

Desde 1986
aluminorte
alumínio e acessórios

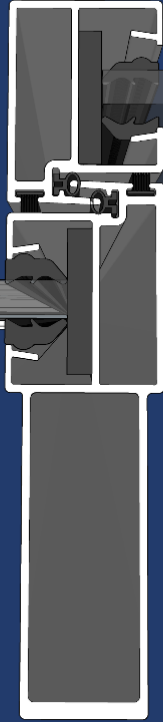
Soluções para
alumínio desde
1986

SPISIS[®]

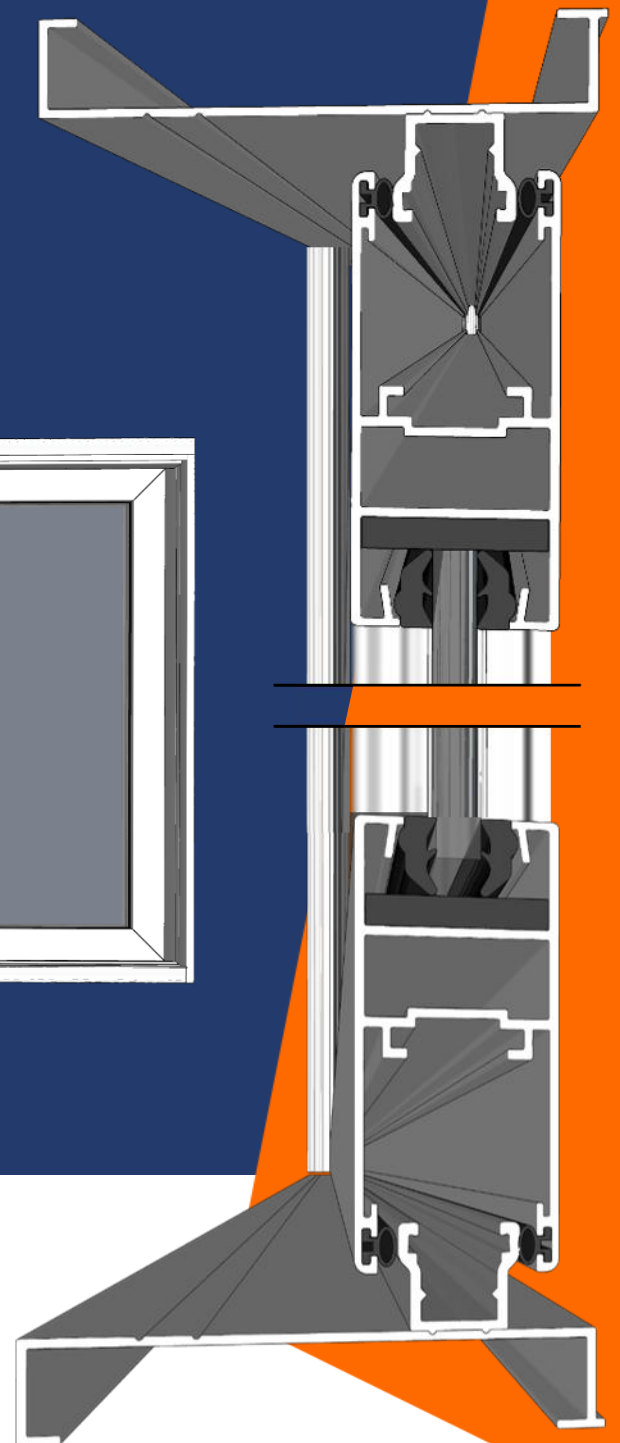
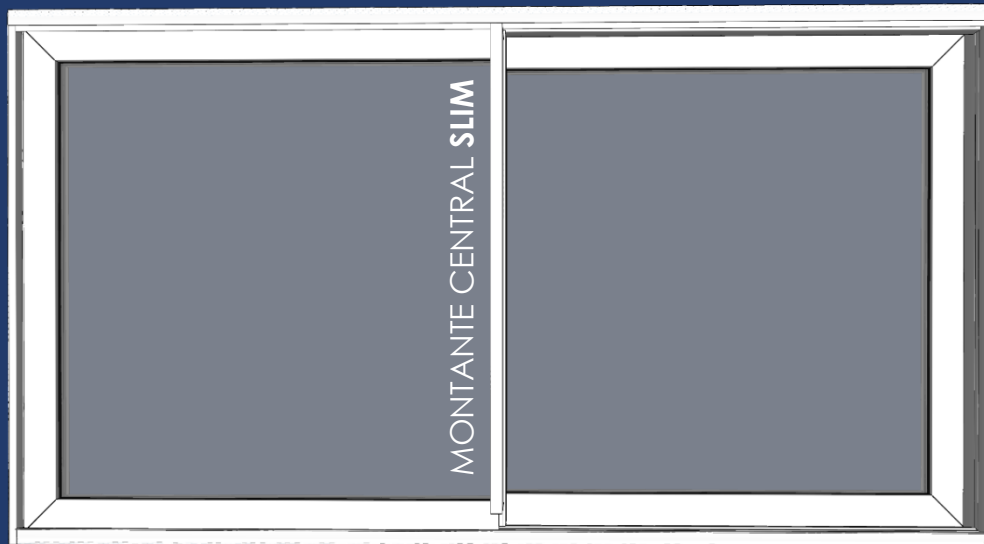
Sistema
Aluminorte
Catálogo completo

VERSÃO VII – Setembro 2024

SISTEMA **SLIM** COM **CÂMARA EUROPEIA**



TECNOLOGIA E DESIGN



SISTEMA LANÇADO NA **FESQUA 2022**

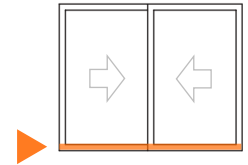
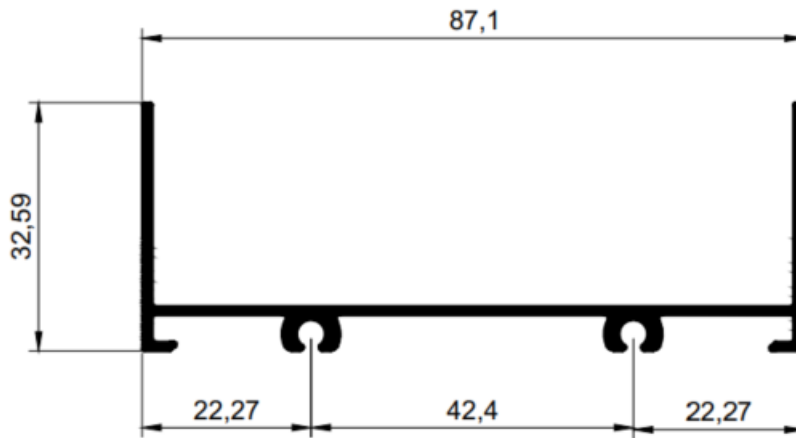
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NORMAS	21
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CÓDIGO	PESO	PÁG	CÓDIGO	PESO	PÁG
IS - 119	0,778 Kg/m	09	IS - M04	2,042 Kg/m	12
IS - 120	0,772 Kg/m	10	IS - M05	1,719 Kg/m	12
IS - 121	0,959 Kg/m	10	IS - M06	0,612 Kg/m	13
IS - 122	0,883 Kg/m	10	IS - M07	2,727 kg/m	14
IS - 123	0,913 Kg/m	10	IS - M08	2,175 kg/m	14
IS - 124	0,537 Kg/m	09	IS - M09	0,766 kg/m	14
IS - 134	0,136 Kg/m	08	IS - M11	1,552 Kg/m	13
IS - 144	0,216 Kg/m	09	IS - M16	0,844 Kg/m	11
IS - 145	0,208 Kg/m	09	IS - M17	0,765 Kg/m	11
IS - 146	0,176 Kg/m	09	IS - M18	0,585 Kg/m	11
IS - F01	0,911 Kg/m	05	IS - M20	0,886 Kg/m	03
IS - F02	0,656 Kg/m	06	IS - M21	1,415 Kg/m	03
IS - F03	1,292 Kg/m	06	IS - M22	1,231 Kg/m	03
IS - F04	0,762 Kg/m	07	IS - M23	0,452 Kg/m	04
IS - F05	0,136 Kg/m	08	IS - M24	1,118 Kg/m	04
IS - F06	0,165 Kg/m	07	IS - M25	0,647 Kg/m	02
IS - F07	0,192 Kg/m	08	IS - M26	0,567 Kg/m	02
IS - F08	0,309 Kg/m	07	IS - M27	0,466 Kg/m	02
IS - F09	1,547 Kg/m	05	IS - M30	0,115 Kg/m	08
IS - F10	0,753 Kg/m	06	IS - M31	0,108 Kg/m	08

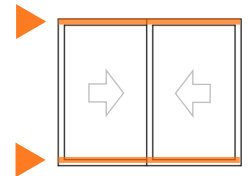
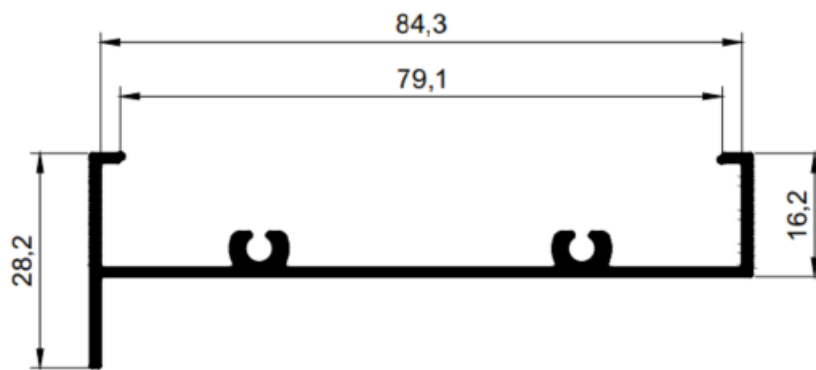
IS – M25

Contramarco Inferior 02 Planos
0,647 Kg/m



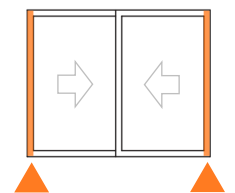
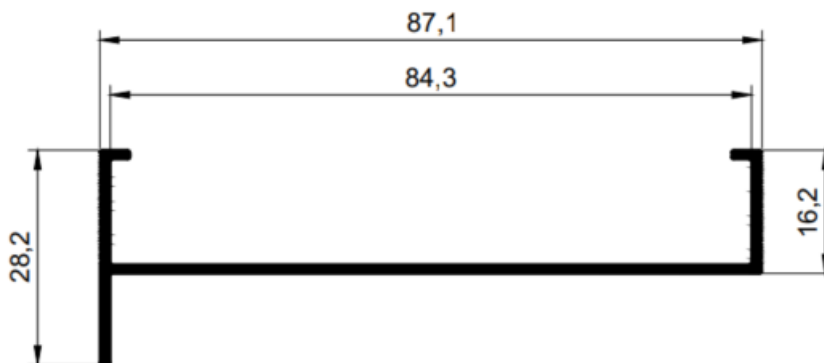
IS – M26

Contramarco Superior / Inferior 02 Planos
0,567 Kg/m



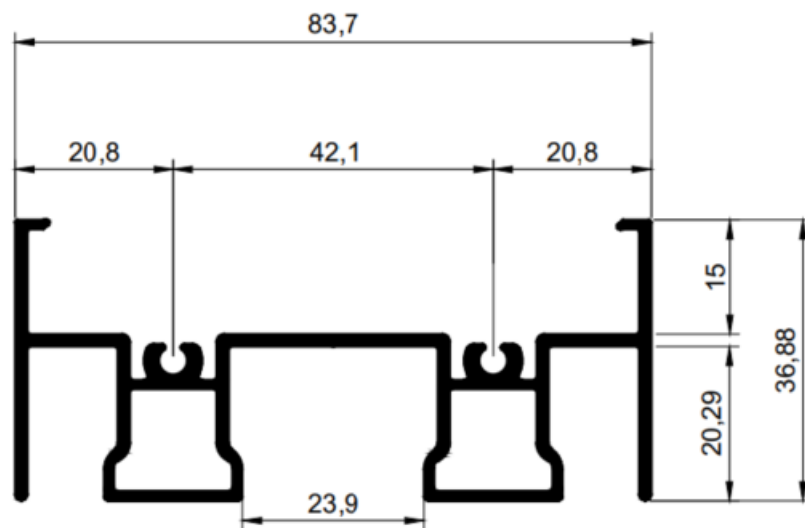
IS – M27

Contramarco Lateral 02 Planos
0,466 Kg/m



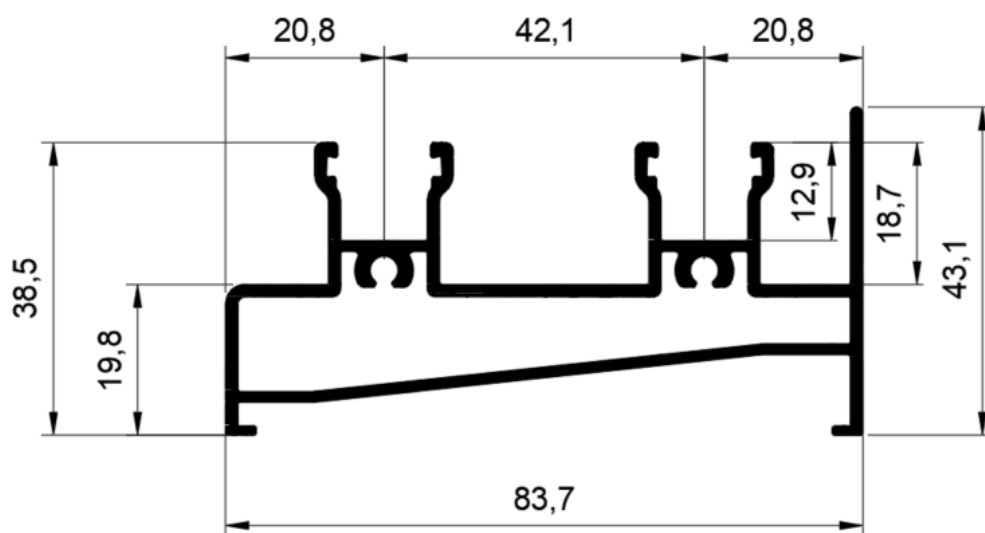
IS – M22

Marco Superior 2 Planos
1,231 Kg/m



IS – M21

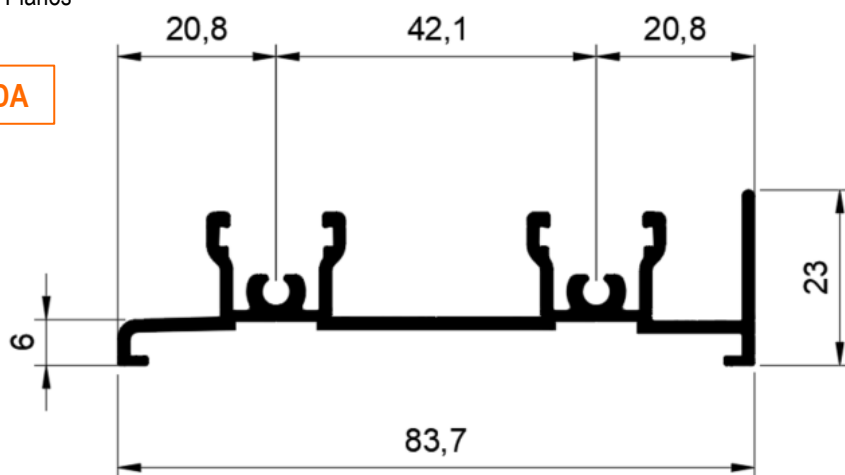
Marco Inferior Tubular 2 Planos
1,415 Kg/m



IS – M20

Marco Inferior Sólido 2 Planos
0,886 Kg/m

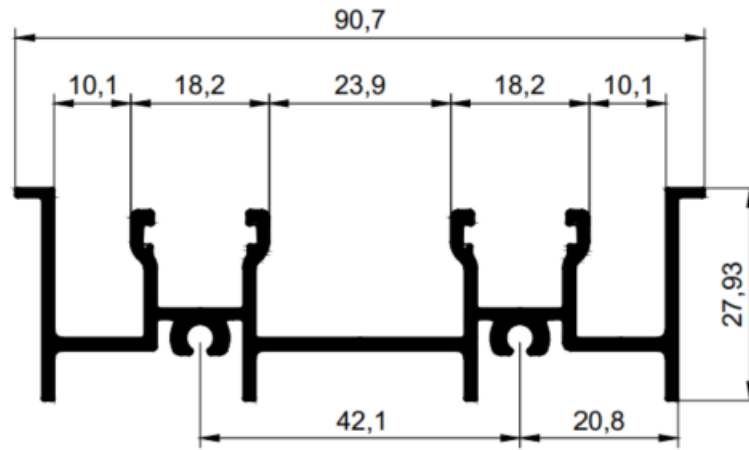
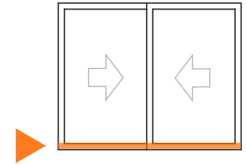
SOB ENCOMENDA



OPÇÃO MAIS LEVE COM MENOR DESNÍVEL

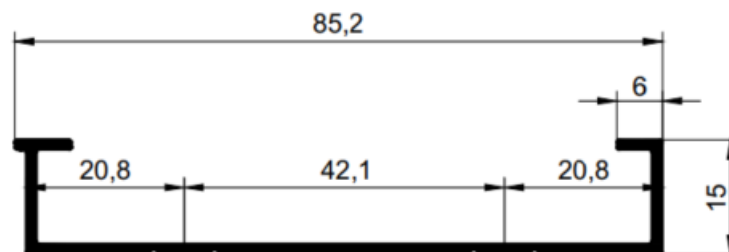
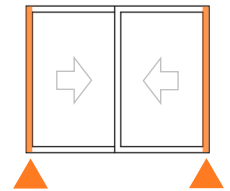
IS – M24

Marco 2 Planos
1,118 Kg/m



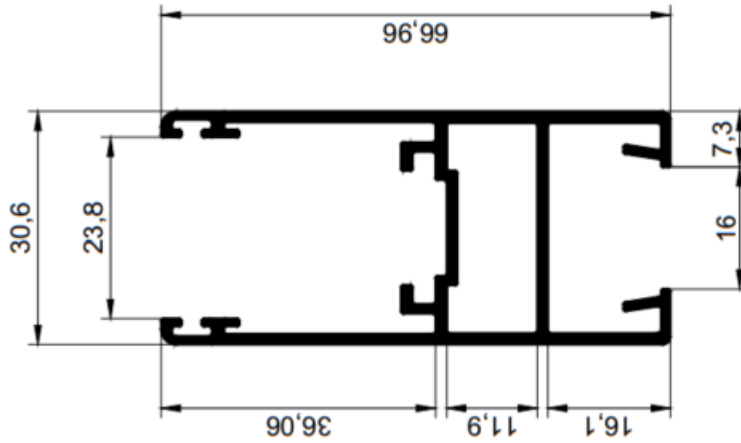
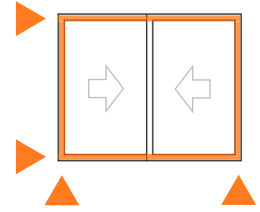
IS – M23

Marco Lateral 02 Planos
0,452 Kg/m



IS – F01

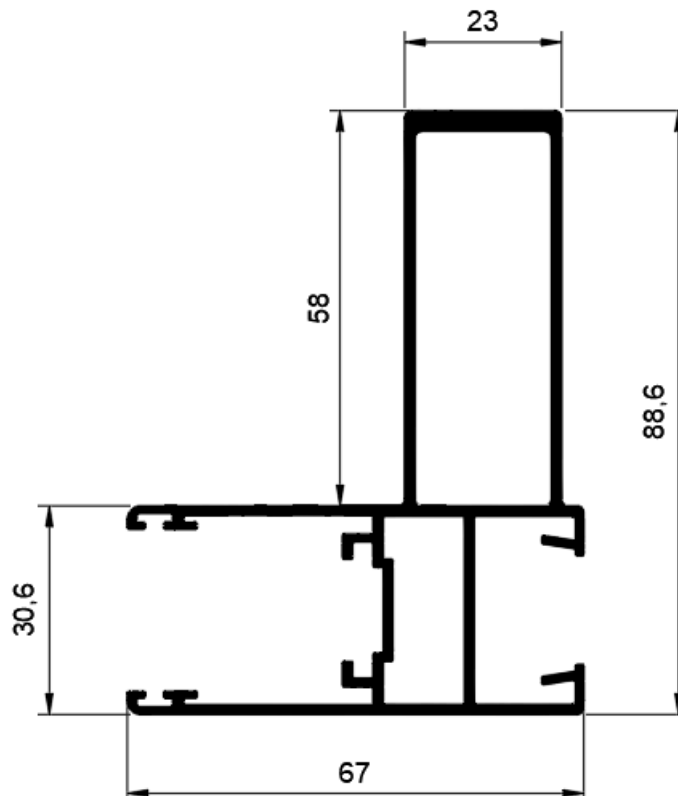
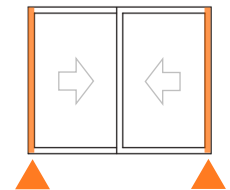
Folha Largura e Altura
0,911 Kg/m



Jx= 5,345 cm ⁴	Wx= 3,493 cm ³
Jy= 11,691 cm ⁴	Wy= 1,134 cm ³

IS – F09

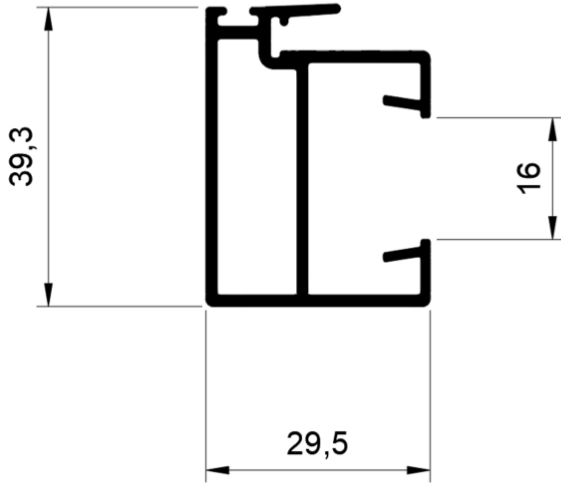
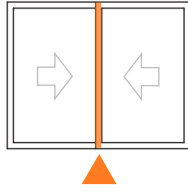
Folha Altura
1,572 Kg/m



Jx= 49,956 cm ⁴	Wx= 9,570 cm ³
Jy= 16,990 cm ⁴	Wy= 3,914 cm ³

IS – F02

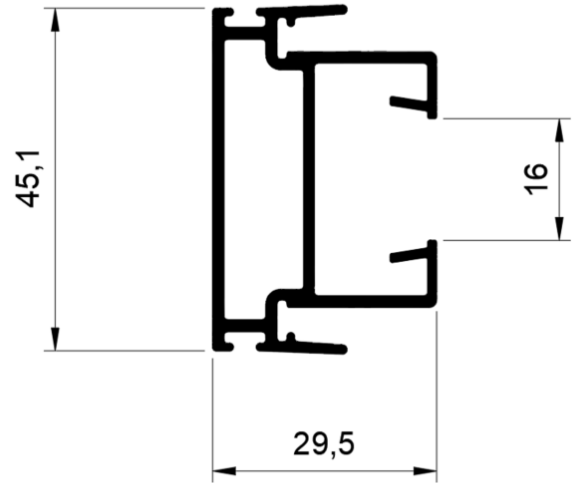
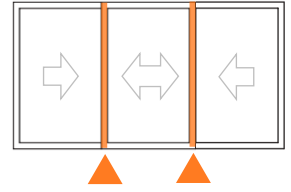
Mão de amigo sem reforço
0,656 Kg/m



$J_x = 4,678 \text{ cm}^4$	$W_x = 2,350 \text{ cm}^3$
$J_y = 2,163 \text{ cm}^4$	$W_y = 1,250 \text{ cm}^3$

IS – F10

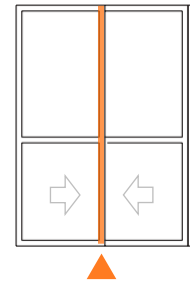
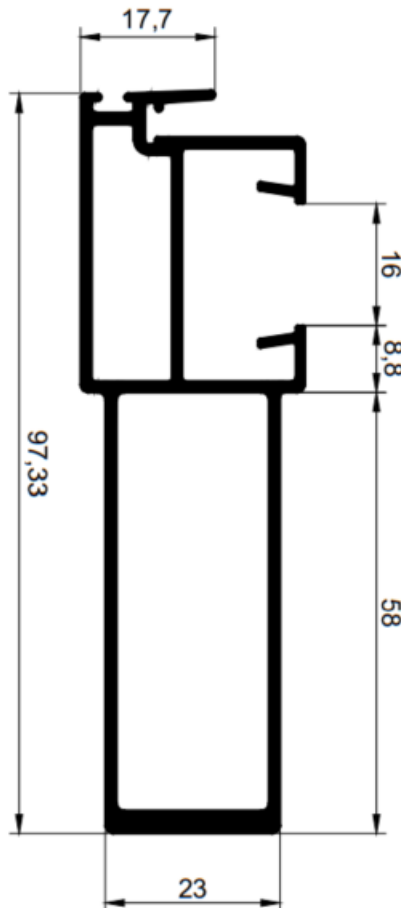
Mão de amigo Dupla
sem reforço
0,753 Kg/m



$J_x = 6,5129 \text{ cm}^4$	$W_x = 2,831 \text{ cm}^3$
$J_y = 2,3193 \text{ cm}^4$	$W_y = 1,302 \text{ cm}^3$

IS – F03

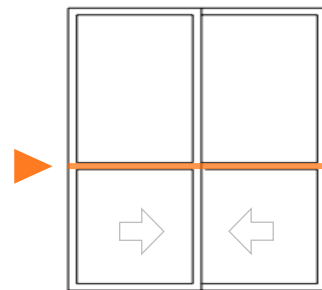
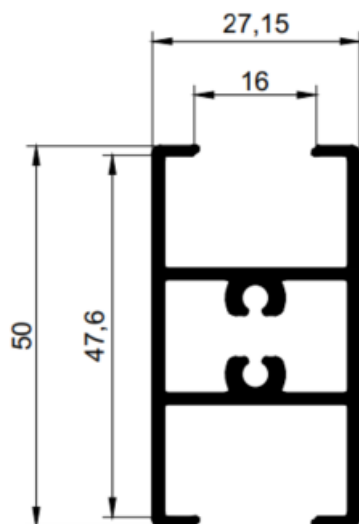
Mão de amigo com reforço
1,292 Kg/m



$J_x = 50,213 \text{ cm}^4$	$W_x = 9,962 \text{ cm}^3$
$J_y = 4,457 \text{ cm}^4$	$W_y = 2,785 \text{ cm}^3$

IS – F04

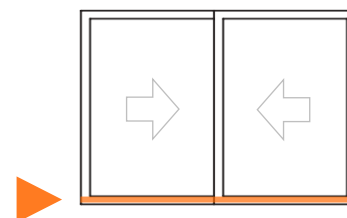
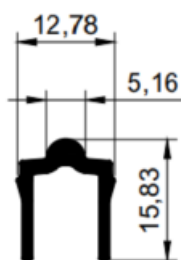
Travessa
0,762 Kg/m



