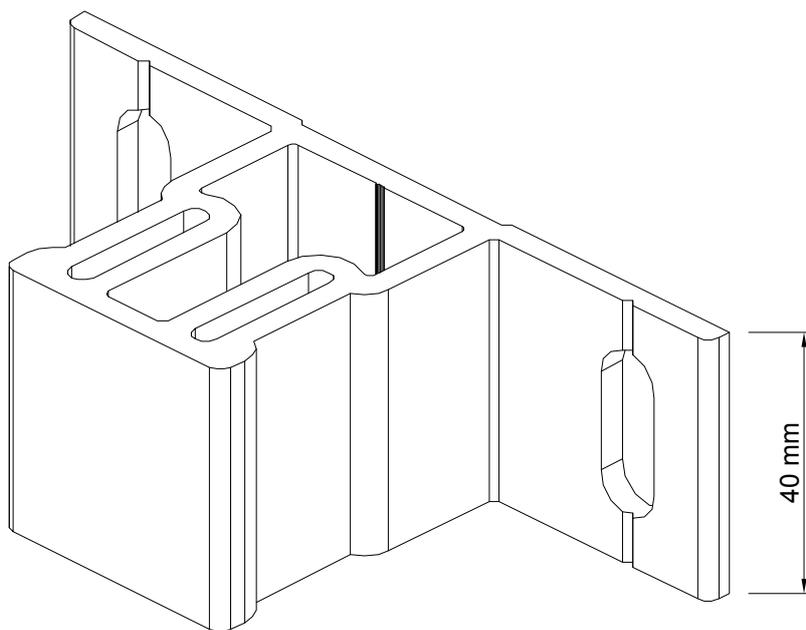


EXECUTAR EM FC HORIZONTE

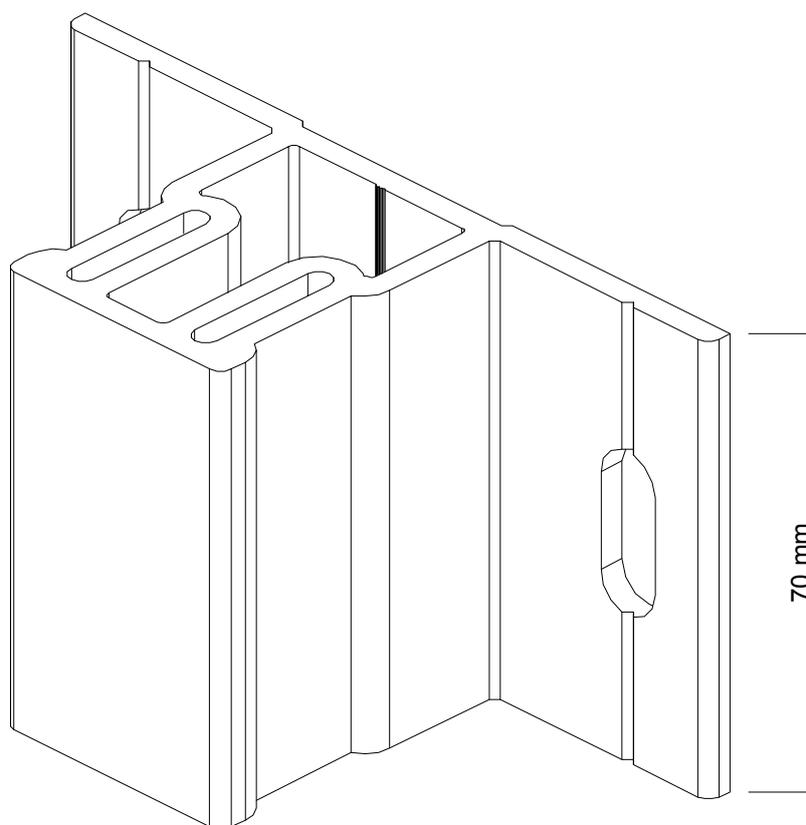
NOVOS FIXADORES PARA MONTANTES FC 01, FC 02 e FC 24



FIXADORES PARA MONTANTES FC 01, FC 02 e FC 24

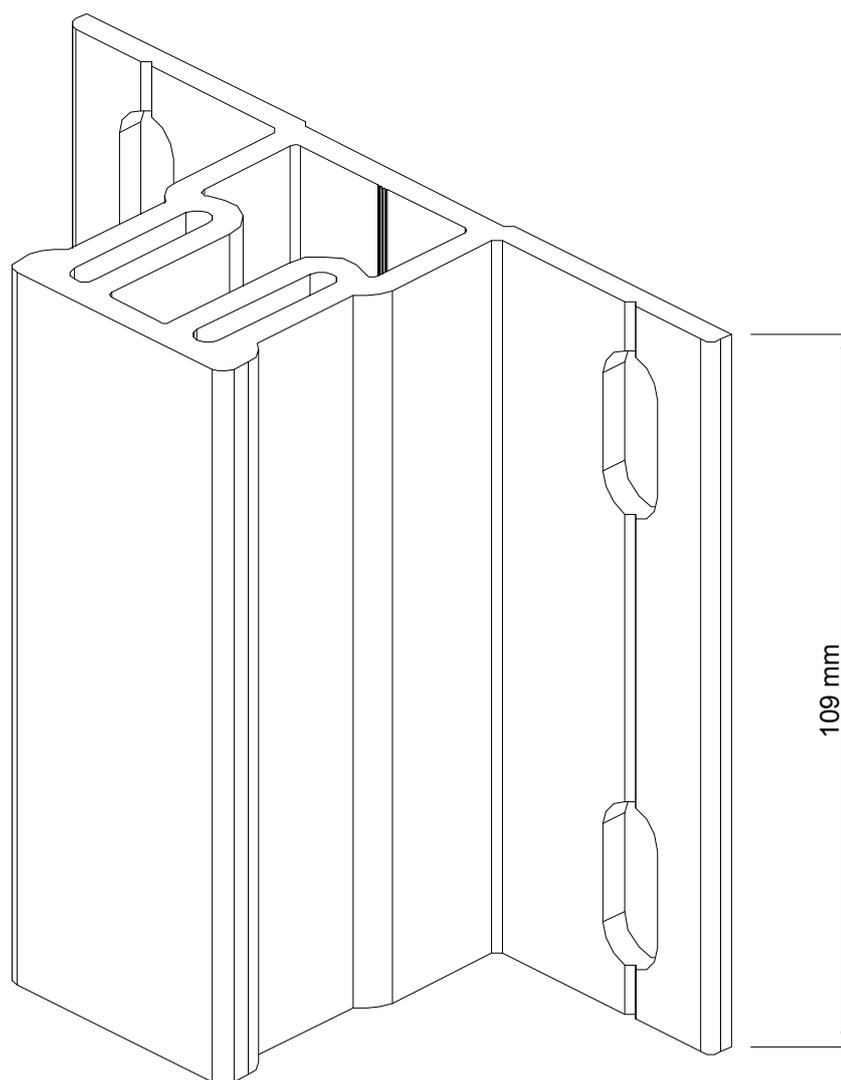


REF.ª: FIXADOR MONTANTE FM2811 Bruto (para o perfil FC 02)

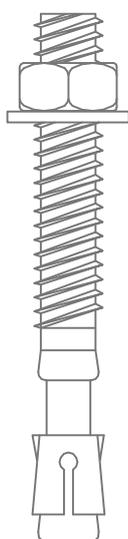


REF.ª: FIXADOR MONTANTE FM2812 Bruto (para o perfil FC 01)

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



REF.ª: FIXADOR MONTANTE FM2813 Bruto (para o perfil FC 24)



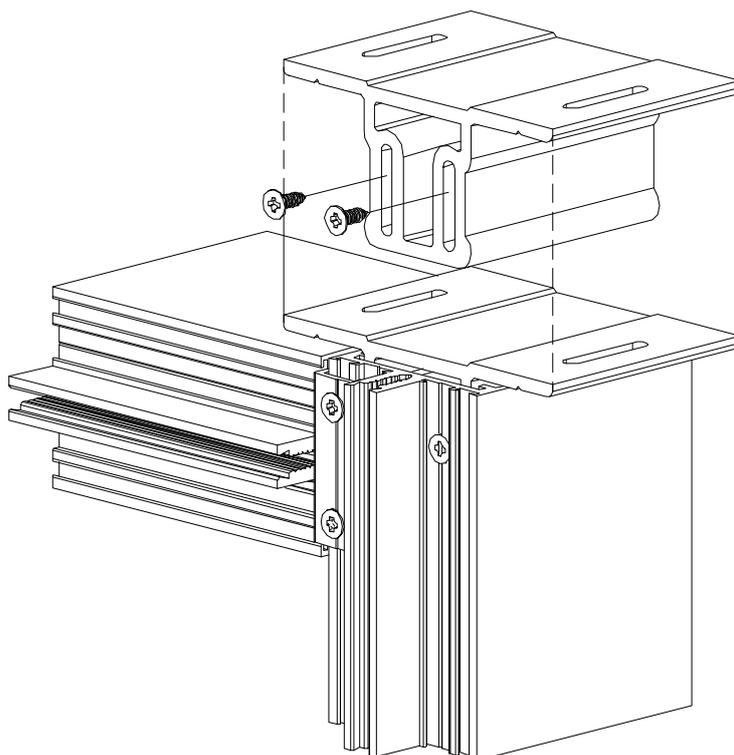
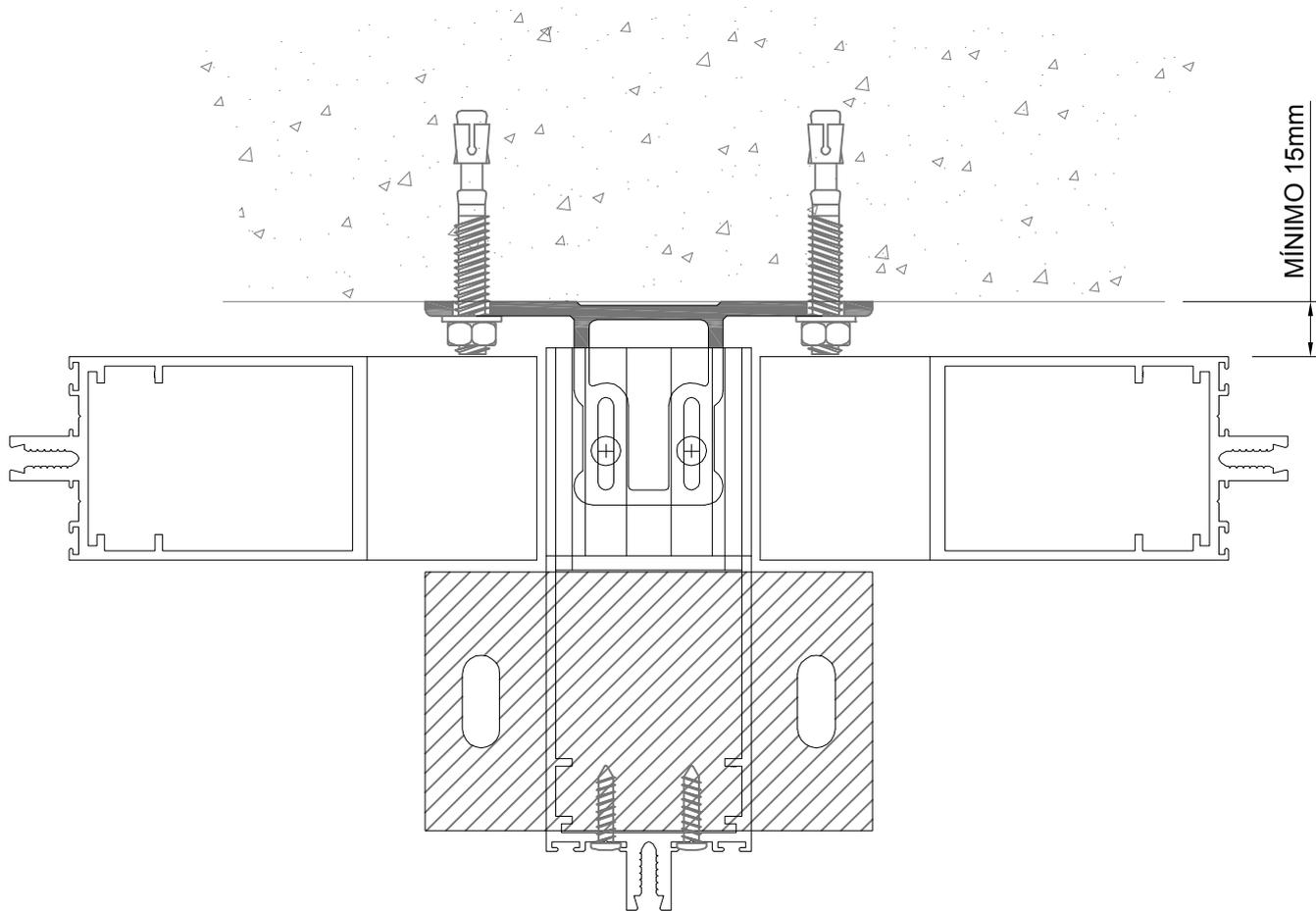
REF.ª: BUCHA SEGM. M8x75 PAR 101

para fixador 2811 --&gt; 2 BUCHAS

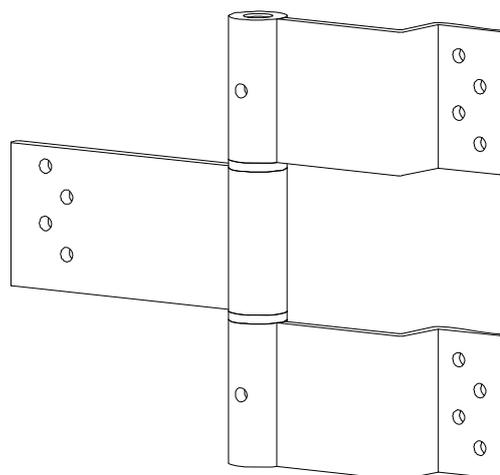
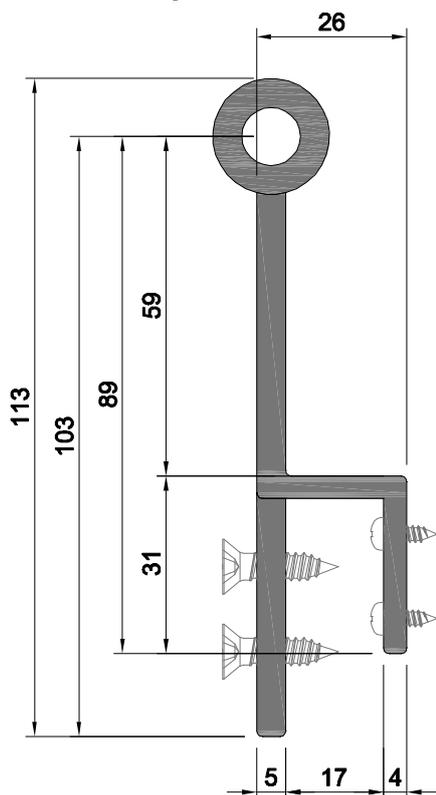
para fixador 2812 --&gt; 2 BUCHAS

para fixador 2813 --&gt; 4 BUCHAS

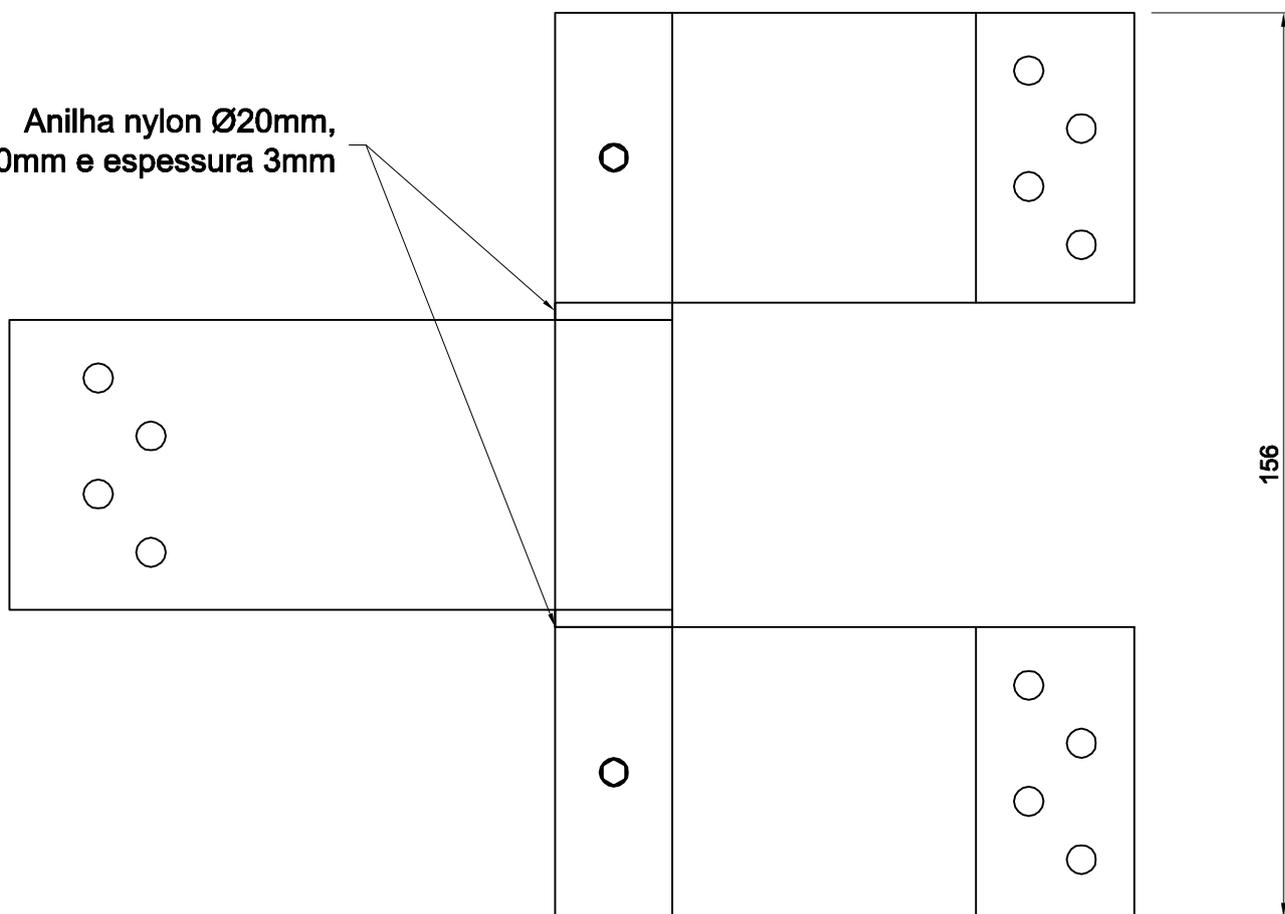
TOPO FC UNIVERSAL: Aplicação com o perfil FC 24



