



A.165

SISTEMA DE BATENTE RPT

CATÁLOGO TÉCNICO

Extrusal®

Morada Habitacional

Aveiria - Empreendimentos Imobiliários, S.A.
Gafanha da Boa Hora, Aveiro



01

A.165

sistema de abrir RPT
julho . 2026 . R1



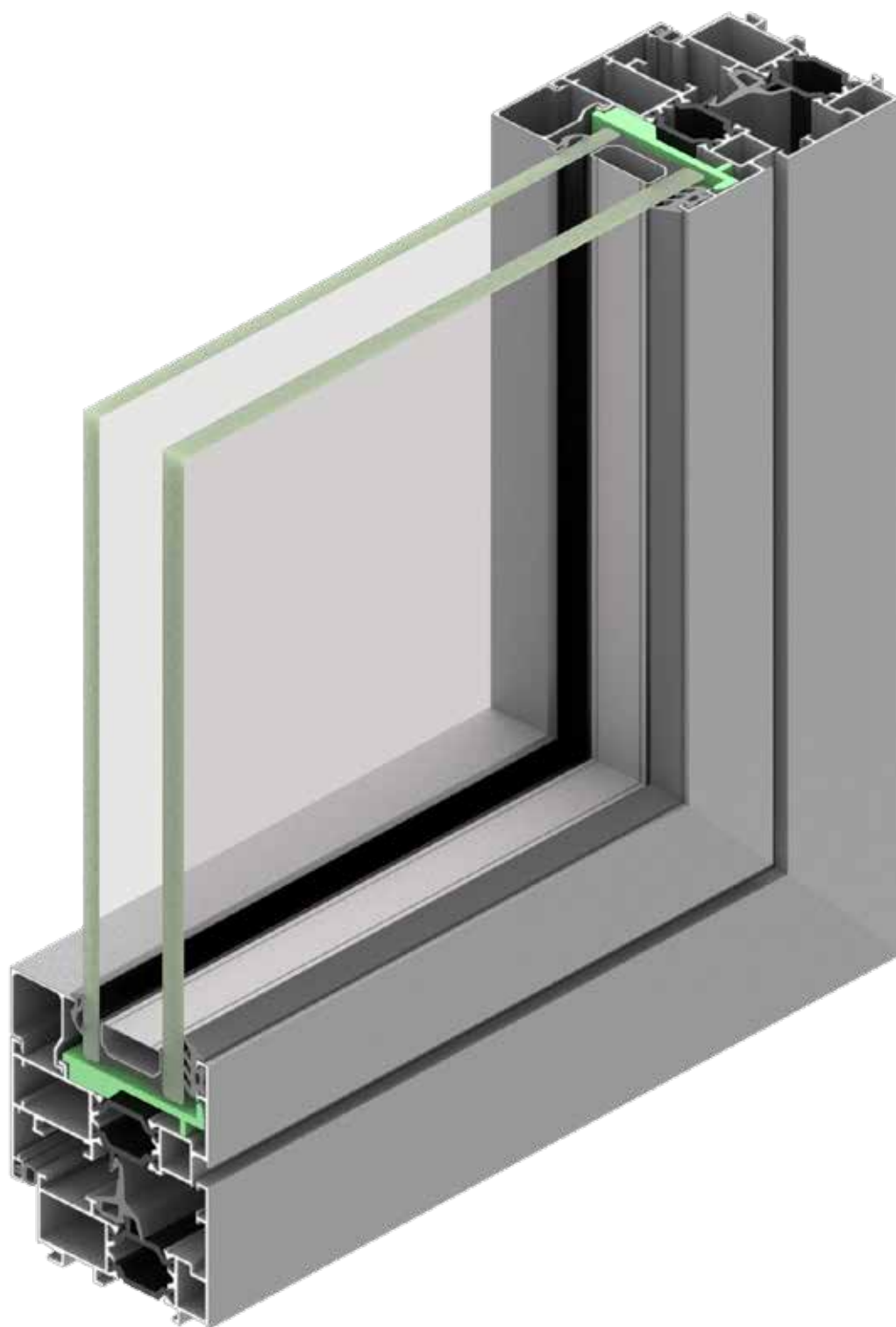
Morada Habitacional
Aveiria - Empreendimentos Imobiliários, S.A.
Gafanha da Boa Hora, Aveiro

01

DETALHE 3D

sistema de abrir RPT

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02 **CARAC. TÉCNICAS**

sistema de abrir RPT
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Aplicação

Construção Nova / Reabilitação



Tipologias Abertura



Peso máximo | folha

200 kg



Altura máxima | folha

2600 mm



Largura máxima | folha

1700 mm



Vista da folha

87,6 mm



Enchimento máximo

46 mm

CARACTERÍSTICAS TÉCNICAS

A.165

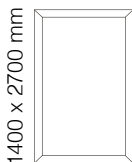


Desempenho Acústico

38 dB



Coeficiente Transmissão Térmica

Vidro Ug $0.9 \text{ W/m}^2\text{K}^{-1}$ **1.5****EN ISO 10077-1**

Vidro Ug

 $1.1 \text{ W/m}^2\text{K}^{-1}$ $1.0 \text{ W/m}^2\text{K}^{-1}$ $0.9 \text{ W/m}^2\text{K}^{-1}$

Janela Uw

 $1.7 \text{ W/m}^2\text{K}^{-1}$ $1.6 \text{ W/m}^2\text{K}^{-1}$ $1.5 \text{ W/m}^2\text{K}^{-1}$

CLASS



Ensaio Tipo Inicial

Permeabilidade ao ar

(pressão máx. ensaio / EN12207)

Classe

4

Estanquidade à água

(EN12208)

Classe

E1350

Resistência à ação do vento

(EN12210)

Classe

B5**Boletim de ensaio: CXL 29/12. Organismo notificado n° 0856**

Dimensão: 1600 mm x 2000 mm. Janela composta por duas folhas móveis, uma oscilo-batente e outra de batente.



Perfis Alumínio

Liga EN-AW 6060

EN 573-3 | EN 755-2
EPM T6

PA 6.6 GF 25

25%fibra de vidro
24,8 mmComprimento Nominal **6500 mm**Espessura Nominal **1.5 mm** $R_{p0.2} \geq 120 \text{ MPa}$ $R_m \geq 160 \text{ MPa}$ $A_{50mm} \geq 6\%$ 

Tratamentos

Anodização

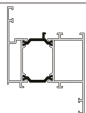
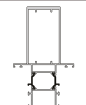
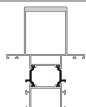
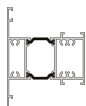
Acabamento Acetinado e Polido

Lacagem

Acabamento mate | brilhante | acetinado | texturado

Lacagem Decorativa

Efeito Madeira

Perfil	Ref.	Área Anod.	Polir	Inércia Ixx	Iyy	Pág.	Perfil	Ref.	Área Anod.	Polir	Inércia Ixx	Iyy	Pág.
	A.165.010	36,39	7,80	4,87	20,25	20		A.165.170	39,55	11,75	12,14	27,89	32
	A.165.020	43,28	10,30	7,42	32,10	24		A.165.200	50,10	14,35	22,45	34,08	22
	A.165.040	44,29	11,25	16,33	29,40	20		A.165.210	37,43	13,50	27,27	27,33	42
	A.165.050	51,24	14,25	21,64	47,96	24		A.165.260	66,35	31,65	273,91	45,70	30
	A.165.060	42,66	10,80	23,66	8,20	28		A.165.270	43,07	10,30	7,44	24,43	22
	A.165.070	50,55	14,65	33,17	22,48	28		A.165.280	47,16	13,15	23,04	53,62	23
	A.165.080	60,35	25,65	160,89	39,11	29		A.165.300	45,02	10,35	8,83	33,14	26
	A.165.090	31,25	7,30	1,73	24,74	41		A.165.310	52,94	14,30	24,45	49,94	26
	A.165.100	50,79	14,65	25,63	50,52	25		A.165.320	49,09	14,65	24,48	41,84	27
	A.165.120	50,64	14,20	21,89	46,85	25		A.165.340	40,45	10,30	23,63	7,61	27
	A.165.130	51,79	15,60	22,85	42,97	31		A.165.350	41,89	10,75	8,12	24,60	23
	A.165.140	35,10	7,80	4,10	21,24	31		A.165.360	34,82	4,45	1,06	21,77	41
	A.165.150	39,34	7,80	5,25	22,21	21		A.055.015	19,08	2,60	-	-	43
	A.165.160	34,58	6,00	4,63	18,03	21		A.055.080	39,07	22,60	127,47	19,44	33

Unidades: Área Anodização (dm²/m)
Área Polimento (dm²/m)
Inércia (cm⁴)

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	A.055.100	22,56	13,20	3,44	19,86	34		F.009.157	30,20	12,20	1,34	22,27	38
	A.080.029	25,73	-	33,67	19,29	34		F.010.140	12,07	3,60	-	-	43
	A.100.013	5,24	1,50	-	-	43		A.040.004	17,88	5,45	-	-	39
	A.100.023	12,48	1,80	-	-	43		A.040.025	14,54	3,85	-	-	39
	B.055.580	27,98	14,40	1,36	29,06	35		A.040.026	15,84	4,50	-	-	39
	B.095.080	27,98	14,40	1,38	49,54	35		A.040.039	14,12	3,45	-	-	39
	B.150.030	41,84	26,20	4,52	115,03	35		A.040.048	8,30	2,70	-	-	43
	F.009.135	33,54	15,50	1,41	38,65	36		A.040.050	14,94	4,05	-	-	39
	F.009.136	49,00	18,00	0,63	121,44	37		A.040.069	9,81	2,75	-	-	39
	F.009.137	23,75	11,50	7,65	8,35	36		A.040.070	10,21	2,95	-	-	39
	F.009.138	14,07	6,60	1,05	1,13	36		A.040.107	16,55	4,85	-	-	39
	F.009.139	8,70	1,80	-	-	43		A.040.110	17,65	5,00	-	-	39
	F.009.155	18,21	7,20	1,11	2,57	38		A.040.133	19,92	6,25	-	-	40
	F.009.156	26,20	10,20	1,28	11,66	38		A.040.140	10,63	3,15	-	-	40

Unidades: Área Anodização (dm²/m)
Área Polimento (dm²/m)
Inércia (cm⁴)

Perfil	Ref.	Área		Inércia		Pág.	Perfil	Ref.	Área		Inércia		Pág.
		Anod.	Polir	lxx	lyy				Anod.	Polir	lxx	lyy	
	A.040.141	14,65	3,65	-	-	40		A.040.144	17,97	5,25	-	-	40
	A.040.142	15,33	4,25	-	-	40		A.040.146	19,86	6,25	-	-	40
	A.040.143	16,19	4,65	-	-	40		A.040.147	19,01	5,85	-	-	40

Unidades: **Área Anodização (dm²/m)**
Área Polimento (dm²/m)
Inércia (cm⁴)