Jx= 4,8334 cm ⁴	Wx= 1,933 cm ³
Jy= 3,0156 cm ⁴	Wy= 2,217 cm ³

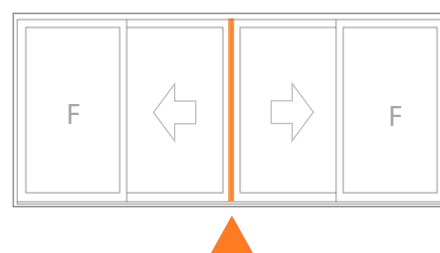
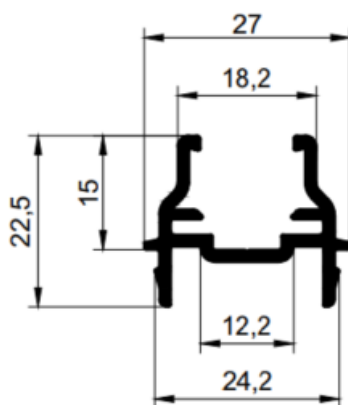
IS – F06

Tampa do Trilho
0,165 Kg/m



IS – F08

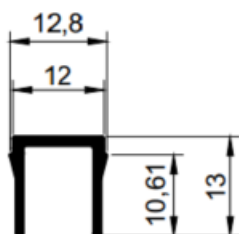
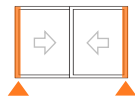
Mata Junta Central
0,309 Kg/m



Jx= 0,9874 cm ⁴	Wx= 0,731 cm ³
Jy= 0,3875 cm ⁴	Wy= 0,322 cm ³

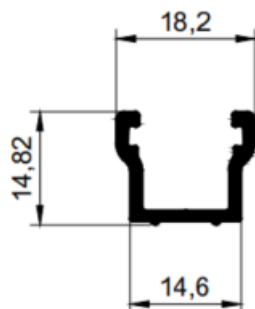
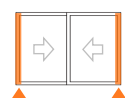
IS – F05

Tampa do Mata Junta
0,136 Kg/m



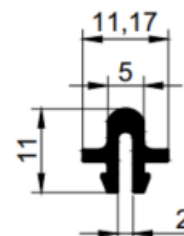
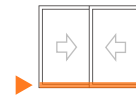
IS – F07

Mata Junta
0,192 Kg/m



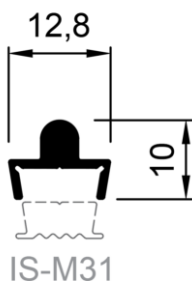
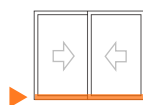
IS – 134

Arremate do Trilho
0,136 Kg/m



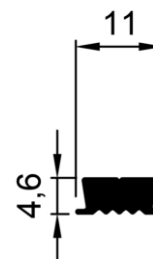
IS-M30

Capa do Trilho Inferior
0,115 Kg/m



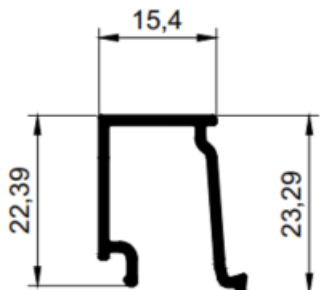
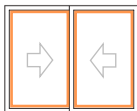
IS-M31

Base do Trilho Inferior
0,108 Kg/m



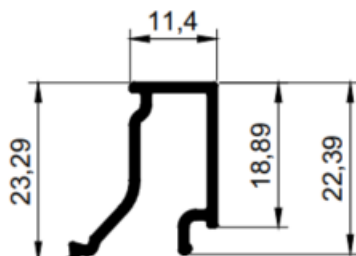
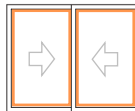
IS - 144

Baguete
0,216 Kg/m



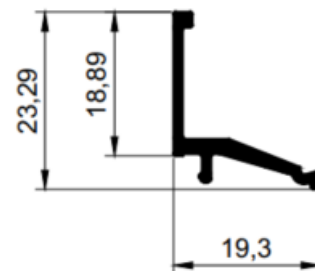
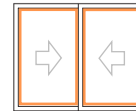
IS - 145

Baguete
0,208 Kg/m



IS - 146

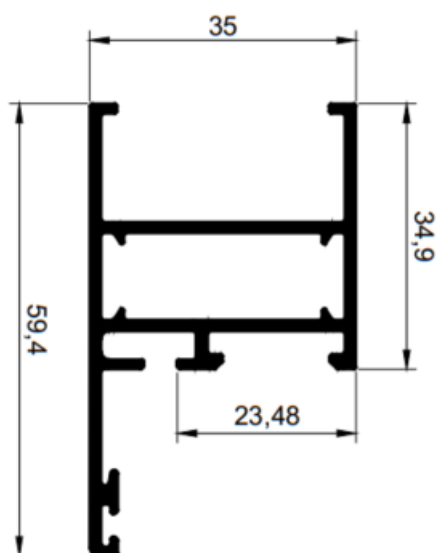
Baguete
0,176 Kg/m



FOLHA OSCILO BATENTE E MAXIM-AR

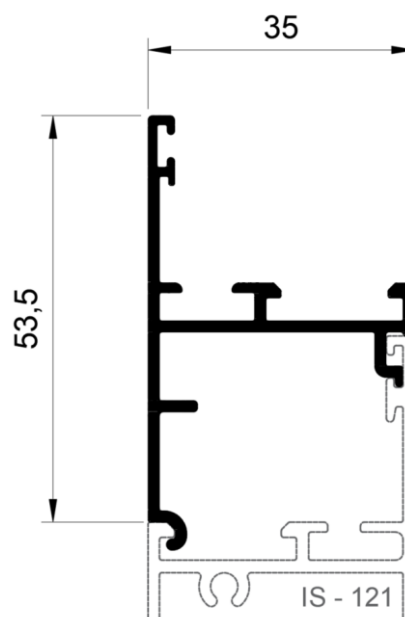
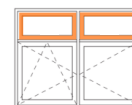
IS - 119

Marco Oscilo Batente
0,778 Kg/m



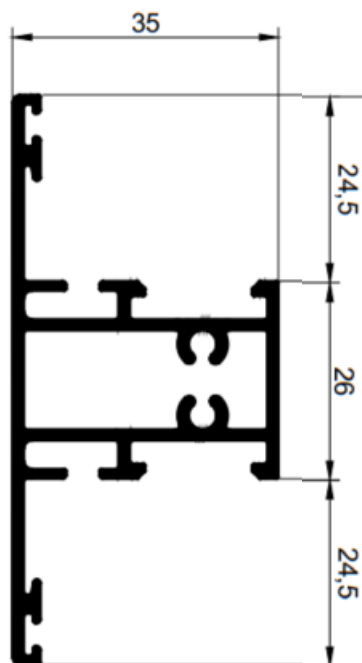
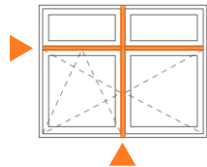
IS - 124

Inversor de Baguete
0,537 Kg/m



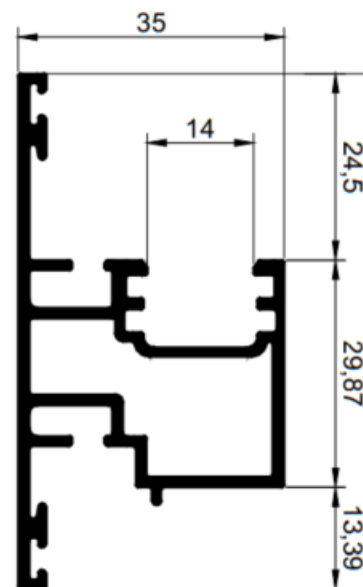
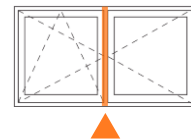
IS - 121

Coluna / Travessa
Oscilo Batente
0,959 Kg/m



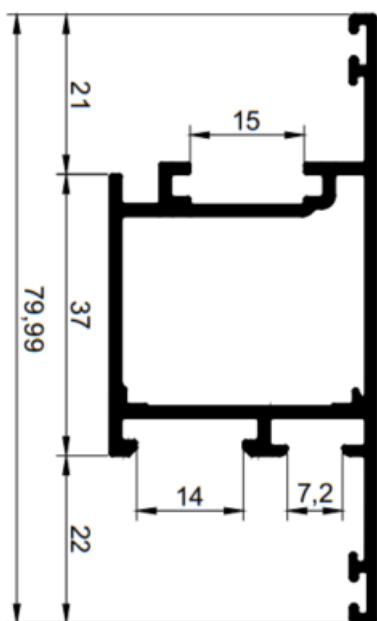
IS - 122

Coluna Oscilo Batente
0,883 Kg/m



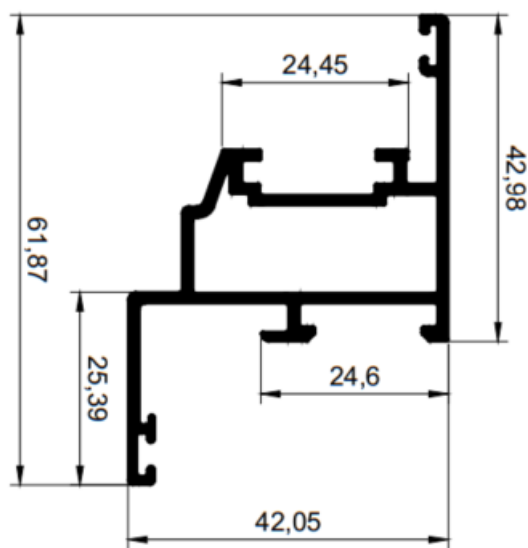
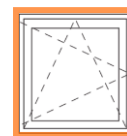
IS - 123

Folha Maxim-ar
0,913 Kg/m



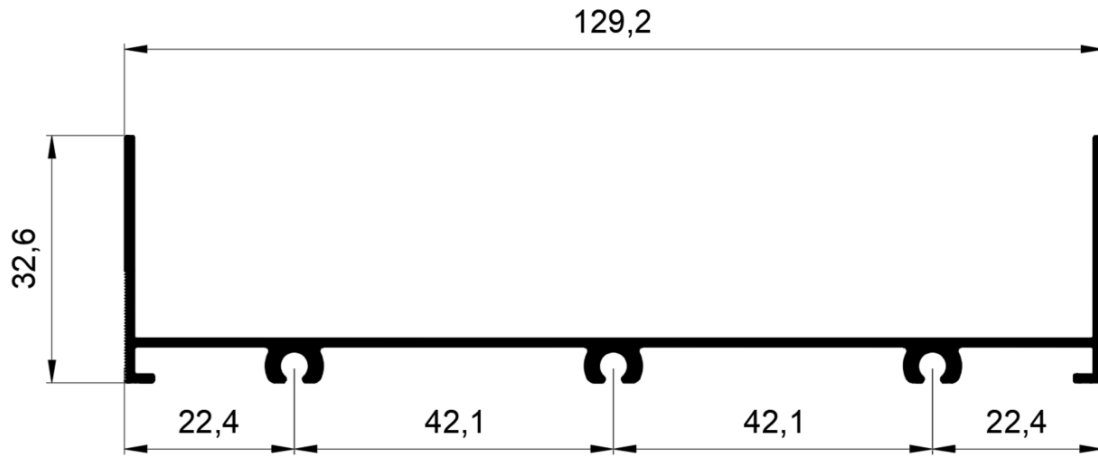
IS - 120

Folha Oscilo Batente
0,772 Kg/m



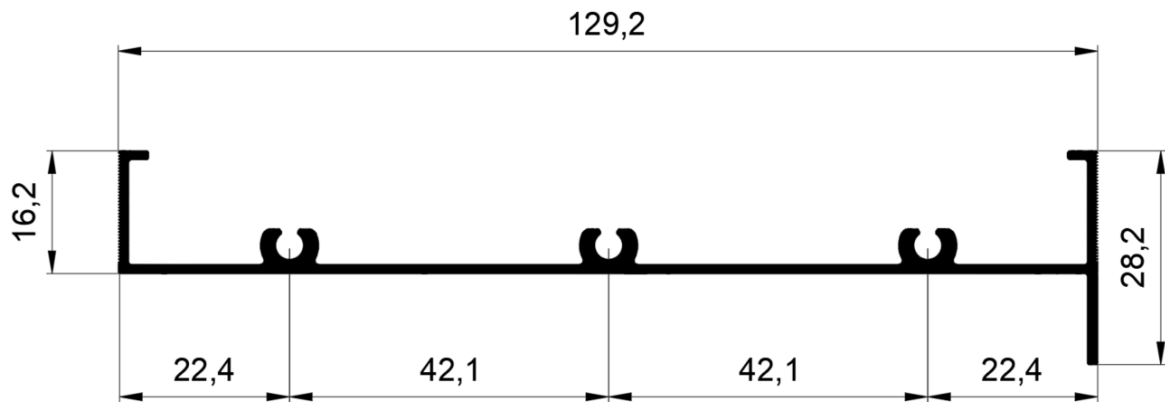
IS – M16

Contramarco Inferior 03 Planos
0,844 Kg/m



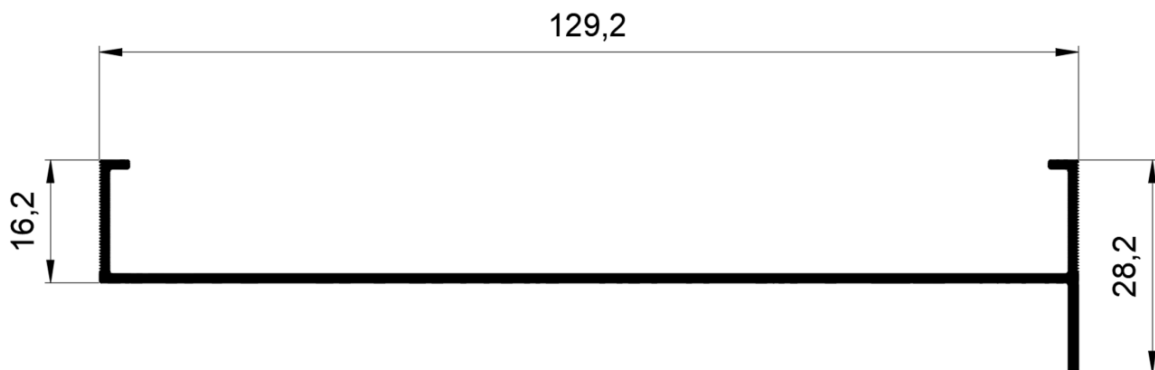
IS – M17

Contramarco Superior / Inferior 03 Planos
0,765 Kg/m



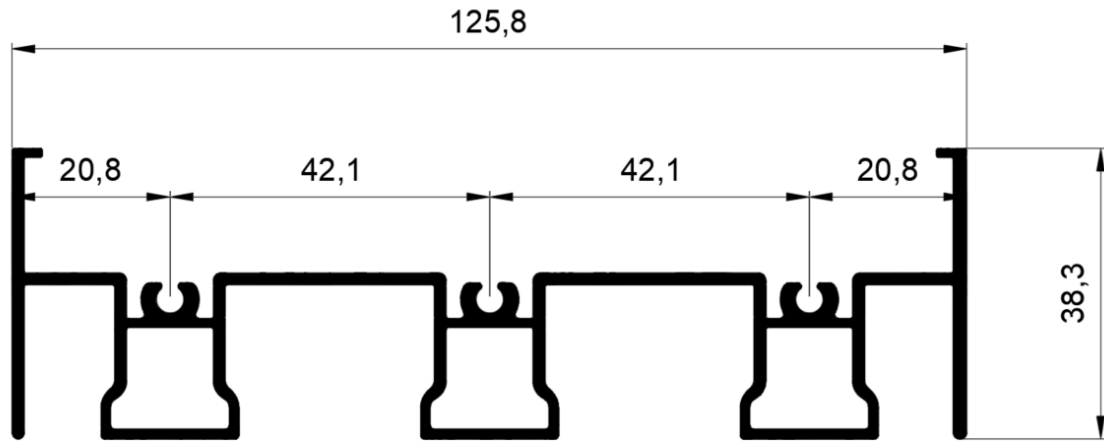
IS – M18

Contramarco Lateral 03 Planos
0,585 Kg/m



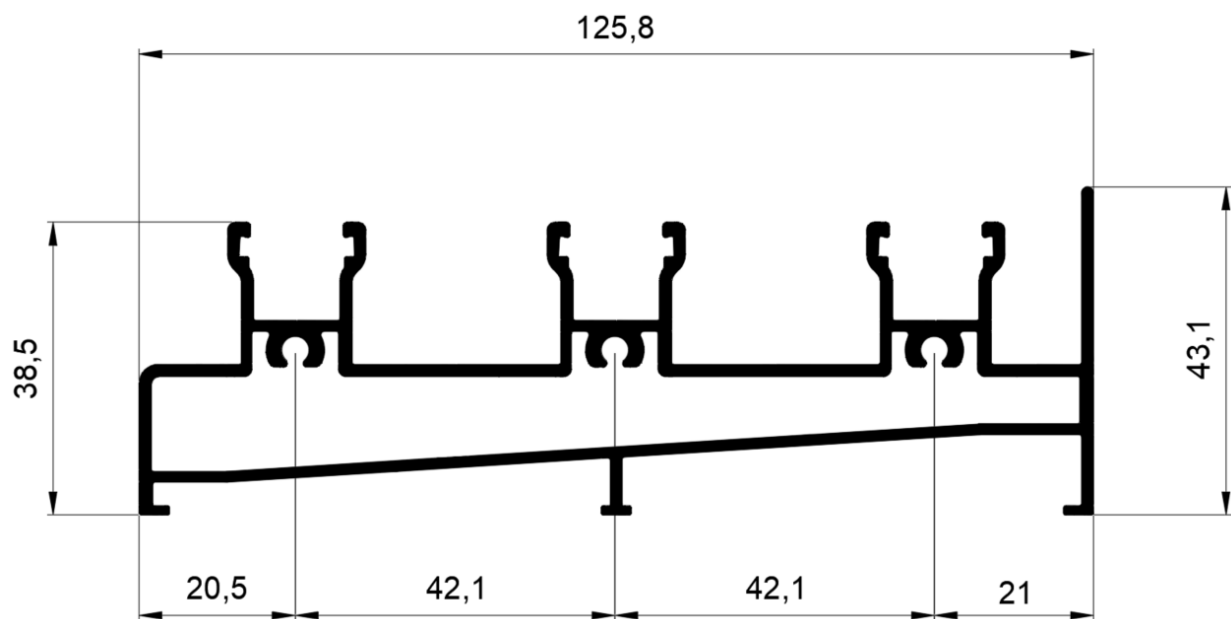
IS – M05

Marco Superior 03 planos
1,719 Kg/m



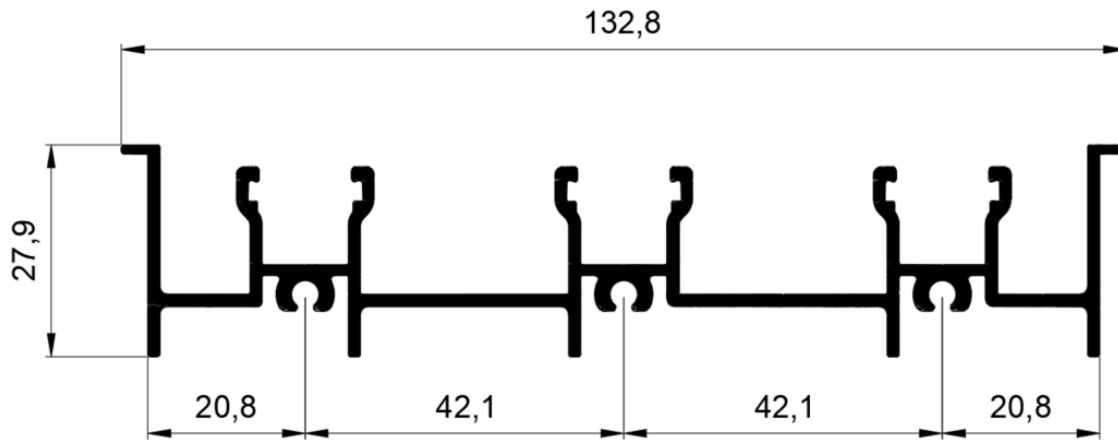
IS – M04

Marco Inferior 03 planos
2,042 Kg/m



IS – M11

Marco Inferior 03 planos
1,552 Kg/m



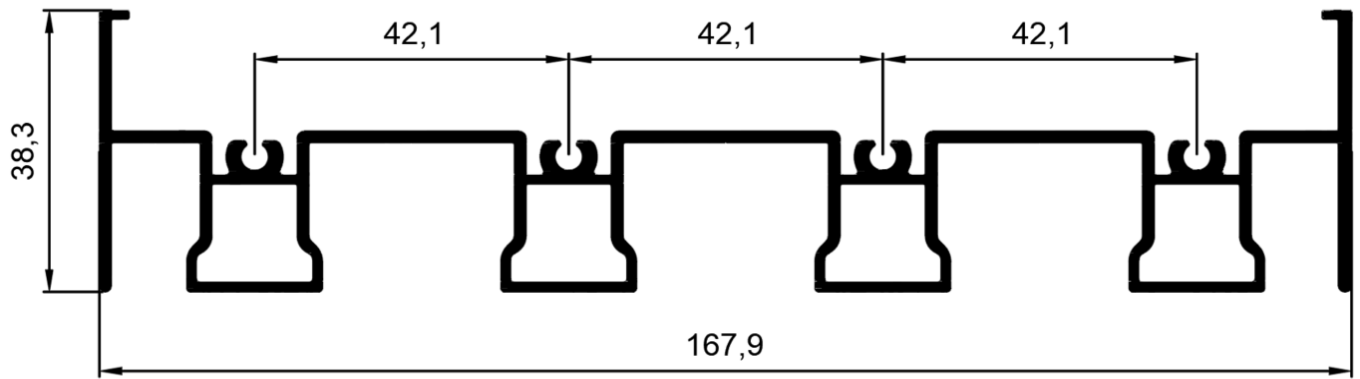
IS – M06

Marco Lateral 03 planos
0,612 Kg/m



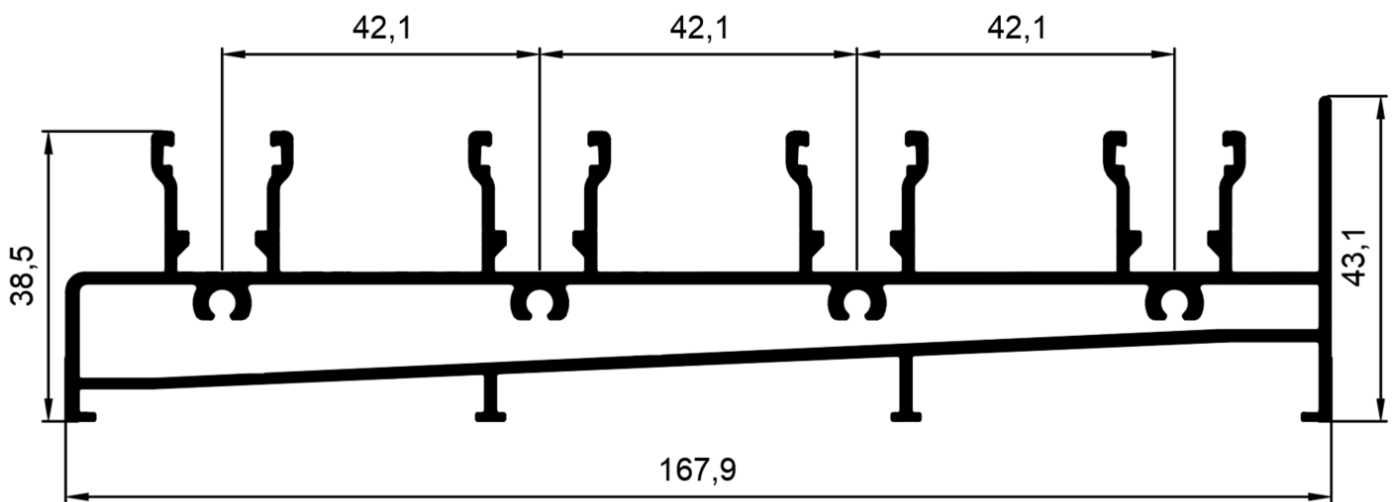
IS – M08

Marco Superior 04 planos
2,175 Kg/m



IS – M07

Trilho Inferior 04 planos
2,727 Kg/m



IS – M09

Marco lateral 04 planos
0,766 Kg/m



ACESSÓRIO	CÓDIGO	DESCRIÇÃO
	MACCRECREUROPORSK	Maçaneta Cremona Euro Porta – Branco, Preto e Prata
	MACCRECREUROJANSK	Maçaneta Cremona Euro Janela – Branco, Preto e Prata
	KITHAS5030MMMAC	Kit Haste 50 mm
	KITHAS6530MMMAC	Kit Haste 65 mm
	MECCREMAS	Mecanismo Cremona Alçante – Preto e Cinza
	KITROSCILEURO	Roseta Ouro – Branco e Preto
	CILEURO65MM3CNIQ	Cilindro Euro – 65 mm
	BICFECREGMASNY	Bico Fecho Bulon – Regulável Alçante / Correr – Cinza e Preto
	FIXTRAFMAS	Fixador Trava da Folha Fixa – Massima - Preto

ACESSÓRIO	CÓDIGO	DESCRIÇÃO
	CTFMASINX	Contra Fecho - Inox
	ROLSIMMASS1PC	Roldana Simples Concava Massima 40 Kg
	ROLDUPMASS1PC	Roldana Simples Concava Massima 80 Kg
	ROLDUPUDIPLMASS1PC	Roldana Dupla Concava Massima 200 Kg
	ROLSIMALCMAS60KG	Kit Roldana Simples Alcante 60 Kg
	ROLSIMALCMAS120KG	Kit Roldana Simples Alcante 120 Kg
	KITGUIMASNY	Kit Guia Deslizante – Branco Preto e Cinza
	KITVEDCMASNY	Kit Vedação Central - Branco Preto e Cinza
	DRERNR22NY	Dreno com Portinhola – Branco e Preto

ACESSÓRIO	CÓDIGO	DESCRIÇÃO
	BATUNIVENY	<i>(Opcional)</i> Batedeira Universal - Branco, Cinza e Preto
	CALFOLFIXMASNYPRT	Calço Folha Fixa - Preto
	CNXALINMASNYPRT	Conexão de Alinhamento - Preto
	MACHO CONEXÃO MAX BLOCK 90°	Macho Conexão 90°
	MACHO DE CONEXÃO 45°	Macho Conexão 45°
	VEDINFSUPMASSL2ES	Vedação Superior / Inferior com 2 escovas – Branco, Prata e Preto
	FRA330EUROLTCTT22INX	Fechadura Giro 330 Euro Cilindro 70 - Inox
	DOBCE2A60	Dobradiça CE 2 Abas 60 Kg 1 peça – Branco, Preto e S/A
	MACEURO82ROS	Maçaneta Mac Euro 82mm Roseta – Branco e Preto

ACESSÓRIO	CÓDIGO	DESCRIÇÃO
	MACEURO82ESP	Maçaneta Mac Euro 82mm Espelho – Branco e Preto
	KITOSCBAT7011300S/A	Kit Oscilo Batente
	DOBOSCBAT	Maçaneta Oscilo Batente Garfo – Branco, Preto e Cinza
	MACCREOSCBATG26	Dobradiça Oscilo Batente – Preta, Branca e Cinza
	03524N	Barra Poliamida Camara Europeia – Preto
	TAMGSK022025AL	Tampa Montante Lock 022/025 – Preto, Branco
	BRACO UDMAX PROJETANTE DESLIZANTE MASSIMA CX 15 350	Braço Udmax PD CX.15 – Branco, Cinza e Preto
	MACCREMASEURO	Maçaneta Garfo Max-ar Massima – Branco, Cinza e Preto