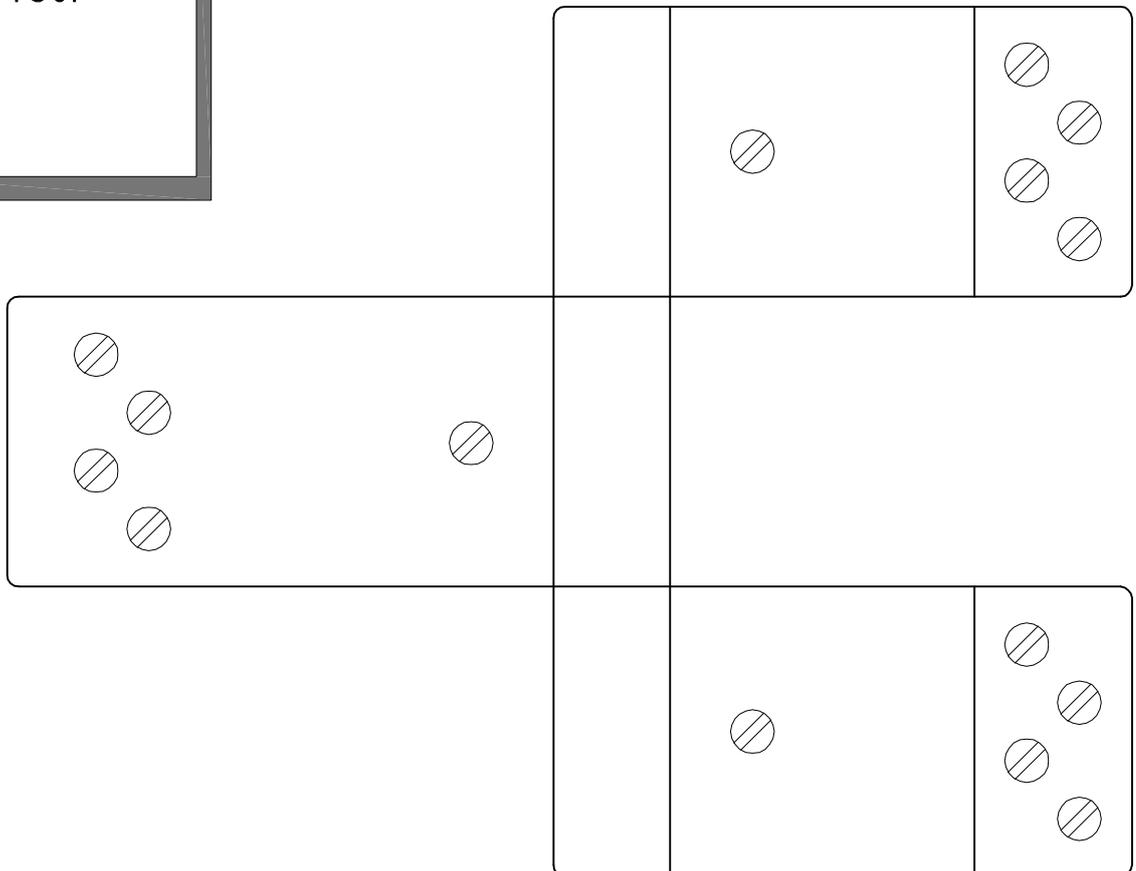
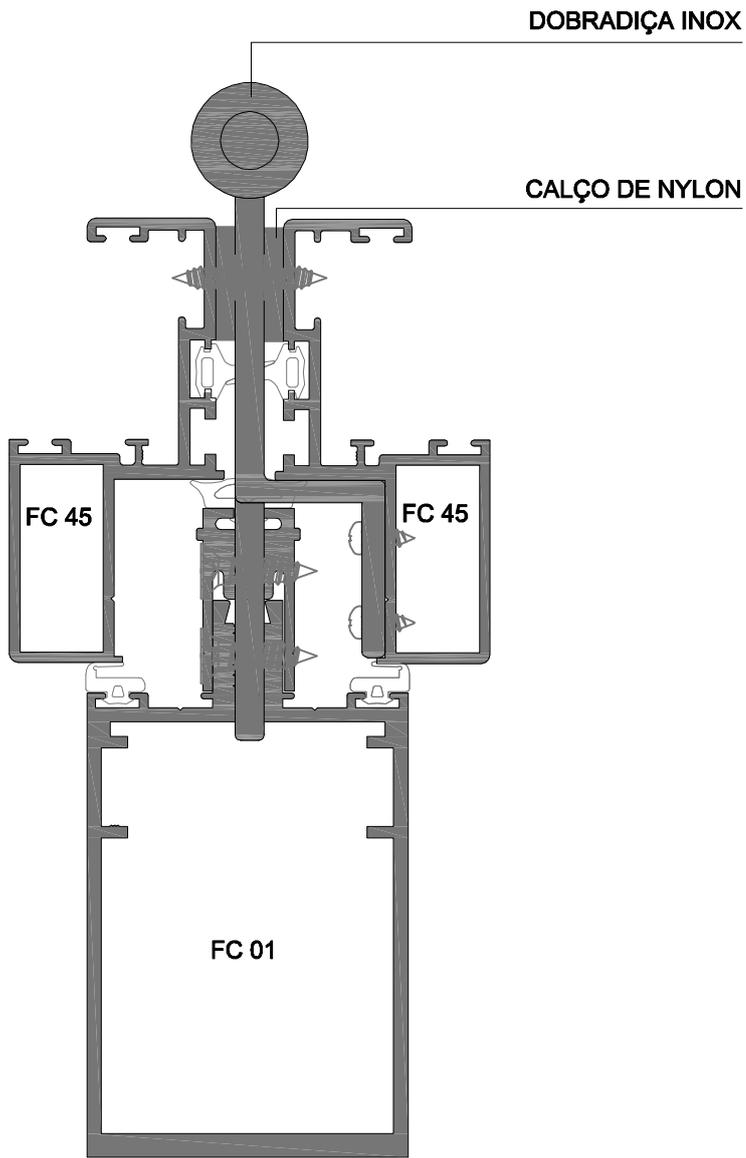
DOBRADIÇA INOX PARA FC



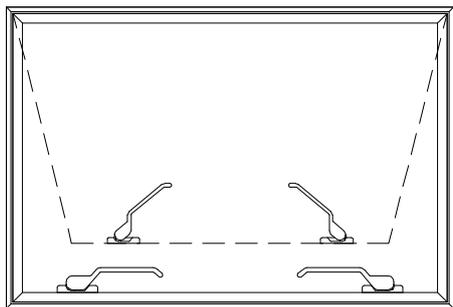
Anilha nylon Ø20mm,  
furo Ø10mm e espessura 3mm



PORMENOR DE FIXAÇÃO DA DOBRADIÇA INOX PARA FC



JANELA PROJECTANTE  
COM OS PERFIS FC 65 e FC 66

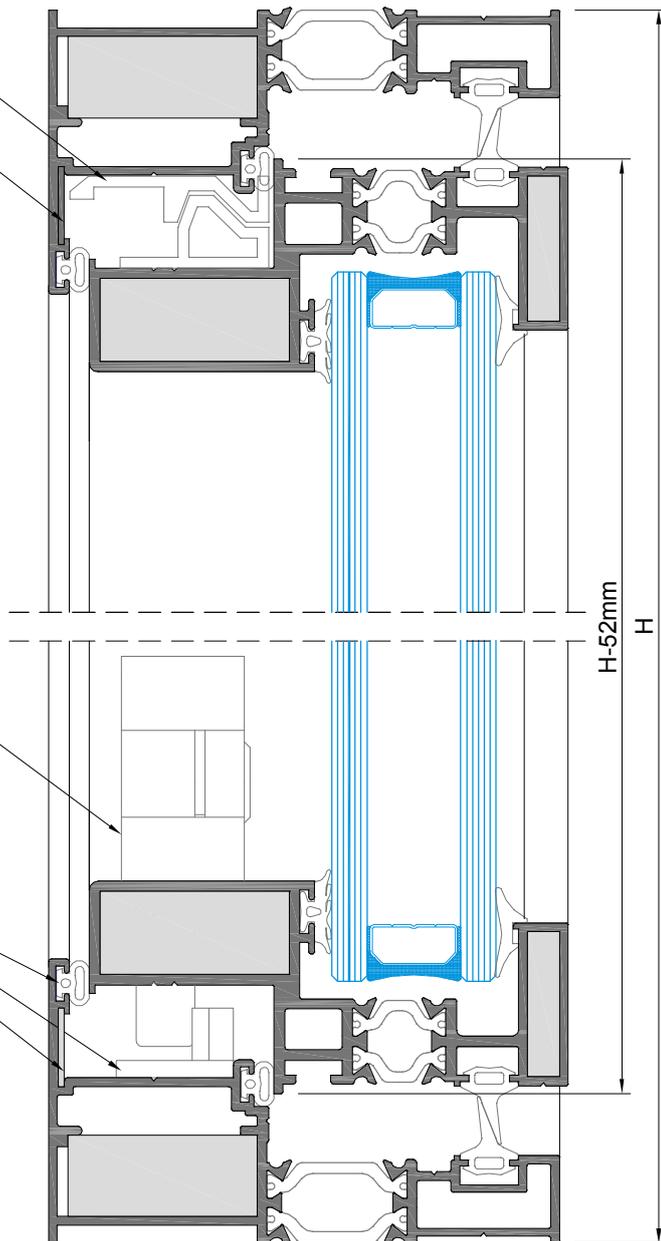


CONJ. FIXAÇÃO INF. 2823

CANTO CR S/SB

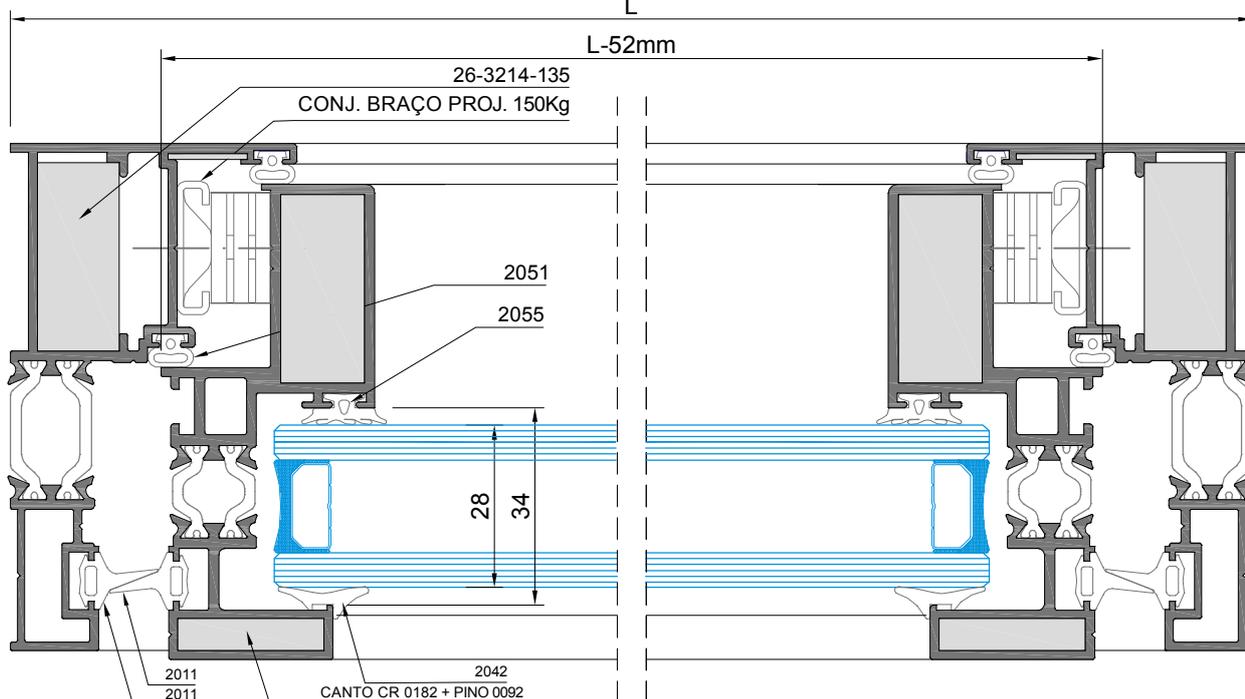
MANÍPULO ARTICULADO DIR.  
MANÍPULO ARTICULADO ESQ.