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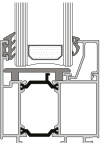
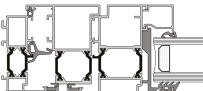
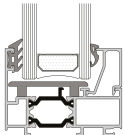
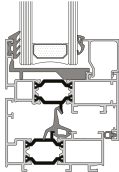
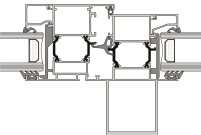
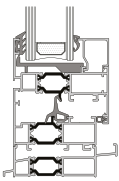
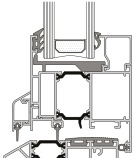
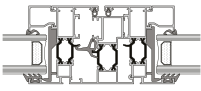
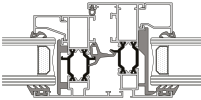
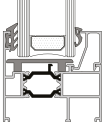
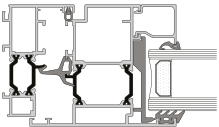
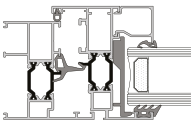
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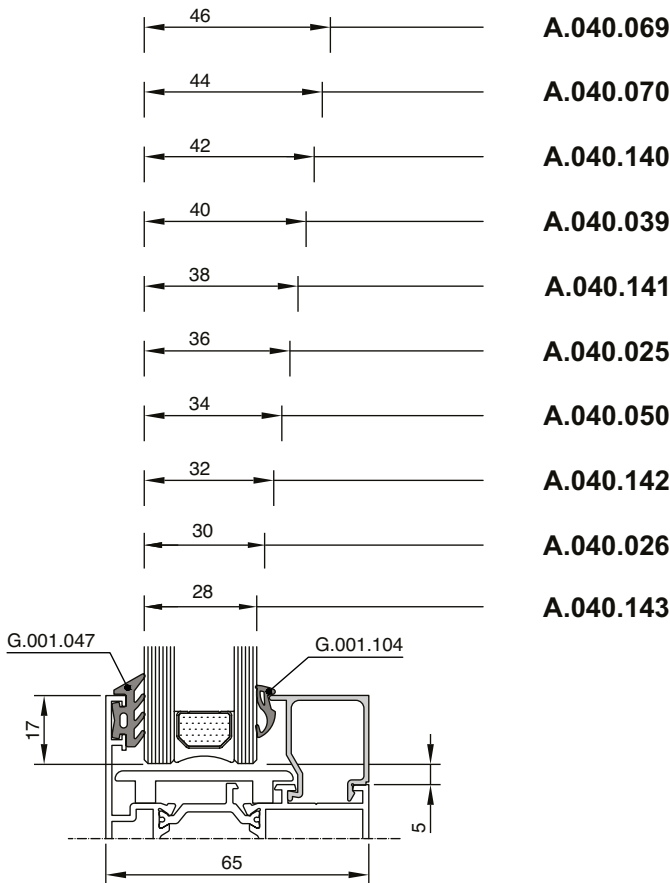
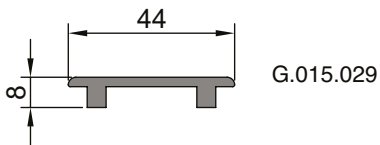
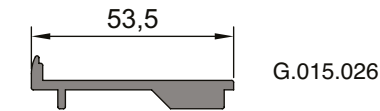
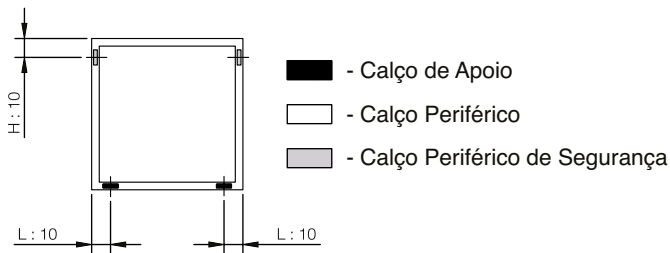
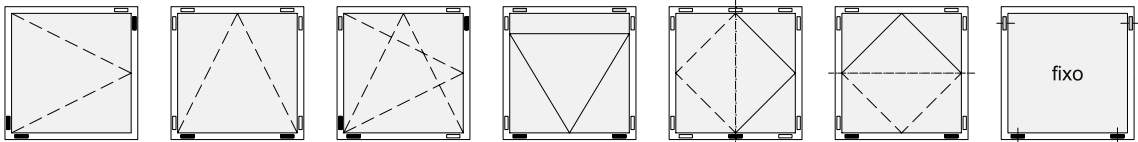
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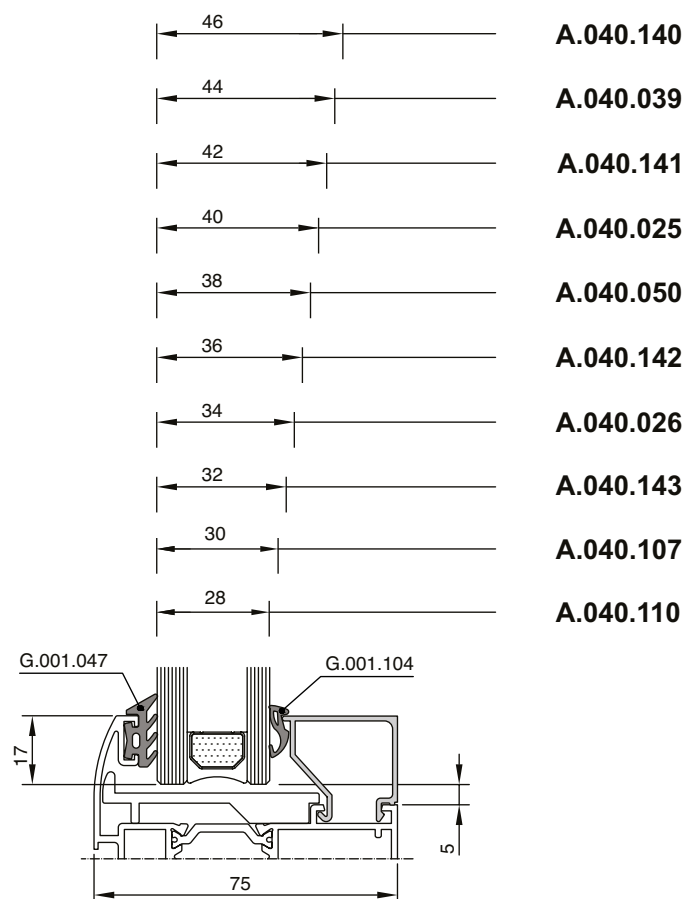
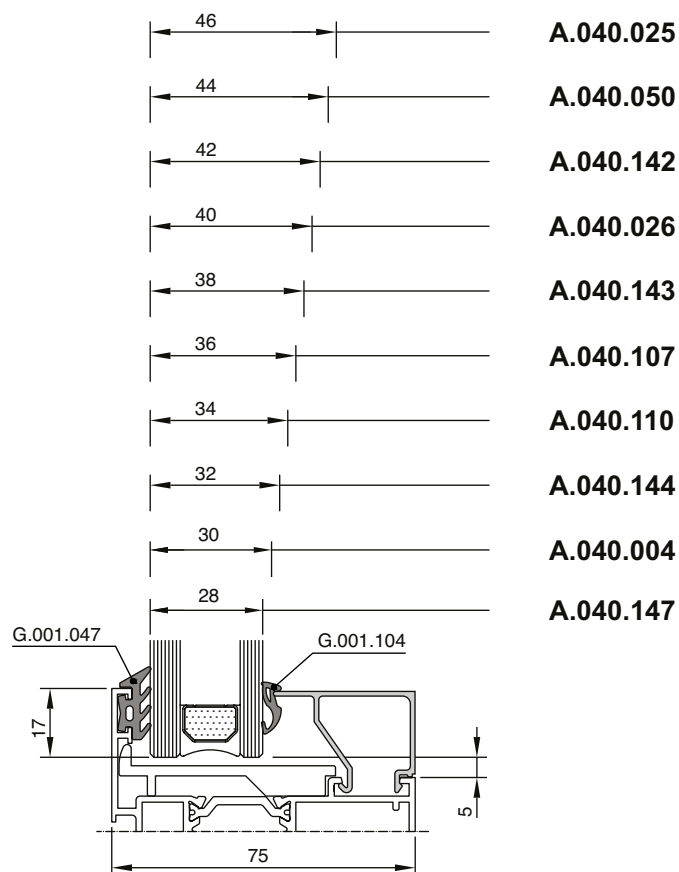
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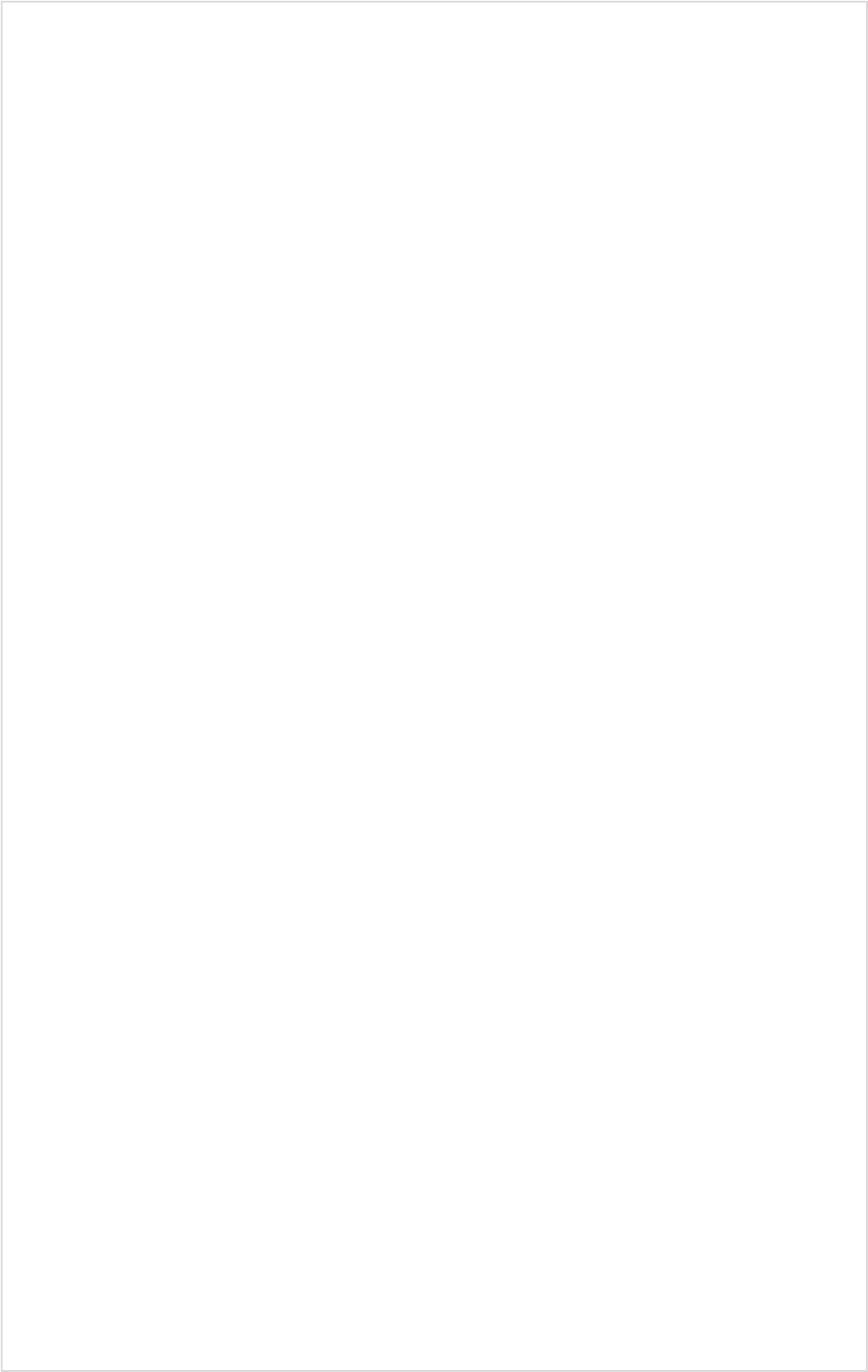
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	A.165.040 A.165.050	2,76		A.165.010	2,47
	A.165.050 A.165.340	2,89		A.165.010 A.165.020	2,81
	A.165.050 A.165.080	2,88		A.165.010 A.165.020 A.165.090	3,24
	A.100.023 A.165.050 A.165.360	3,26		A.165.020 A.165.340	2,95
	A.165.040 A.165.120	2,87		A.165.020 A.165.060	2,81
	A.165.120 A.165.340	2,92		A.165.270	2,13
	A.165.130 A.165.140	2,80		A.165.020 A.165.270	2,59

Unidades: (Wm²/K)

Radiosity Method ISO 10077-2 : 2017 - FLIXO 18 PRO ®







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sistema de abrir RPT
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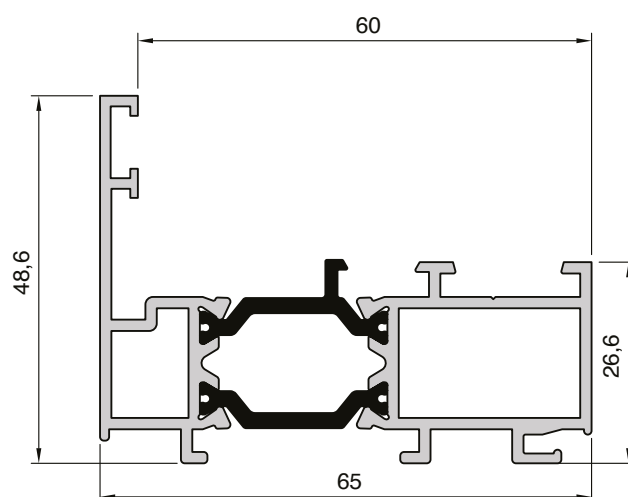
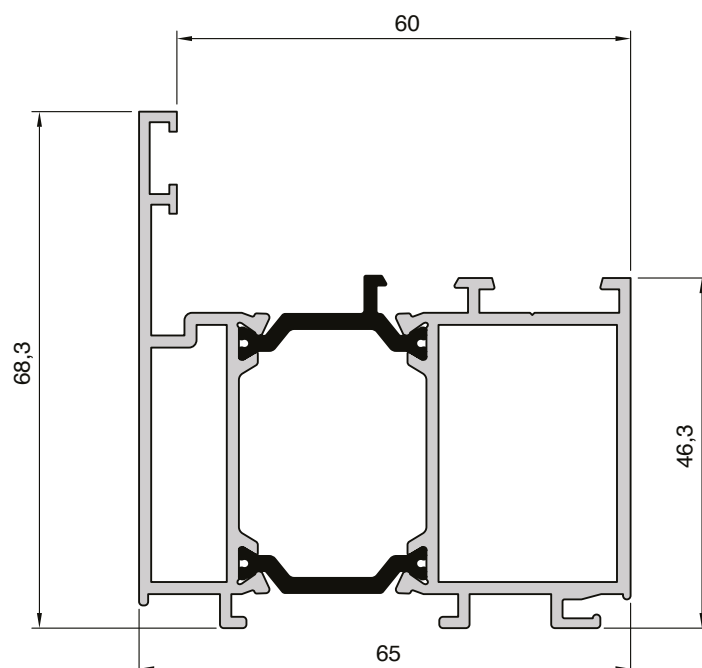
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Bite

39

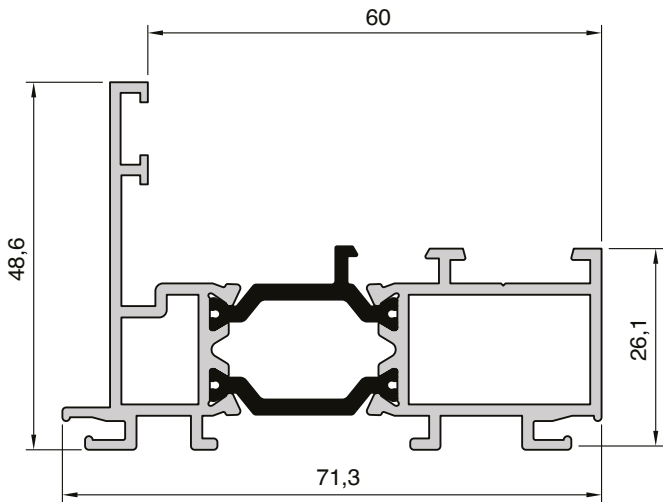
Diverso

41

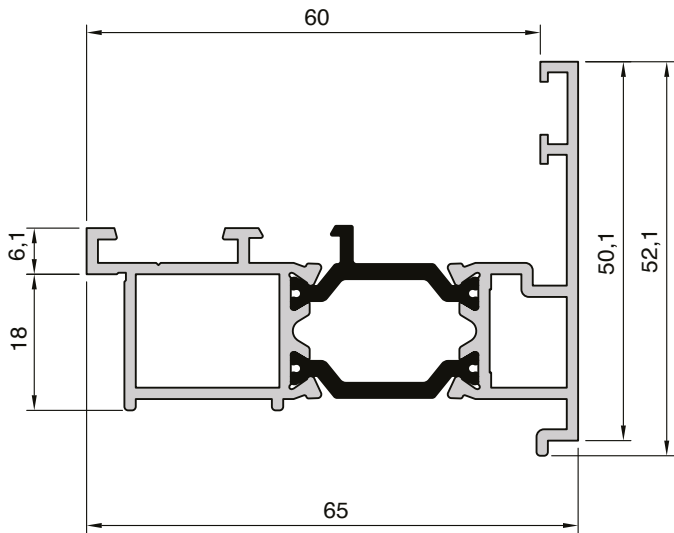
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Escala 1:1