ACESSÓRIO	CÓDIGO	DESCRIÇÃO
	CTFREGMASZNBS	Contra Fecho Regulável Max-ar Massima - Preto
	BLNCDUPMASNYPRT	Bulon Maxim-ar Massima Conexão Dupla - Preto
	ANGREENVIOMAS	Ângulo de Reenvio Maxim-ar Massima
	CALBRAOPENNYPRT	Calço para Braço Open – Preto

Janelas de 02, 03, 04 e 06 folhas de correr

Opcionais: Persiana Integrada e Sistema Elevável (Alçar e correr)



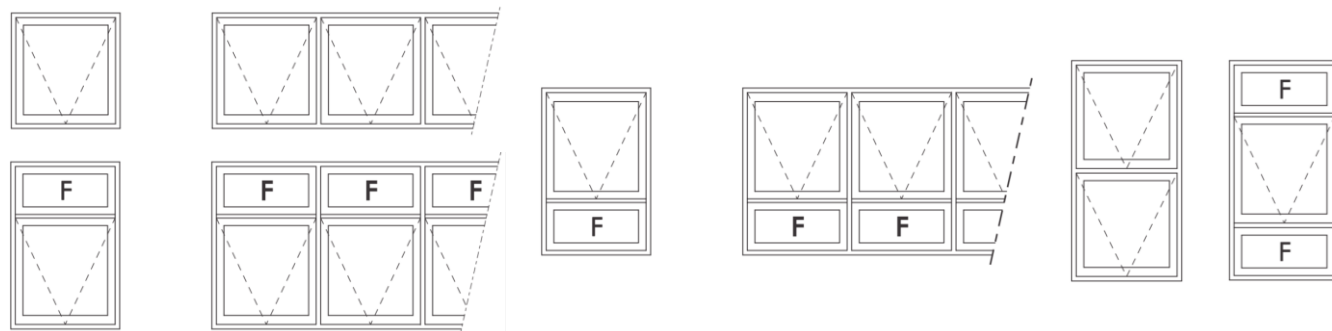
Portas de 02, 03, 04 e 06 folhas de correr

Opcionais: Persiana Integrada e Sistema Elevável (Alçar e correr)



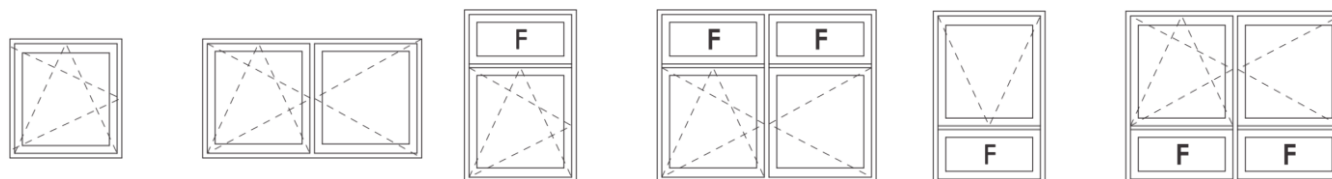
Maxim-ar

Fixo, Inferior, Superior e Múltiplo



Oscilobatente

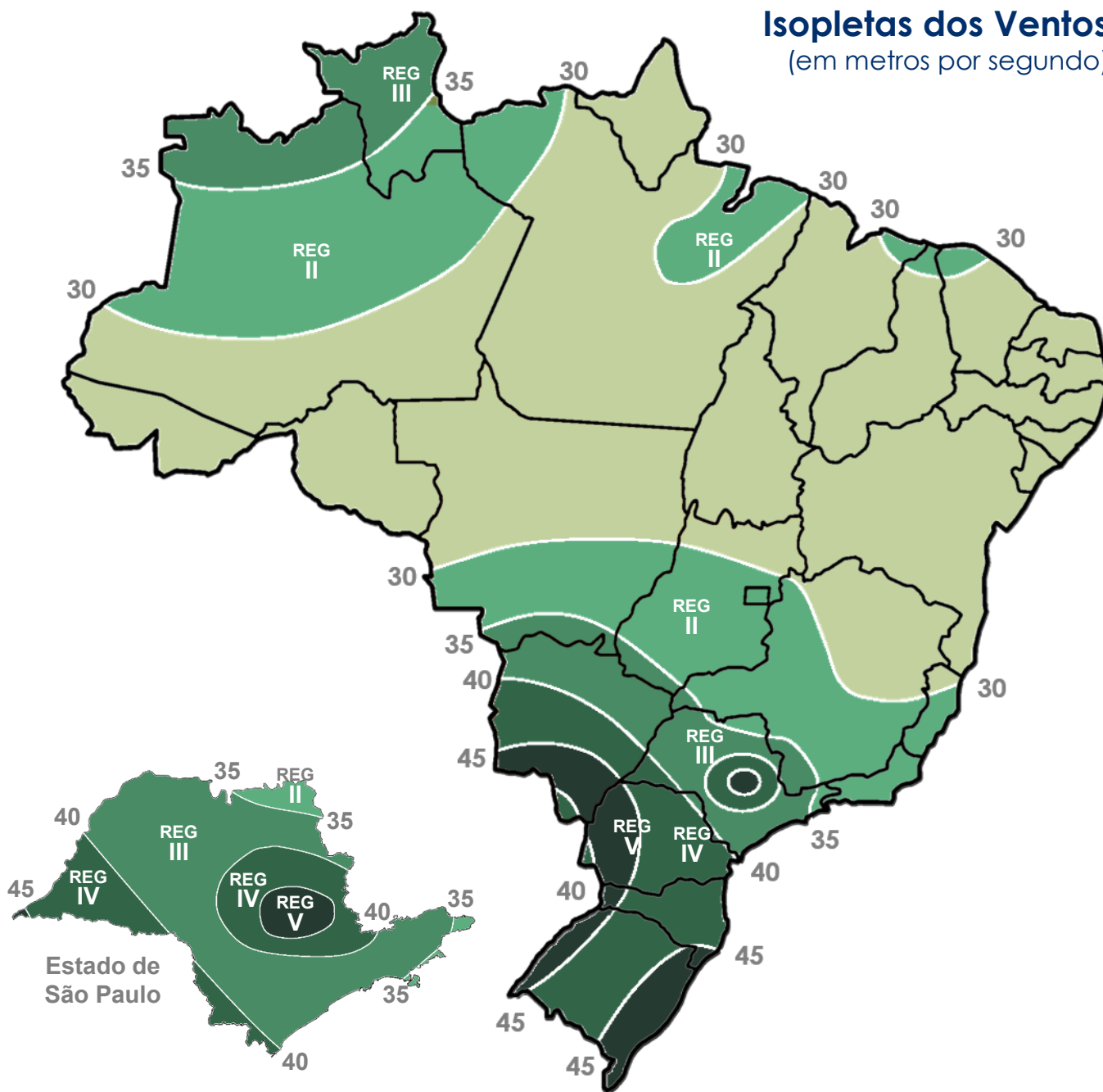
Tomba e abre



No Brasil, o comportamento de uma esquadria está regulamentado pela Norma **ABNT NBR 10.821**. Esta norma determina os parâmetros de desempenho mínimas de caixilhos em edificações residenciais e comerciais.

A velocidade do vento é o fator inicial para calcular a pressão do vento no local desejado.

Isopletas dos Ventos
(em metros por segundo)

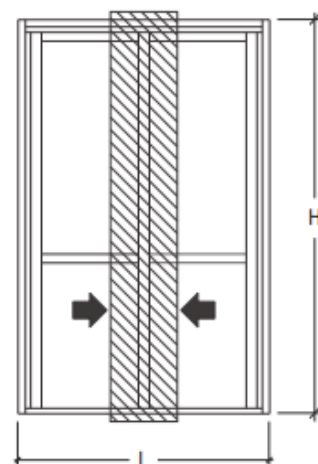
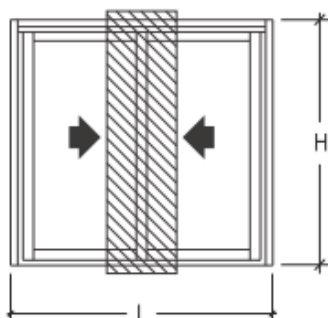
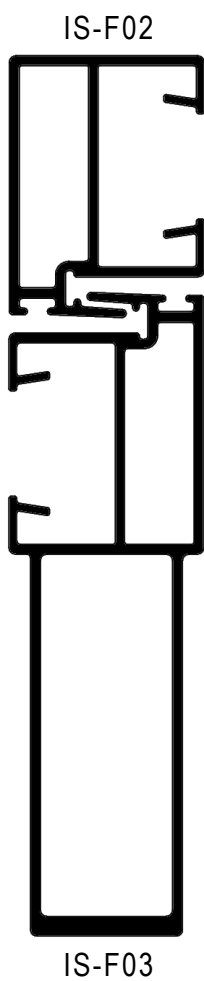


VELOCIDADE DO VENTO POR REGIÃO CONSIDERADA NA NORMA ABNT NBR 10.821

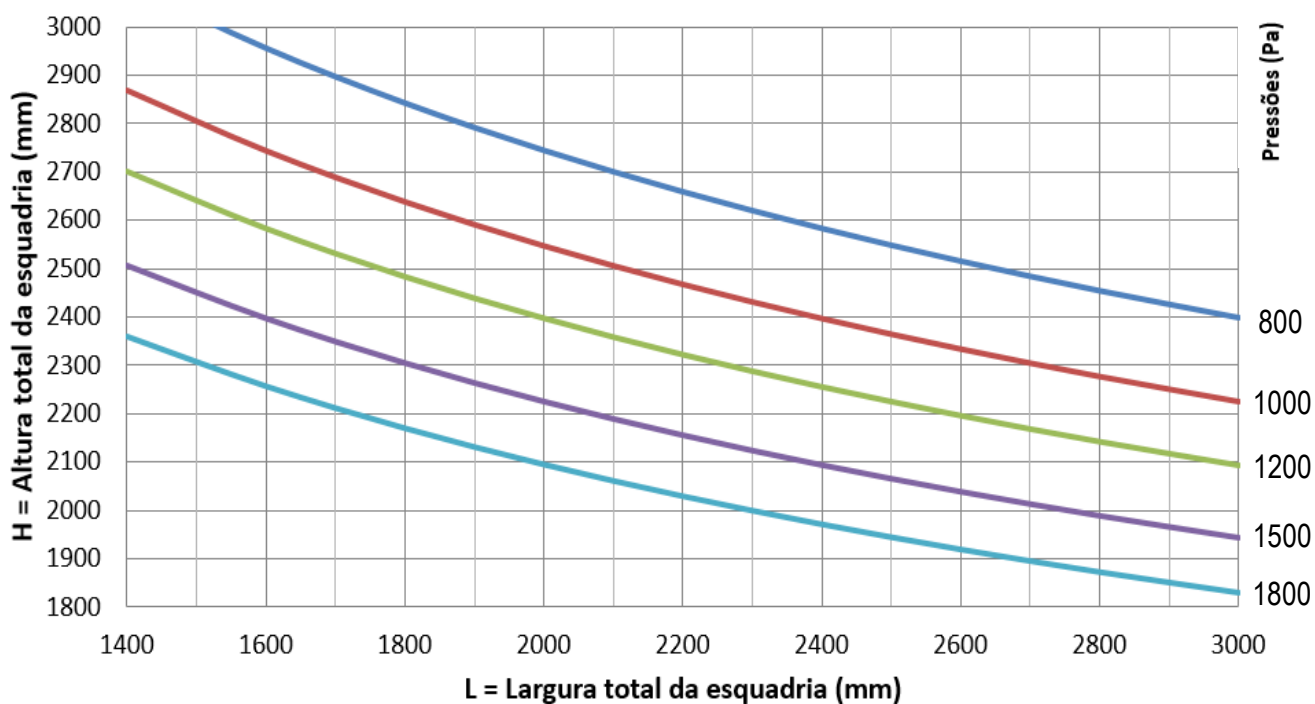
REGIÃO 1	REGIÃO 2	REGIÃO 3	REGIÃO 4	REGIÃO 5
até 30 m/s até 108 km/h	30 - 35 m/s 108 – 126 km/h	35 - 40 m/s 126 – 144 km/h	40 - 45 m/s 144 – 162 km/h	45 - 50 m/s 162 – 180 km/h

QUANTIDADE DE PAVIMENTOS	ALTURA MÁXIMA	REGIÕES DO PAÍS	PRESSÃO DO ENSAIO	PRESSÃO DE SEGURANÇA	PRESSÃO DE ÁGUA
			Pe em (Pa) Positiva e negativa $Pe - Pp \times 1,2$	Ps em (Pa) Positiva e negativa $Ps - Pp \times 1,5$	Pa em (Pa) Positiva e negativa $Pa - Pp \times 0,2$
02	6 m	I	350	520	60
		II	470	700	80
		III	610	920	100
		IV	770	1160	130
		V	950	1430	160
05	15 m	I	420	640	70
		II	580	860	100
		III	750	1130	130
		IV	950	1430	160
		V	1180	1780	200
10	30 m	I	500	750	80
		II	680	1030	110
		III	890	1340	150
		IV	1130	1700	190
		V	1400	2090	230
20	60 m	I	600	900	100
		II	815	1220	140
		III	1060	1600	180
		IV	1350	2020	220
		V	1660	2500	280
30	90 m	I	660	980	110
		II	890	1340	150
		III	1170	1750	200
		IV	1480	2210	250
		V	1820	2730	300

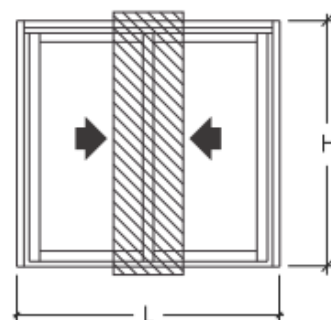
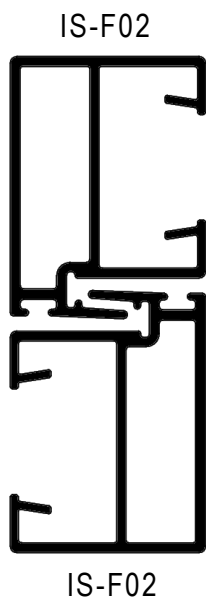
Porta / Janela de correr 02 Folhas



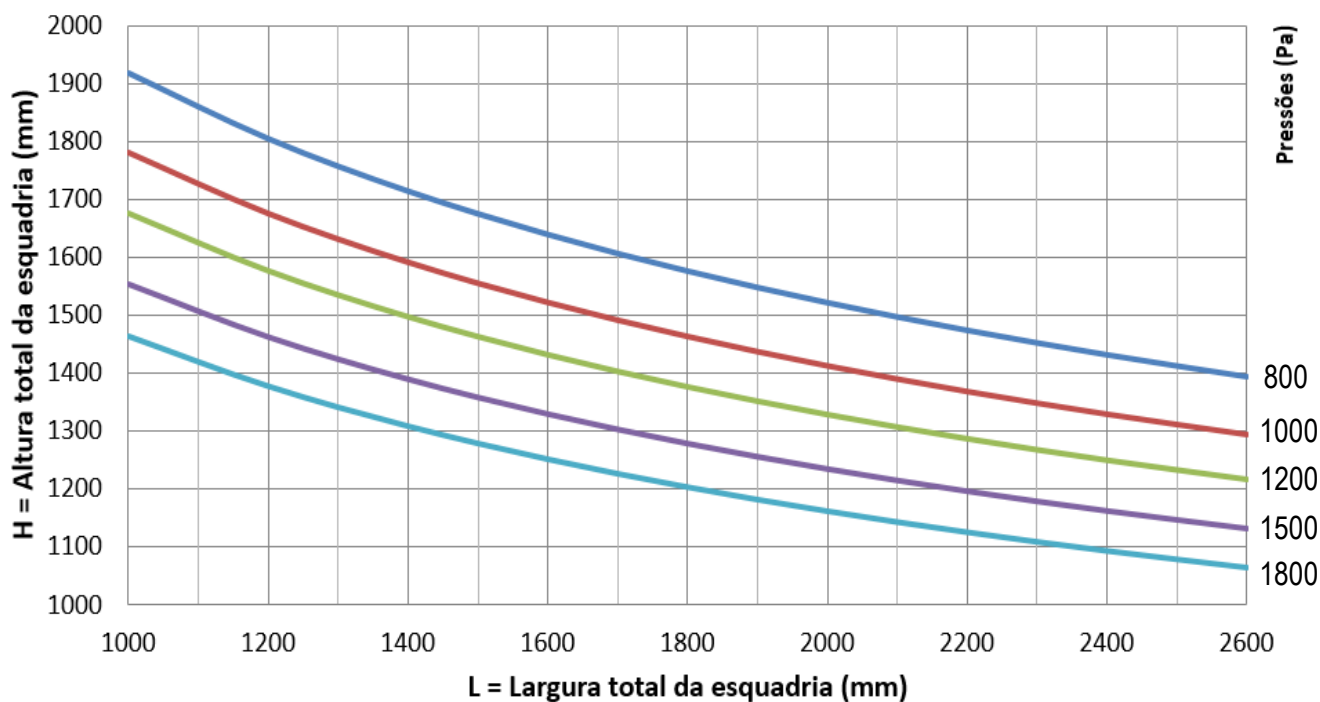
IS-F02	IS-F03
$Jx = 4,6784 \text{ cm}^4$	$Jx = 50,2135 \text{ cm}^4$
$Wx = 2,350 \text{ cm}^3$	$Wx = 9,963 \text{ cm}^3$
$Jx \text{ TOTAL} = 54,8919 \text{ cm}^4$	



Janela de correr 02 Folhas



IS-F02	IS-F02
$Jx = 4,6784 \text{ cm}^4$	$Jx = 4,6784 \text{ cm}^4$
$Wx = 2,350 \text{ cm}^3$	$Wx = 2,350 \text{ cm}^3$
$Jx \text{ TOTAL} = 9,357 \text{ cm}^4$	

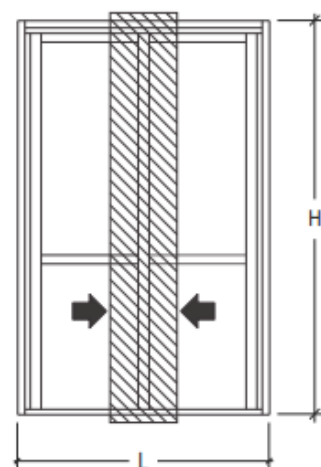
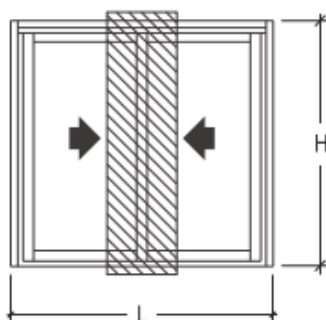


Porta / Janela de correr 02 Folhas

IS-F03



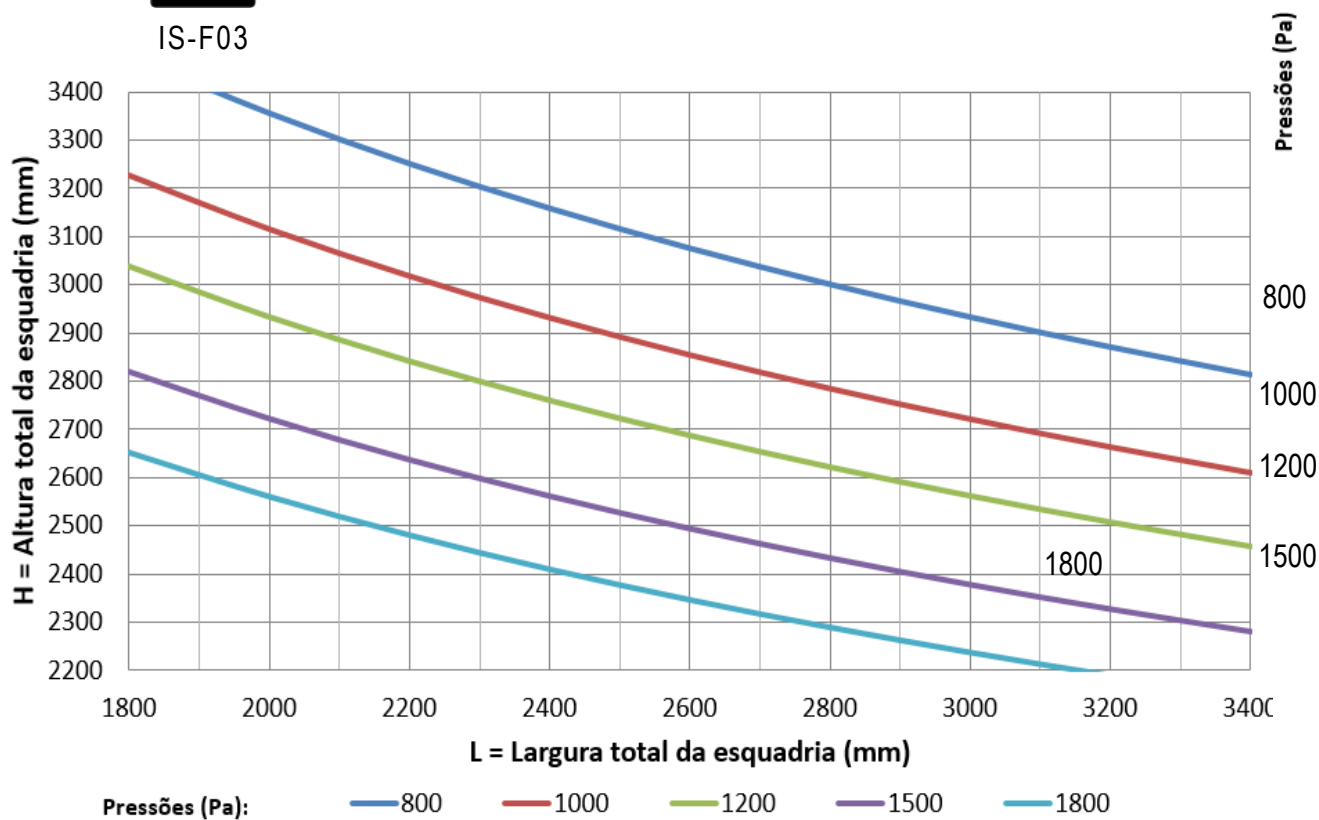
IS-F03



IS-F03
$Jx = 50,2135 \text{ cm}^4$
$Wx = 9,963 \text{ cm}^3$

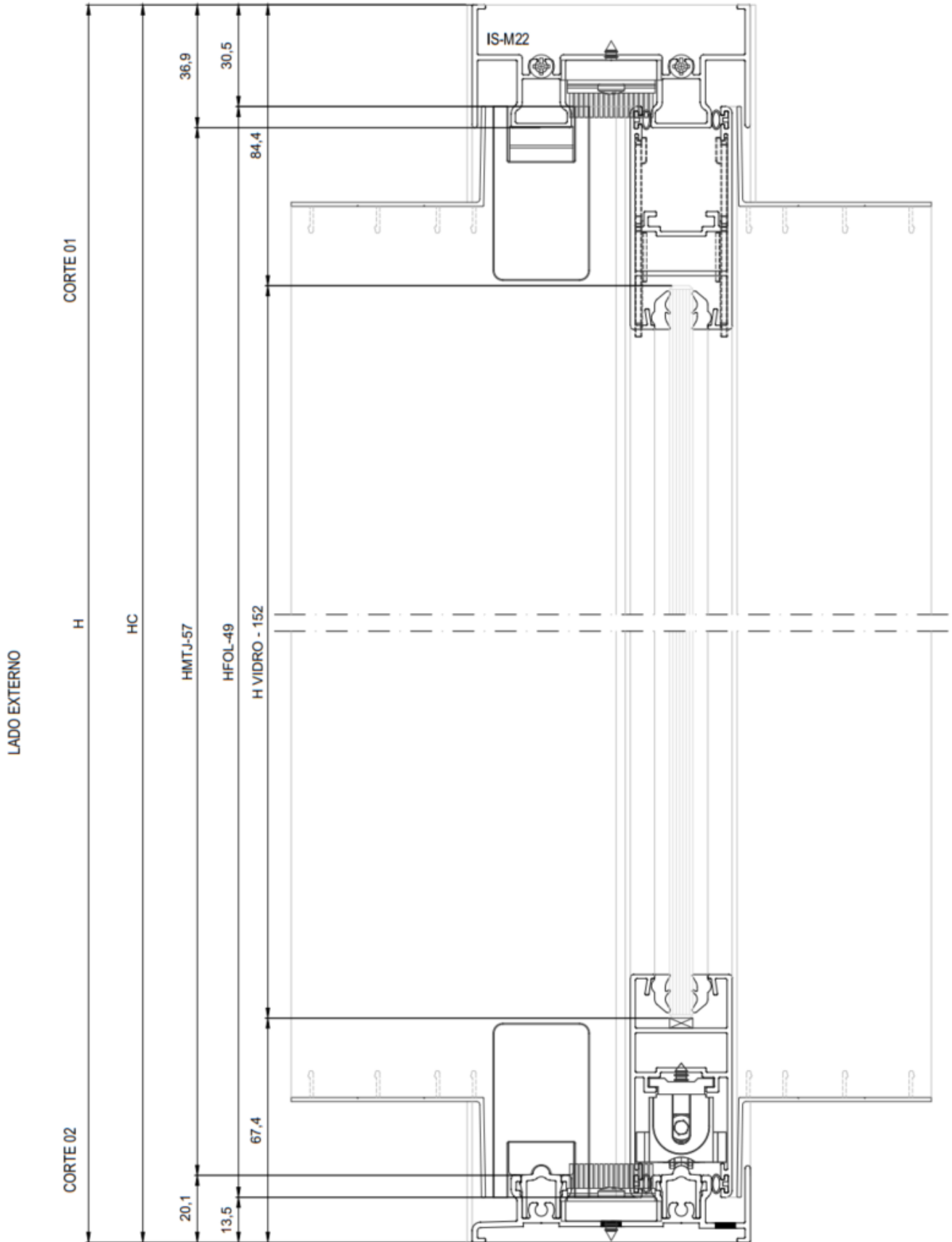
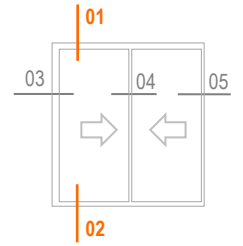
IS-F03
$Jx = 50,2135 \text{ cm}^4$
$Wx = 9,963 \text{ cm}^3$