2051  
CONTRA FECHO  
CANTO CR S/SB

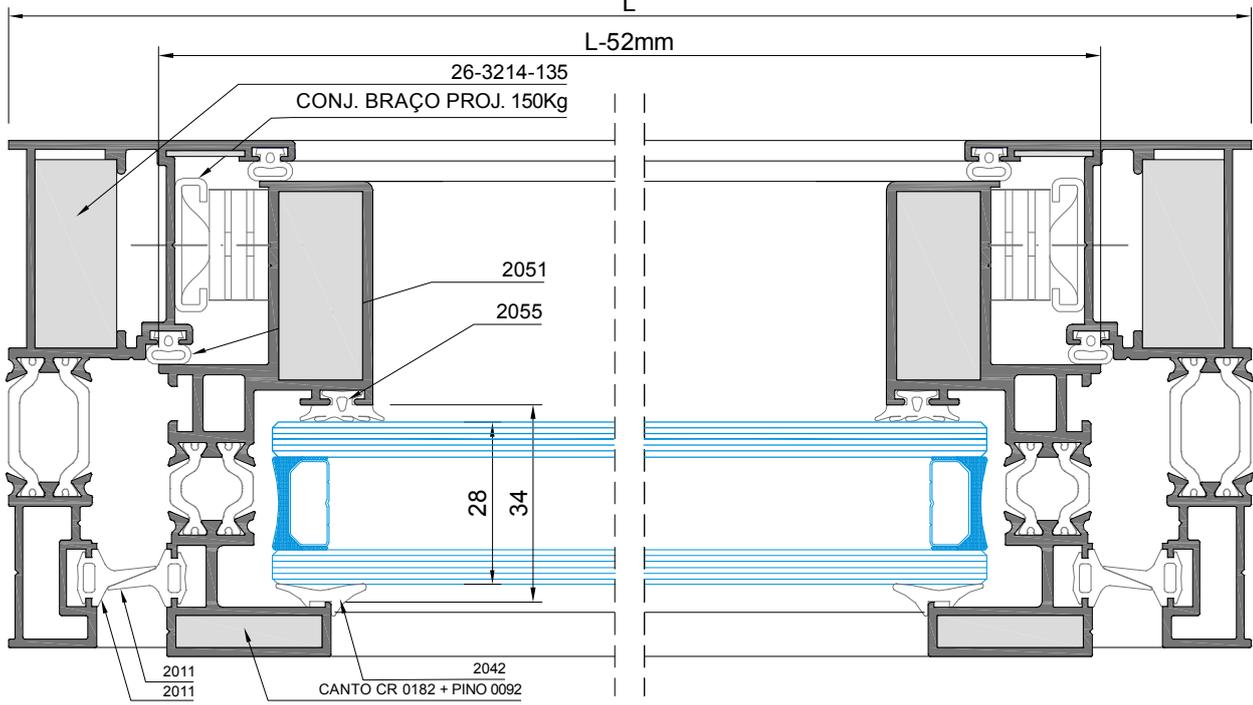
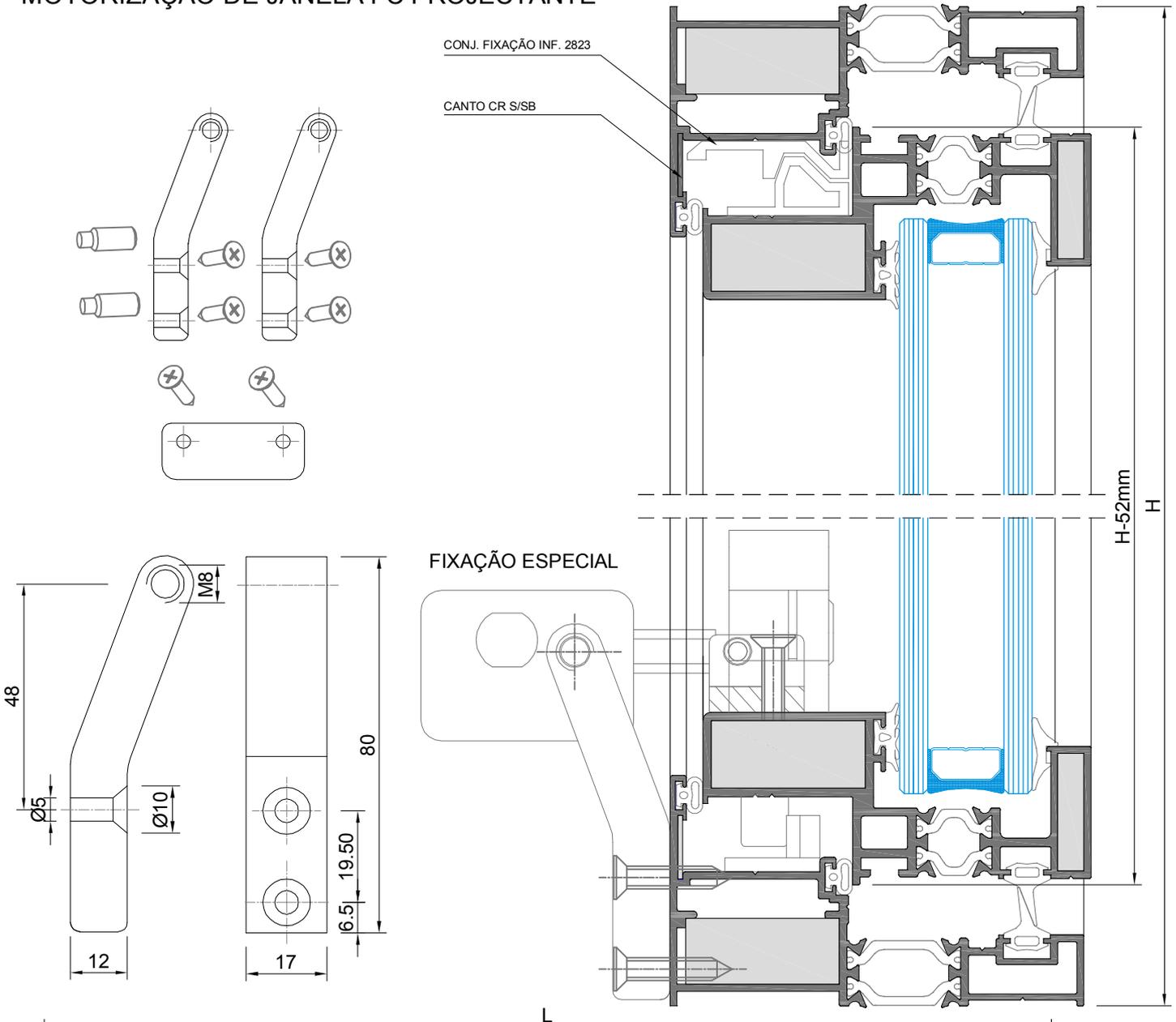


H  
H+52mm

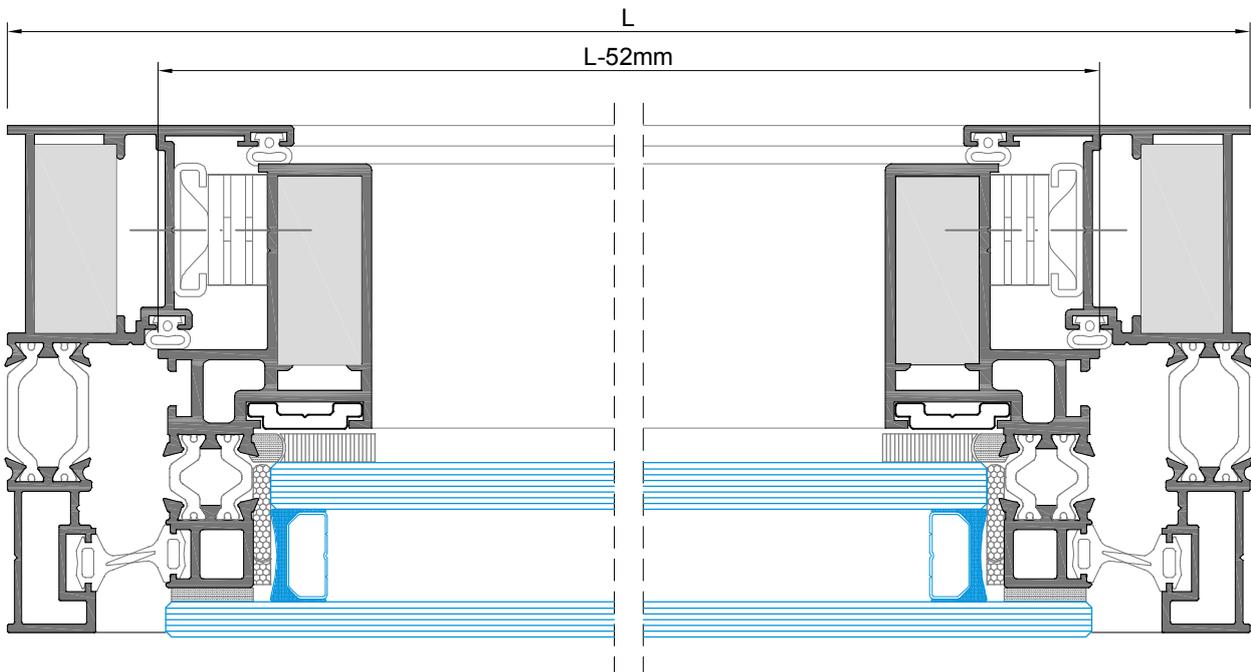
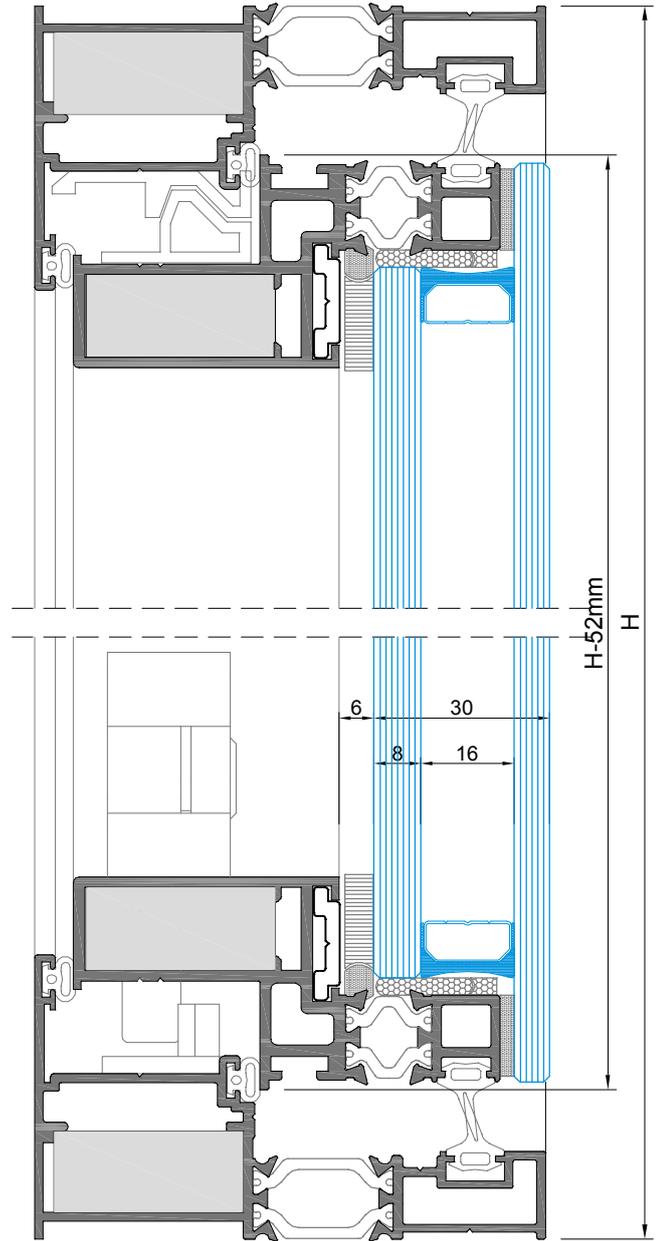
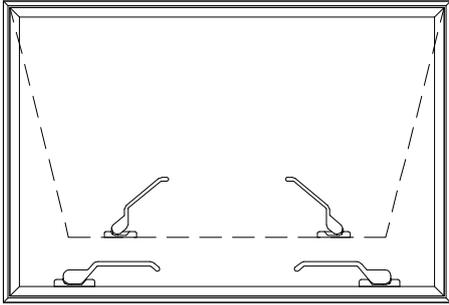
L



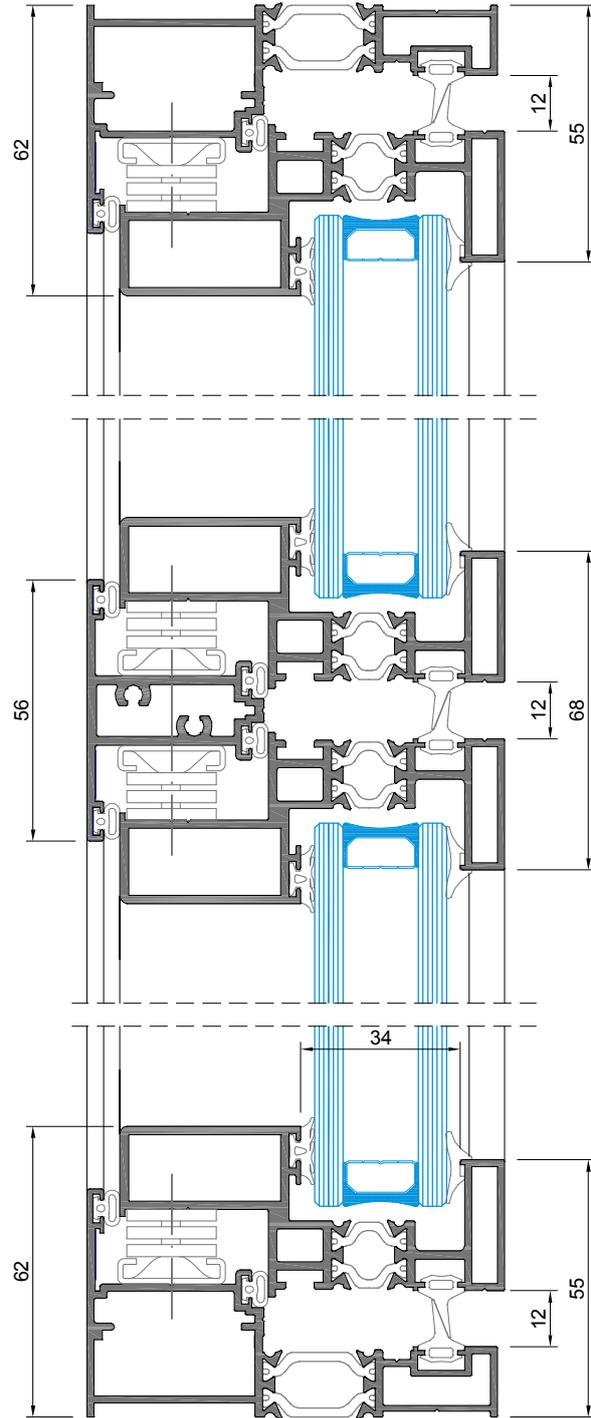
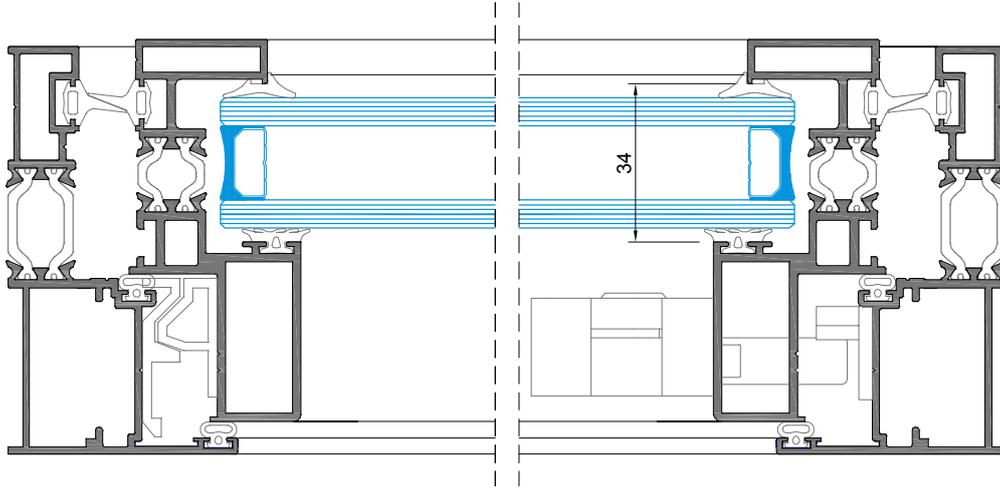
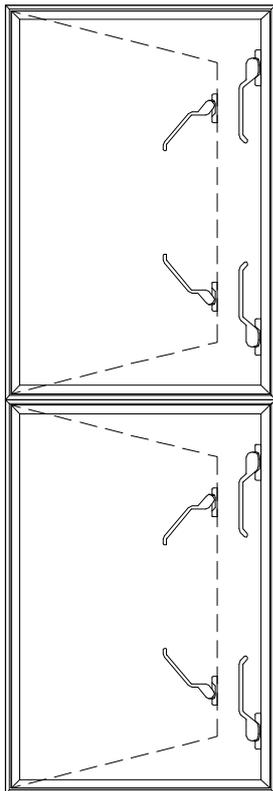
**MOTORIZAÇÃO DE JANELA FC PROJECTANTE**