A.165.150



A.165.160



Escala 1:1

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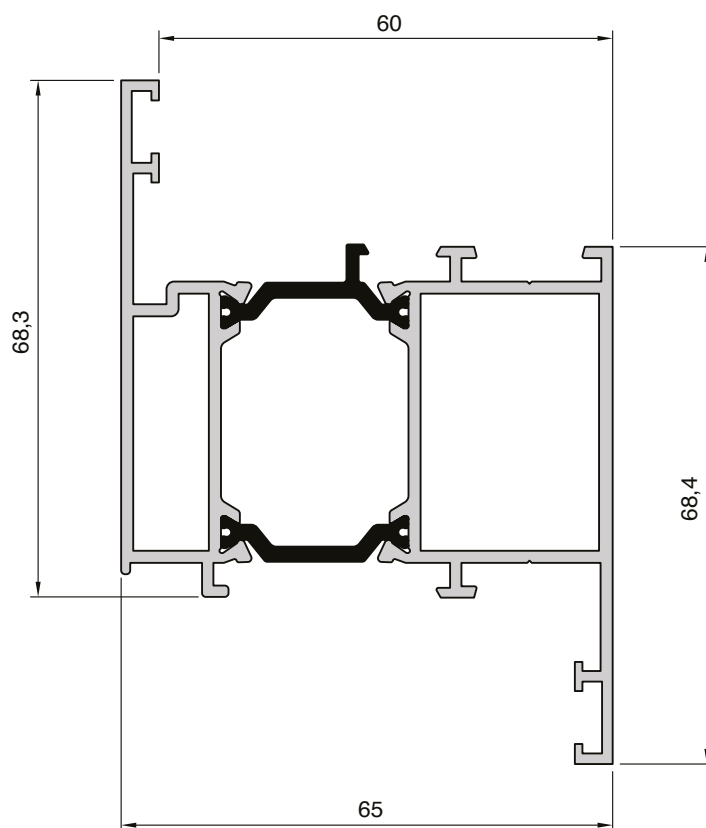
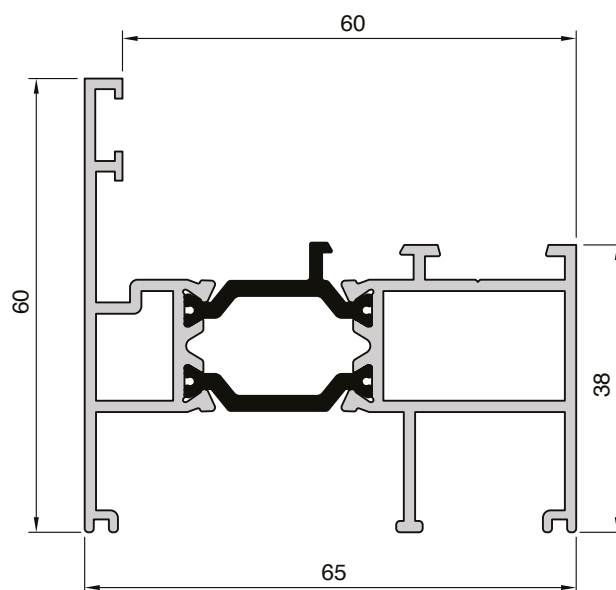
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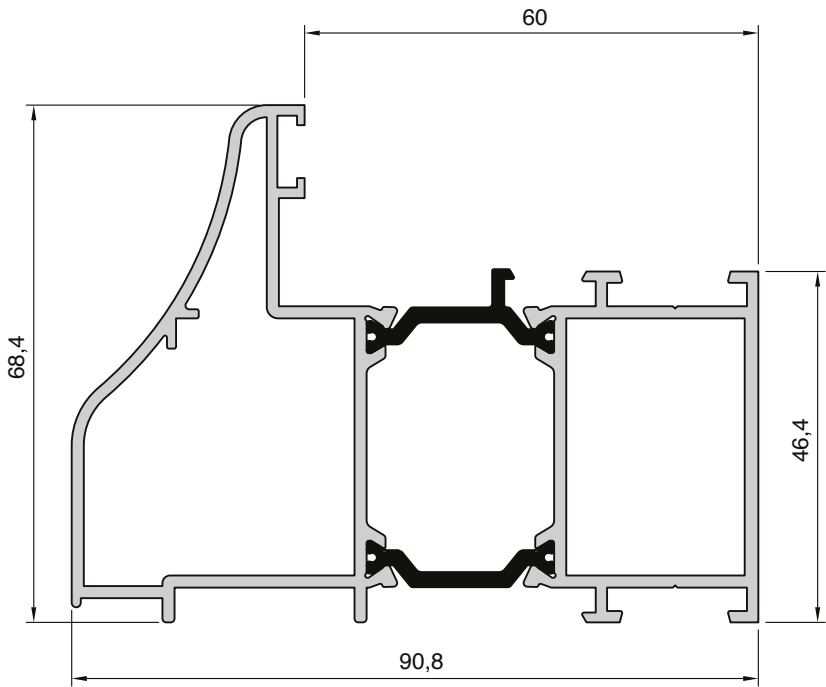
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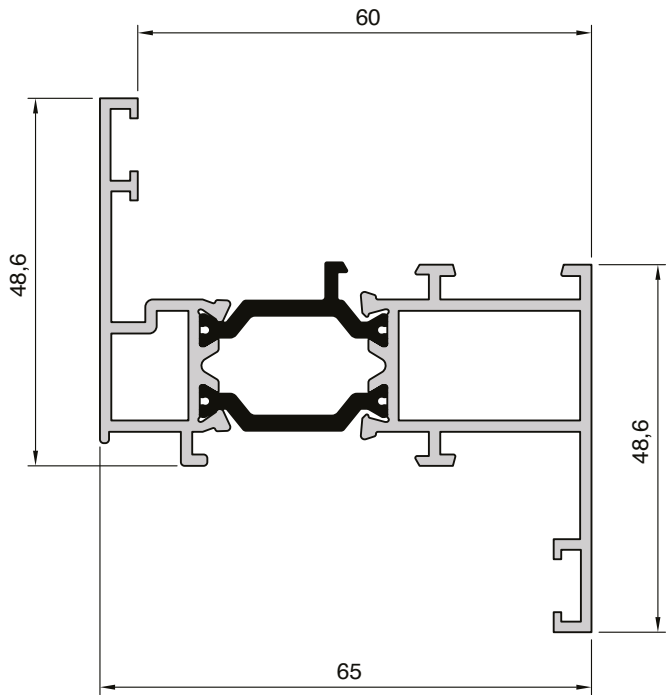
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Escala 1:1

A.165.280



A.165.350



Escala 1:1

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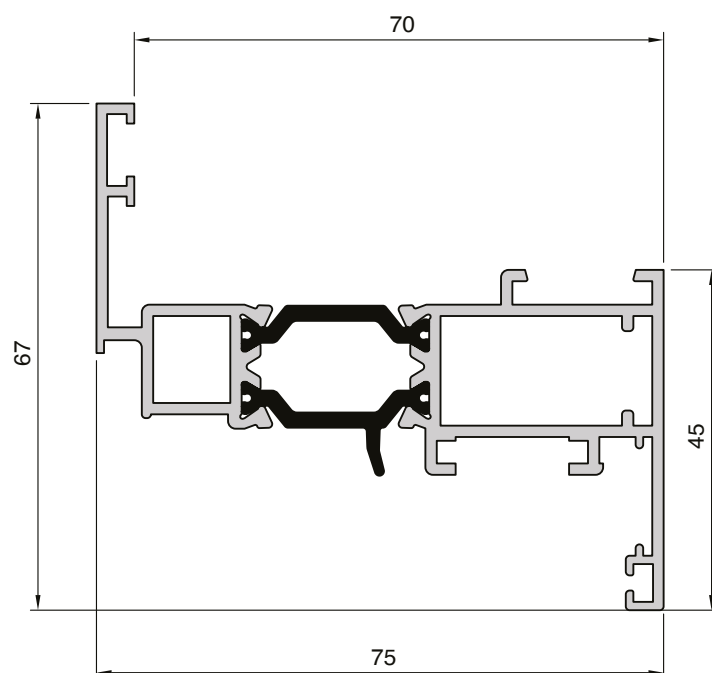
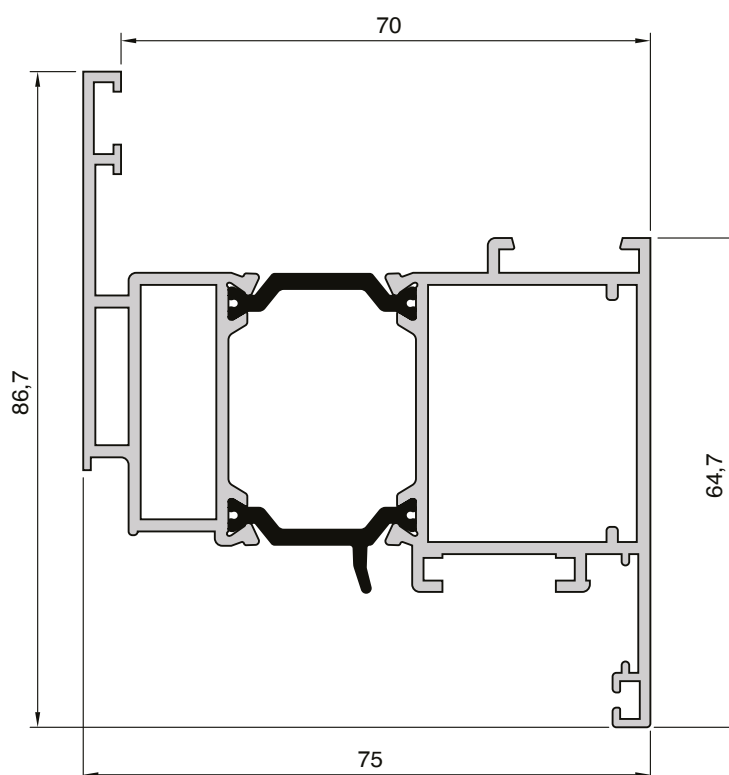
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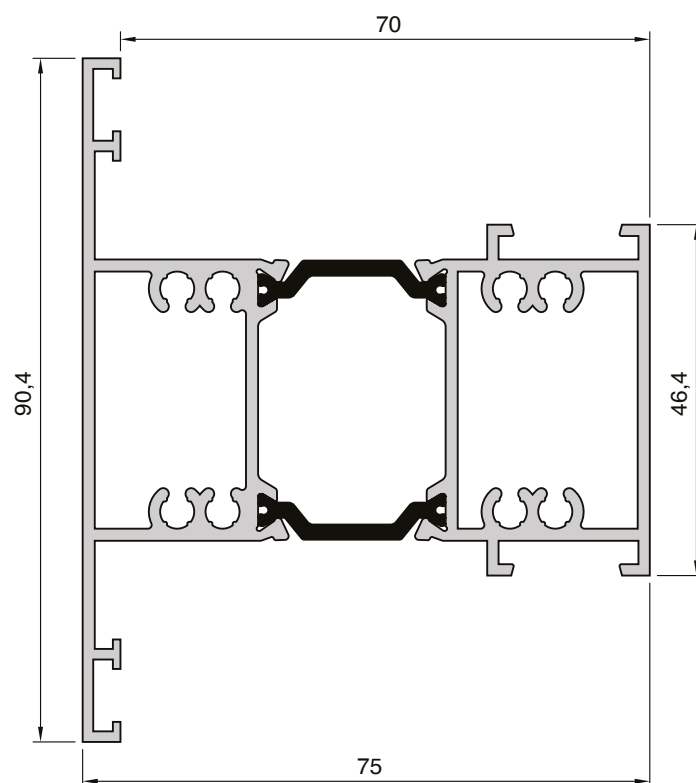
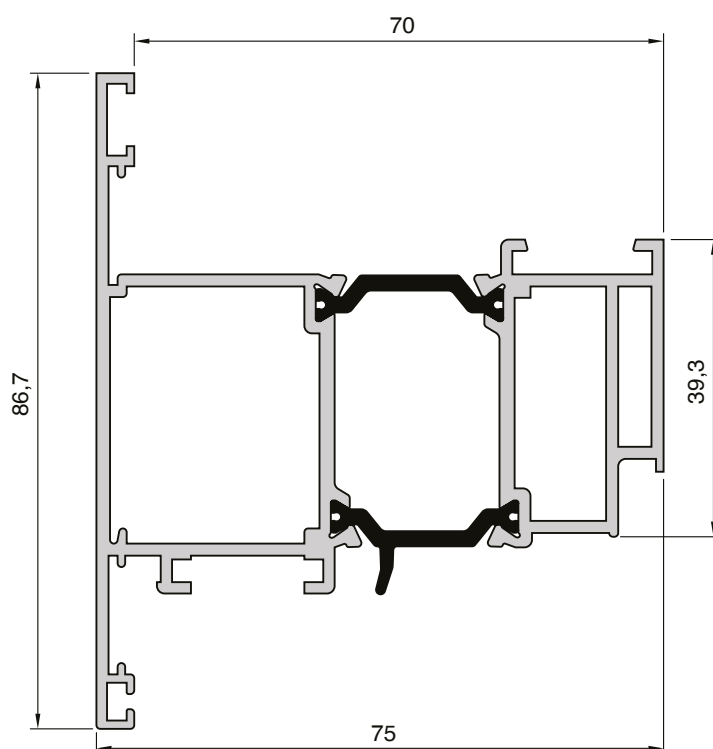
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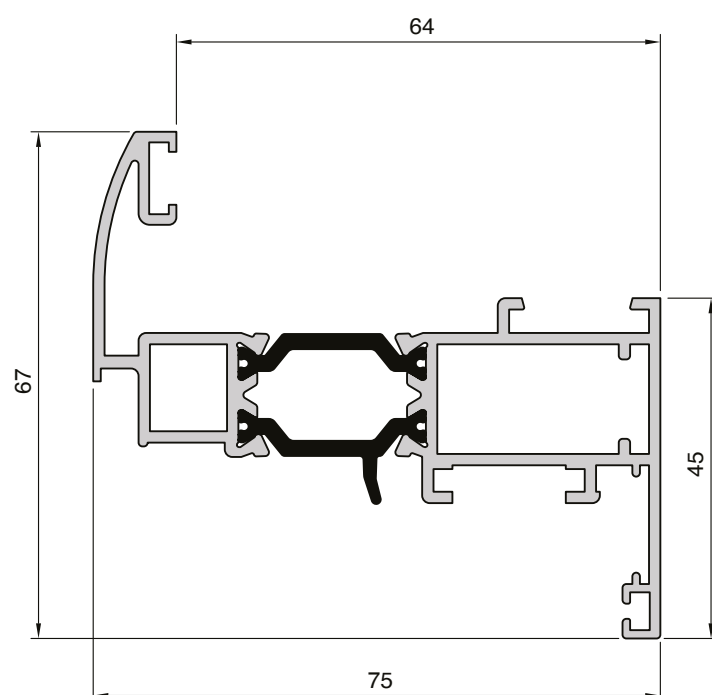
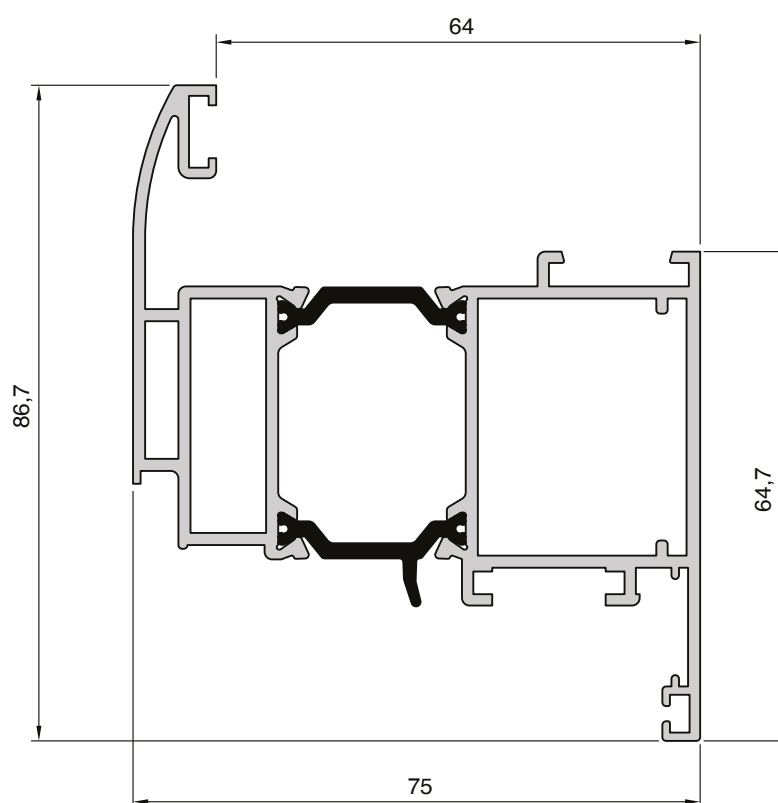
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A.165.020**A.165.050**

