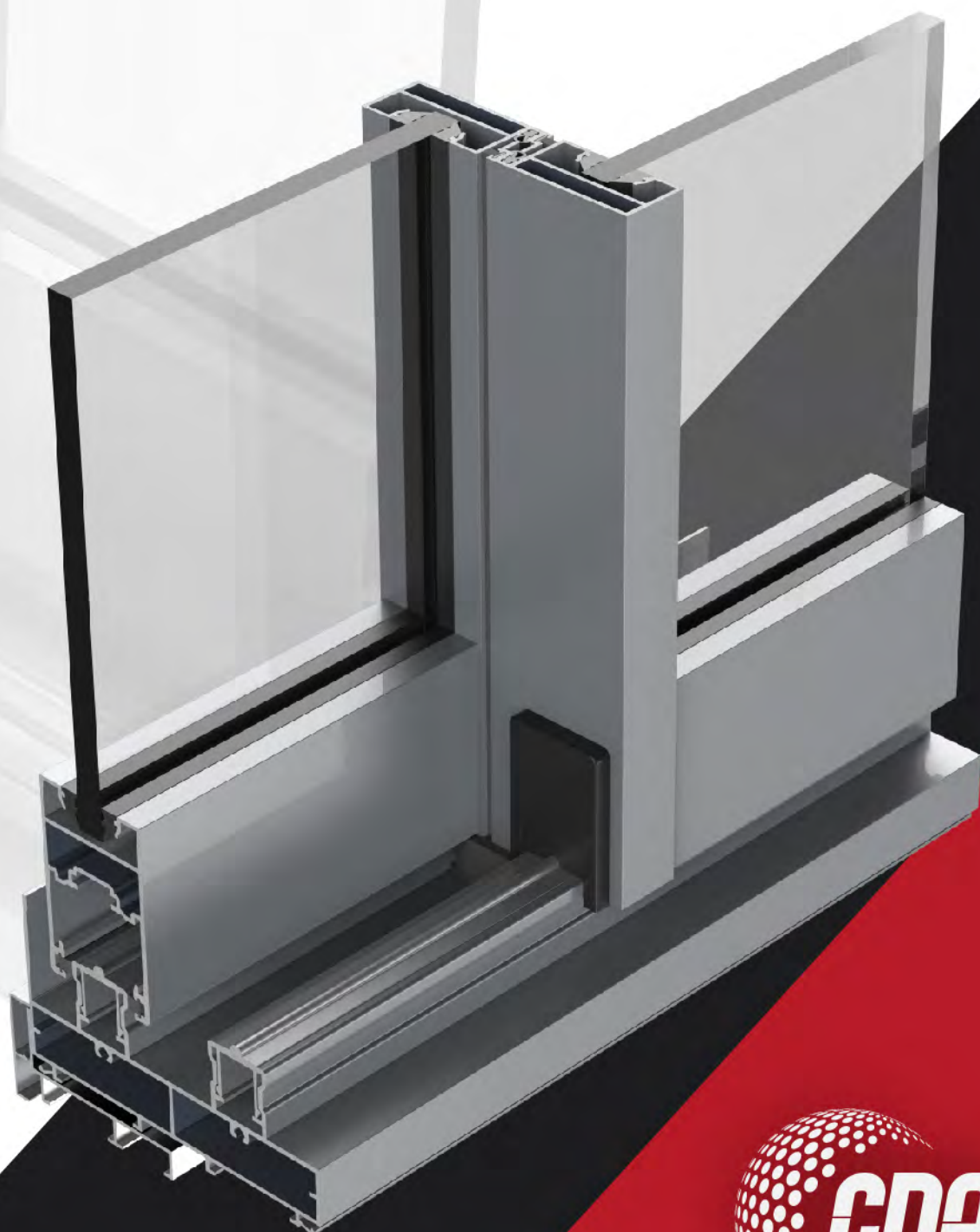


CATÁLOGO TÉCNICO

# SILENT S

SISTEMAS DE ESQUADRIAS DESLIZANTES



REV.02  
(MAIO/2025)

Essa versão, anula e  
substitui as anteriores.



# Sumário interativo

Clique para ser direcionado a página correspondente

**1. Tipologias.....1.1**

**2. Cálculo Estrutural.....2.1**

Dimensionamento e Fórmulas

**3. Perfis.....3.1**

**4. Componentes.....4.1**

Imagens / Descrições

**5. Montagens.....5.1**

**6. Detalhes Construtivos.....6.1**

Montagens

**7. Usinagens.....7.1**

Aplicações

# O GRUPO CDA METAIS

Atua no desenvolvimento de sistemas de esquadrias e fachadas, extrusão, pintura eletrostática e distribuição de alumínio para todo o Brasil.



## CENTROS COMERCIAIS



**DIADEMA - SP**



**PORTO ALEGRE - RS**



**CAMBORÚ - SC**



**CURITIBA - PR**



**RECIFE - PE**

## FÁBRICAS



**COLATINA - ES**



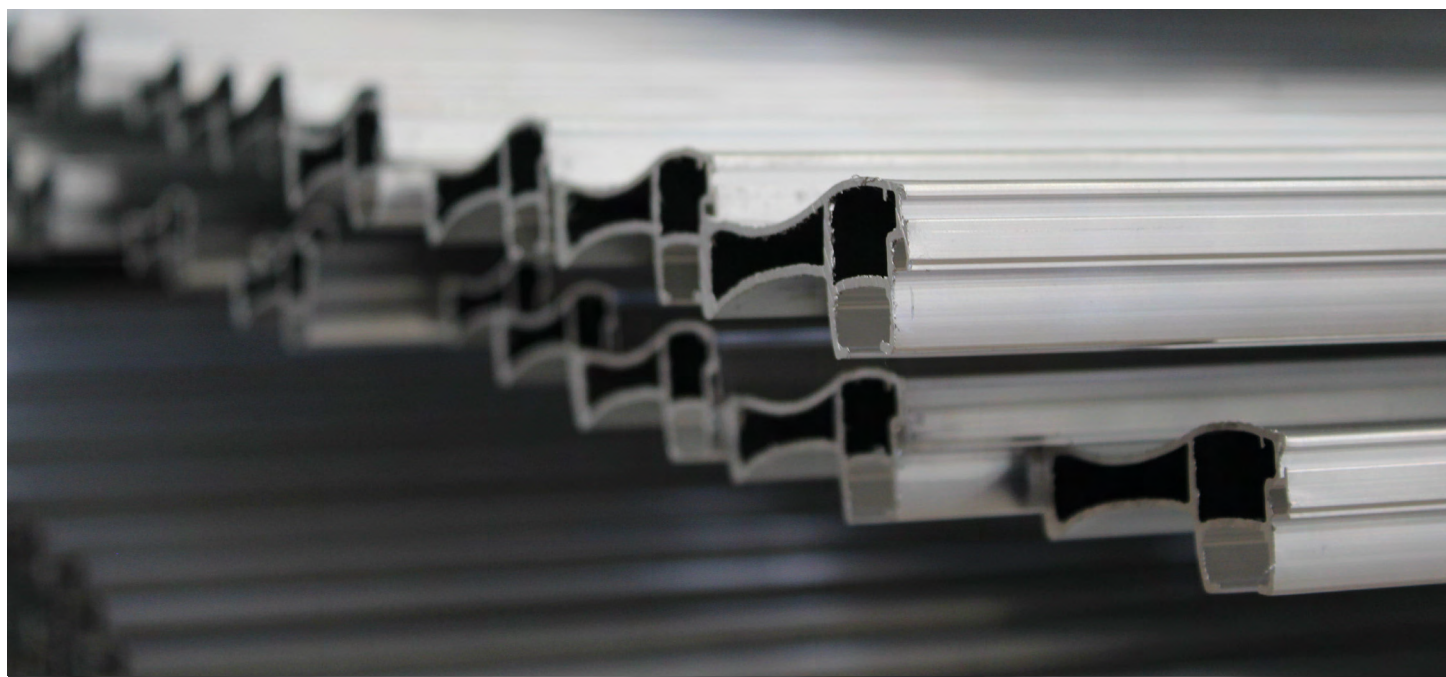
**ITAPEVA - MG**



**CANDEIAS - BA**



# NOSSOS PRODUTOS



**NBR 10.821** **NBR 15.575** **NBR 14.718**

Sistemas homologados que combinam tecnologia, design e alto desempenho!



DESEMPENHO  
ACÚSTICO



DESEMPENHO  
ESTRUTURAL



PERMEABILIDADE  
AO AR



ESTANQUEIDADE  
À ÁGUA



# CAPACIDADE PRODUTIVA



O grupo CDA Metais conta com **4 prensas de extrusão** de tecnologia italiana, sendo três de 7 polegadas com 1800 toneladas métricas de força, e uma de 10 polegadas com 3.300 toneladas métricas.

## 3.500

TONELADAS MENSAIS  
DE EXTRUSÃO

Com isso, o parque fabril da CDA possui capacidade de **3.500 toneladas mensais de extrusão** de perfis de alumínio.

# PINTURA ELETROSTÁTICA

O Grupo CDA Metais possui linhas de pintura vertical e horizontal com tecnologia de pintura a disco e pistolas convencionais, garantindo uma camada uniforme de poliéster e maior reaproveitamento de resíduos de pó. Em parceria com fornecedores, desenvolveram um processo de lavagem isento de cromo e um sistema de desengraxe e desoxidação ácido, eliminando o uso de produtos alcalinos.



Todas as modificações realizadas nas linhas de pintura foram acompanhadas e validadas pelos nossos fornecedores de produtos químicos e de tinta, os quais possuem os seus processos homologados pela Qualicoat. Dessa forma, possuímos o certificado de Aplicador Homologado com base na Norma Qualicoat 15ª Edição, dentro do Programa EAS (Epristinta Architectural Service).



**2.200**

TONELADAS MENSAIS DE  
PINTURA ELETROSTÁTICA

ISO 9001  
ISO 14001

**BUREAU VERITAS**  
Certification

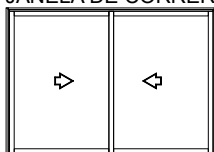


1

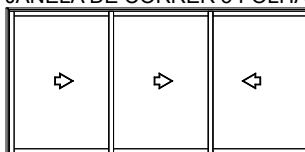
**Tipologias**



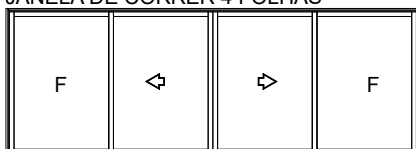
JC200  
JANELA DE CORRER 2 FOLHAS



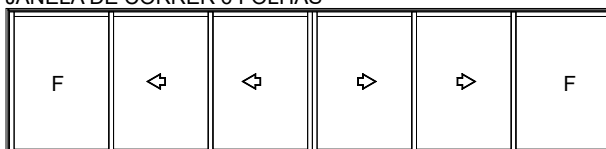
JC300  
JANELA DE CORRER 3 FOLHAS



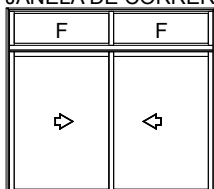
JC400  
JANELA DE CORRER 4 FOLHAS



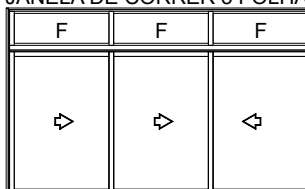
JC600  
JANELA DE CORRER 6 FOLHAS



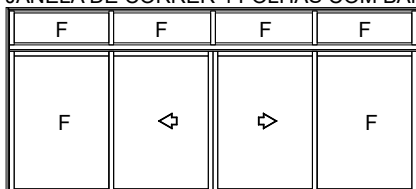
JC201  
JANELA DE CORRER 2 FOLHAS COM BANDEIRA FIXA



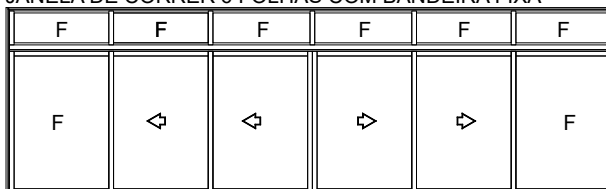
JC301  
JANELA DE CORRER 3 FOLHAS COM BANDEIRA FIXA



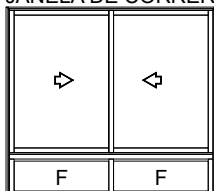
JC401  
JANELA DE CORRER 4 FOLHAS COM BANDEIRA FIXA



JC601  
JANELA DE CORRER 6 FOLHAS COM BANDEIRA FIXA

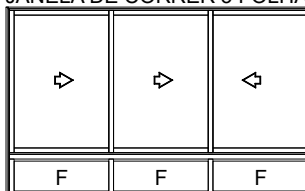


JC202  
JANELA DE CORRER 2 FOLHAS COM PEITORIL FIXO



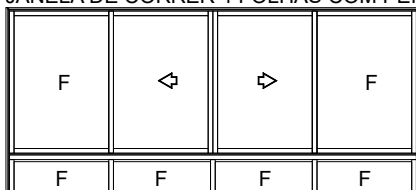
\* Peitoril não tem função de guarda corpo para essa tipologia

JC302  
JANELA DE CORRER 3 FOLHAS COM PEITORIL FIXO



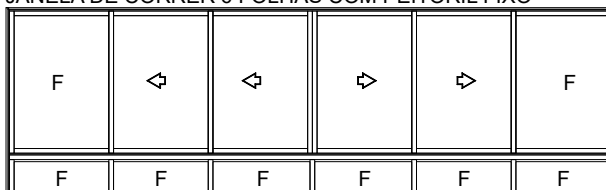
\* Peitoril não tem função de guarda corpo para essa tipologia

JC402  
JANELA DE CORRER 4 FOLHAS COM PEITORIL FIXO



\* Peitoril não tem função de guarda corpo para essa tipologia

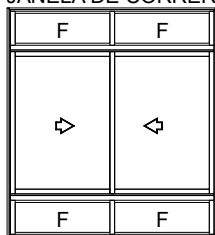
JC602  
JANELA DE CORRER 6 FOLHAS COM PEITORIL FIXO



\* Peitoril não tem função de guarda corpo para essa tipologia

JC203

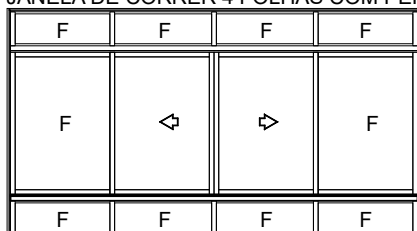
JANELA DE CORRER 2 FOLHAS COM PEITORIL E BANDEIRA FIXOS



\* Peitoril não tem função de guarda corpo para essa tipologia

JC403

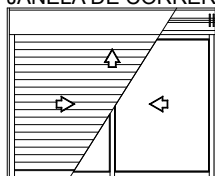
JANELA DE CORRER 4 FOLHAS COM PEITORIL E BANDEIRA FIXOS



\* Peitoril não tem função de guarda corpo para essa tipologia

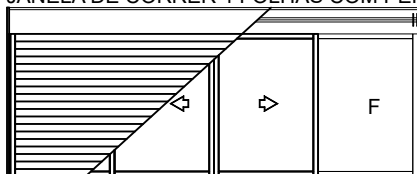
IJC200

JANELA DE CORRER 2 FOLHAS COM PERSIANA INTEGRADA



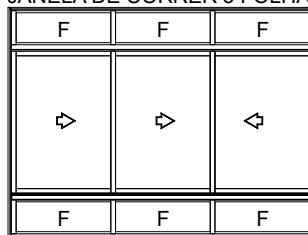
IJC400

JANELA DE CORRER 4 FOLHAS COM PERSIANA INTEGRADA



JC303

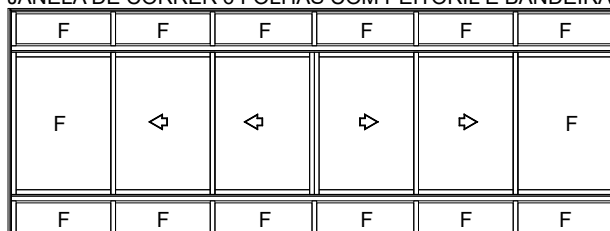
JANELA DE CORRER 3 FOLHAS COM PEITORIL E BANDEIRA FIXOS



\* Peitoril não tem função de guarda corpo para essa tipologia

JC603

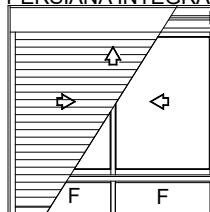
JANELA DE CORRER 6 FOLHAS COM PEITORIL E BANDEIRA FIXOS



\* Peitoril não tem função de guarda corpo para essa tipologia

IJC202

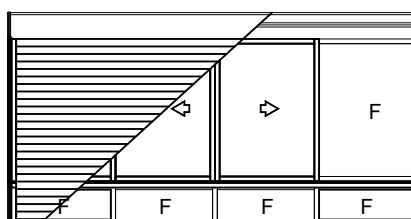
JANELA DE CORRER 2 FOLHAS COM PEITORIL FIXO COM PERSIANA INTEGRADA



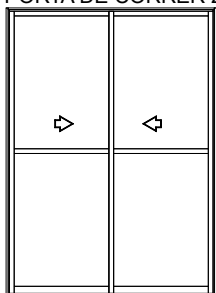
\* Peitoril não tem função de guarda corpo para essa tipologia

IJC402

JANELA DE CORRER 4 FOLHAS COM PERSIANA INTEGRADA COM PEITORIL FIXO

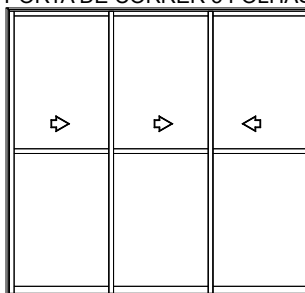


PC200  
PORTA DE CORRER 2 FOLHAS



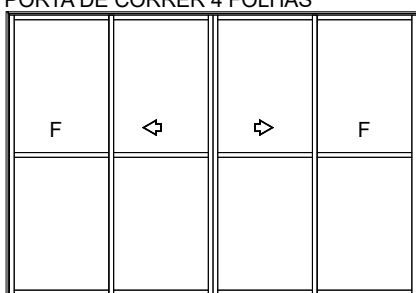
\* Solução com travessa ou sem travessa

PC300  
PORTA DE CORRER 3 FOLHAS



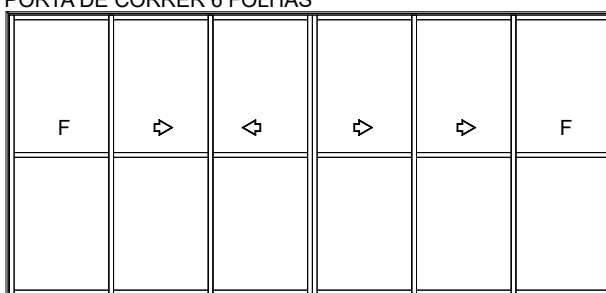
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PC400  
PORTA DE CORRER 4 FOLHAS



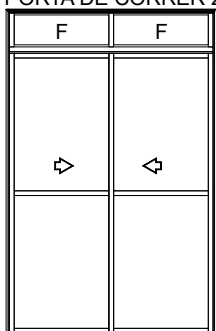
\* Solução com travessa ou sem travessa

PC600  
PORTA DE CORRER 6 FOLHAS



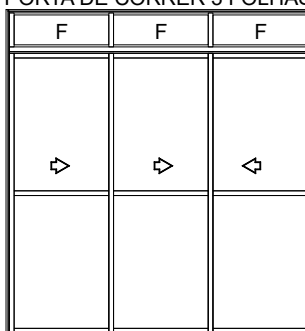
\* Solução com travessa ou sem travessa

PC201  
PORTA DE CORRER 2 FOLHAS COM BANDEIRA FIXA



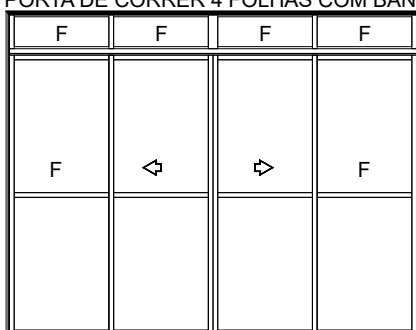
\* Solução com travessa ou sem travessa

PC301  
PORTA DE CORRER 3 FOLHAS COM BANDEIRA FIXA



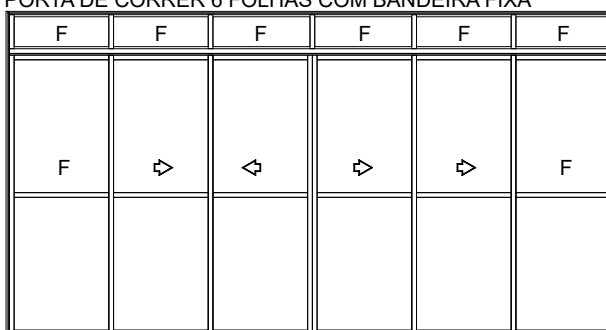
\* Solução com travessa ou sem travessa

PC401  
PORTA DE CORRER 4 FOLHAS COM BANDEIRA FIXA



\* Solução com travessa ou sem travessa

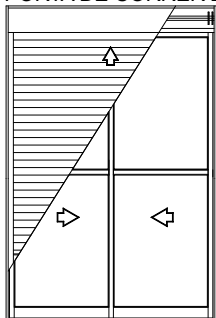
PC601  
PORTA DE CORRER 6 FOLHAS COM BANDEIRA FIXA



\* Solução com travessa ou sem travessa

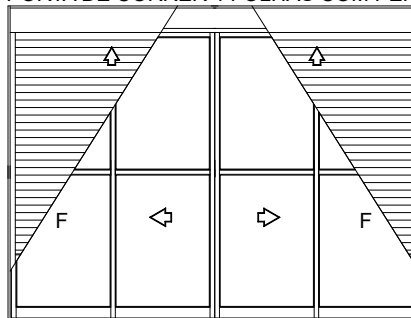


IPC200  
PORTA DE CORRER 2 FOLHAS COM PERSIANA INTEGRADA



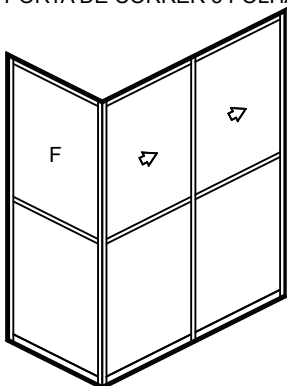
\* Solução com travessa ou sem travessa

IPC400  
PORTA DE CORRER 4 FOLHAS COM PERSIANA INTEGRADA

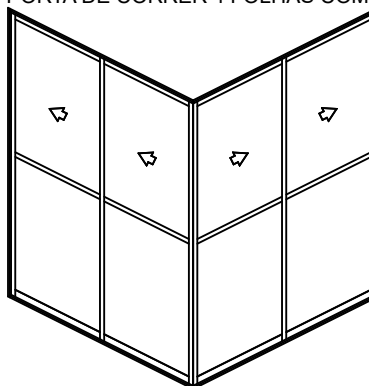


\* Solução com travessa ou sem travessa

PC390  
PORTA DE CORRER 3 FOLHAS COM CANTO EM 90° GRAUS



PC490  
PORTA DE CORRER 4 FOLHAS COM CANTO EM 90° GRAUS

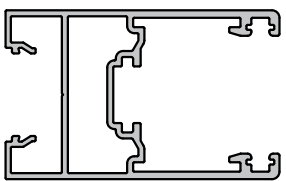


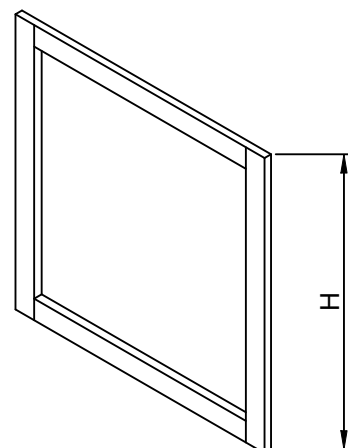
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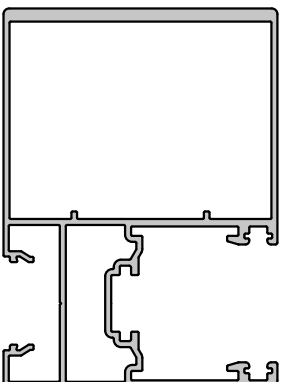
## Cálculo Estructural

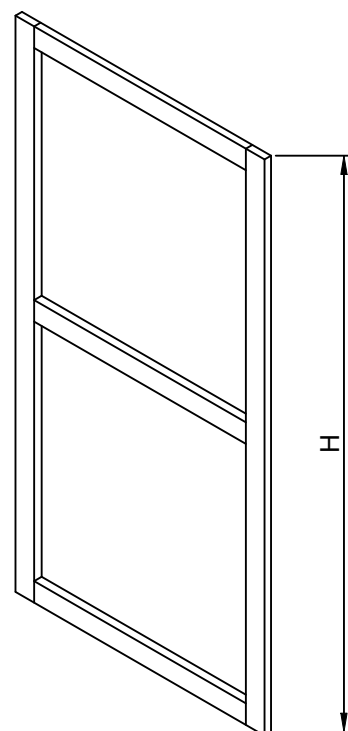
DIMENSIONAMIENTO / FÓRMULAS

## LIMITES POR RESISTÊNCIA DE USO OU FLEXÃO

FOLHA DE CORRER (JANELA) LIGA 6060-T5	
Perfil	FZ-0219
	
Altura máx. (H)	2900 mm



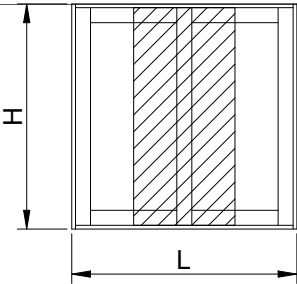
FOLHA DE CORRER (PORTA) LIGA 6060-T5	
Perfil	FZ-0220
	
Altura máx. (H)	4900 mm



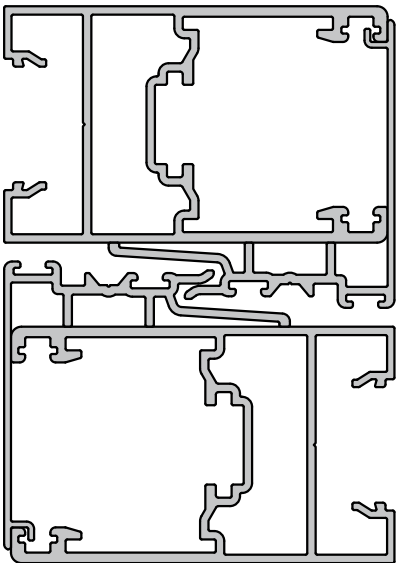
**\*OBSERVAÇÃO:** Altura máxima do ensaio de esforço. Para altura máxima da esquadria levar em consideração gráficos a seguir.



**PRESSÃO DE VENTO**



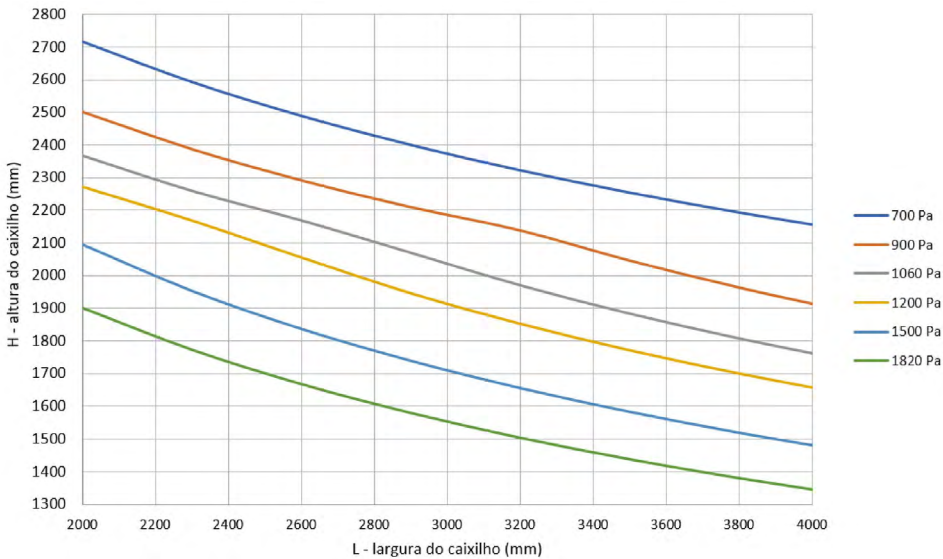
FZ-0219		
Jx	178.833	mm4
Wx	7.859	mm3



FZ-0223		
Jx	49.885	mm4
Wx	1.234	mm3

FZ-0223		
Jx	49.885	mm4
Wx	1.234	mm3

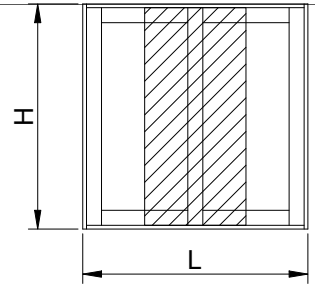
FZ-0219		
Jx	178.833	mm4
Wx	7.859	mm3



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.

## PRESSÃO DE VENTO

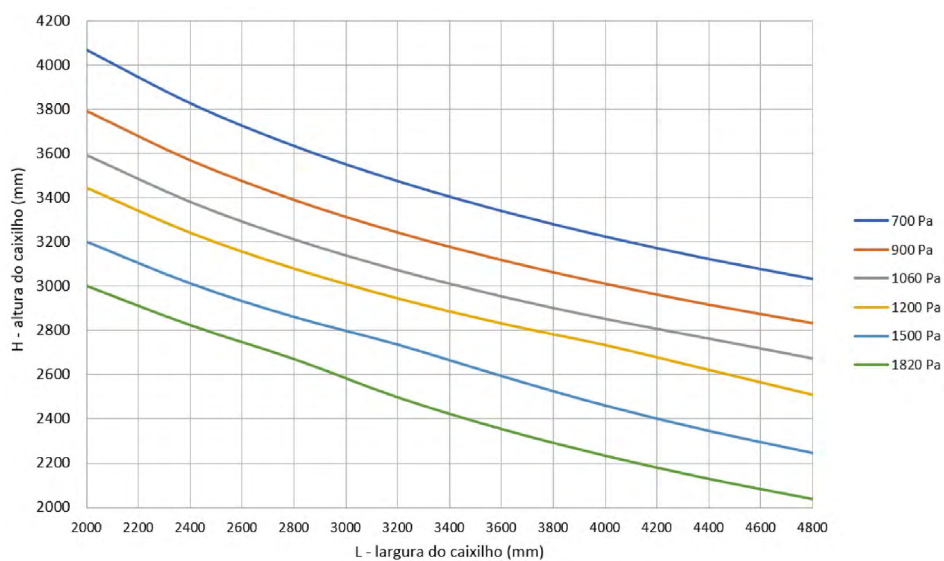
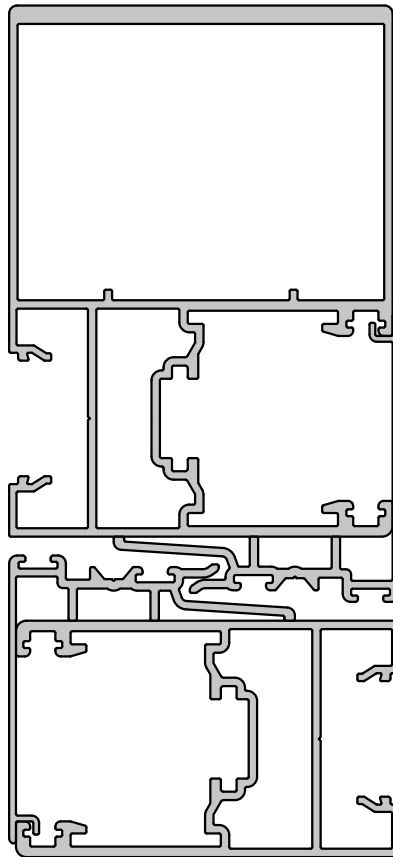


FZ-0220		
Jx	1.321.091	mm4
Wx	25.787	mm3

FZ-0223		
Jx	49.885	mm4
Wx	1.234	mm3

FZ-0223		
Jx	49.885	mm4
Wx	1.234	mm3

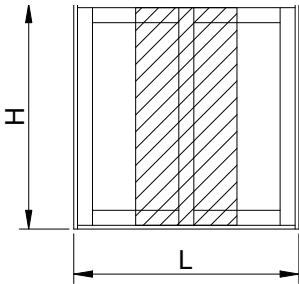
FZ-0219		
Jx	178.833	mm4
Wx	7.859	mm3



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.

**PRESSÃO DE VENTO**

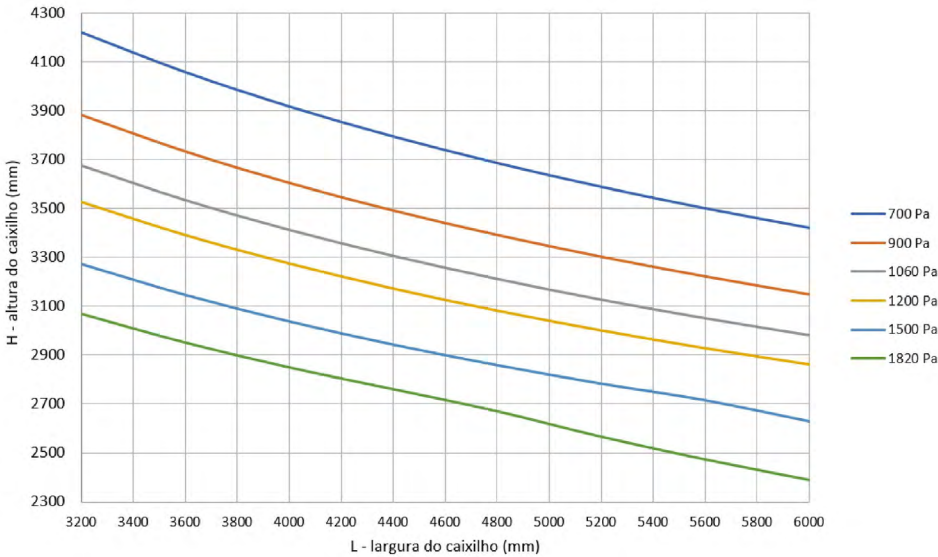
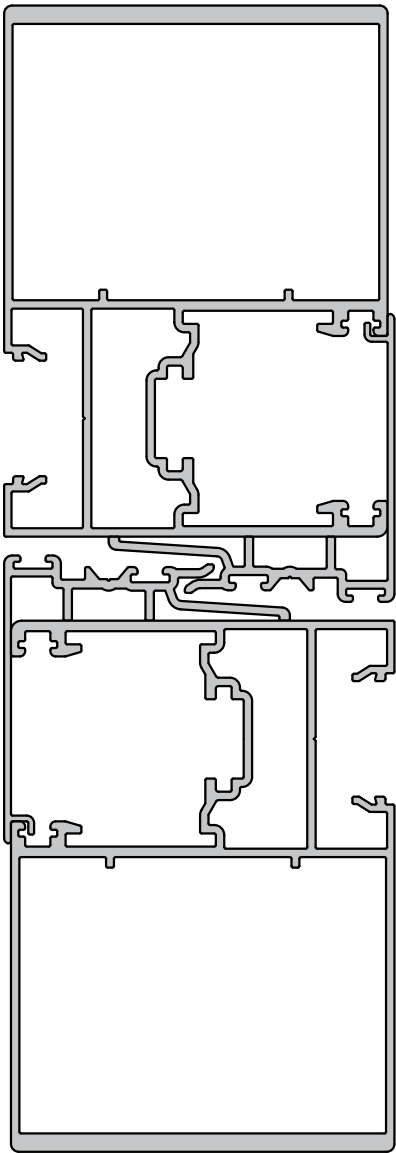


FZ-0220		
Jx	1.321.091	mm4
Wx	25.787	mm3

FZ-0223		
Jx	49.885	mm4
Wx	1.234	mm3

FZ-0223		
Jx	49.885	mm4
Wx	1.234	mm3

FZ-0220		
Jx	1.321.091	mm4
Wx	25.787	mm3

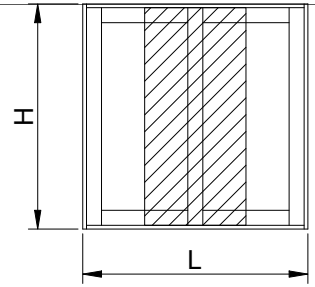


PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

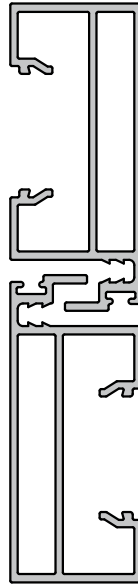
- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.



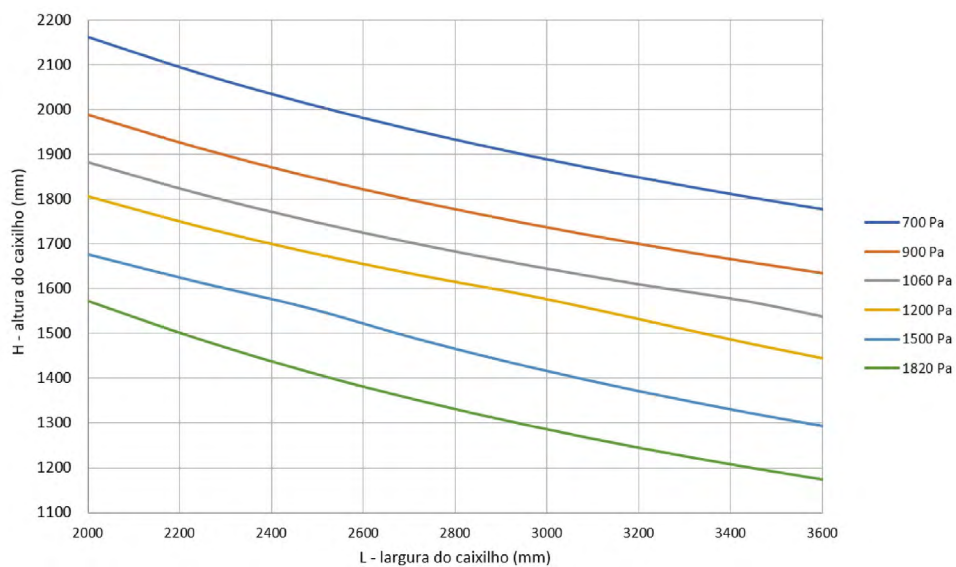
# PRESSÃO DE VENTO



FZ-0221		
Jx	115.228	mm4
Wx	3.878	mm3



FZ-0221		
Jx	115.228	mm4
Wx	3.878	mm3

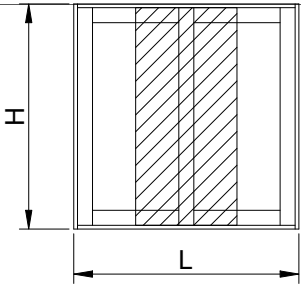
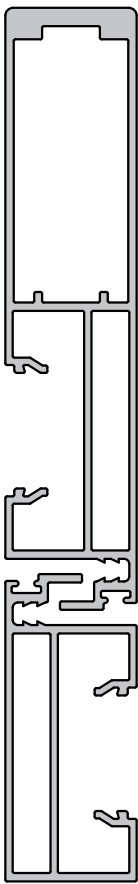


PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

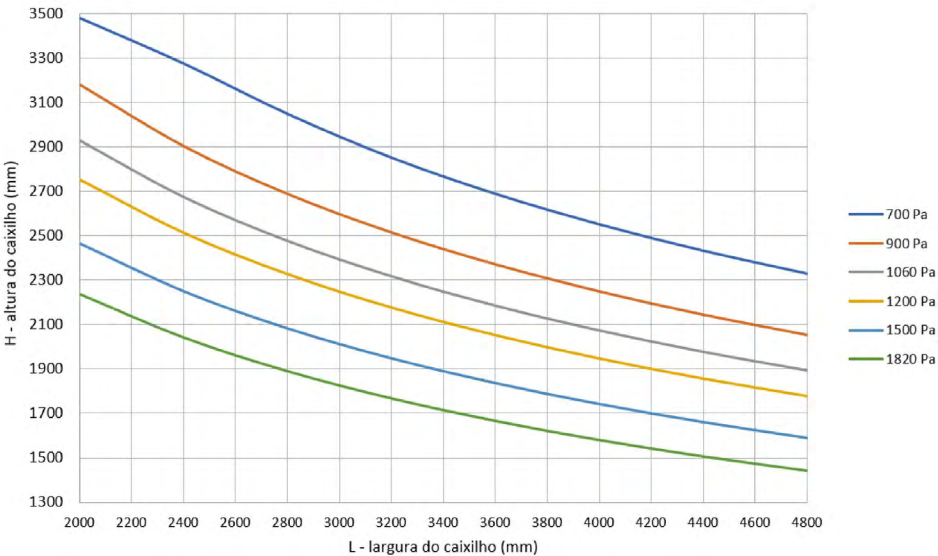
- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.

PRESSÃO DE VENTO

FZ-0222		
Jx	845.767	mm4
Wx	13.774	mm3



FZ-0221		
Jx	115.228	mm4
Wx	3.878	mm3



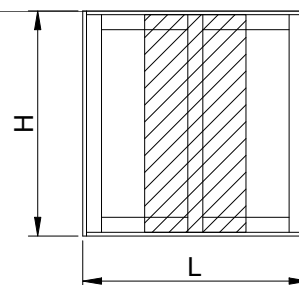
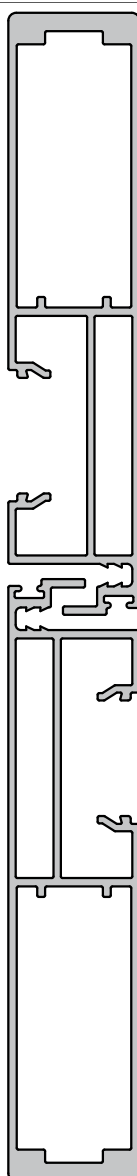
PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

\* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado

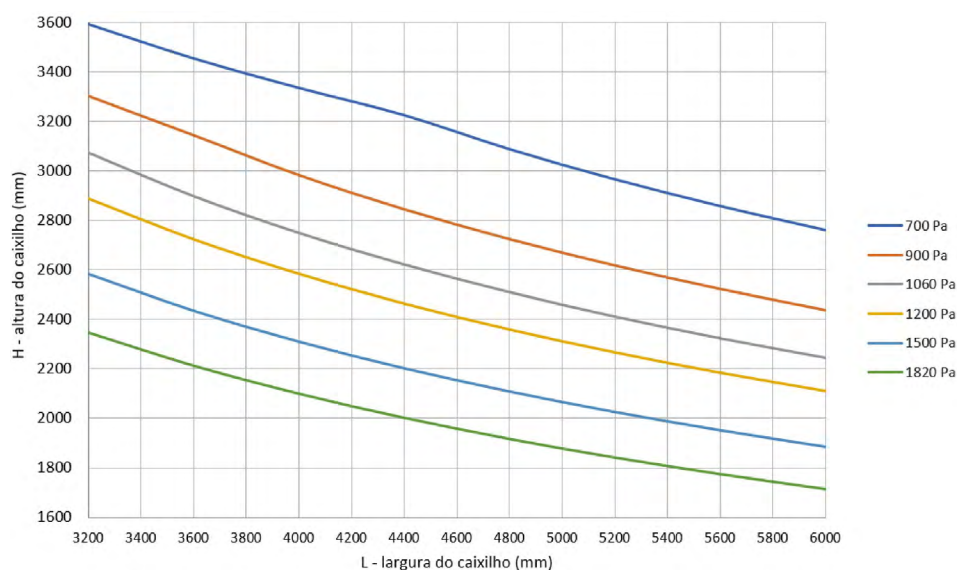
\* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.

## PRESSÃO DE VENTO

FZ-0222		
Jx	845.767	mm <sup>4</sup>
Wx	13.774	mm <sup>3</sup>



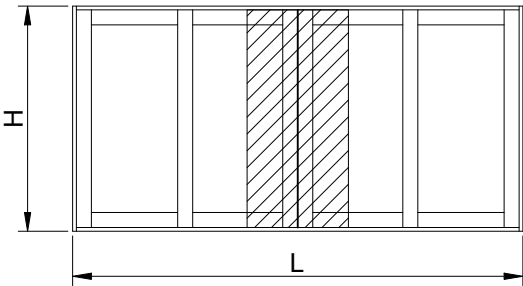
FZ-0222		
Jx	845.767	mm <sup>4</sup>
Wx	13.774	mm <sup>3</sup>



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

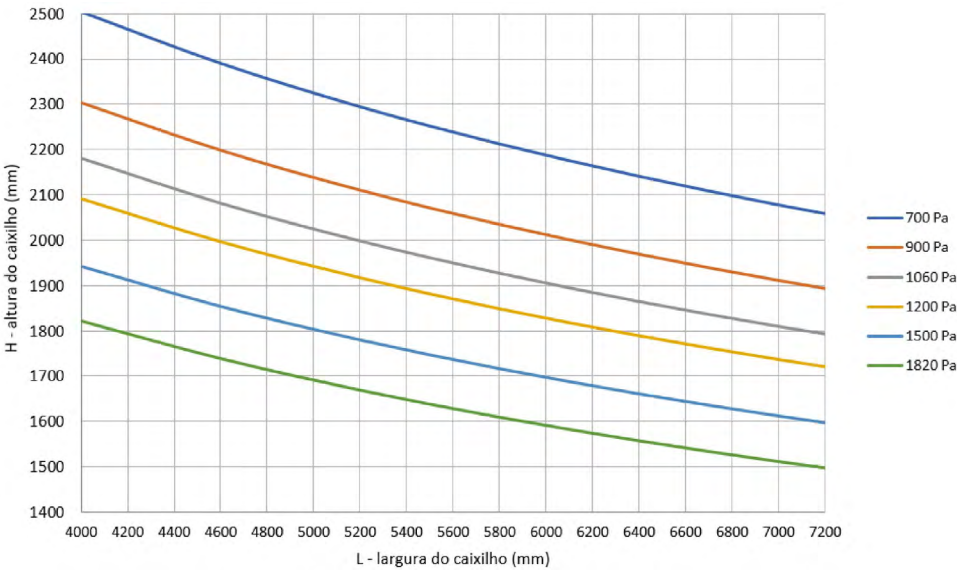
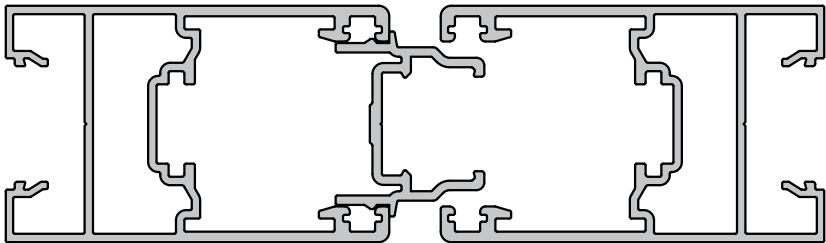
- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas soldas. Deve-se estudar caso a caso na seção dos componentes.

PRESSÃO DE VENTO



FZ-0219		
Jx	178.833	mm4
Wx	7.859	mm3

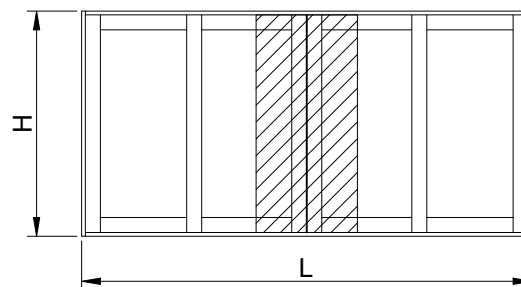
FZ-0219		
Jx	178.833	mm4
Wx	7.859	mm3



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

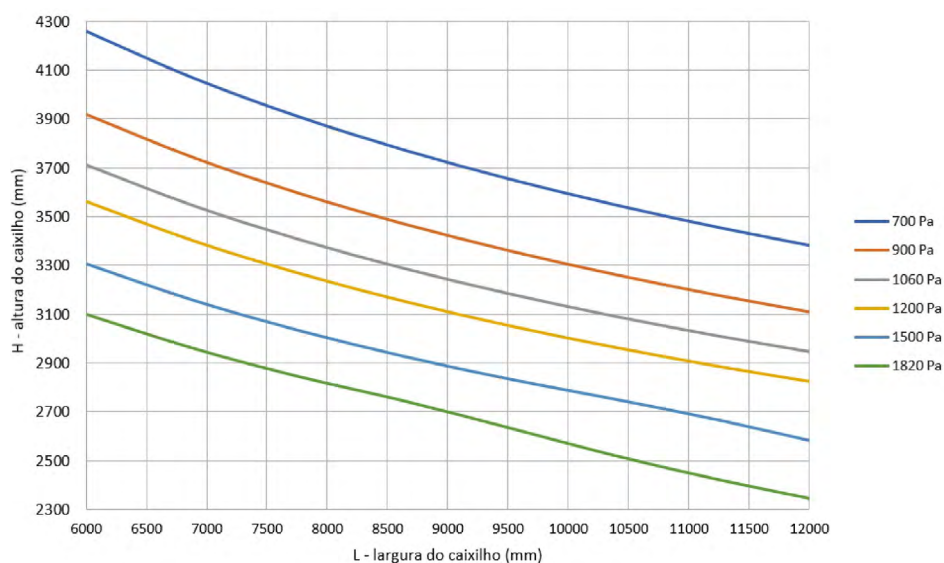
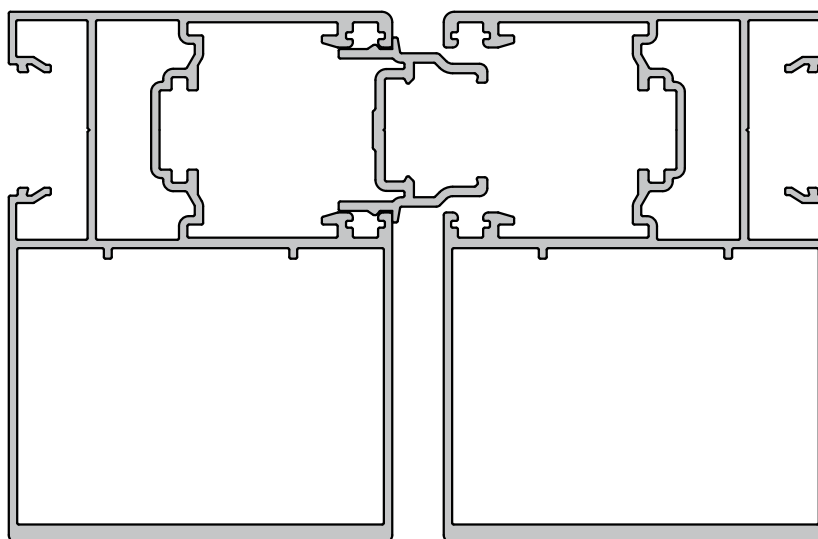
- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.