JANELA PROJECTANTE  
COM O PERFL FC 64

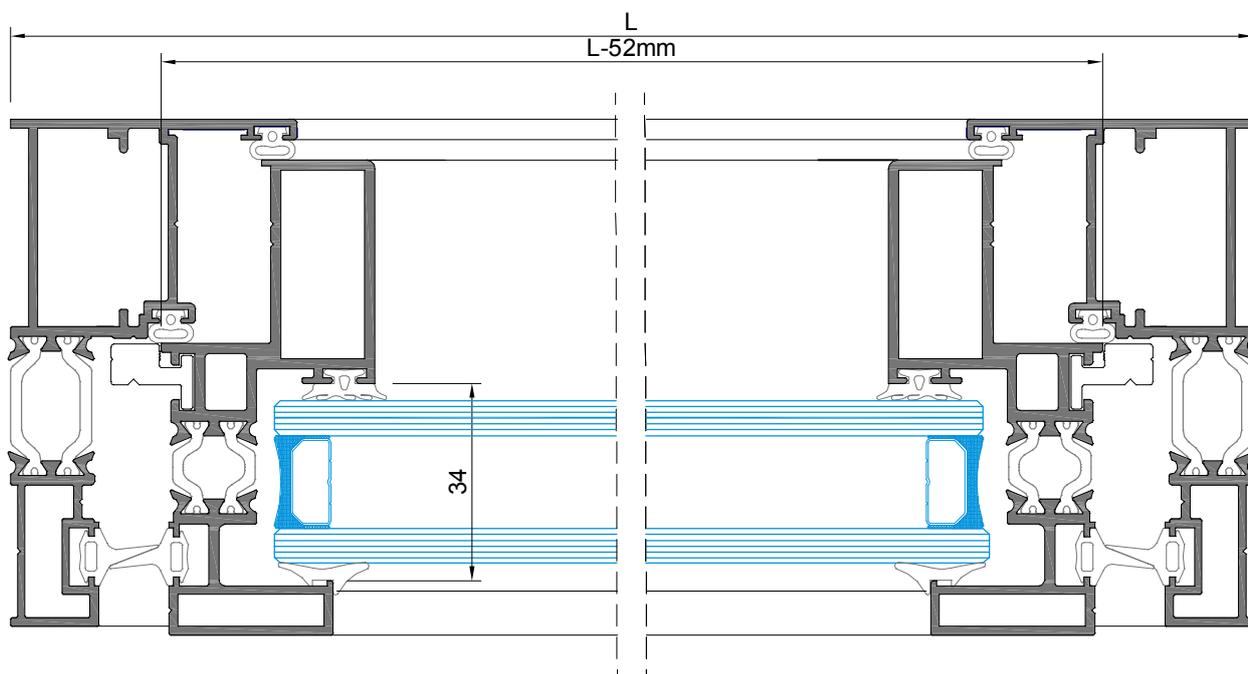
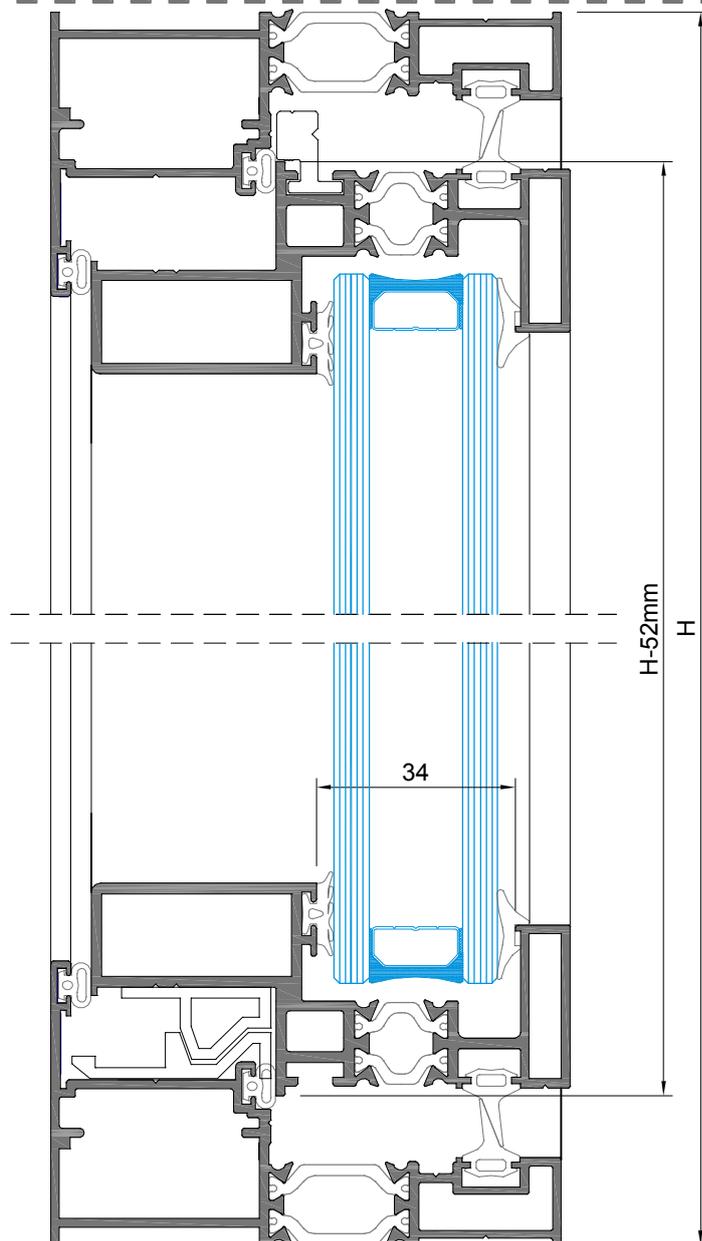
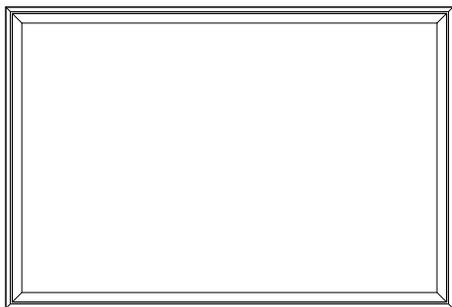


JANELAS PROJECTANTES  
COM OS PERFIS FC 65, FC 66 e FC 69

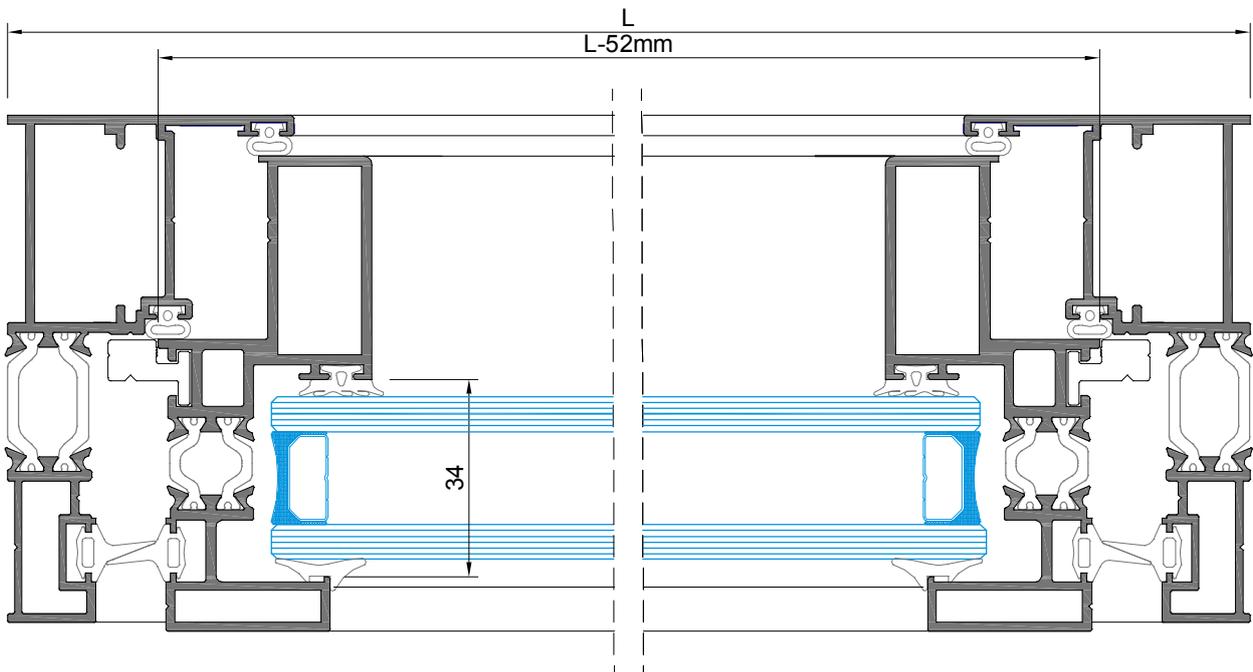
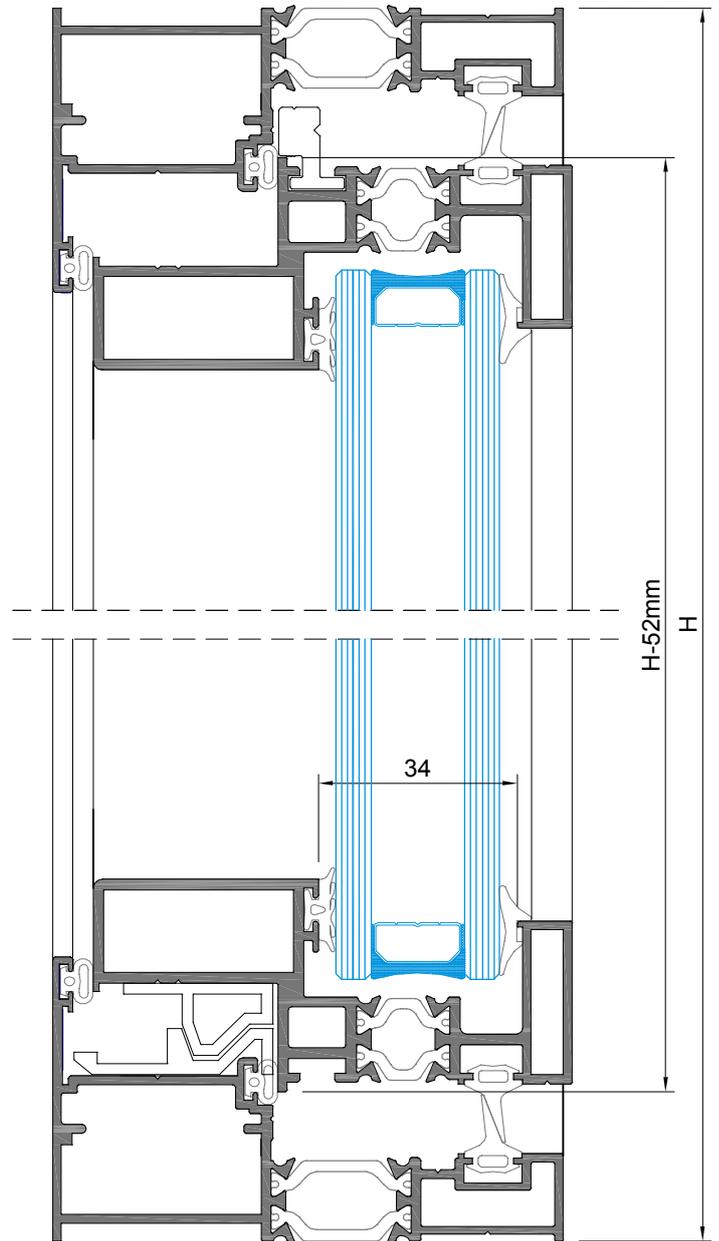
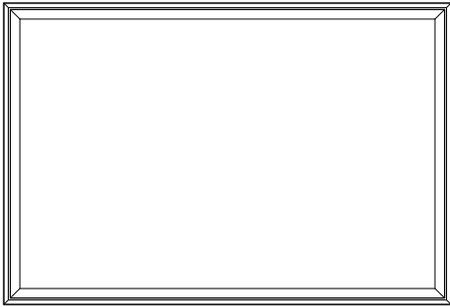


VÃO FIXO

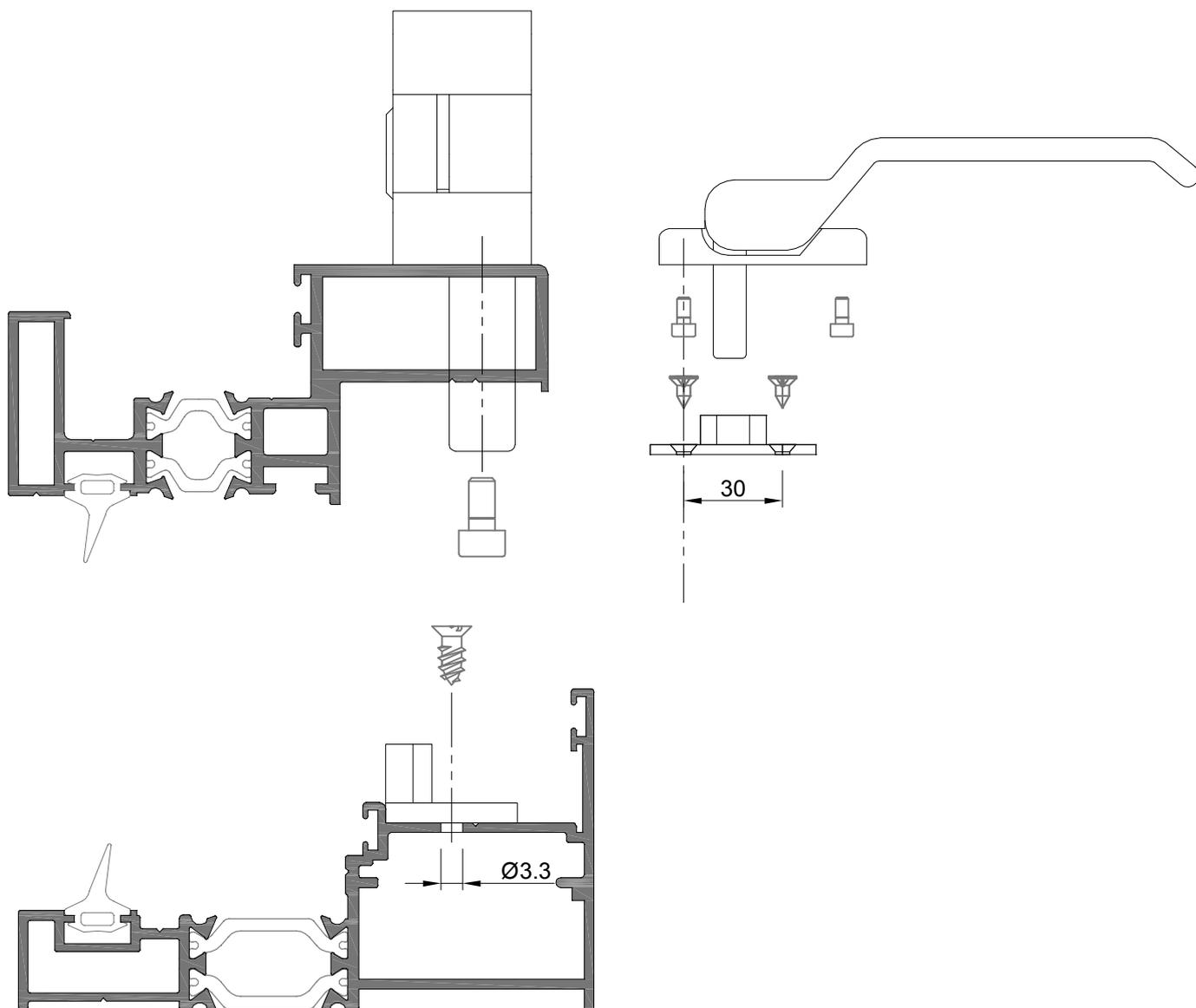
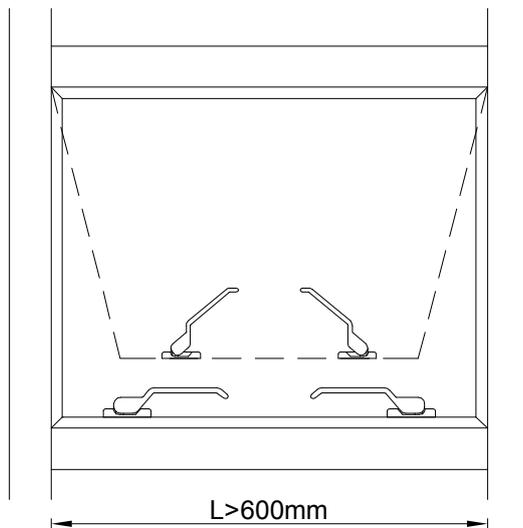
COM OS PERFIS FC 65 e FC 66