$Jx \text{ TOTAL} = 100,427 \text{ cm}^4$



Porta de Correr 02 Folhas

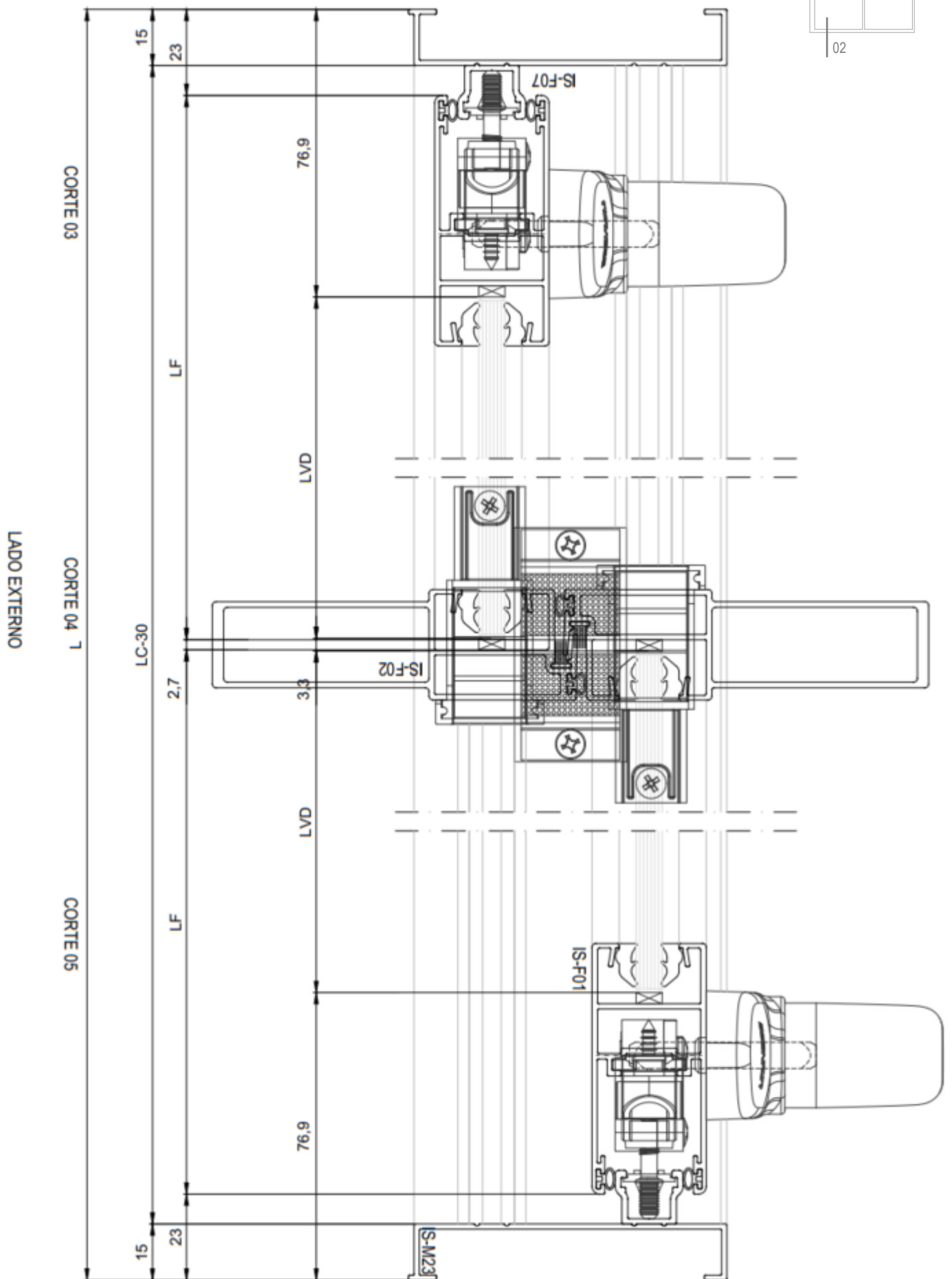
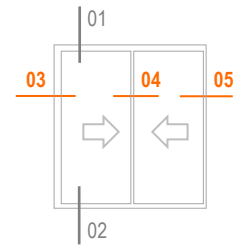
sem escala



*dimensões em milímetros

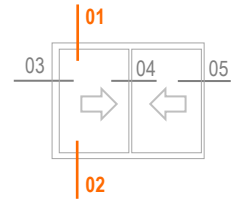
Porta de Correr 02 Folhas

sem escala



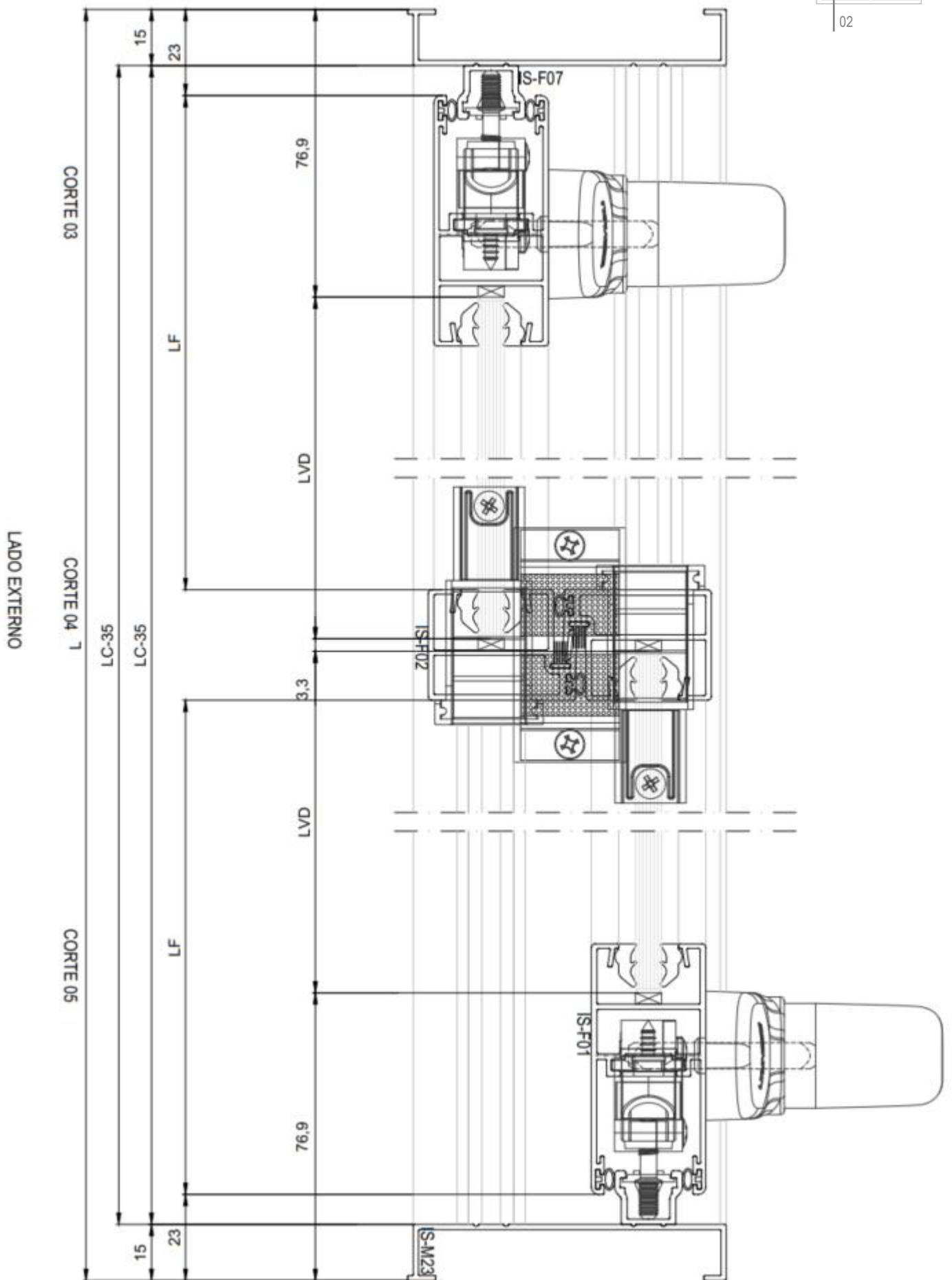
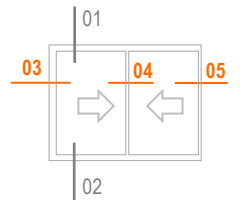
Janela de Correr 02 Folhas

sem escala



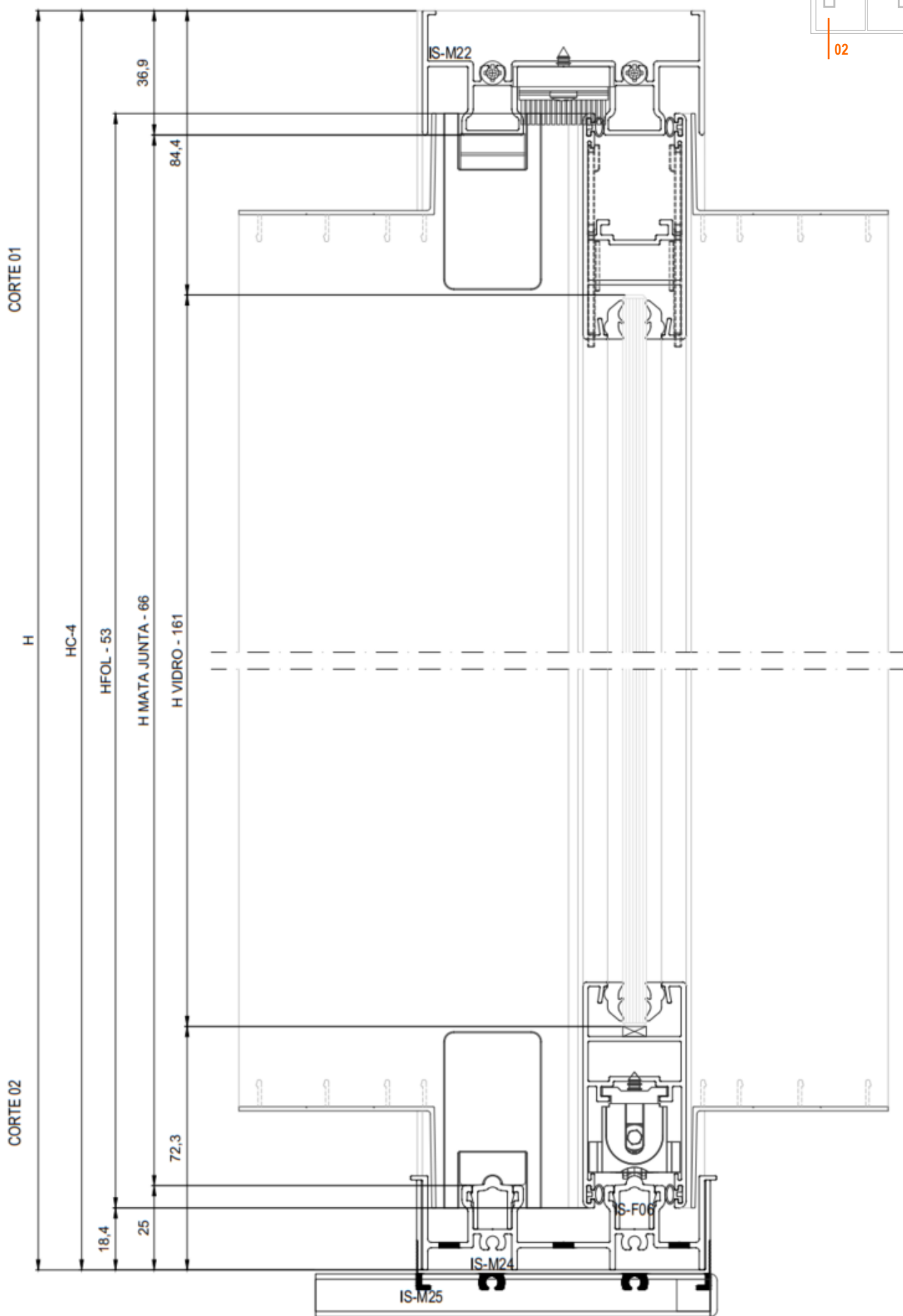
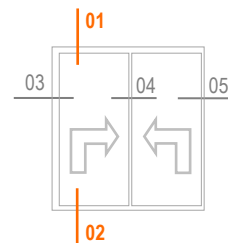
Janela de Correr 02 Folhas

sem escala



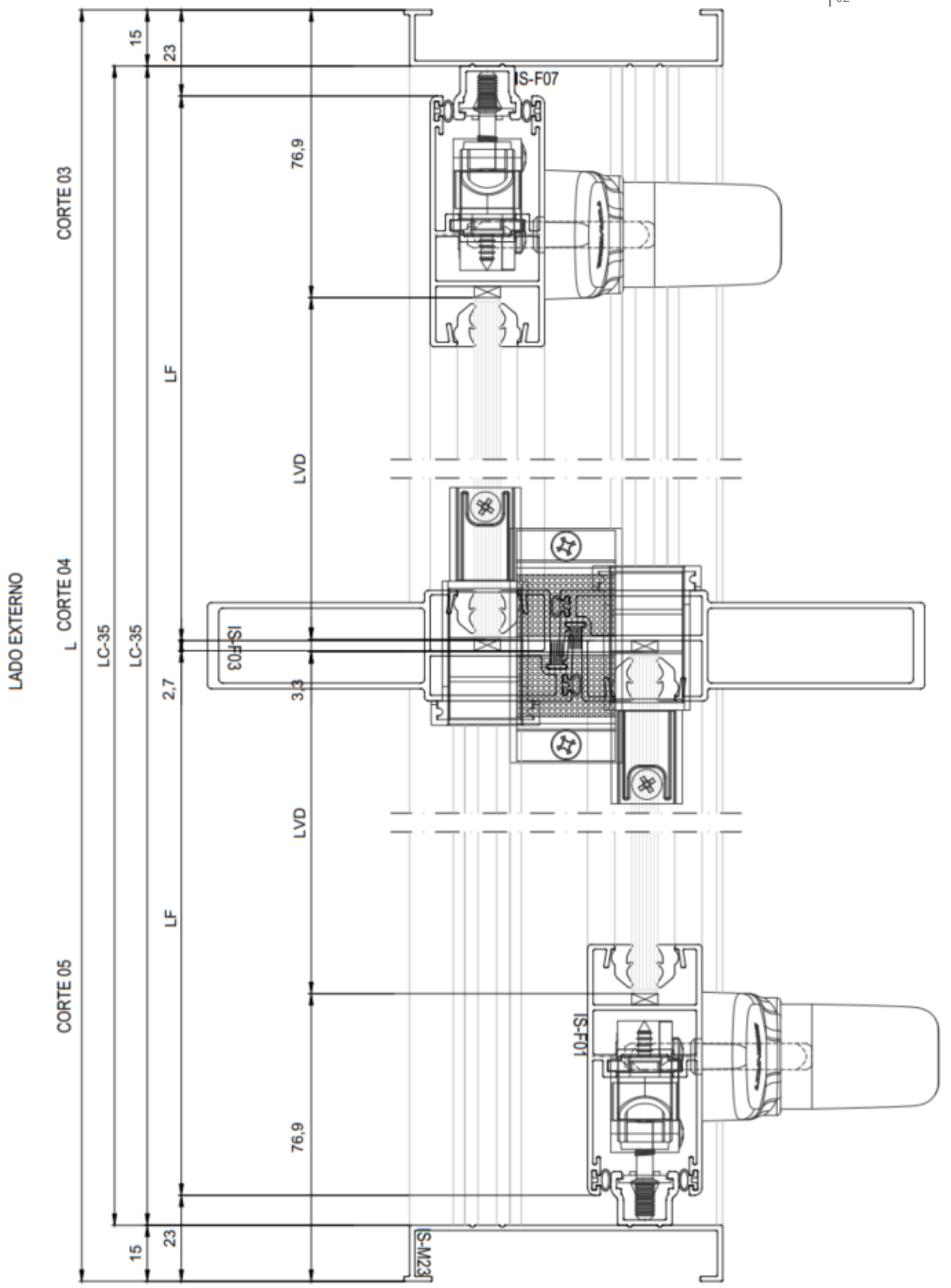
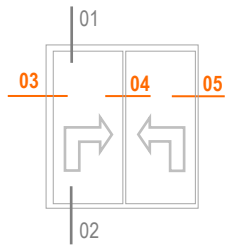
Porta de Alçar e Correr 02 Folhas

sem escala



Porta de Alçar e Correr 02 Folhas

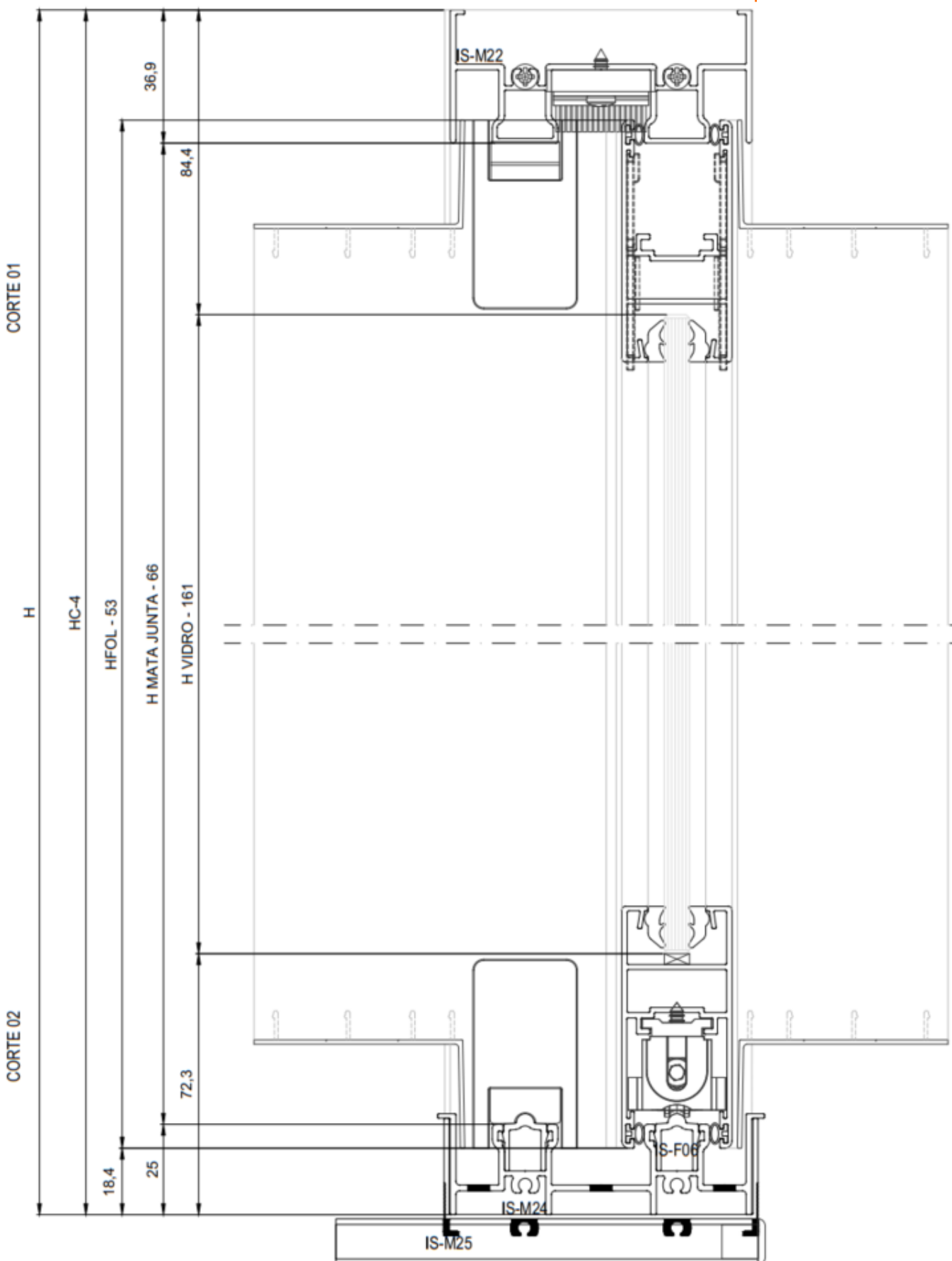
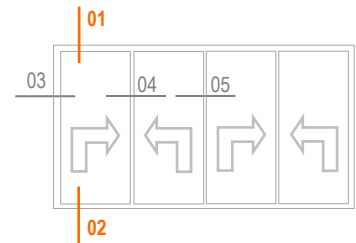
sem escala



*dimensões em milímetros

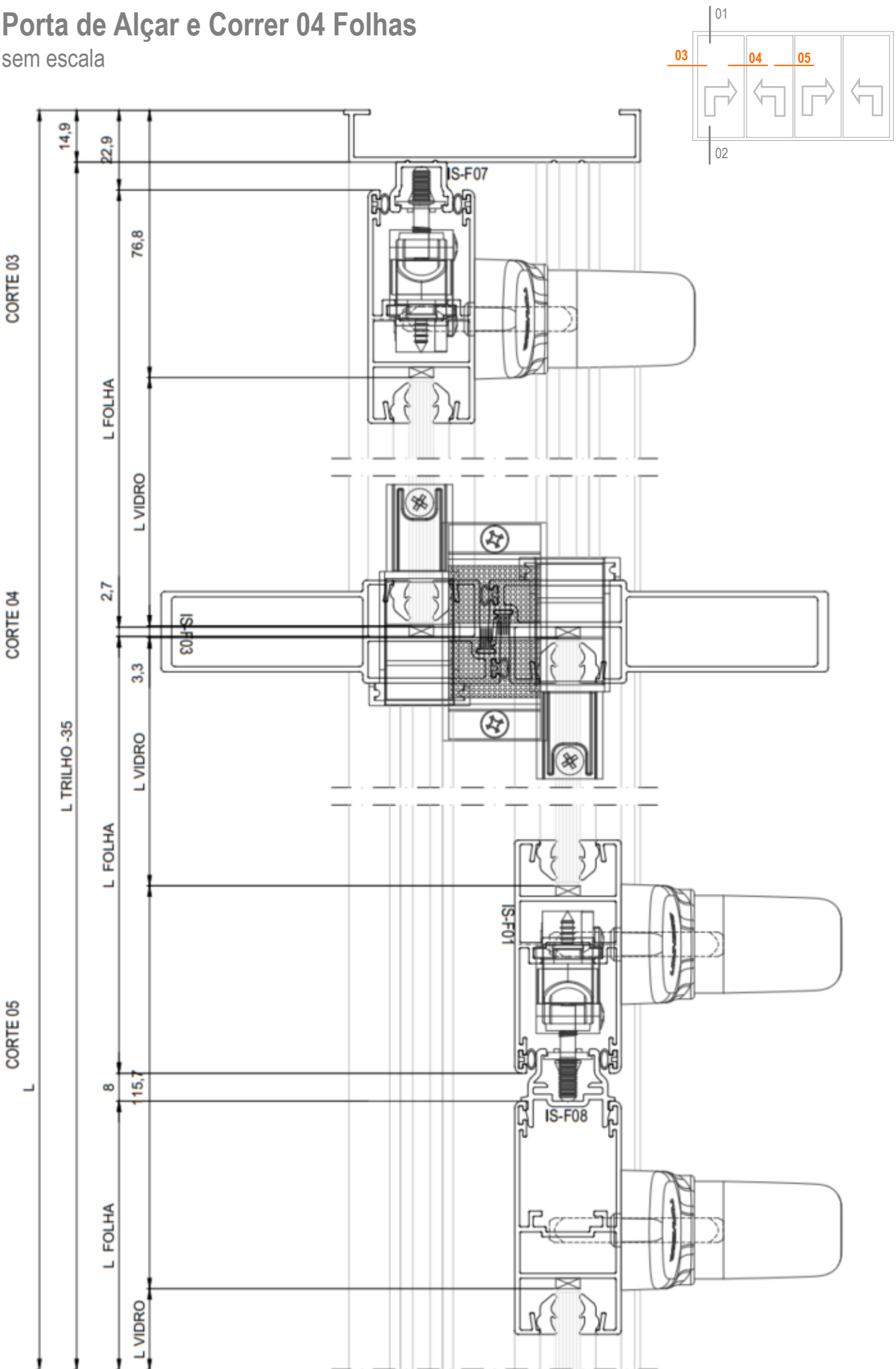
Porta de Alçar e Correr 04 Folhas

sem escala

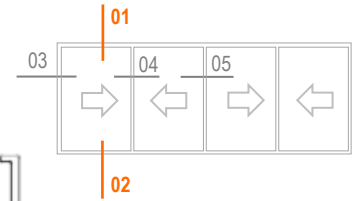


Porta de Alçar e Correr 04 Folhas

sem escala

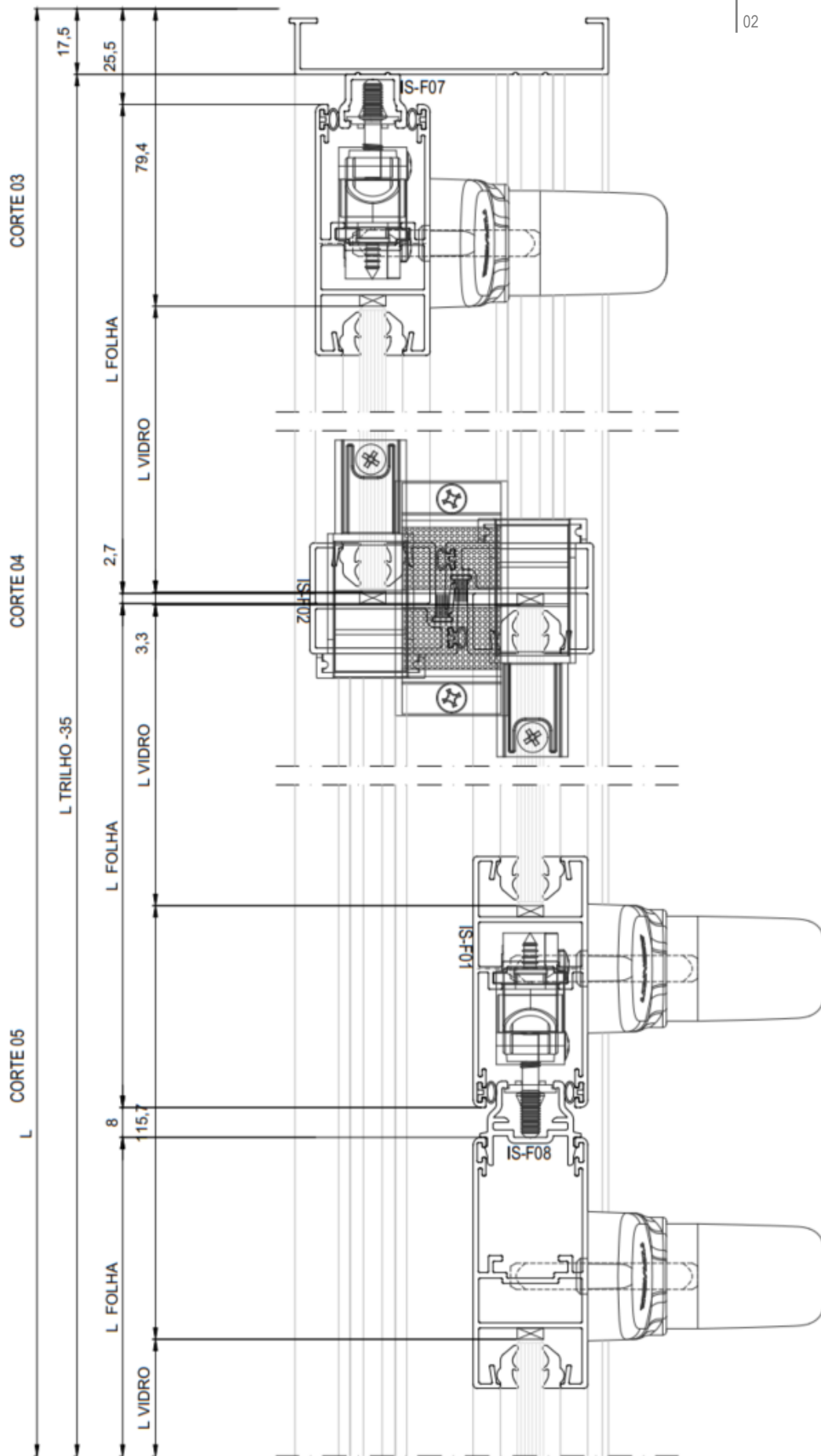
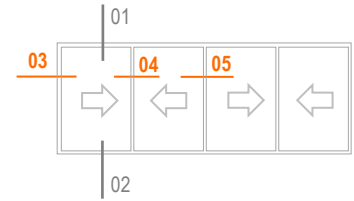