## PRESSÃO DE VENTO



FZ-0220		
Jx	1.321.091	mm4
Wx	25.787	mm3

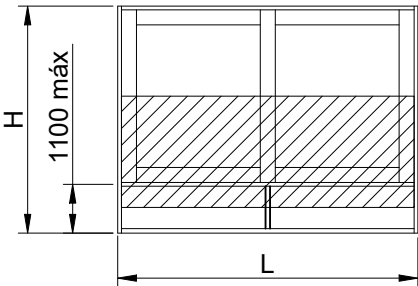
FZ-0220		
Jx	1.321.091	mm4
Wx	25.787	mm3



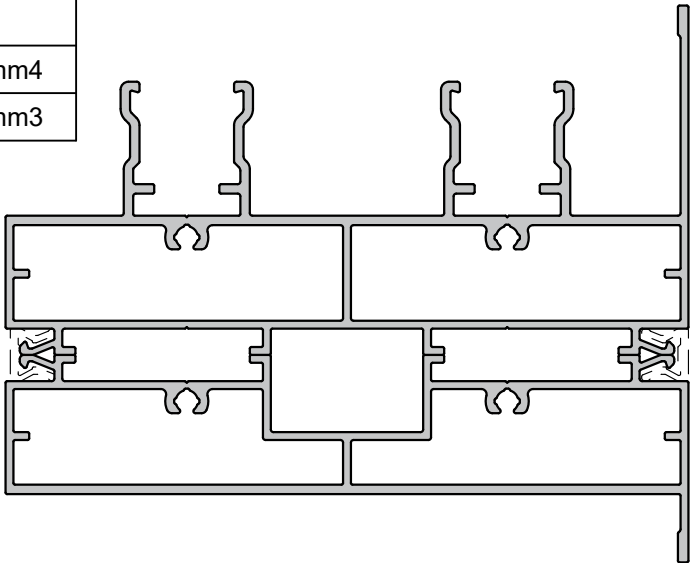
PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

- \* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado
- \* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.

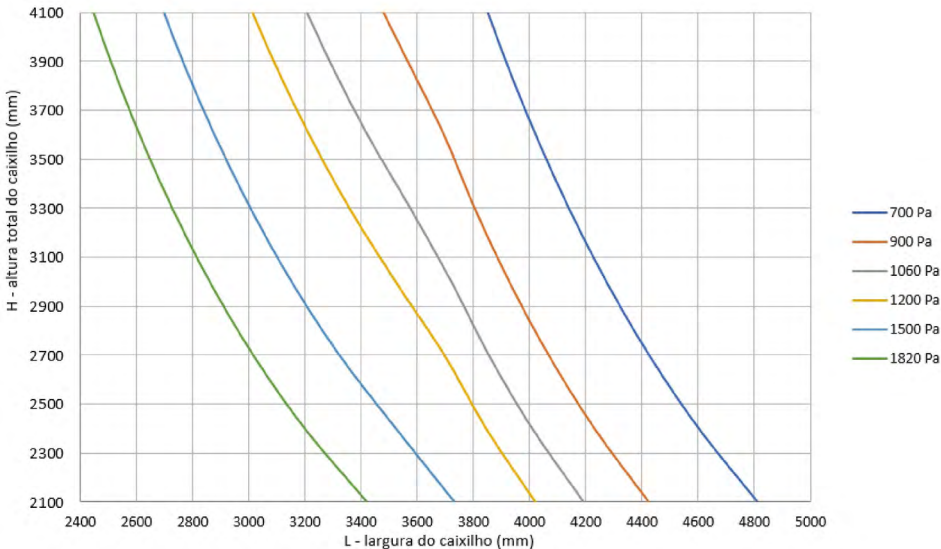
**PRESSÃO DE VENTO**



FZ-0247		
Jy	1.526.495	mm4
Wy	21.999	mm3



FZ-0225		
Jy	1.139.499	mm4
Wy	16.964	mm3

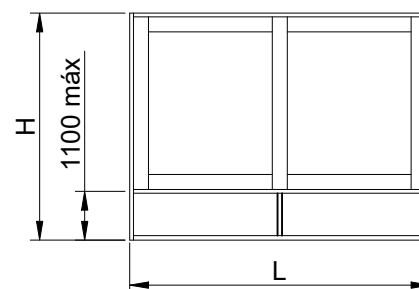


\* O gráfico de dispersão prevê flecha máxima permitida pela NBR 10821/2023 e também as máximas tensões suportadas pelo material - liga 6060 T5 coeficiente de segurança já aplicado

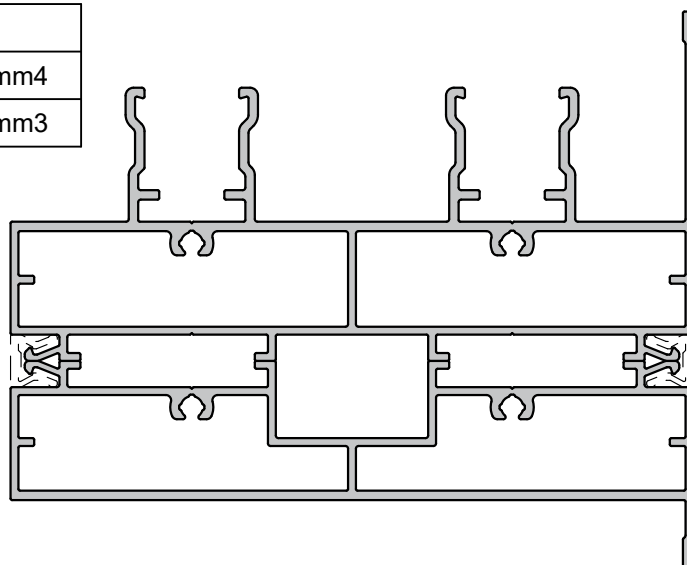
\* As dimensões de folhas contidas neste gráfico, não contemplam máximas cargas suportadas pelas roldanas. Deve-se estudar caso a caso na seção dos componentes.



## CARGA DE USO



FZ-0247		
Jy	1.526.495	mm4
Wy	21.999	mm3



FZ-0225		
Jy	1.139.499	mm4
Wy	16.964	mm3

Carga de Uso Conforme NBR-14718/2019					
Aplicação	Quantidade de Pavimentos	Altura Máxima m	Região do País	Carga de Uso N/m	Largura Máxima m
Residencial ou Comercial de uso privativo e áreas técnicas	30	90	I	400	5300
			II	500	4950
			III	650	4350
			IV	800	3900
			V	1000	3500

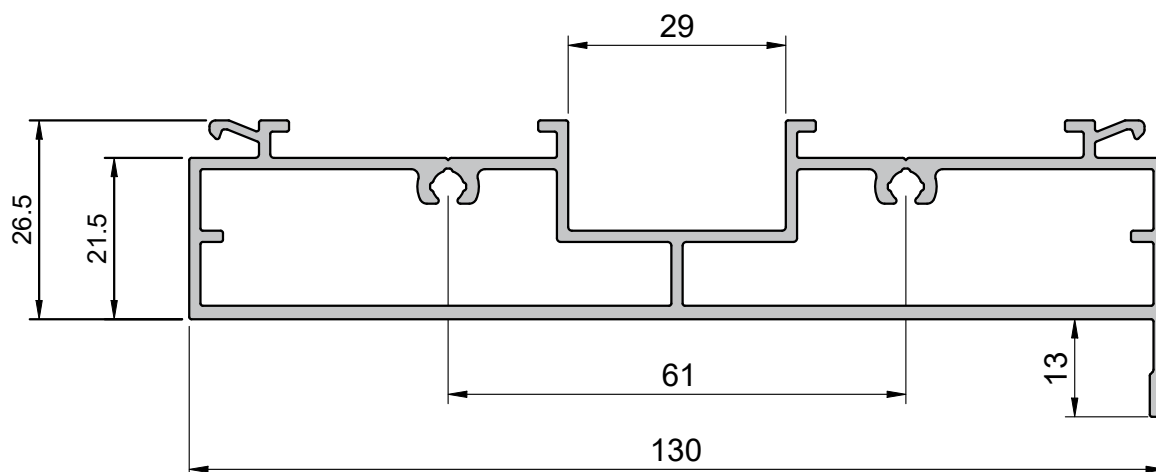
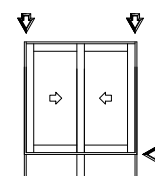
PERIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

\* A tabela acima mostra as medidas máximas conforme NBR 14718/2019 para carga de uso.

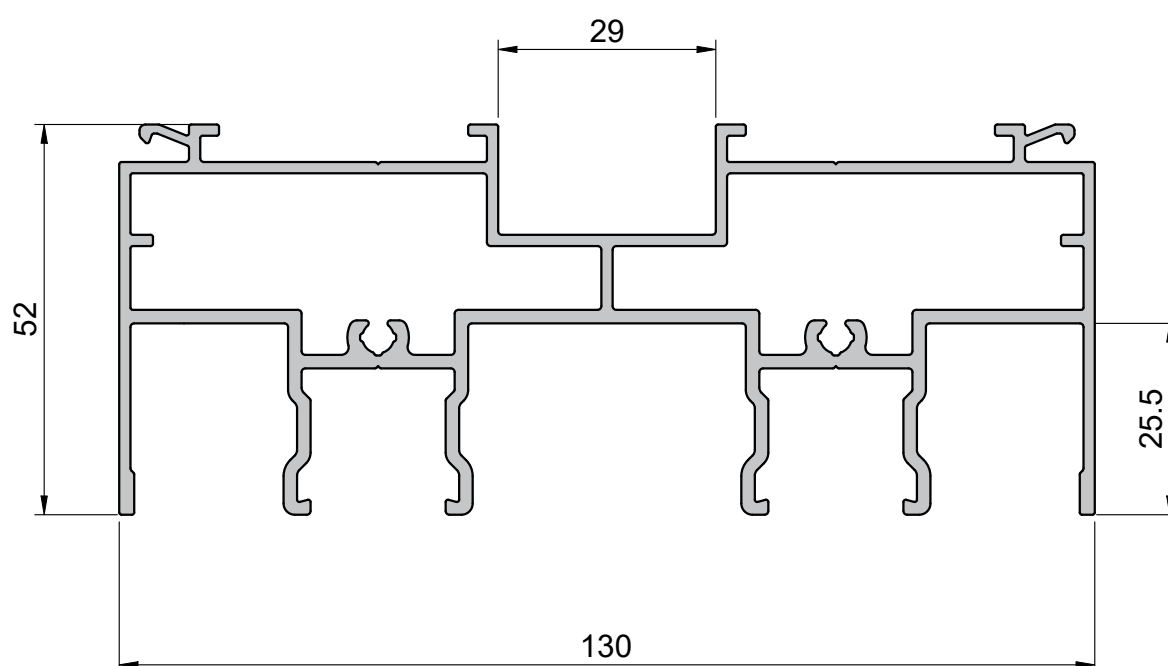
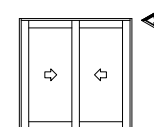
**Perfis**

**3**

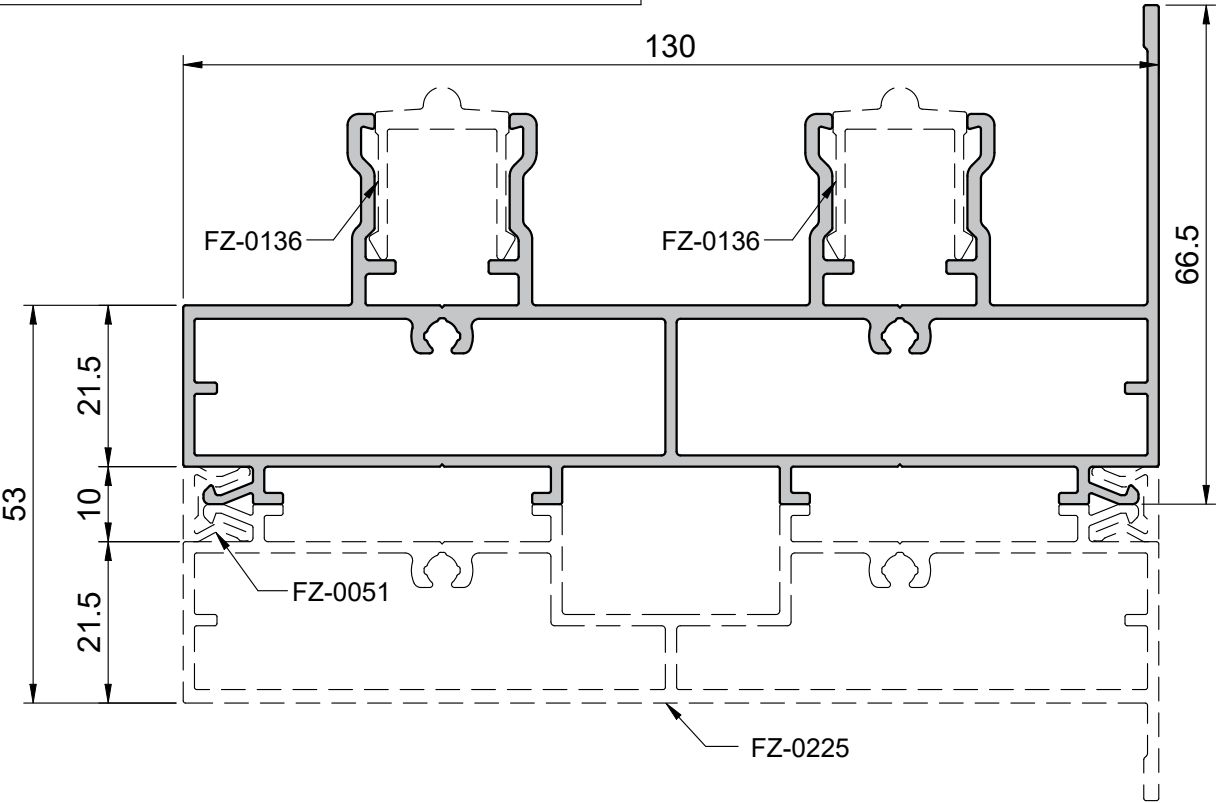
FZ-0225	Marco Lateral
	1,797 Kg/m
$J_y = 1.139.808 \text{ mm}^4$   $W_y = 16.969 \text{ mm}^3$	



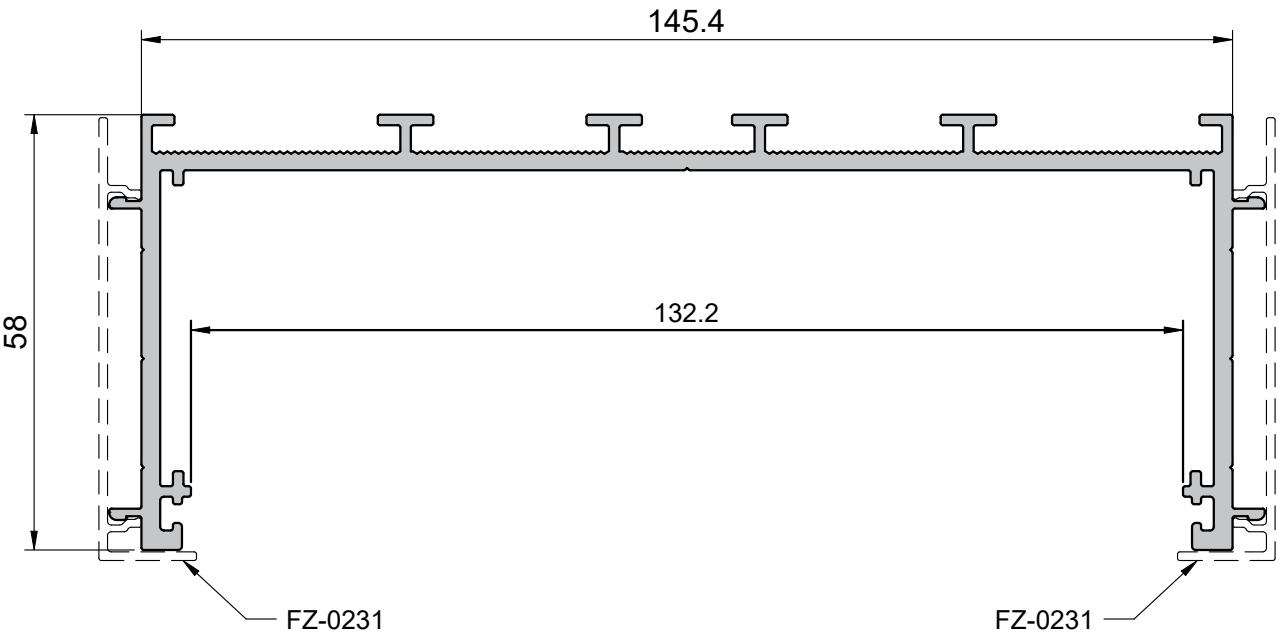
FZ-0226	Trilho Superior
	2,509 Kg/m
$J_y = 1.602.171 \text{ mm}^4$   $W_y = 24.649 \text{ mm}^3$	



FZ-0247	Trilho inferior
	2,495 Kg/m
$J_y = 1.526.495 \text{ mm}^4$   $W_y = 21.999 \text{ mm}^3$	

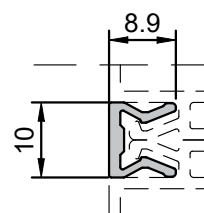
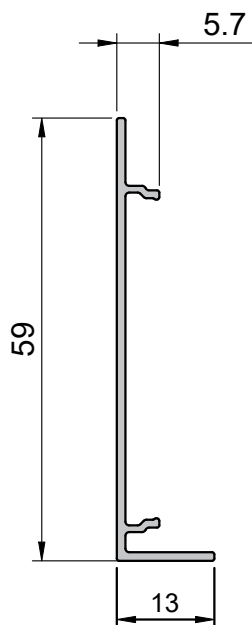


FZ-0230	Telescopia 2 Planos
	2,010 Kg/m



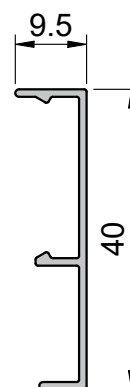
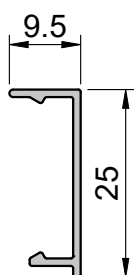
FZ-0231	Arremate de Telescopia
	0,247 Kg/m

FZ-0051	Clip de junção de marcos
	0,095 Kg/m

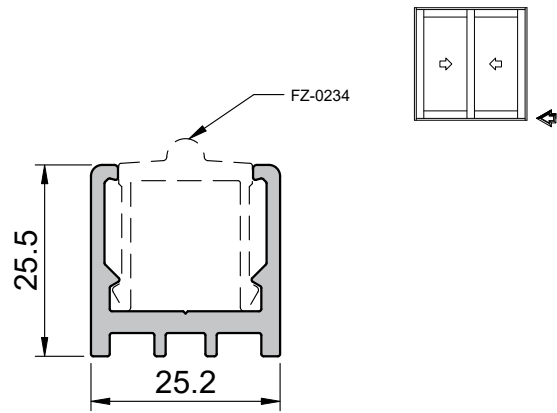


FZ-0052	Arremate
	0,111 Kg/m

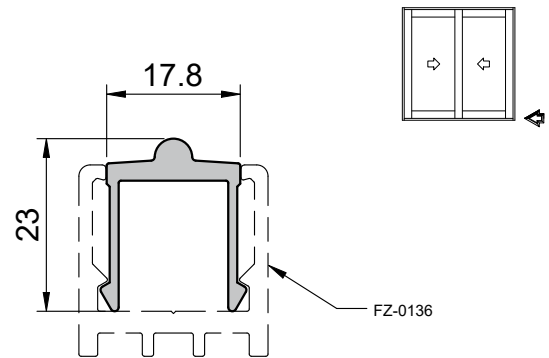
FZ-0053	Arremate
	0,166 Kg/m



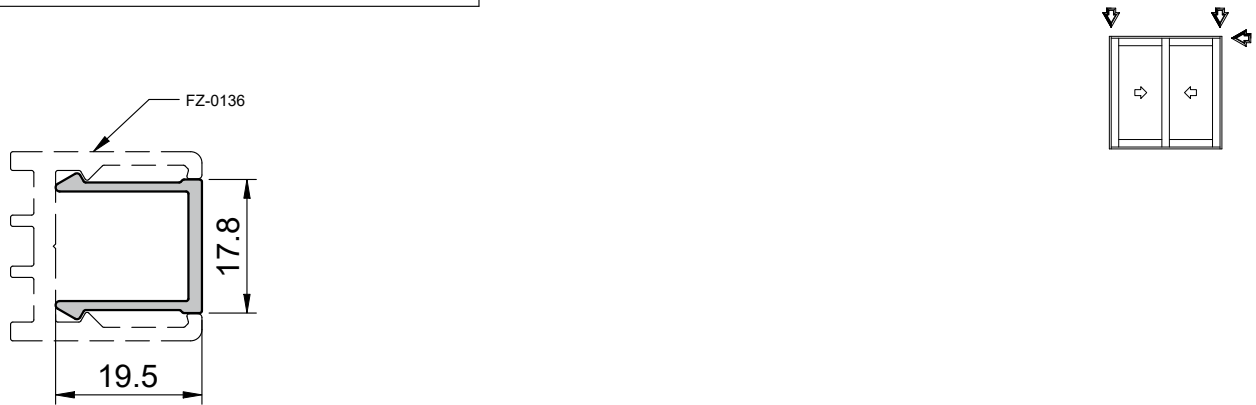
FZ-0136	Trilho inferior
	0,503 Kg/m



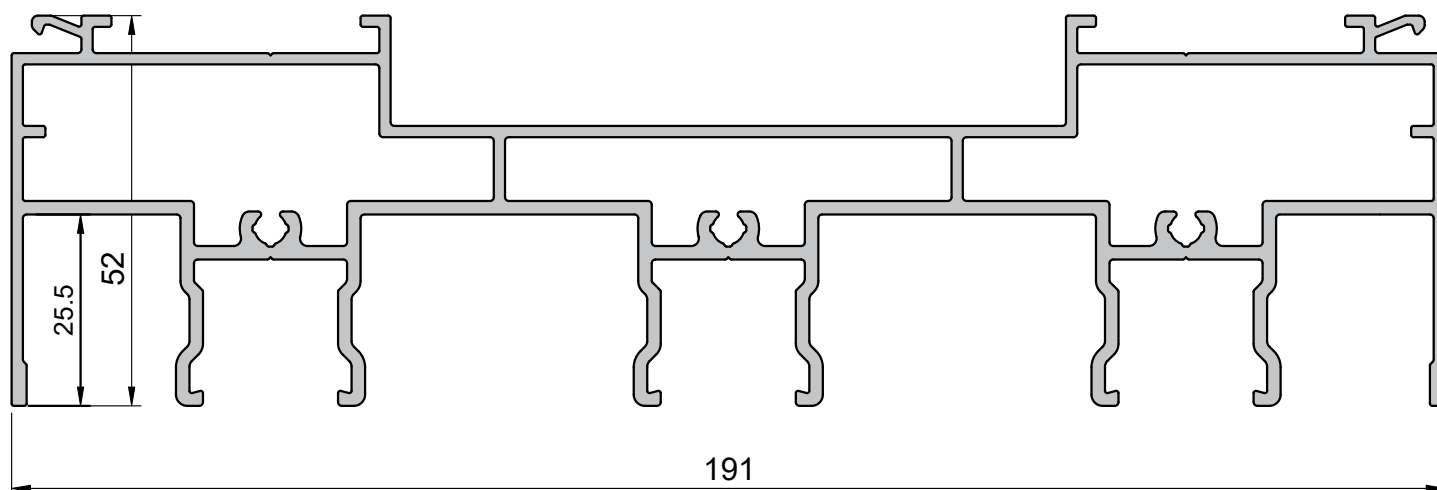
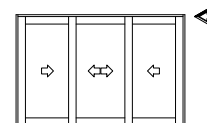
FZ-0234	Tampa do trilho
	0,281 Kg/m



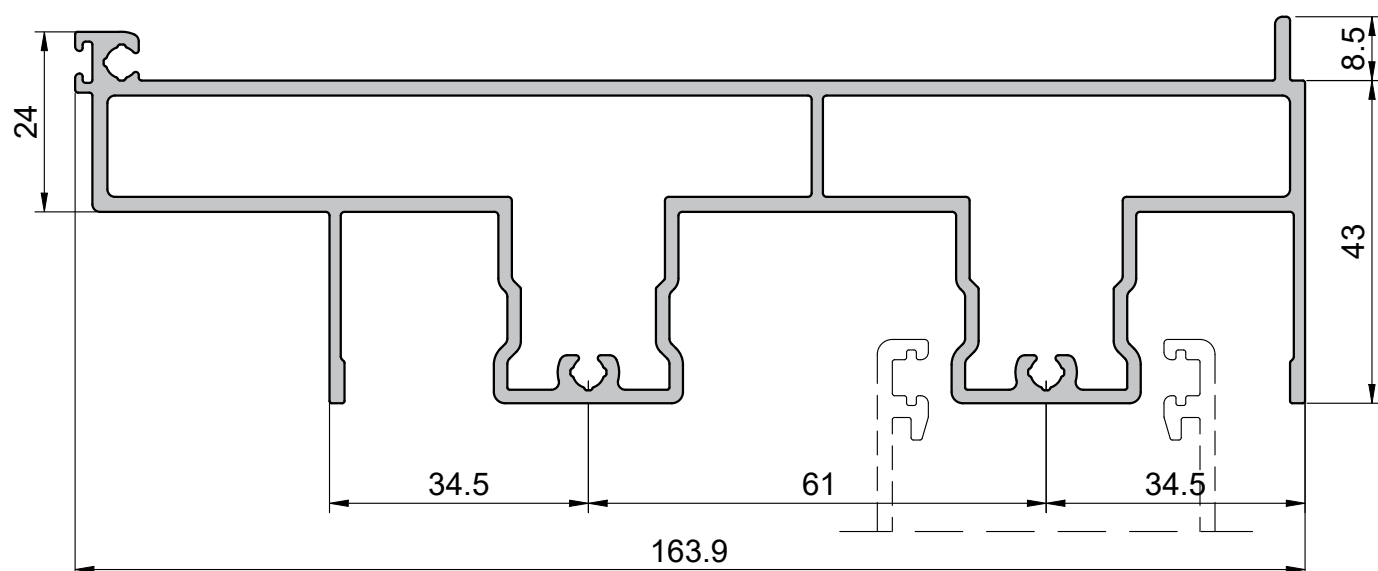
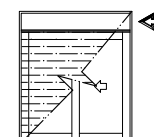
FZ-0235	Tampa Mata Junta Lateral/Superior
	0,215 Kg/m



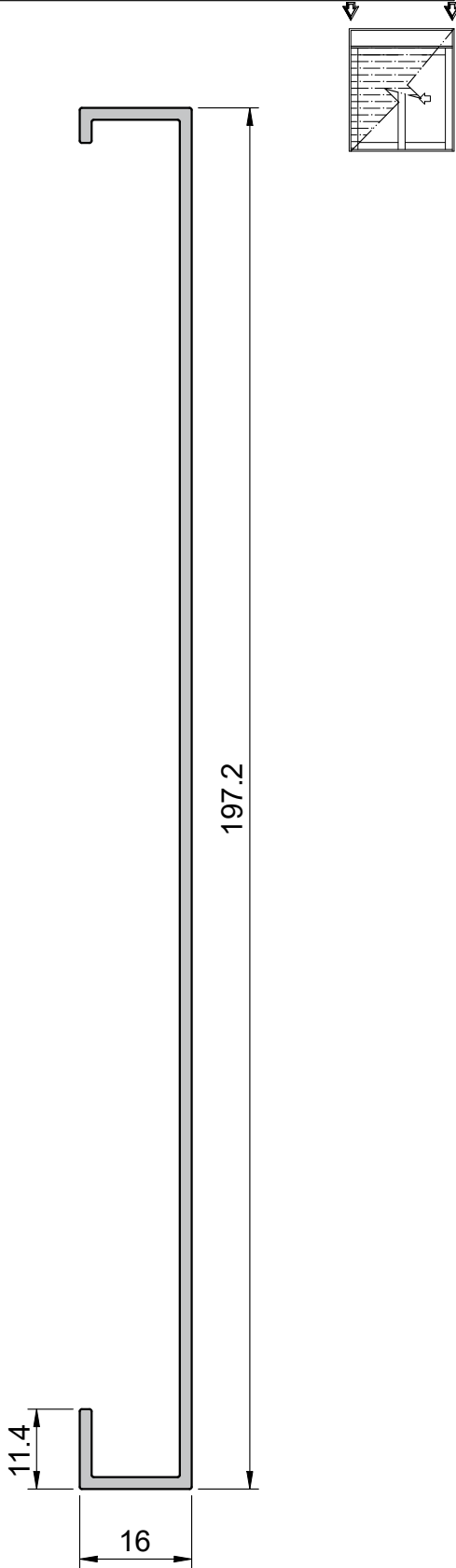
FZ-0238	Trilho Superior/Inferior
	3,421 Kg/m
$J_y = 4.619.520 \text{ mm}^4$   $W_y = 48.372 \text{ mm}^3$	



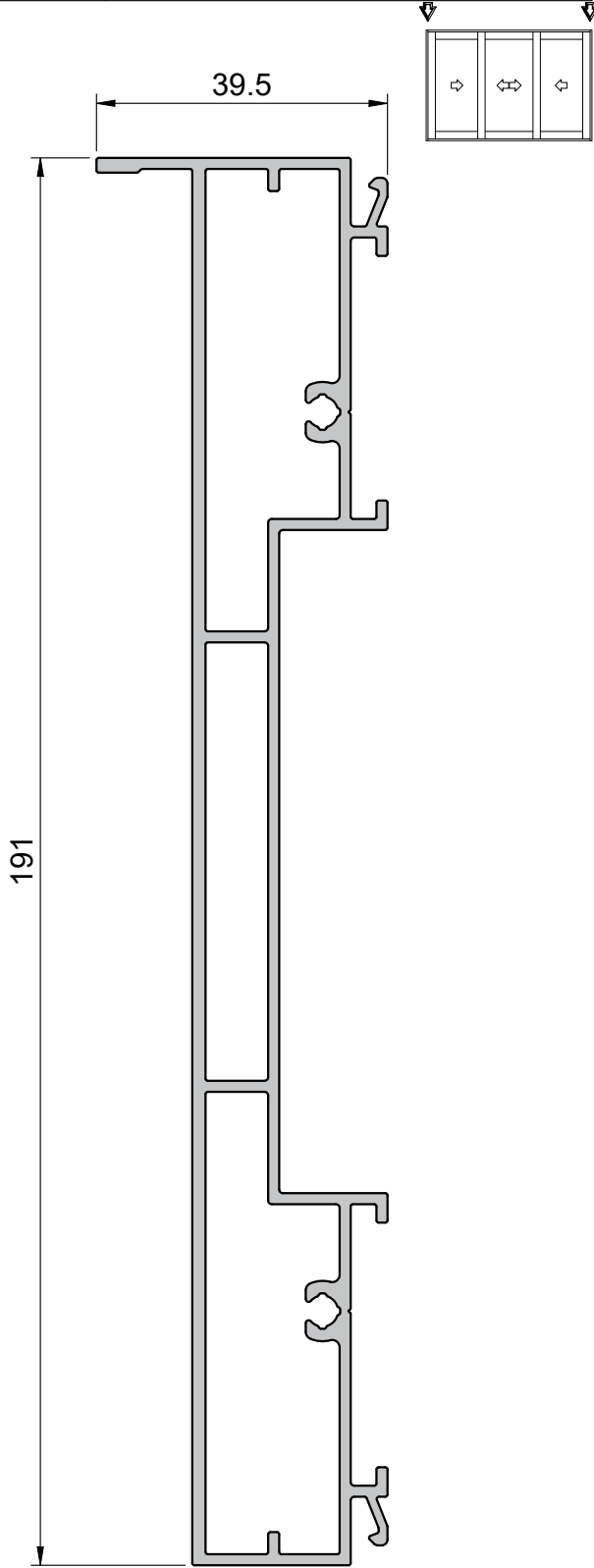
FZ-0248	Trilho Superior Integrada
	2,928 Kg/m
$J_y = 2.700.621 \text{ mm}^4$   $W_y = 31.124 \text{ mm}^3$	



FZ-0103	Marco Lateral Integrada
	1,100 Kg/m

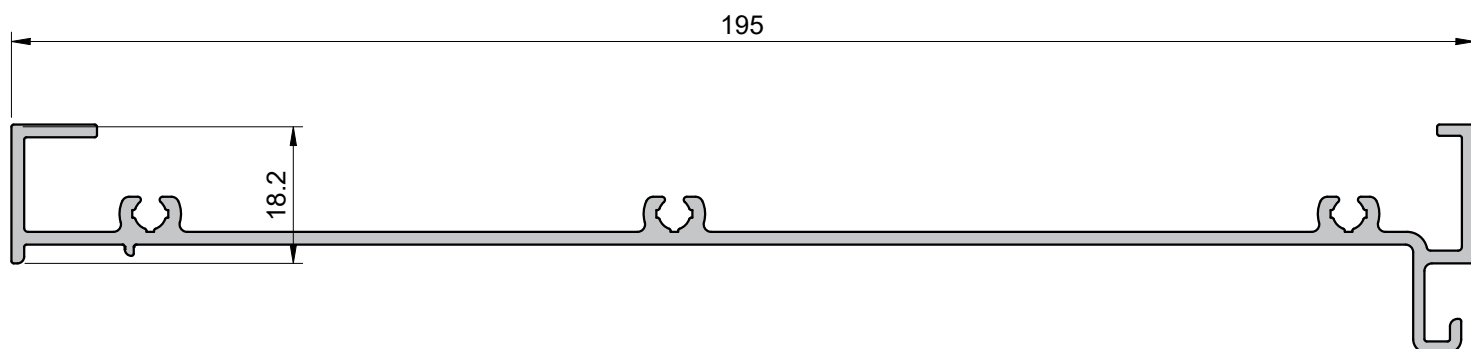
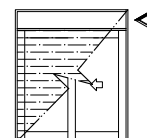


FZ-0239	Marco Lateral
	2,378 Kg/m



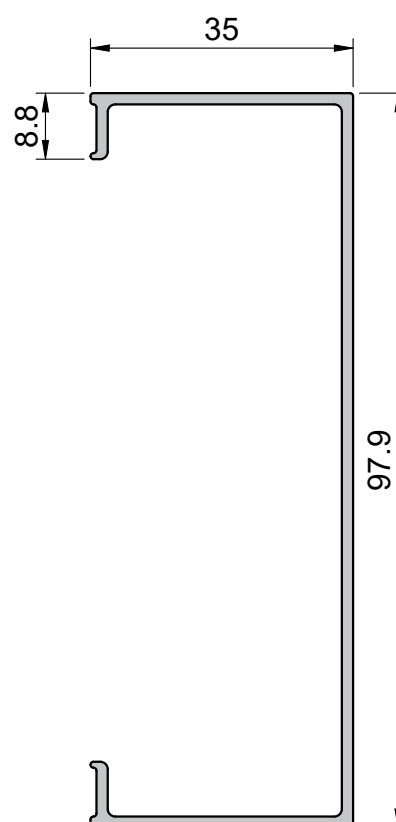
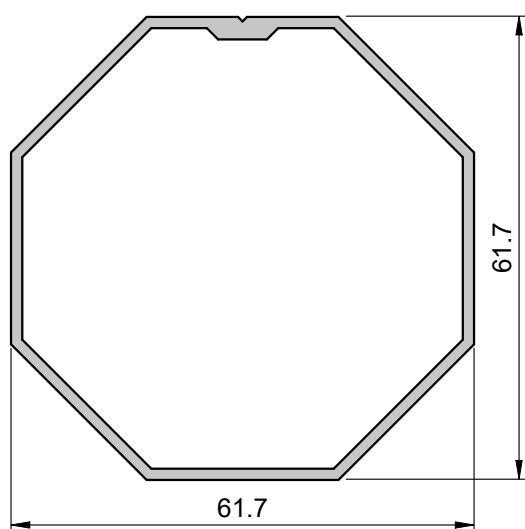


FZ-0104	Marco Superior Integrada
	1,375 Kg/m

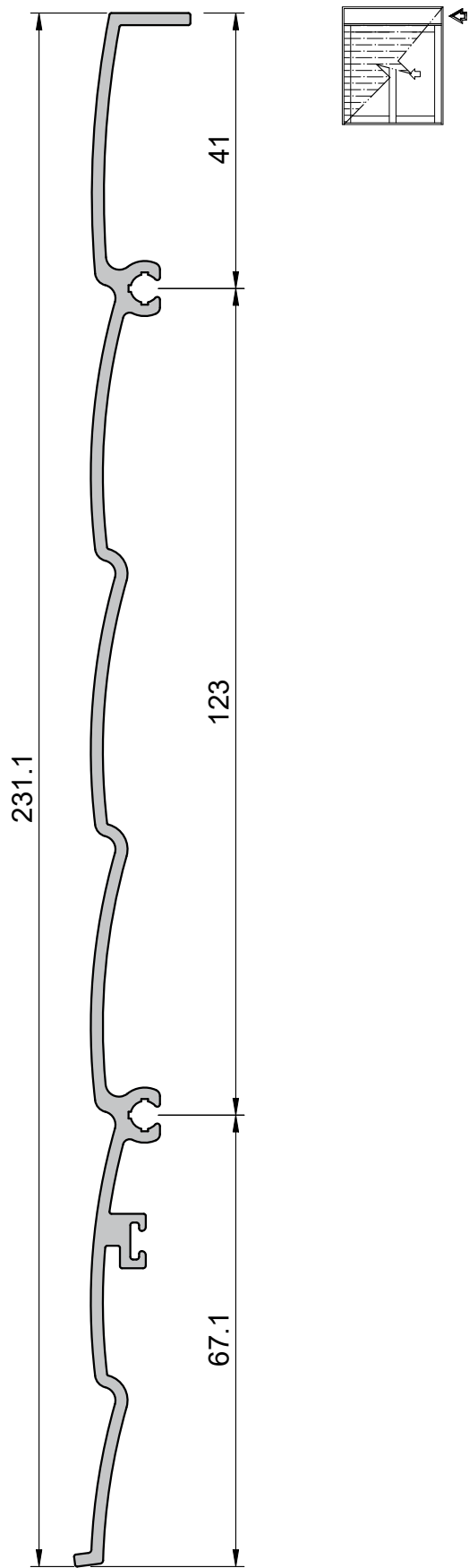


MN-015	Tubo Octogonal 60
	0,843 Kg/m

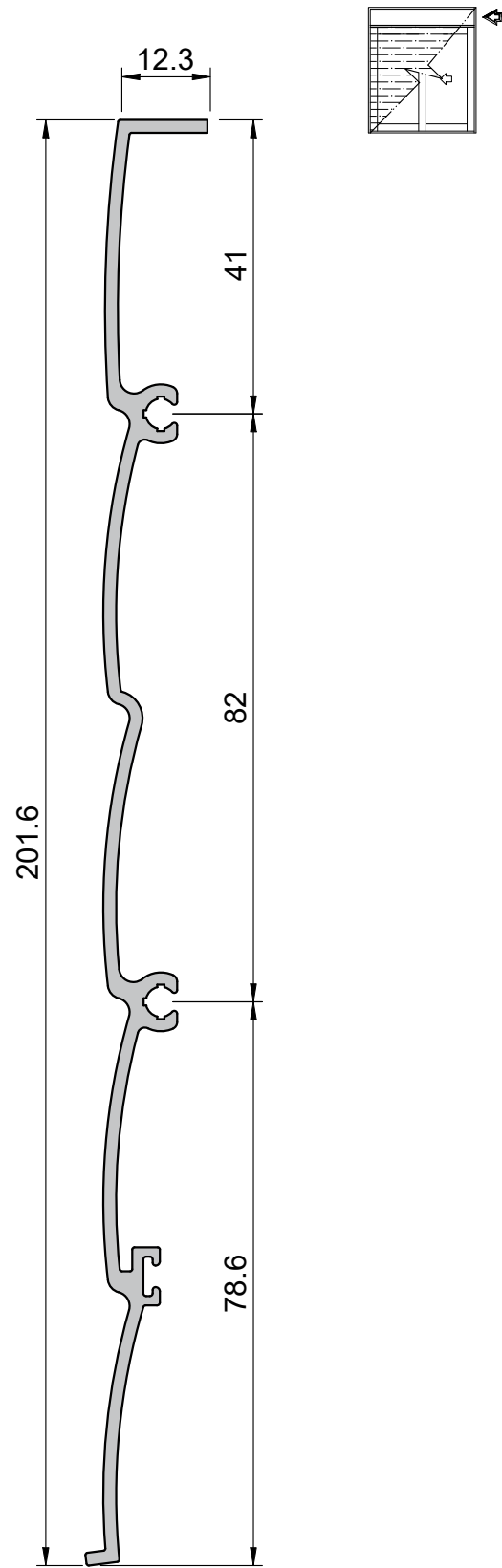
MN-050	Caixa Guia do Recolhedor
	0,734 Kg/m



FZ-0106	Tampa Externa Caixa Integrada
	1,461 Kg/m

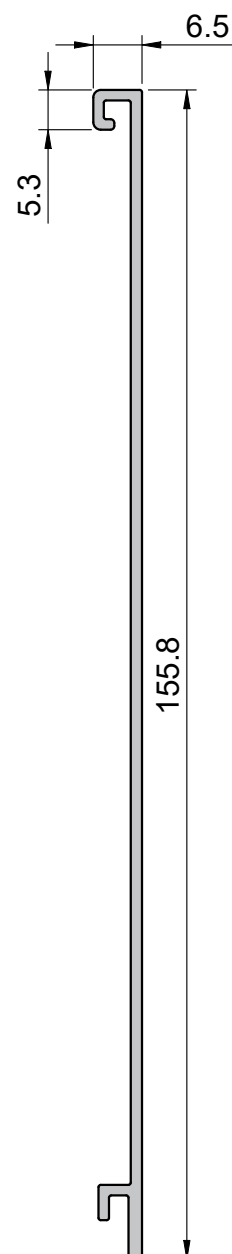
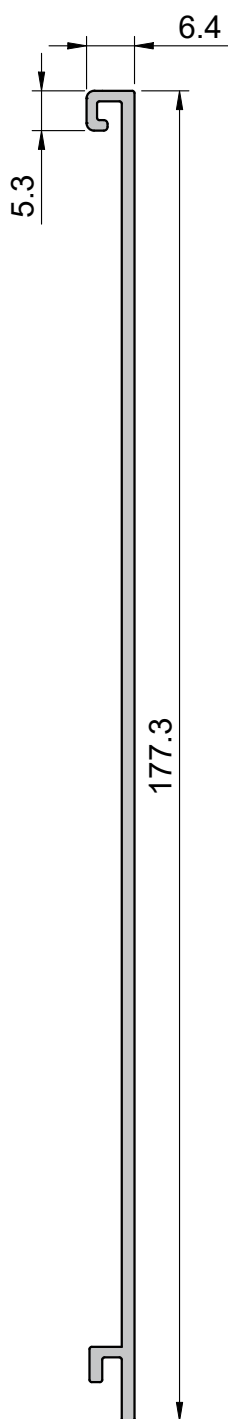
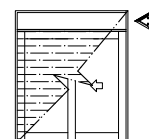
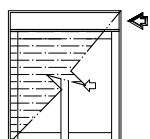


FZ-0113	Tampa Externa Caixa Integrada
	1,286 Kg/m

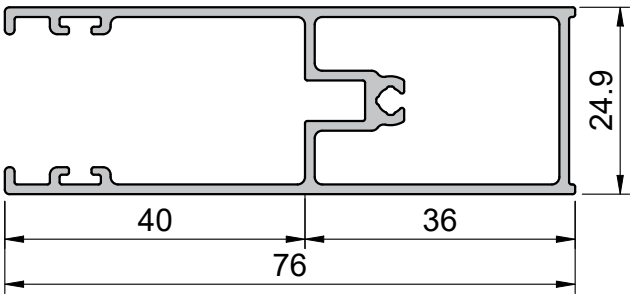


FZ-0107	Tampa Interna Caixa Integrada
	0,885 Kg/m

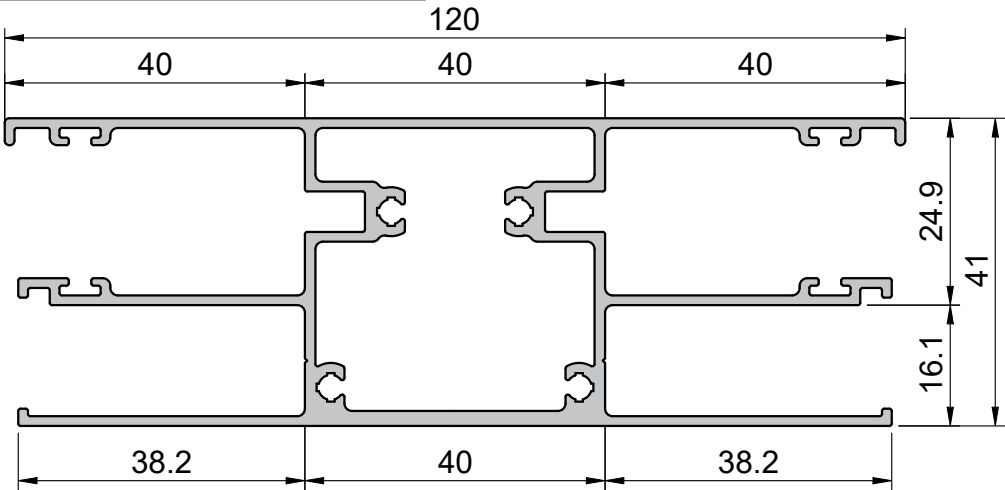
FZ-0114	Tampa Interna Caixa Integrada
	0,706 Kg/m



FZ-0200	Guia da Esteira
	0,852 Kg/m

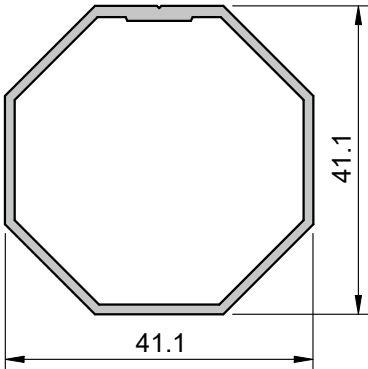
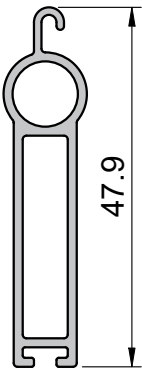


FZ-0218	Guia Central da Esteira
	1,865 Kg/m
Jx = 165.431 mm <sup>4</sup>   Wx = 7.915 mm <sup>3</sup>	

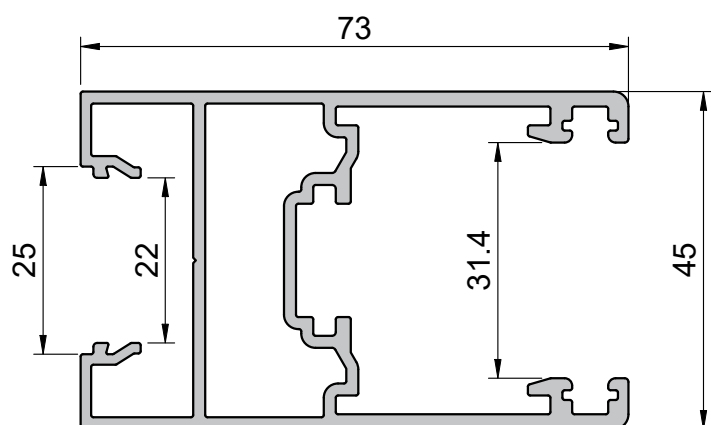
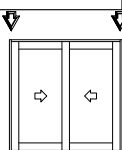


MN-055	Lamina Final
	0,371 Kg/m

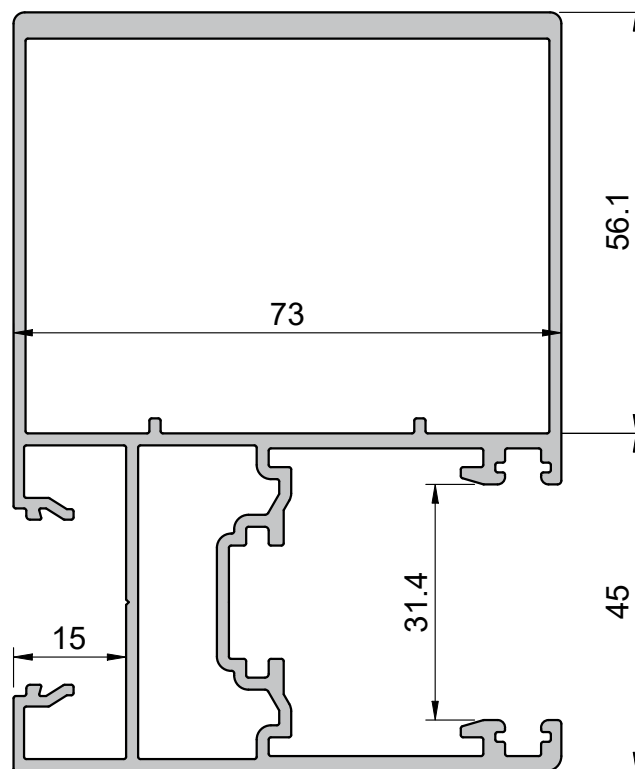
DS-238	Tubo Octogonal 40
	0,485 Kg/m



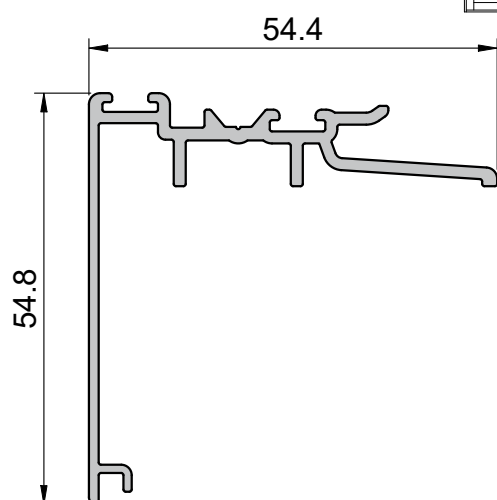
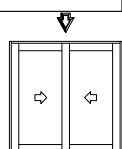
FZ-0219	Folha de correr
	1,470 Kg/m
Jx = 176.833 mm <sup>4</sup>   Wx = 7.859 mm <sup>3</sup>	



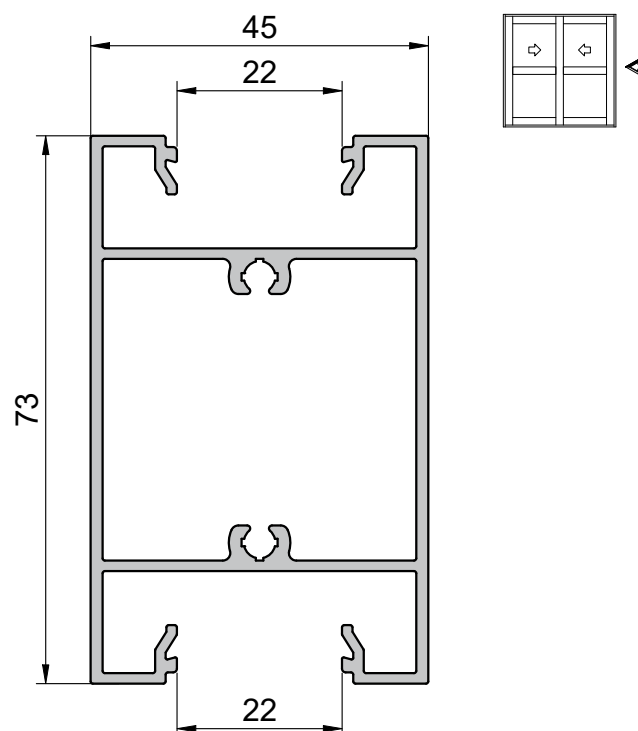
FZ-0220	Montante Folha com Reforço
	2,635 Kg/m
Jx = 1.321.091 mm <sup>4</sup>   Wx = 25.787 mm <sup>3</sup>	