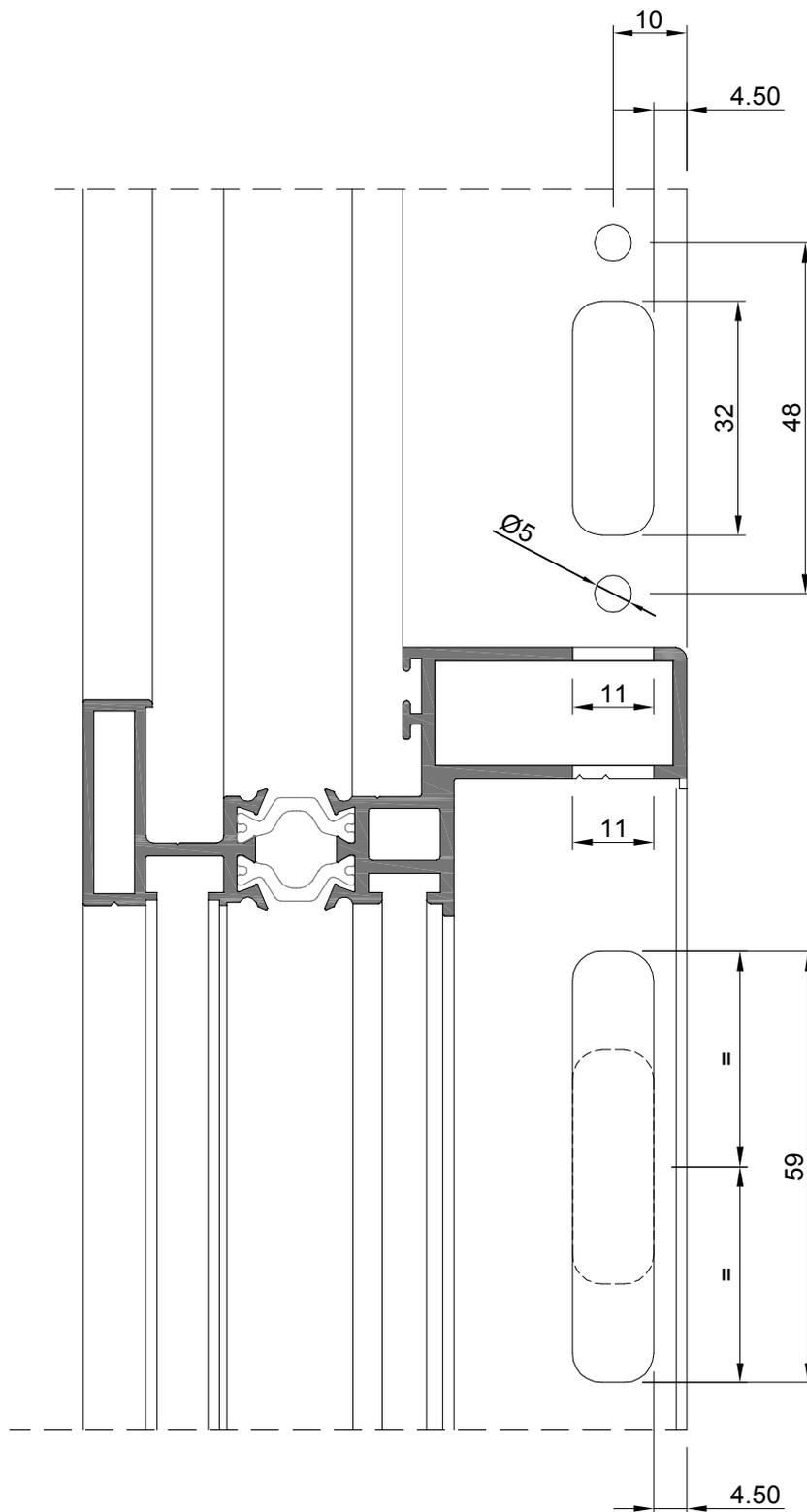


VÃO FIXO  
COM OS PERFIS FC 65 e FC 66



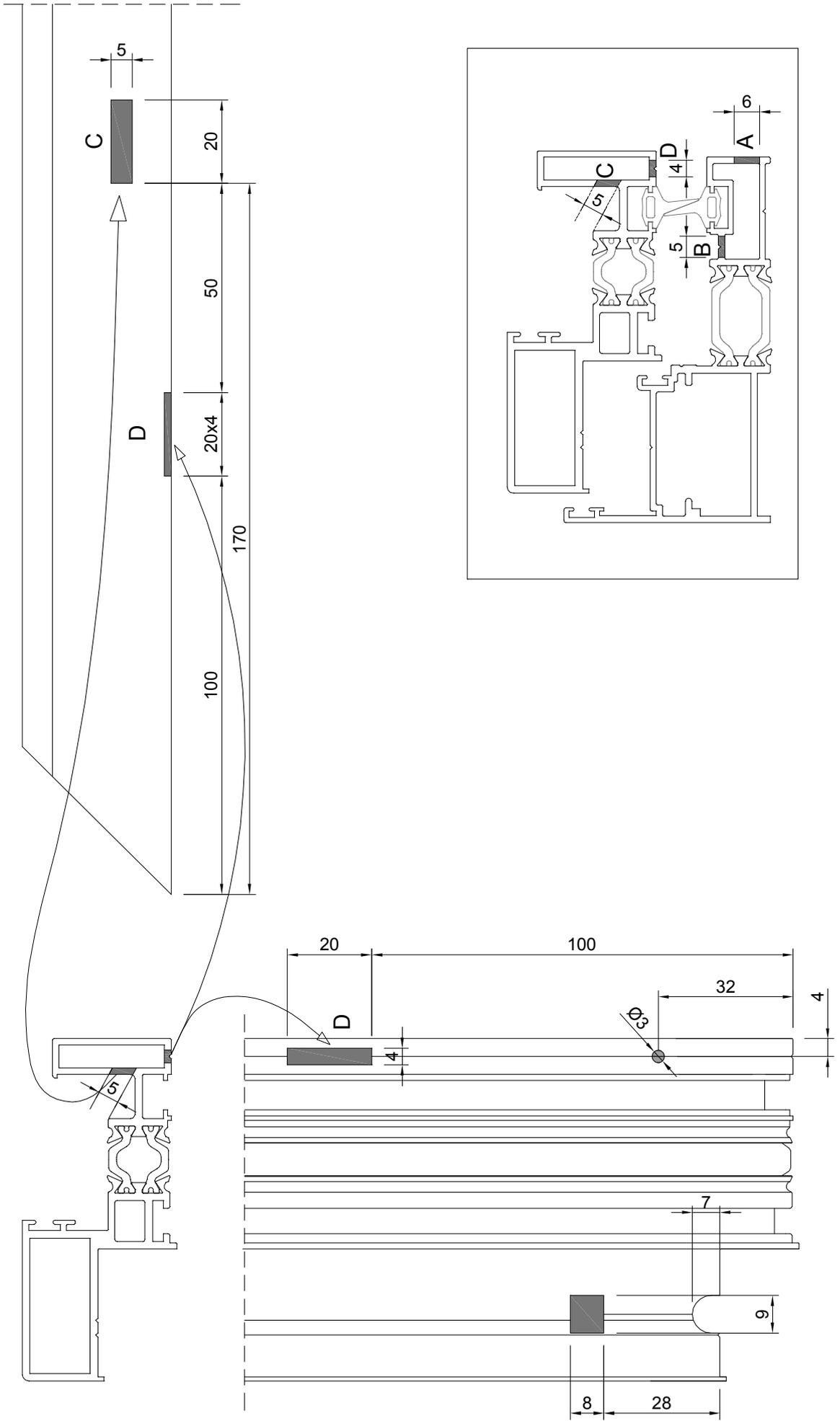
MANÍPULOS PARA JANELAS PROJECTANTES

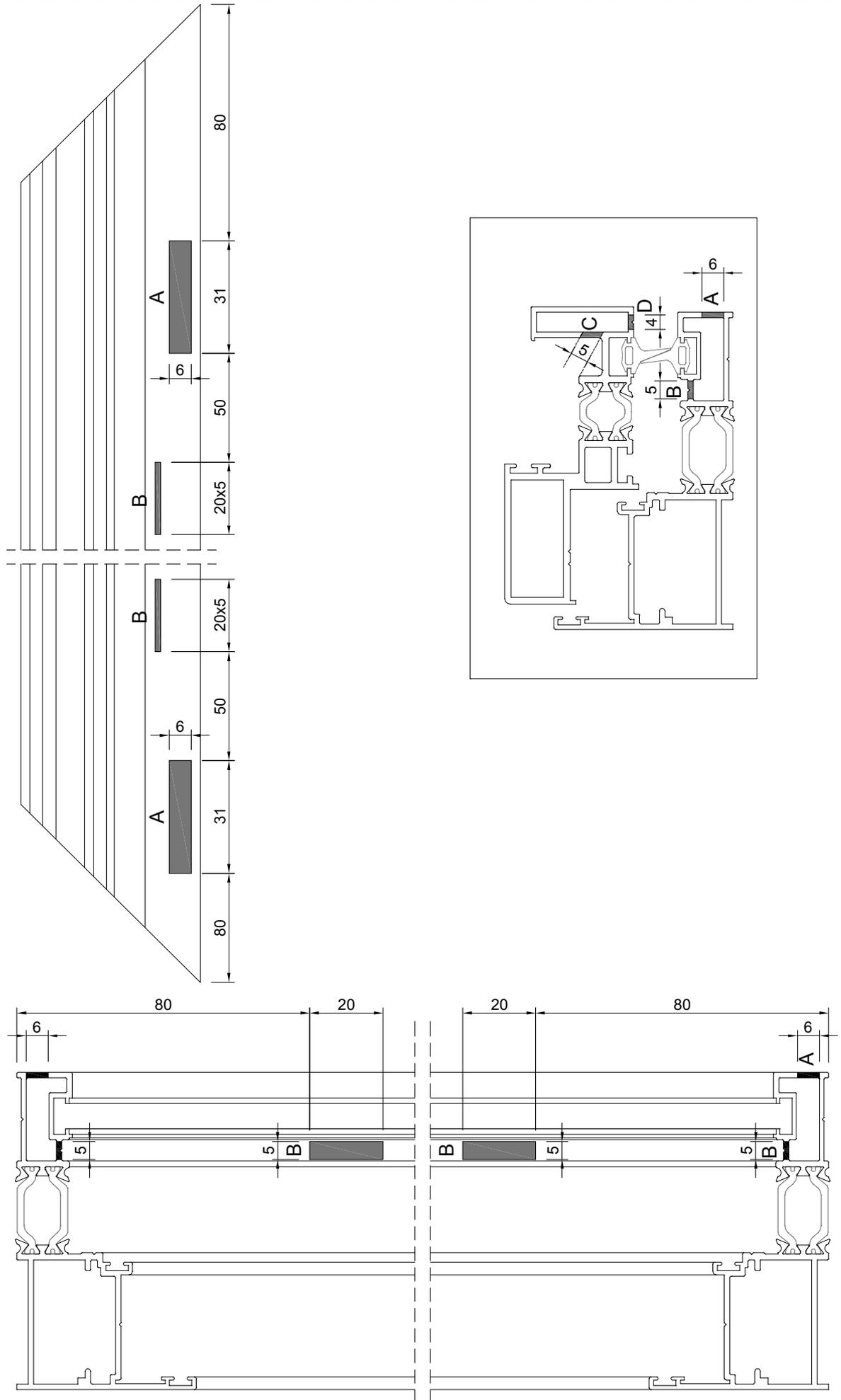




EXECUTAR EM FC 66

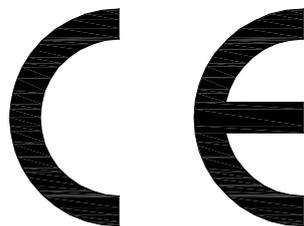
RASGOS PARA DRENAGENS DE ÁGUA/VENTILAÇÃO





Capítulo dedicado a:

# MARCAÇÃO

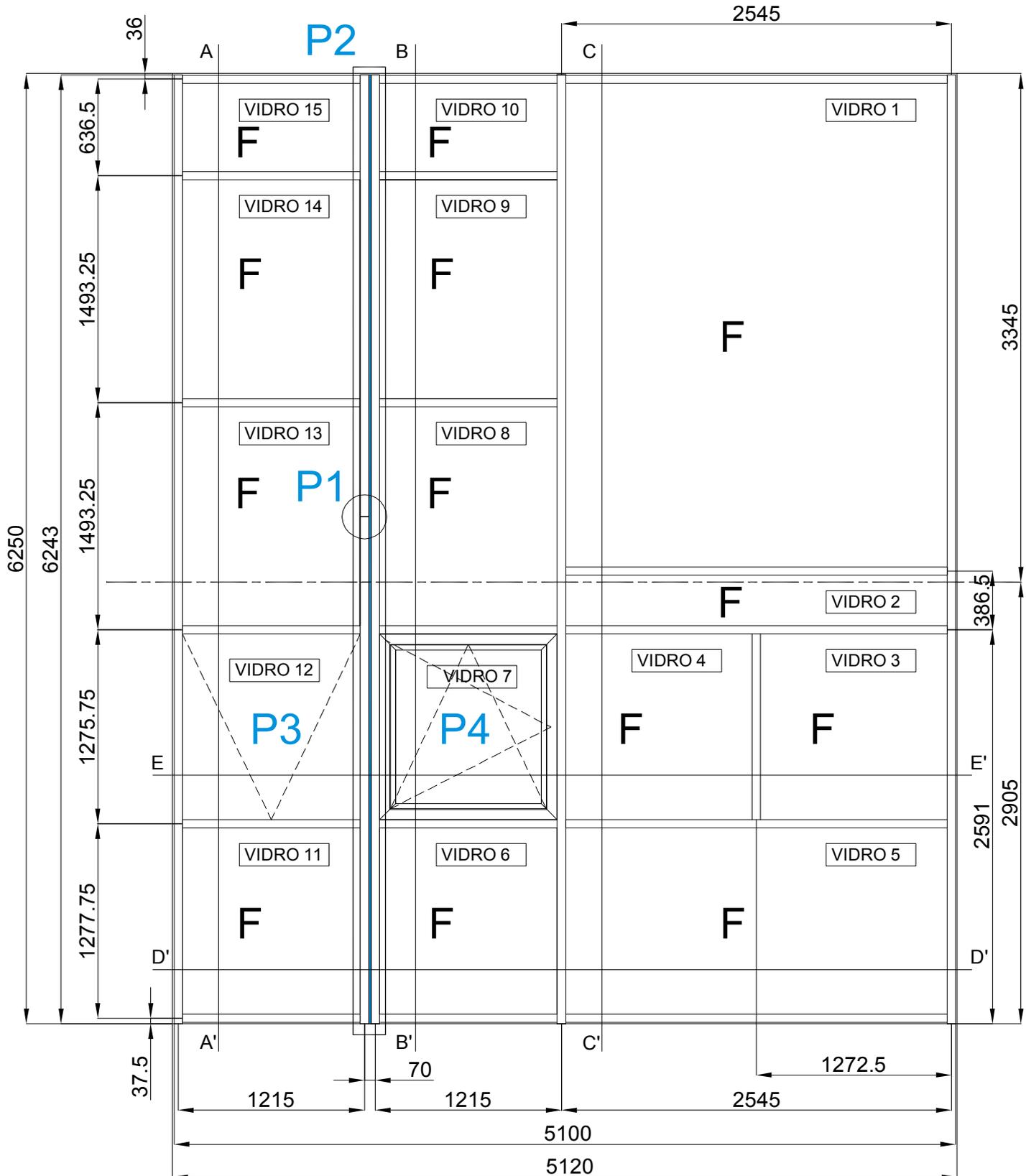


## MANUAL DE FABRICO E MONTAGEM:

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

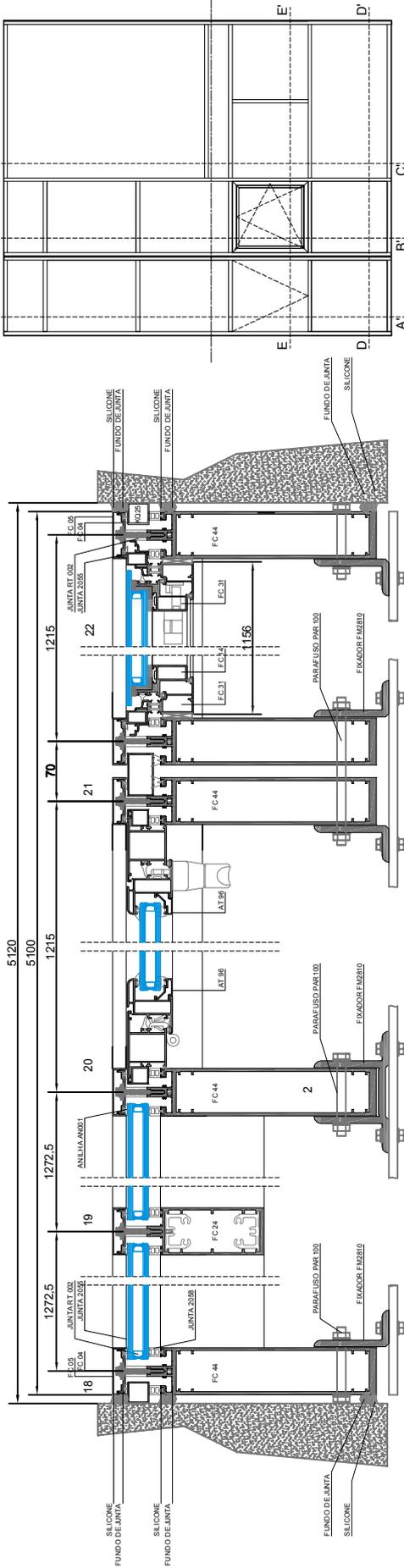




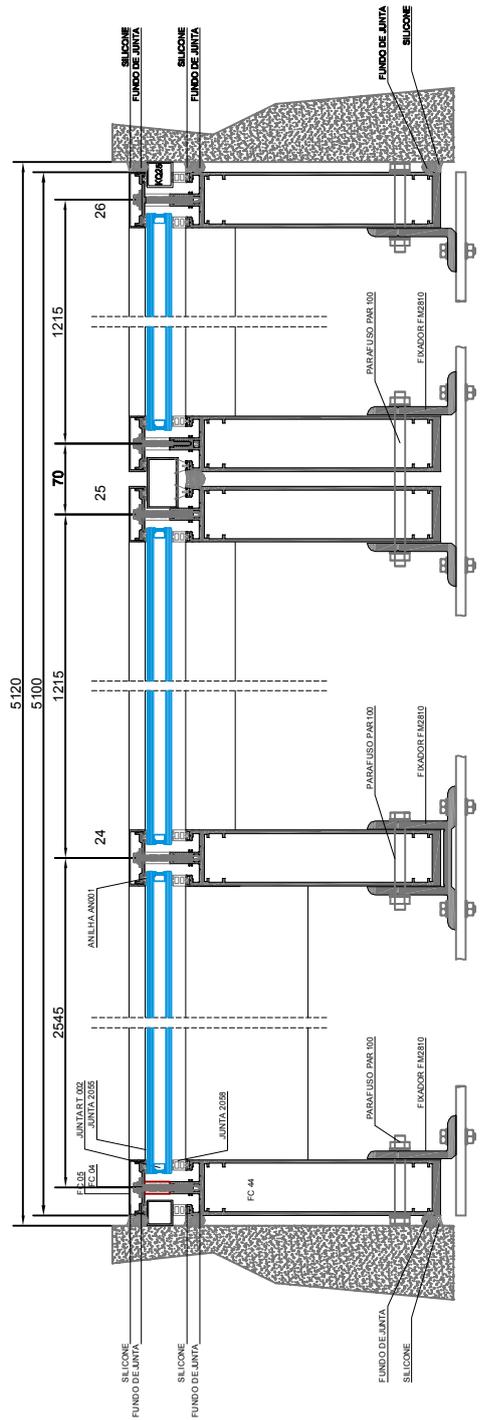
ITT - FACHADA ESTRUTURAL - VÃO ENSAIADO  
CORTES HORIZONTAIS

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

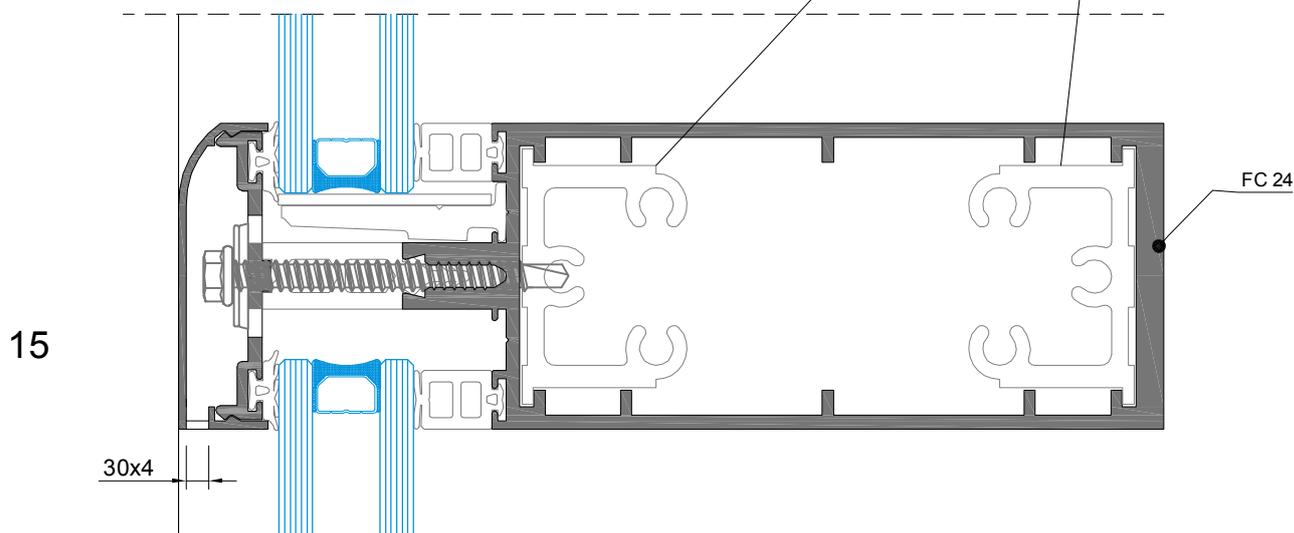
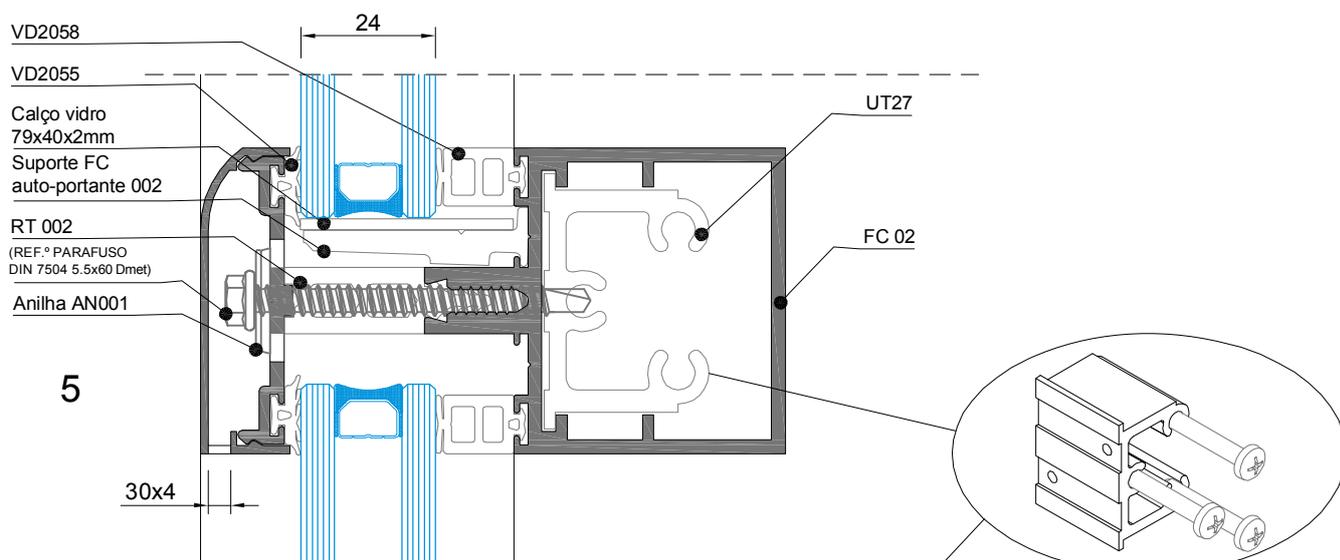
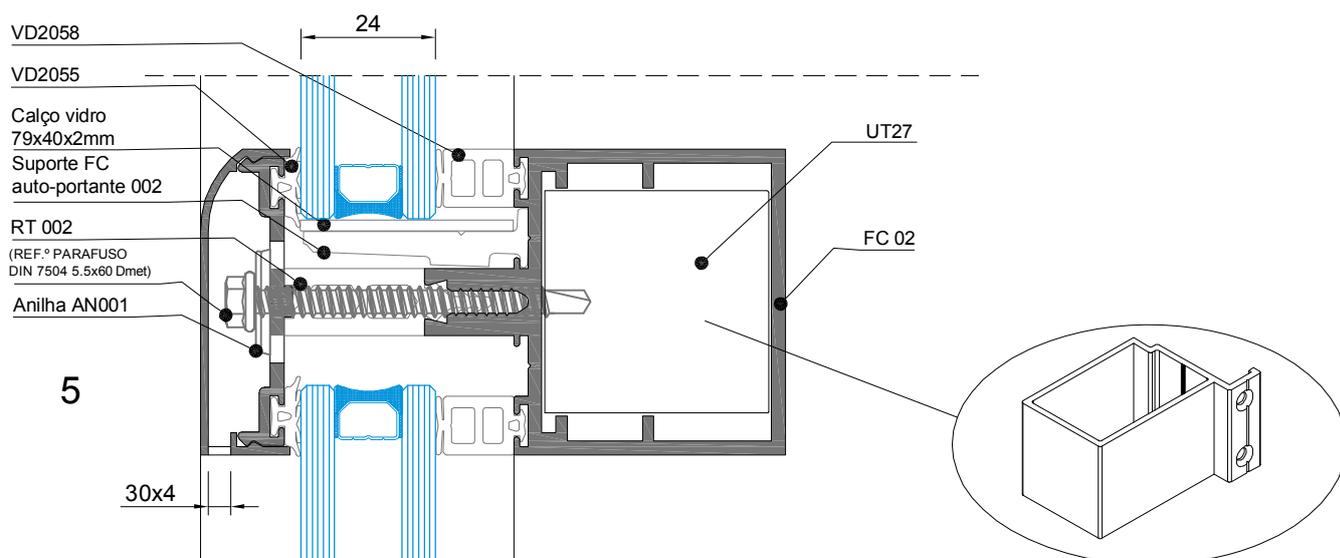
E-E'



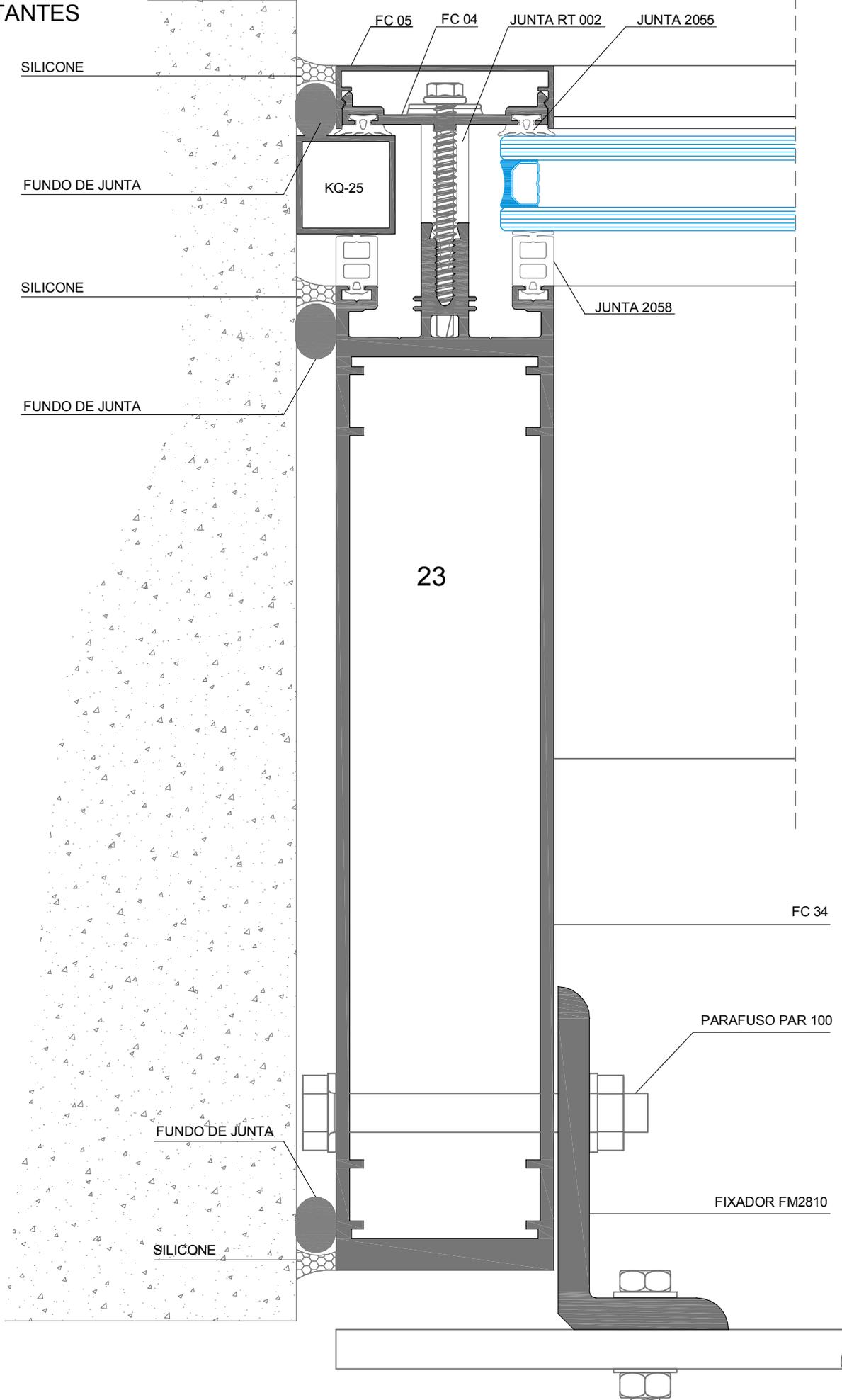
D-D'