Escala 1:1

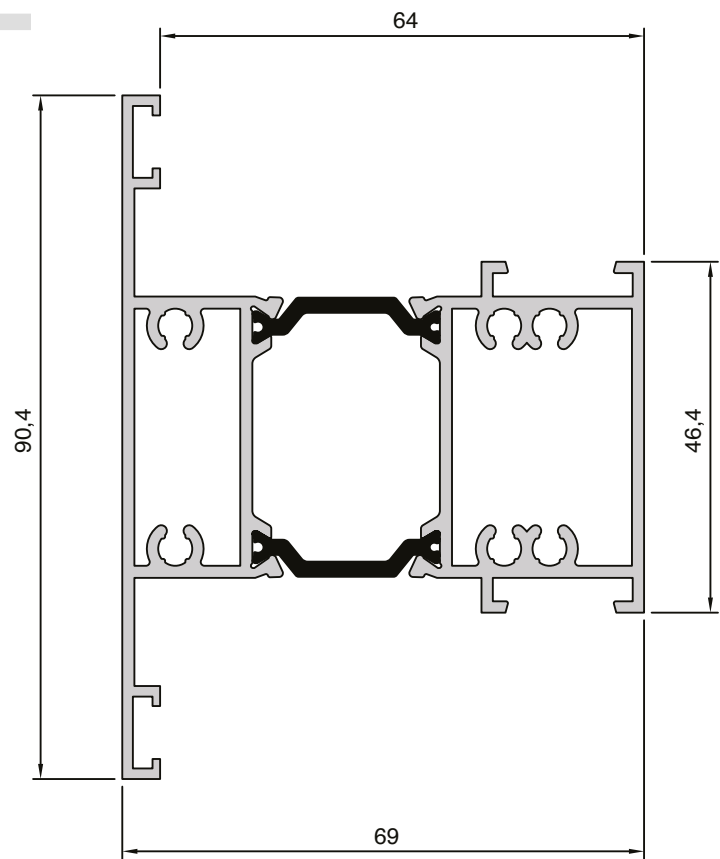
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A.165.120


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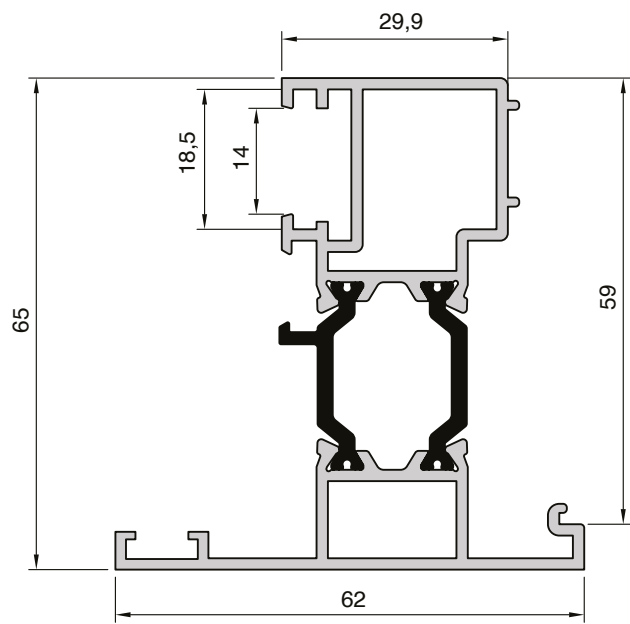
A.165.300**A.165.310**

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A.165.320



A.165.340



Escala 1:1

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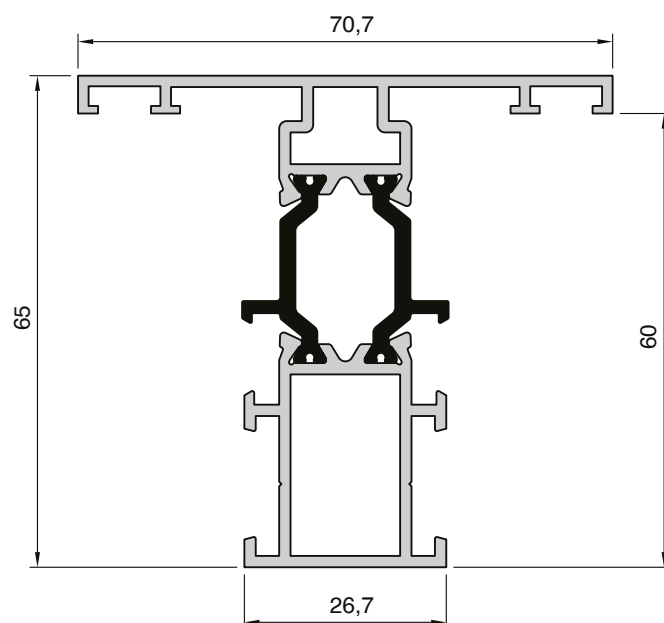
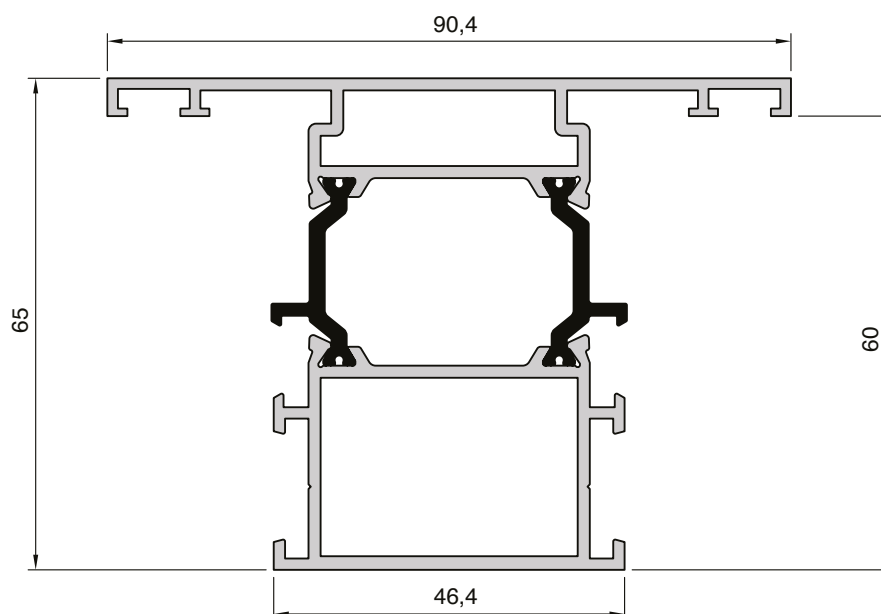
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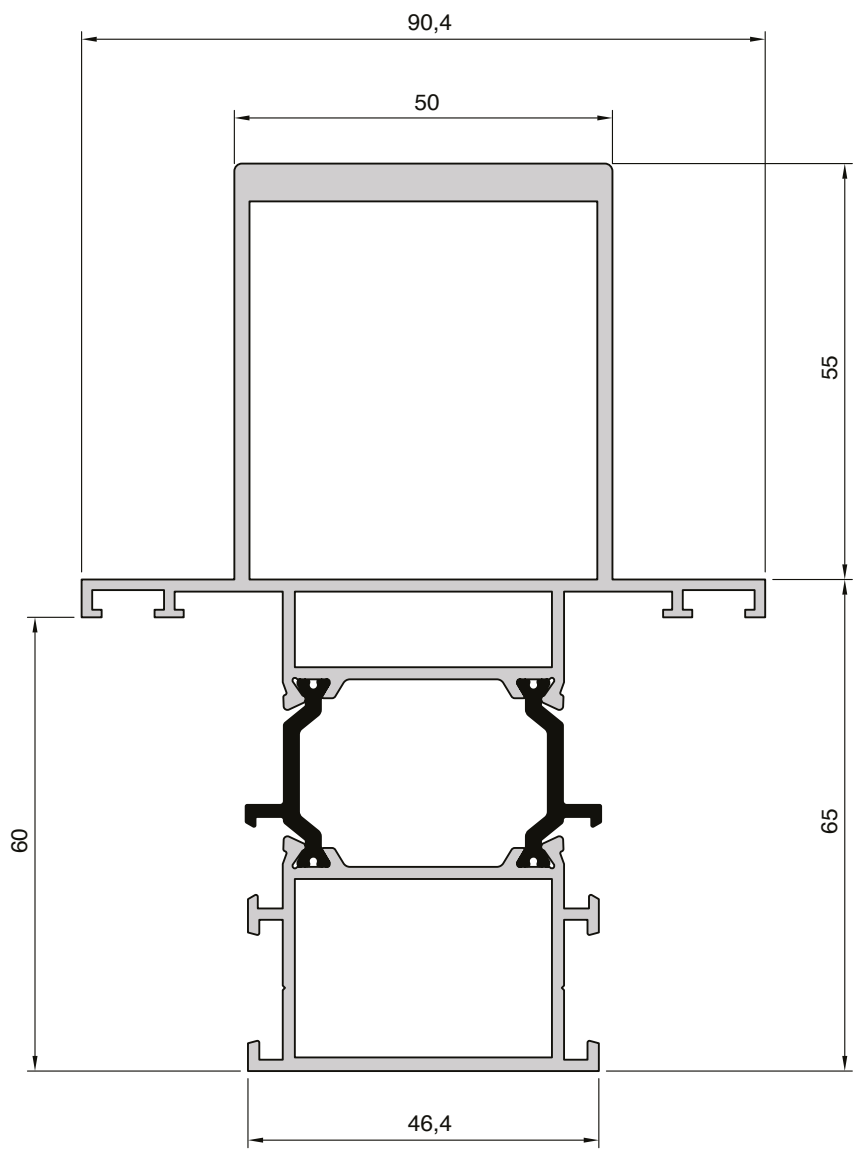
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A.165.060**A.165.070**

Escala 1:1

A.165.080



Escala 1:1

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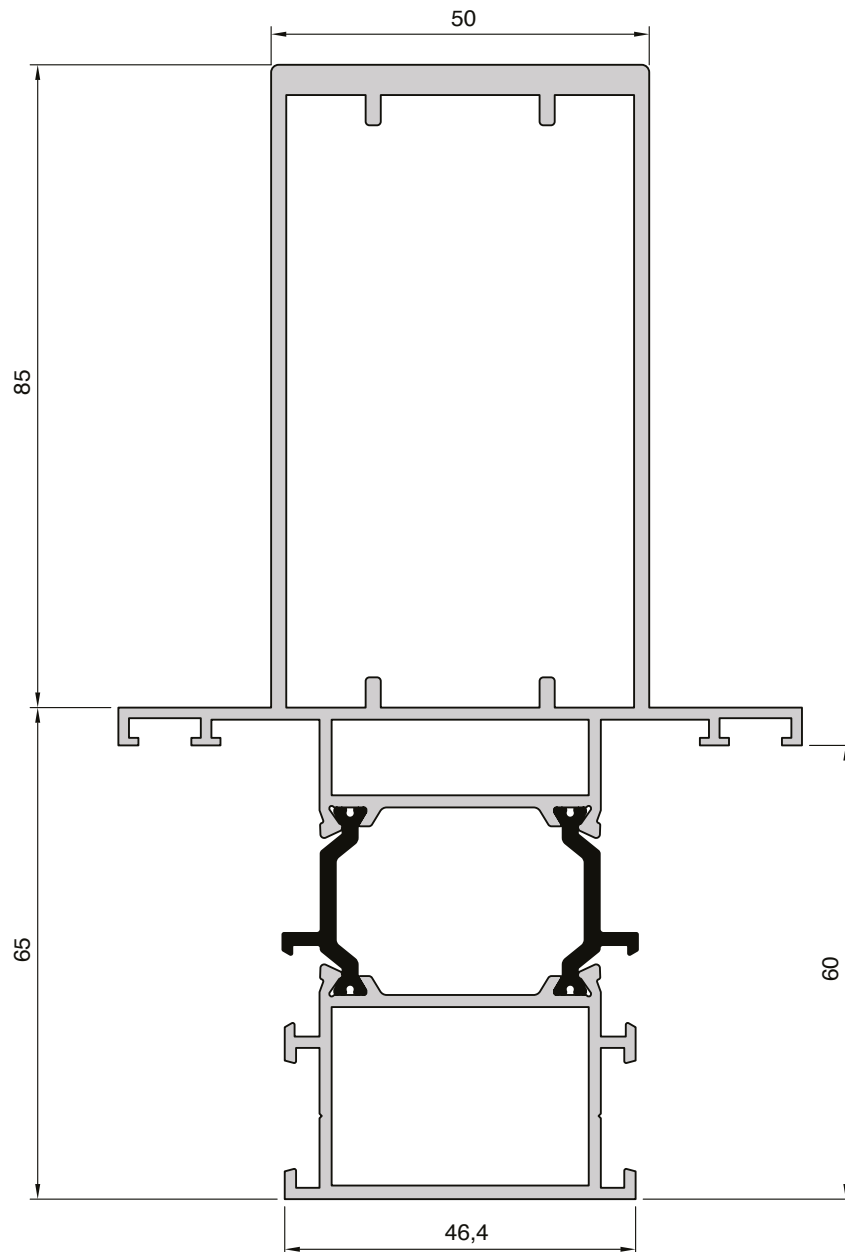
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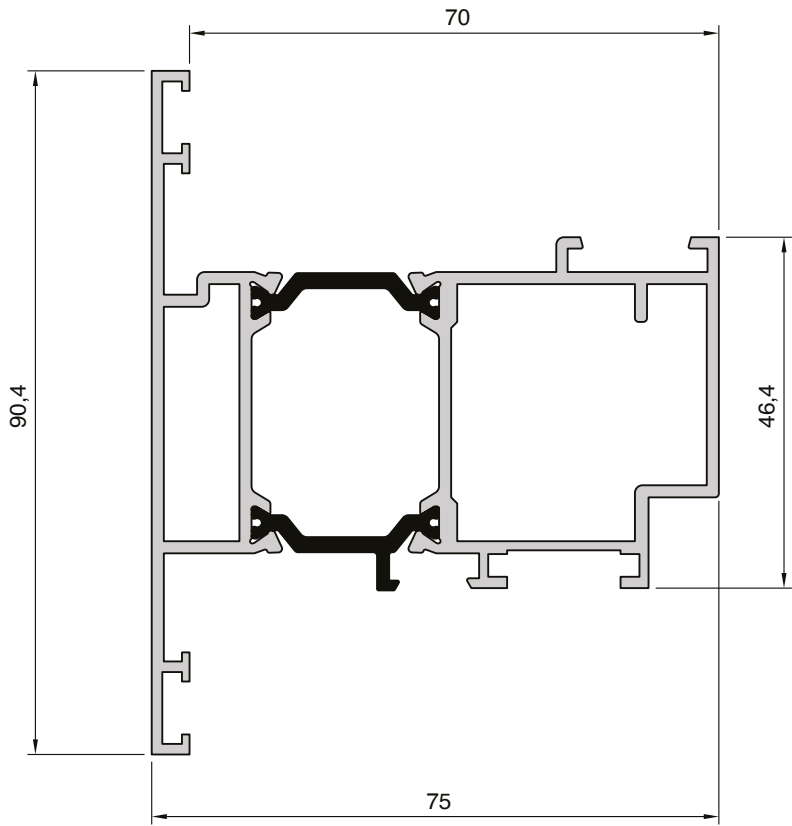
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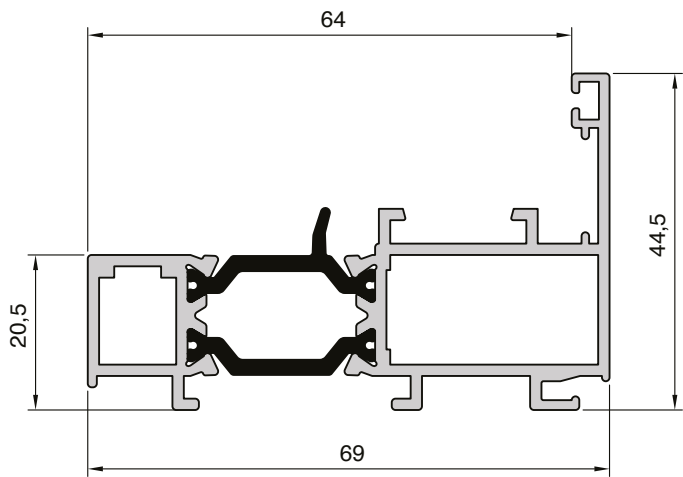
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A.165.130