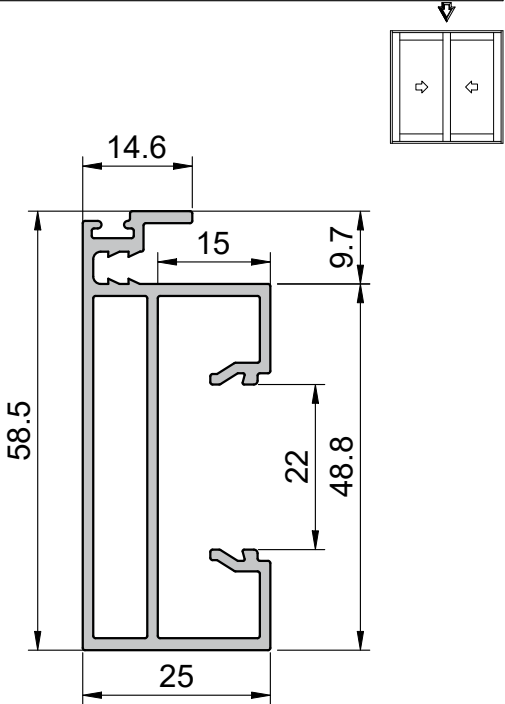
FZ-0223	Mão de amigo
	0,614Kg/m
Jx = 49.886 mm <sup>4</sup>   Wx = 1.234 mm <sup>3</sup>	



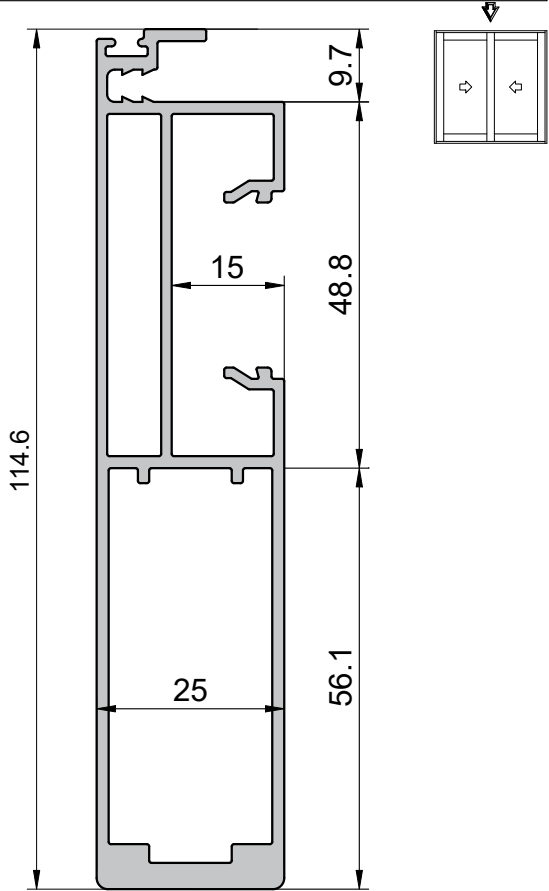
FZ-0224	Travessa intermediária
	1,327 Kg/m
Jy = 148.525 mm <sup>4</sup>   Wy = 6.601 mm <sup>3</sup>	



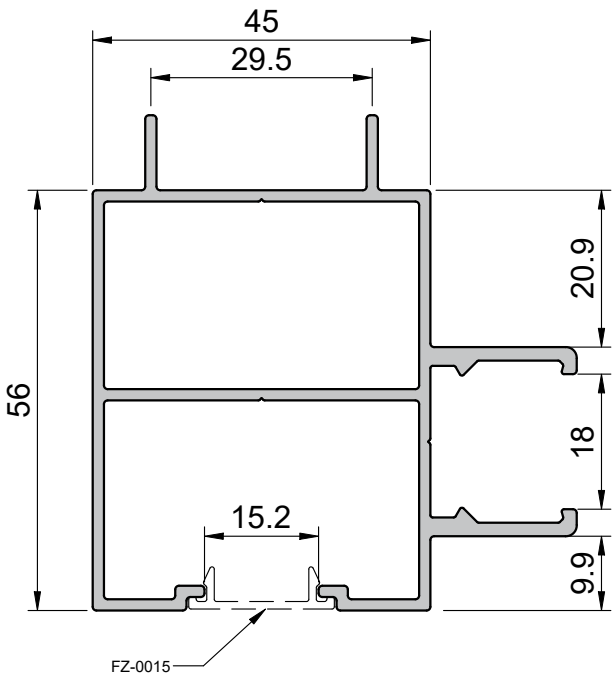
FZ-0221	Montante Mão de Amigo
	0,828 Kg/m
Jx = 115.228 mm <sup>4</sup>   Wx = 3.878 mm <sup>3</sup>	



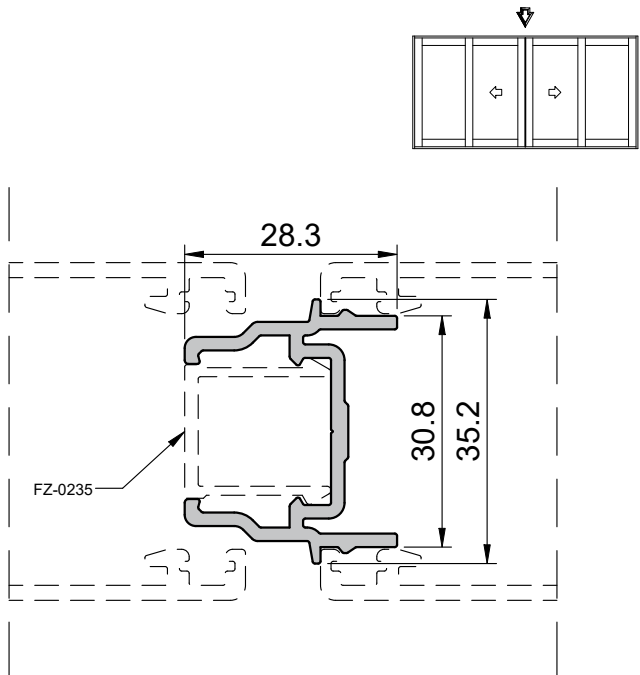
FZ-0222	Montante Mão de Amigo Reforçado
	1,609 Kg/m
Jx = 845.767 mm <sup>4</sup>   Wx = 13.775 mm <sup>3</sup>	



FZ-0240	Montante de Canto 90°
	1,240 Kg/m

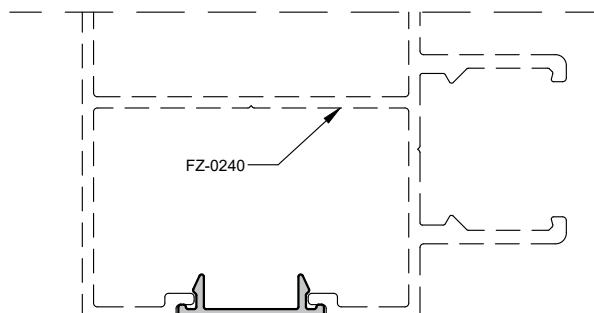


FZ-0284	Mata Junta Central
	0,513 Kg/m

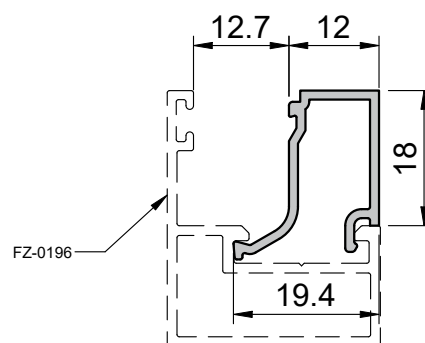




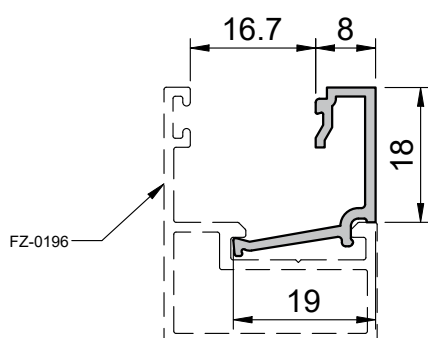
FZ-0015	Tampa para perfis
	0,081 Kg/m



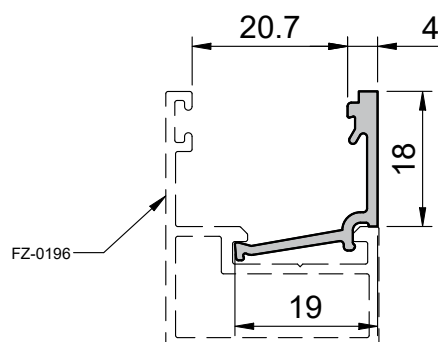
FZ-0034	Baguete
	0,204 Kg/m



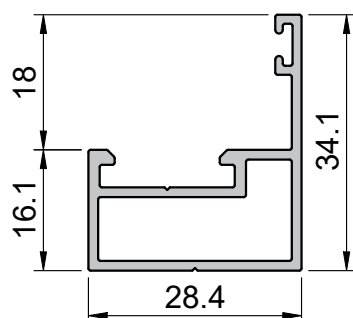
FZ-0035	Baguete
	0,191 Kg/m



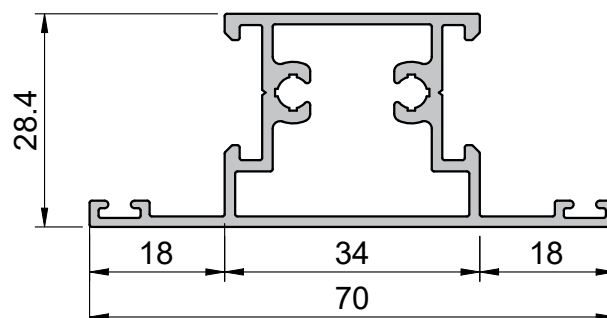
FZ-0036	Baguete
	0,177 Kg/m



FZ-0196	Folha
	0,420 Kg/m



FZ-0203	Coluna
	0,831 Kg/m

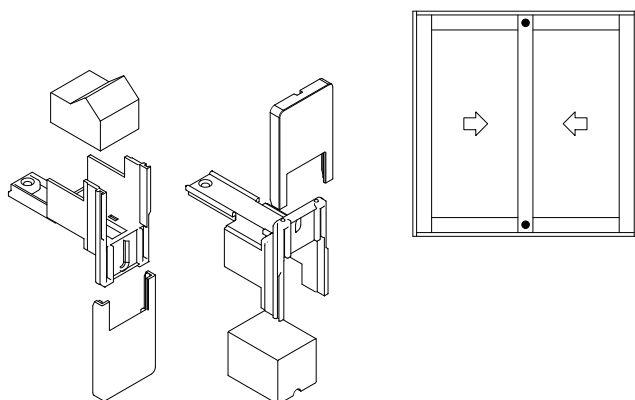


# 4

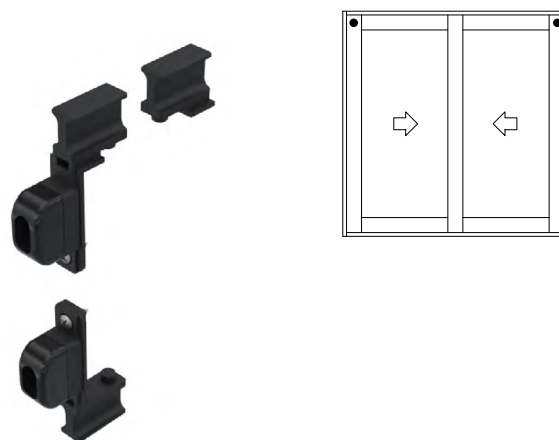
## Componentes

IMAGENS / DESCRIÇÕES

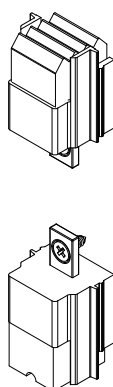
CVD-0011	Kit de Guias e Vedação M.A. 90°
	Polimero Cor: Preto / Branco



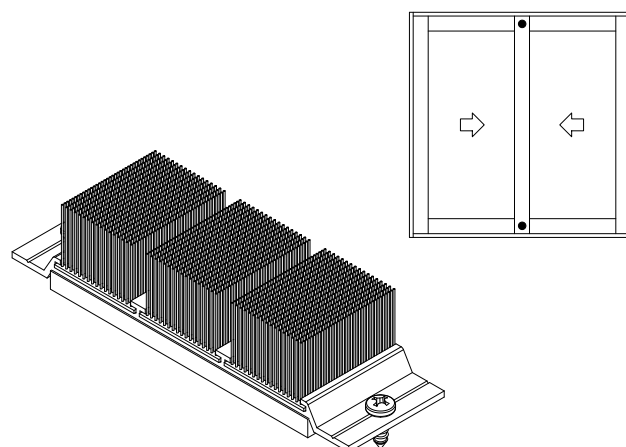
CVD-0010	Kit Anti Elevação Folha 45°
	Polimero Cor: Preto / Branco



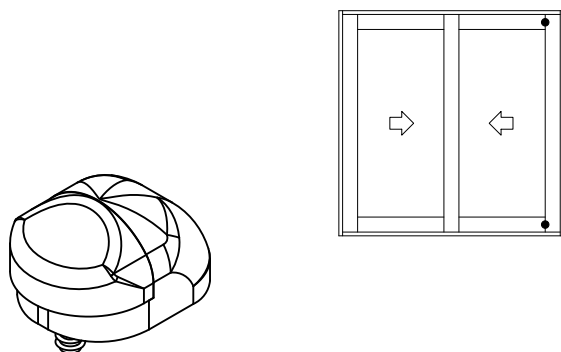
CVD-0012	Kit Vedação da Mata Junta Central
	Polimero Cor: Preto / Branco



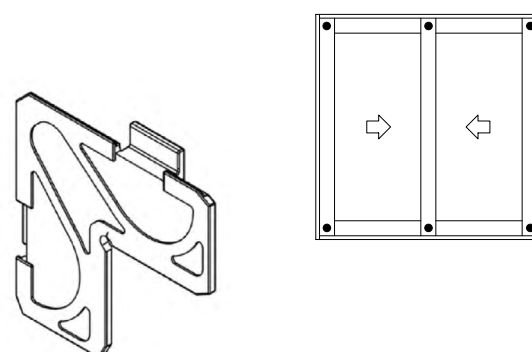
CVD-0013	Kit Ved. e Acabamento Slide / Lift
	Polimero Cor: Preto / Branco



BTE-0005	Batedeira Da Folha (Mini)
	Polimero Cor: Preto / Branco

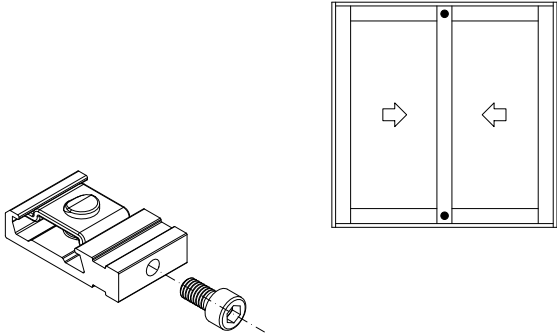


CON-0004	Conexão de Alinhamento
	Polimero Cor: Preto



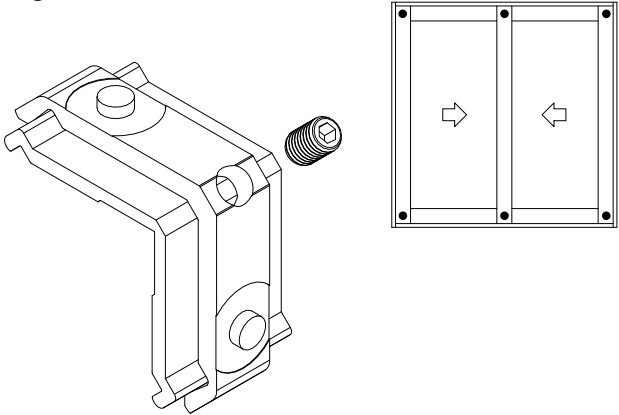
MCX-0014	Macho de Conexão

\*Usinagem consultar ficha técnica do Fornecedor

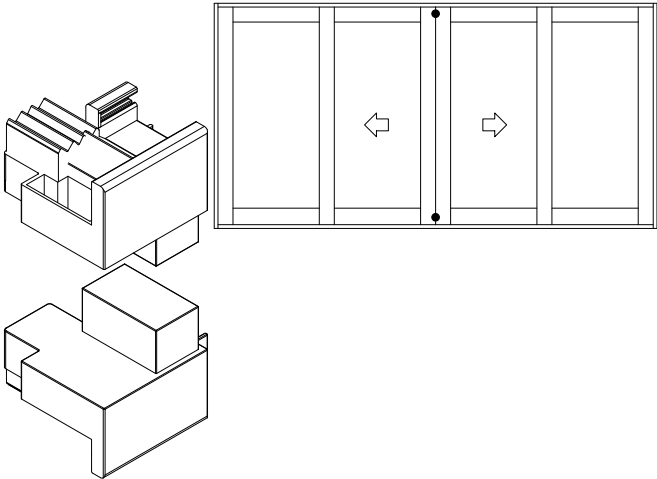


MCX-0015	Macho de Conexão 10,5x41

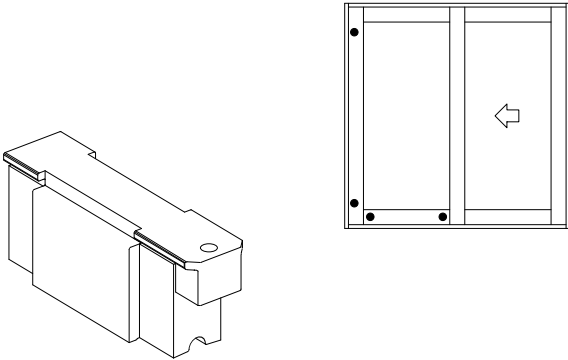
\*Usinagem consultar ficha técnica do Fornecedor



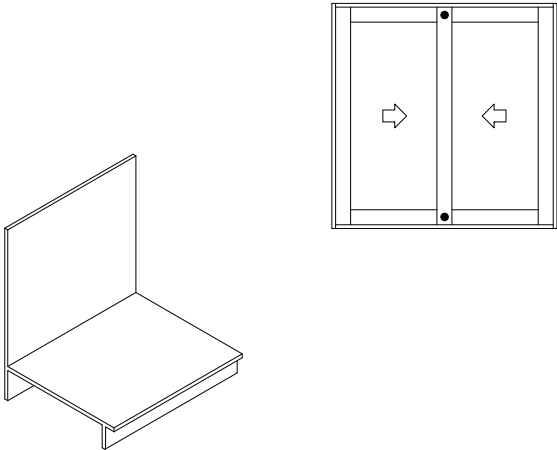
CVD-0014	Vedação de Canto 90° Polimero Cor: Preto / Branco



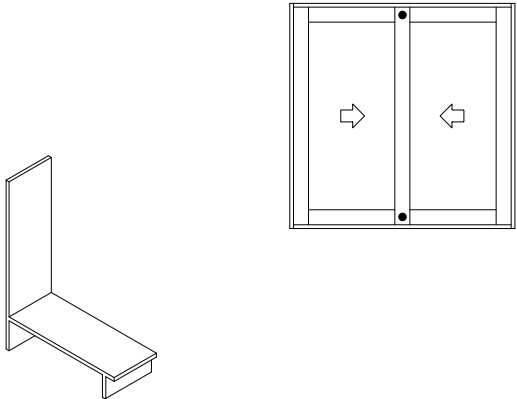
CAL-0003	Calço da Folha Fixa Polimero Cor: Preto



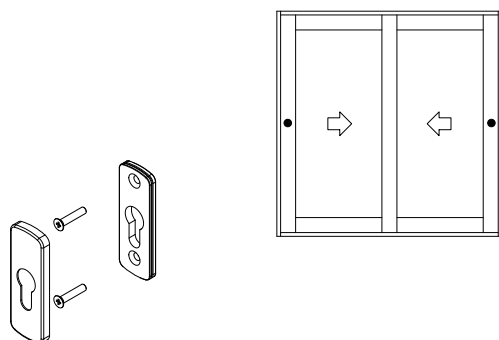
TMT-0065	Tampa do Montante em Alumínio Aplicação Perfil FZ-0220



TMT-0031	Tampa do Montante em Alumínio Aplicação Perfil FZ-0222

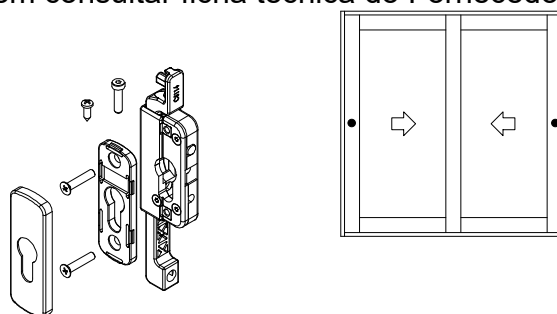


EPL-0002	Roseta Cilindro
	Aplicável MPC-3409 e CLD-0004



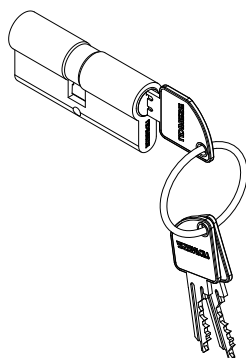
MPC-3409	Kit Fechadura
	Aplicável MPC-3410 e CLD-0005

\*Usinagem consultar ficha técnica do Fornecedor



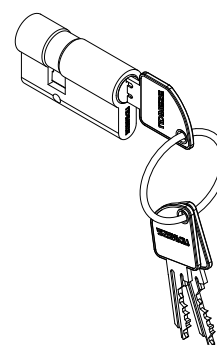
CLD-0006	Cilindro Interno/Externo
	Aplicável MPC-3409

\*Usinagem consultar ficha técnica do Fornecedor



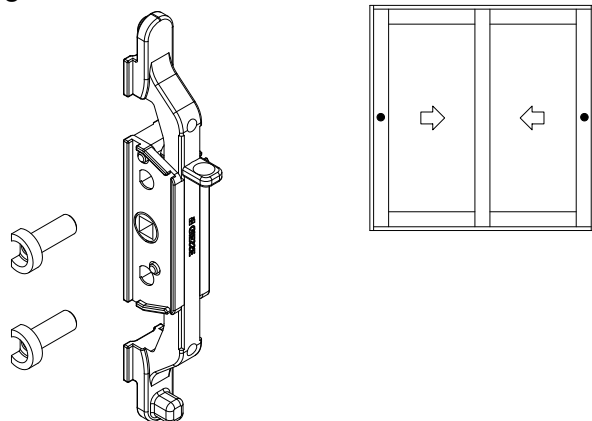
CLD-0005	Cilindro Interno
	Aplicável MPC-3409

\*Usinagem consultar ficha técnica do Fornecedor

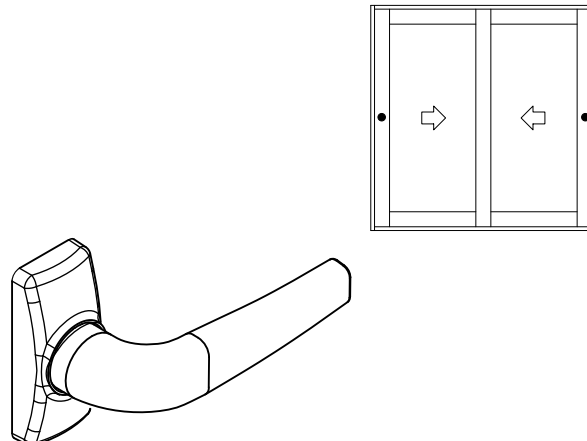


MPC-3410	Kit Mov. Sem Falsa Manobra

\*Usinagem consultar ficha técnica do Fornecedor

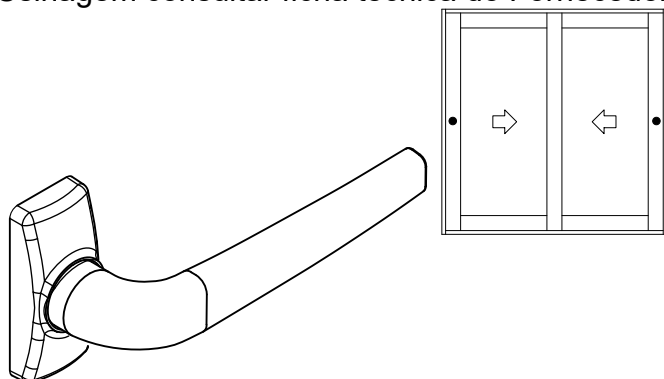


CMN-3405	Cremona Simples Janela 180°



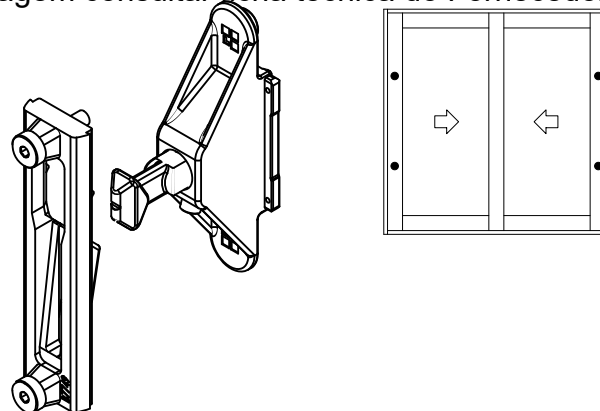
CMN-3406	Cremona simples Porta 180°

\*Usinagem consultar ficha técnica do Fornecedor

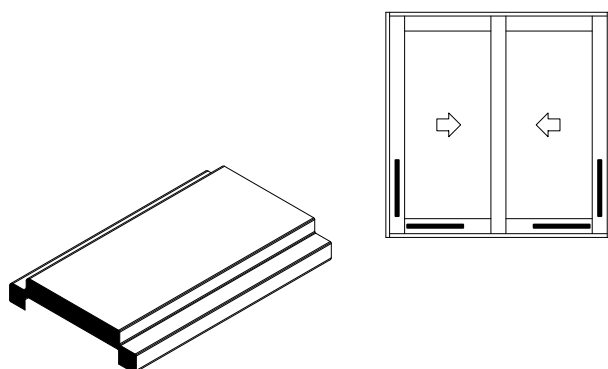


MPC-3411	Ponto de Fecho

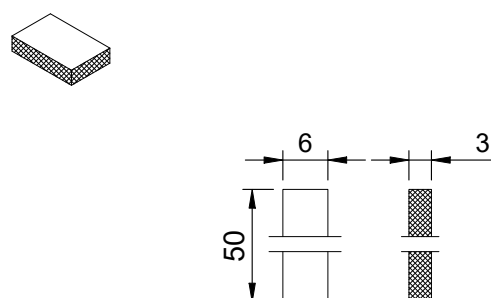
\*Usinagem consultar ficha técnica do Fornecedor



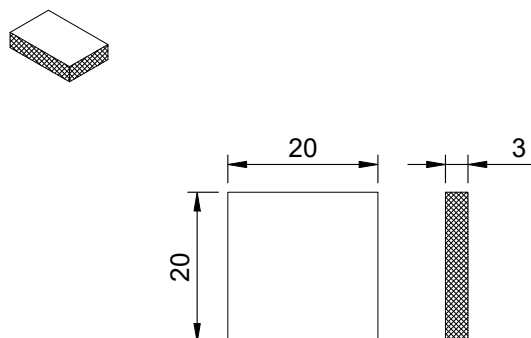
TRL-0002	Haste de Poliamida



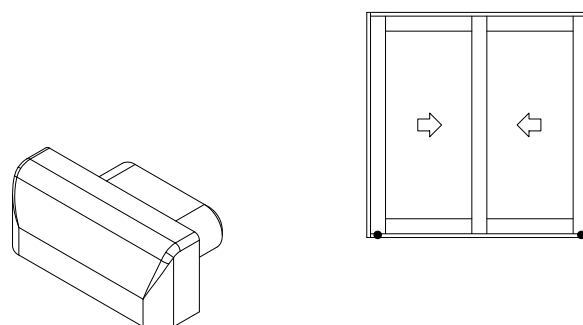
CAL-0603	Espuma EPDM (6X3X50) Calço Para Vidro Fixo



CAL-2003	Espuma EPDM (20X3X20) Calço Para Vidro Fixo

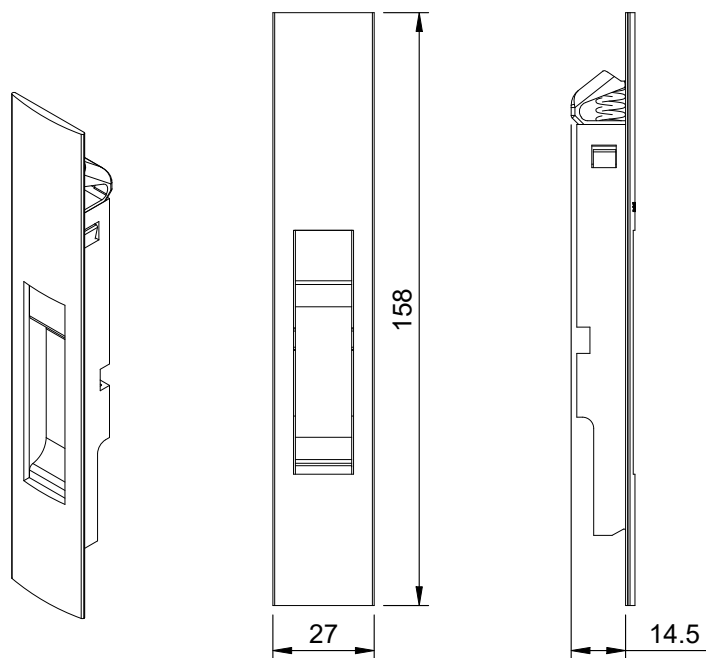


DRN-22002	Dreno Flap Saída d'Água Polimero Cor: Preto / Branco

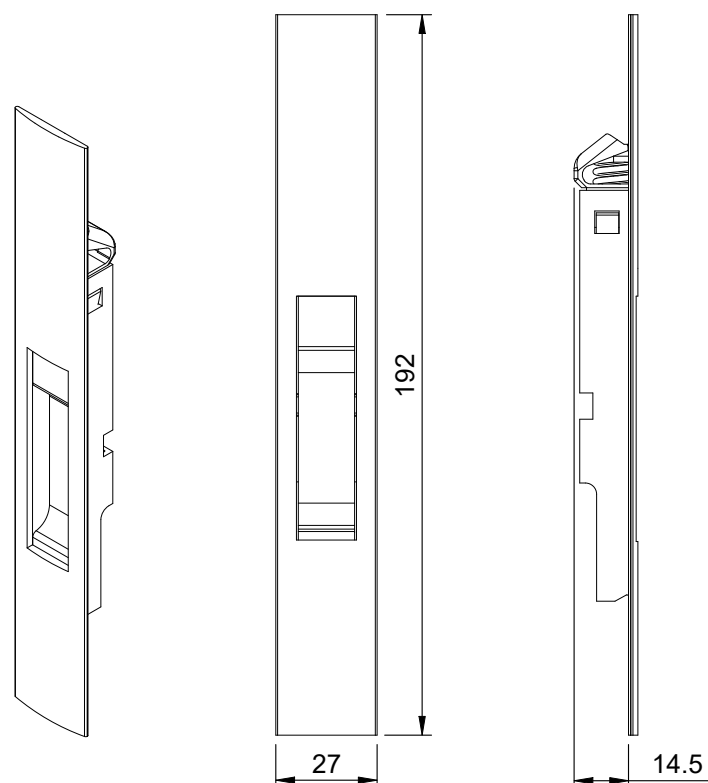




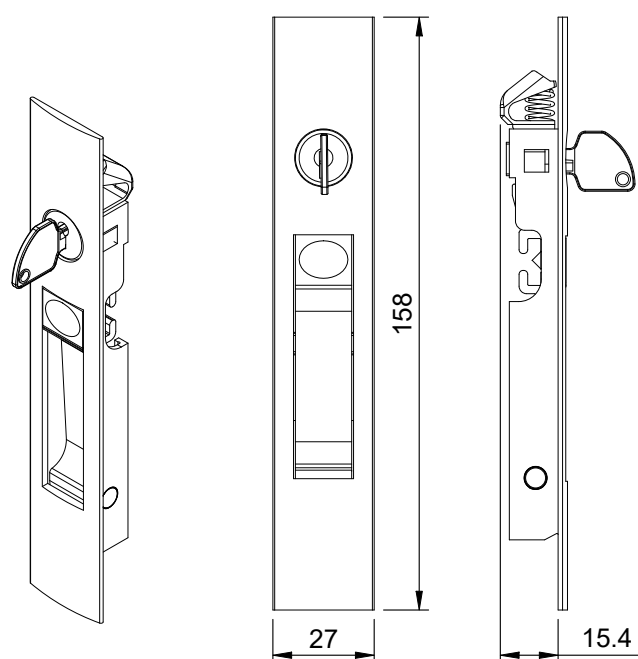
CHC-0003	Concha Cega Janela
	Aluminio / Polimero



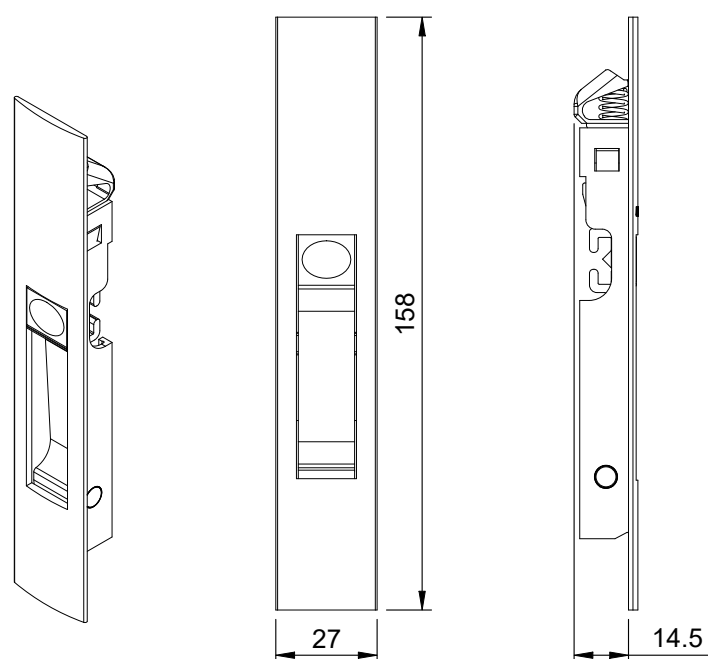
CHC-0004	Concha Cega Porta
	Aluminio / Polimero



FCH-0005	Fecho Janela com Chave
	Aluminio / Polimero

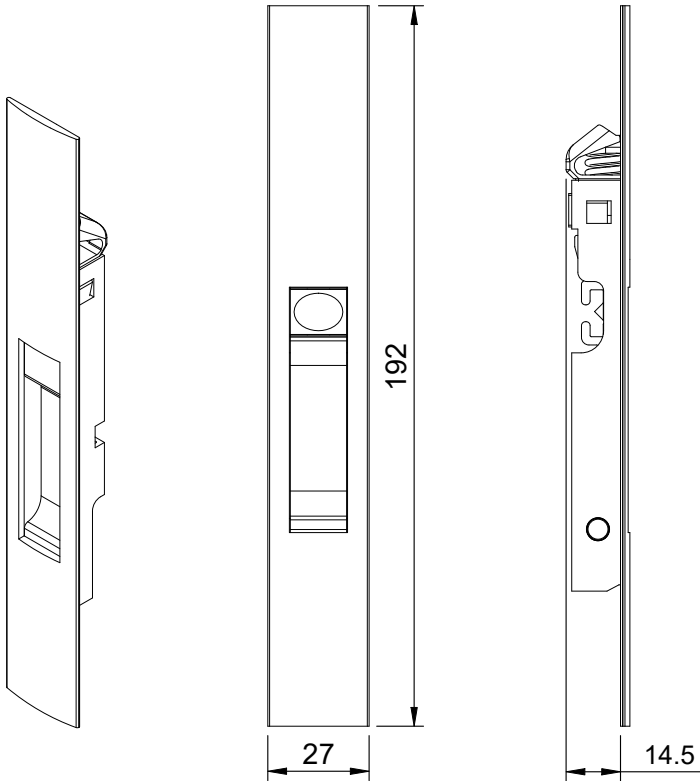
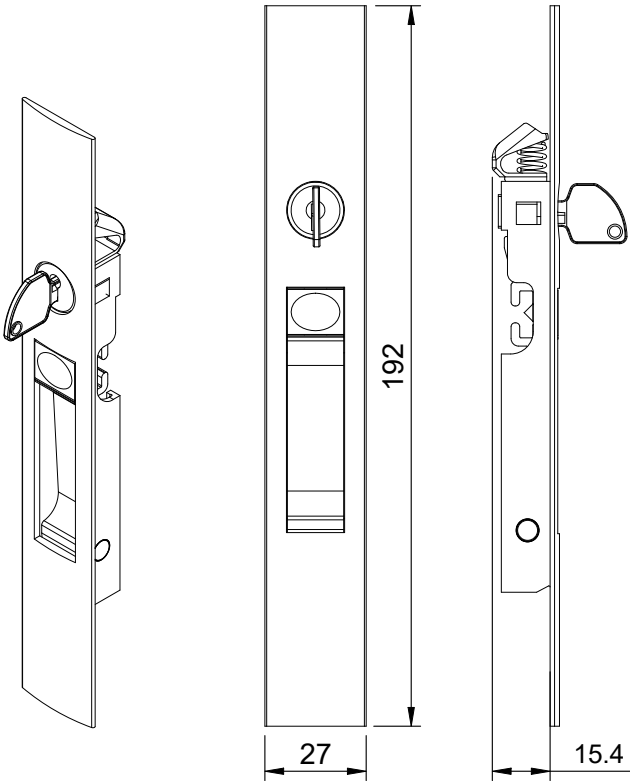


FCH-0006	Fecho Janela sem Chave
	Aluminio / Polimero

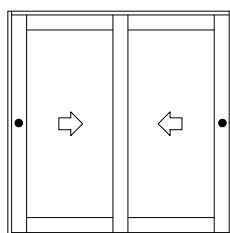
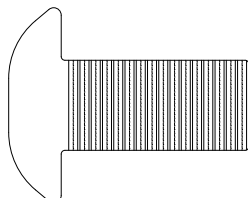


FCH-0026	Fecho Porta com Chave
	Aluminio / Polimero

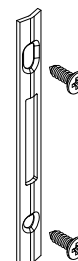
FCH-0027	Fecho Porta sem Chave
	Aluminio / Polimero



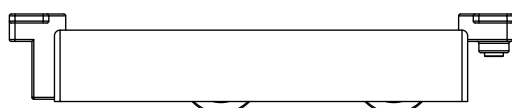
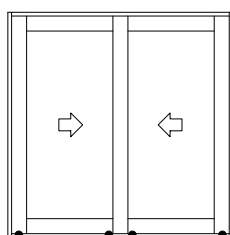
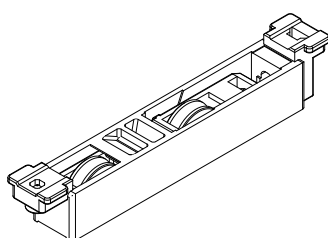
TRV-0007	Lingueta da Concha Trad.



CTF-0001	Contra Fecho Lateral / Central
	Aço inox - Natural

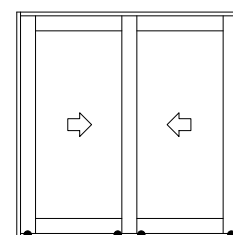
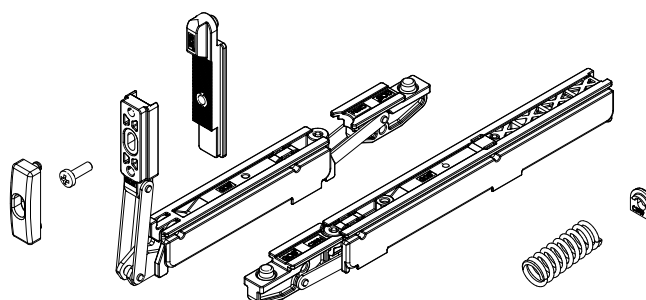


RLD-0024	Roldana Duplas - Slide
	Polimero : 300kg Por Folha (Máx)

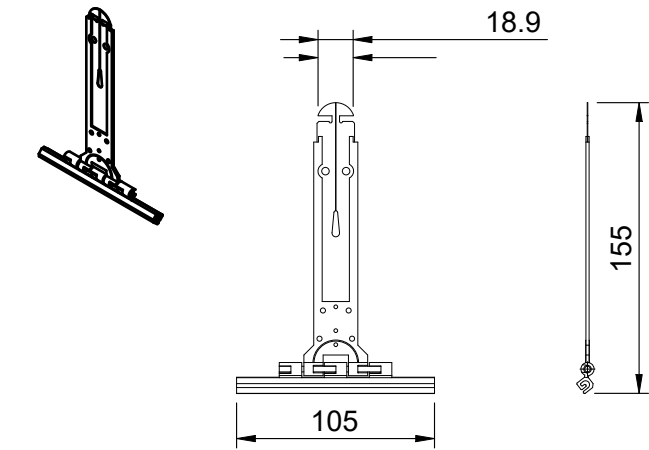


\*Usinagem consultar ficha técnica do Fornecedor

RLD-0025	Kit de Roldana Duplas - Lift
	Polimero : 200kg Por Folha (Máx)



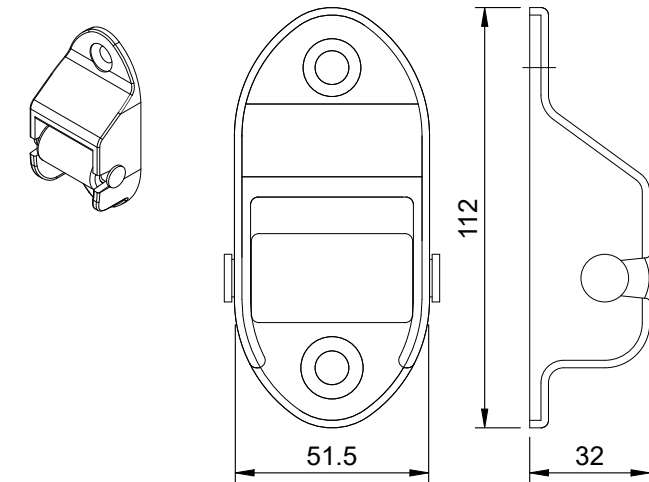
FPE-0001	Fixador da Esteira
	Aço Inox - Natural



MTA-0001	Manta Acústica
	Isolamento da Caixa da Persiana

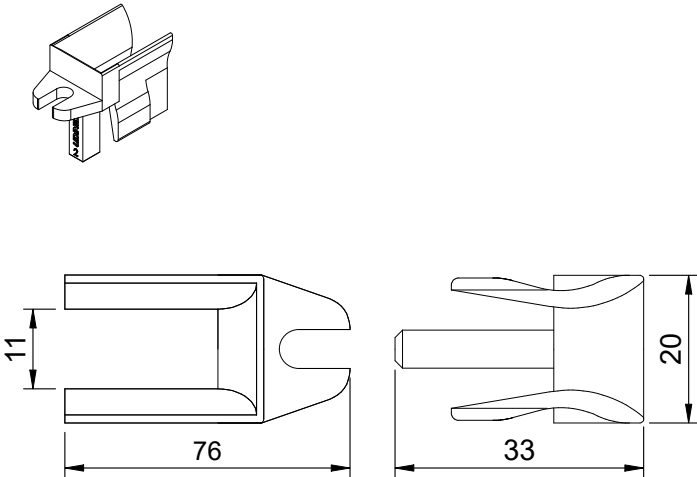


GCT-0005	Guia Frontal da Cinta Reta
	Polímero Cor: Preto / Branco



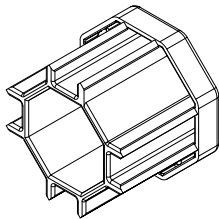
\*Usinagem consultar ficha técnica do Fornecedor

GPE-0005	Guia da Esteira
	Polímero Cor: Preto

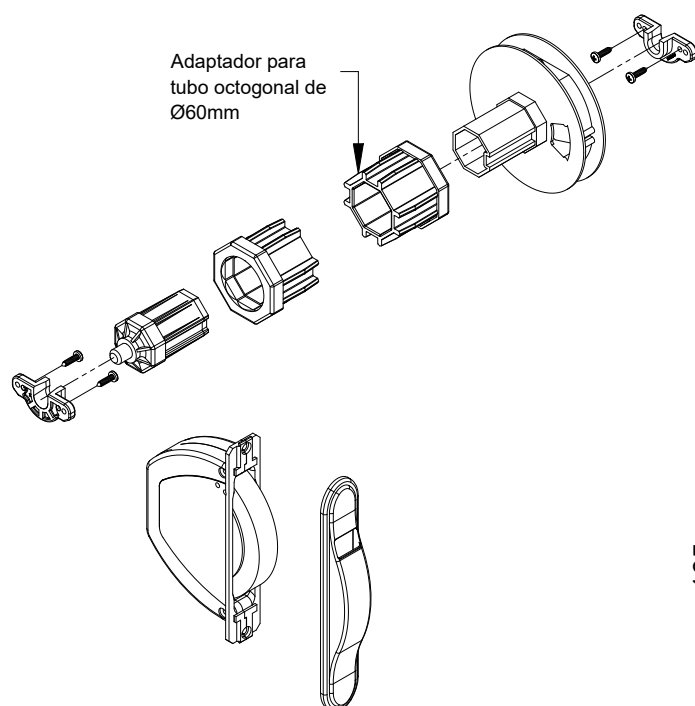
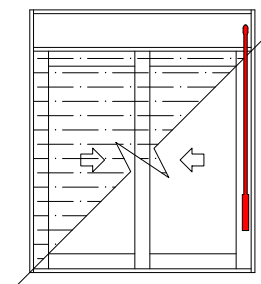


\*Usinagem consultar ficha técnica do Fornecedor

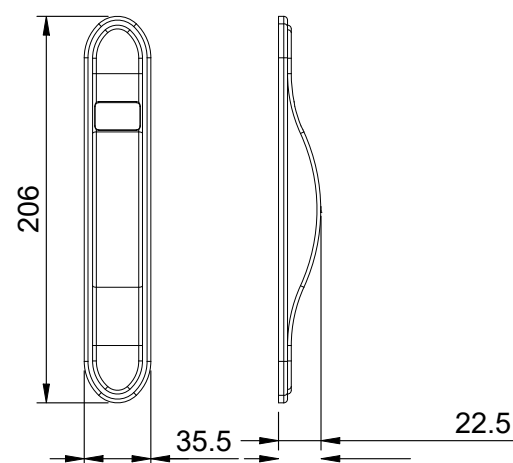
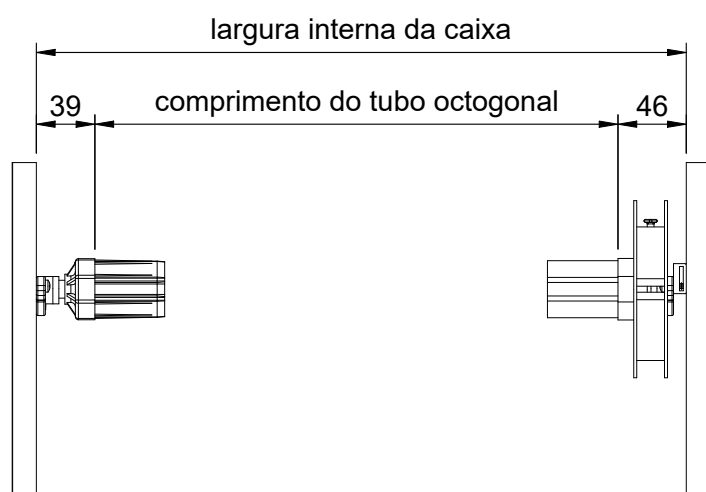
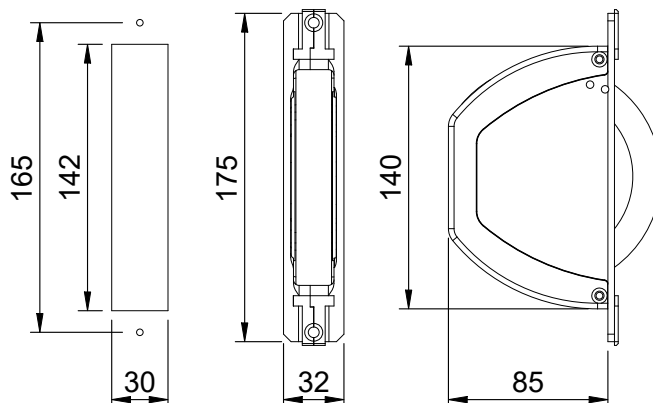
RCO-0003	Adaptador Para Tubo de 60
	Polímero Cor: Preto