Janela de Correr 04 Folhas com fechamento Lateral e Central sem escala

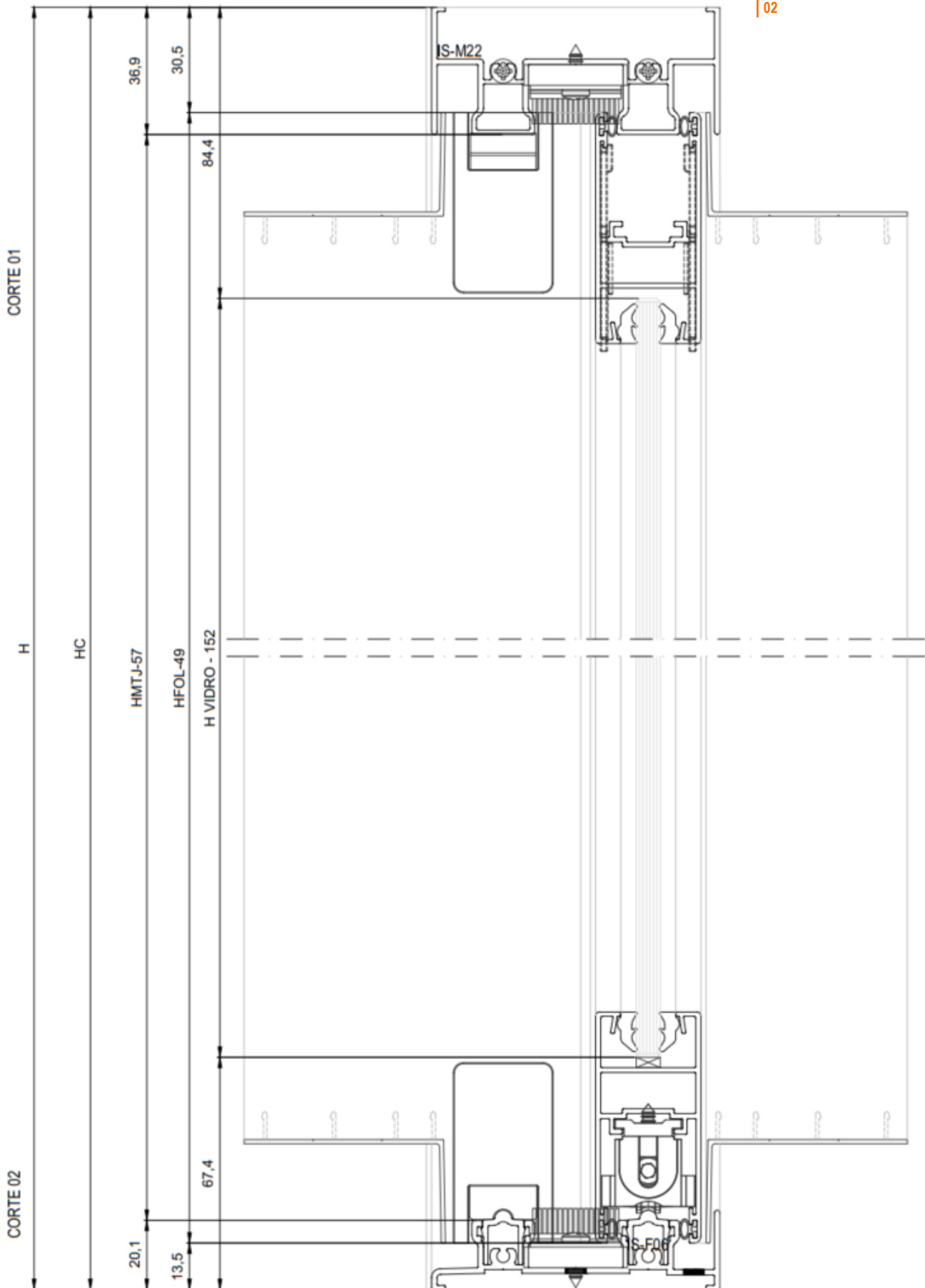
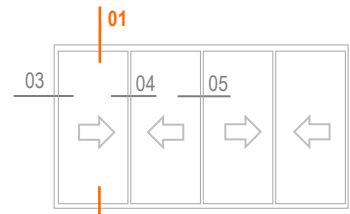


Janela de Correr 04 Folhas com fechamento Lateral e Central

sem escala

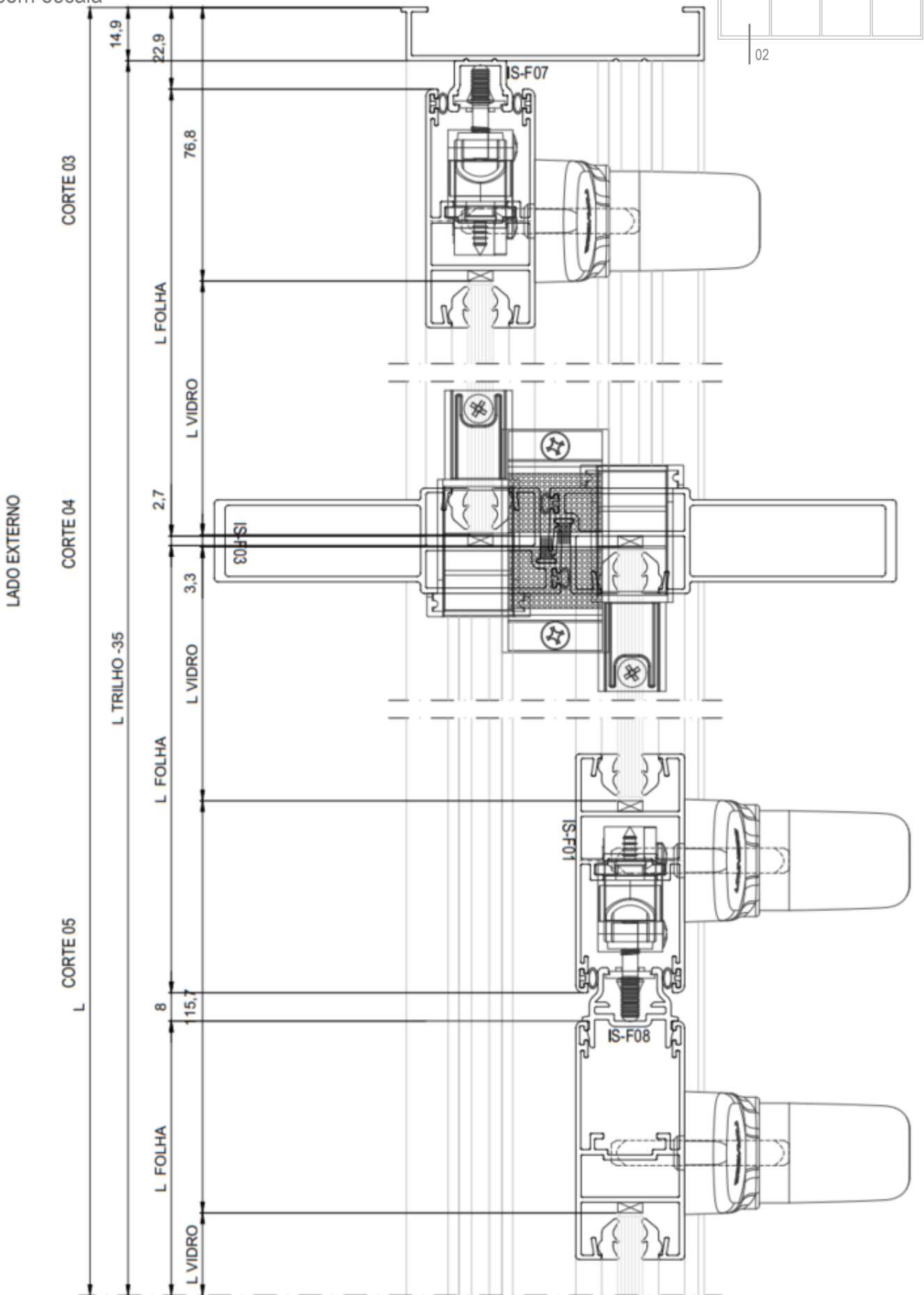


Porta de Correr 04 Folhas com fechamento Lateral e Central sem escala



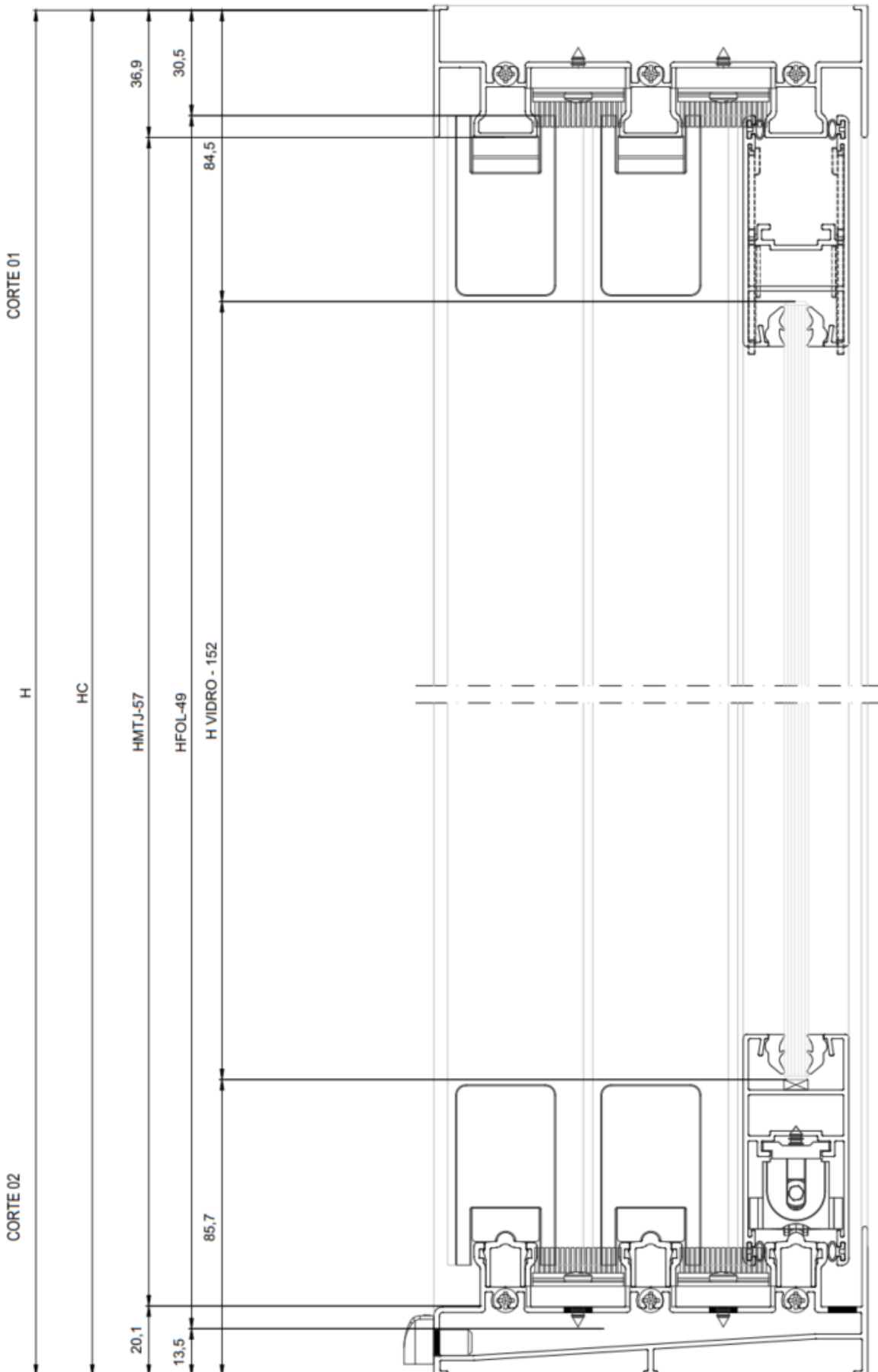
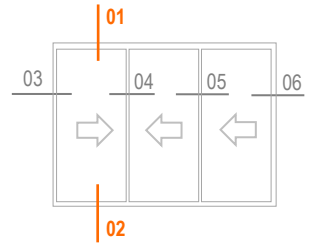
Porta de Correr 04 Folhas com fechamento Lateral e Central

sem escala



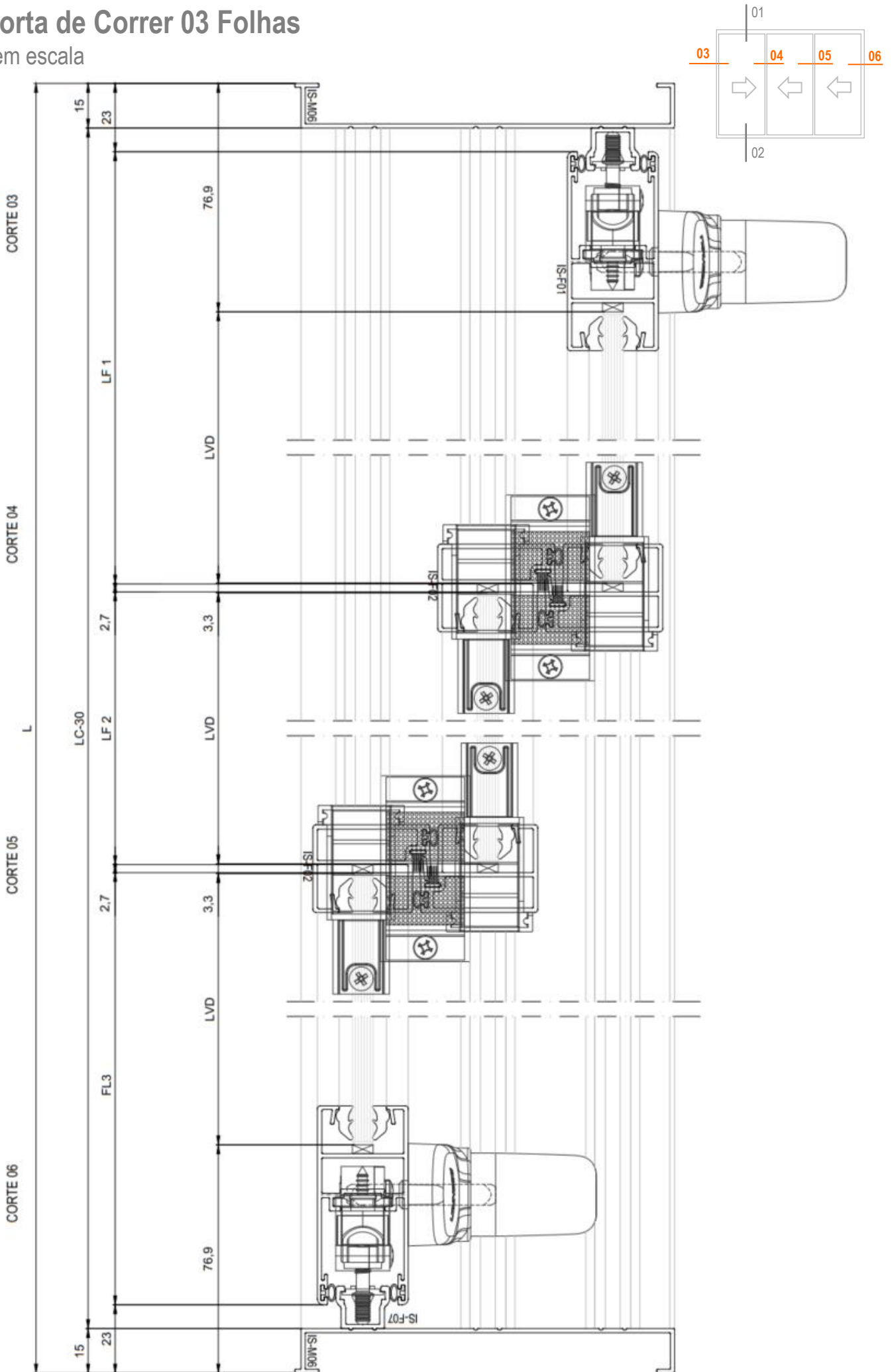
Janela de Correr 03 Folhas

sem escala



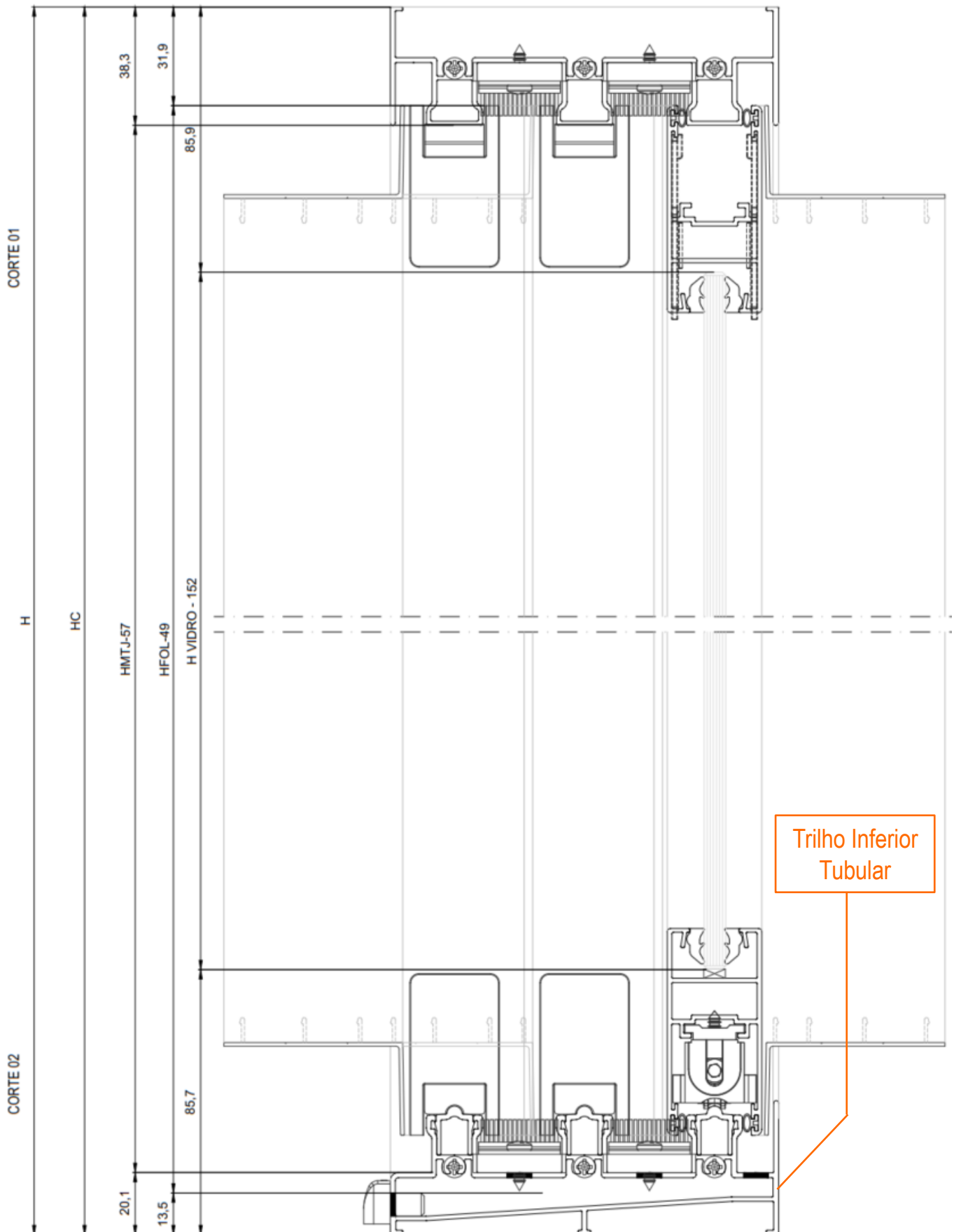
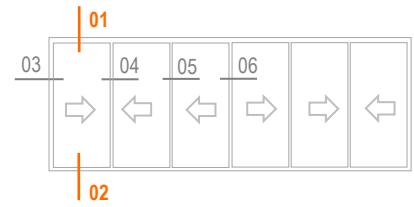
Porta de Correr 03 Folhas

sem escala

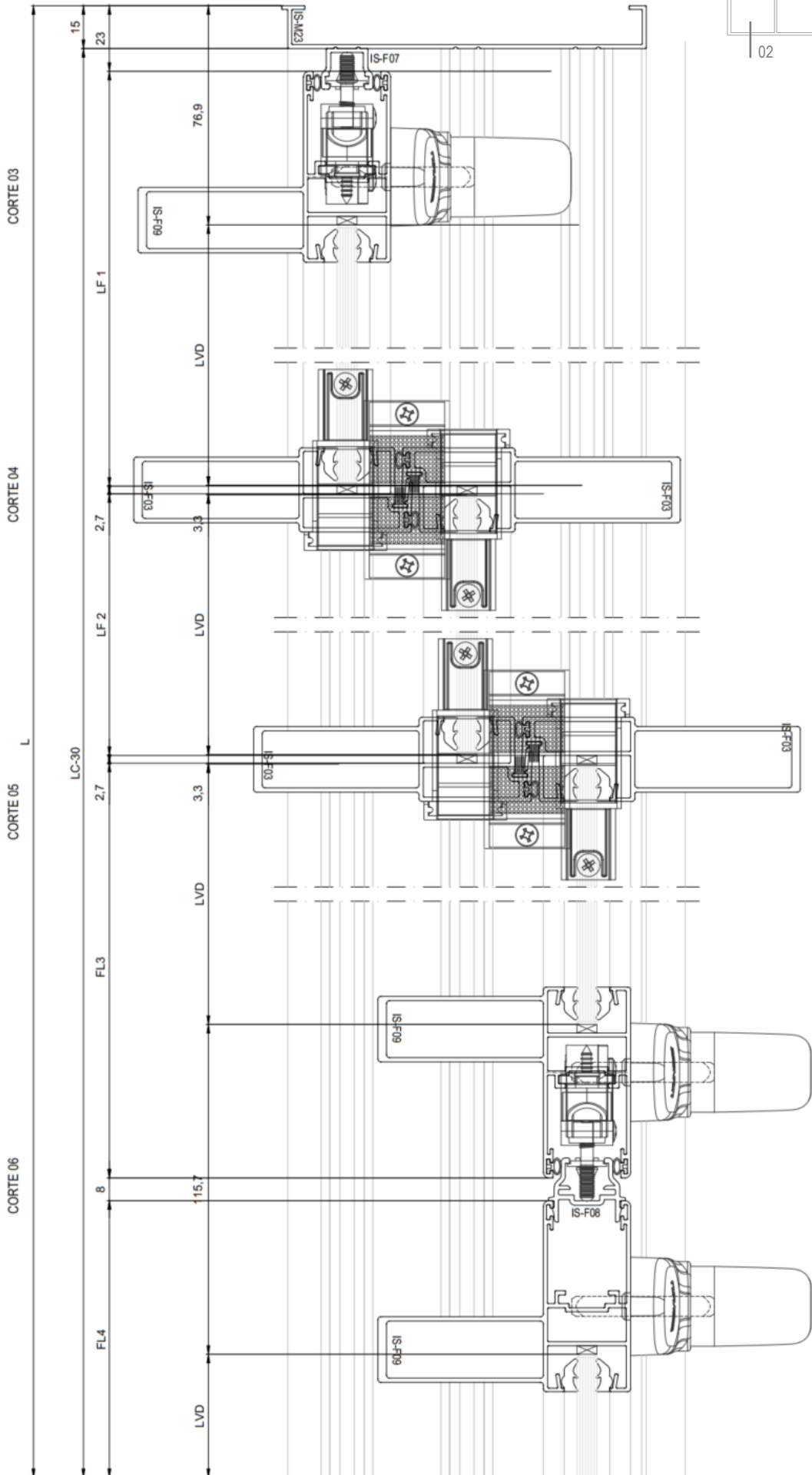
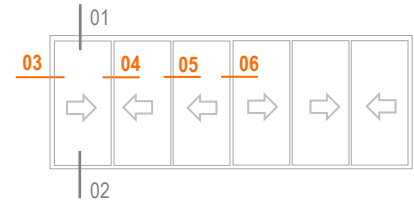


*dimensões em milímetros

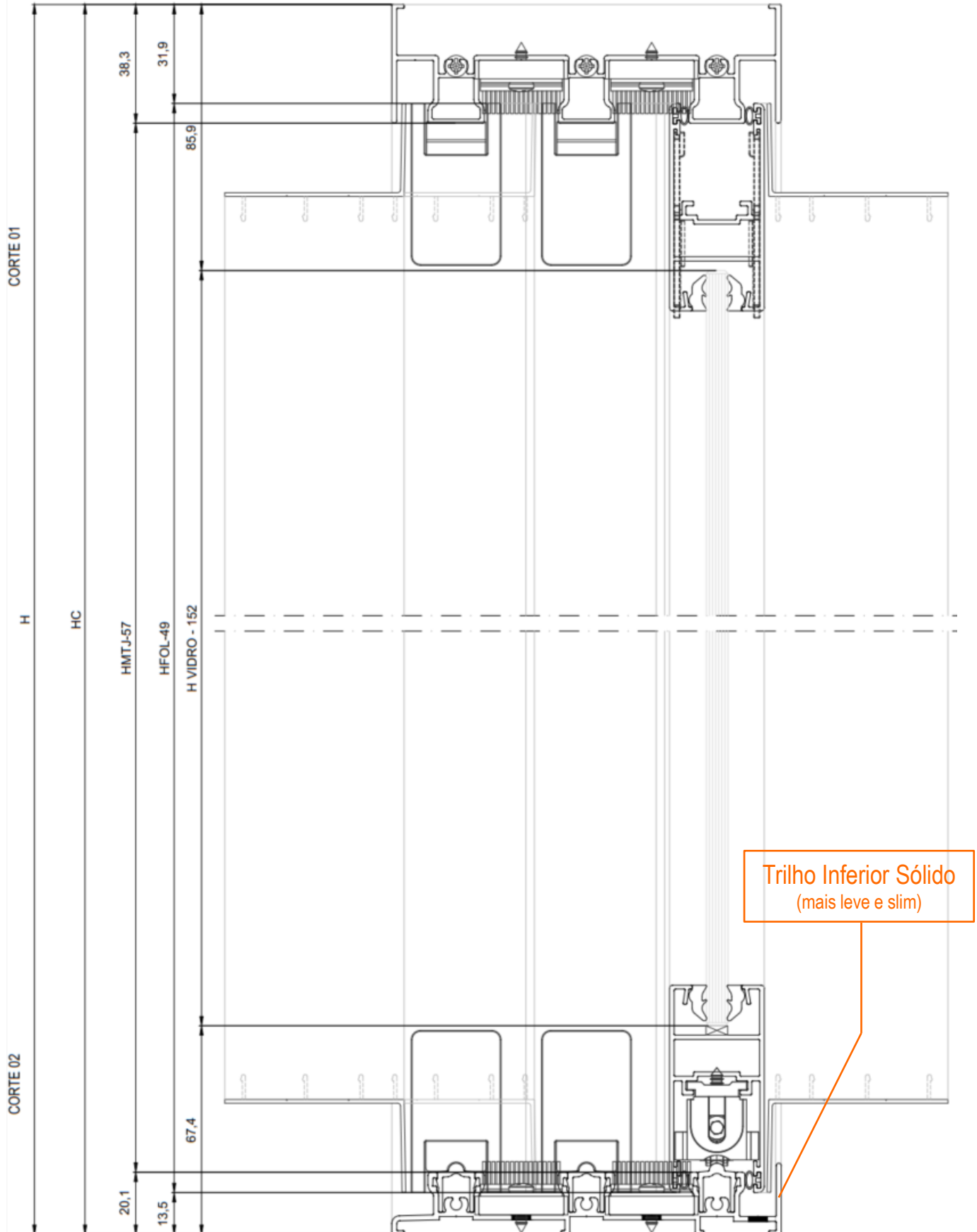
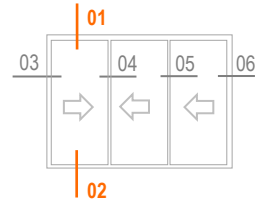
Porta de Correr 06 Folhas em 03 trilhos
sem escala