A.165.140



Escala 1:1

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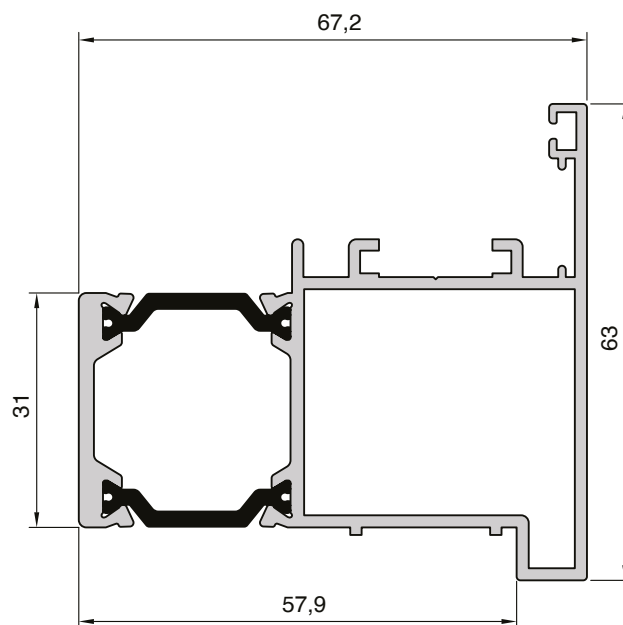
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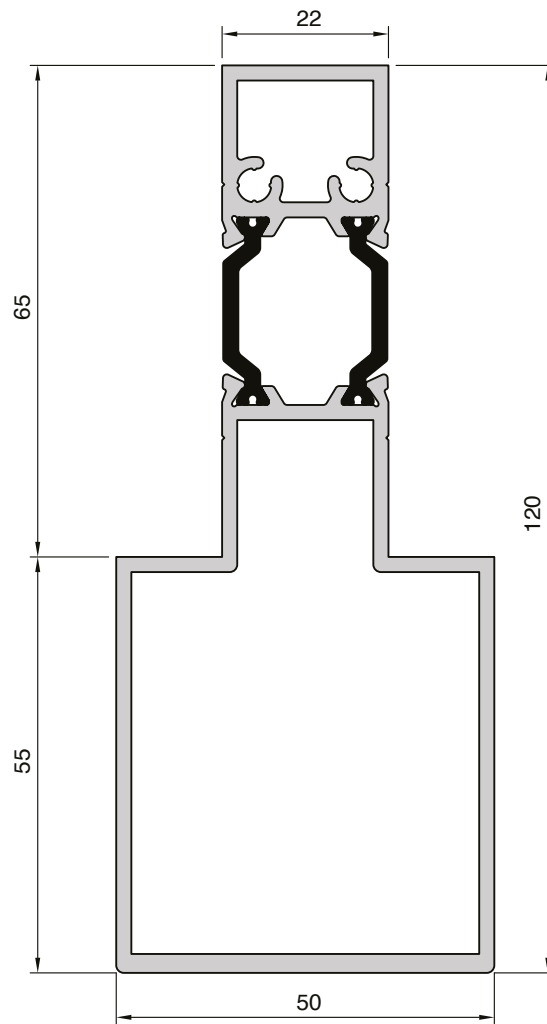
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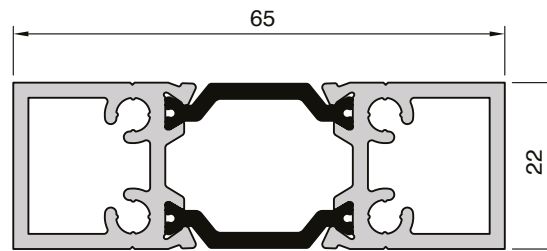
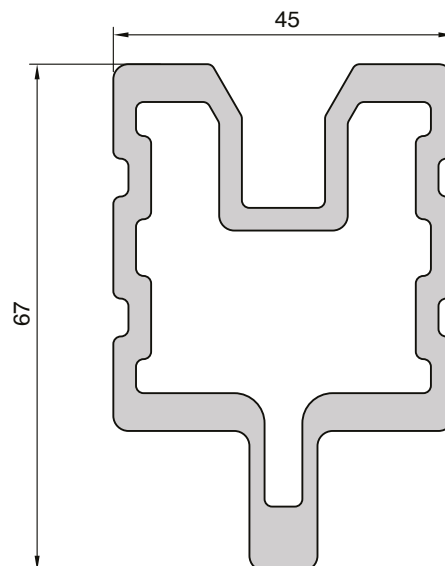
A.165.170

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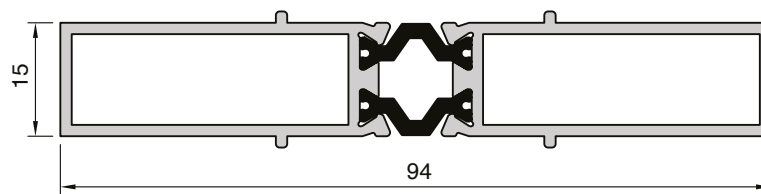
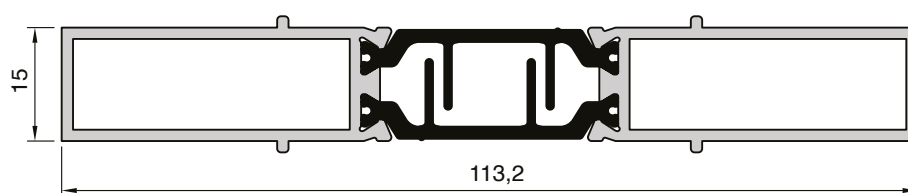
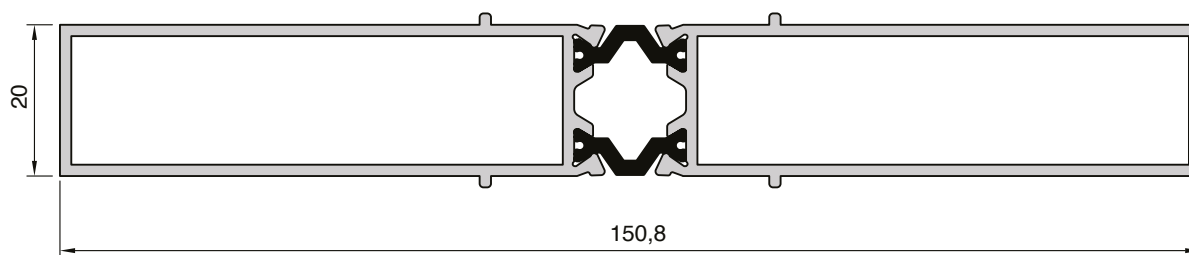
A.055.080



Escala 1:1

A.055.100**A.080.029**

Escala 1:1

B.055.580

B.095.080

B.150.030


Escala 1:1

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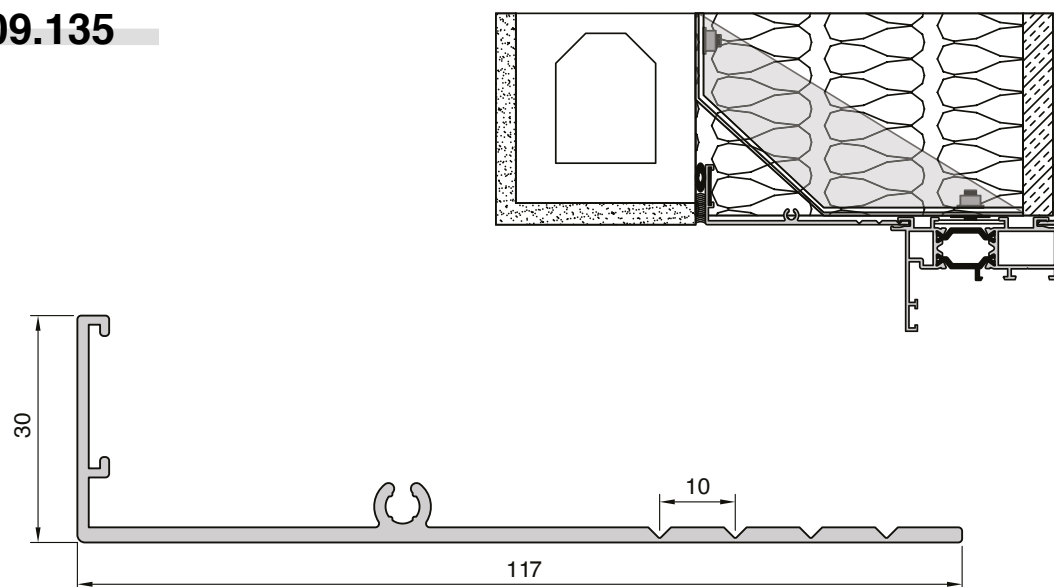
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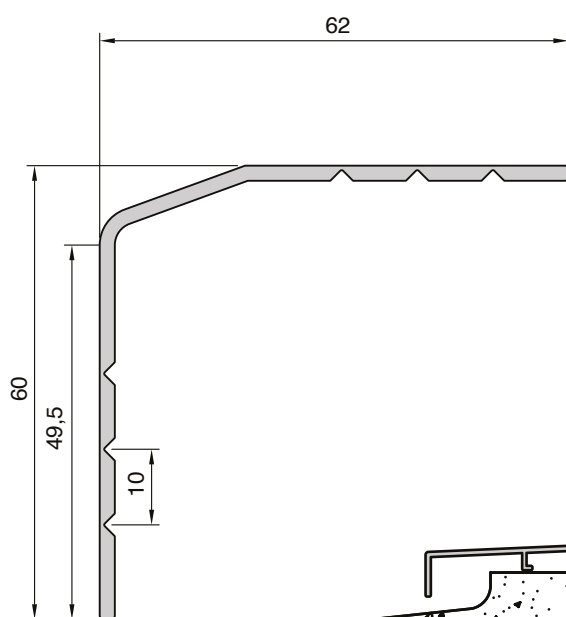
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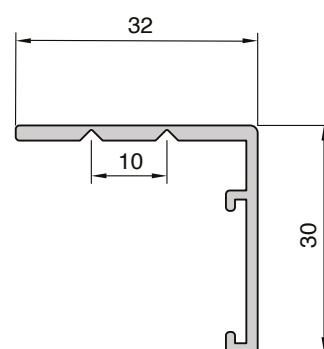
F.009.135



F.009.137

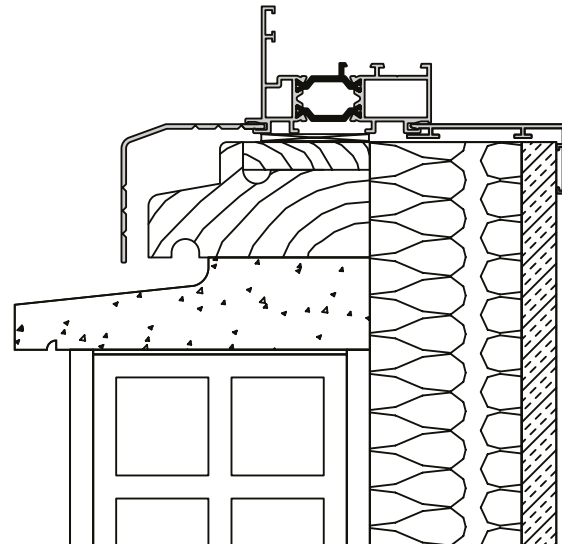
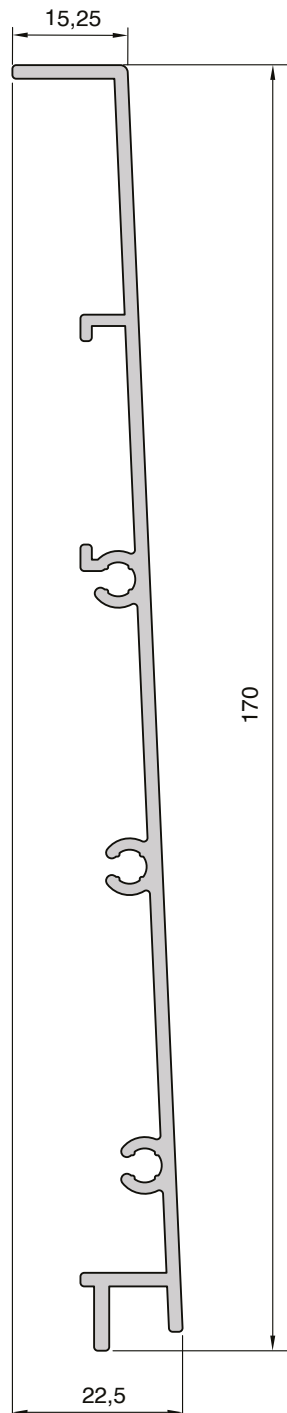