RCO-0001	Recolhedor Manual Janela
	Cor: Preto / Branco

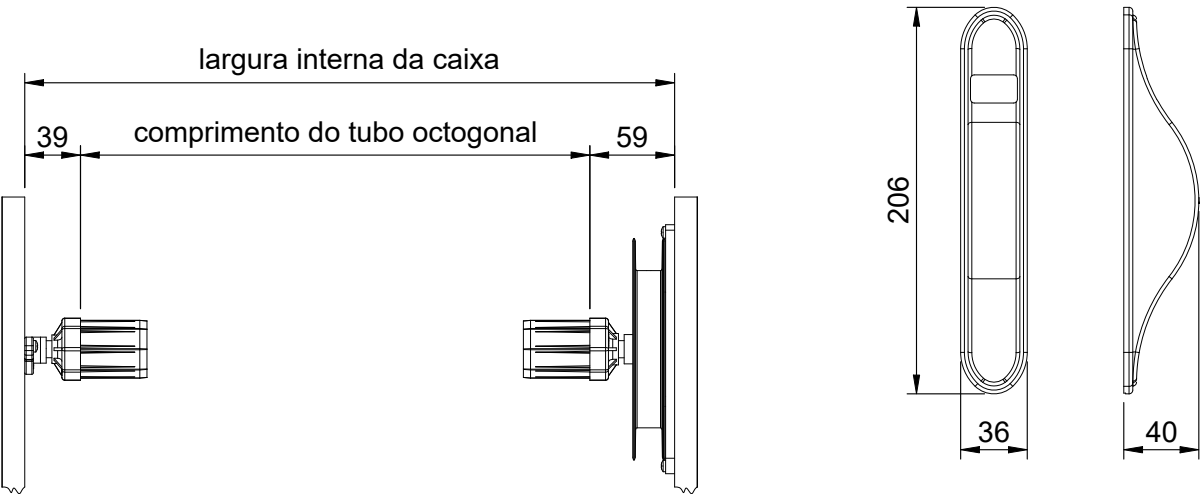
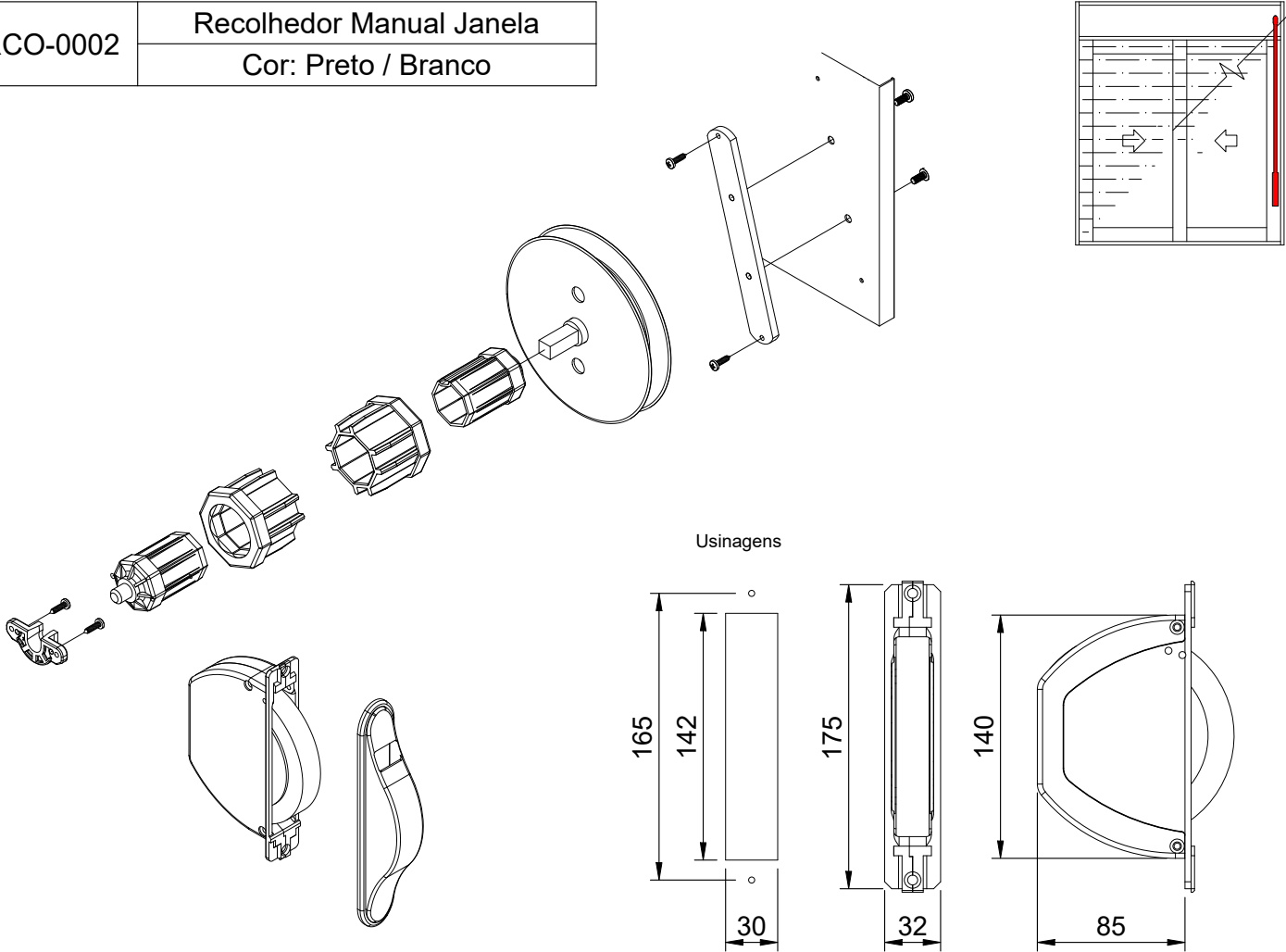


Usinagens



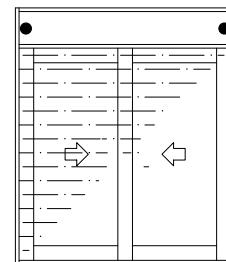
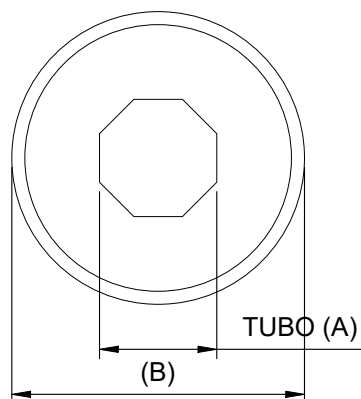
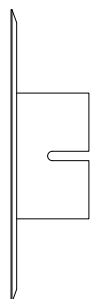
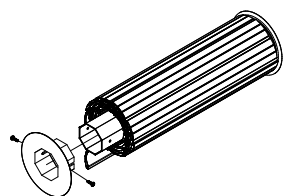
\*Usinagem consultar ficha técnica do Fornecedor

RCO-0002	Recolhedor Manual Janela
	Cor: Preto / Branco

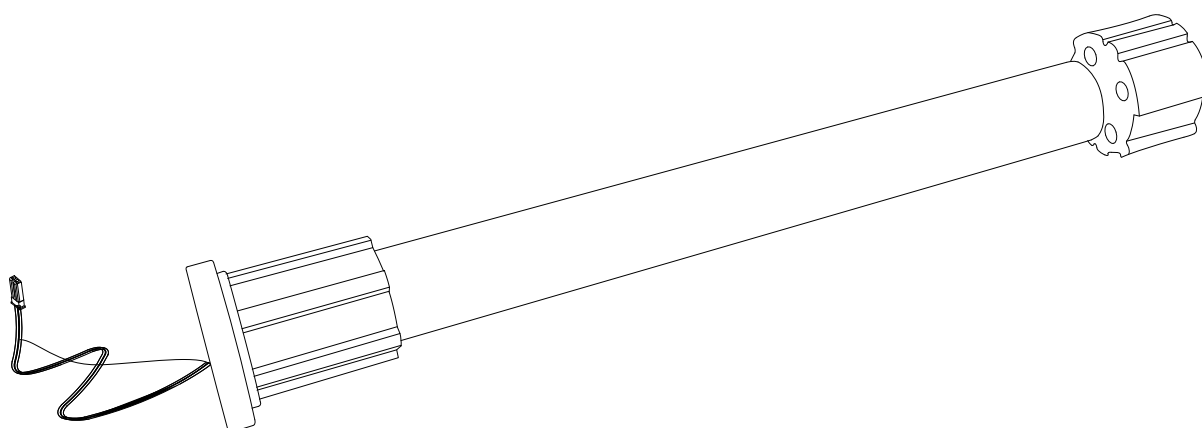


\*Usinagem consultar ficha técnica do Fornecedor

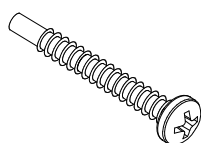
Disco Alinhador da Persiana	
Código	Tubo (A)
DAP-0040	DS-238 (40)
DAP-0060	MN-015 (60)



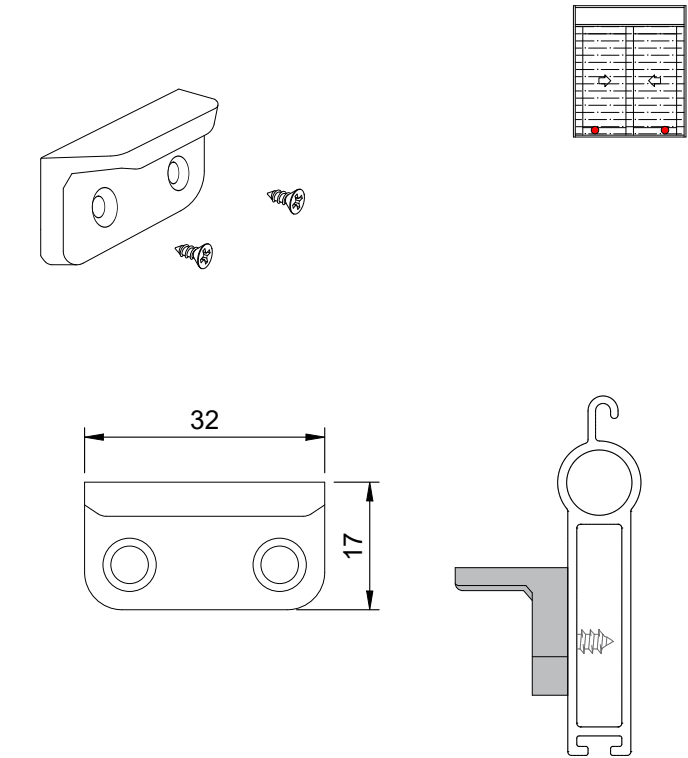
MPI-0001	Motor Persiana Integrada



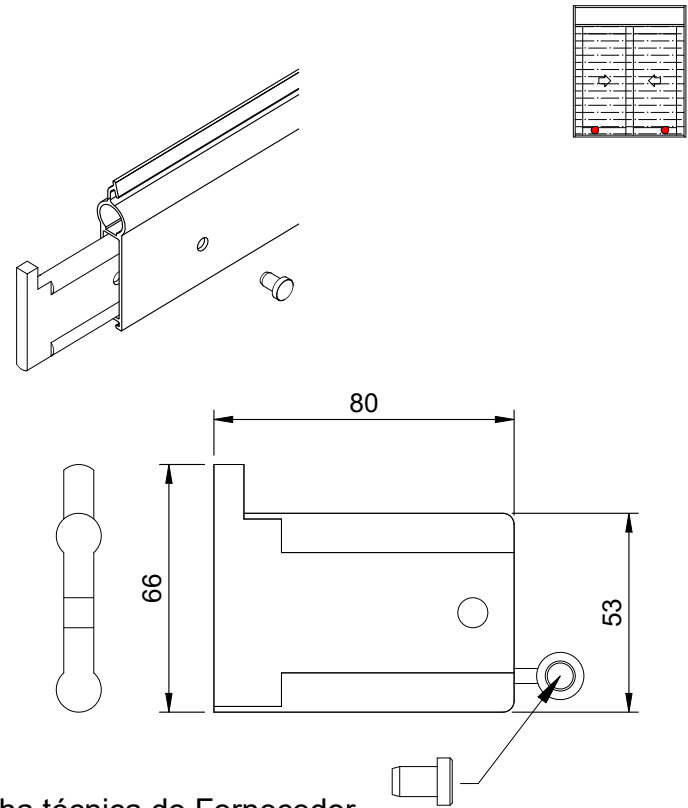
PCP-4832PL	Parf. Cab. Pan. 4,8x32 PL Aço Inox
	Fixa Marcos e Folhas



LPE-0001	Limitador da Esteira
	Polímero Cor: Preto / Branco



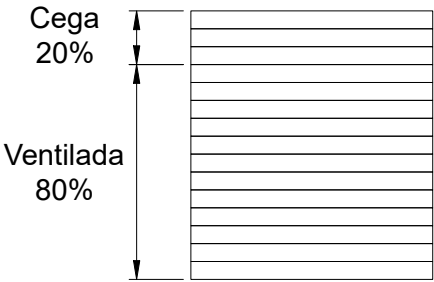
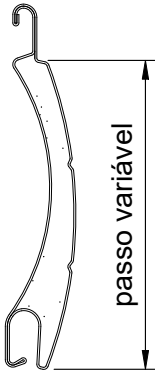
GPE-0002	Guia Limitador da Esteira
	Polimero Cor: Preto



\*Usinagem consultar ficha técnica do Fornecedor

PAC-0001	Palheta Cega

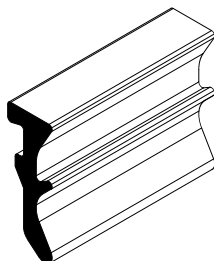
PAV-0001	Palheta Ventilada



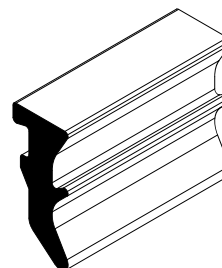
\*Largura máxima e peso consultar ficha técnica do Fornecedor



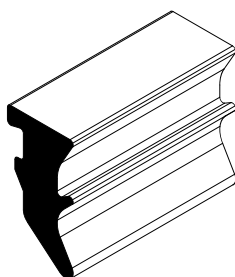
GXT-1171	Guarnição Cunha de EPDM 1mm



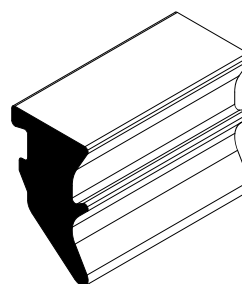
GXT-1172	Guarnição Cunha de EPDM 2mm



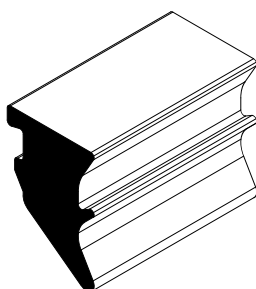
GXT-1173	Guarnição Cunha de EPDM 3mm



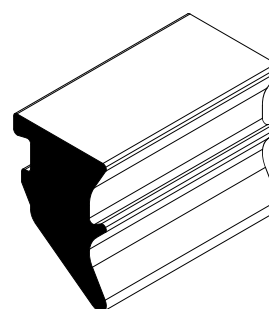
GXT-1174	Guarnição Cunha de EPDM 4mm



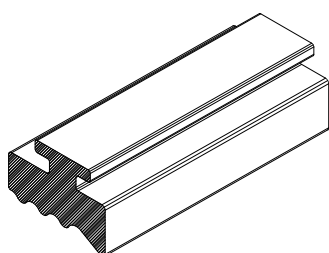
GXT-1175	Guarnição Cunha de EPDM 5mm



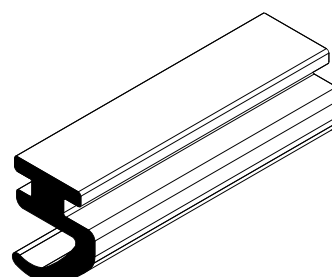
GXT-1176	Guarnição Cunha de EPDM 6mm



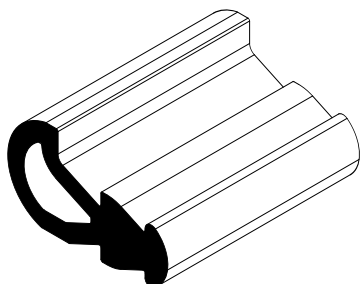
GXT-1165	Guarnição Ext. de EPDM 3,5mm



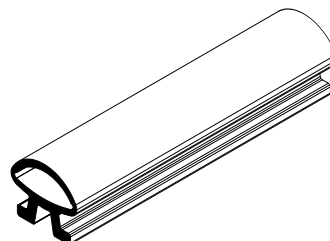
GXT-1166	Guarnição Encontro 90° de EPDM



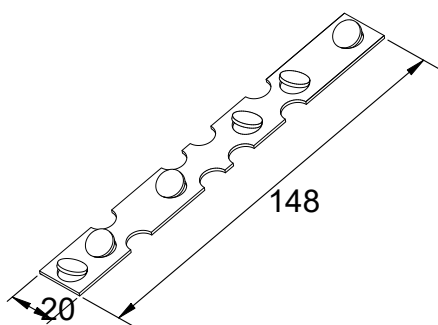
GXT-1168	Guarnição Central de EPDM



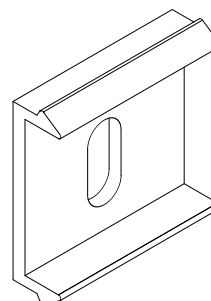
GXT-1167	Guarnição Perimetral de EPDM



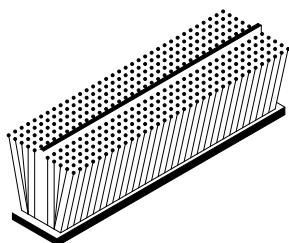
CBD-0001	Chumbador de Aço Zincado
	CM-060/ CM-063/ CM-174



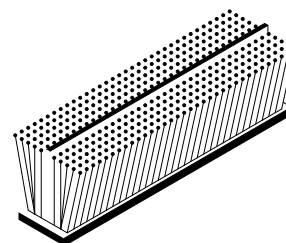
PRE-0003	Presilha de Arremate
	Aluminio



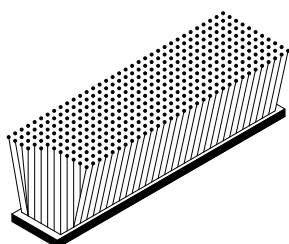
ECV-0708	Escova Ved. 7x8mm
	Cor: Preto / Branco / Cinza



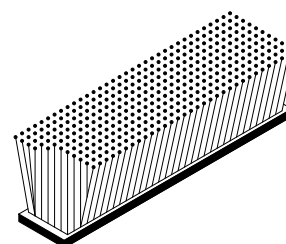
ECV-0708B	Escova Ved. 7x8mm com Barreira
	Cor: Preto / Branco / Cinza



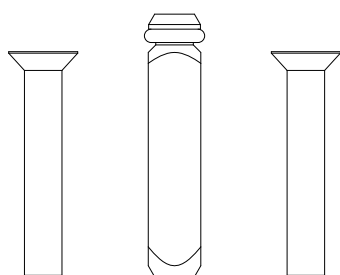
ECV-0510	Escova de Vedação 5x10mm
	Cor: Preto / Branco / Cinza



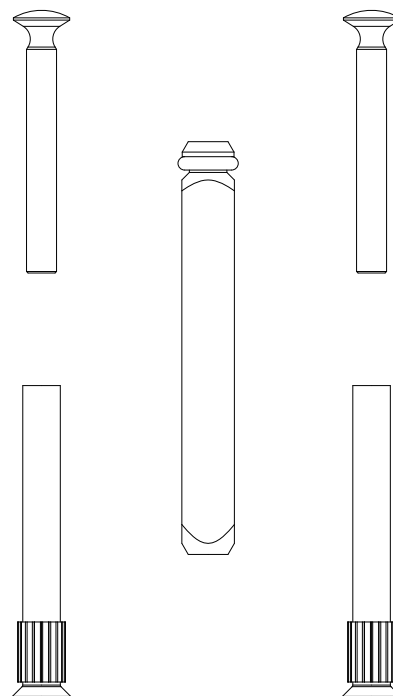
ECV-0508	Escova de Vedação 5x8mm
	Cor: Preto / Branco / Cinza



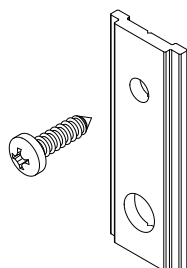
HST-0004	Haste Para Cremona Interna
	Conforme Fornecedor



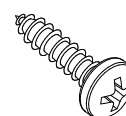
HST-0005	Haste Para Crem. Interna/Externa
	Conforme Fornecedor



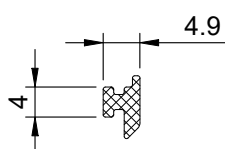
TFF-0007	Trava Folha Fixa
	Polimero Preto

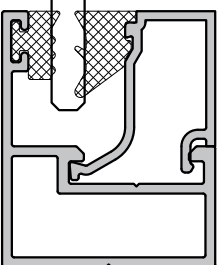


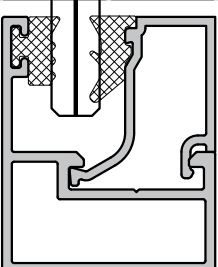


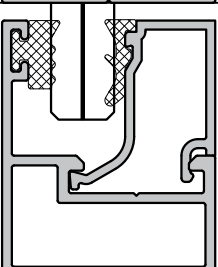


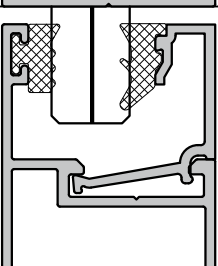


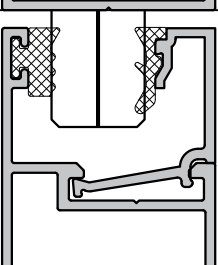


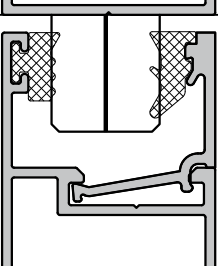




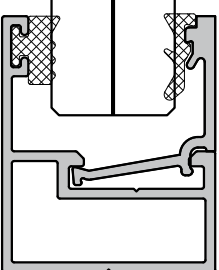

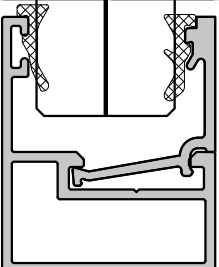

PCP-4213	Parf. Cab. Pan. 4,2x13
	Aço Inox

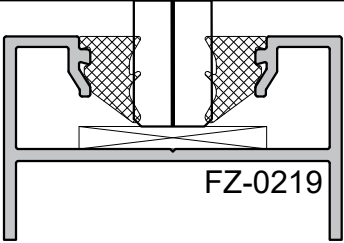


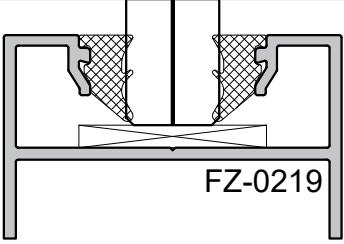


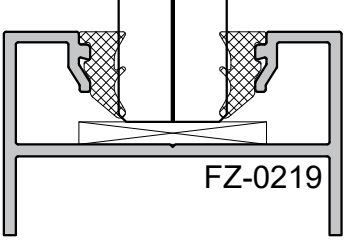


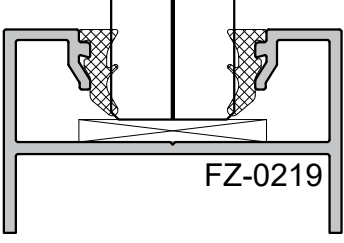


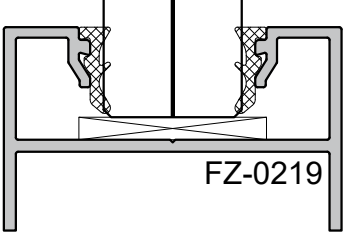




GXT-1102	Guarnição EPDM telescopia
	Cor: Preto / Branco / Cinza



GAXETAS PARA VIDRO - APLICAÇÃO			
PERFIL	ESPESSURA DO VIDRO	GUARNIÇÃO EXTERNA	GUARNIÇÃO INTERNA
 FZ-0034	4mm	GXT-1165 	GXT-1176 
 FZ-0034	6mm	GXT-1165 	GXT-1174 
 FZ-0034	8mm	GXT-1165 	GXT-1172 
 FZ-0035	10mm	GXT-1165 	GXT-1174 
 FZ-0035	12mm	GXT-1165 	GXT-1172 
 FZ-0036	14mm	GXT-1165 	GXT-1174 

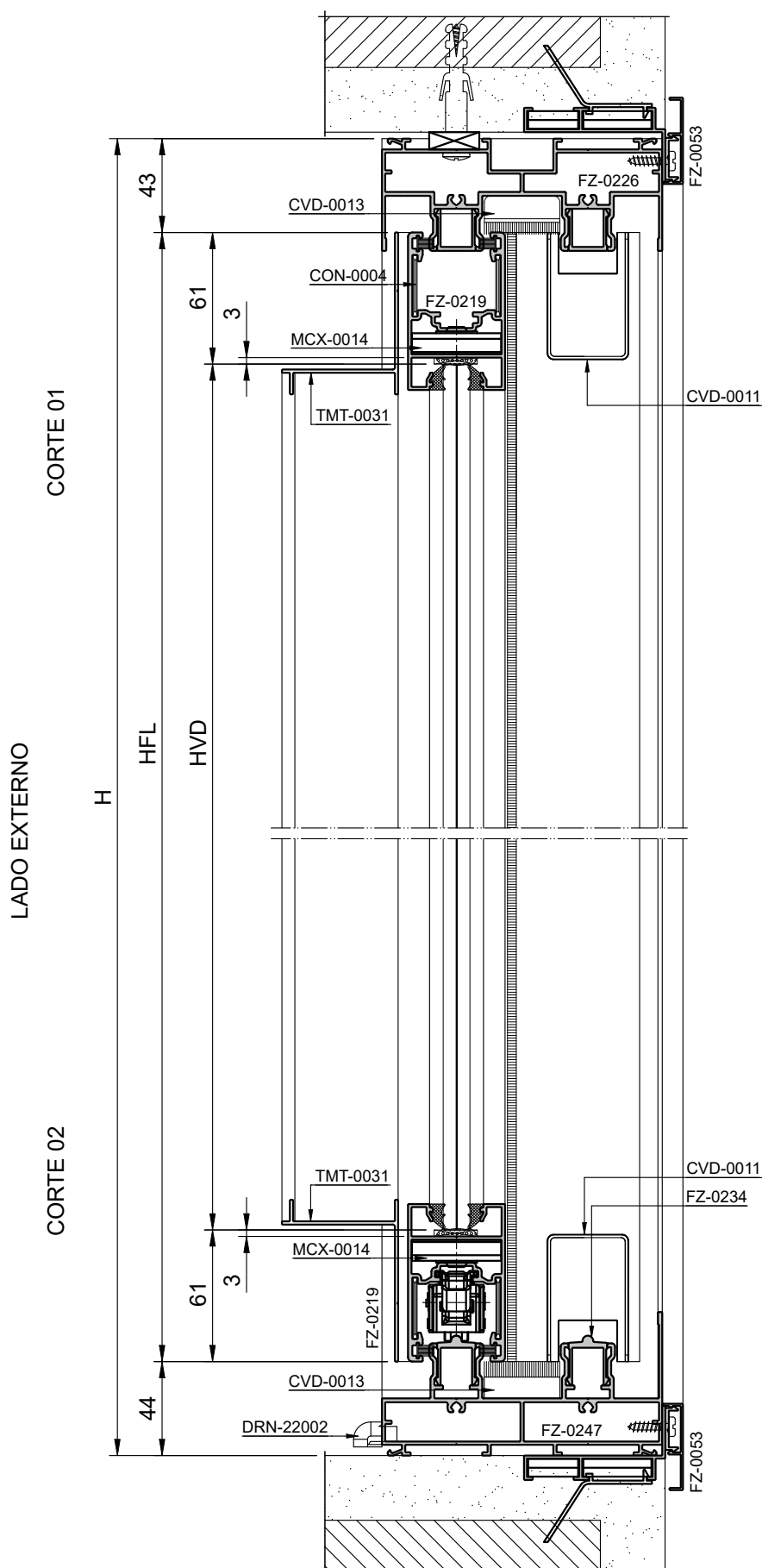
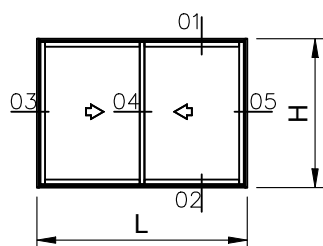
GAXETAS PARA VIDRO - APLICAÇÃO			
PERFIL	ESPESSURA DO VIDRO	GUARNIÇÃO EXTERNA	GUARNIÇÃO INTERNA
 FZ-0036	16mm	GXT-1165 	GXT-1172 
 FZ-0036	18mm	GXT-1171 	GXT-1172 

GAXETAS PARA VIDRO - APLICAÇÃO			
PERFIL	ESPESSURA DO VIDRO	GUARNIÇÃO EXTERNA	GUARNIÇÃO INTERNA
 FZ-0219	10mm	GXT-1176 	GXT-1176 
 FZ-0219	12mm	GXT-1175 	GXT-1175 
 FZ-0219	14mm	GXT-1174 	GXT-1174 
 FZ-0219	16mm	GXT-1173 	GXT-1173 
 FZ-0219	18mm	GXT-1172 	GXT-1172 

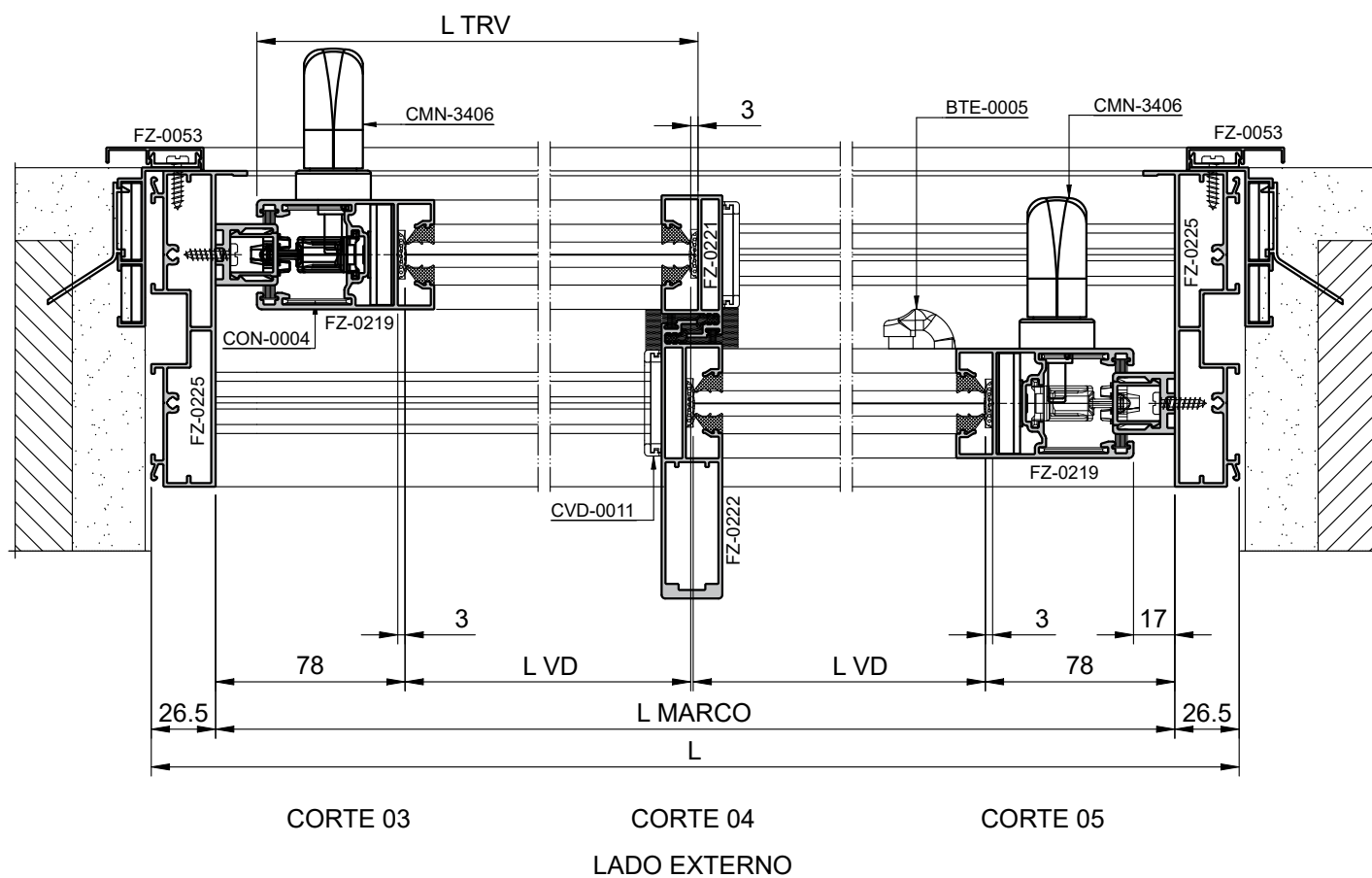
# Montagens

5

# JANELA DE CORRER 2 FOLHAS

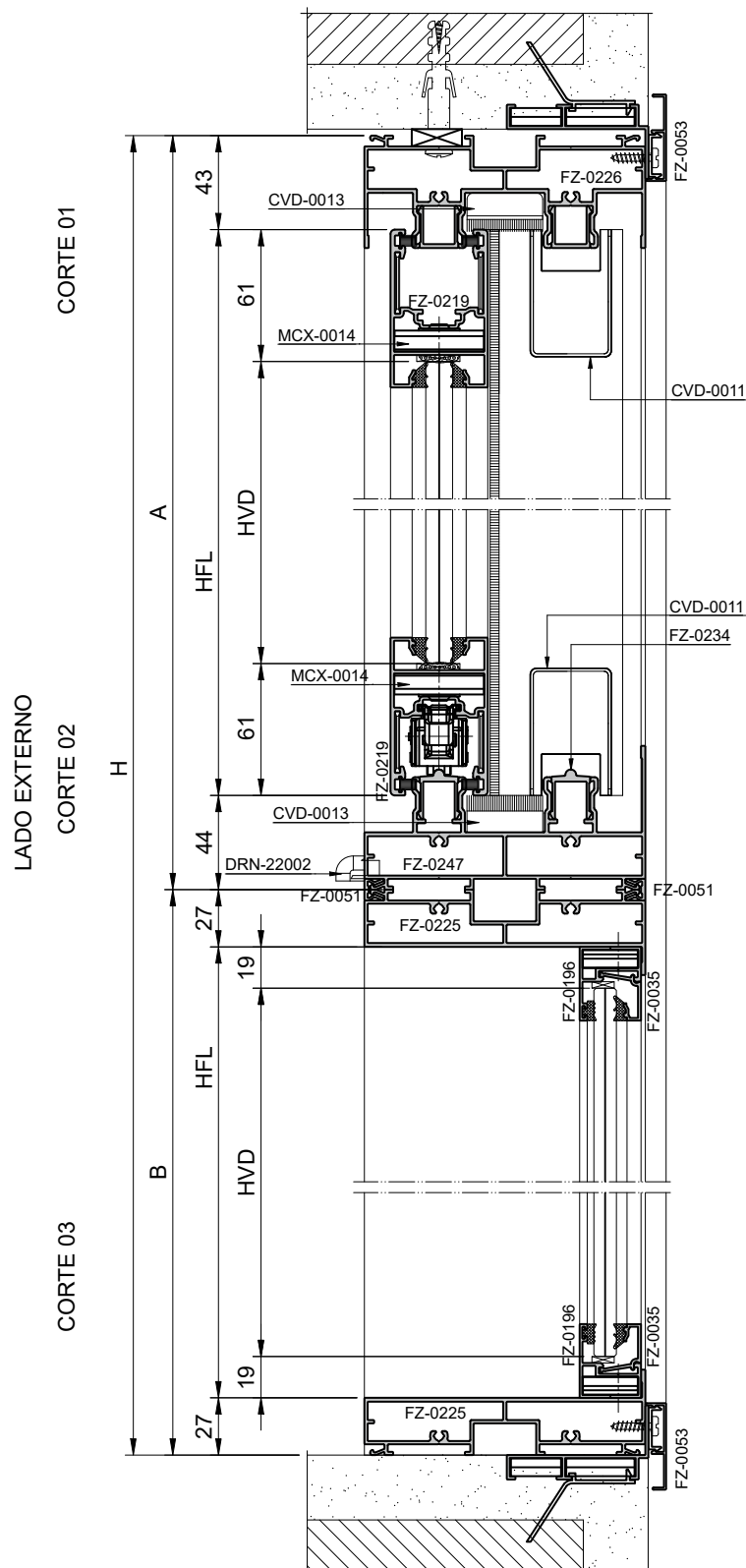
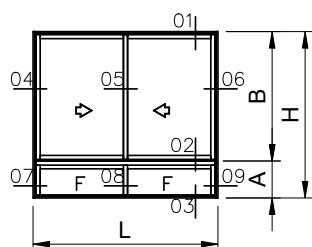


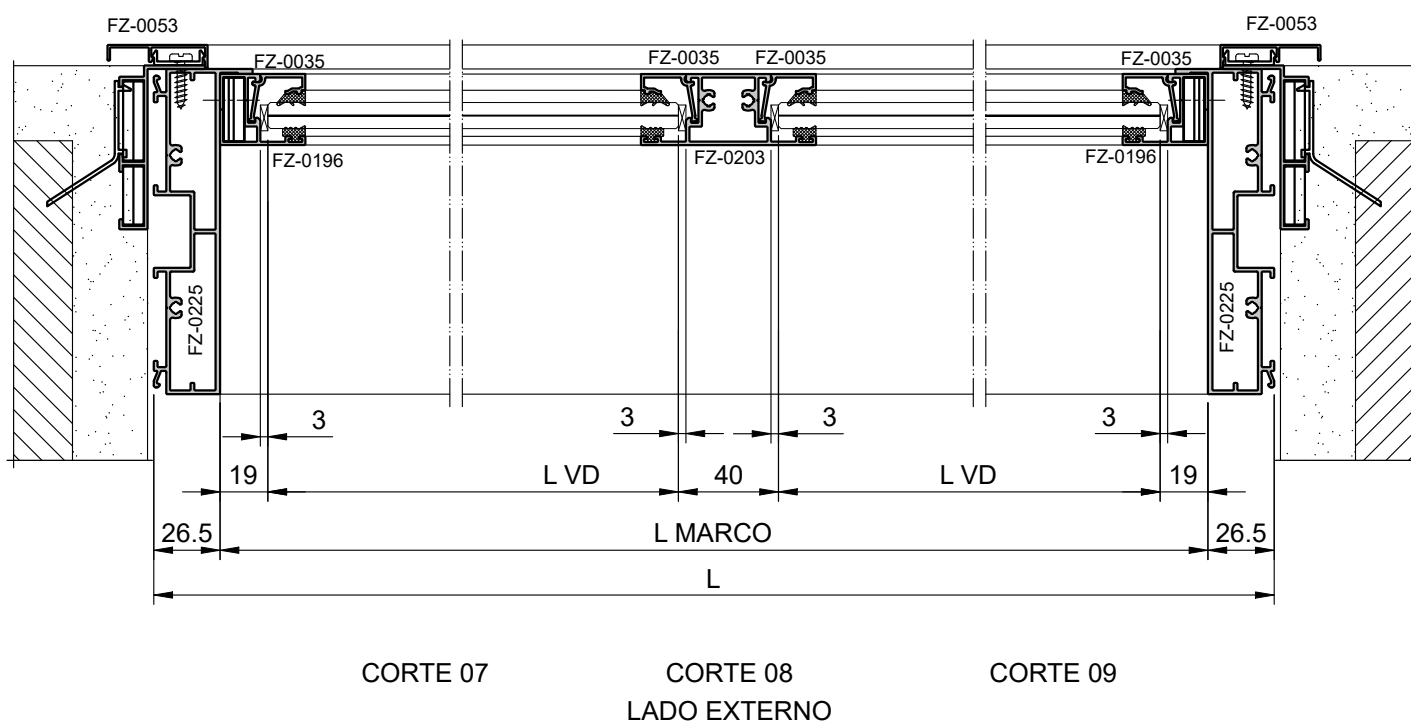
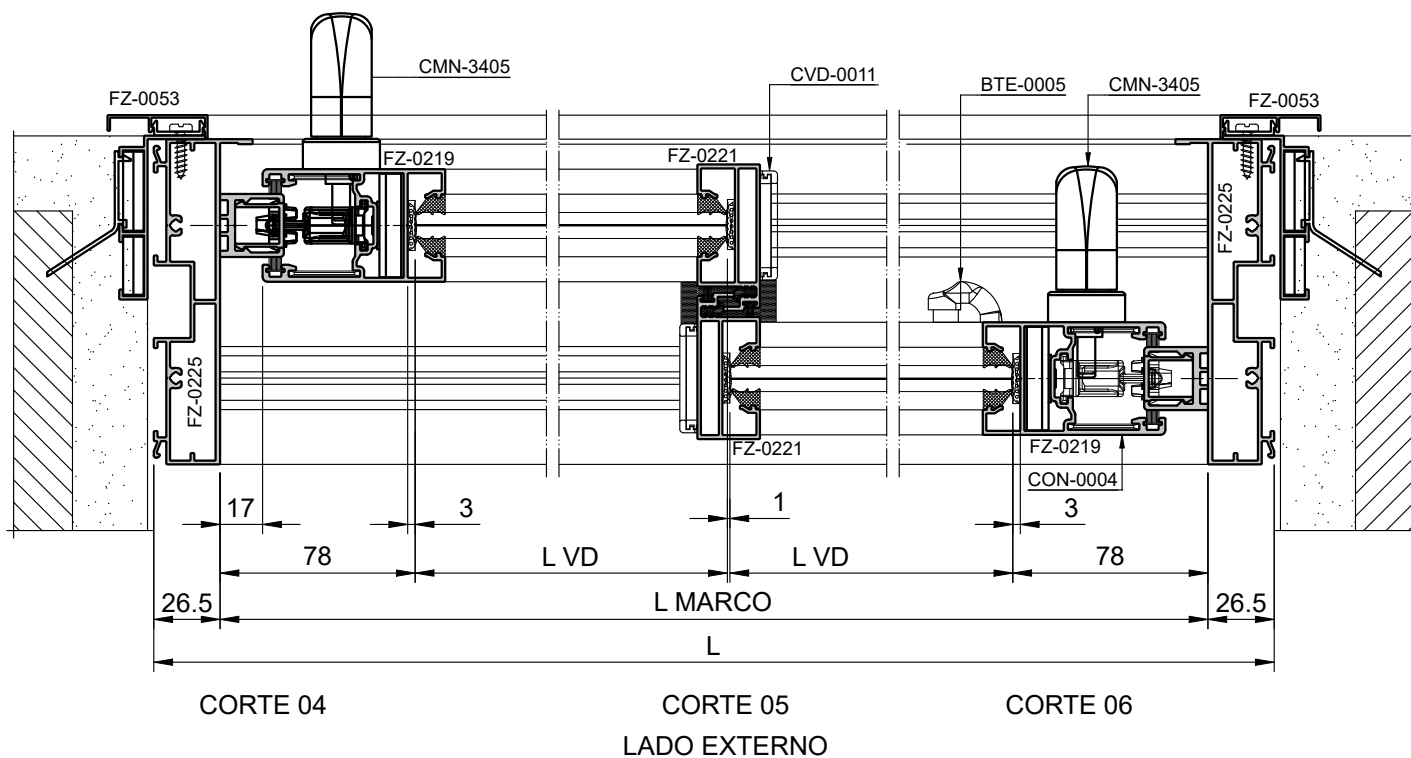


**JANELA DE CORRER**  
**2 FOLHAS**

# JANELA DE CORRER 2 FOLHAS

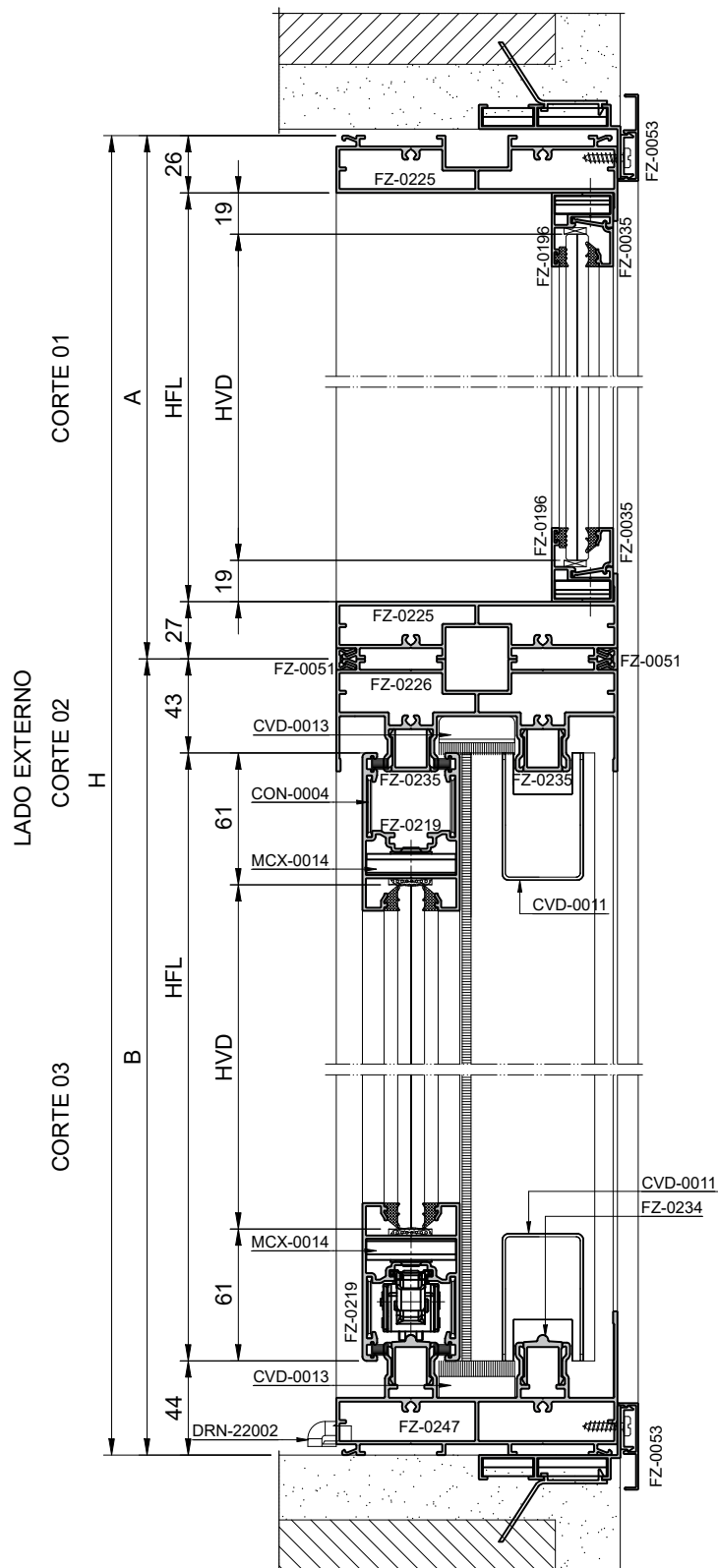
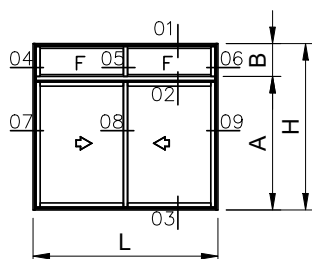
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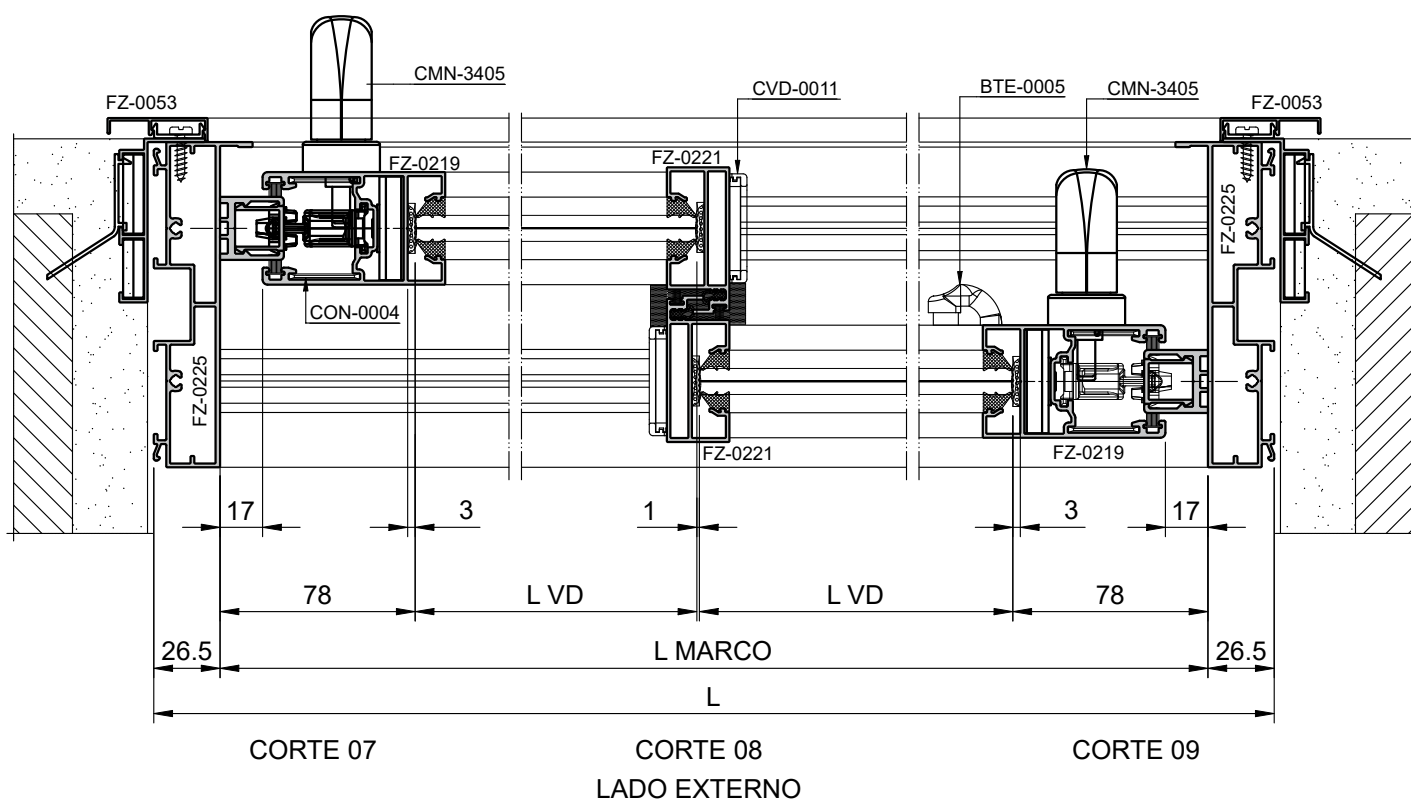
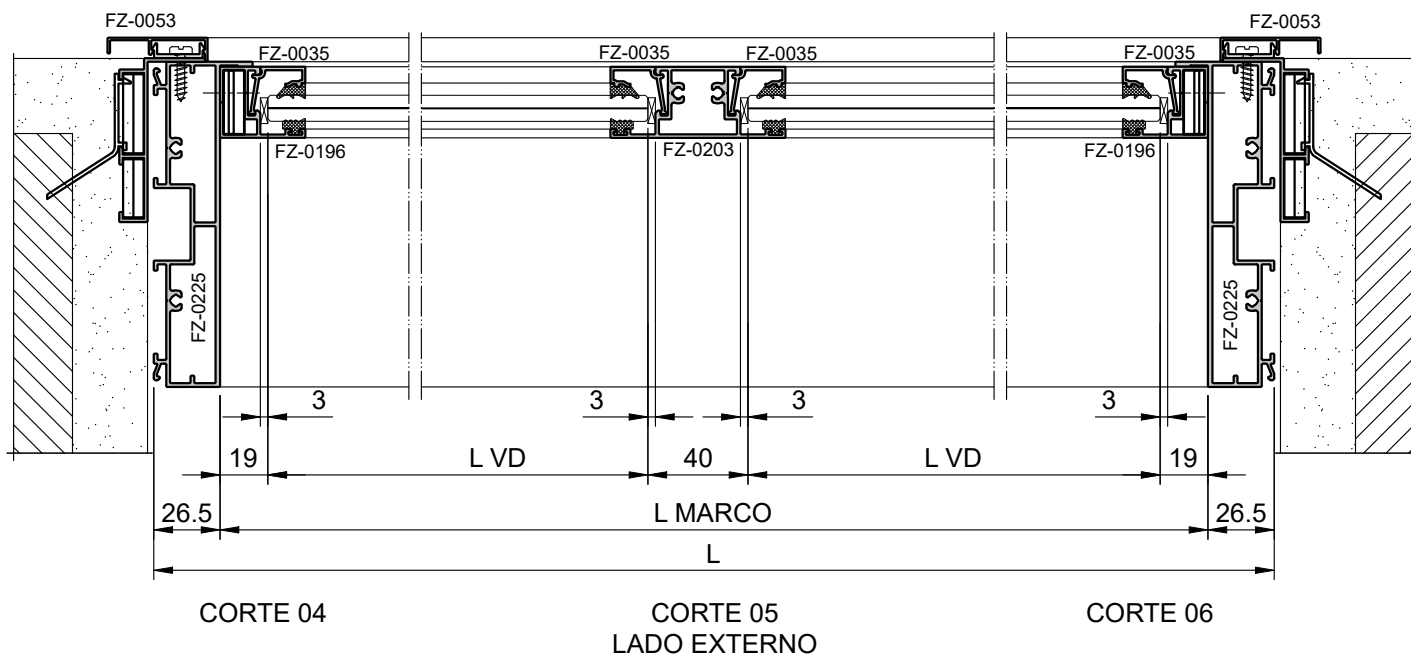