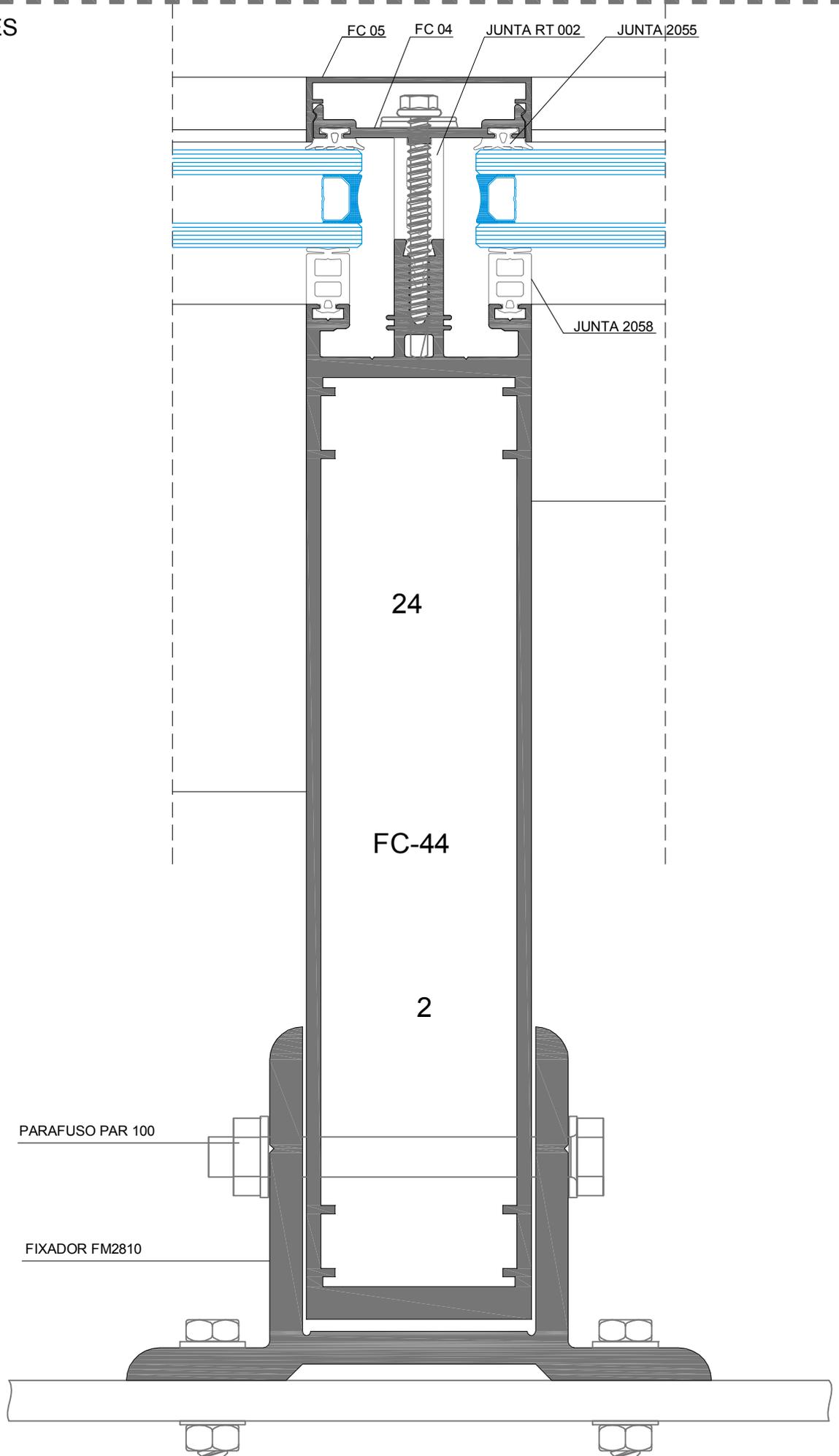
TRAVESSAS



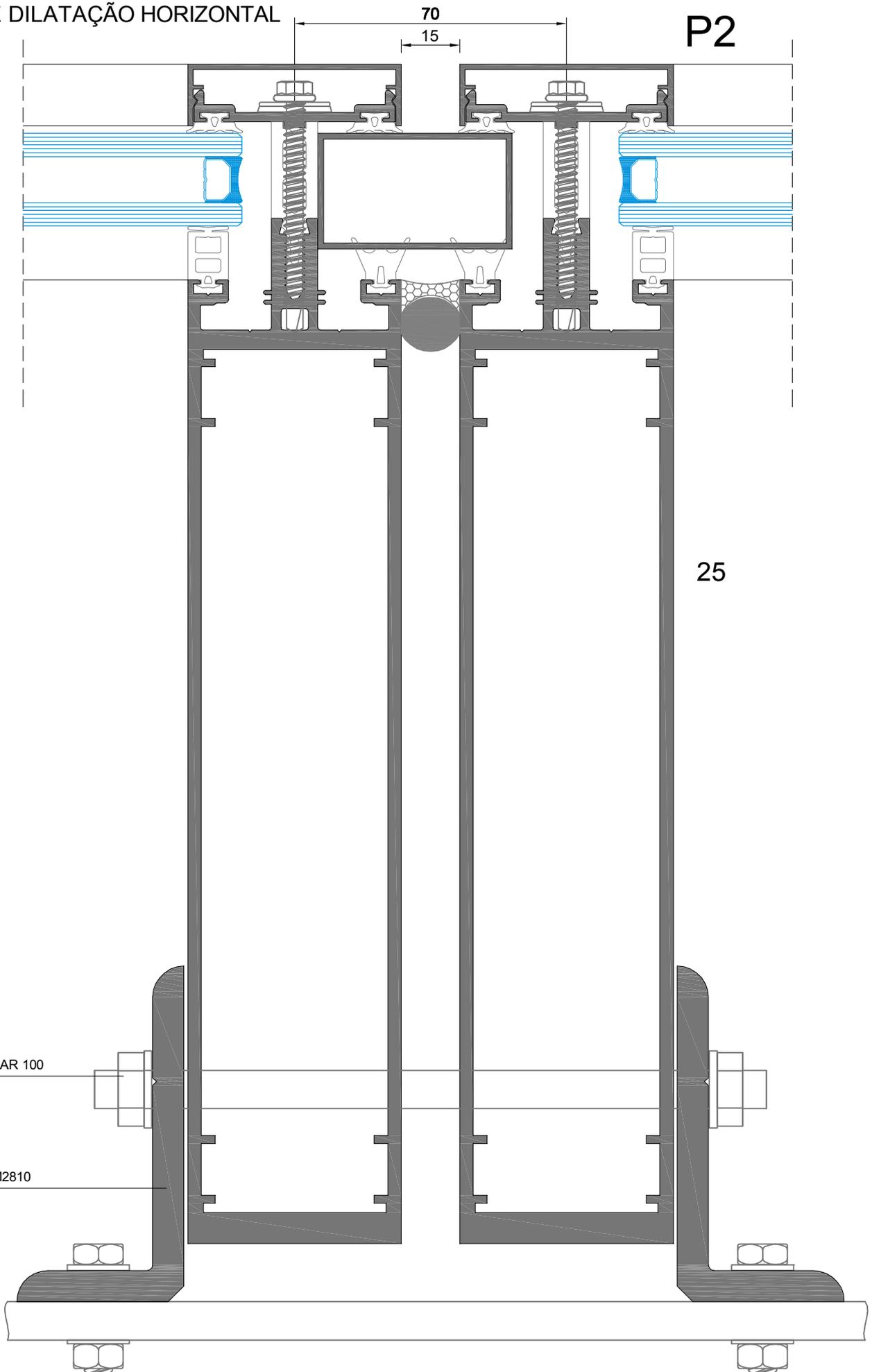
## MONTANTES



MONTANTES

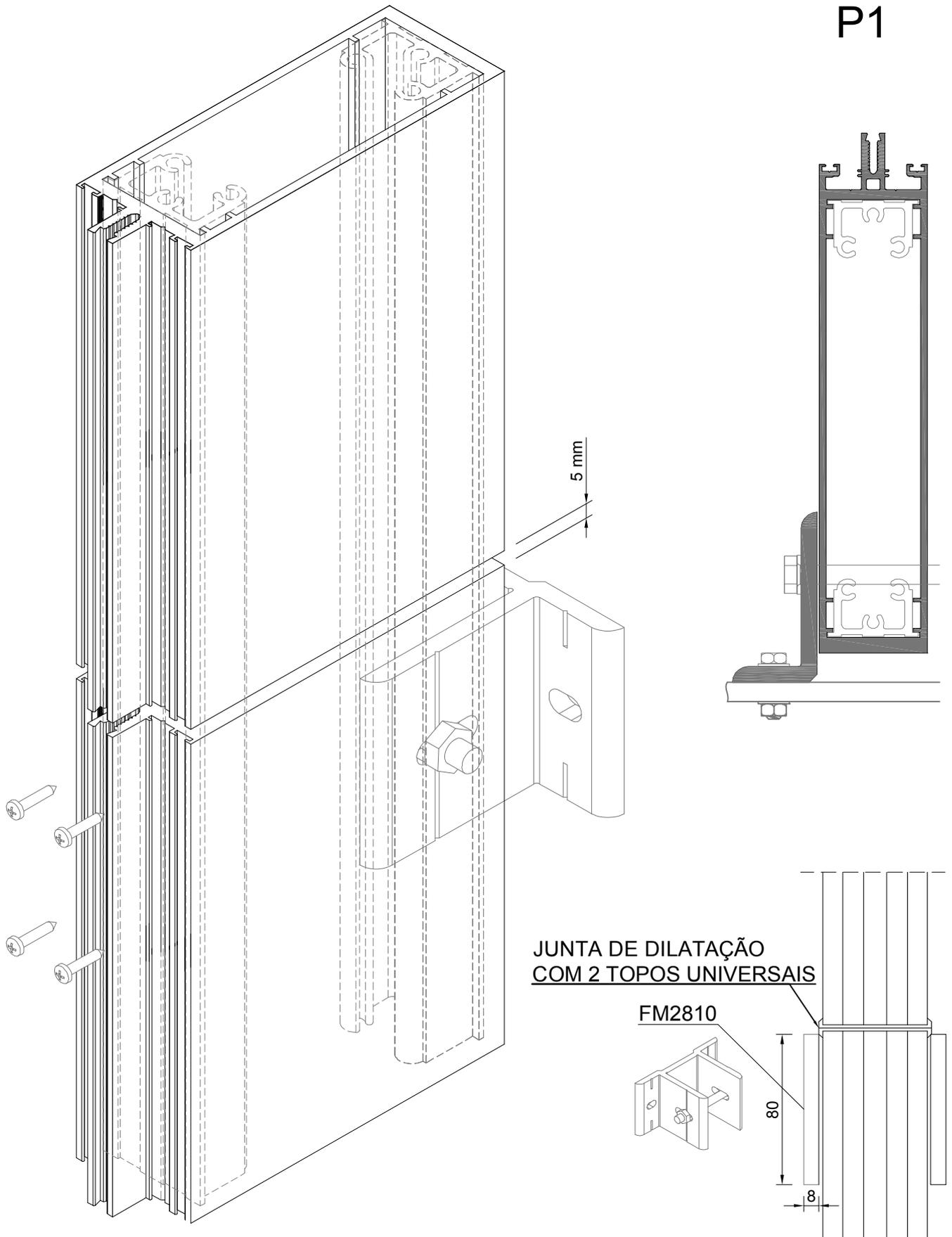


JUNTA DE DILATAÇÃO HORIZONTAL

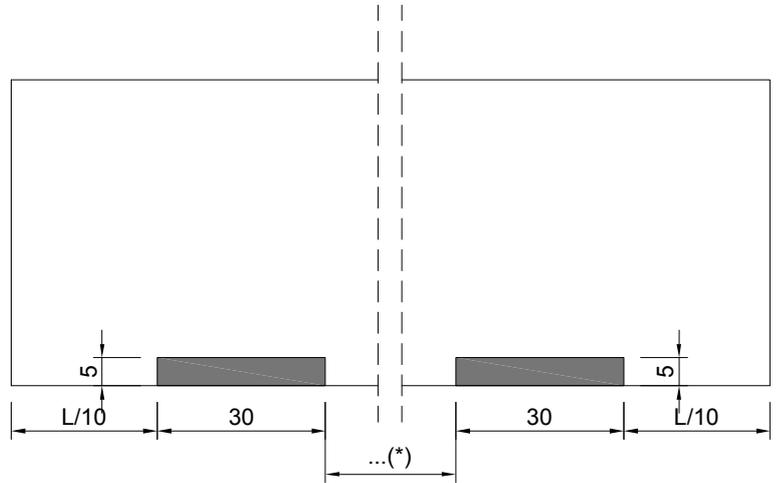
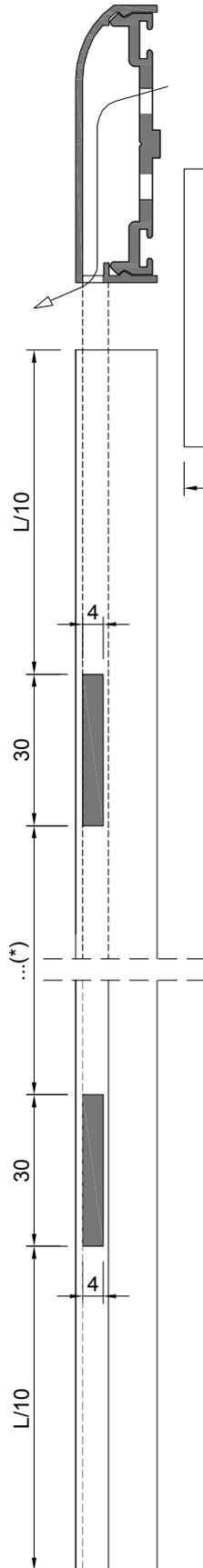
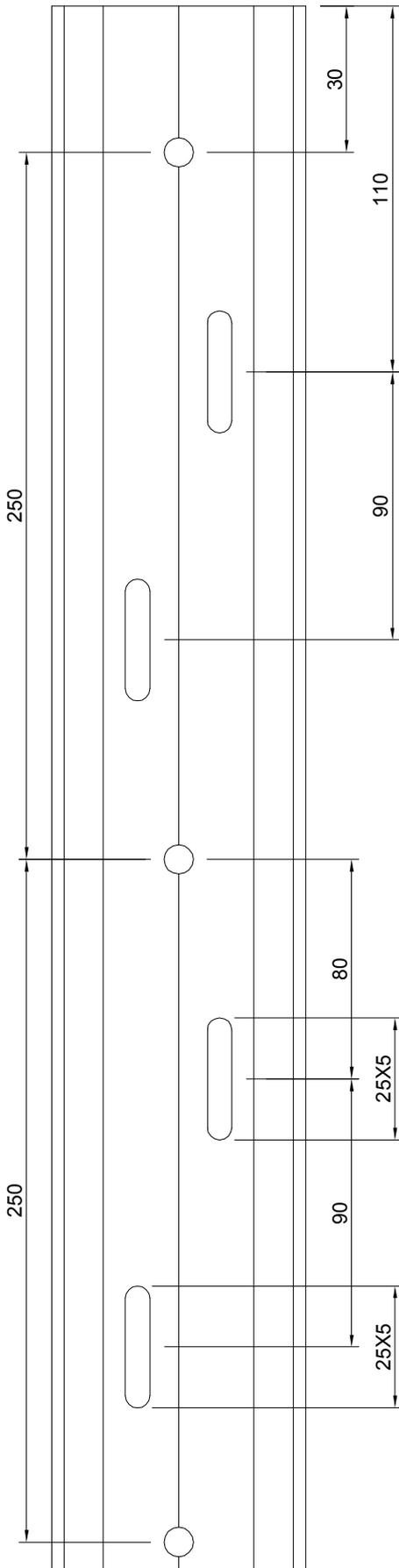
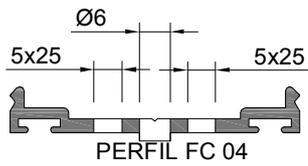


JUNTA DE DILATAÇÃO VERTICAL - UNIÃO COM FC 07

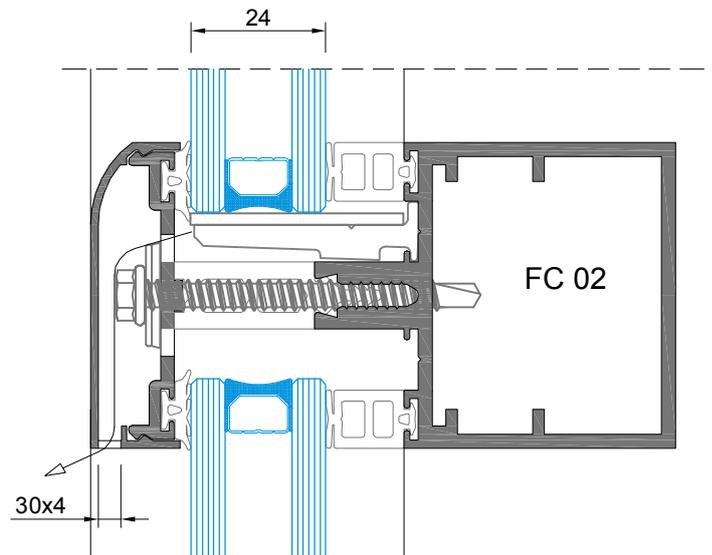
P1



FC 04 / FC 05 - RASGOS DE DRENAGEM DE ÁGUAS



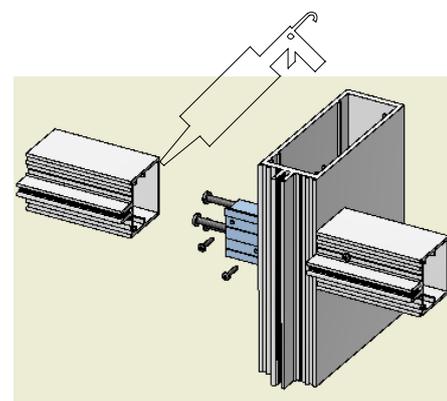
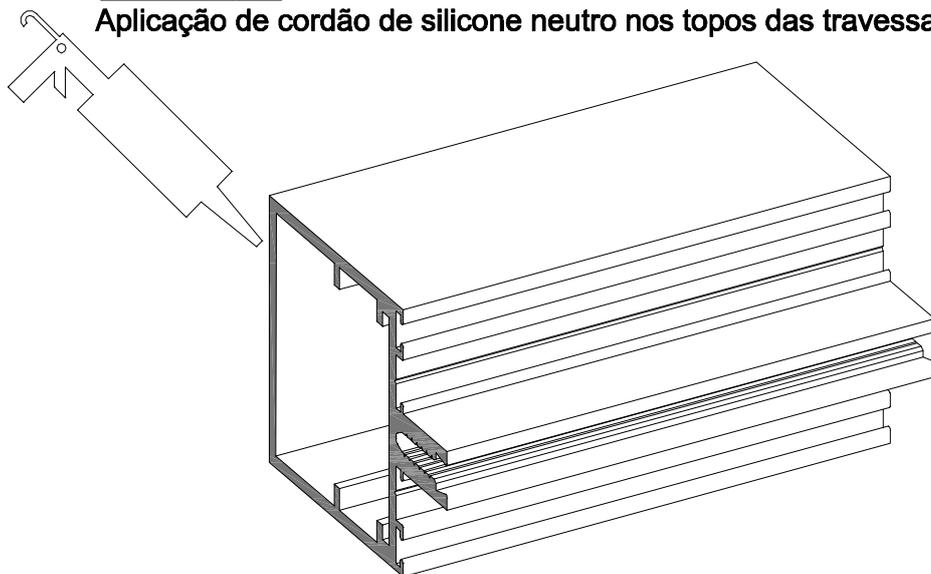
\* Até 1.00 m de largura, mínimo de 2 rasgos por cada largura. A partir de 1.00m, serão realizados mais um rasgo com as mesmas dimensões por cada metro.