F.009.138

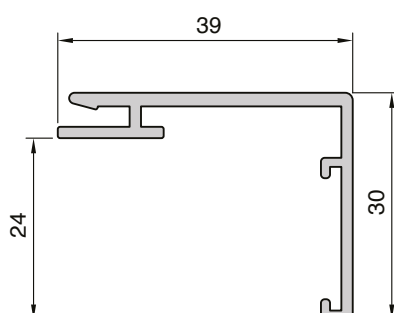
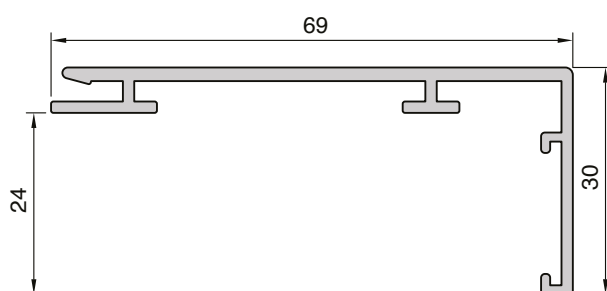
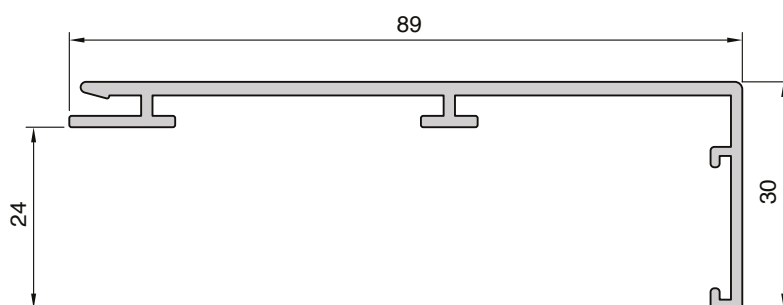


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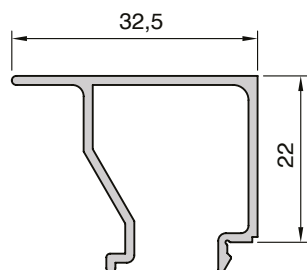
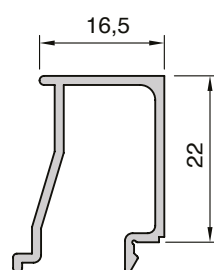
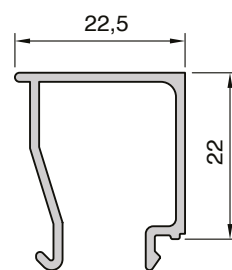
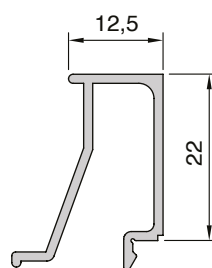
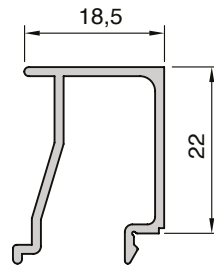
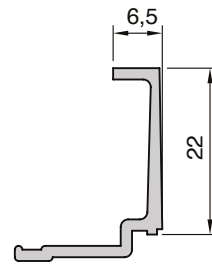
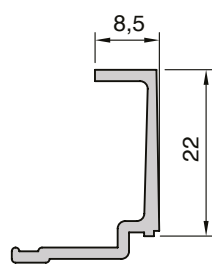
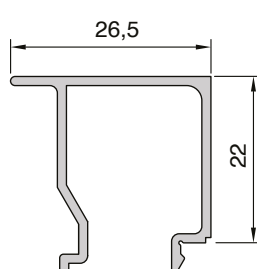
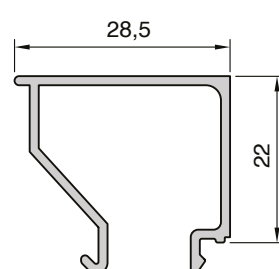
F.009.136



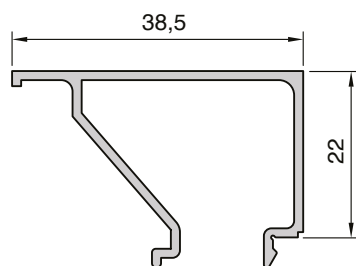
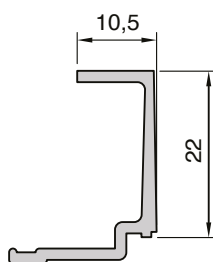
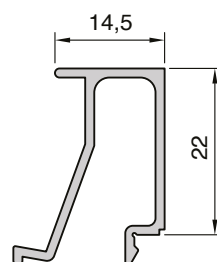
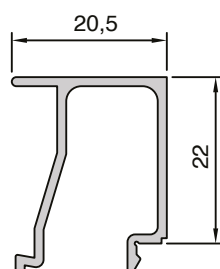
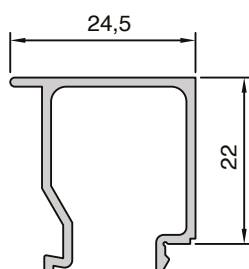
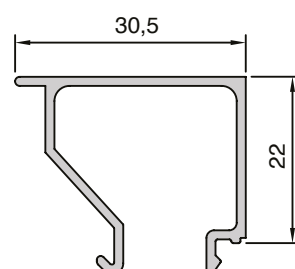
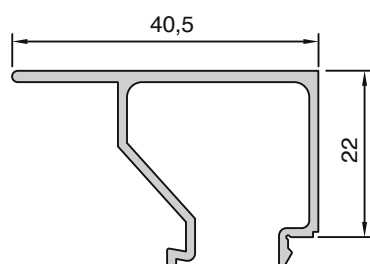
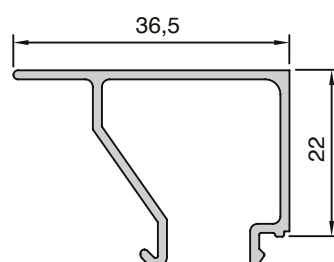
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F.009.155**F.009.156****F.009.157**

Escala 1:1

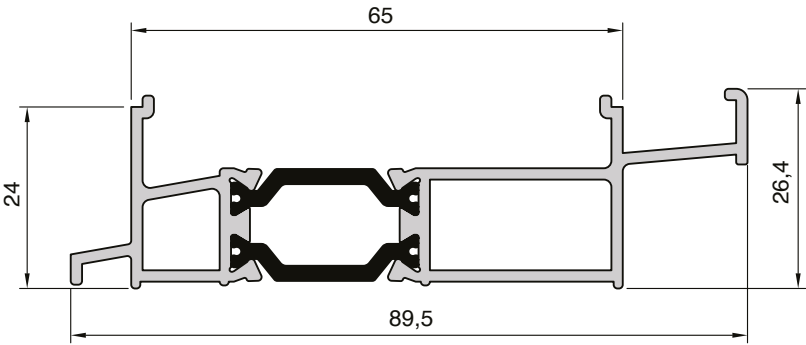
A.040.004**A.040.025****A.040.026****A.040.039****A.040.050****A.040.069****A.040.070****A.040.107****A.040.110**

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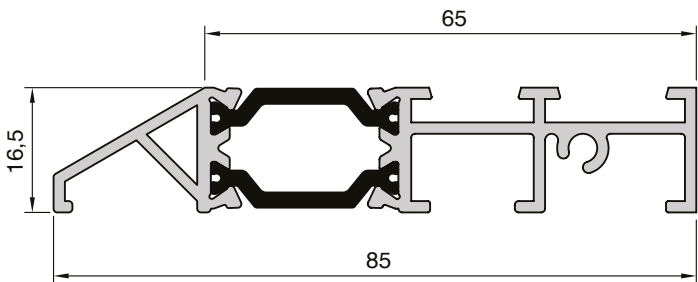
A.040.133**A.040.140****A.040.141****A.040.142****A.040.143****A.040.144****A.040.146****A.040.147**

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A.165.090



A.165.360



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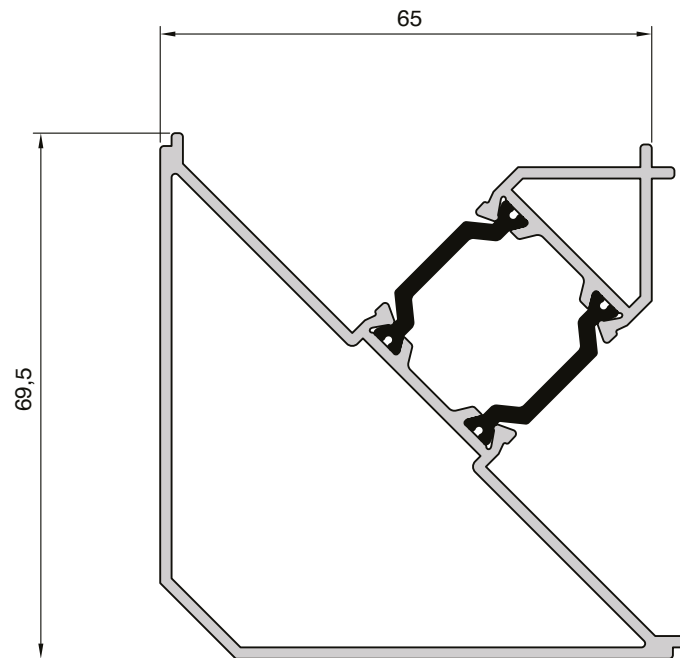
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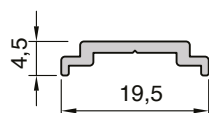
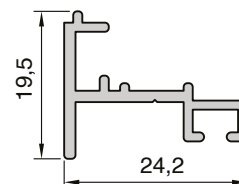
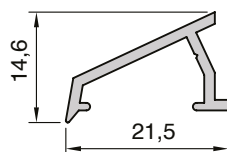
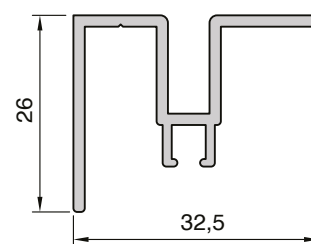
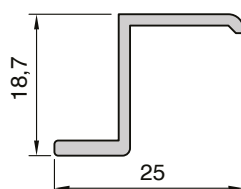
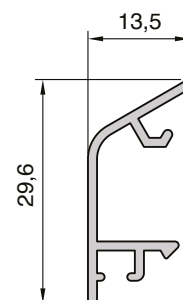
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A.165.210

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A.100.013

A.100.023

A.040.048

A.055.015

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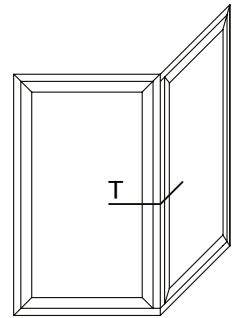
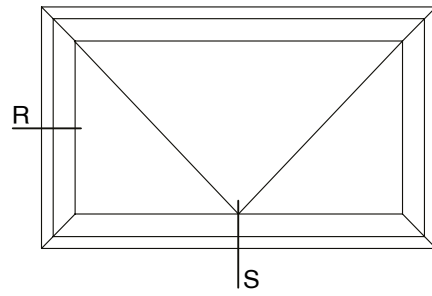
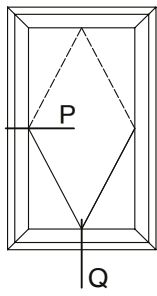
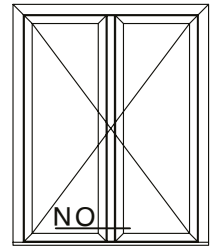
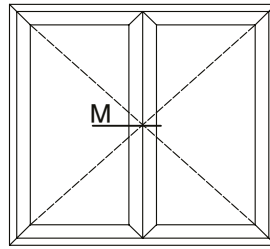
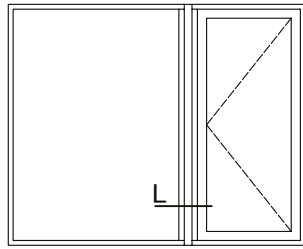
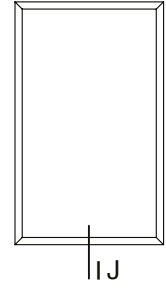
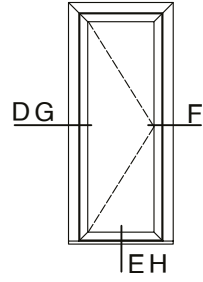
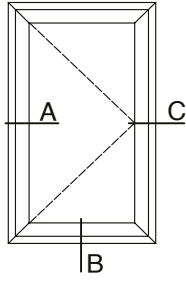
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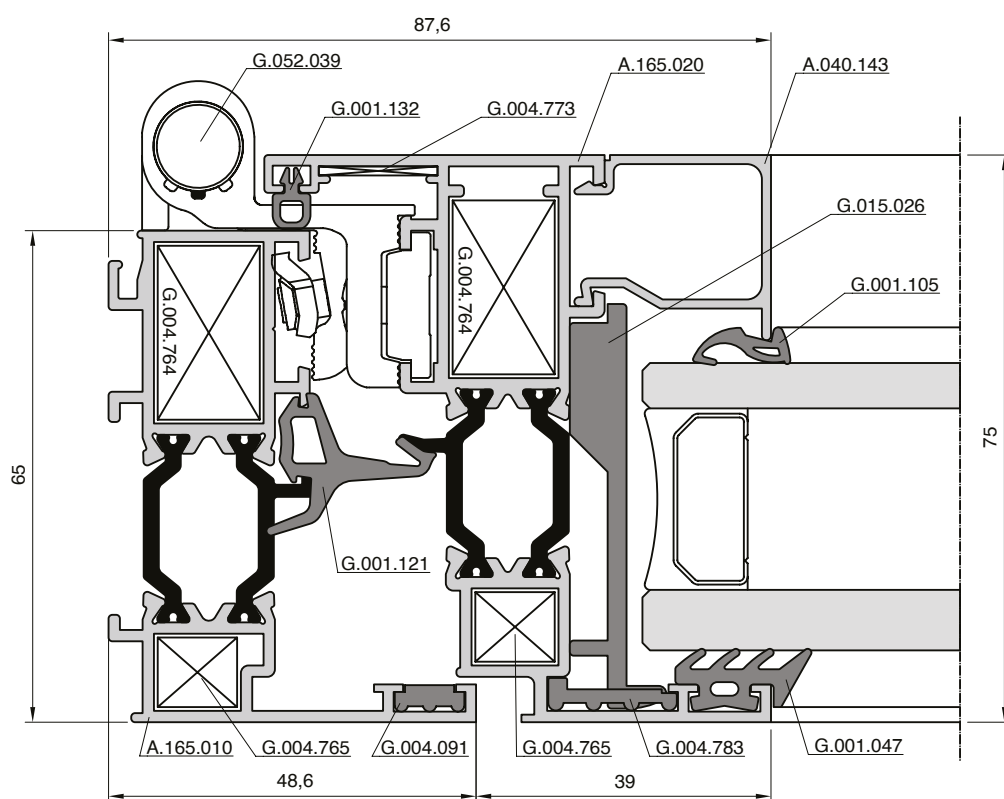
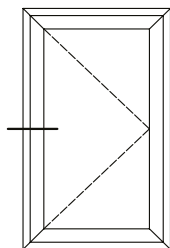
SECCÕES