**JANELA DE CORRER**  
**2 FOLHAS****COM PEITORIL**

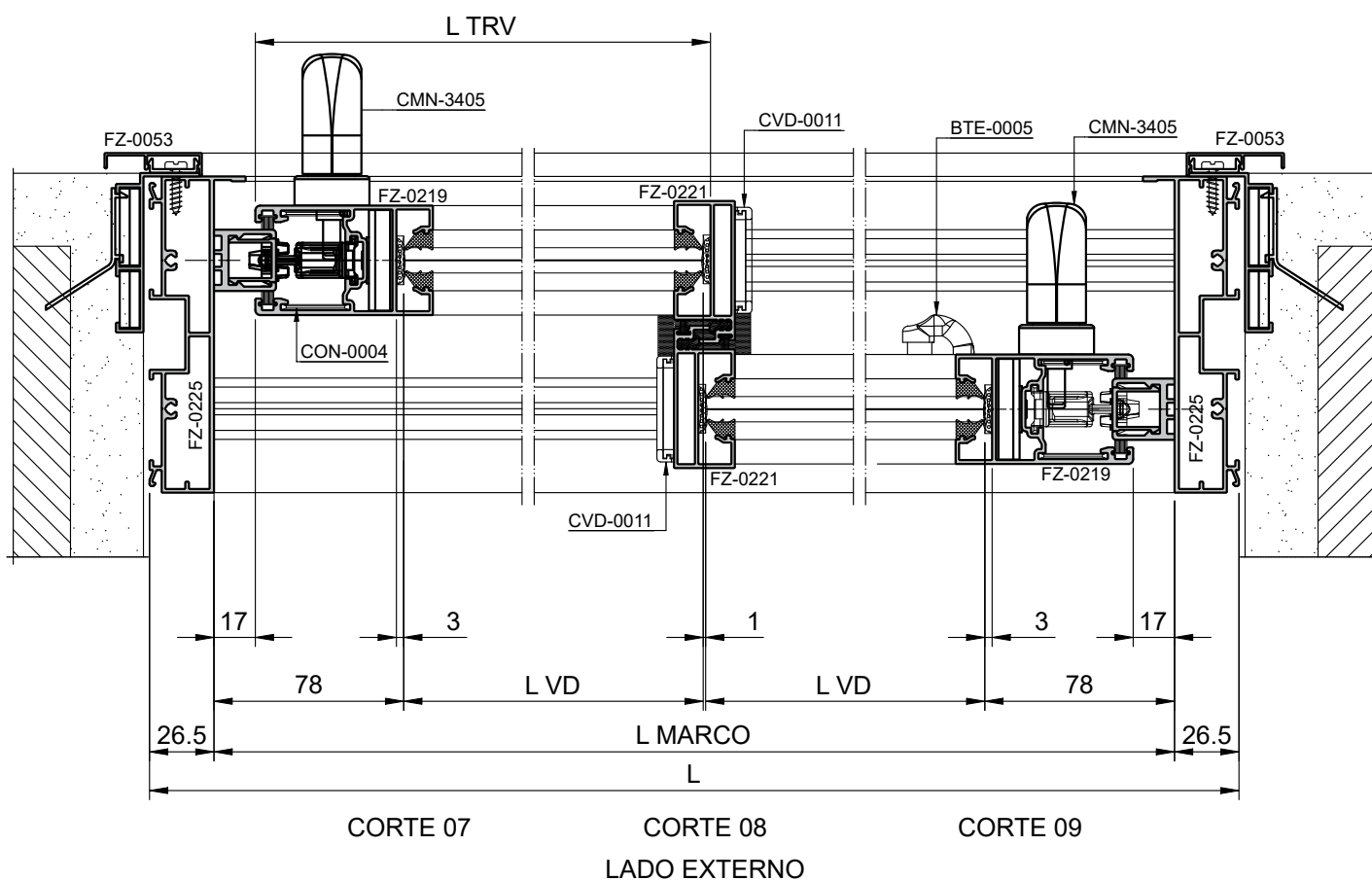
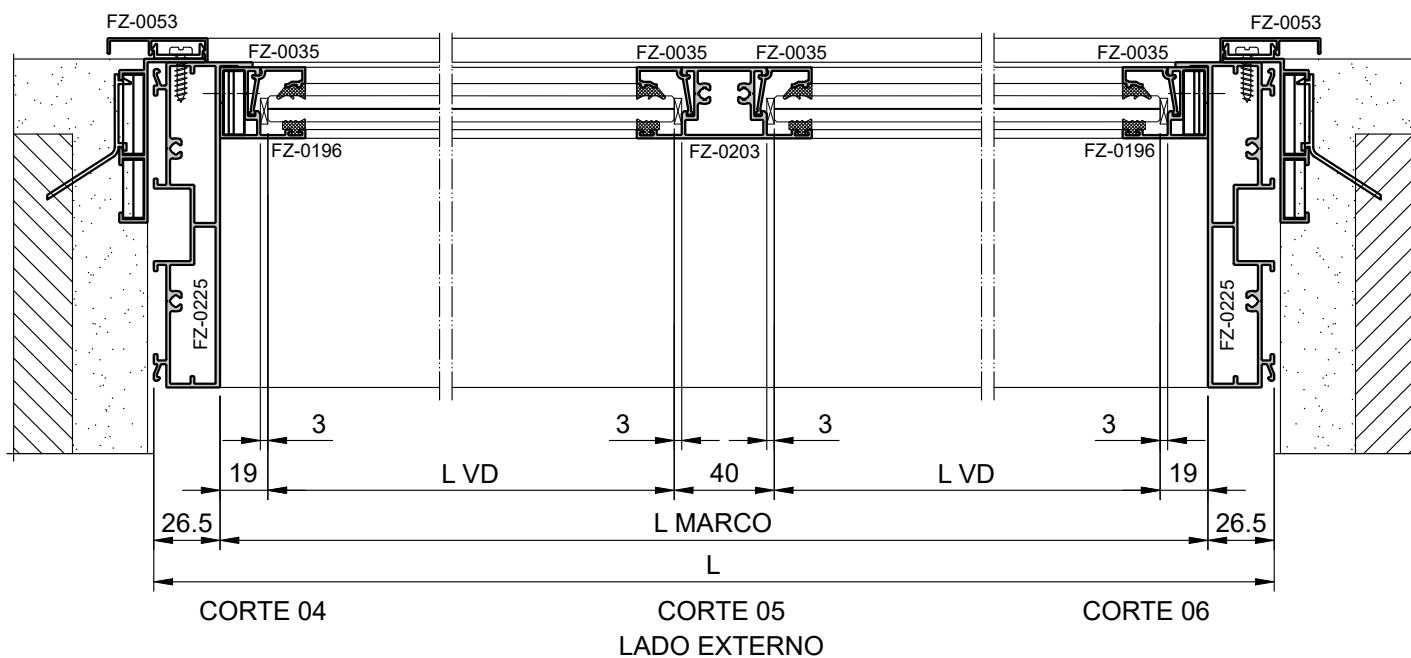
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COM BANDEIRA



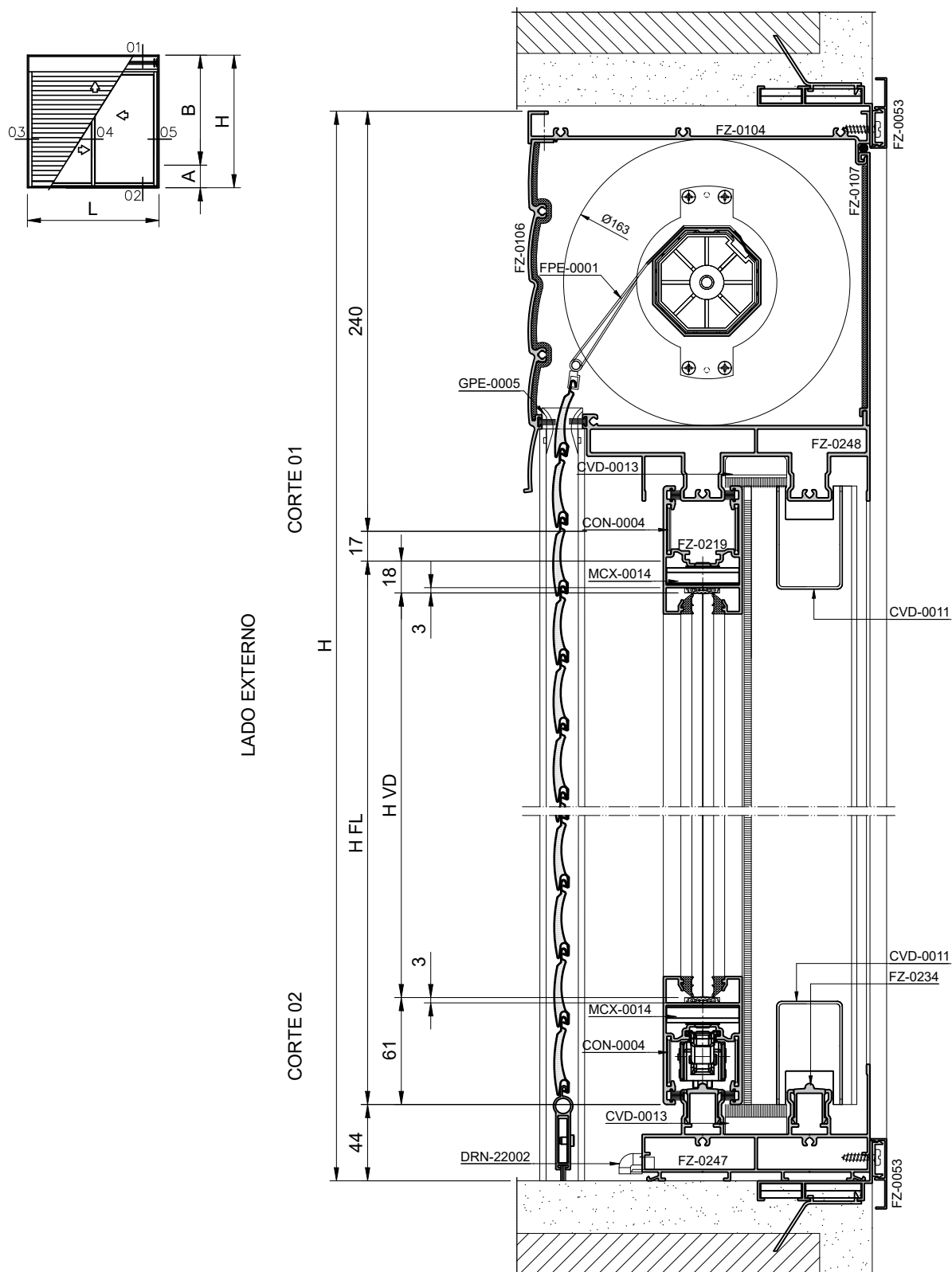
**JANELA DE CORRER**  
**2 FOLHAS****COM BANDEIRA**



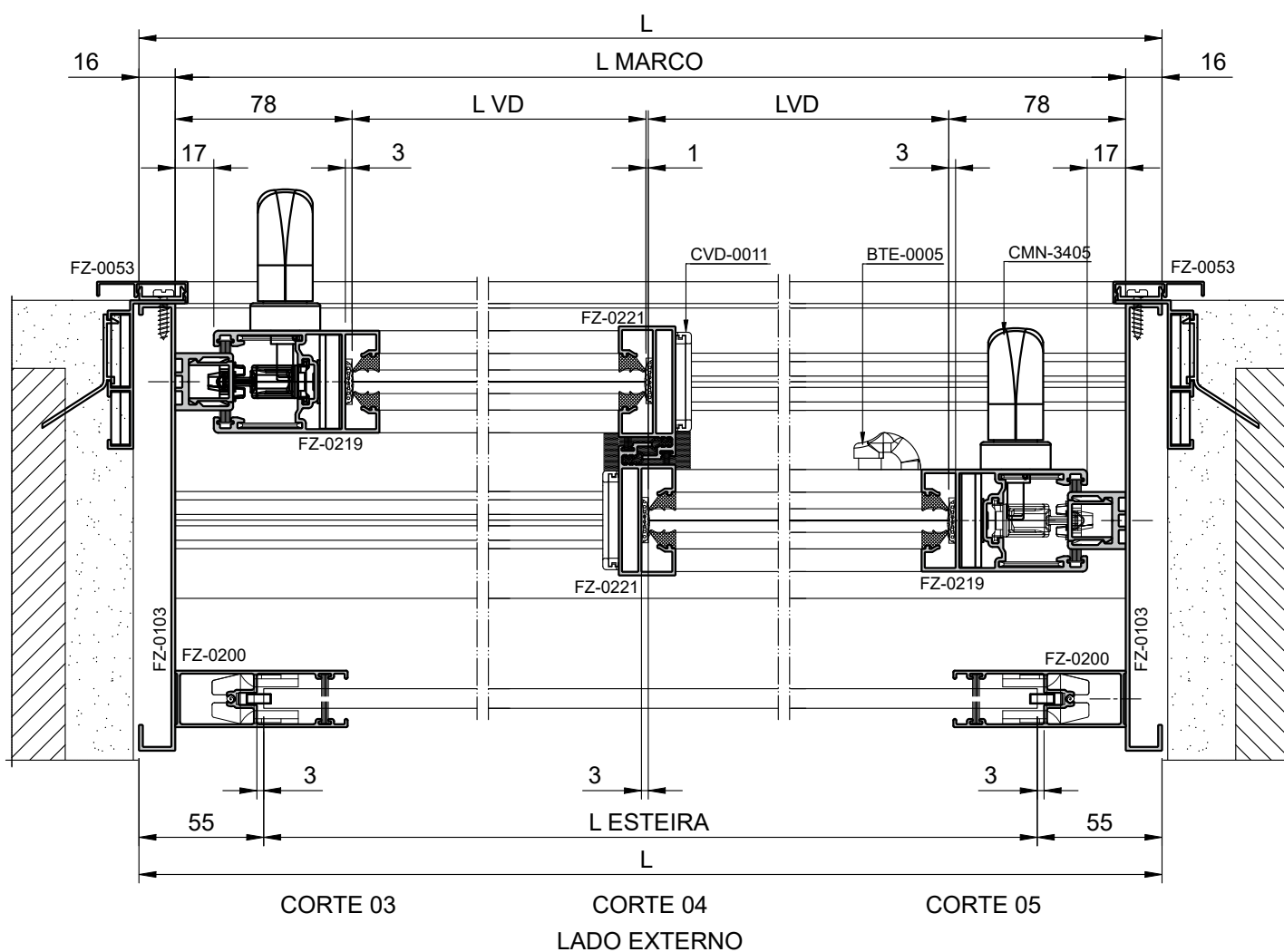
**JANELA DE CORRER**  
**2 FOLHAS****COM PEITORIL E BANDEIRA**

# JANELA DE CORRER 2 FOLHAS

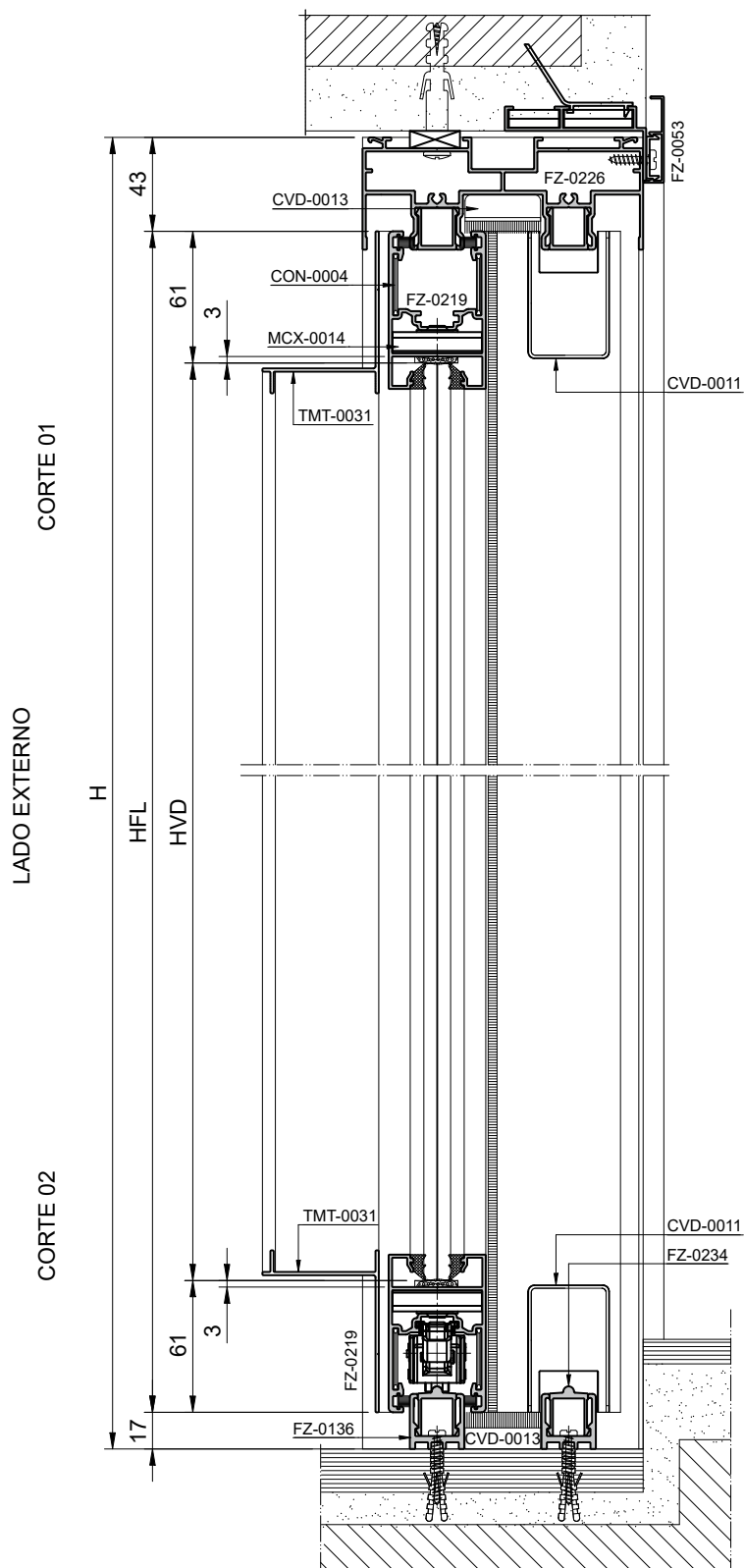
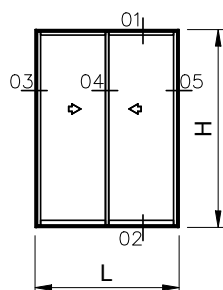
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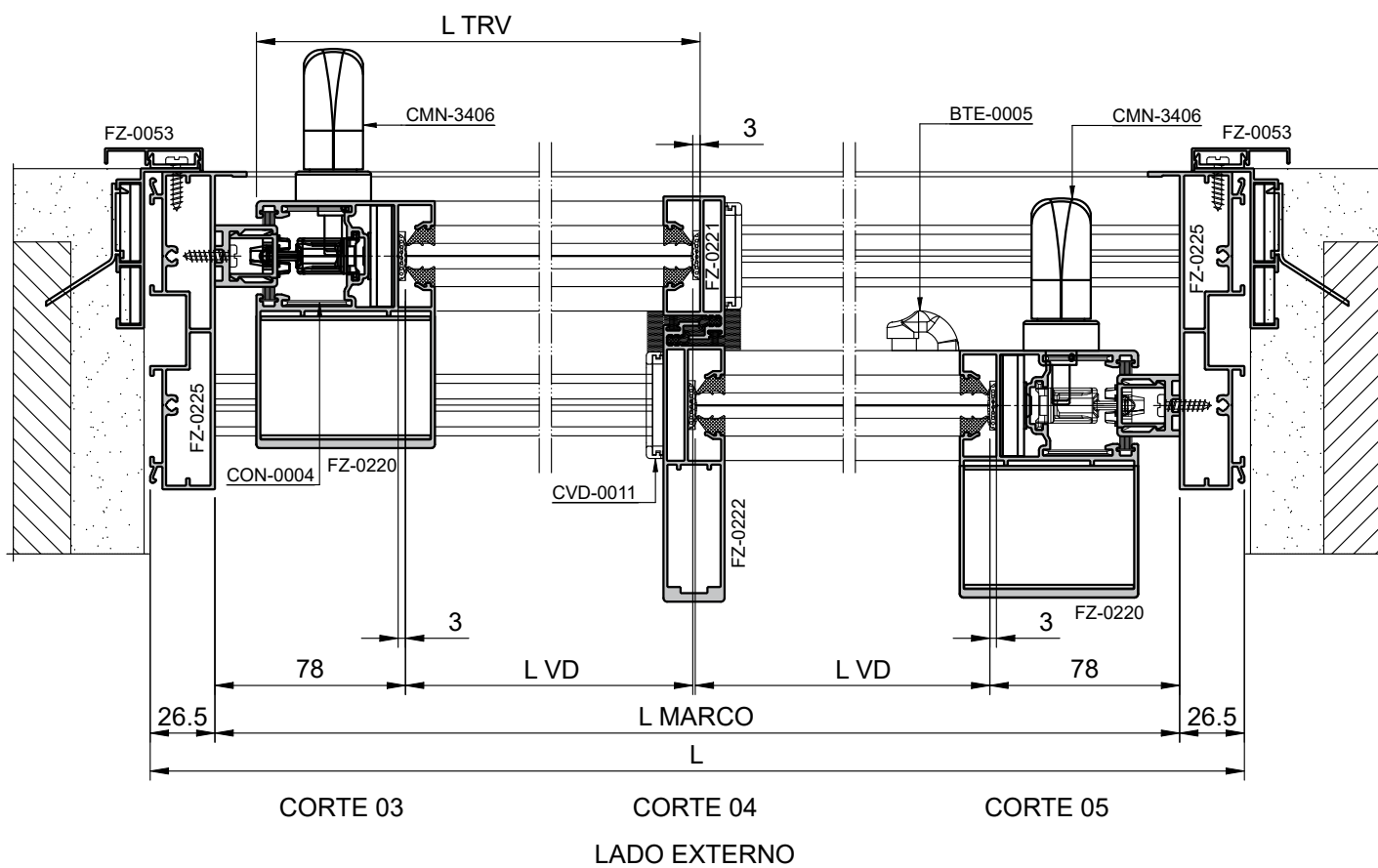




**JANELA DE CORRER**  
**2 FOLHAS****COM PERSIANA INTEGRADA**

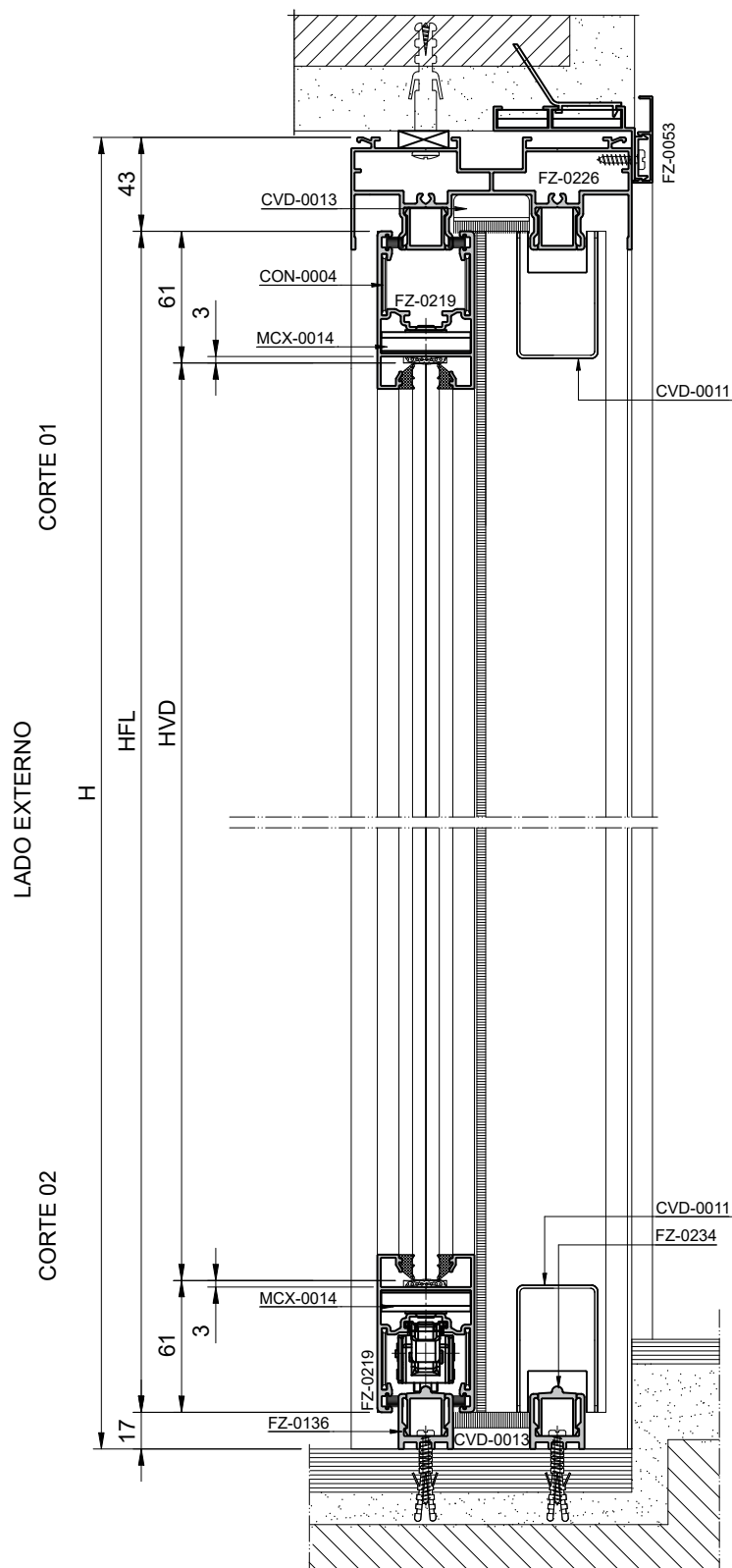
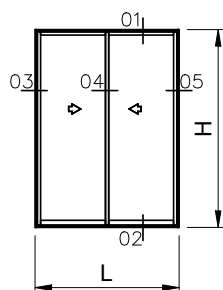
# PORTA DE CORRER 2 FOLHAS

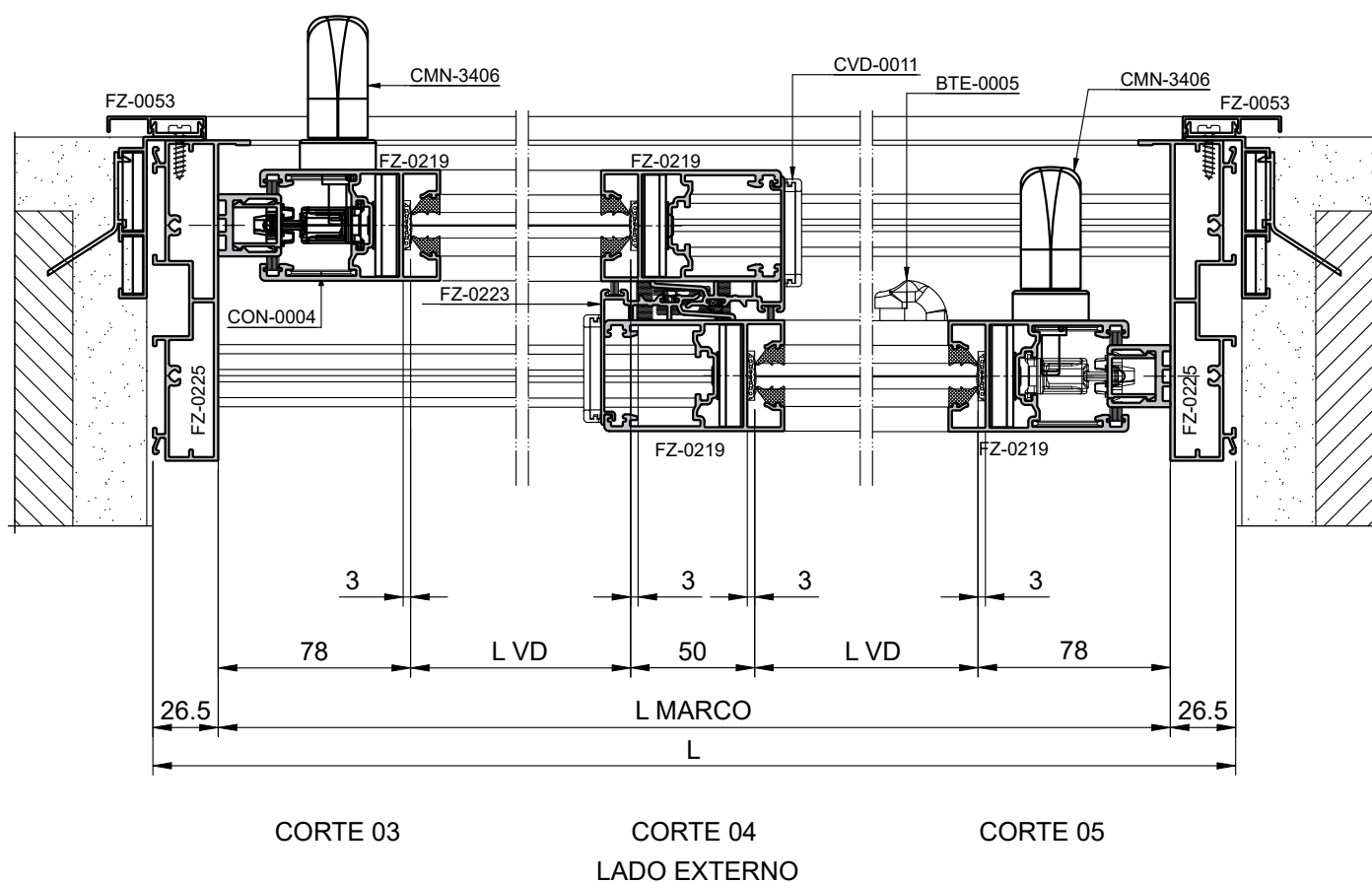


**PORTA DE CORRER**  
**2 FOLHAS**

# PORTA DE CORRER 2 FOLHAS

FOLHA COM CORTE 45º



**PORTA DE CORRER  
2 FOLHAS****FOLHA COM CORTE 45°**

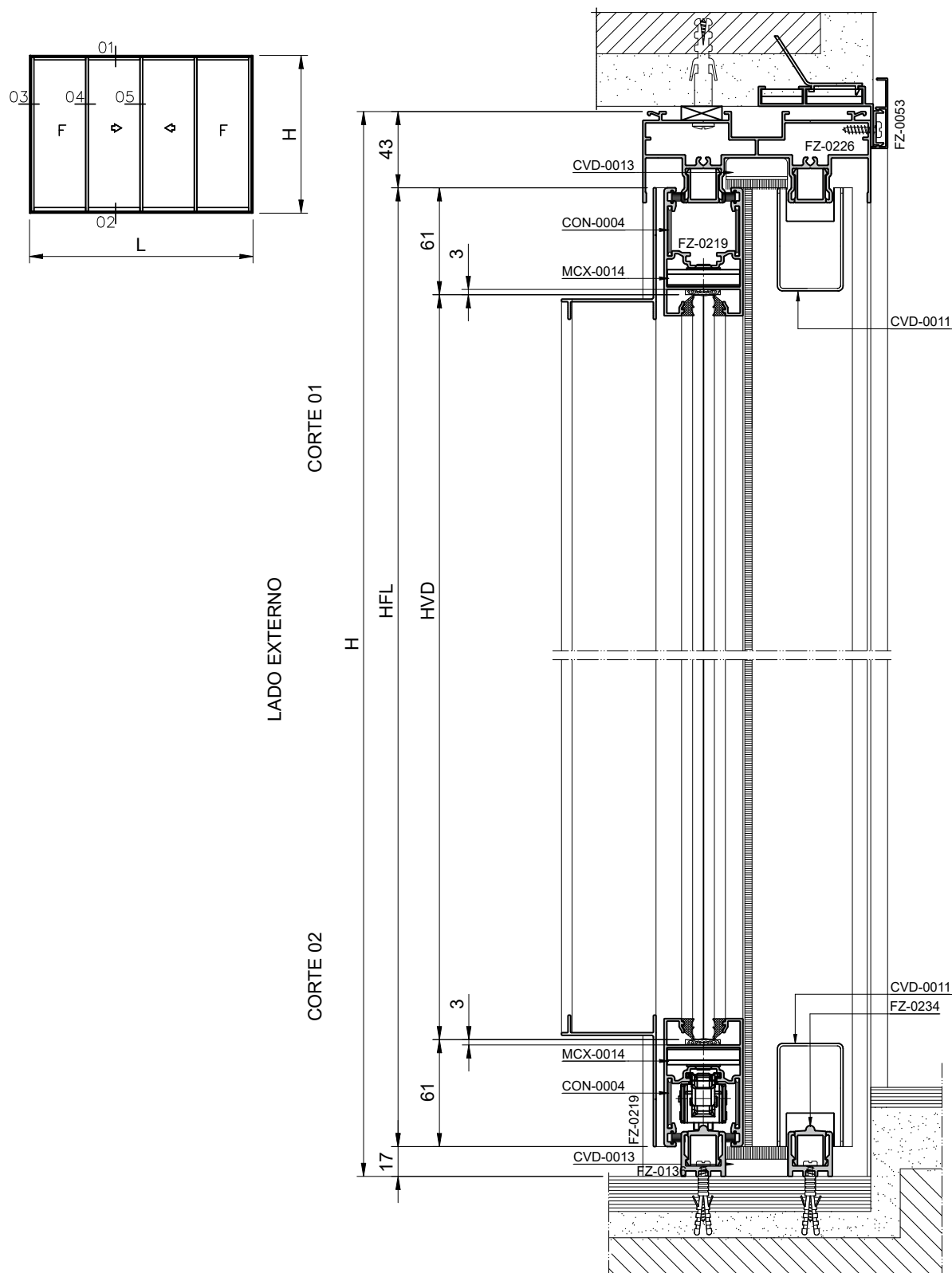


**COM PERSIANA INTEGRADA**



# PORTA DE CORRER 4 FOLHAS

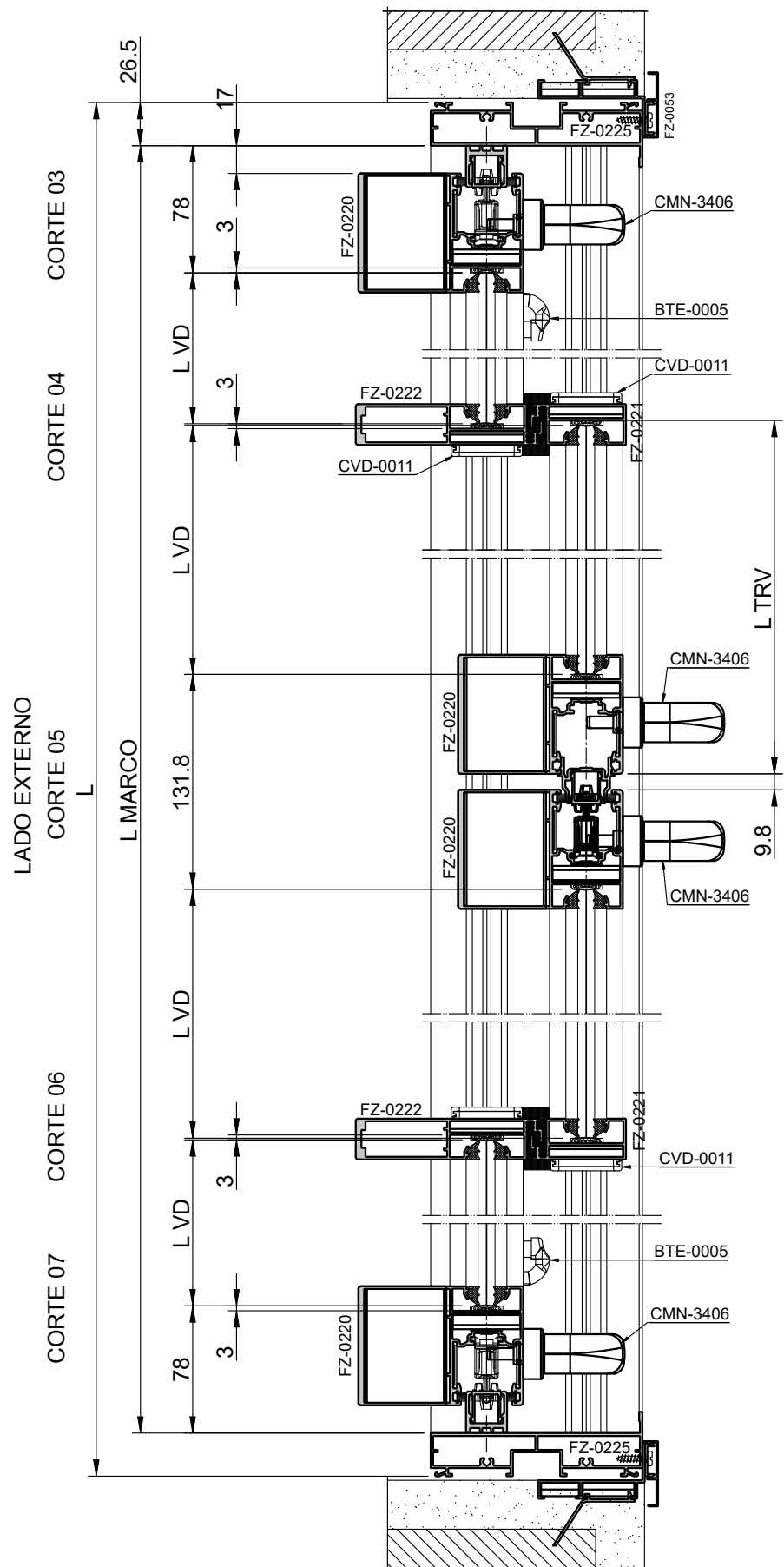
## COM FECHAMENTO CENTRAL





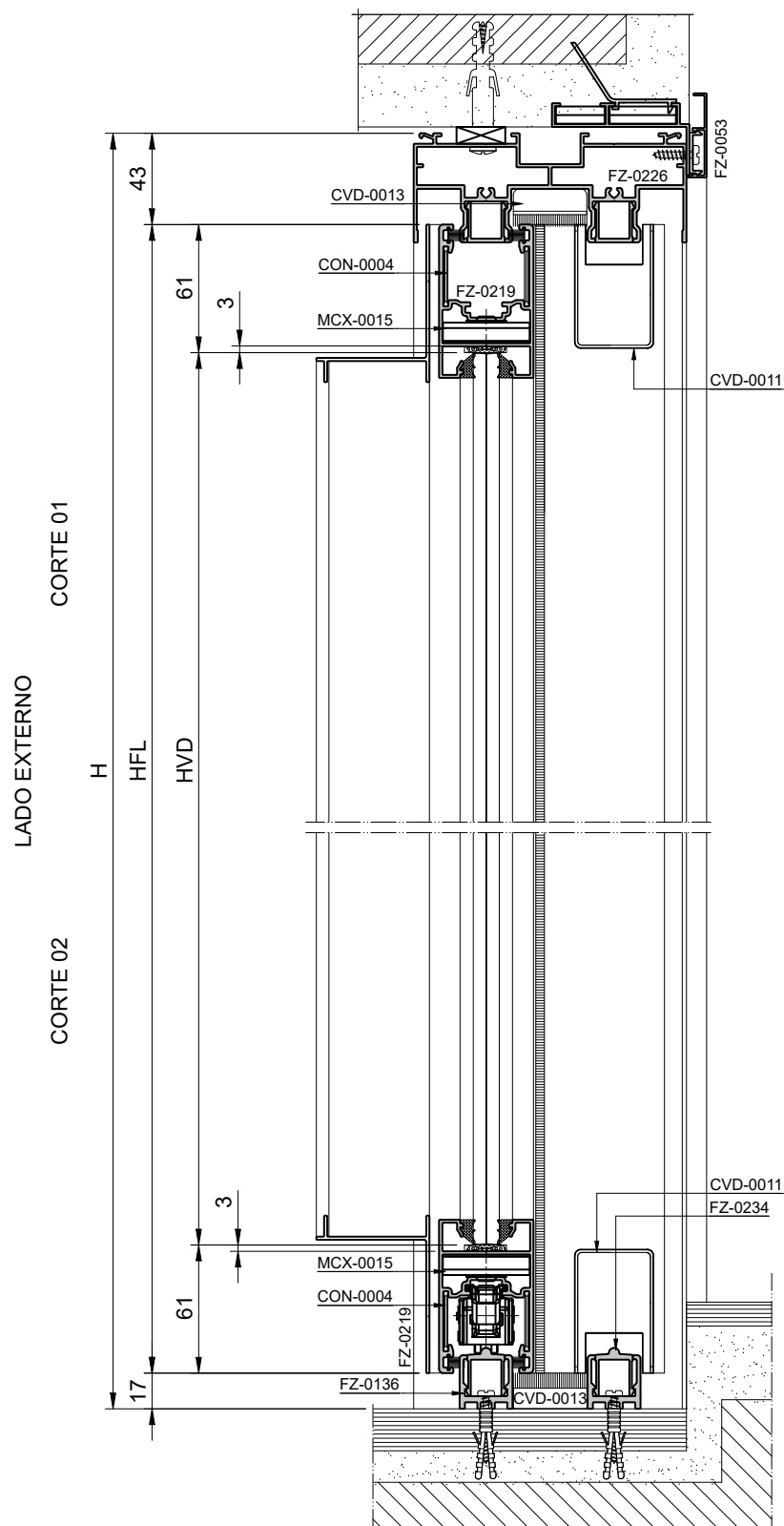
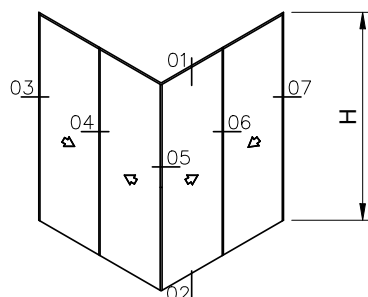
**PORTA DE CORRER**  
**4 FOLHAS**

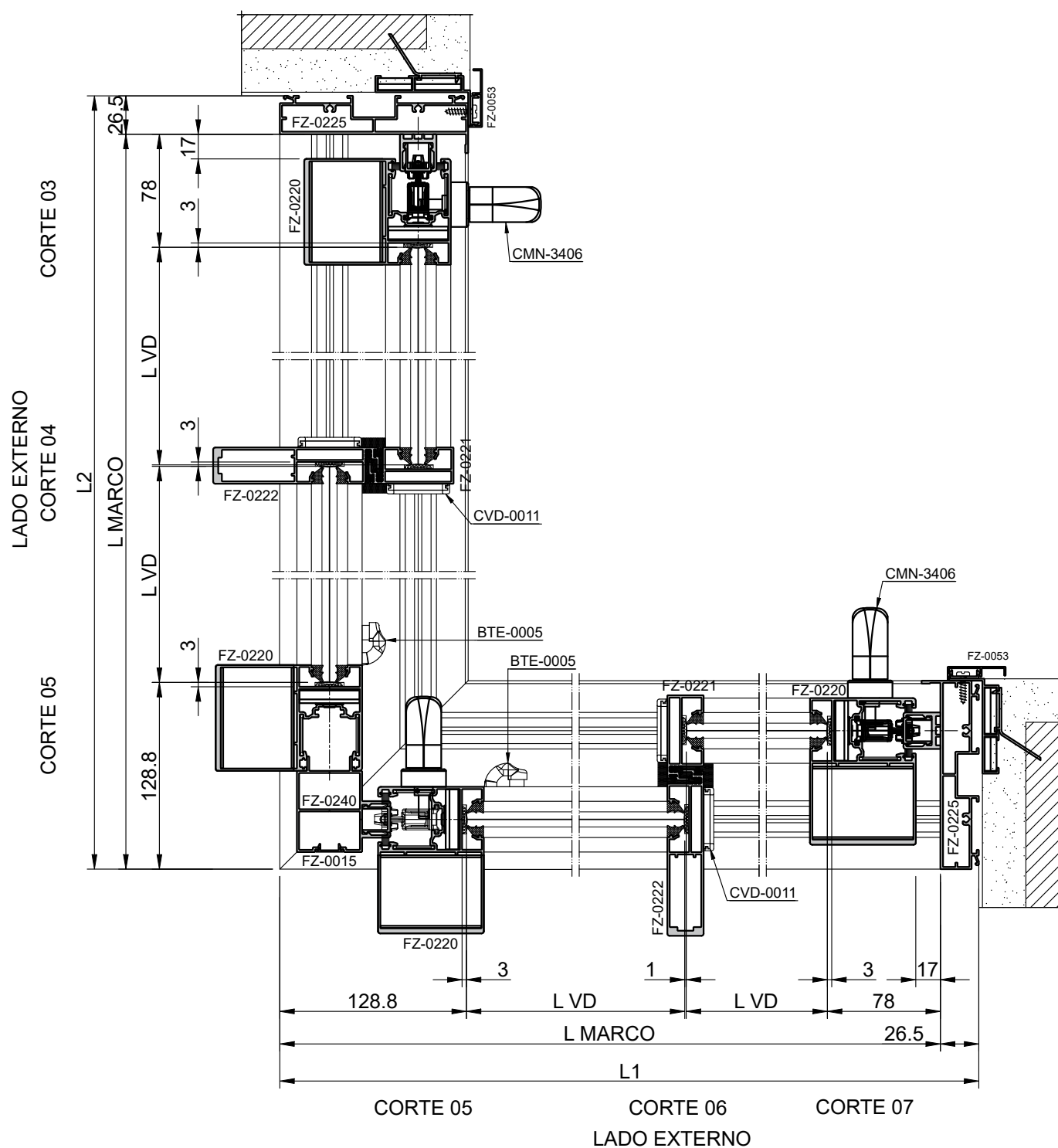
**COM FECHAMENTO CENTRAL**



# PORTA DE CORRER 4 FOLHAS

**CANTO 90º**



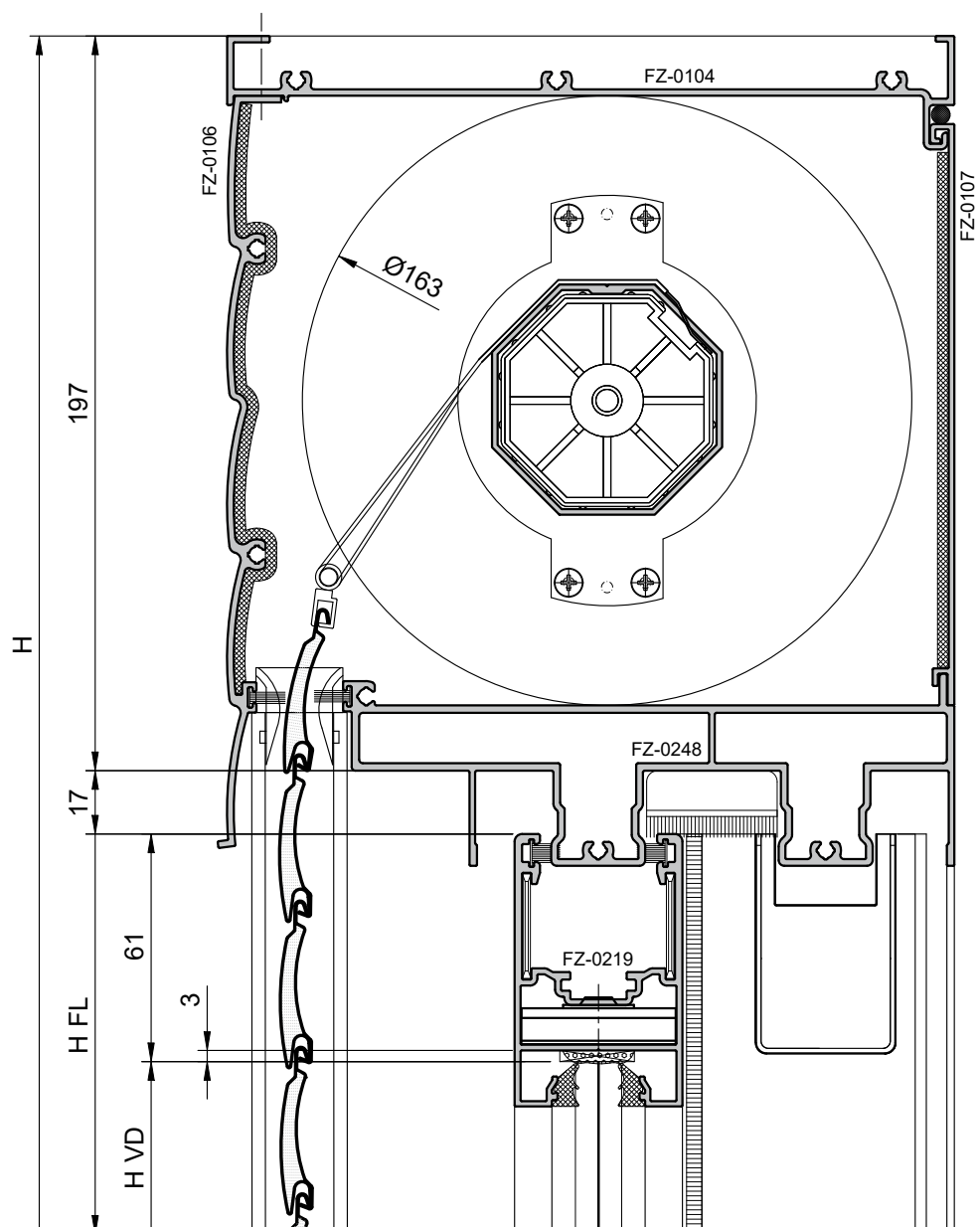
**PORTA DE CORRER**  
**4 FOLHAS****CANTO 90º**