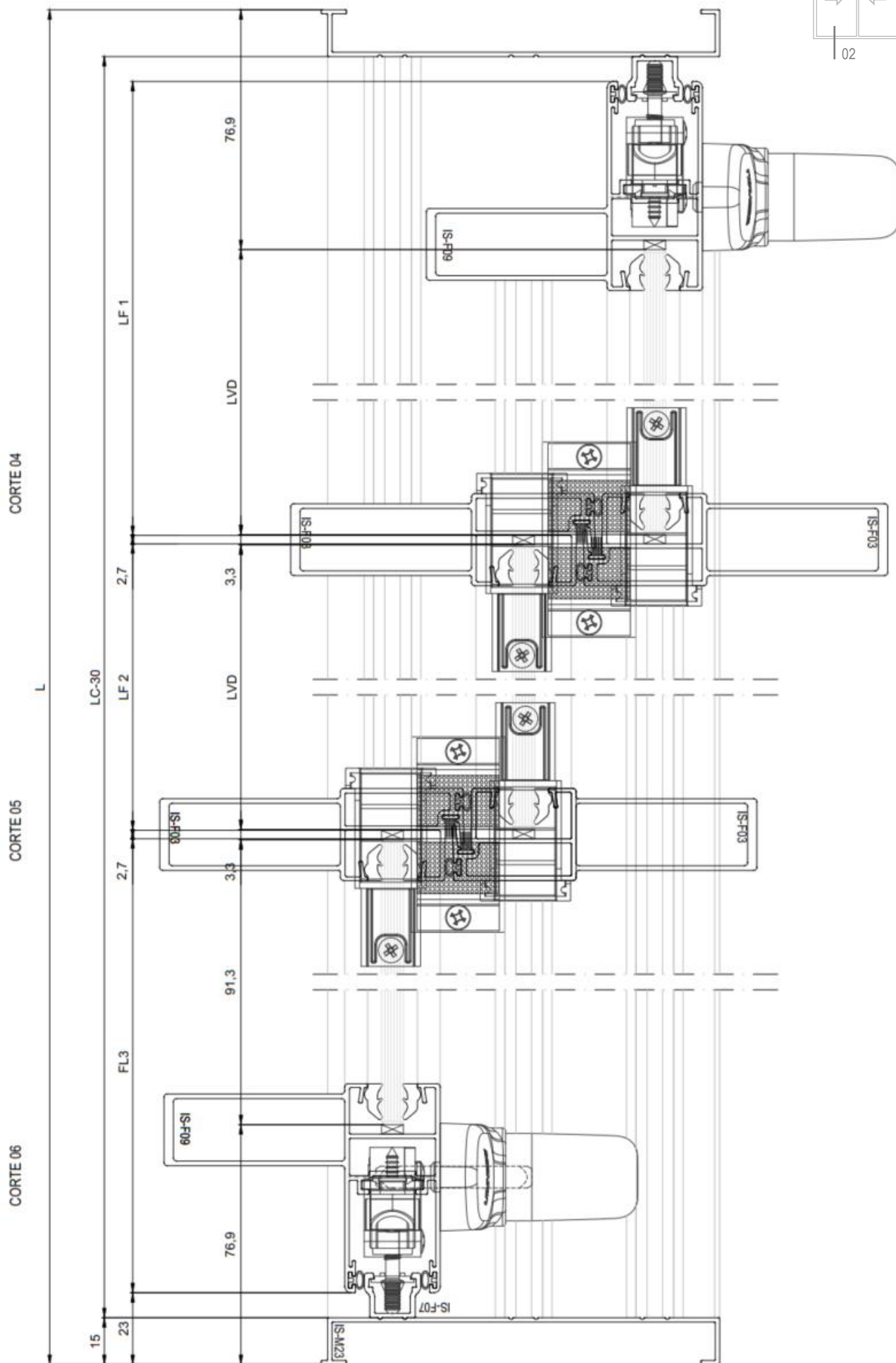
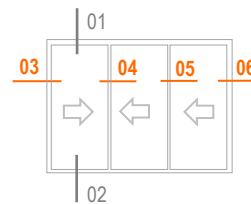
Porta de Correr 06 Folhas em 03 trilhos
sem escala



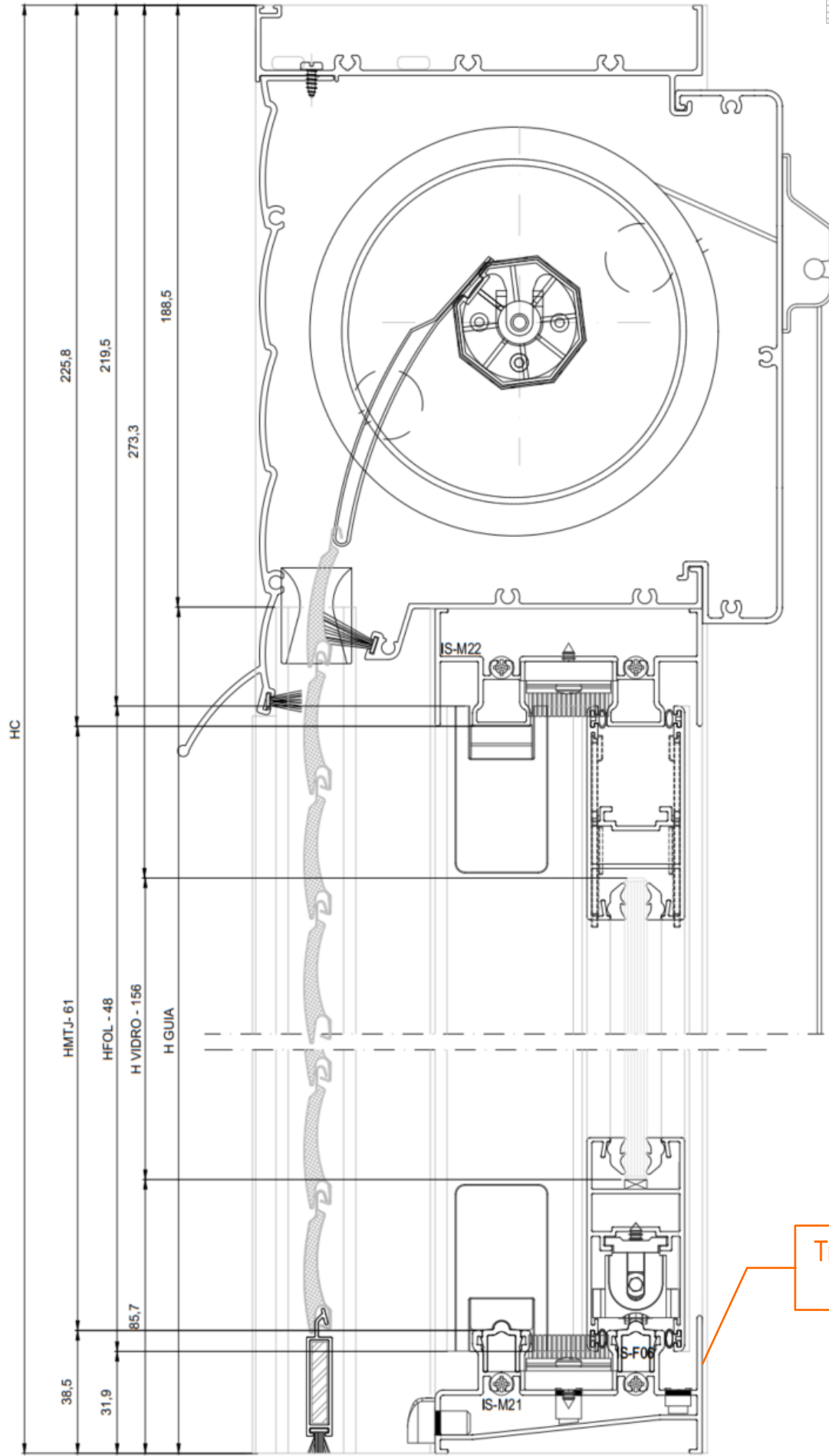
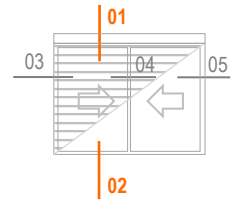
Porta de Correr 03 Folhas com Trilho Inferior Sólido sem escala



Porta de Correr 03 Folhas com Trilho Inferior Sólido sem escala

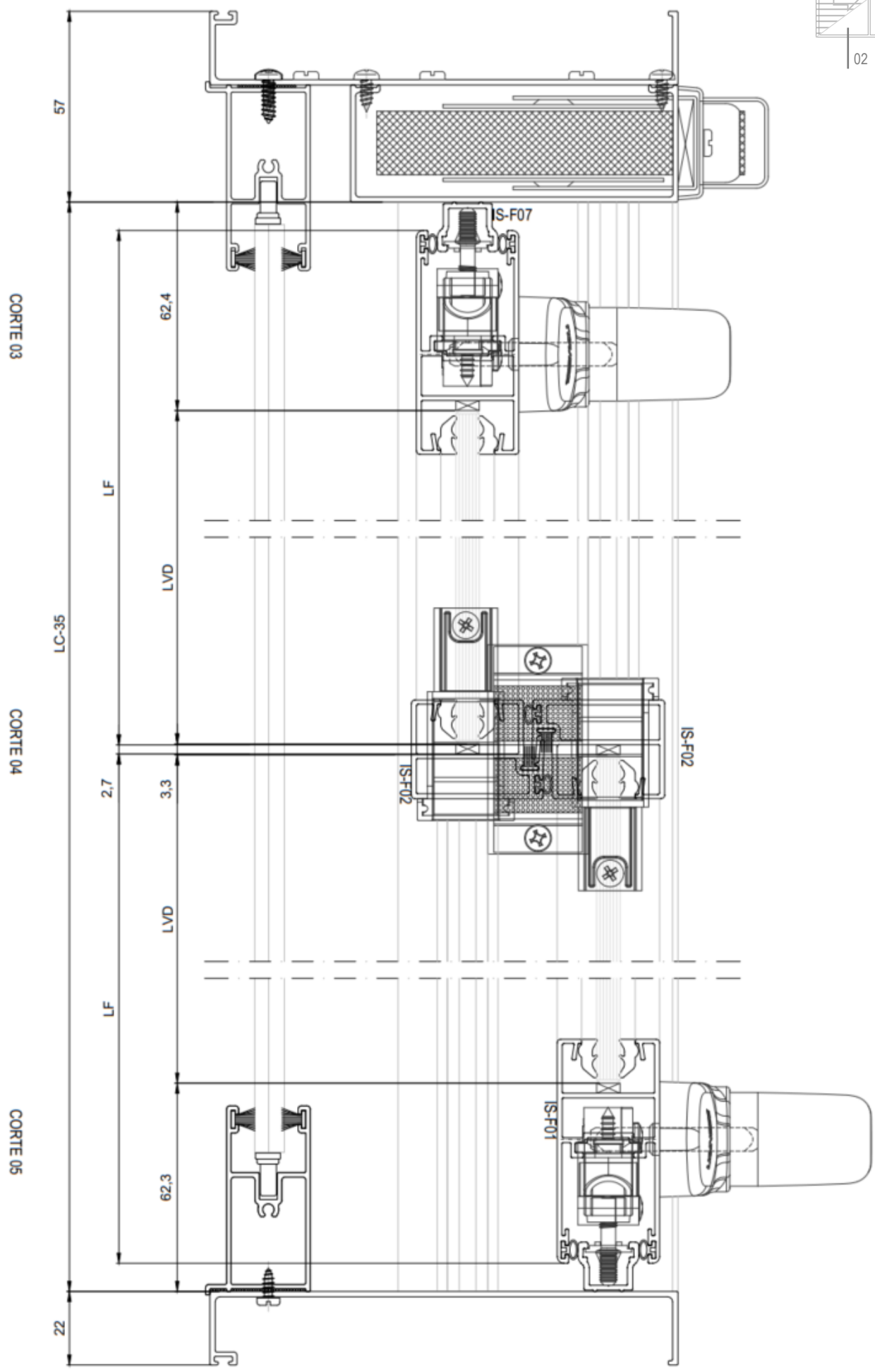
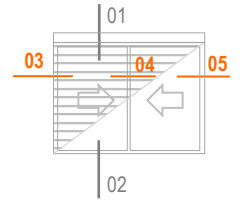


Janela de Correr 02 folhas com Persiana Integrada sem escala



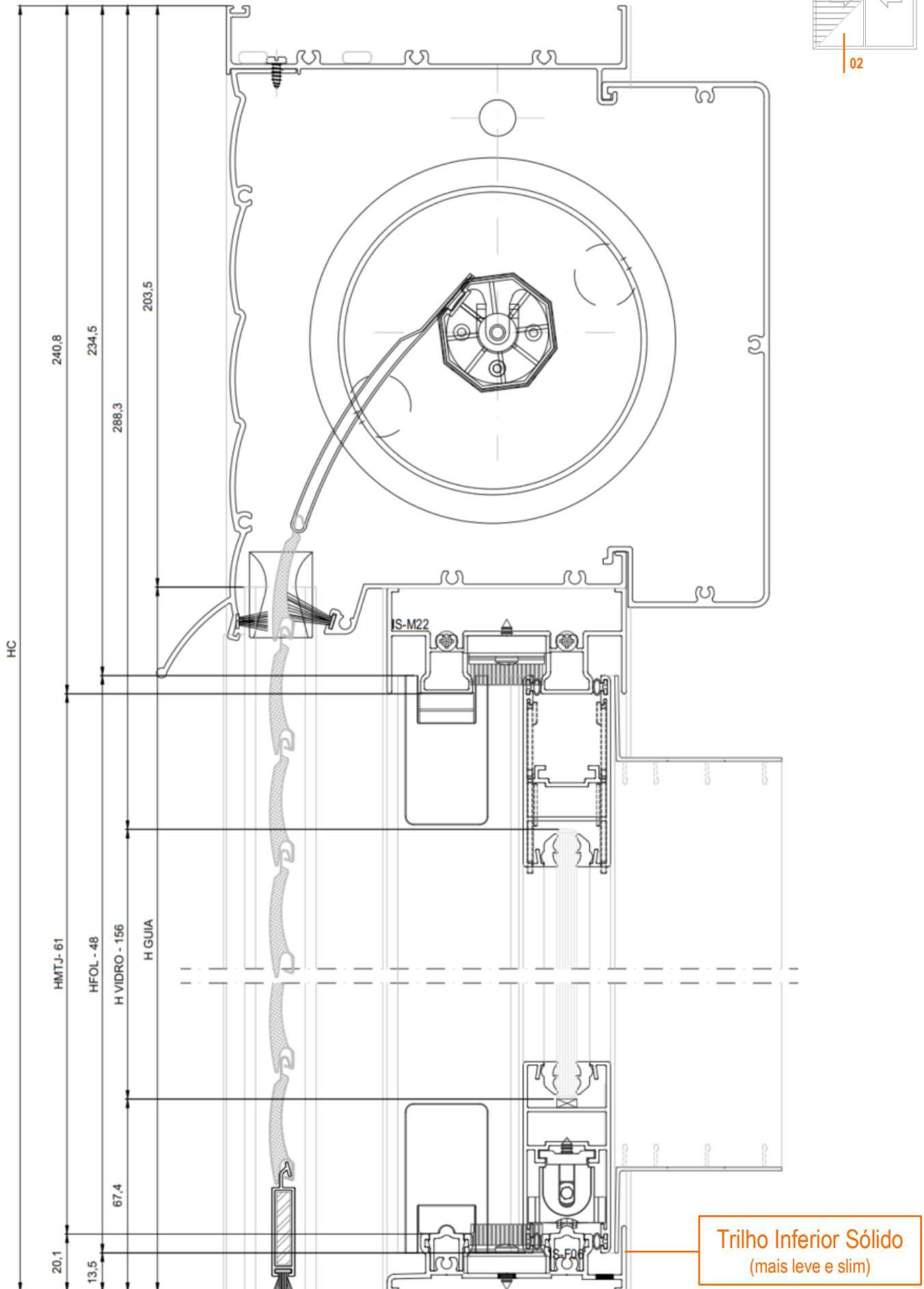
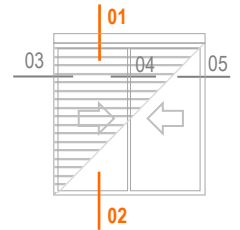
Trilho Inferior Tubular

Janela de Correr 02 folhas com Persiana Integrada sem escala



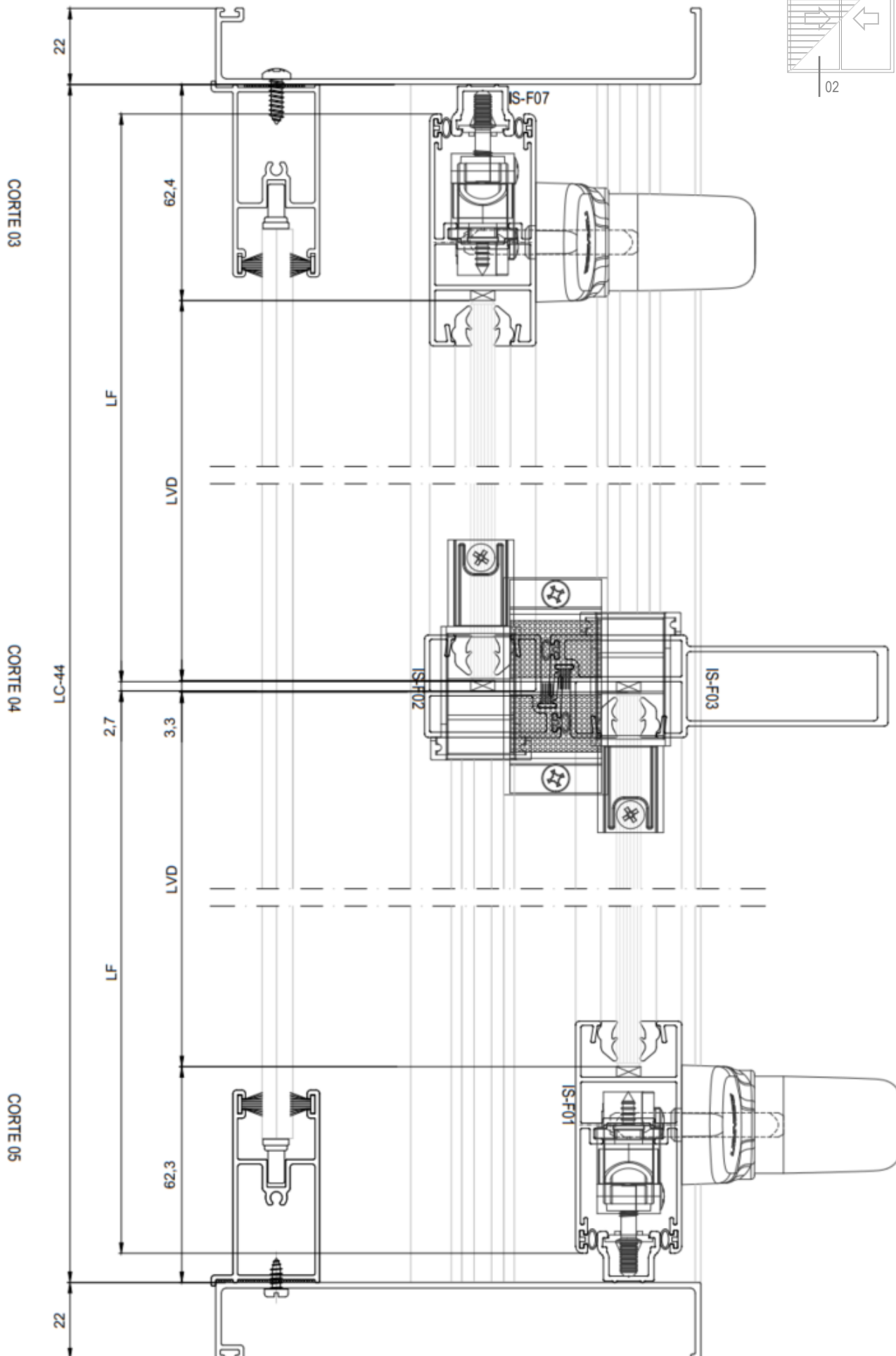
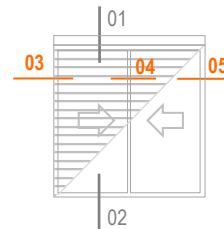
*dimensões em milímetros

Porta de Correr 02 Folhas com Persiana Integrada
sem escala

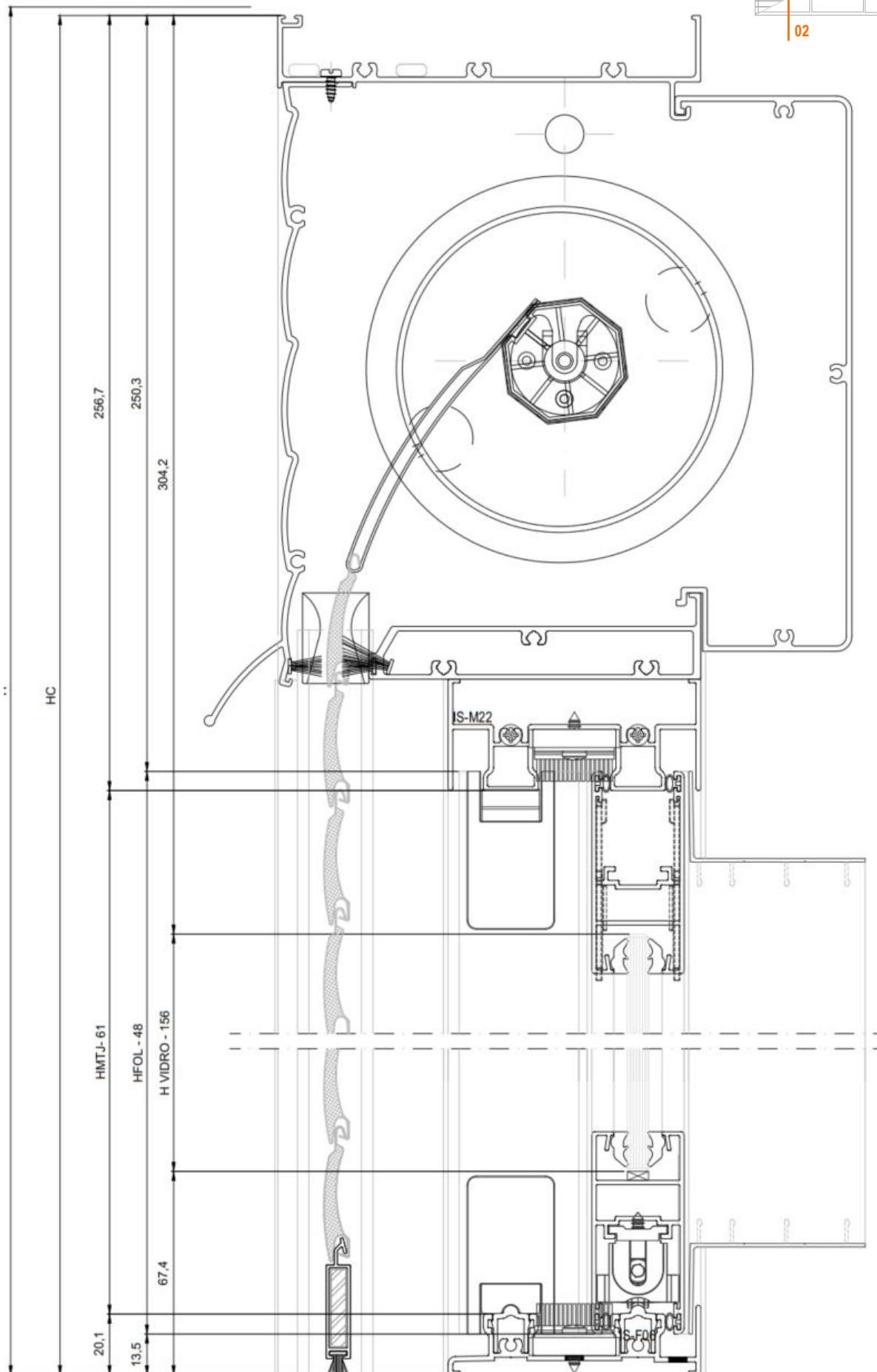
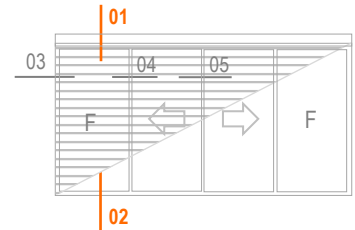