APLICAÇÃO DA UNIÃO P/ TRAVESSAS UT2807

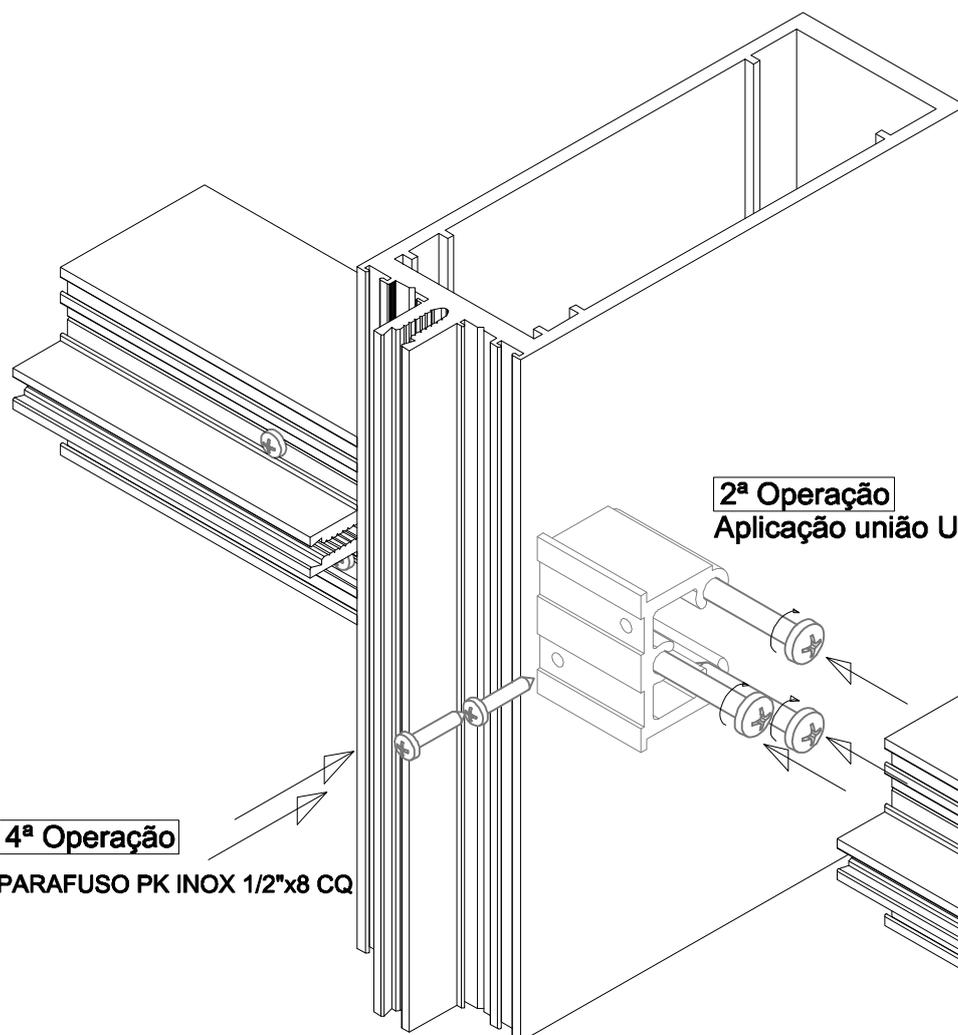
**1ª Operação**

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

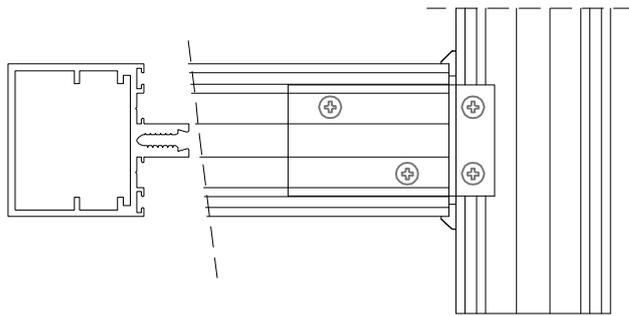
Por cada união UT2807 considerar:

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

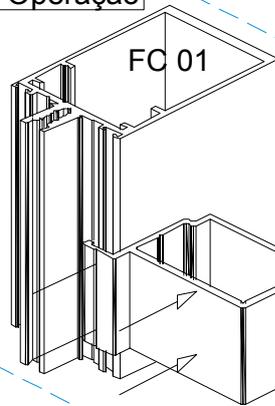
- 3 parafusos:

- 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)

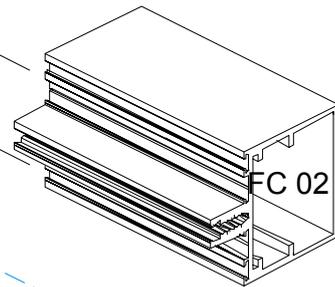
APLICAÇÃO DA UNIÃO FRONTAL P/ TRAVESSAS UT27



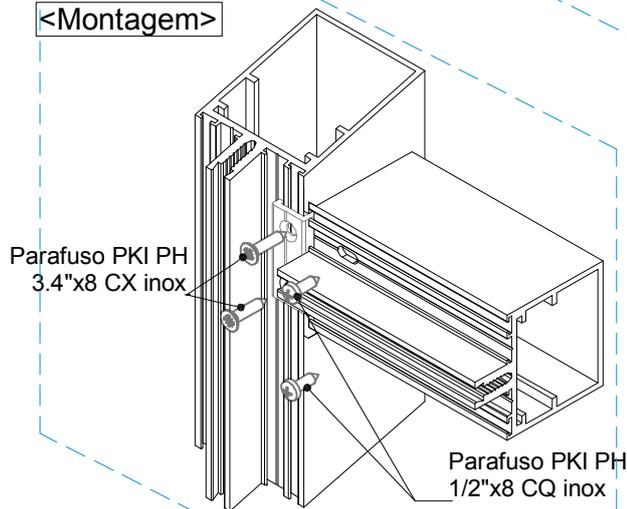
2ª Operação



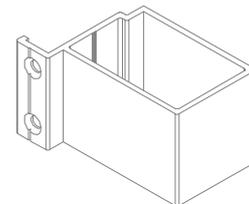
1ª Operação



<Montagem>



UNIÃO FRONTAL UT27

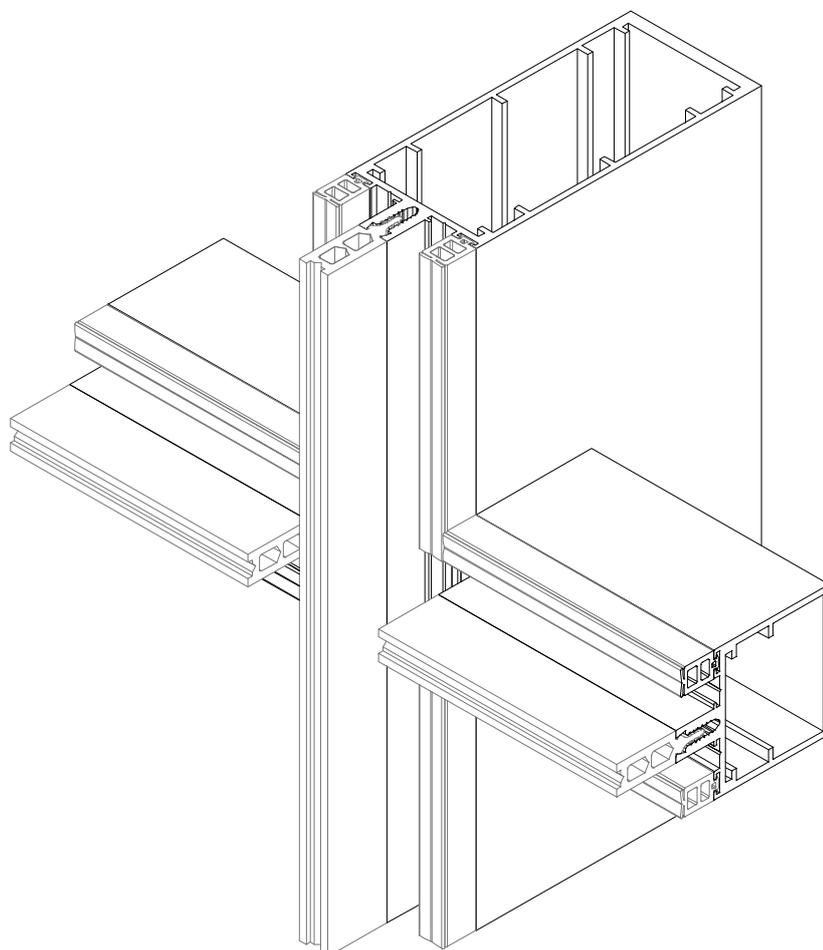
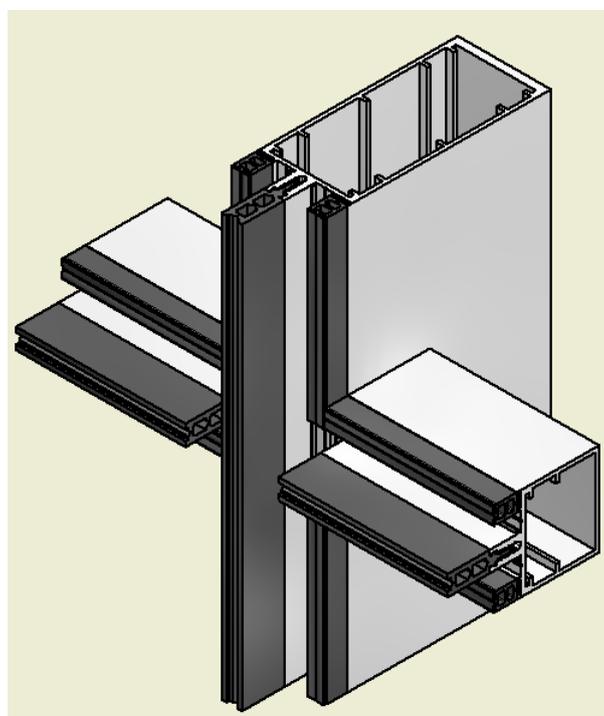
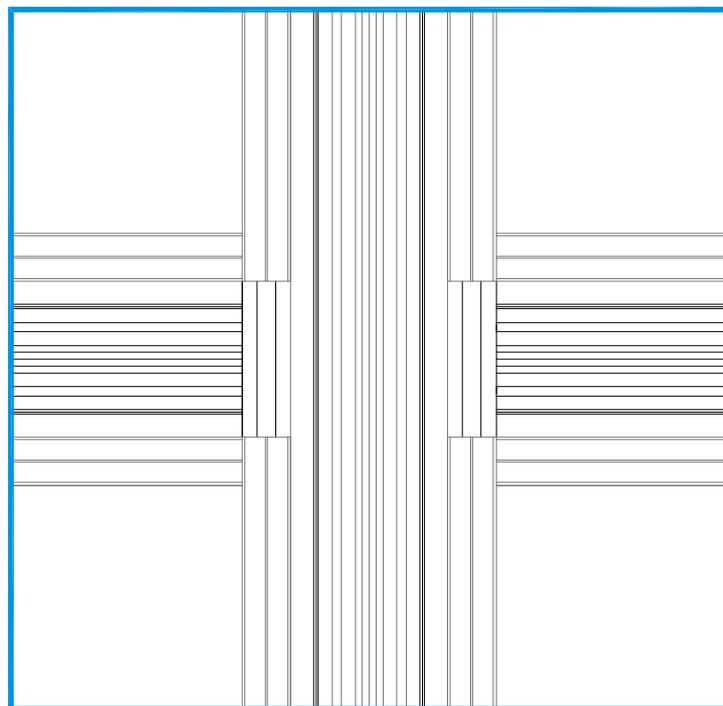
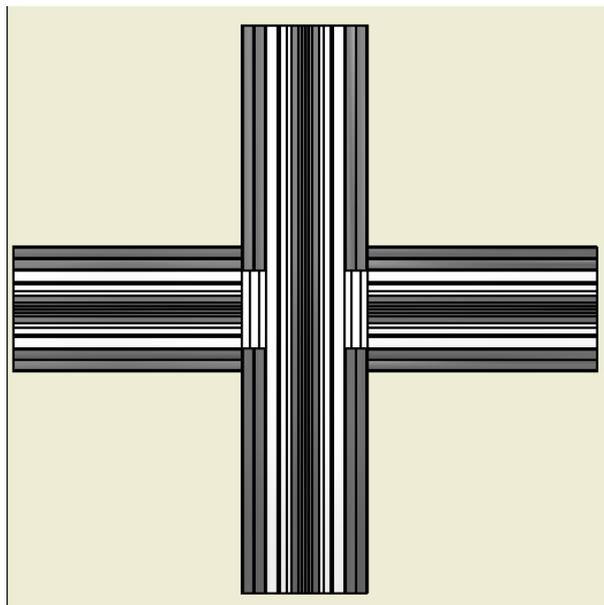


**Nota:**

- 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

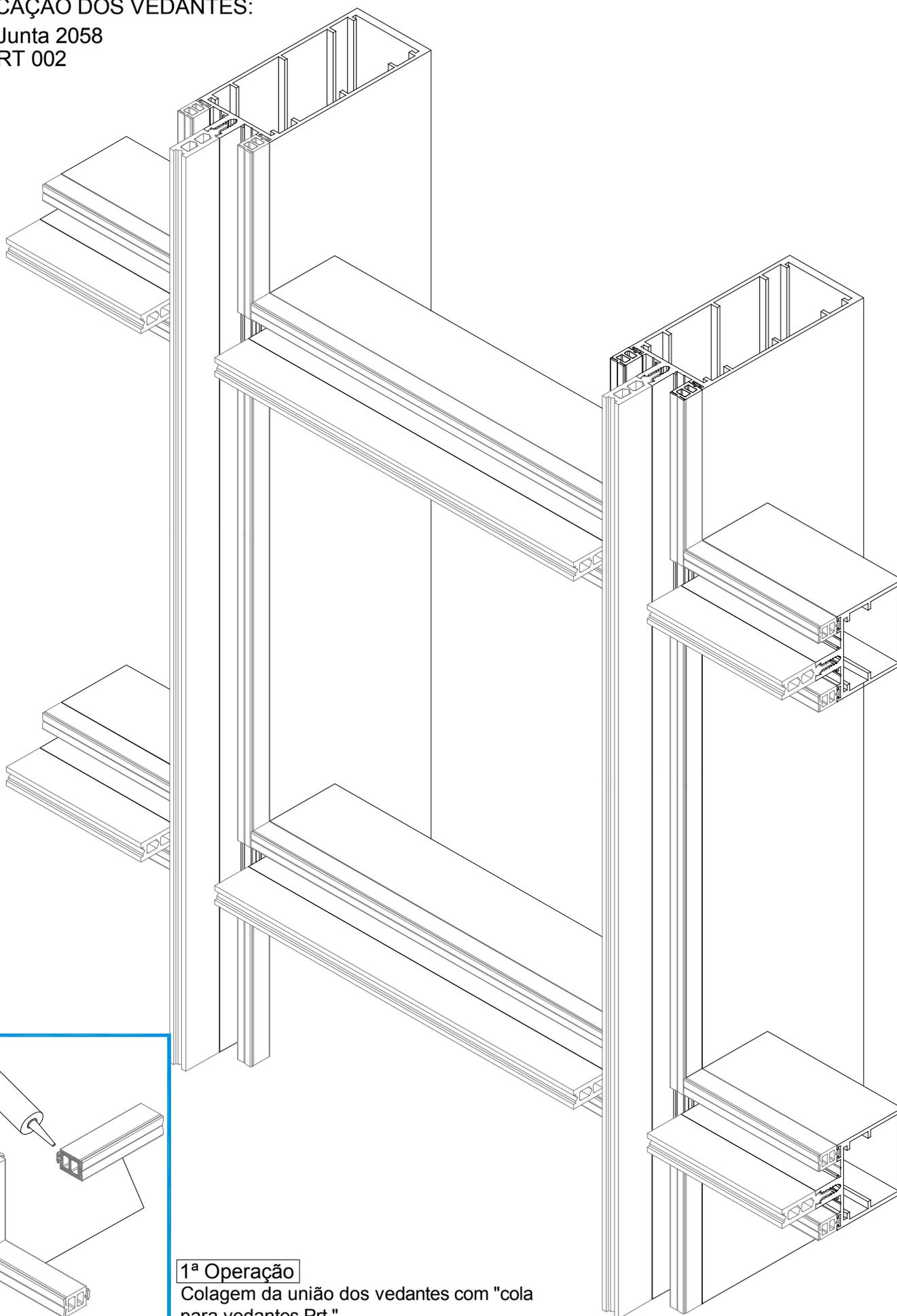
APLICAÇÃO DOS VEDANTES:

- Junta 2058
- RT 002



## APLICAÇÃO DOS VEDANTES:

- Junta 2058
- RT 002



### 1ª Operação

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

Este Catálogo Técnico poderá sofrer alterações por motivos técnicos, sem aviso prévio. Qualquer encomenda deverá ser sujeita a confirmação dos nossos serviços.



**SISTEMAS**  
**EURO 2000** <sup>®</sup>  
PERFIS DE ALUMÍNIO E VIDROS PARA ARQUITECTURA

**ALFA SUL**  
EN Lisboa-Sintra Km 14  
2725-937 Mem Martins  
T: +351 219 265 090 | F: +351 219 265 098  
E: alfa.sul@sosoares.pt

**ALULIDER**  
Pavilhão Industrial H - Plataforma 13D  
Zona Franca Industrial  
9200-047 Caniçal - Madeira  
T: +351 291 960 494 | F: +351 291 960 497  
E: alulider@sosoares.pt

**METALFER**  
Travessa do Bolegão, 146  
Apartado 1  
3754-904 Fermentelos  
T: +351 234 729 740 | F: +351 234 729 741  
E: metalferr@sosoares.pt

**PERFIS OEIRAS**  
Rua da Colónia - Quinta da Cardoso  
Apartado 214 - Abrunheira  
2711-952 Sintra  
T: +351 219 156 660 | F: +351 219 156 661  
E: perfis.oeiras@sosoares.pt

**PORTALEX**  
Estrada de S. Marcos, 23  
2735-521 Cacém  
T: +351 210 412 500 | F: +351 210 412 507  
E: comercial@portalex.eu

**SOSOARES**  
Rua do Campo Alegre, 474  
4150-170 Porto  
T: +351 226 096 709 | F: +351 226 005 642  
E: comercial@sosoares.pt

[www.sosoares.pt](http://www.sosoares.pt)  
[www.portalex.eu](http://www.portalex.eu)