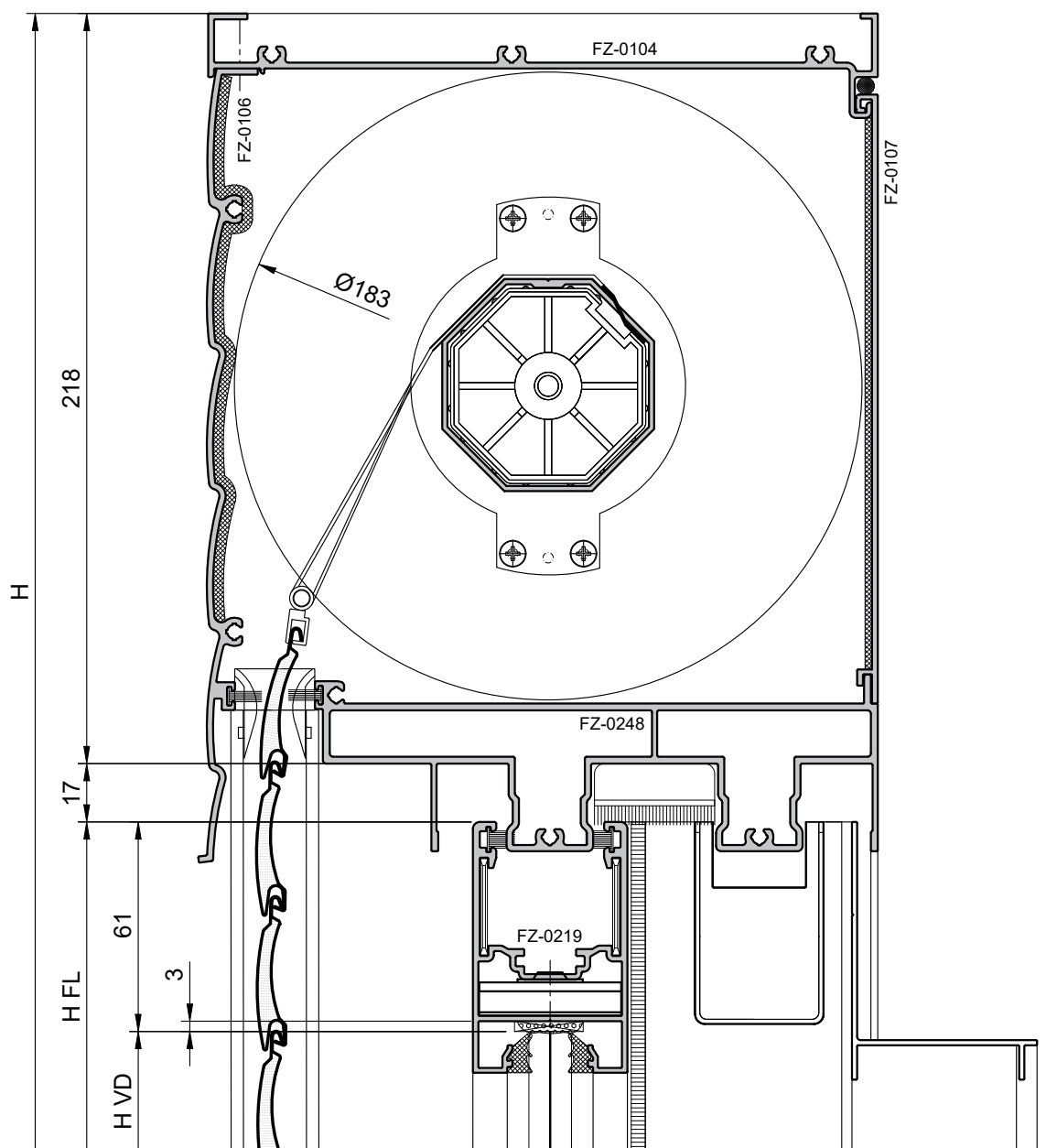
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# Detalhes Construtivos

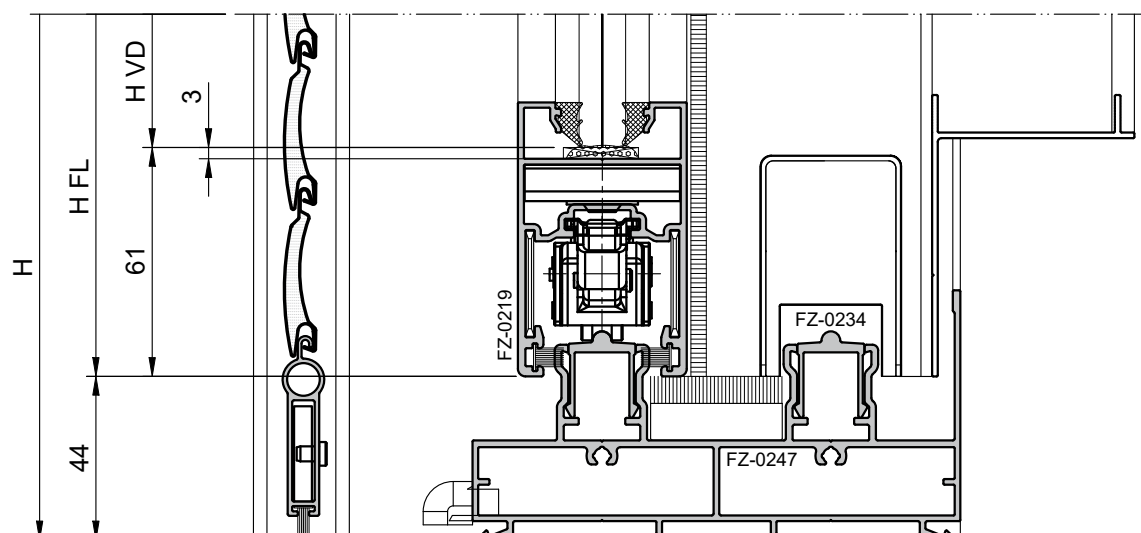
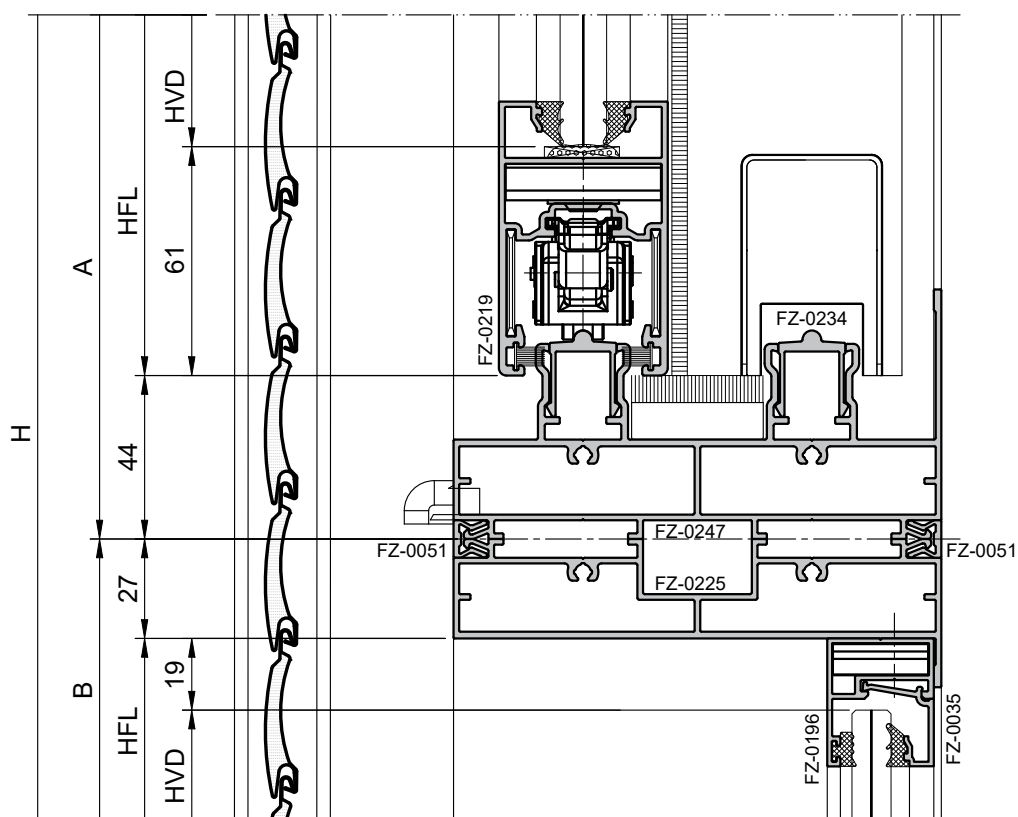
MONTAGENS

# CAIXA DE PERSIANA INTEGRADA COM RECOLHEDOR AUTOMÁTICO E EIXO DE 60MM

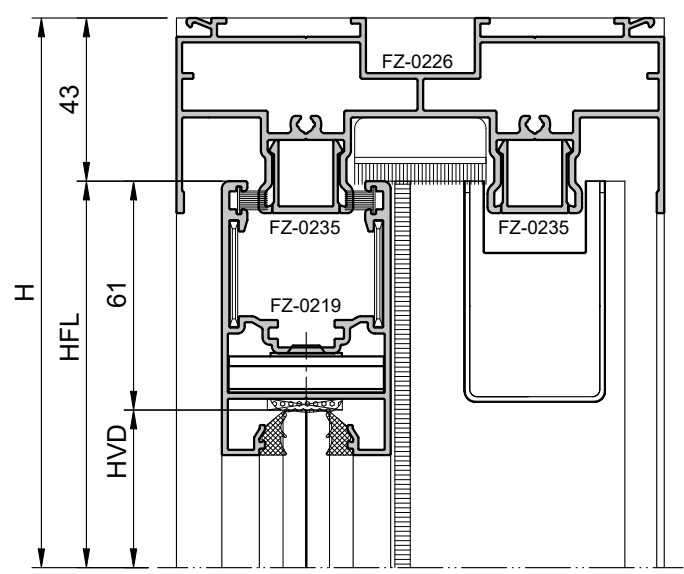
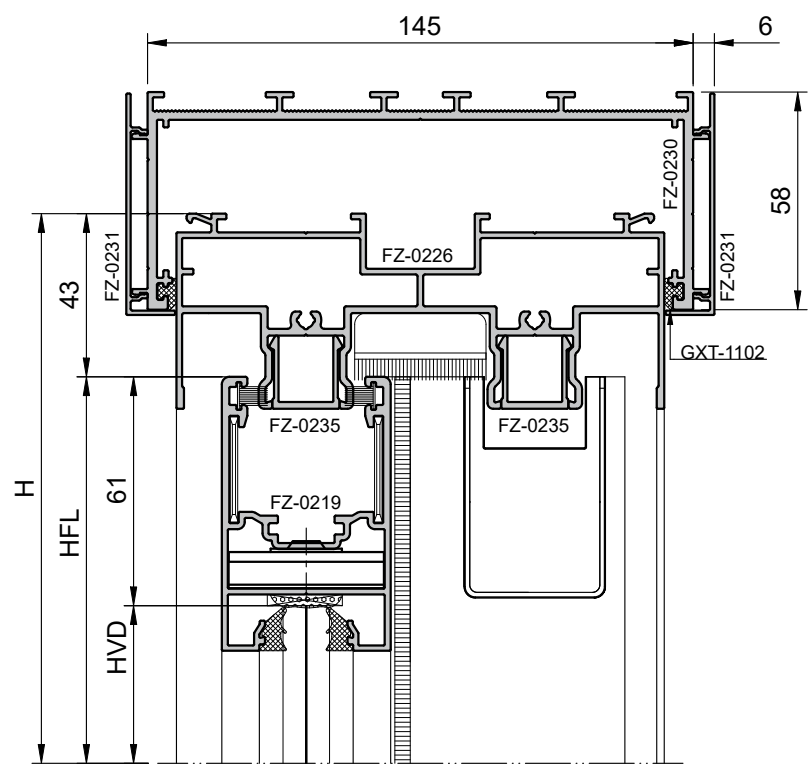


**CAIXA DE PERSIANA INTEGRADA COM  
RECOLHEDOR AUTOMÁTICO E EIXO DE 60MM**

## OPÇÃO DE PEITORIL E TRILHO INFERIOR PARA CAIXA DE PERSIANA INTEGRADA

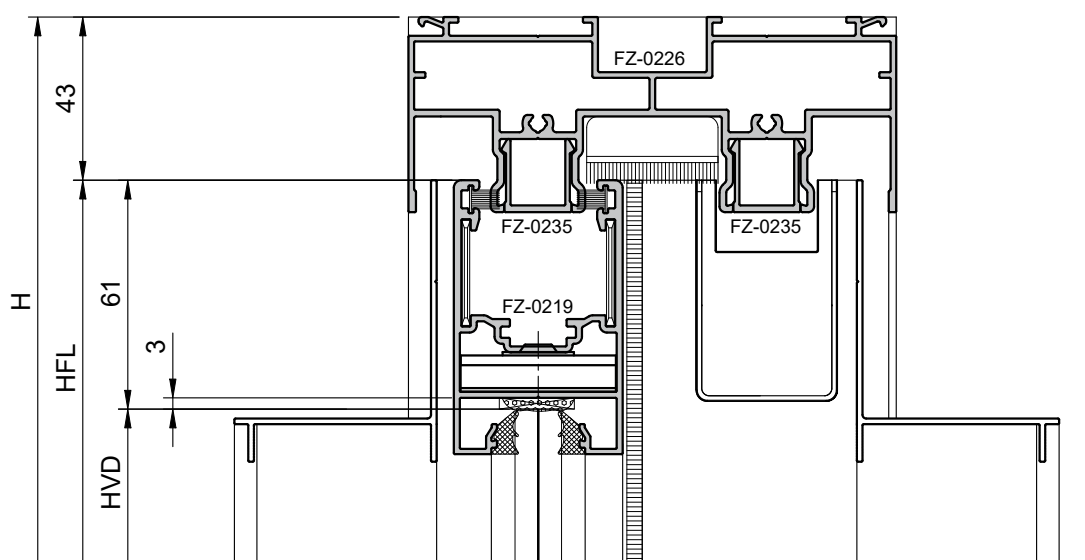
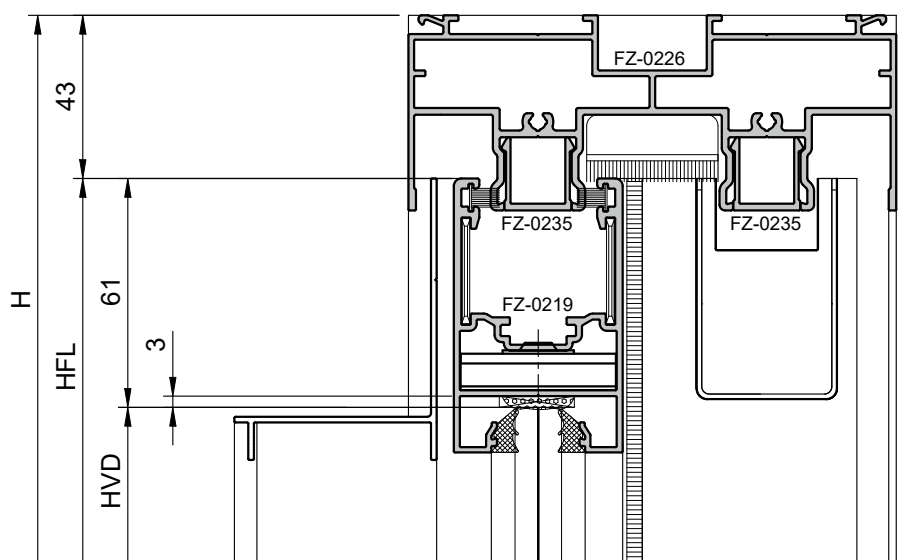


**OPÇÕES DE TRILHO SUPERIOR  
2 PLANOS**

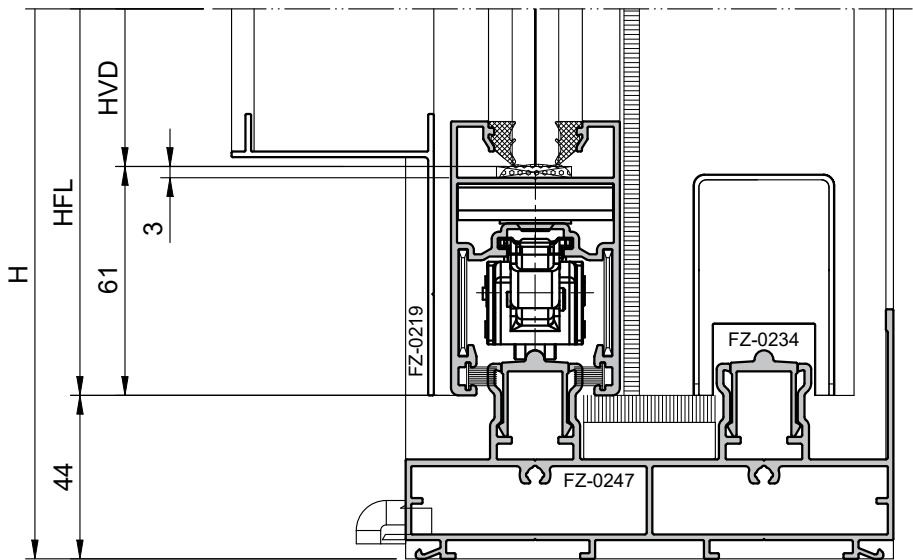
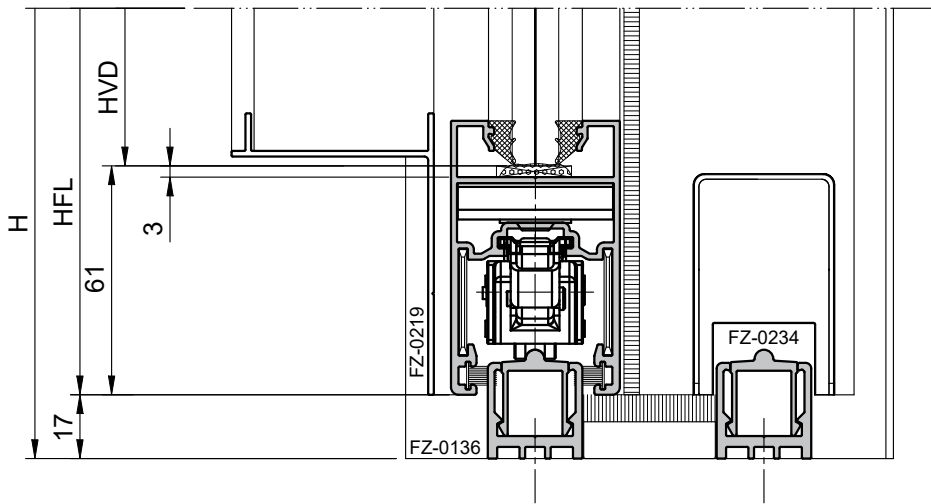




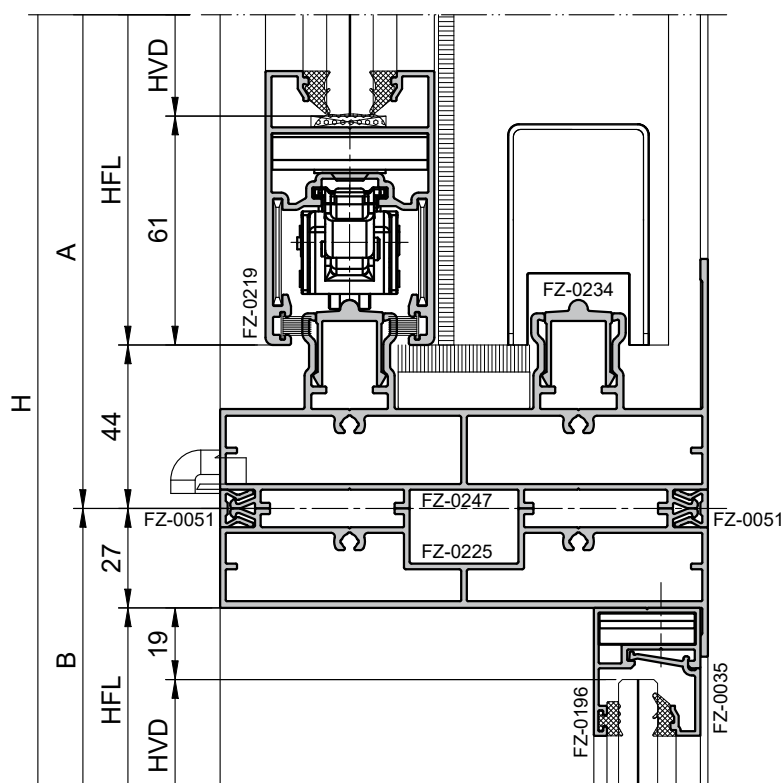
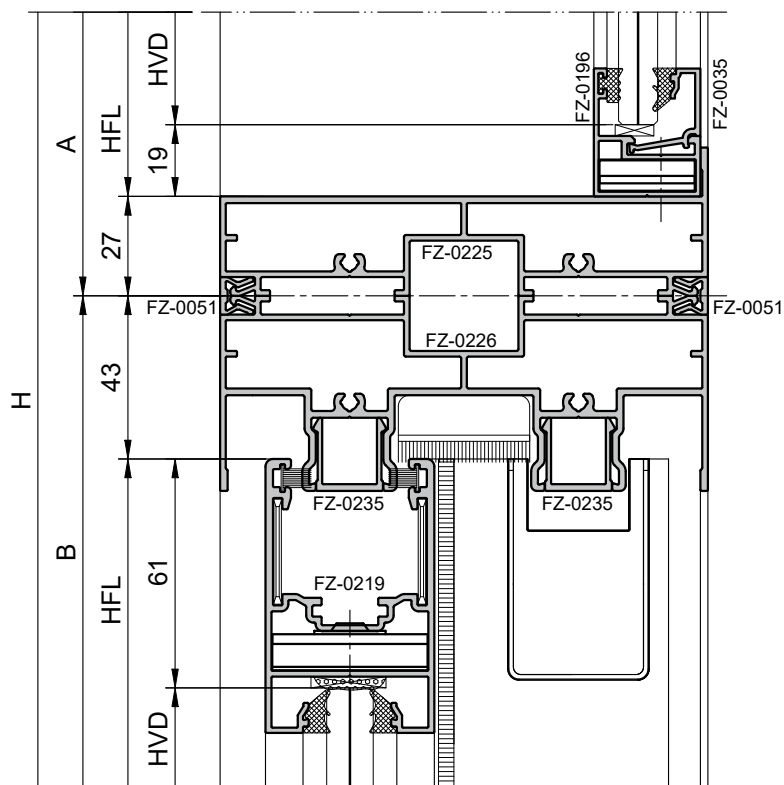
## VARIAÇÕES DE TRILHO SUPERIOR 2 PLANOS



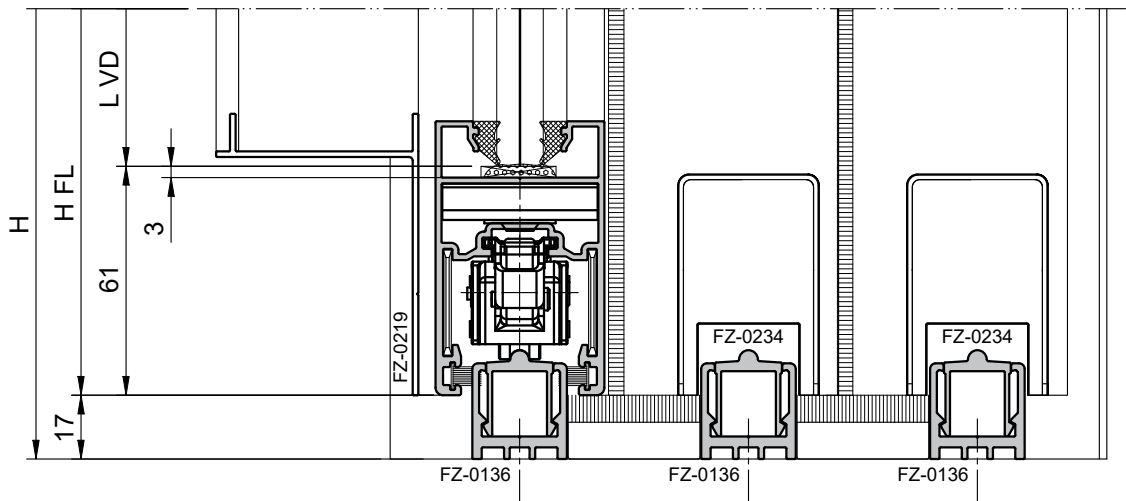
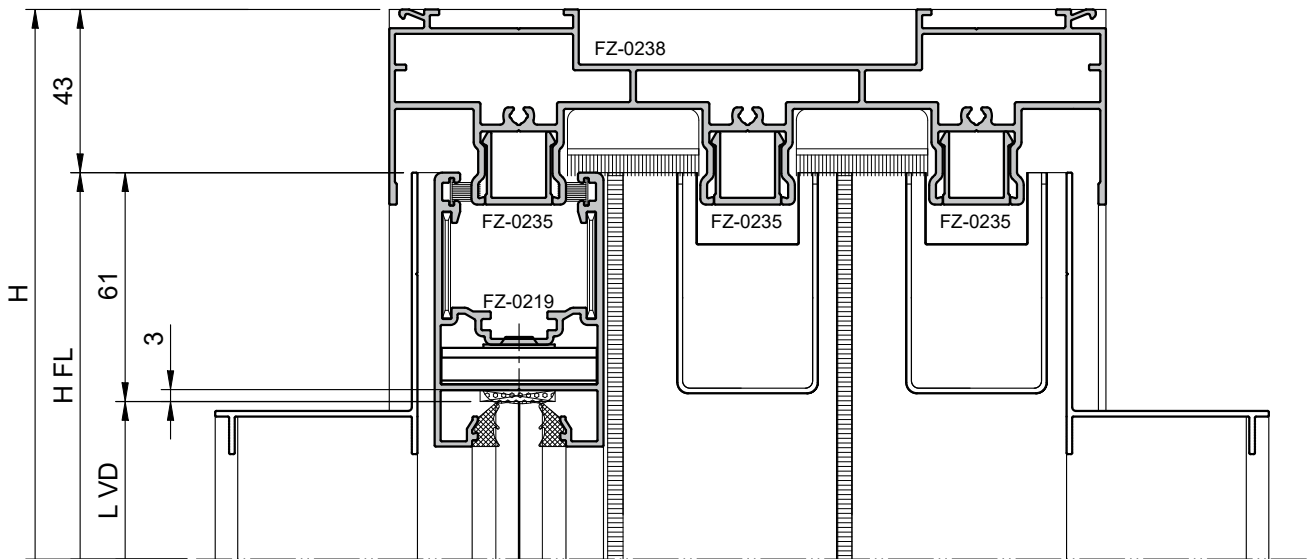
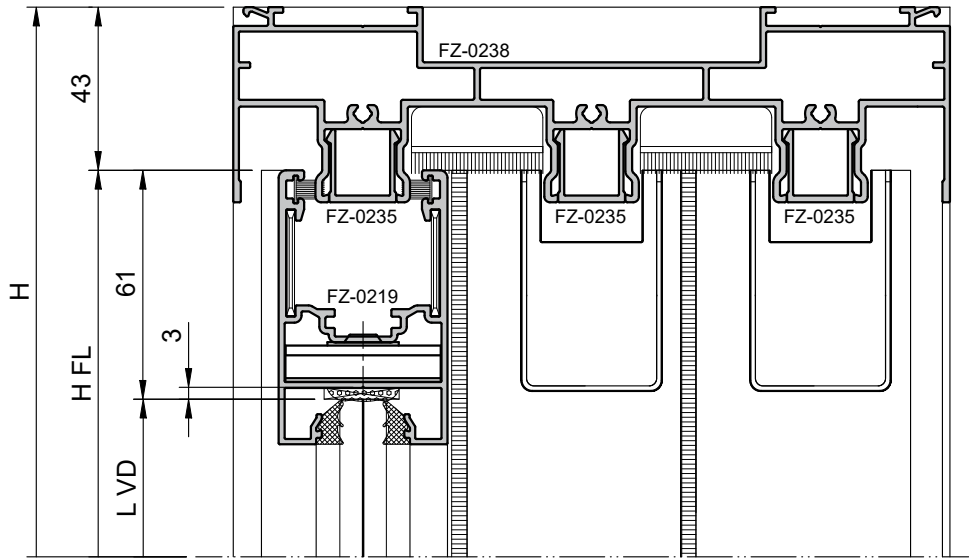
**OPÇÕES DE TRILHO INFERIOR  
2 PLANOS**



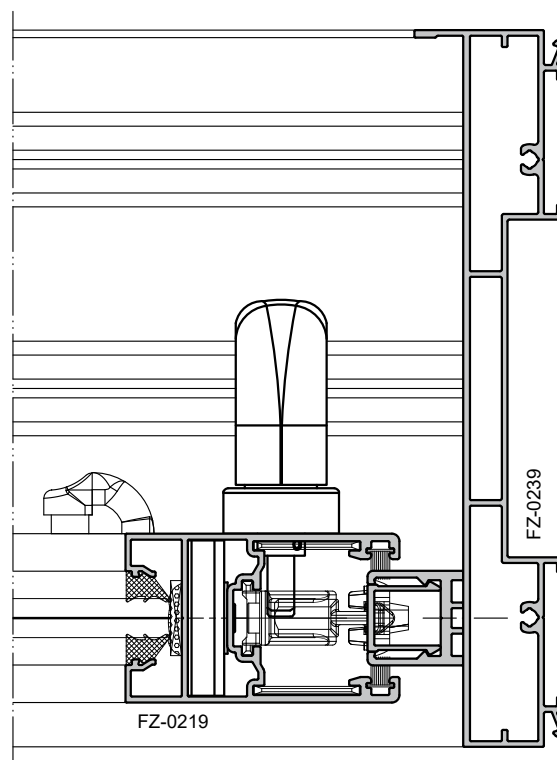
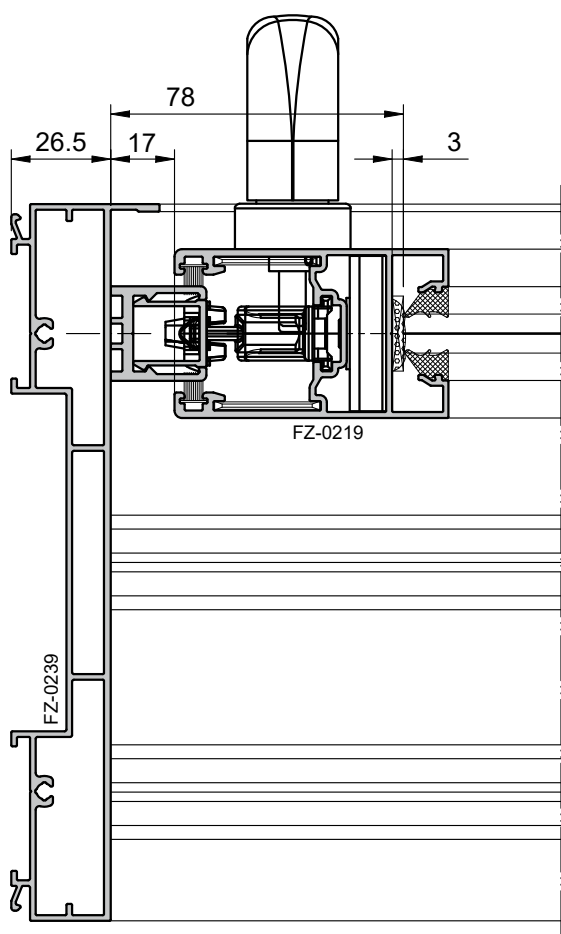
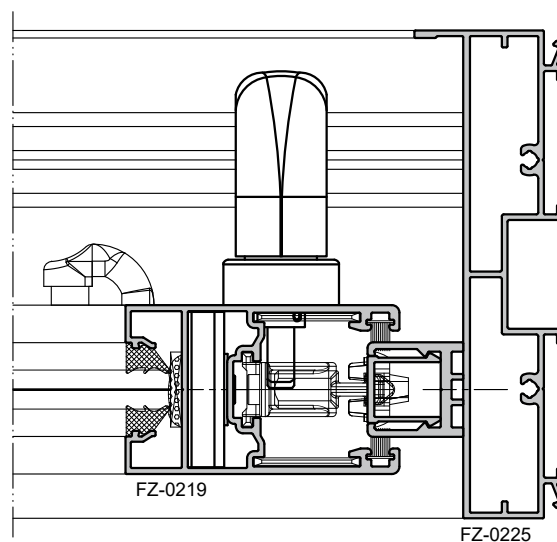
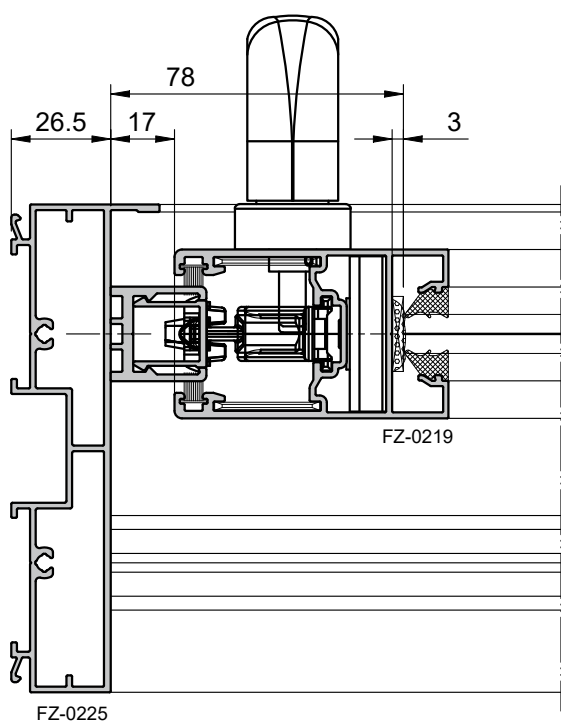
## OPÇÕES DE TRILHO COM PEITORIL/BANDEIRA 2 PLANOS

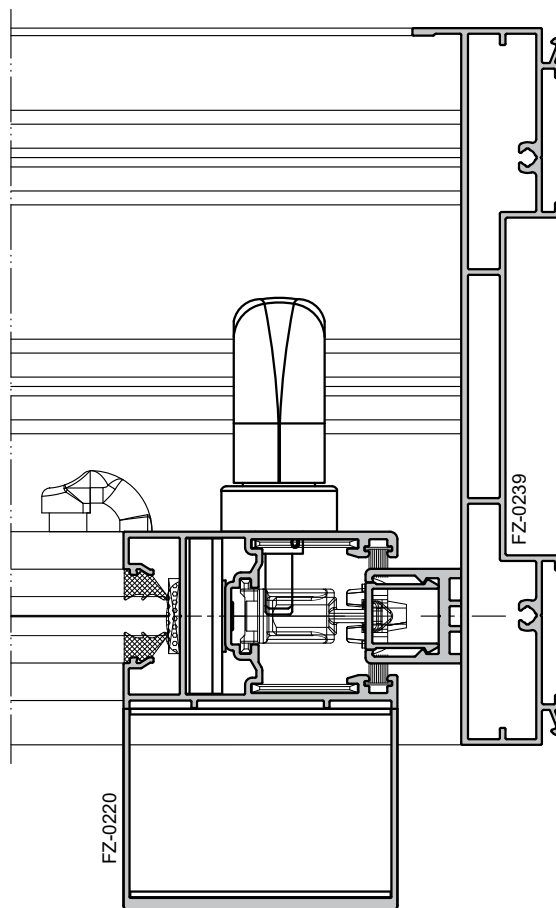
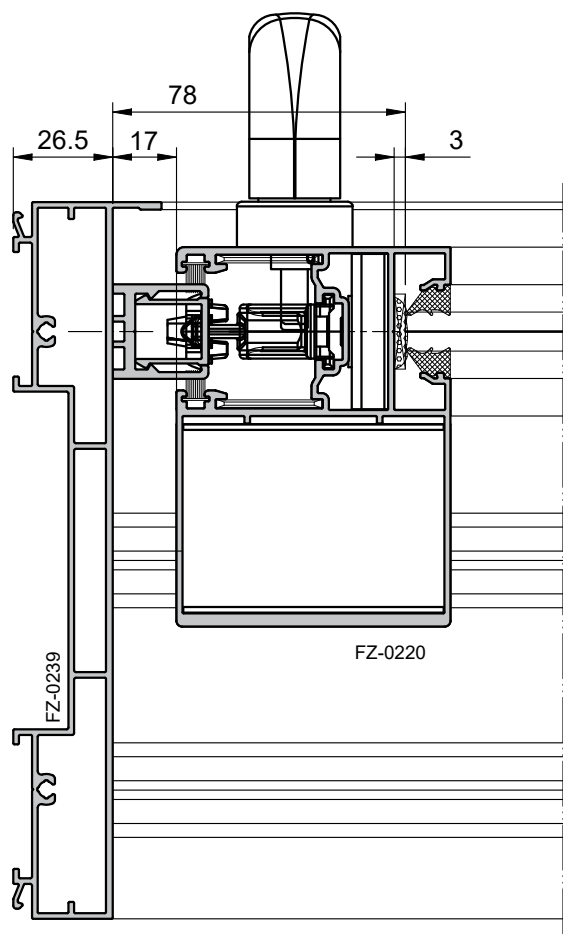
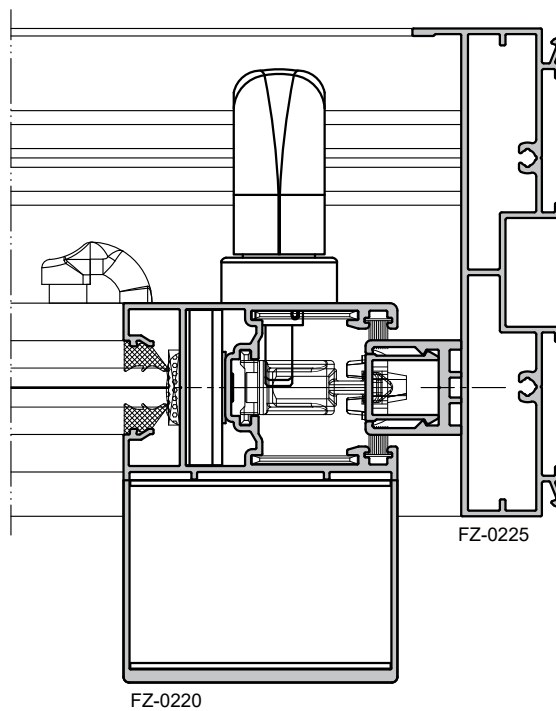
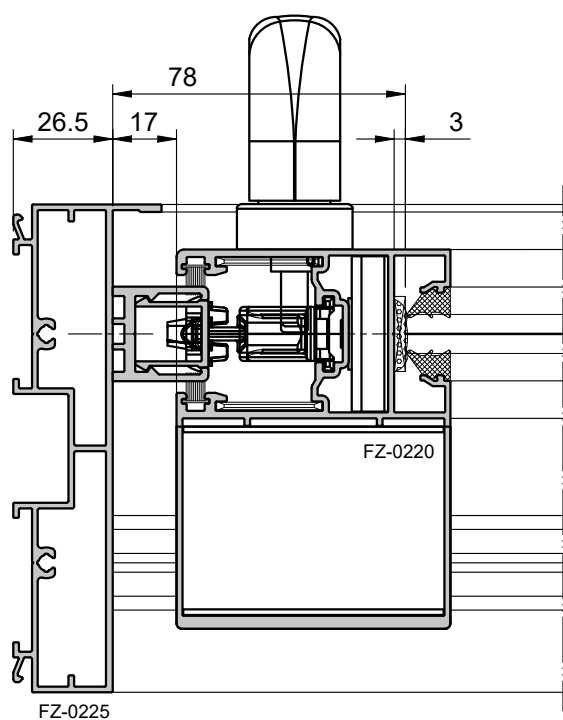


**VARIAÇÕES DE TRILHO SUPERIOR**  
**3 PLANOS**

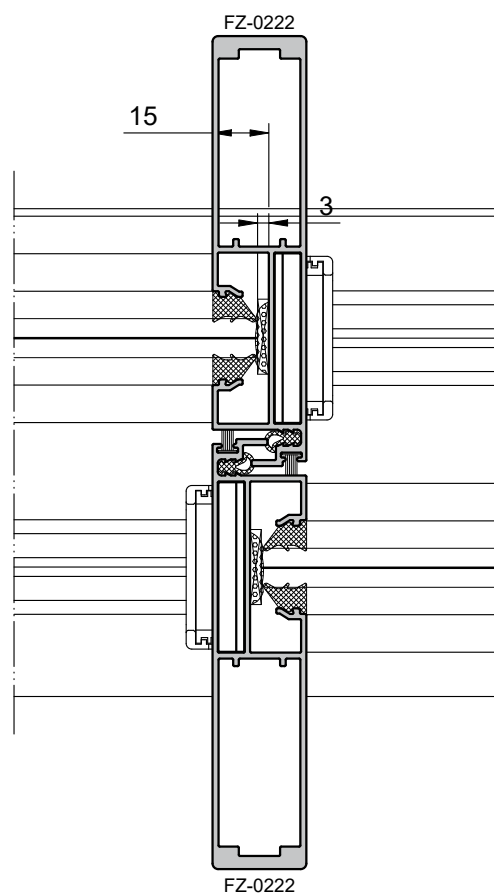
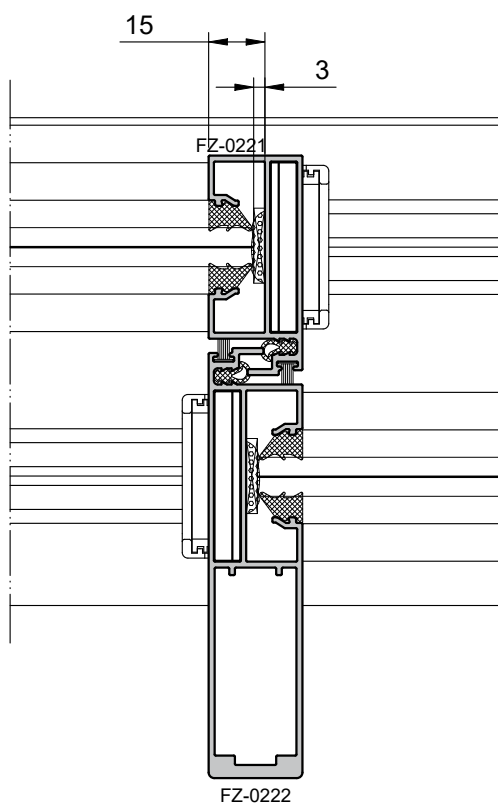
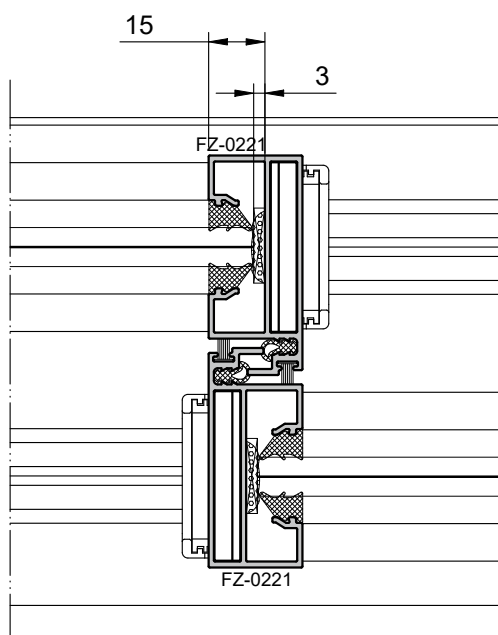


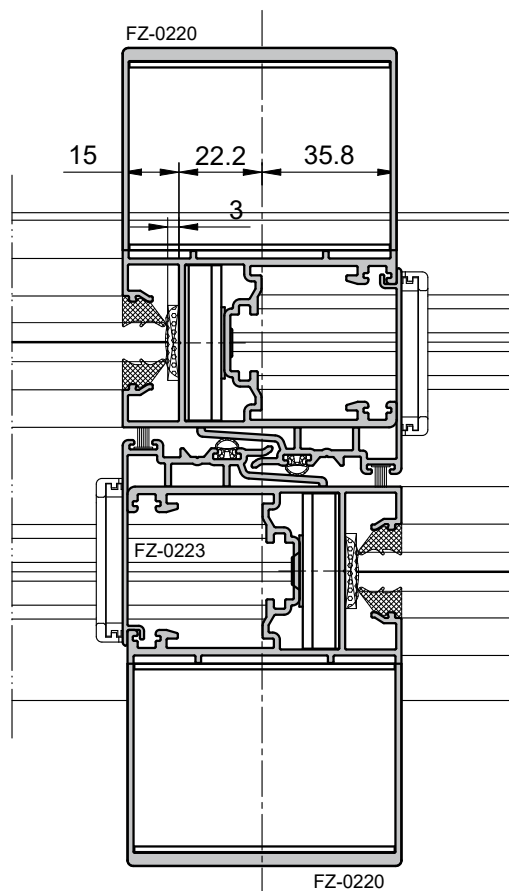
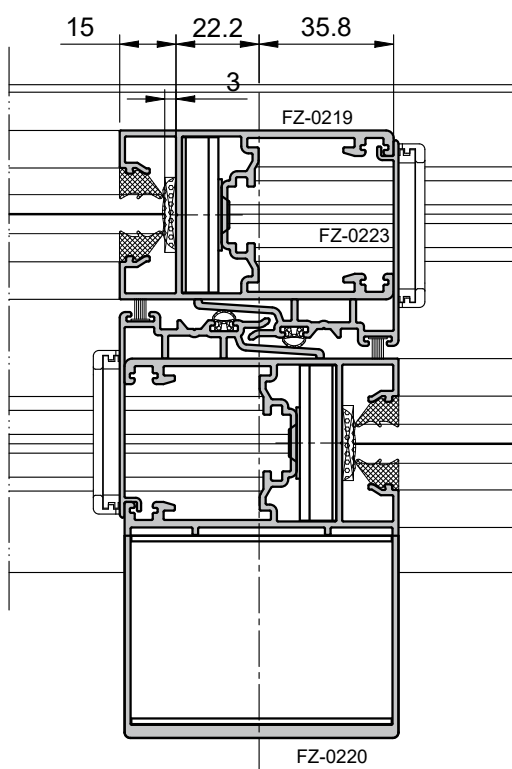
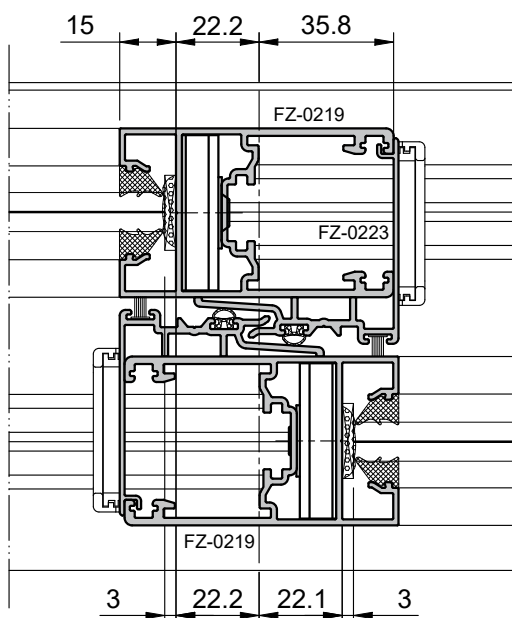
## FECHAMENTO LATERAL - OPÇÕES DE MONTANTE SEM REFORÇO DE 2 E 3 PLANOS



**FECHAMENTO LATERAL - OPÇÕES DE MONTANTE  
COM REFORÇO DE 2 E 3 PLANOS**

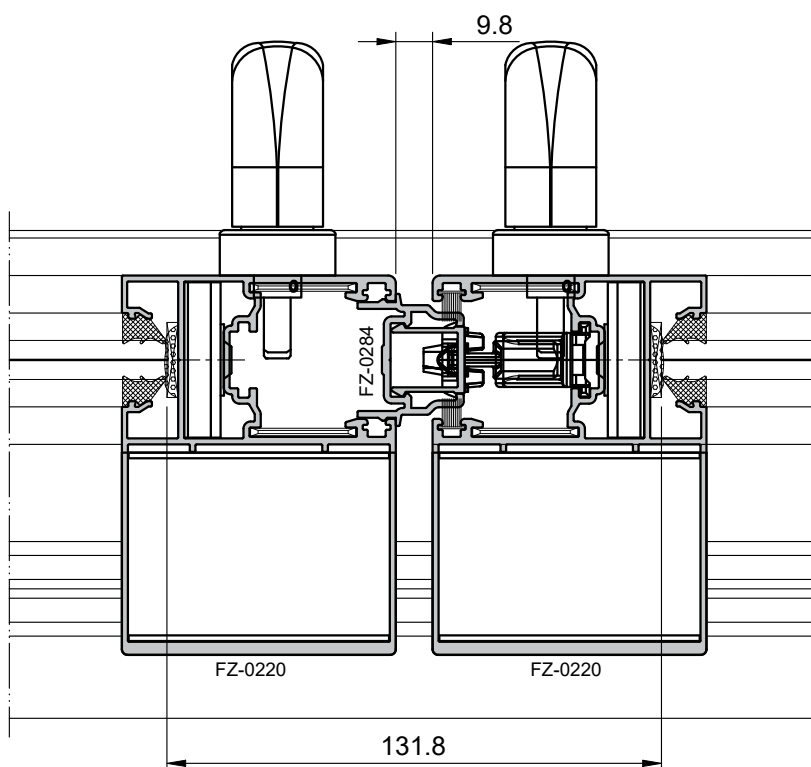
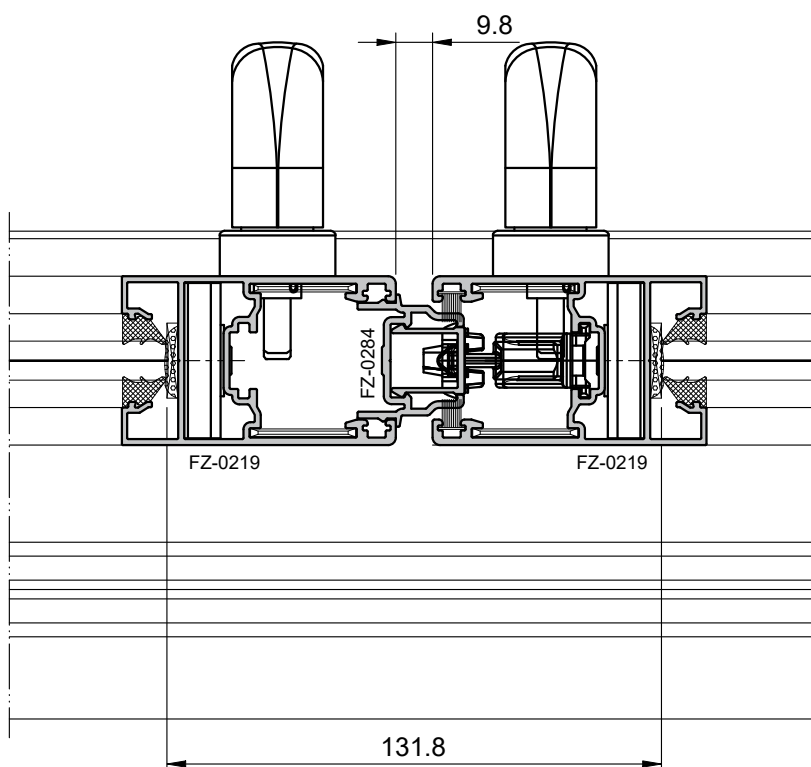
# MÃO DE AMIGO - OPÇÕES DE MONTANTE CORTE 90° PARA 2 PLANOS