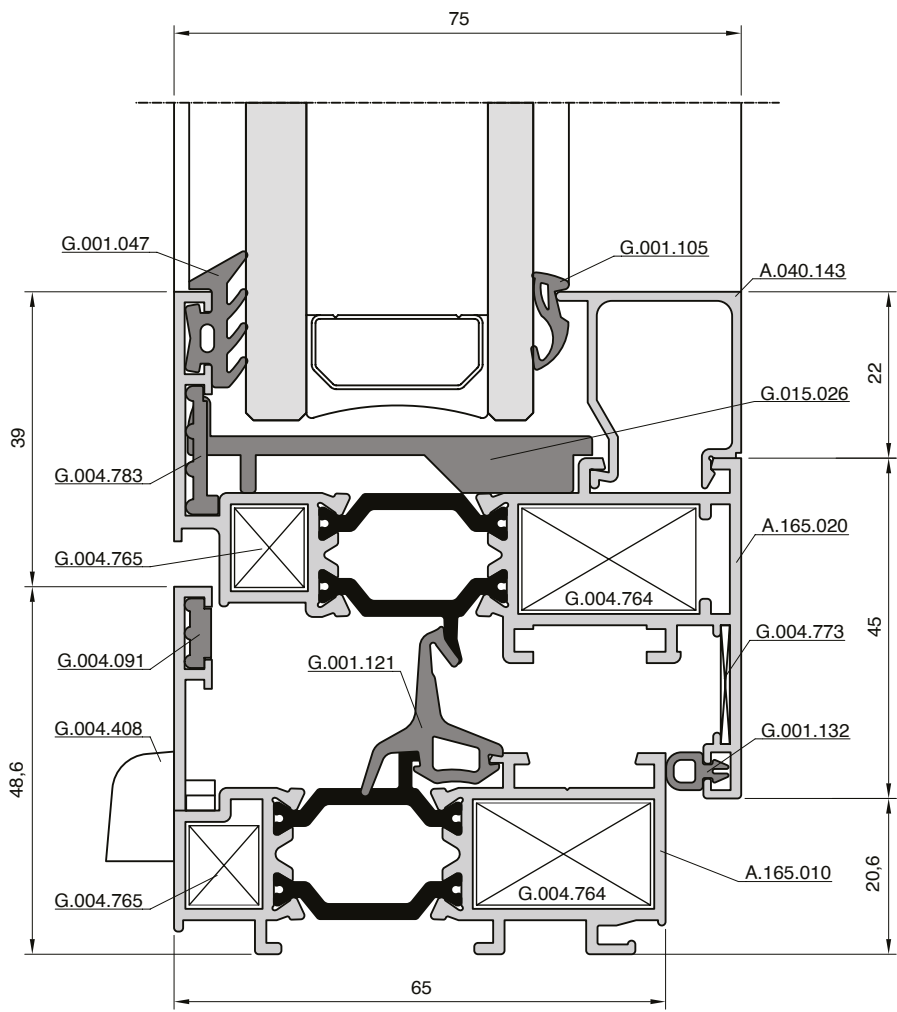
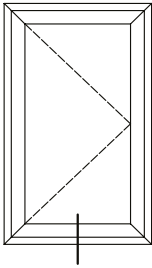
medidas em mm
escala 1.1



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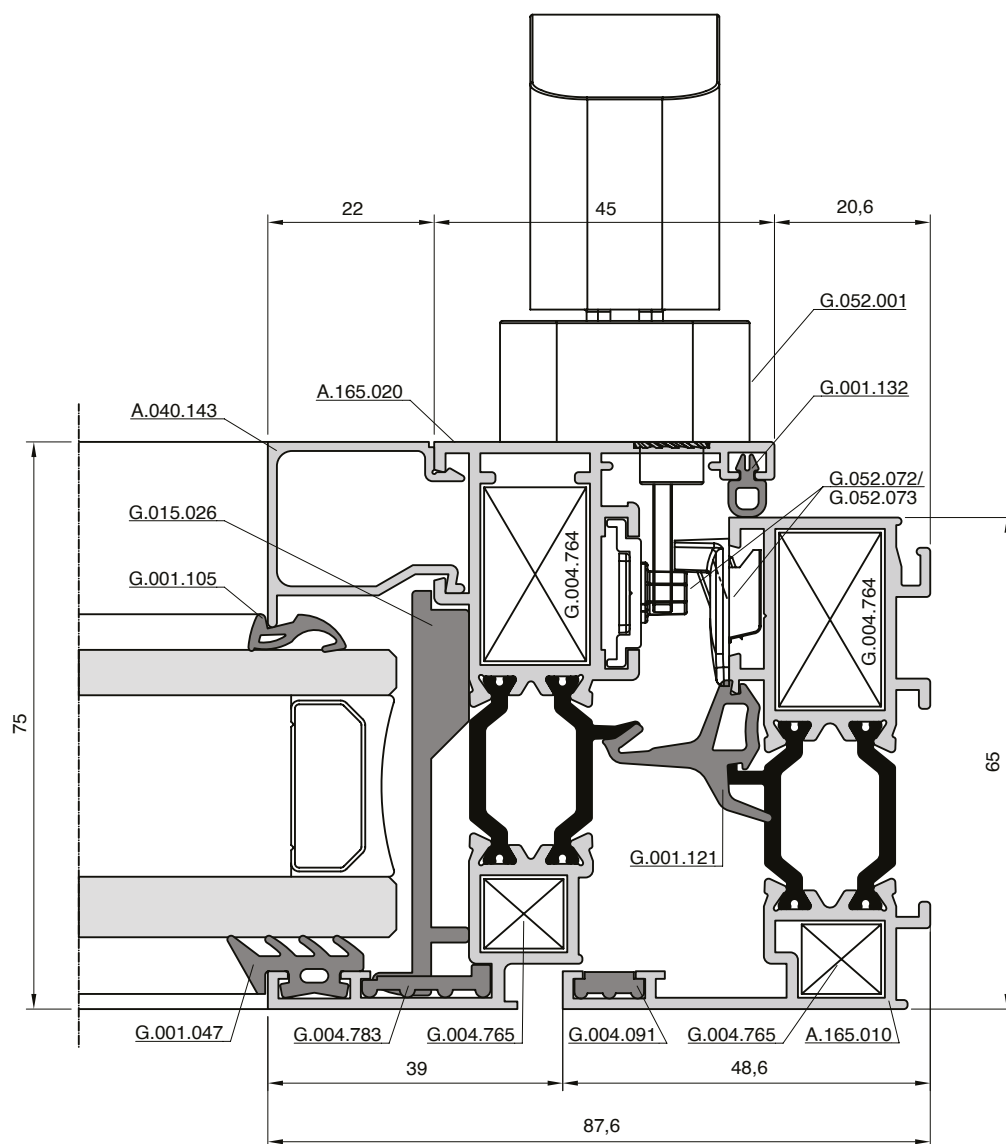
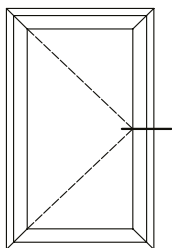
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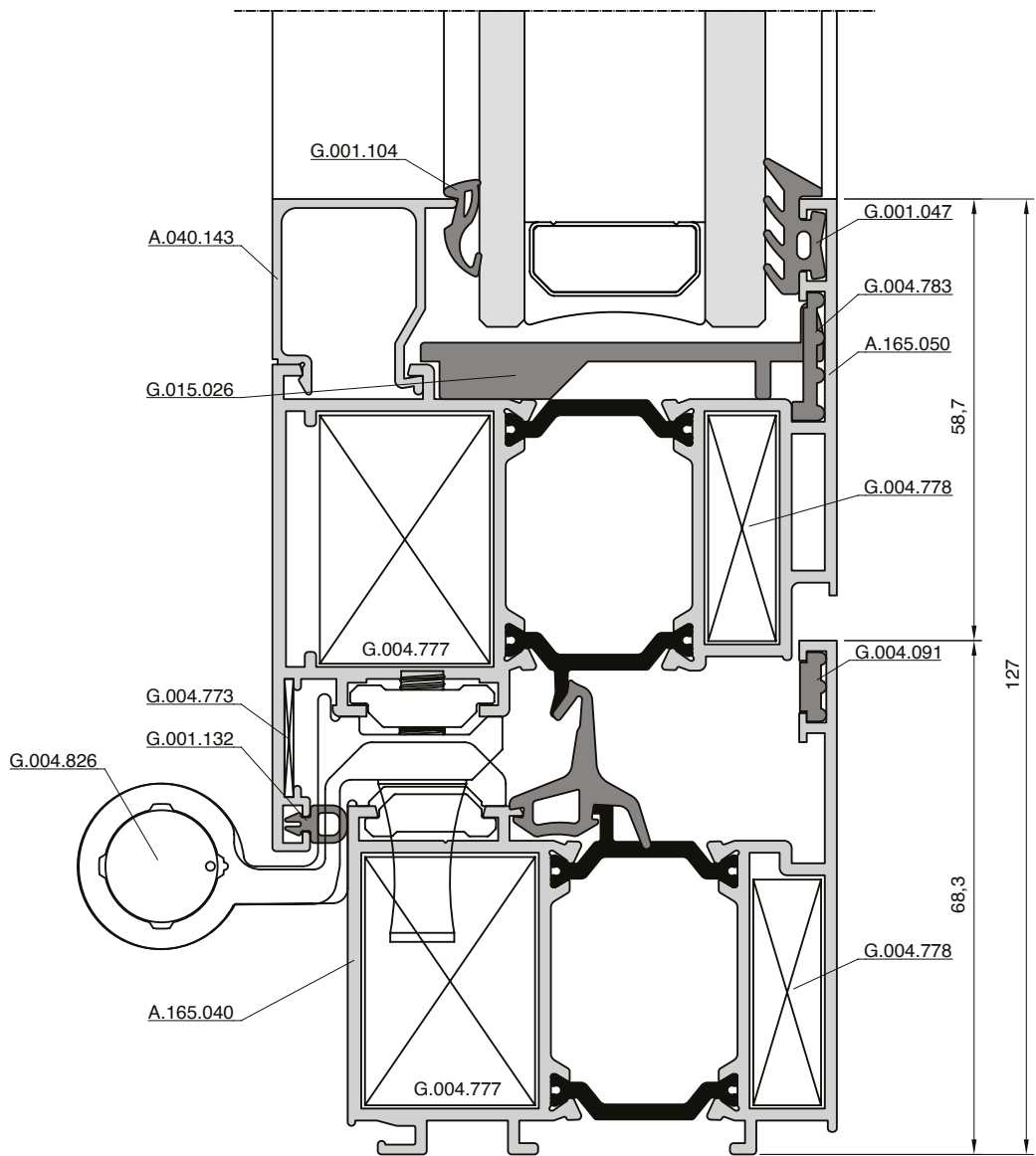
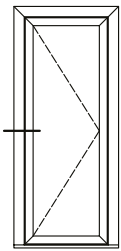
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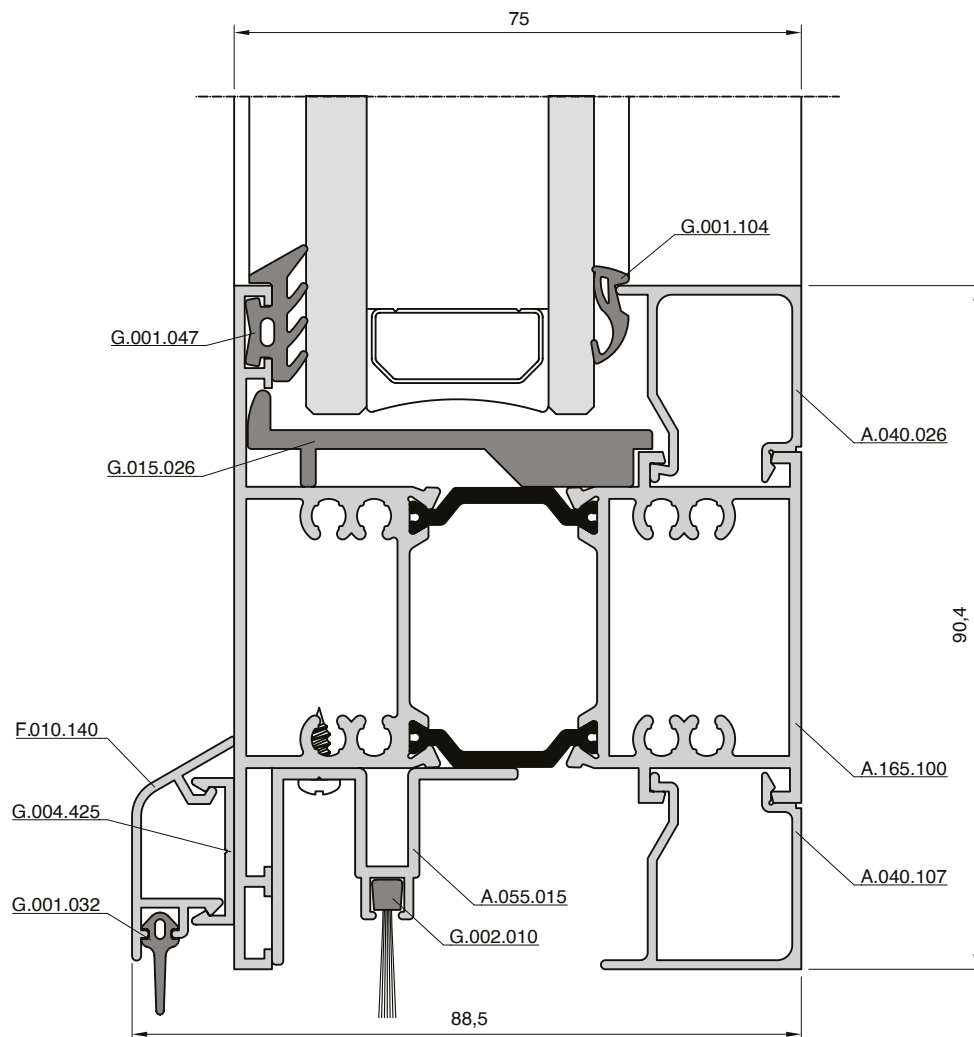
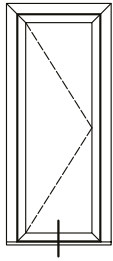
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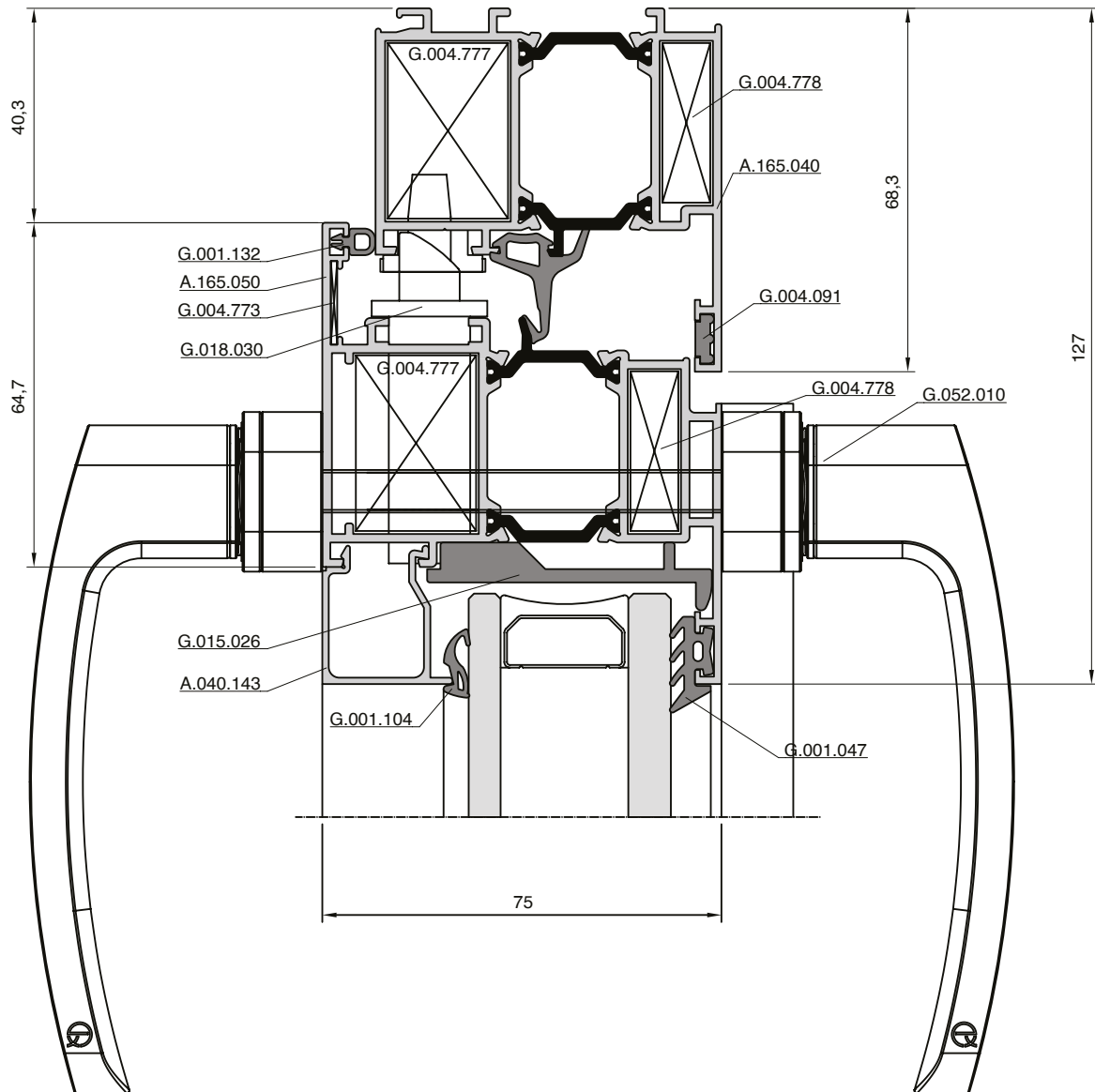