Porta de Correr 02 Folhas com Persiana Integrada

sem escala

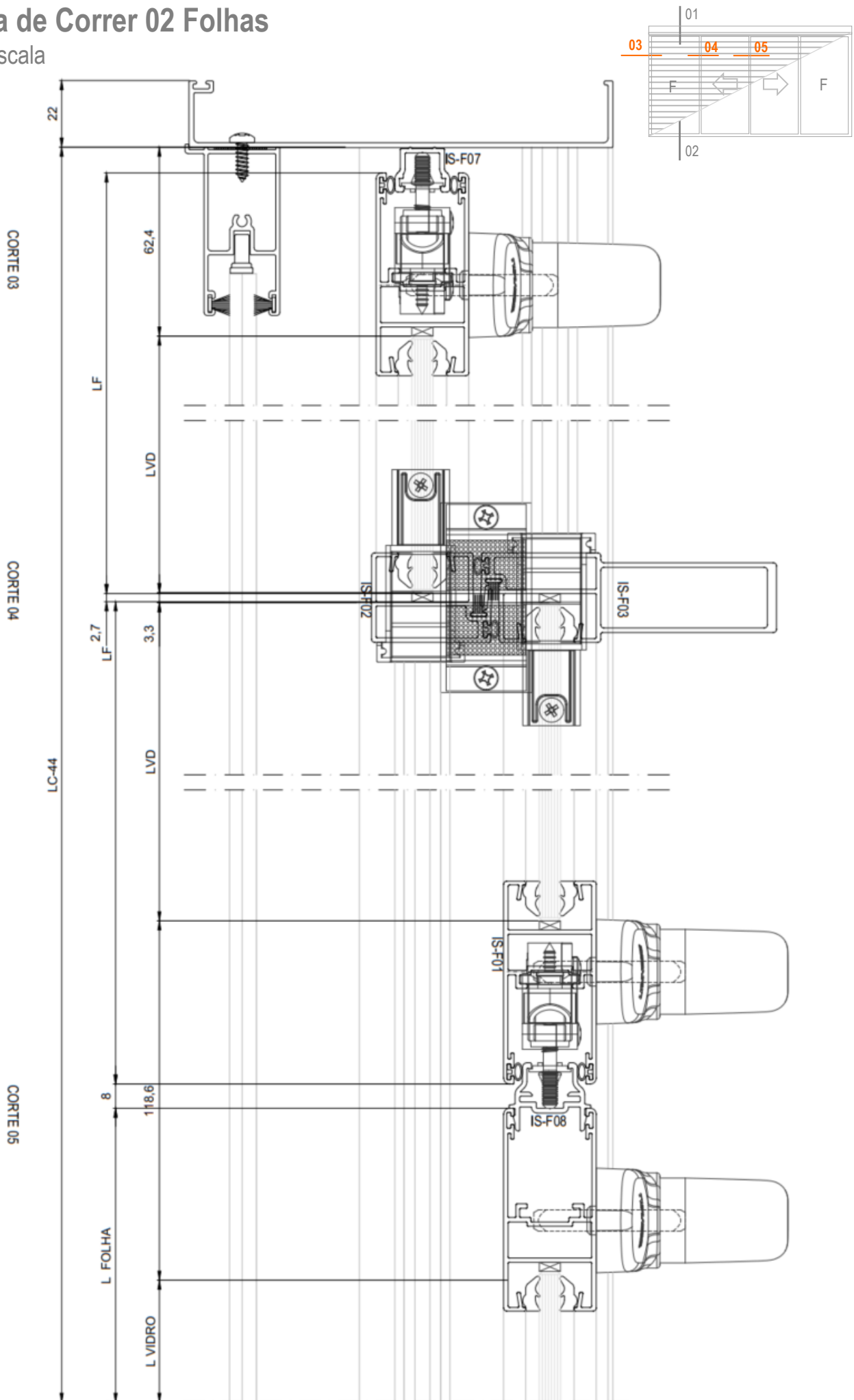


Porta de Correr 04 Folhas com Persiana Integrada sem escala



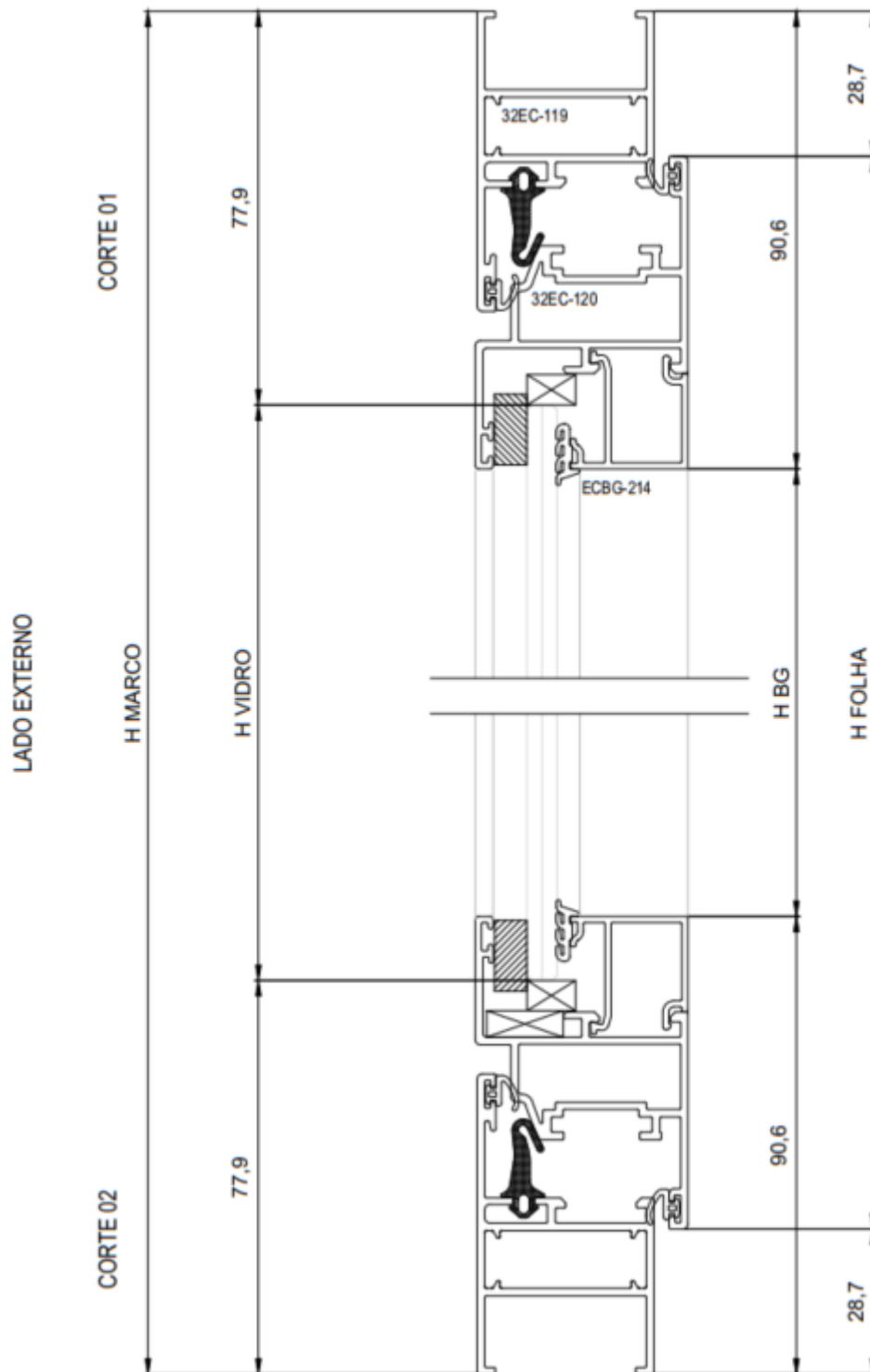
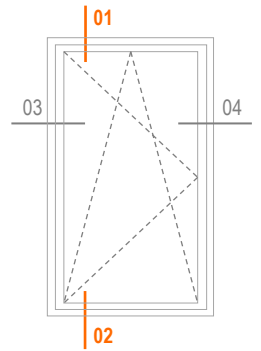
Porta de Correr 02 Folhas

sem escala



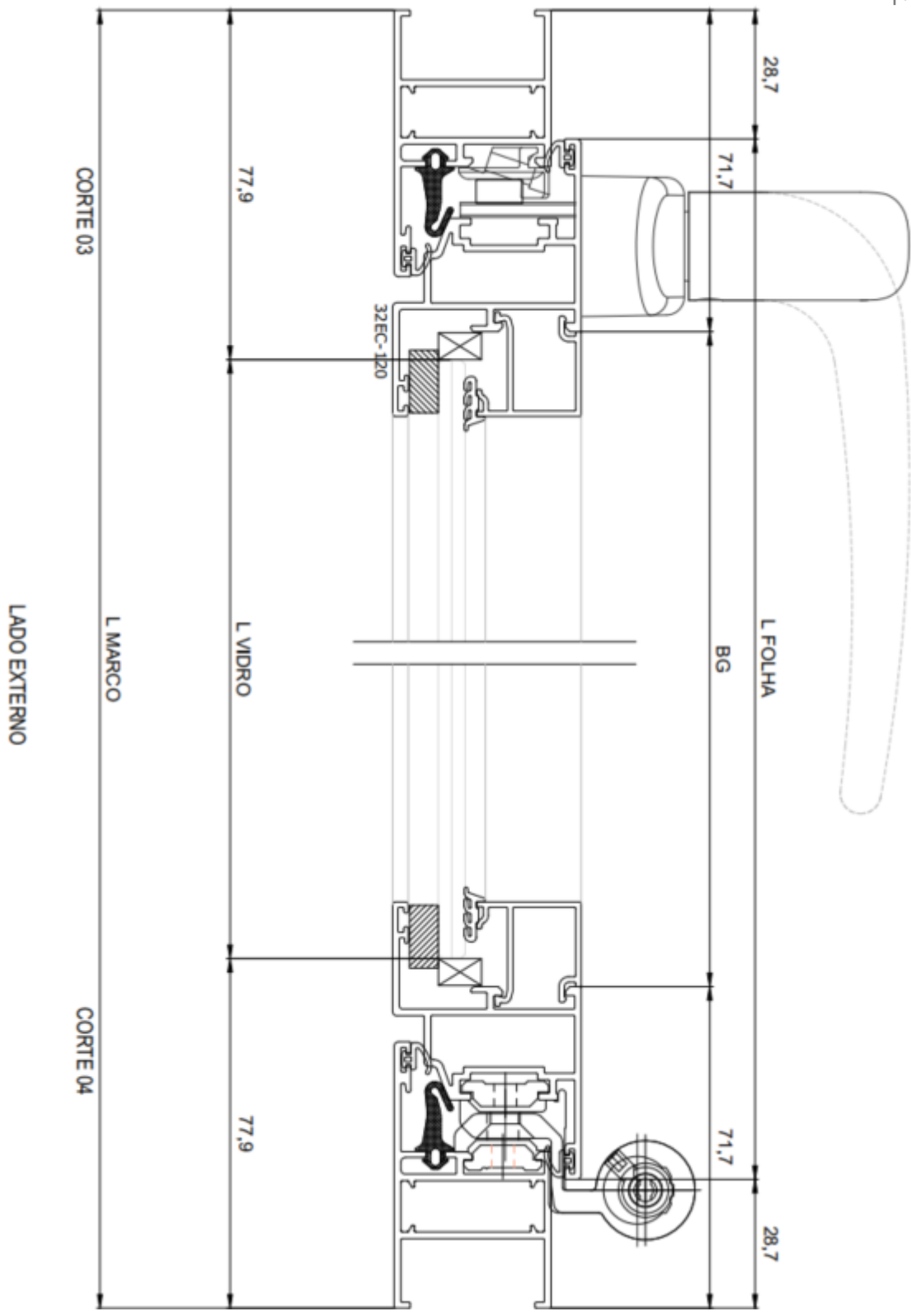
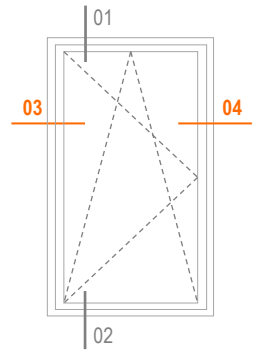
Janela Oscilo Batente 01 folha

sem escala



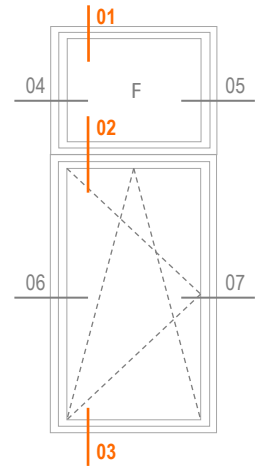
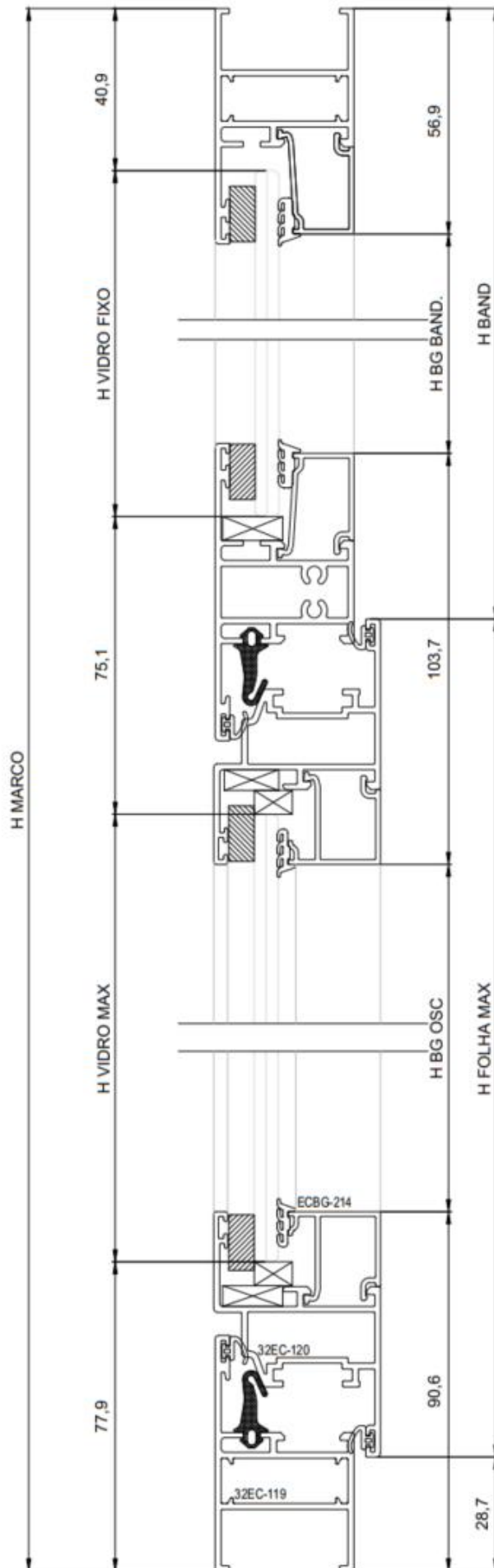
Janela Oscilo Batente 01 folha

sem escala



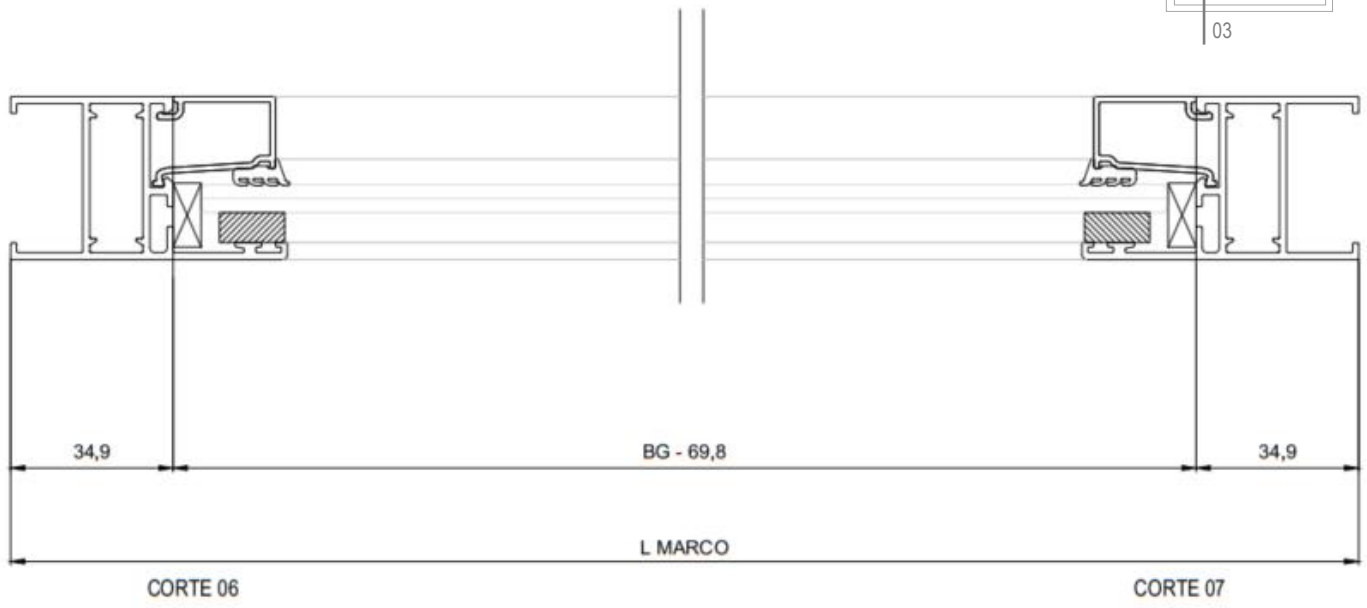
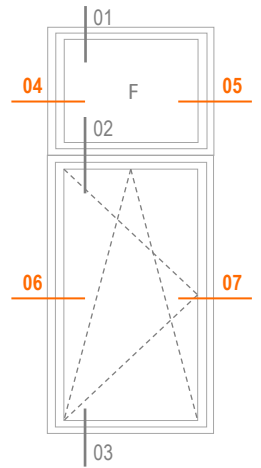
Janela Oscilo Batente com Bandeira Fixa

sem escala

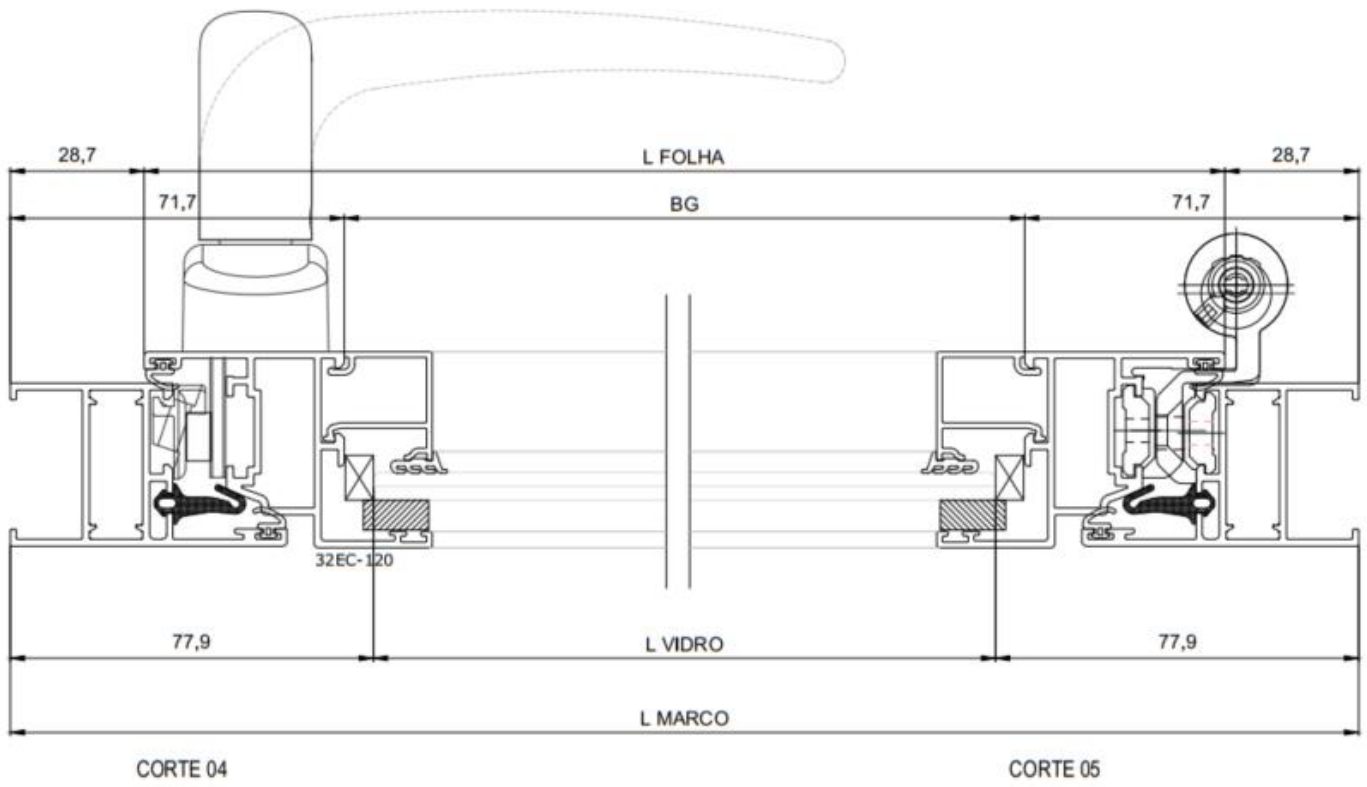


Janela Oscilo Batente com Bandeira Fixa

sem escala

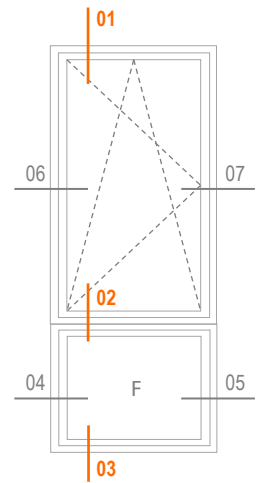
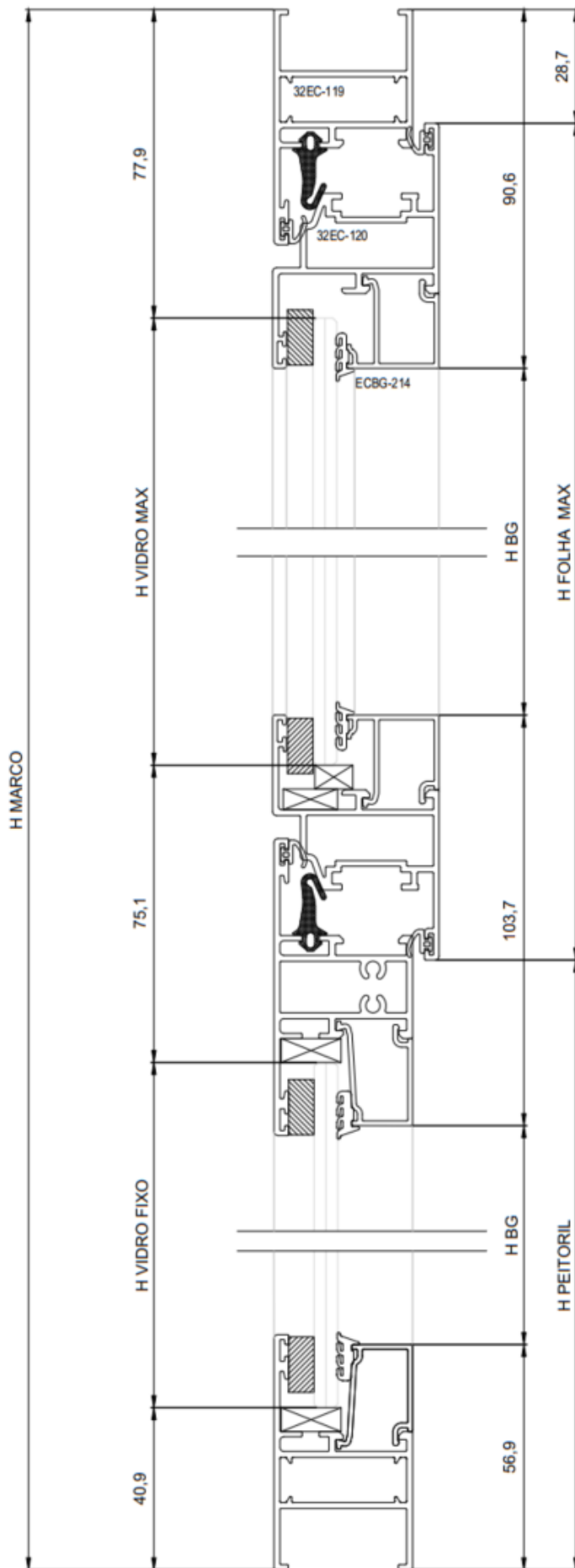


LADO EXTERNO



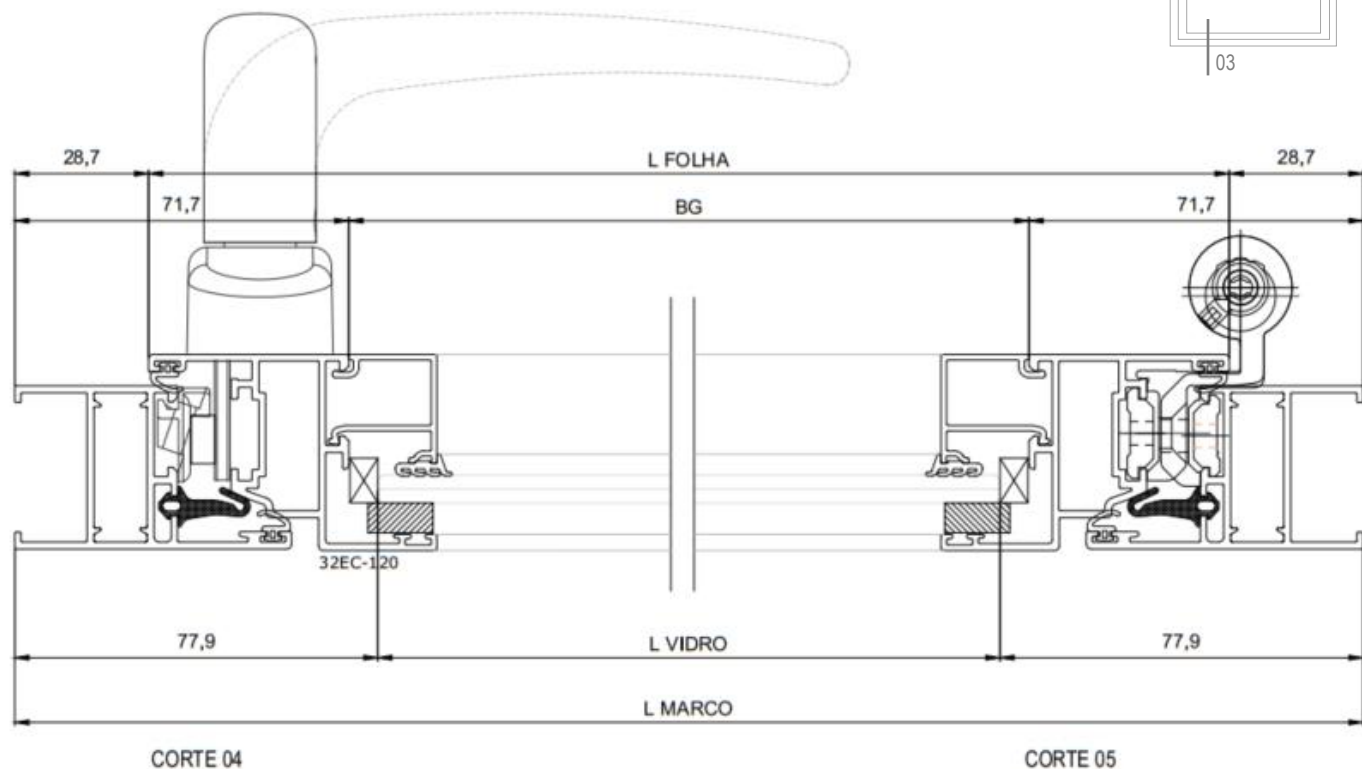
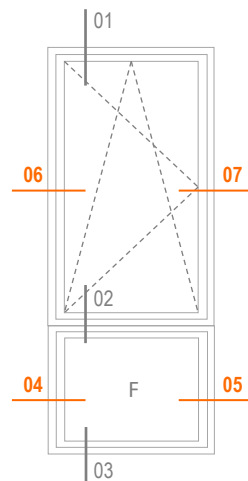
Janela Oscilo Batente com Peitoril Fixo

sem escala

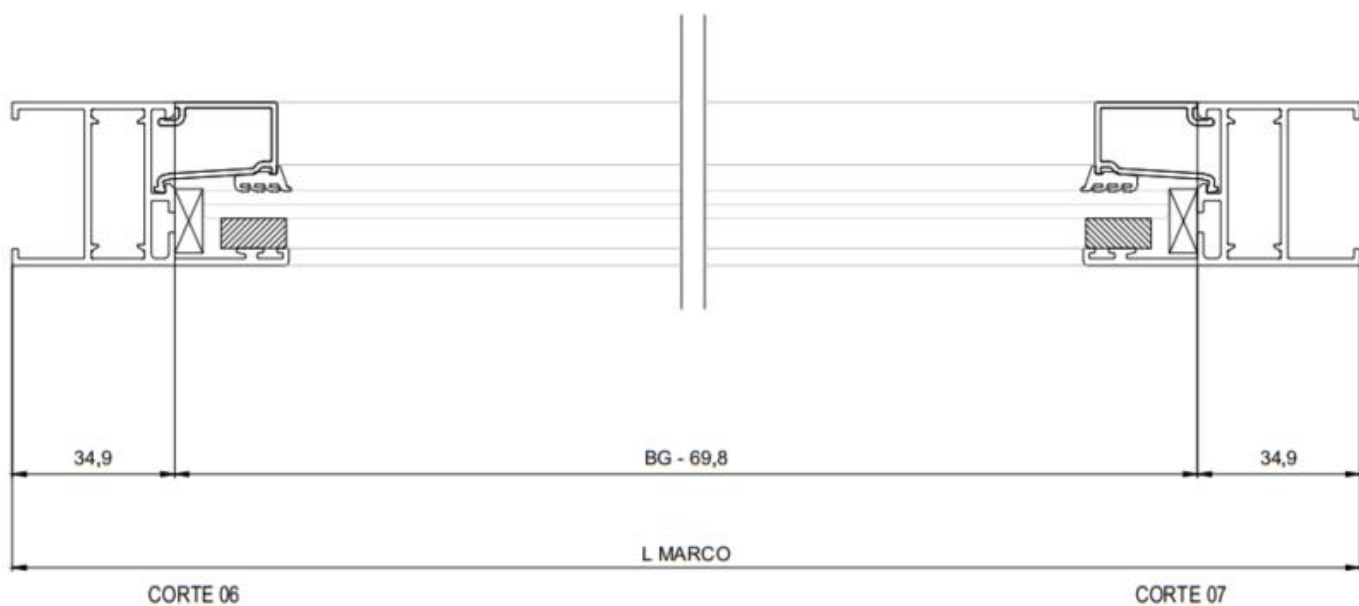


Janela Oscilo Batente com Peitoril Fixo
sem escala

sem escala

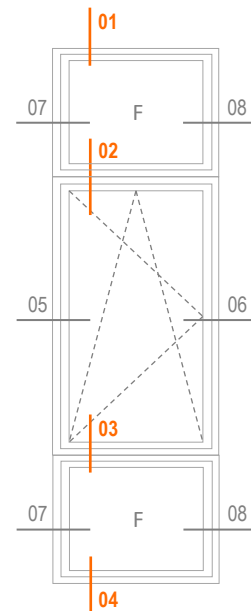
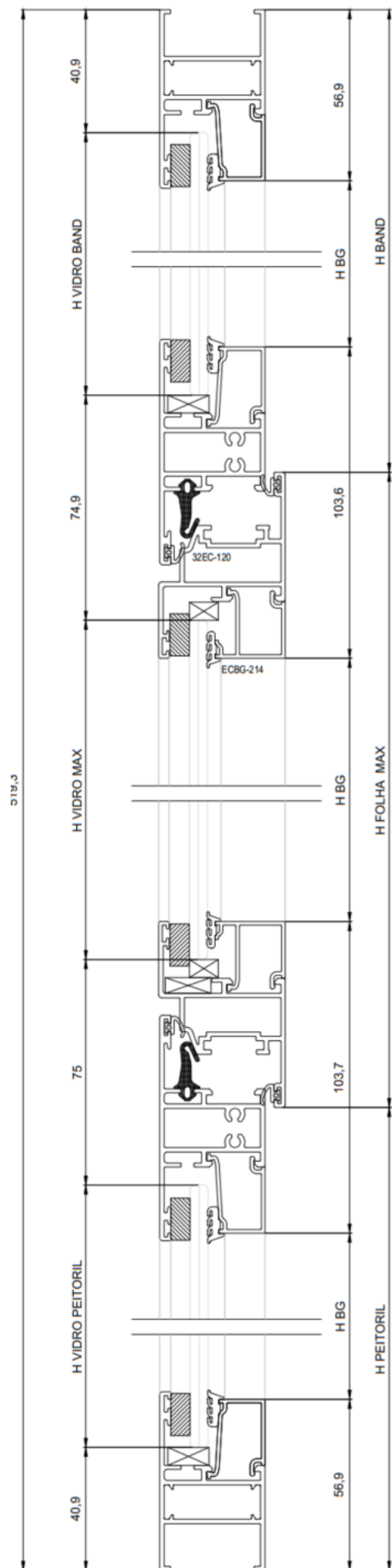