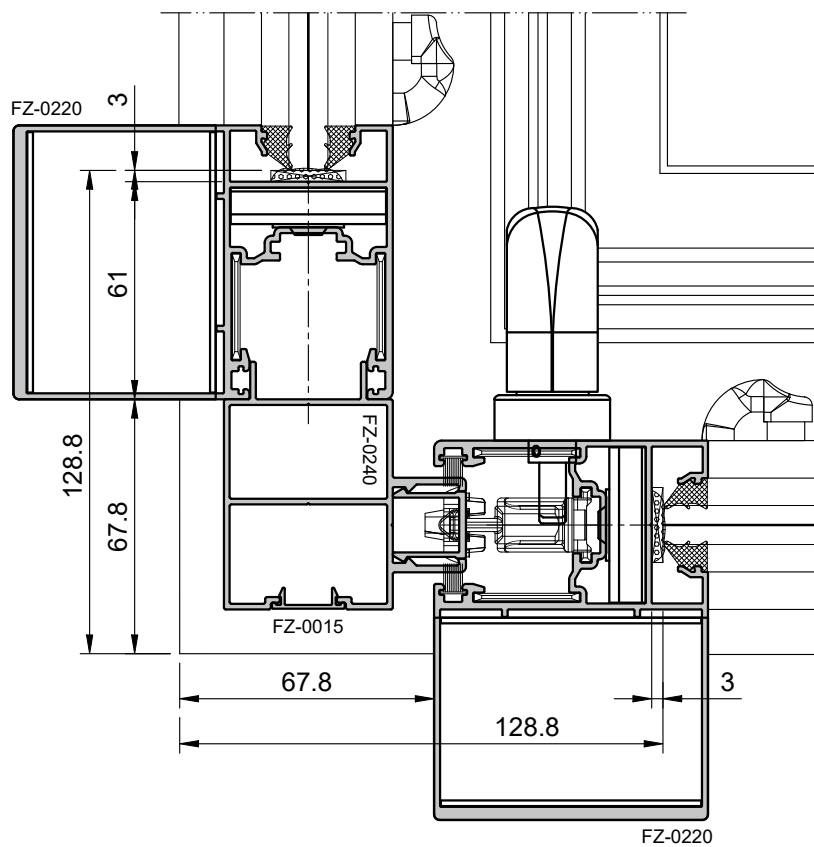
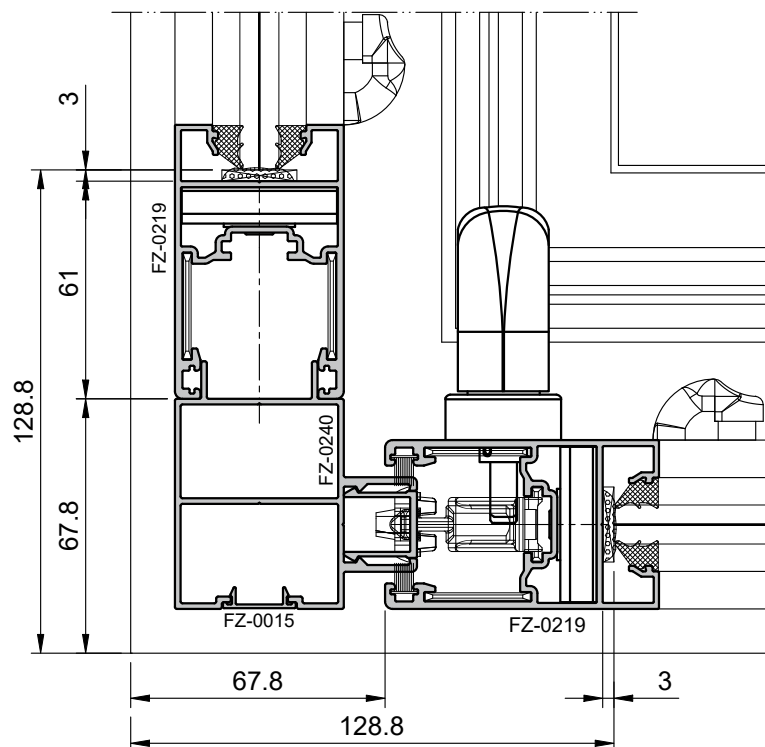


**MÃO DE AMIGO - OPÇÕES DE MONTANTE  
COM CORTE 45° PARA 2 PLANOS**

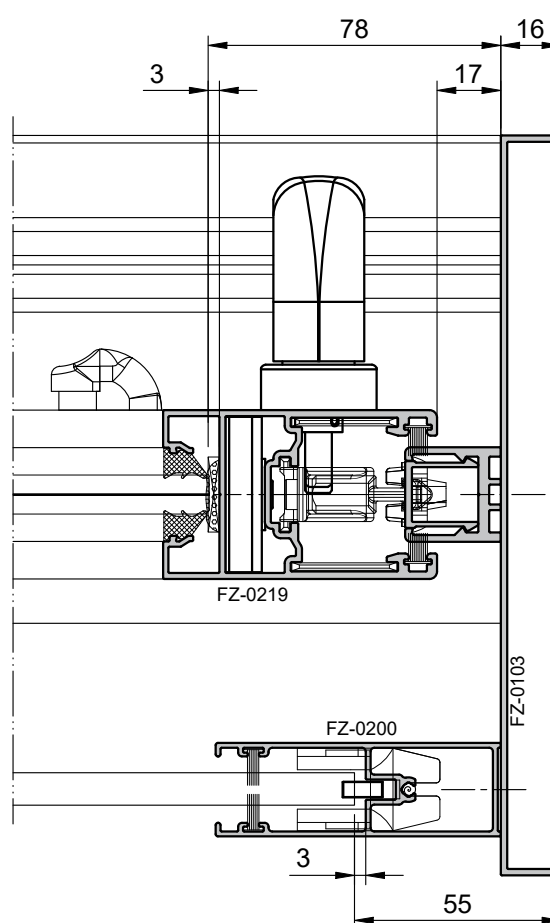
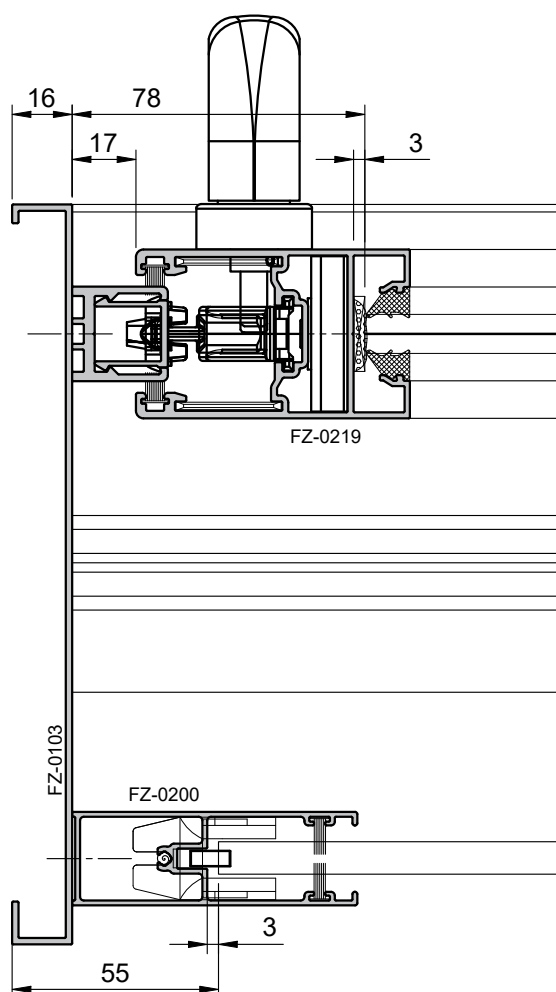


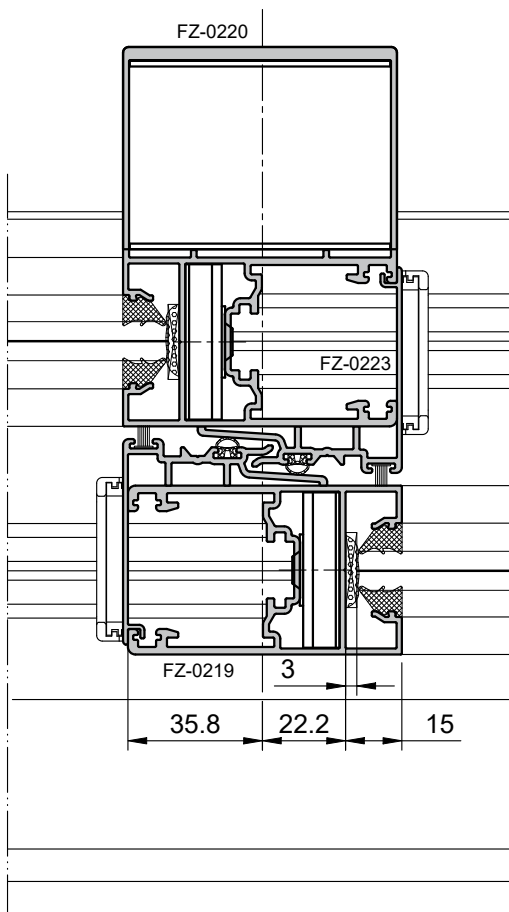
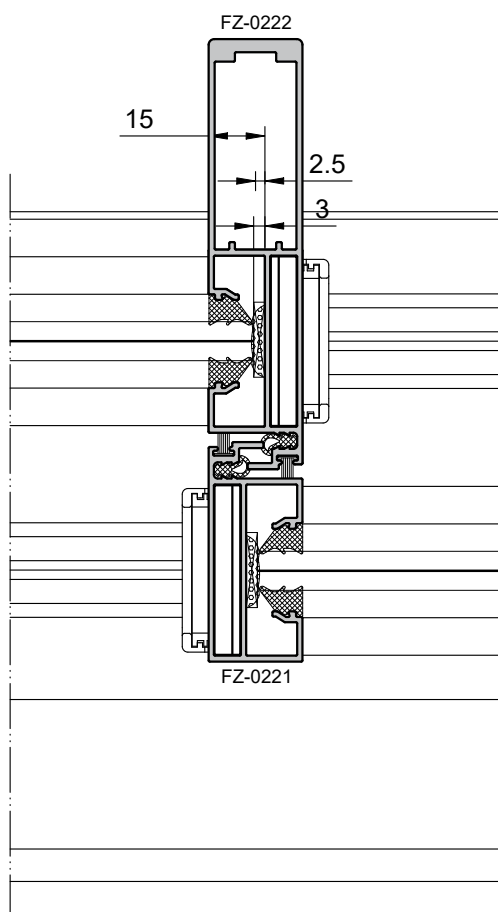
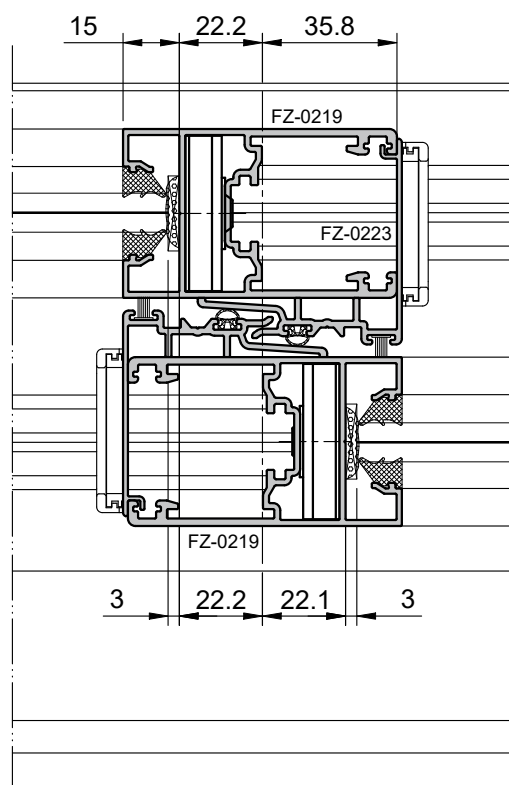
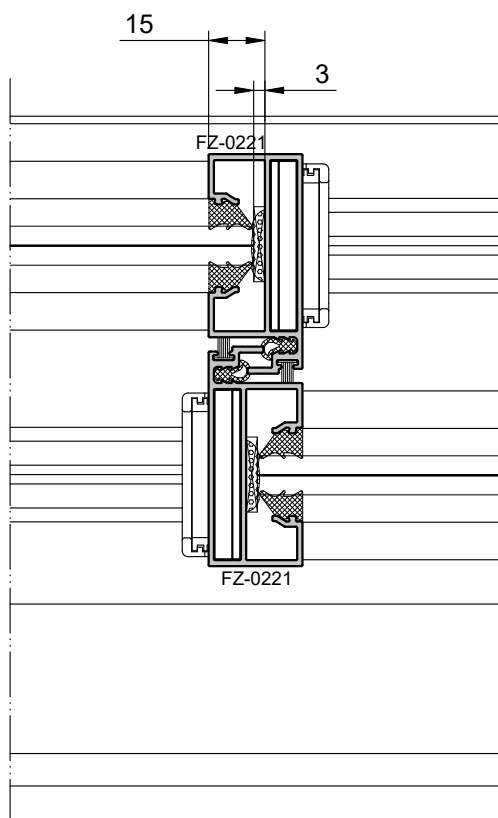
## FECHAMENTO DE CENTRAL - OPÇÕES DE MONTANTE PARA 2 PLANOS



**FECHAMENTO DE CANTO 90º - OPÇÕES  
DE MONTANTE PARA 2 PLANOS**

## FECHAMENTO DE CENTRAL - MONTANTE PARA CAIXA DE PERSIANA INTEGRADA



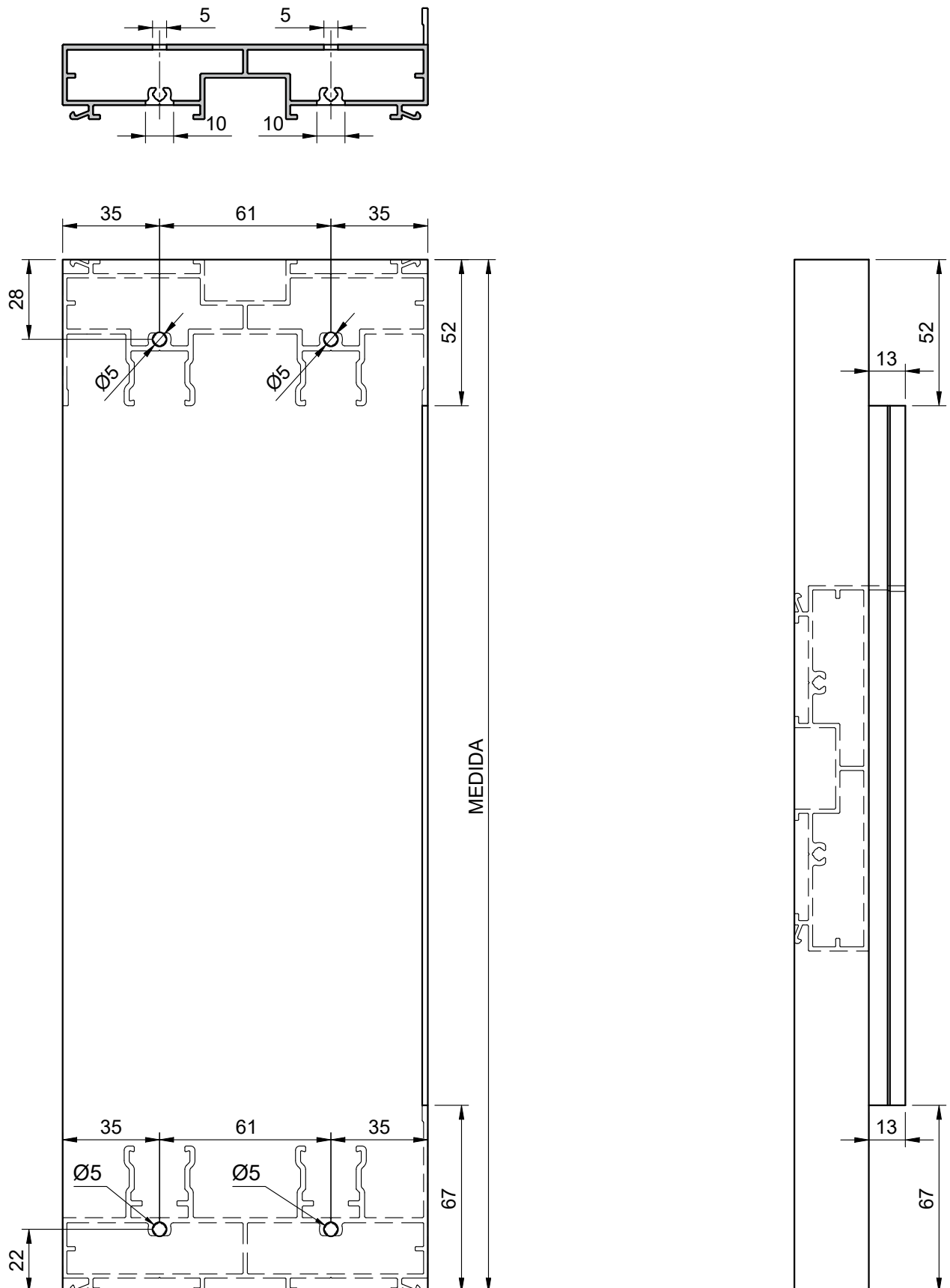
**MÃO DE AMIGO - OPÇÕES DE MONTANTE  
PARA CAIXA DE PERSIANA INTEGRADA**

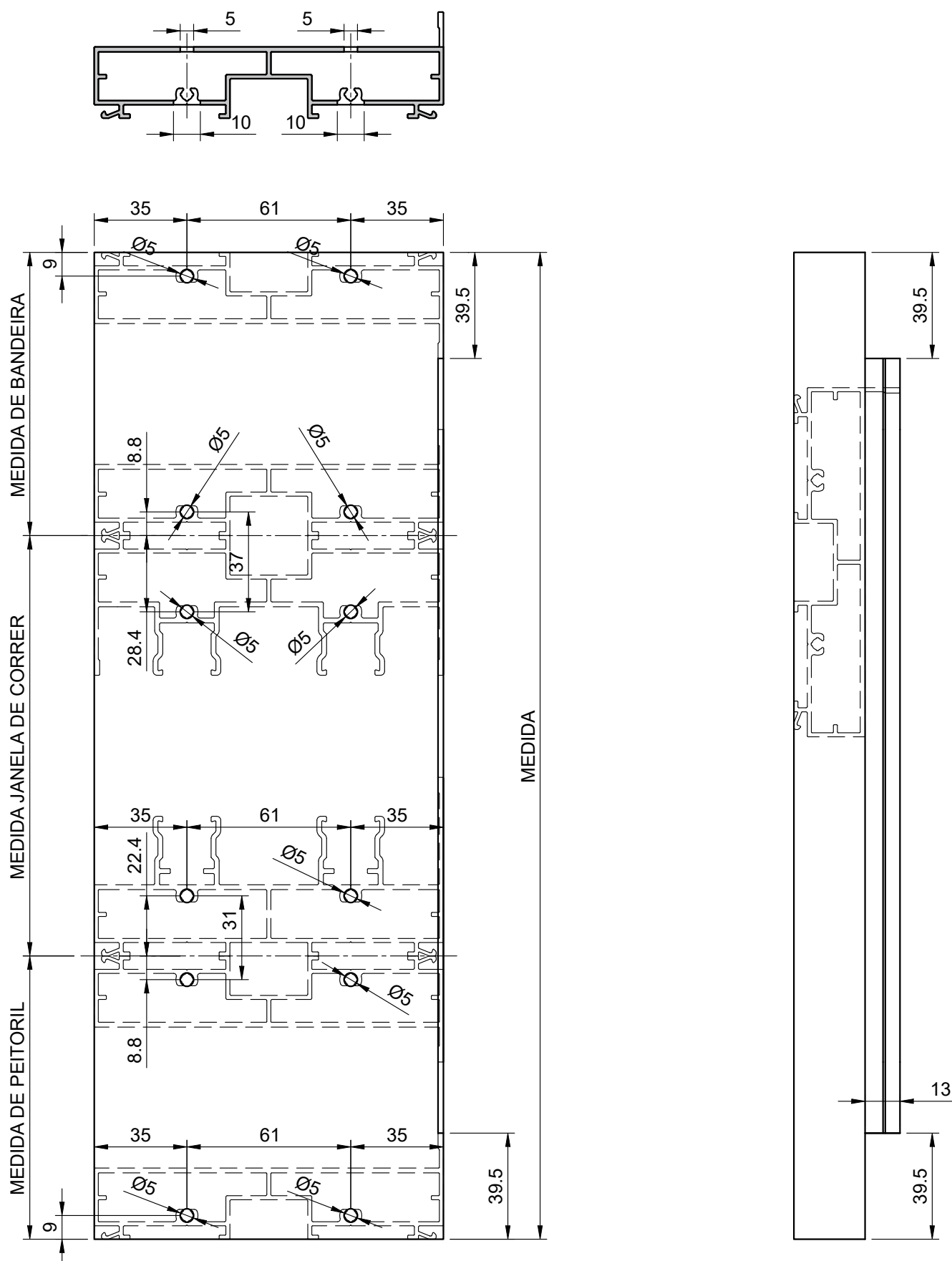
7

# Usinagens

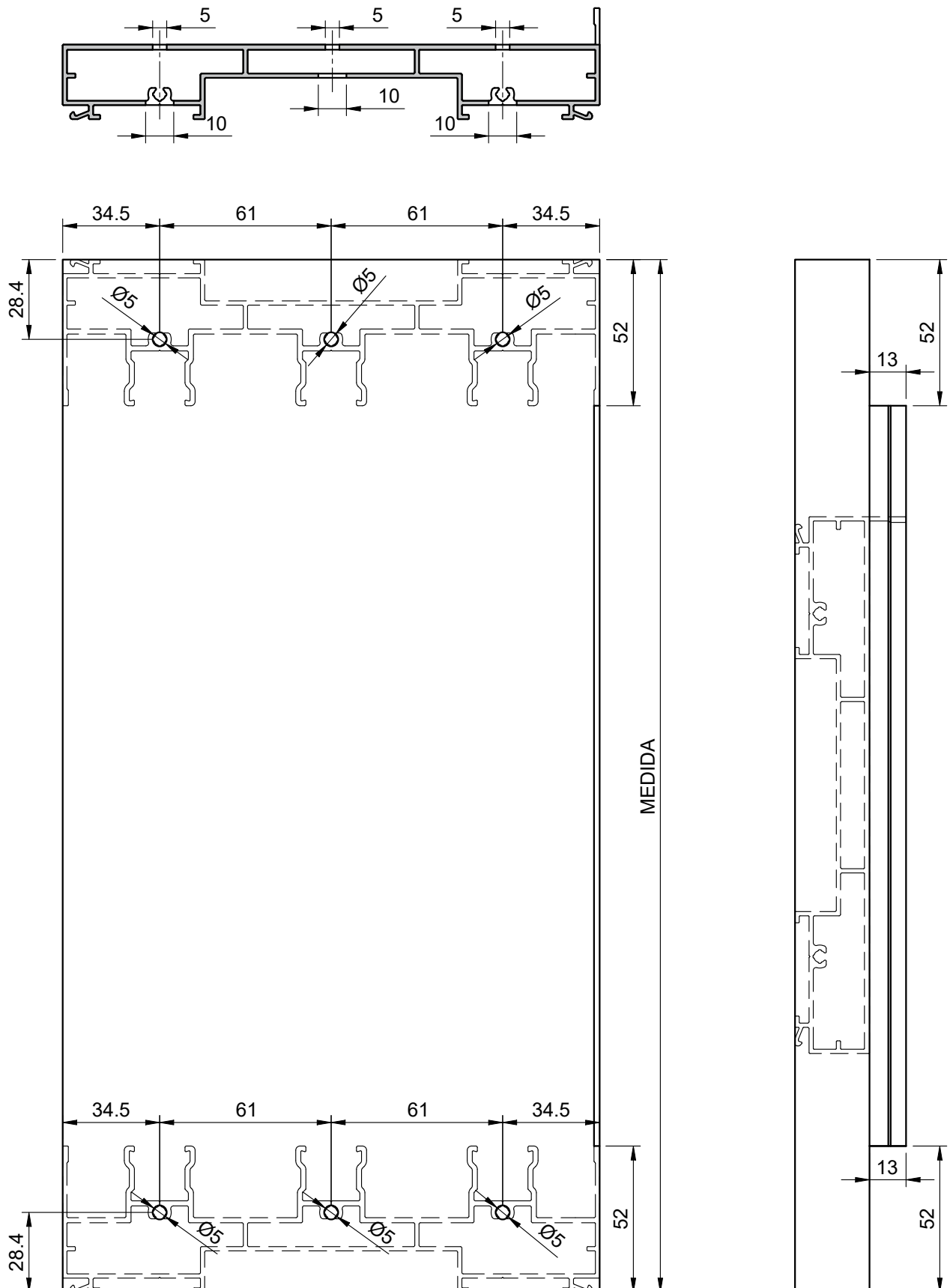
APLICAÇÕES

# **USINAGEM MARCO LATERAL** **2 PLANOS (FZ-0225)**



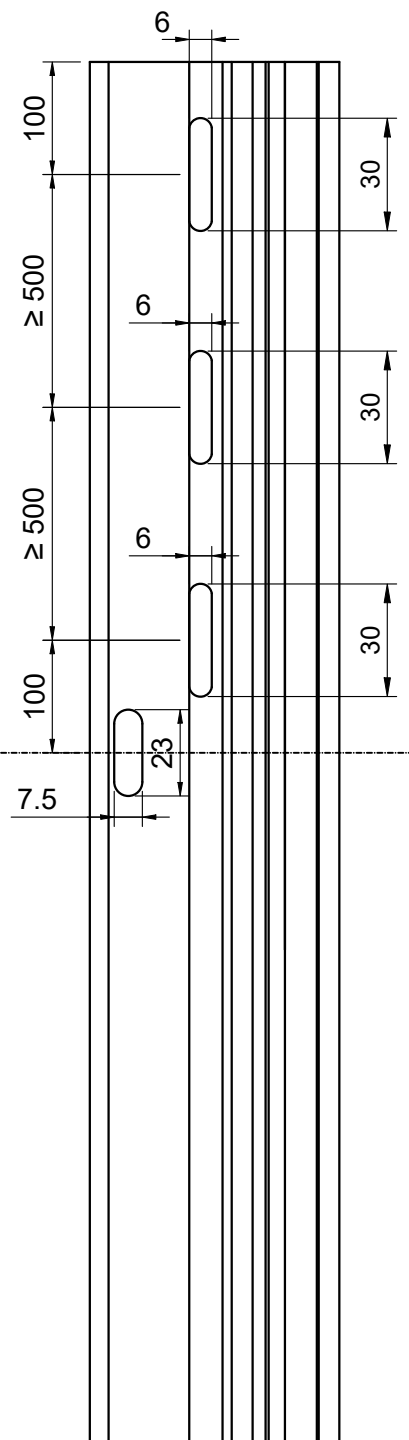
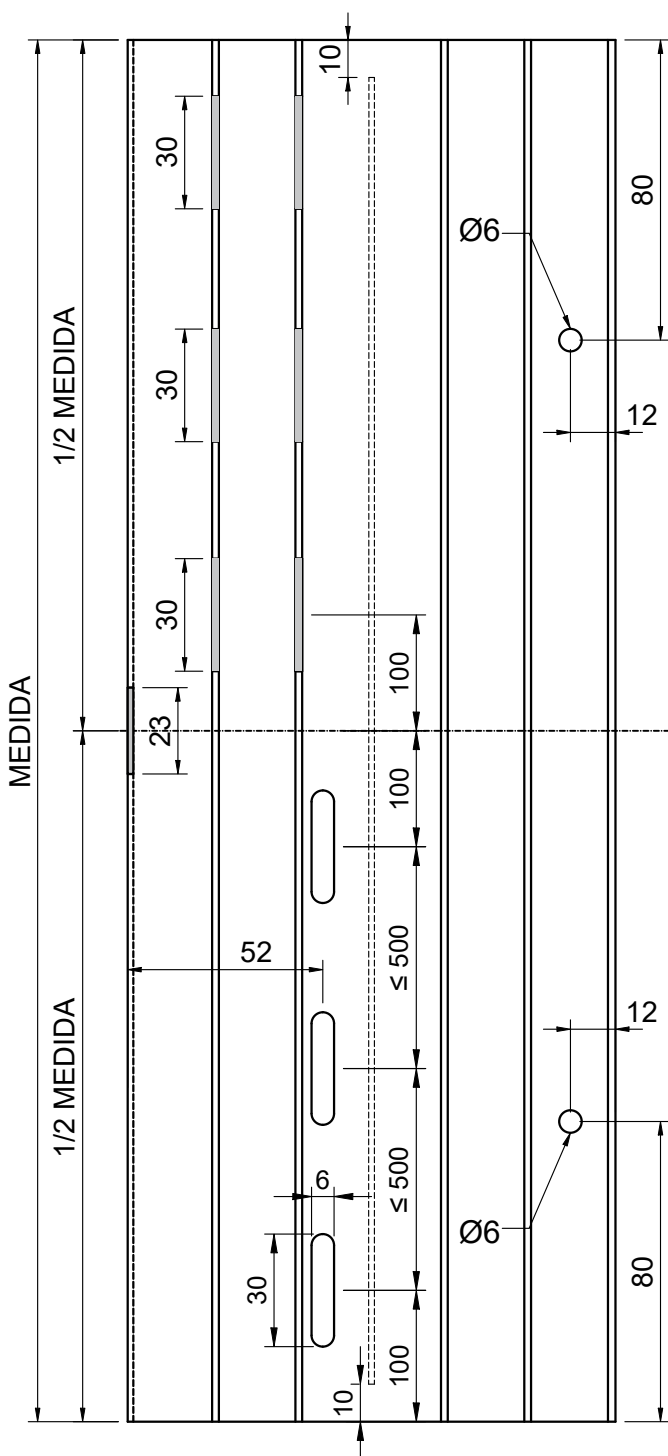
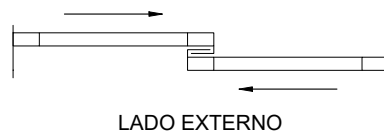
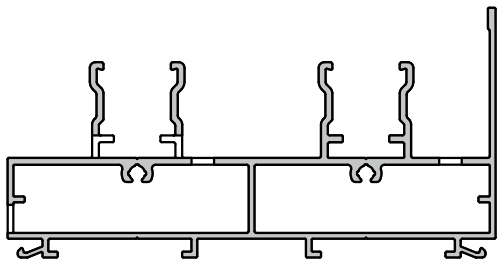
**USINAGEM MARCO LATERAL  
2 PLANOS (FZ-0225)**

# USINAGEM MARCO LATERAL 3 PLANOS (FZ-0239)

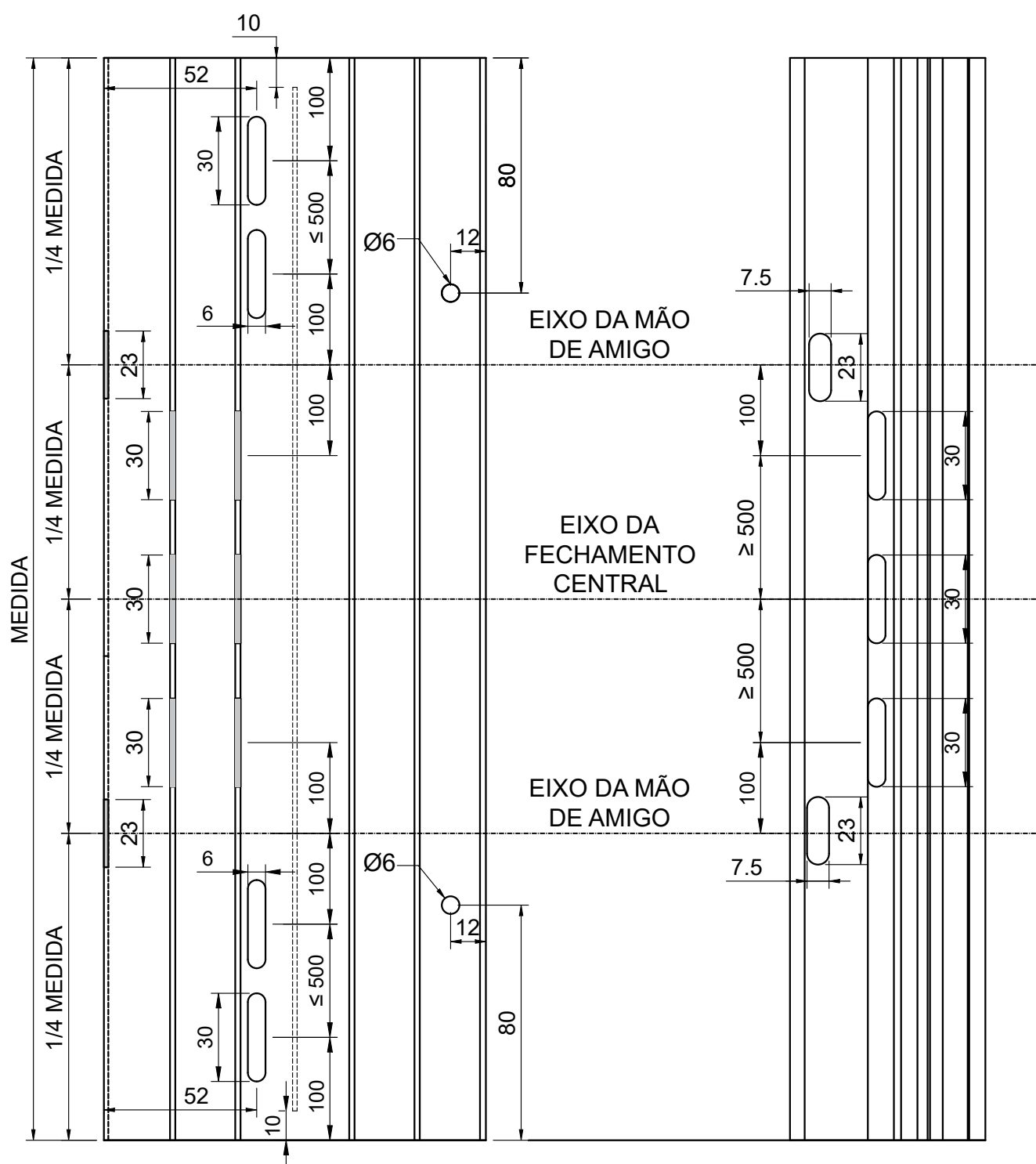
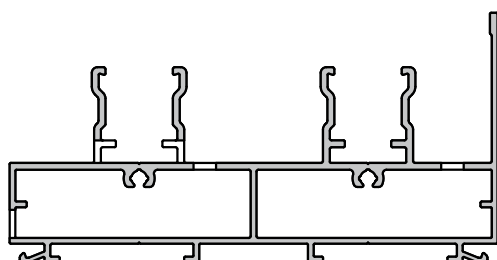




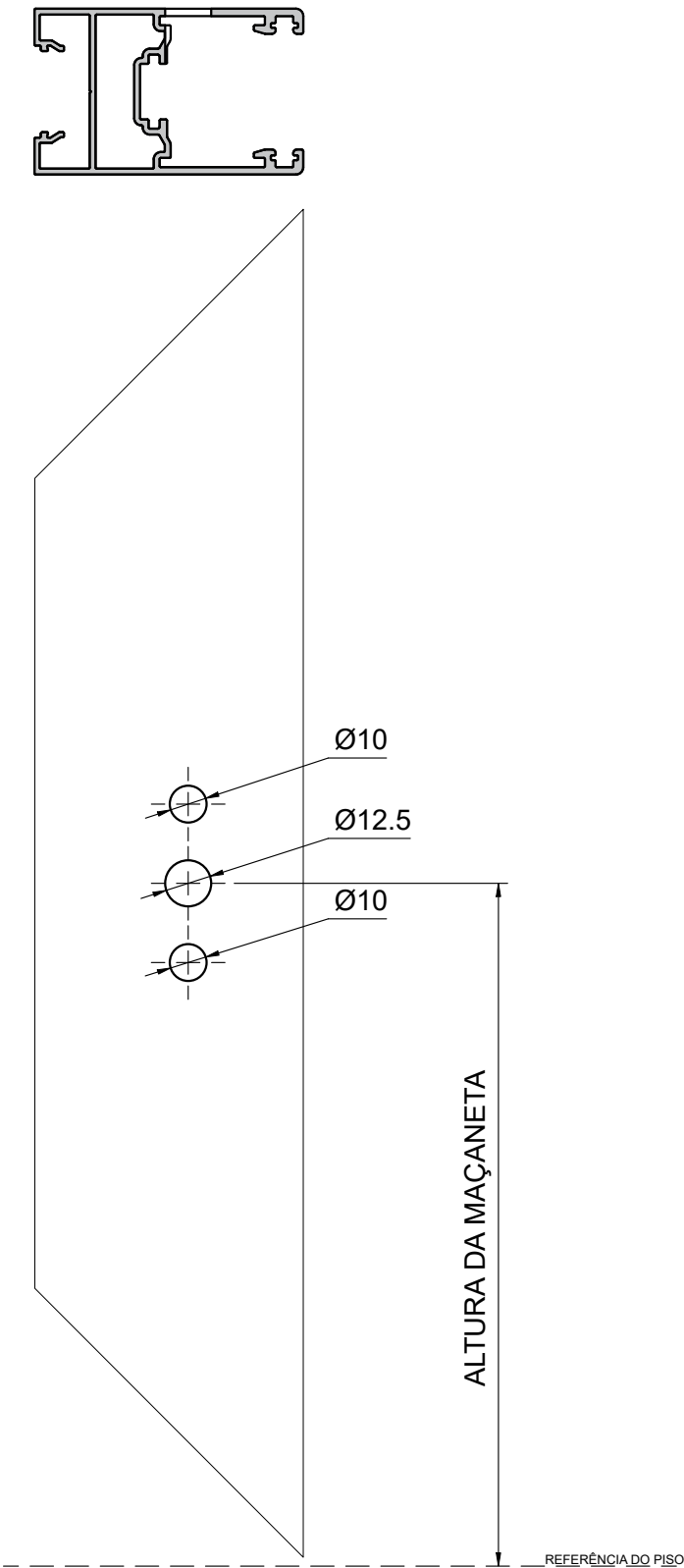
## USINAGEM MARCO INFERIOR 2 PLANOS (FZ-0247)



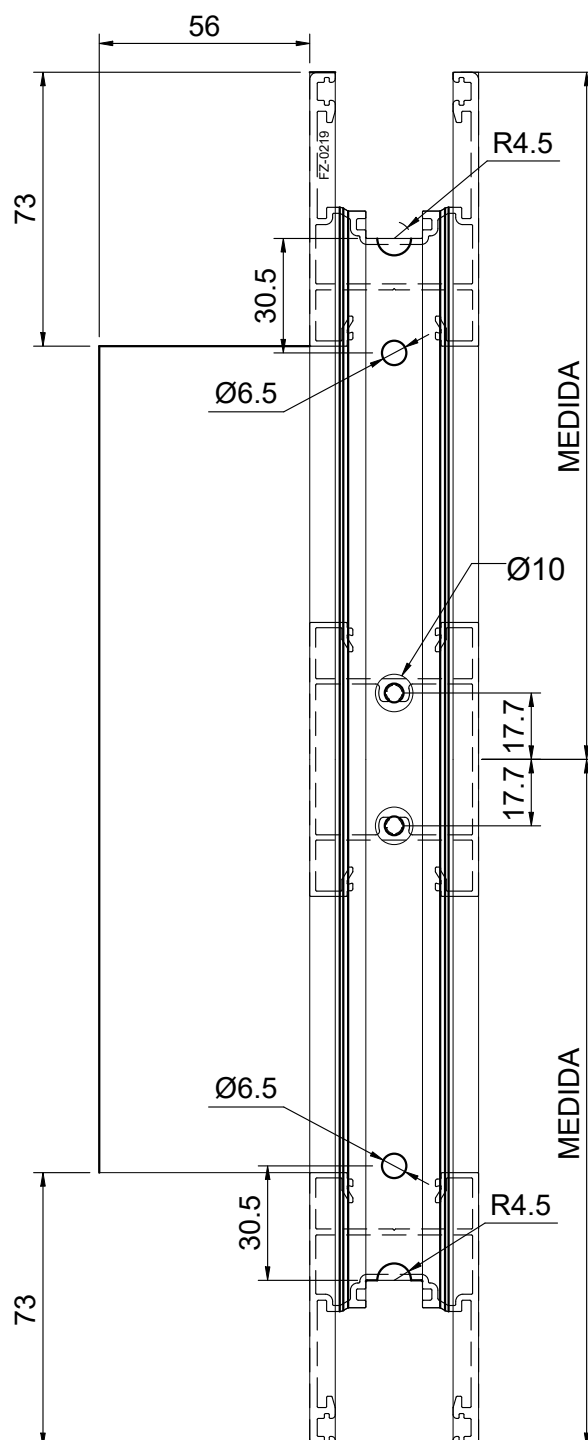
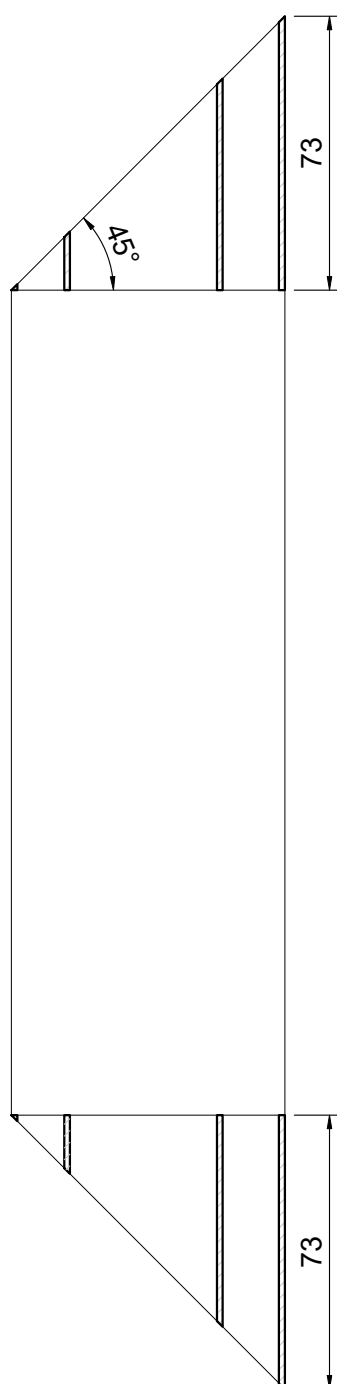
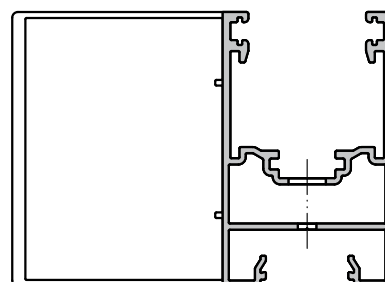
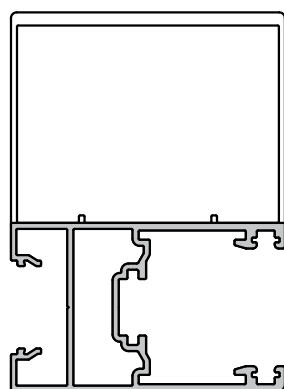
## USINAGEM MARCO INFERIOR 2 PLANOS (FZ-0247)

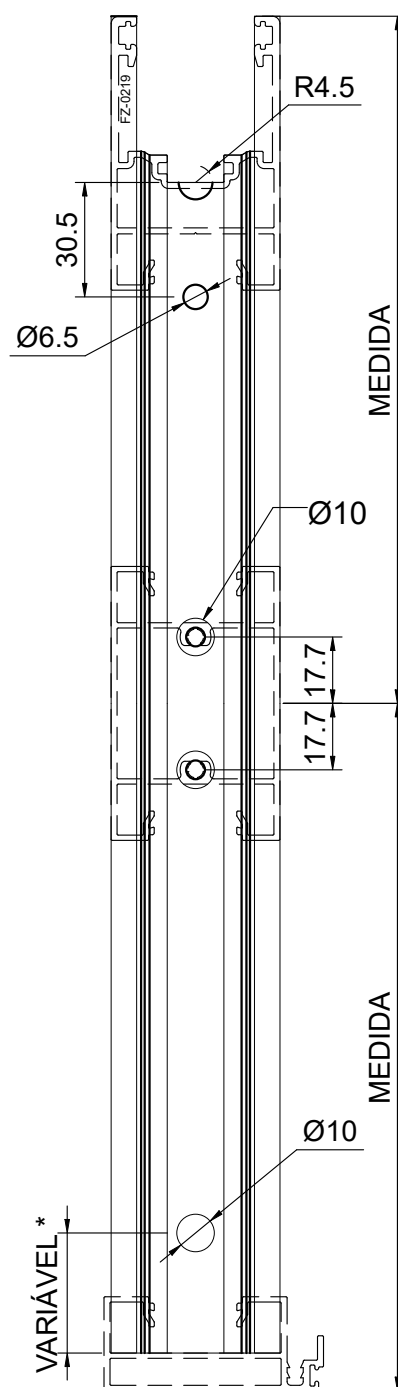
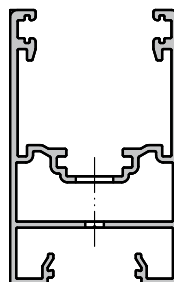


**USINAGEM DO MONTANTE  
(FZ-0219)**



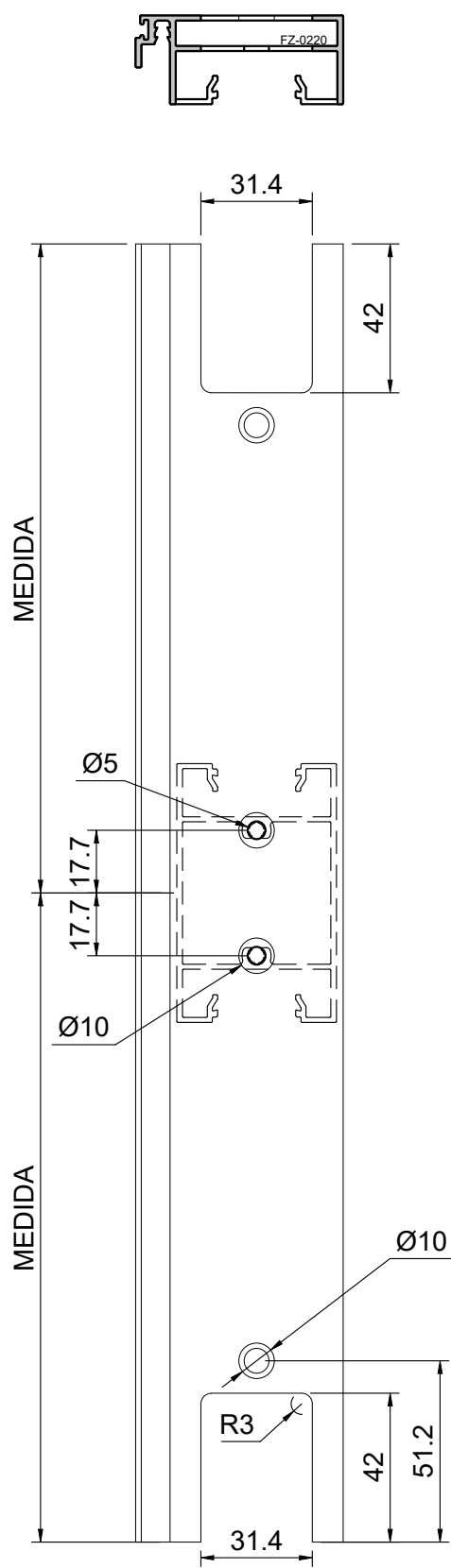
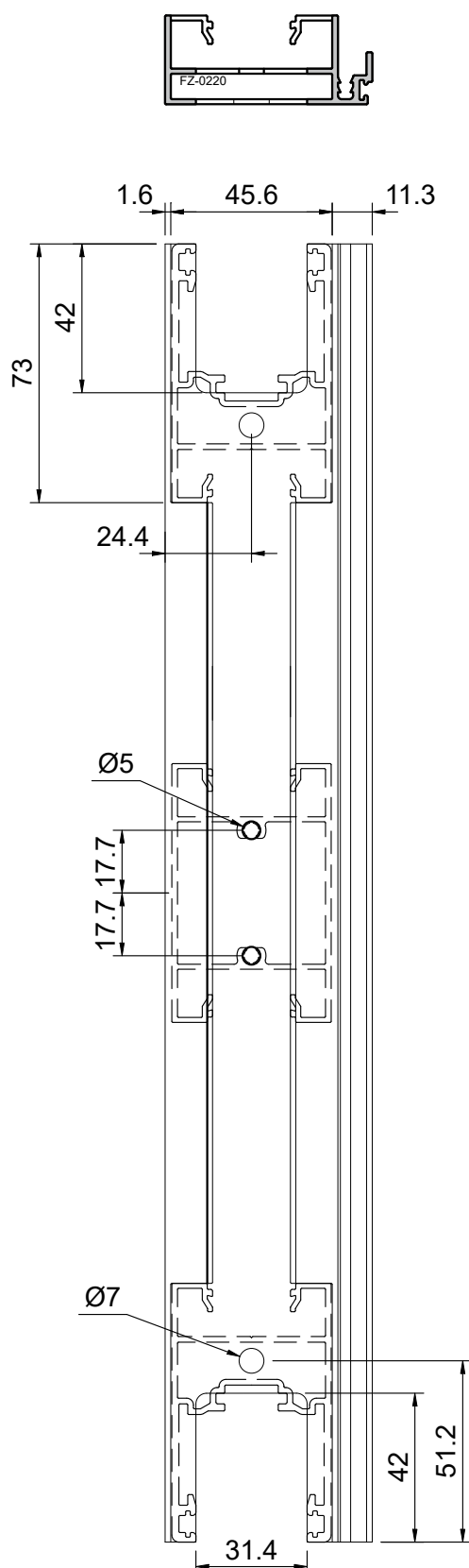
# USINAGEM DO MONTANTE (FZ-0220)



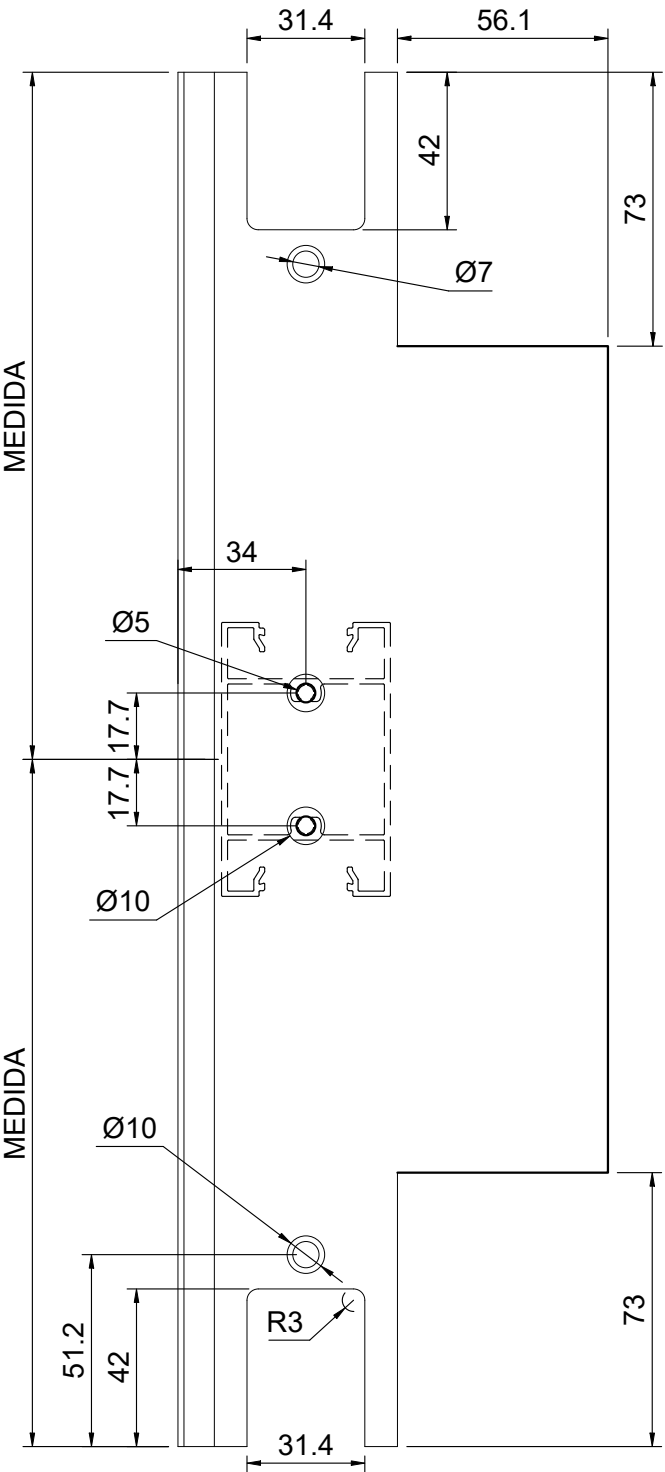
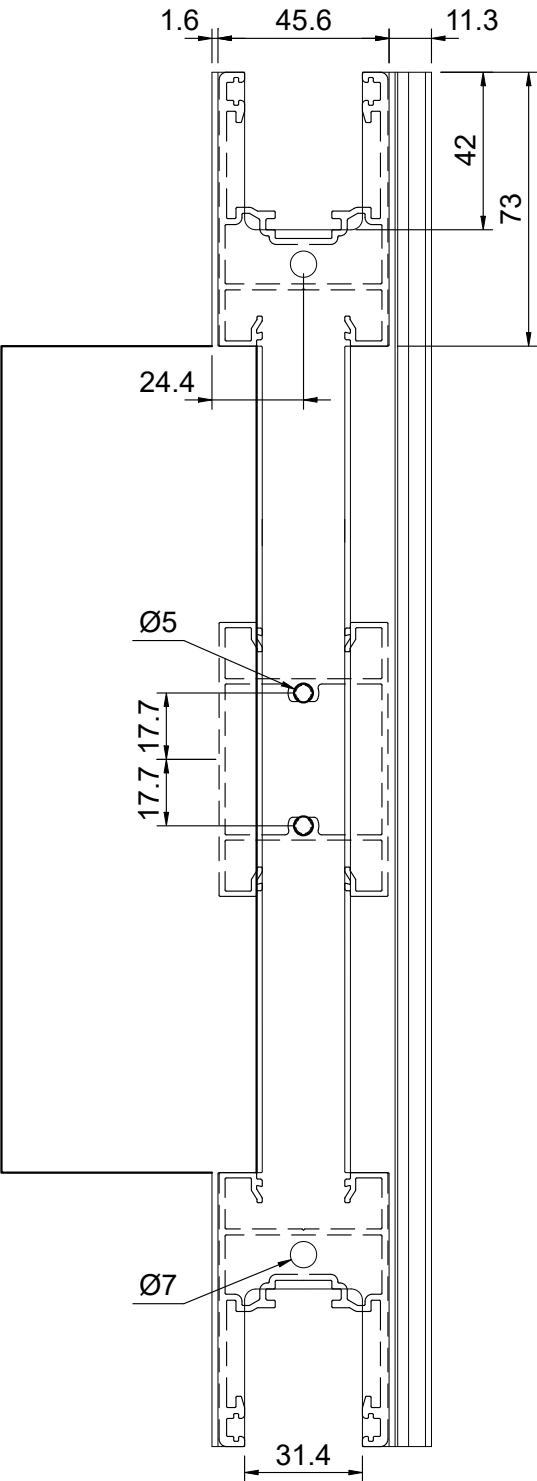
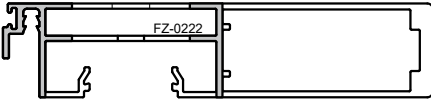
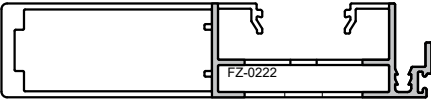
**USINAGEM DO MONTANTE  
(FZ-0219)**

\*CONFORME FORNECEDOR DA CONEXÃO

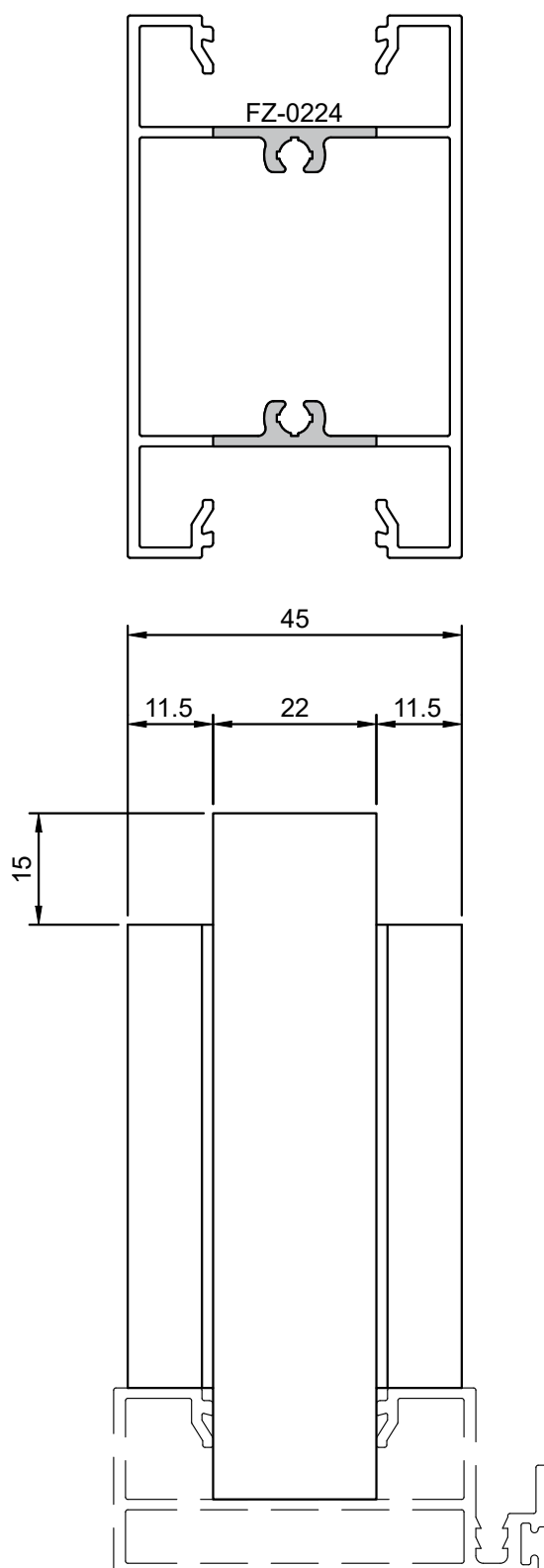
# USINAGEM DO MONTANTE (FZ-0220)



**USINAGEM DO MONTANTE  
(FZ-0222)**

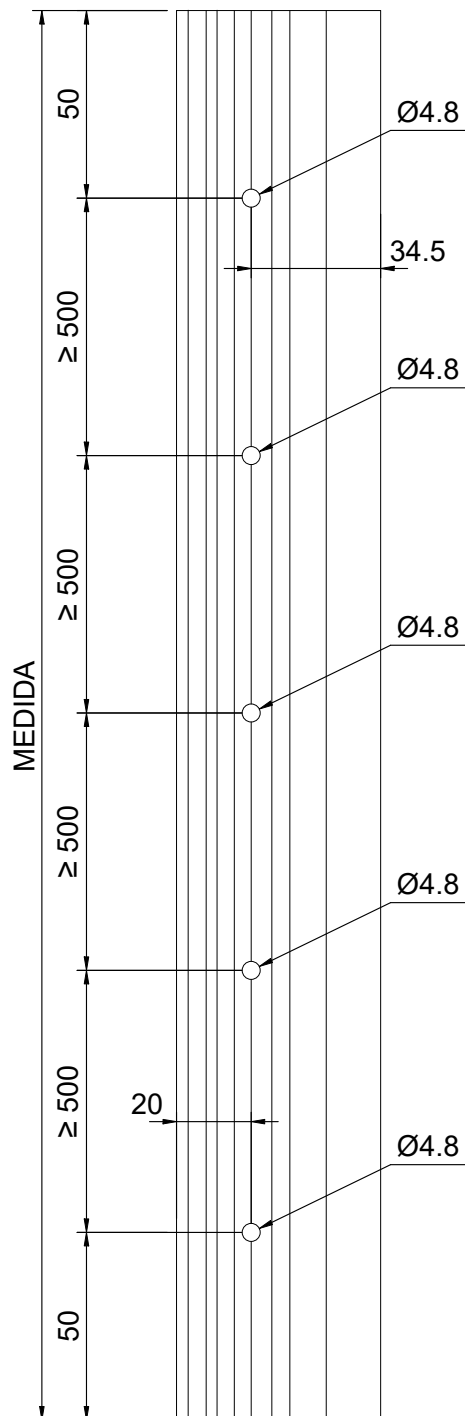
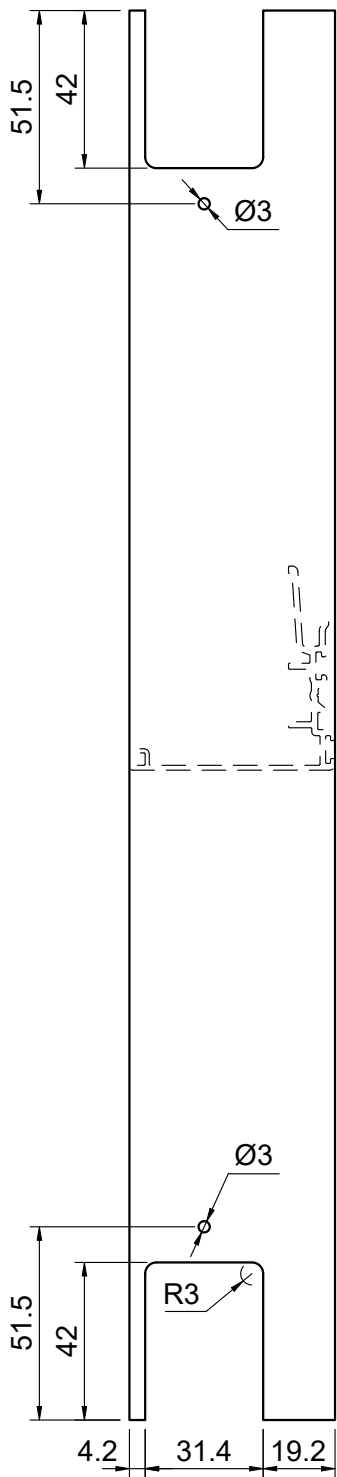
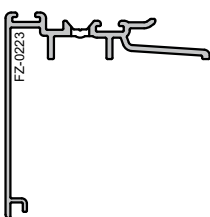
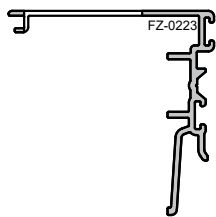


# USINAGEM DAS TRAVESSAS (FZ-0224)

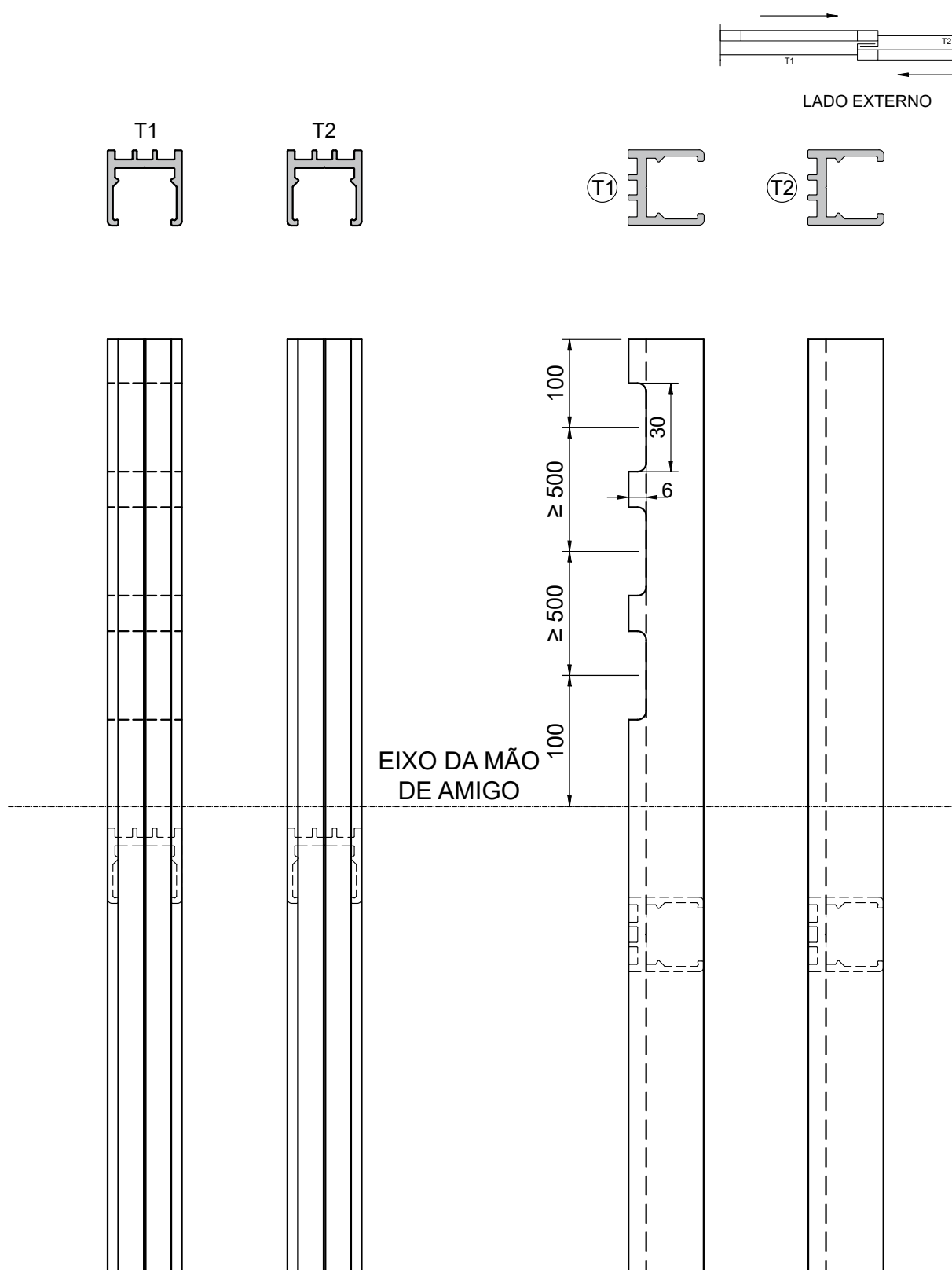




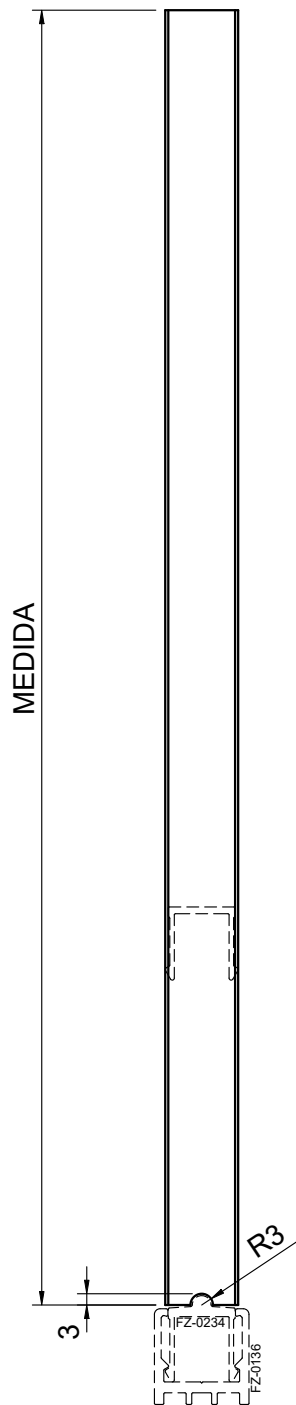
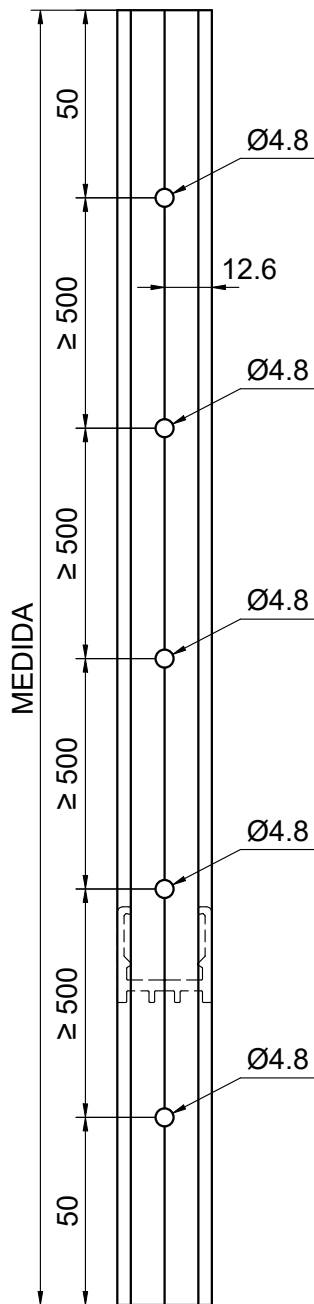
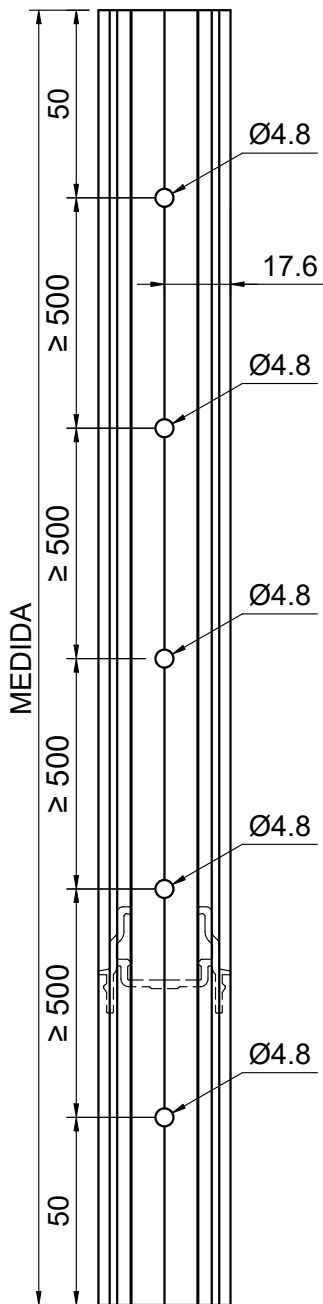
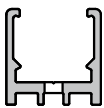
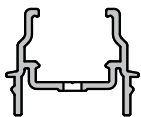
**USINAGEM DA MÃO DE AMIGO  
(FZ-0223)**



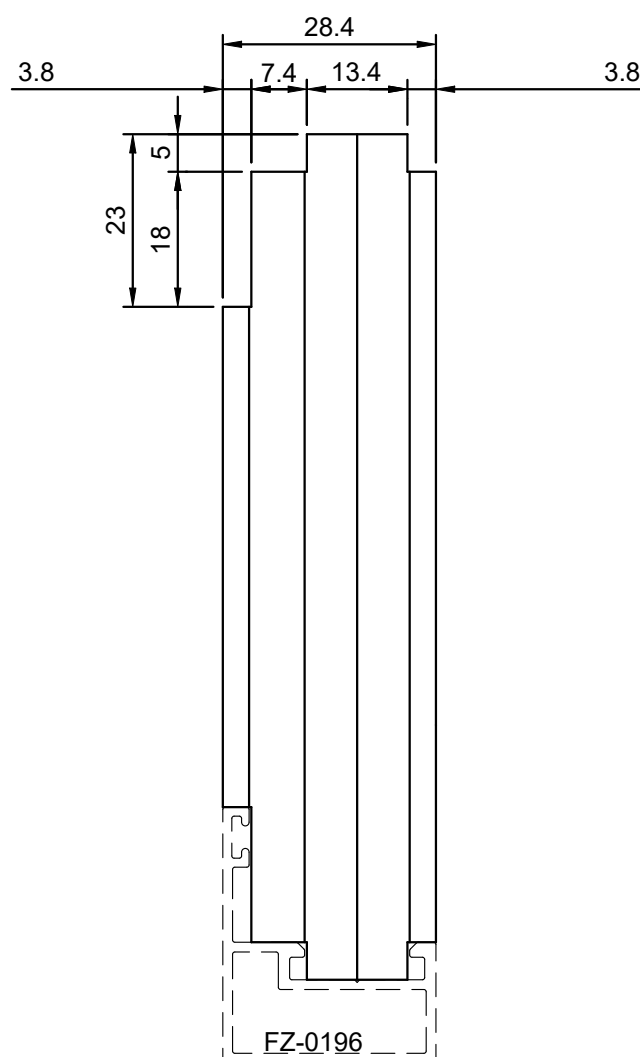
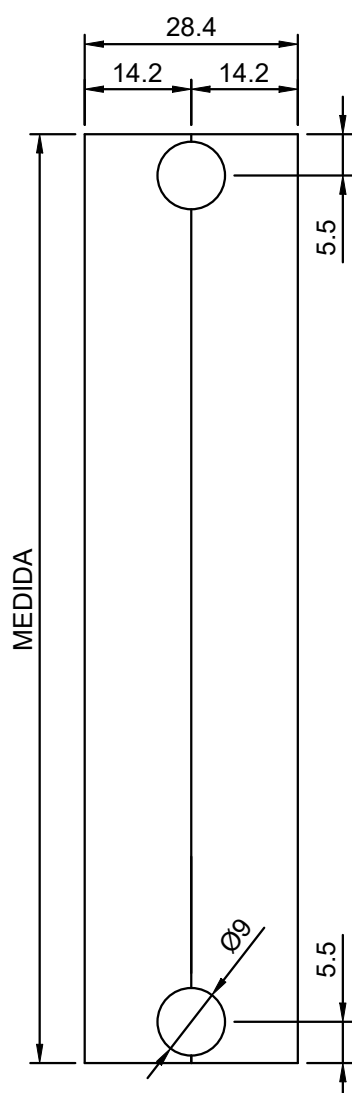
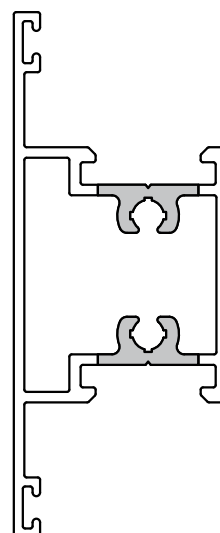
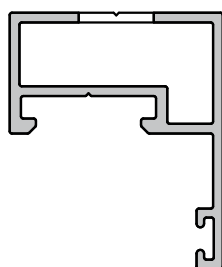
## USINAGEM DE DRENAGEM DO PERFIL FZ-0136

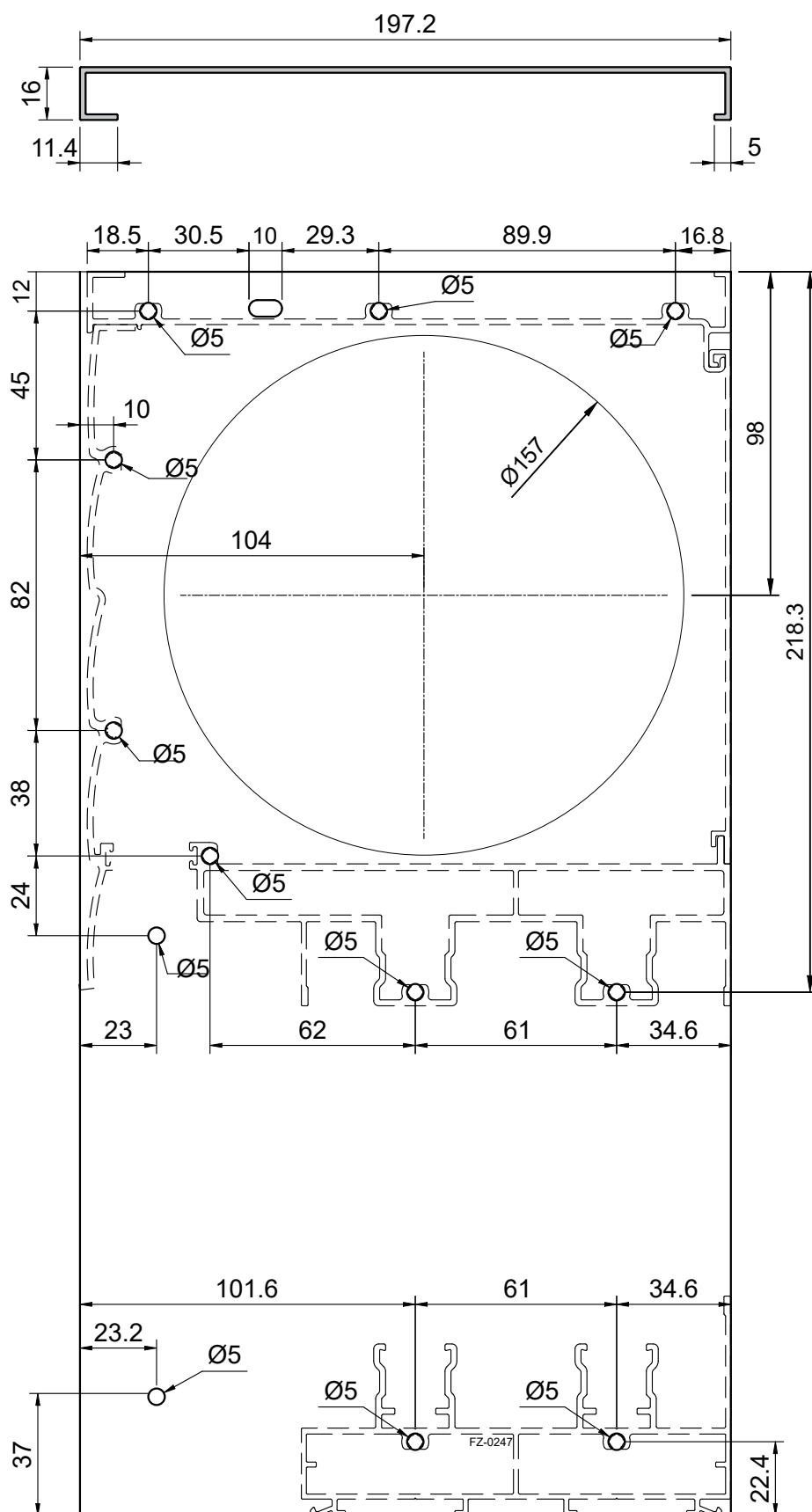


**USINAGEM DE FIXAÇÃO DOS PERFIS**  
**FZ-0284, FZ-0136 E FZ-0235**

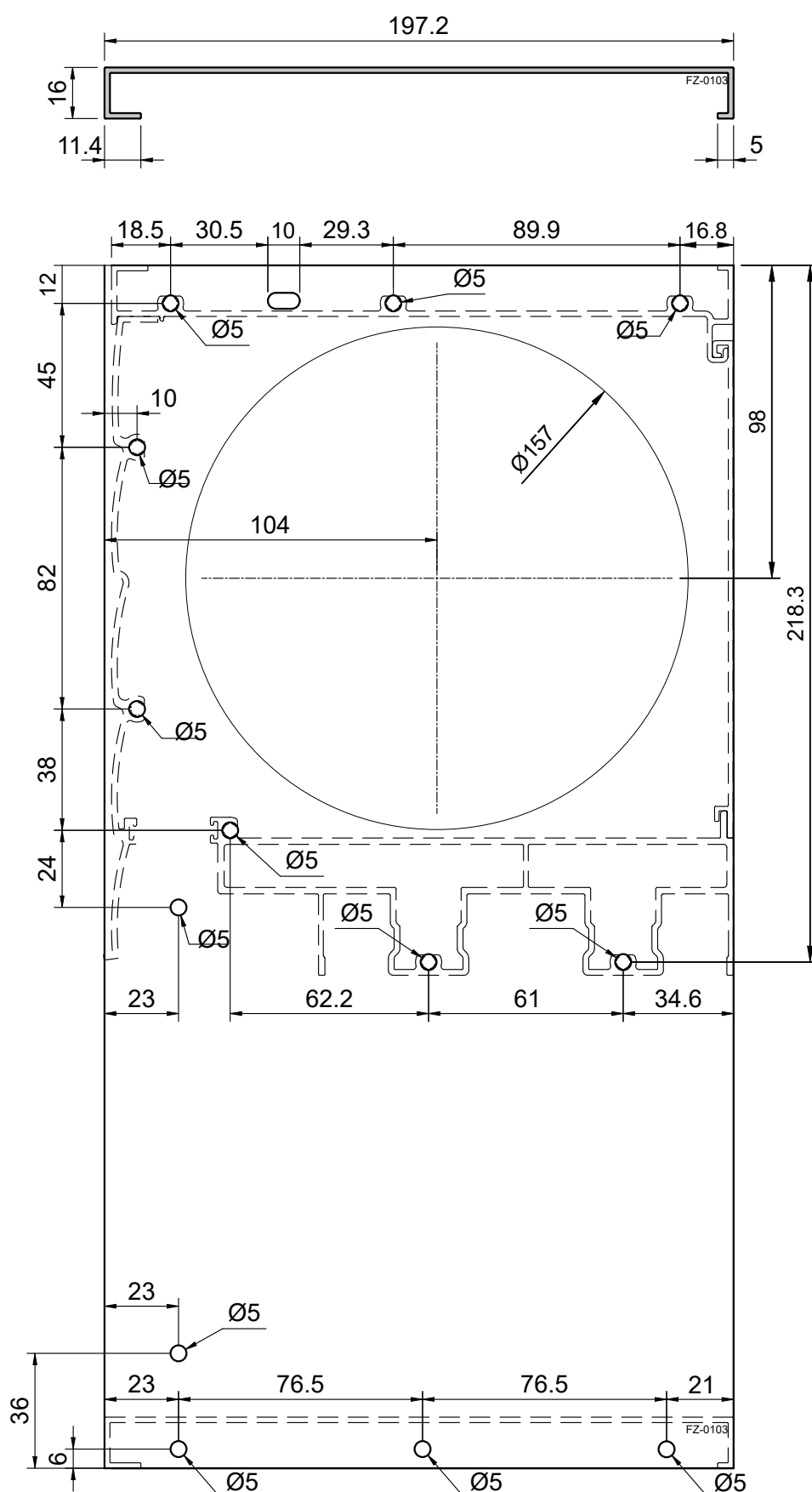


# USINAGEM DE QUADRO FIXO E TRAVESSA (FZ0196 E FZ0203)

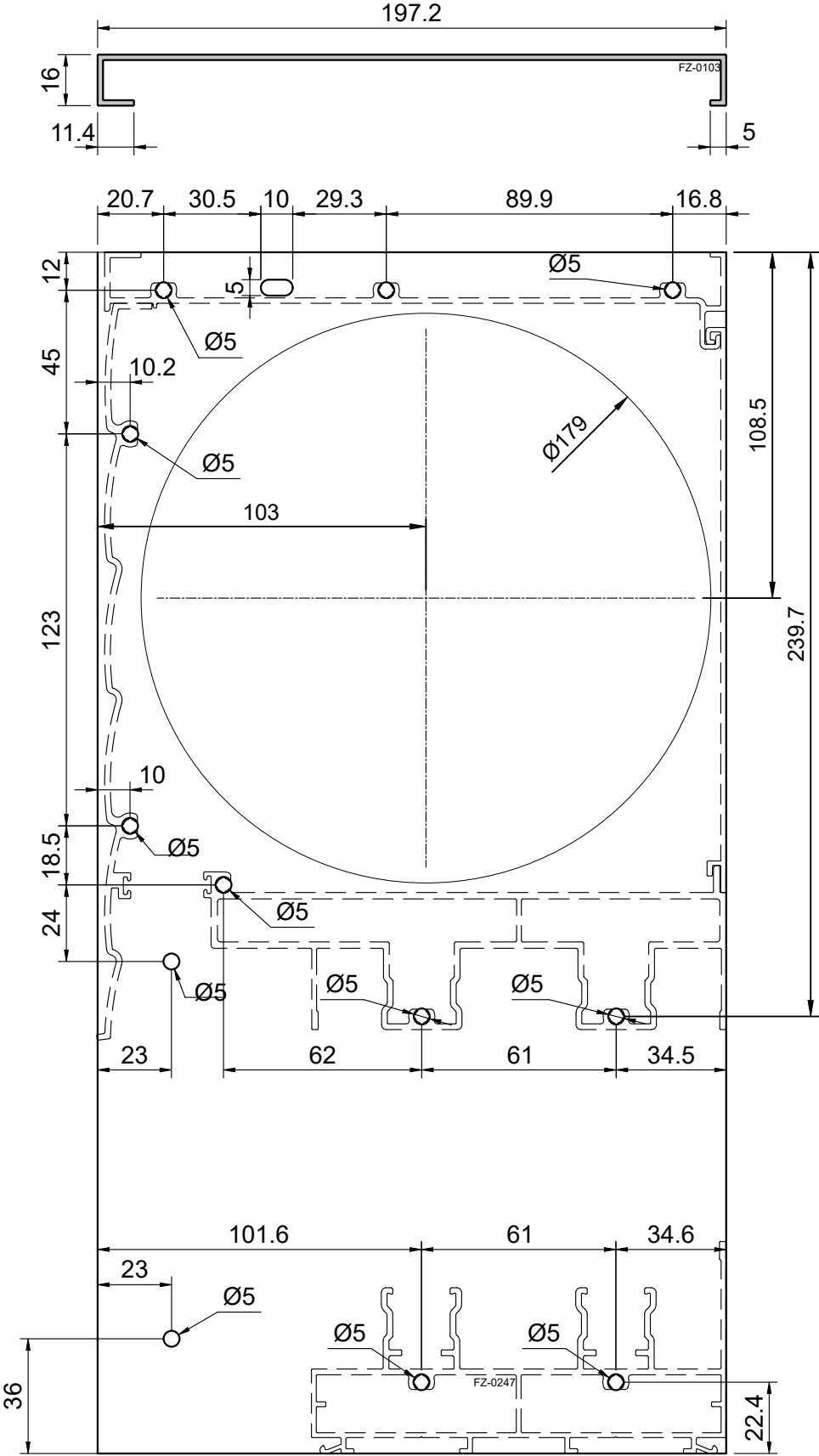


**USINAGEM DO MARCO LATERAL DA  
PERSIANA INTEGRADA 195MM (FZ-0103)**

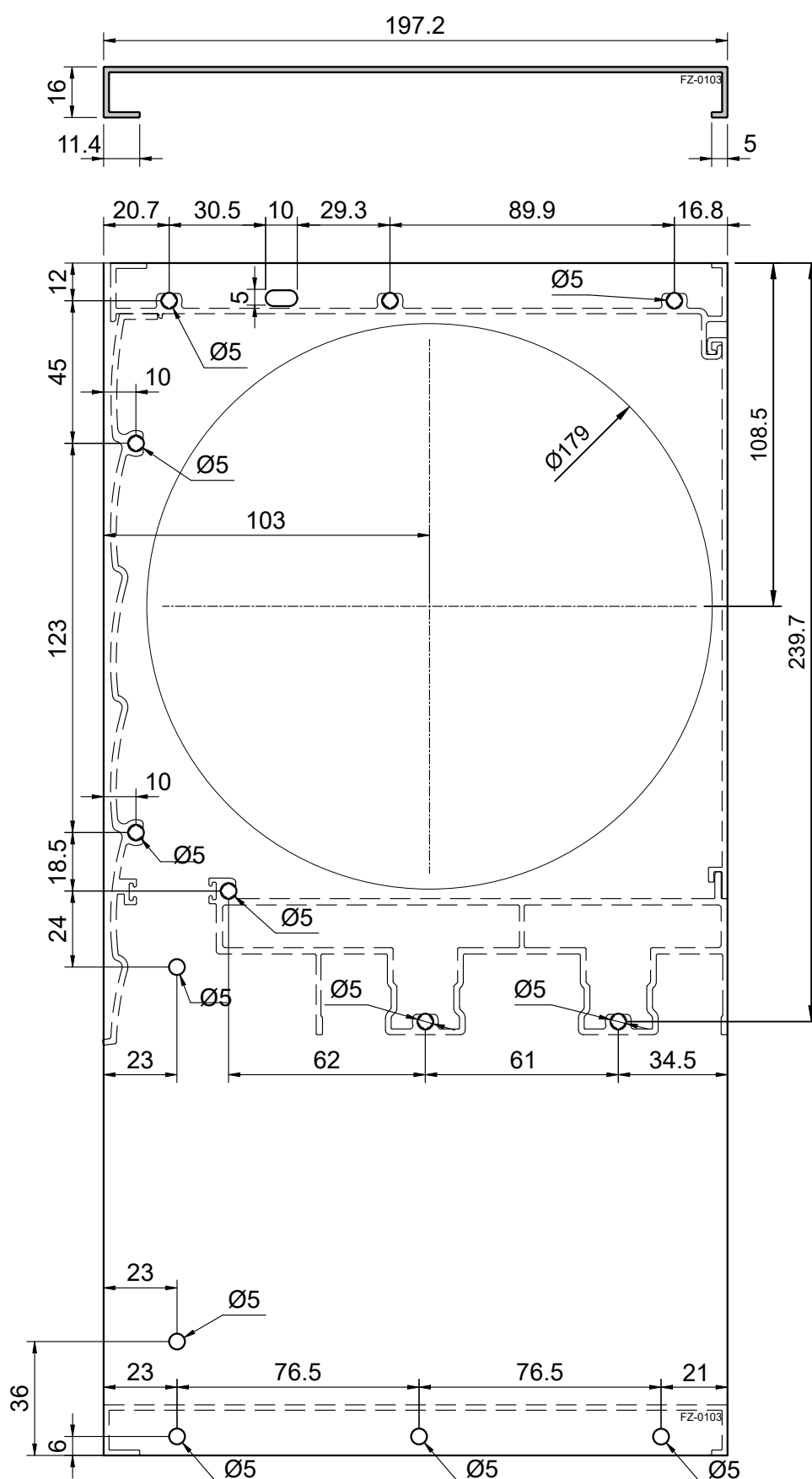
# **USINAGEM DO MARCO LATERAL DA PERSIANA INTEGRADA 195MM (FZ-0103)**



**USINAGEM DO MARCO LATERAL DA  
PERSIANA INTEGRADA 195MM (FZ-0103)**

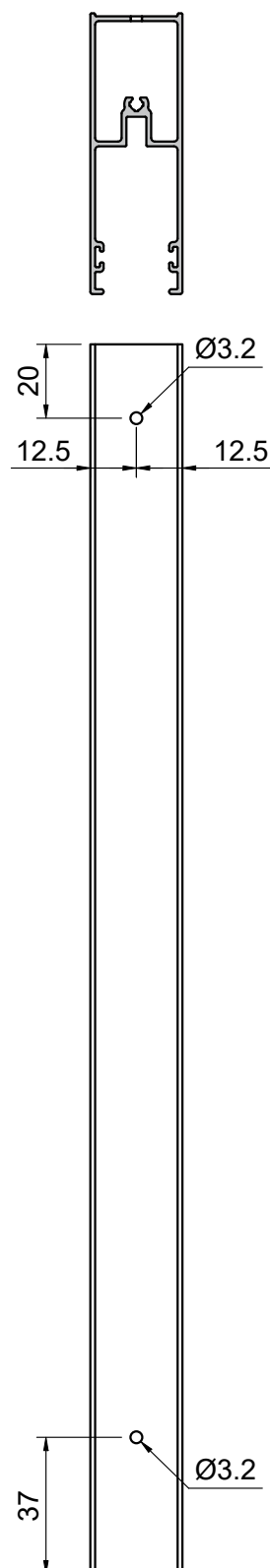


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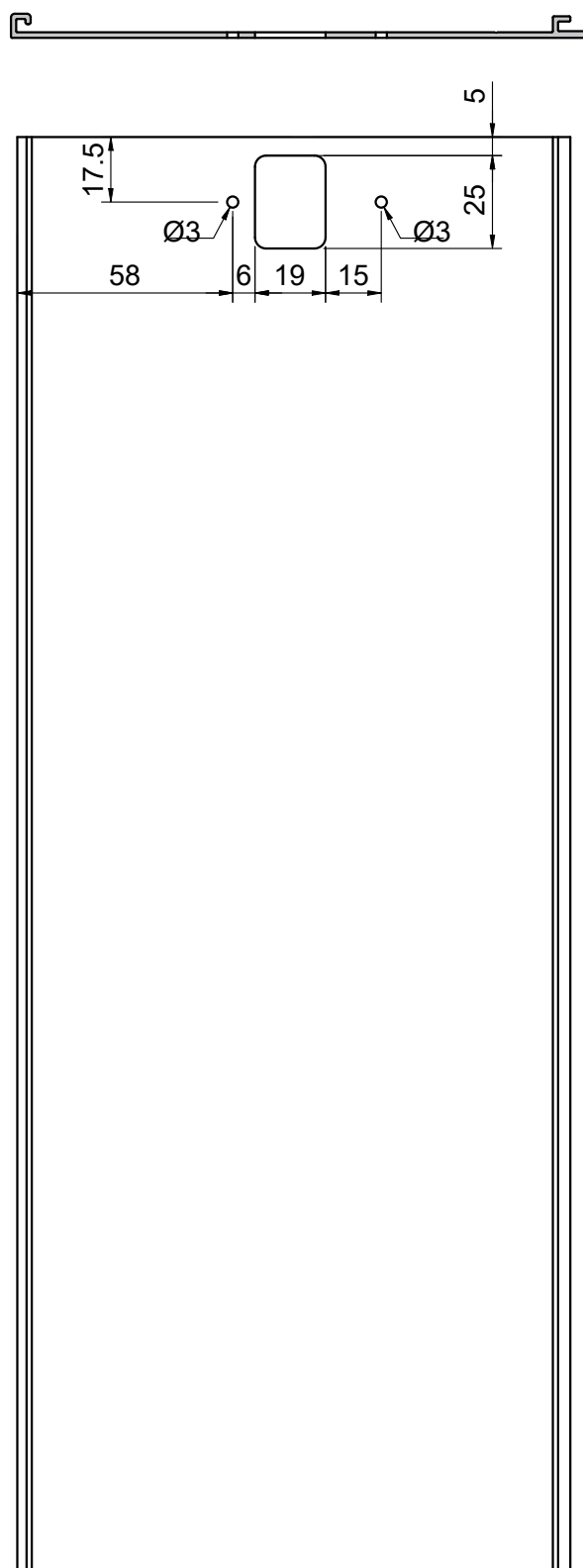




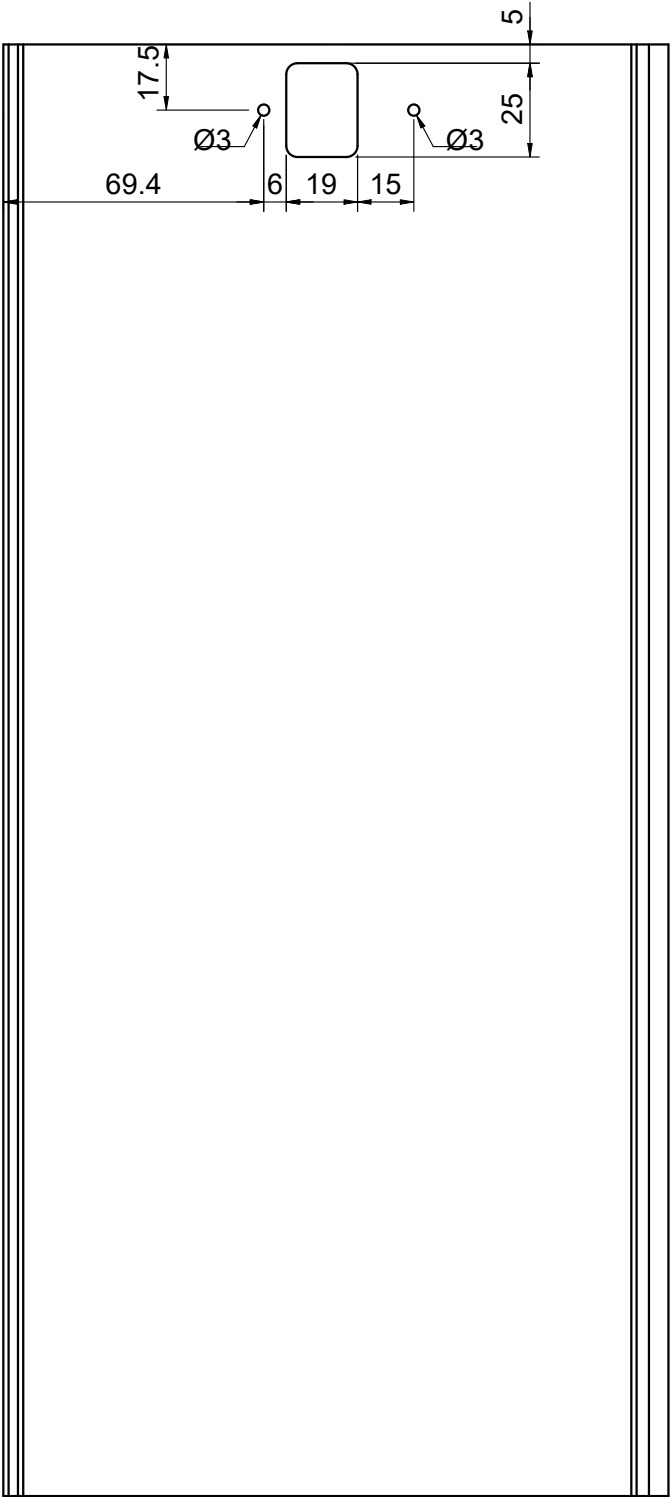
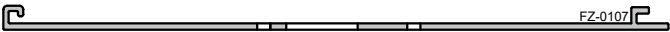
**USINAGEM DO GUIA DA  
ESTEIRA (FZ-0200)**



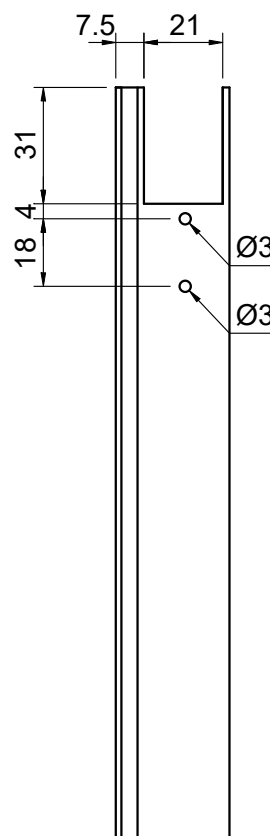
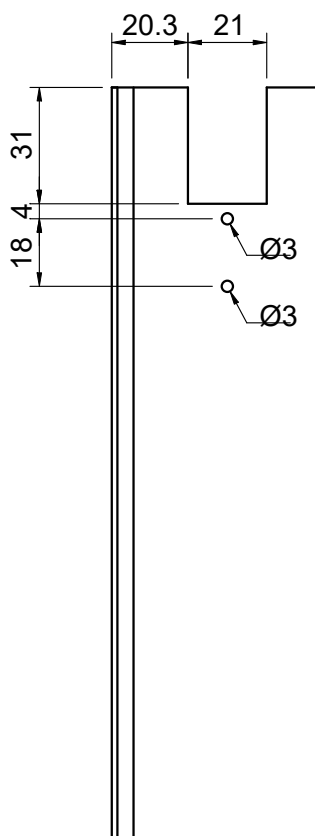
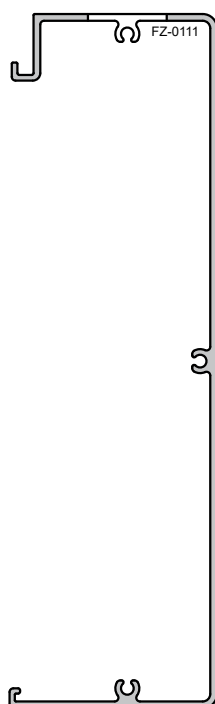
# USINAGEM DAS TAMPA INTERNA (FZ-0114)



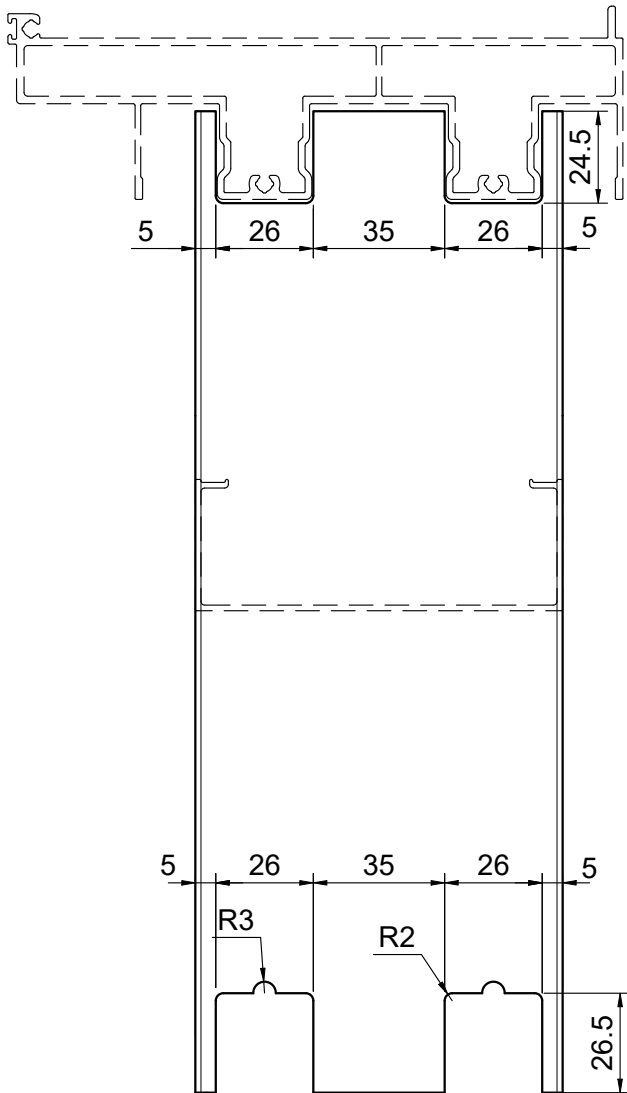
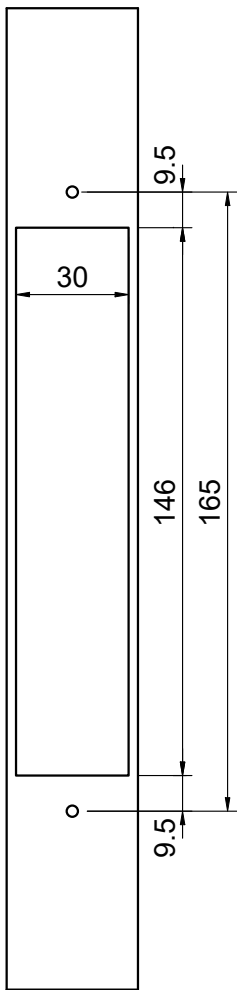
**USINAGEM DA TAMPA  
INTERNA (FZ-0107)**



## USINAGEM DAS TAMPAS INTERNAS (FZ-0111 E FZ-0115)



**USINAGEM DA CAIXA  
DO RECOLHEDOR (MN-050)**





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