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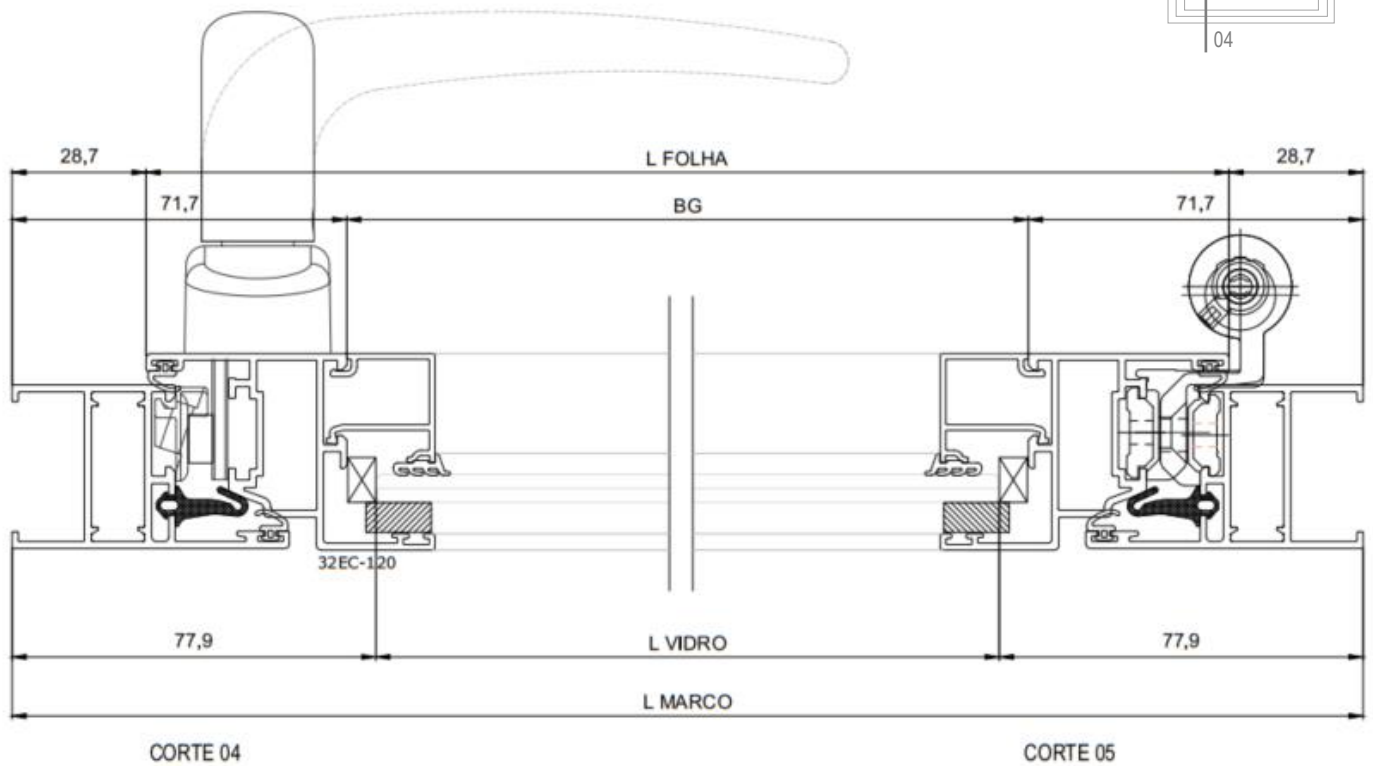
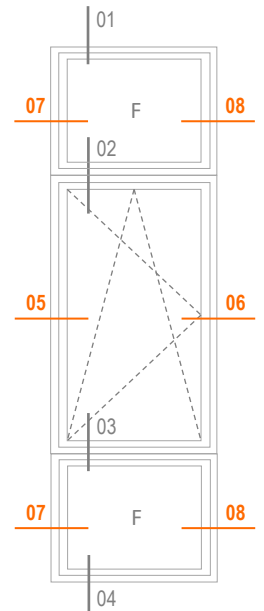
Janela Oscilo Batente com Bandeira e Peitoril

sem escala

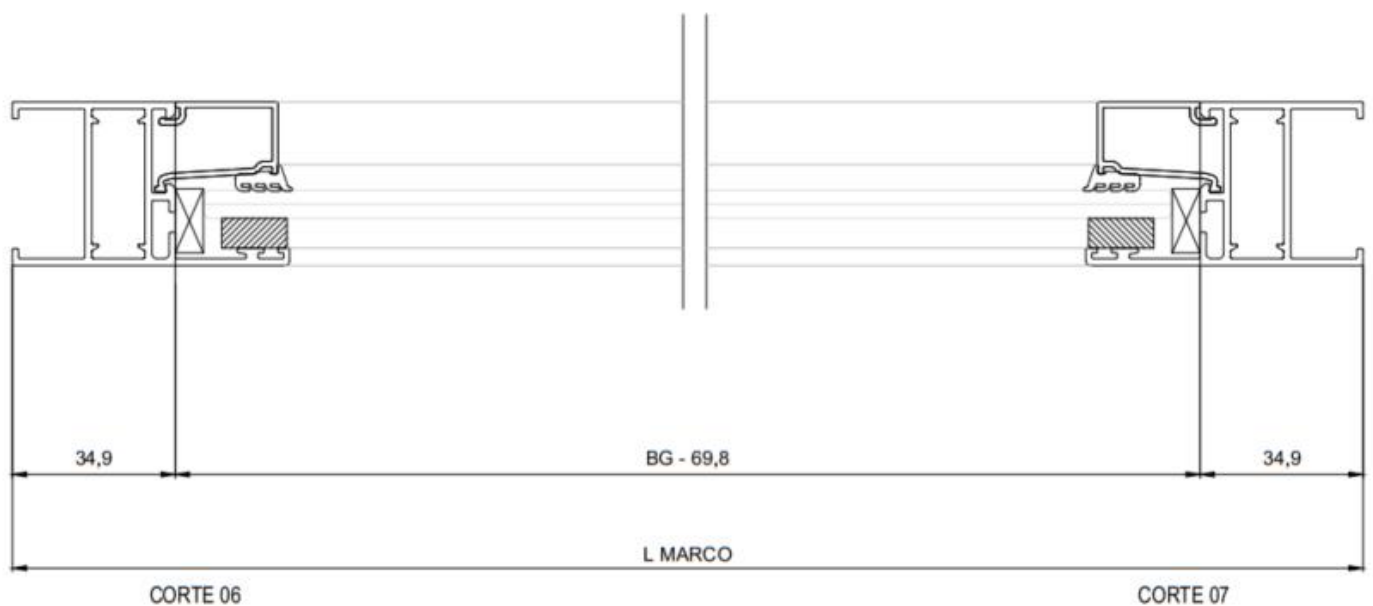


Janela Oscilo Batente com Bandeira e Peitoril

sem escala

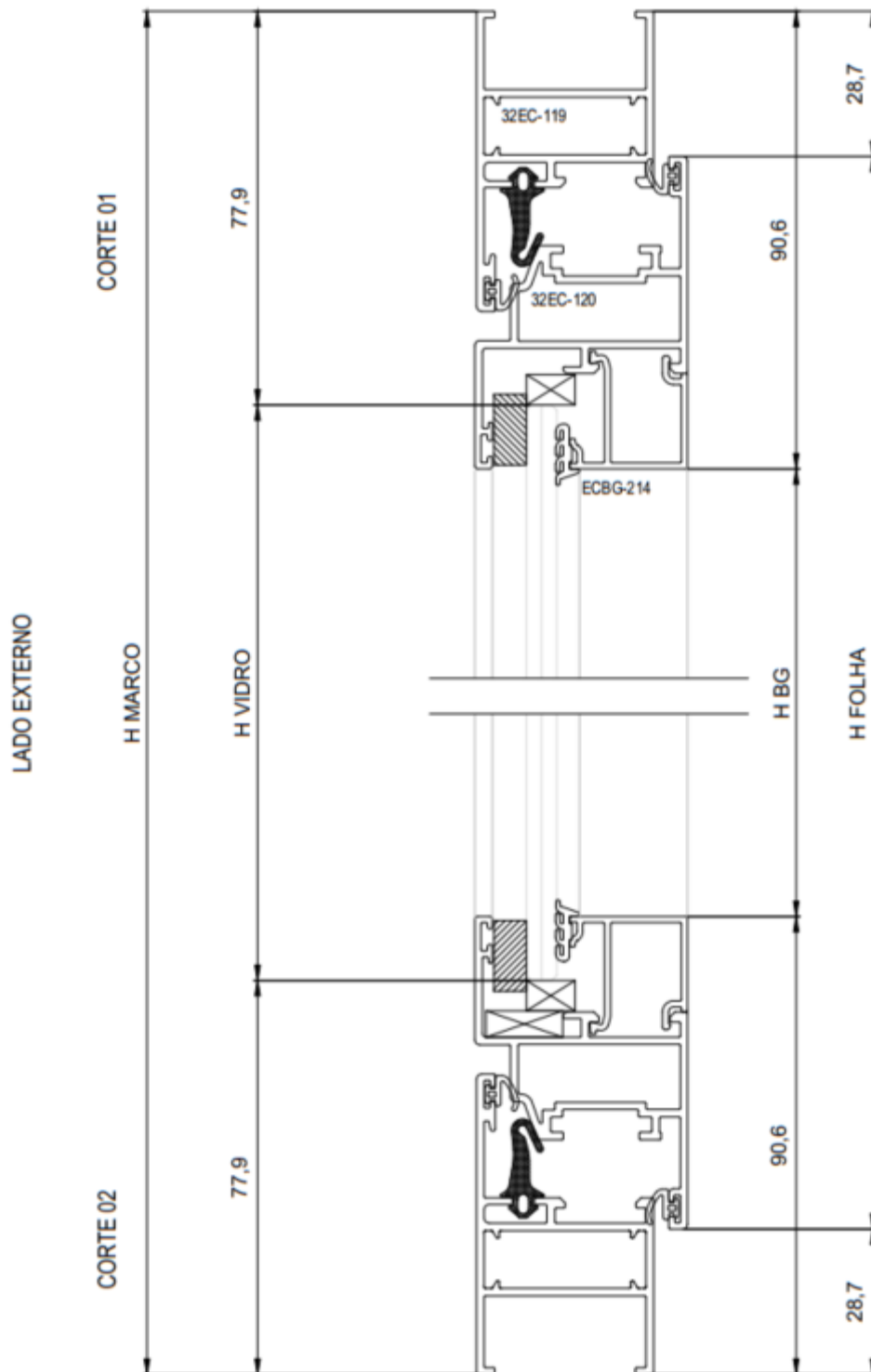
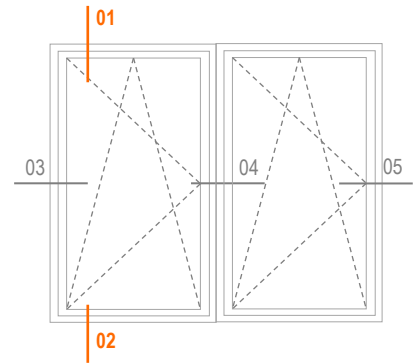


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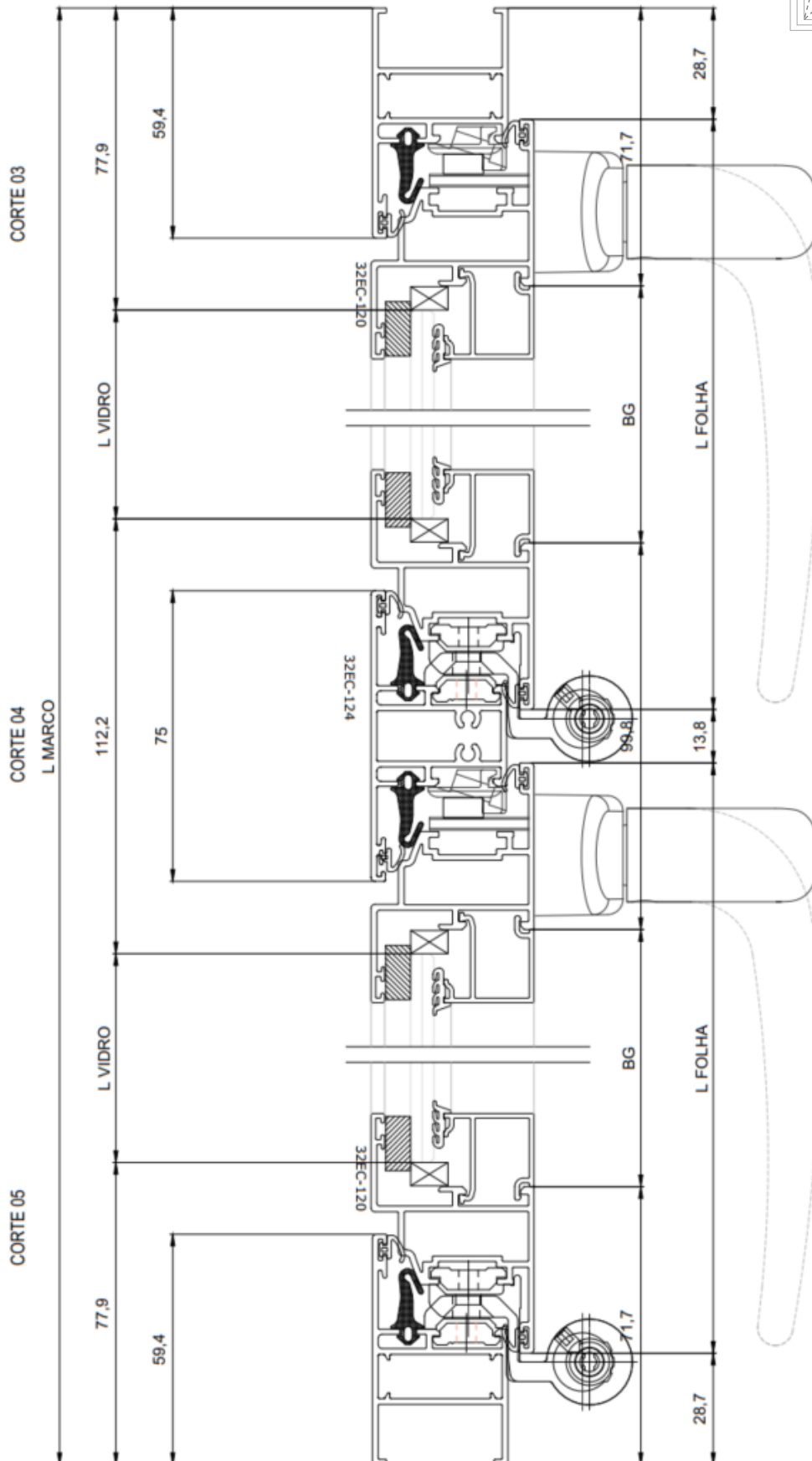
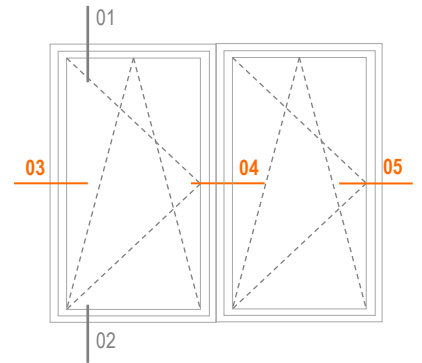
Janela Oscilo Batente 02 módulos

sem escala



Janela Oscilo Batente 02 módulos

sem escala



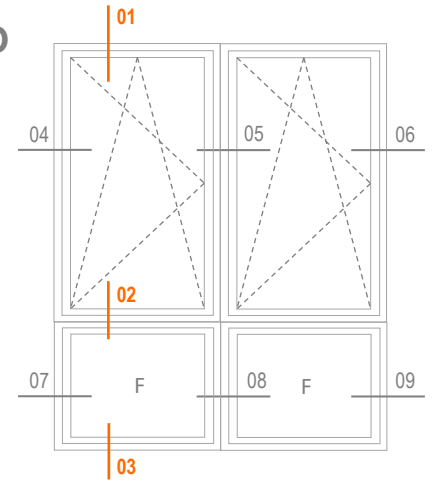
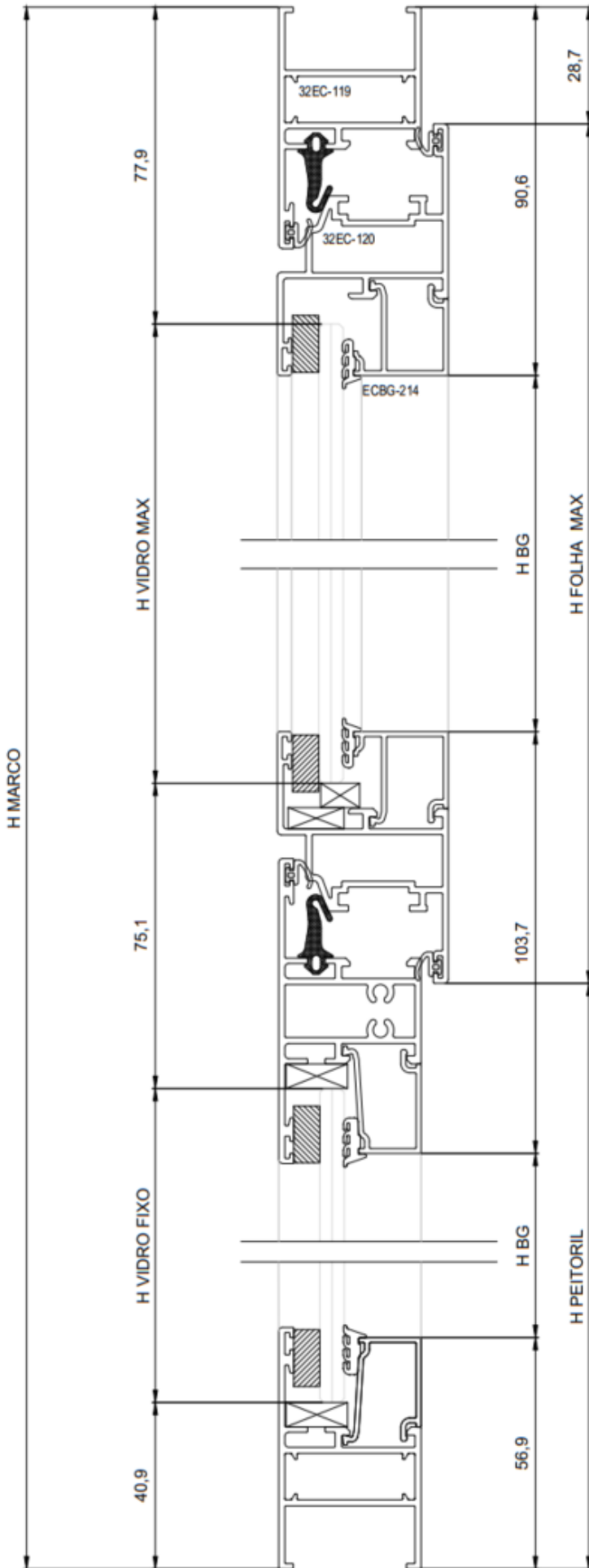
Janela Oscilo Batente 02 módulos com peitoril fixo sem escala

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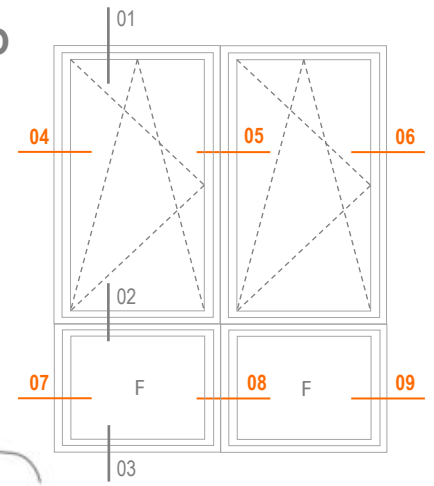
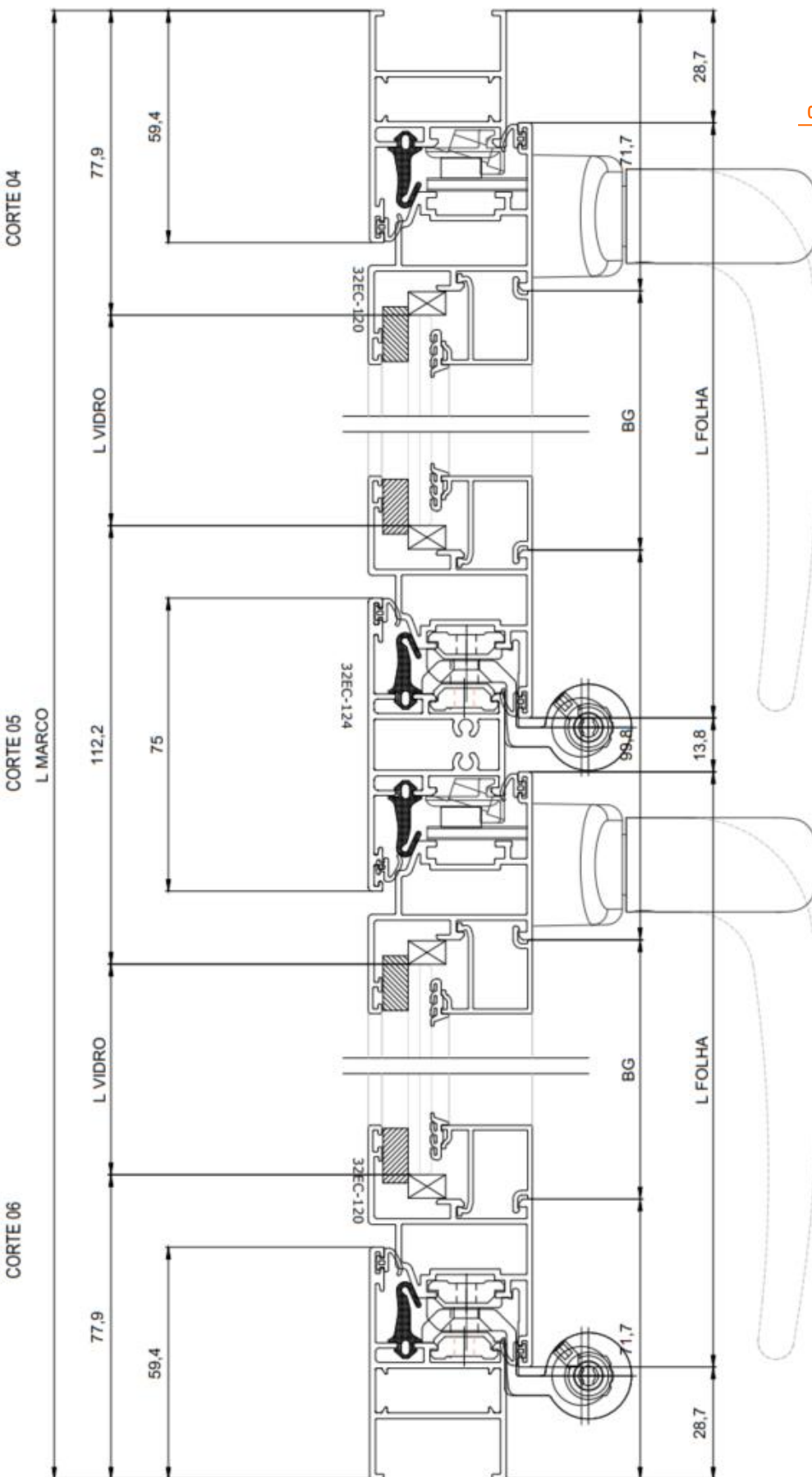
CORTE 01

CORTE 02

CORTE 03



Janela Oscilo Batente 02 módulos com peitoril fixo sem escala



aluminorte		INFORMATIVO DE SISTEMAS ALUMINORTE				SPISIS		
TIPOLOGIA	Janela de correr 02 folhas	NBR 10.821 / 2017		NBR. 15575 / 2021		ACÚSTICA	DIMENSÕES	ANO
	Porta de correr 02 folhas com travessa	RESISTÊNCIA	ESTANQUEIDADE	DIMENSÕES	ANO			
		Região V - (30 pav = 90m)	300Pa	1195 x 1195	1200 x 1220	30dB	2022	2022
						32dB	2300 x 2200	2022

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