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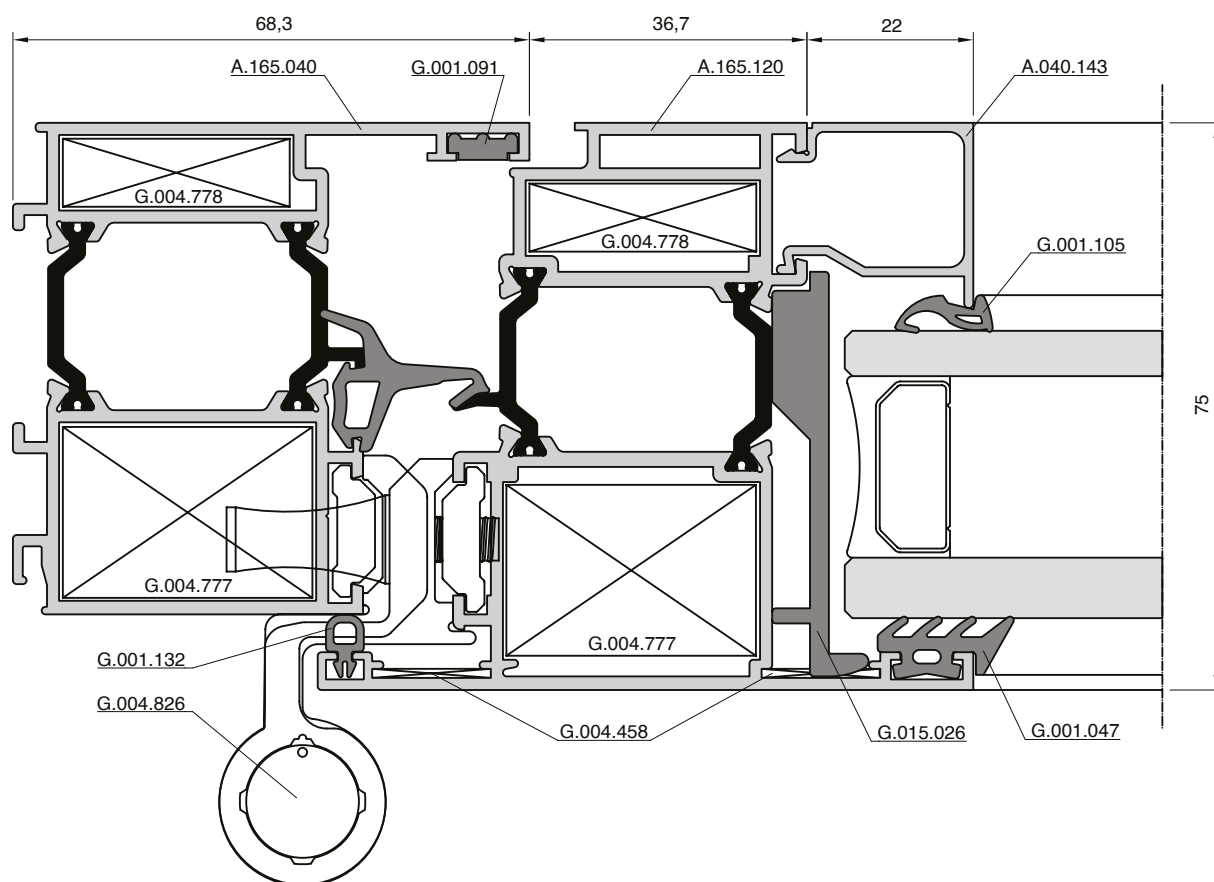
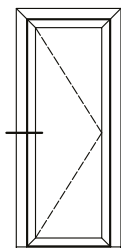




SEÇÃO G

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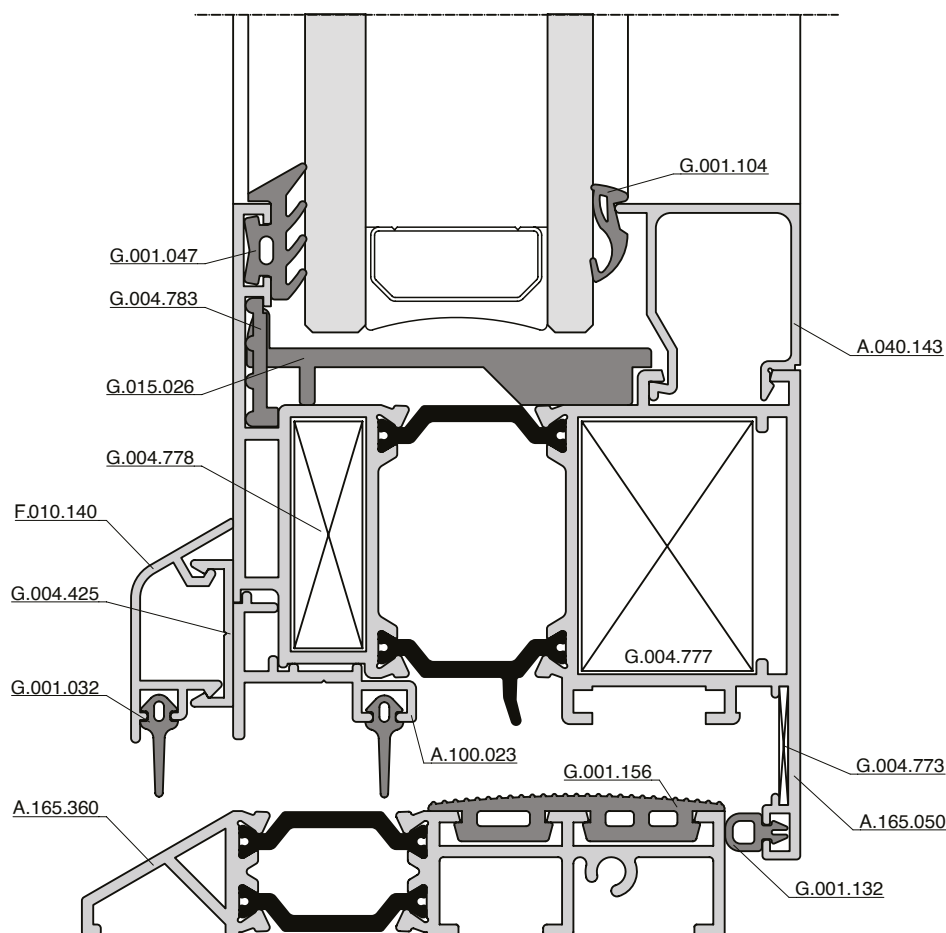
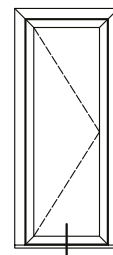
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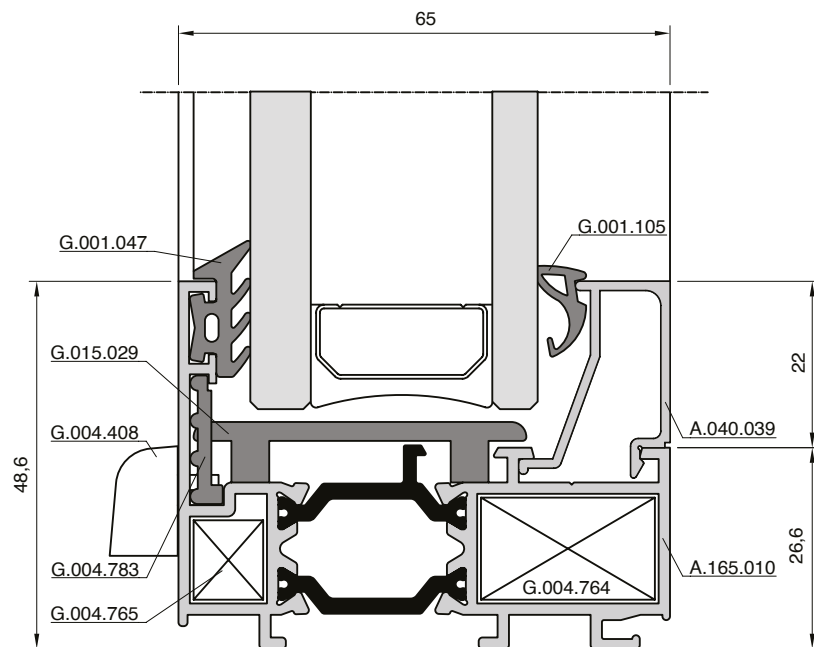
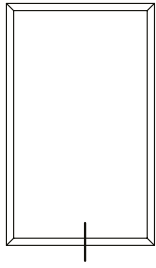
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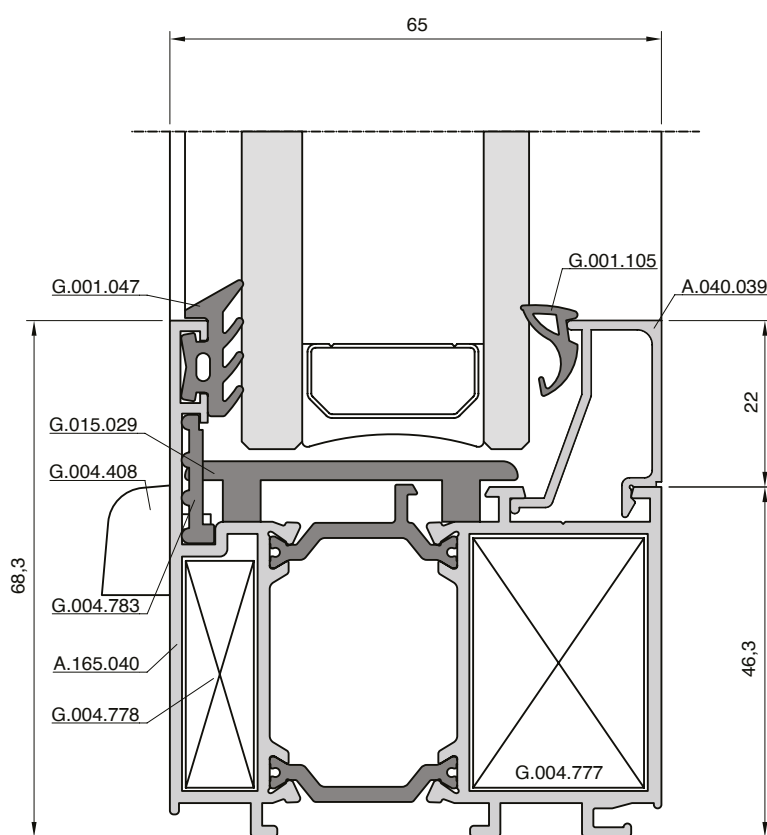
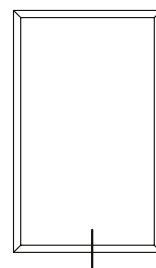
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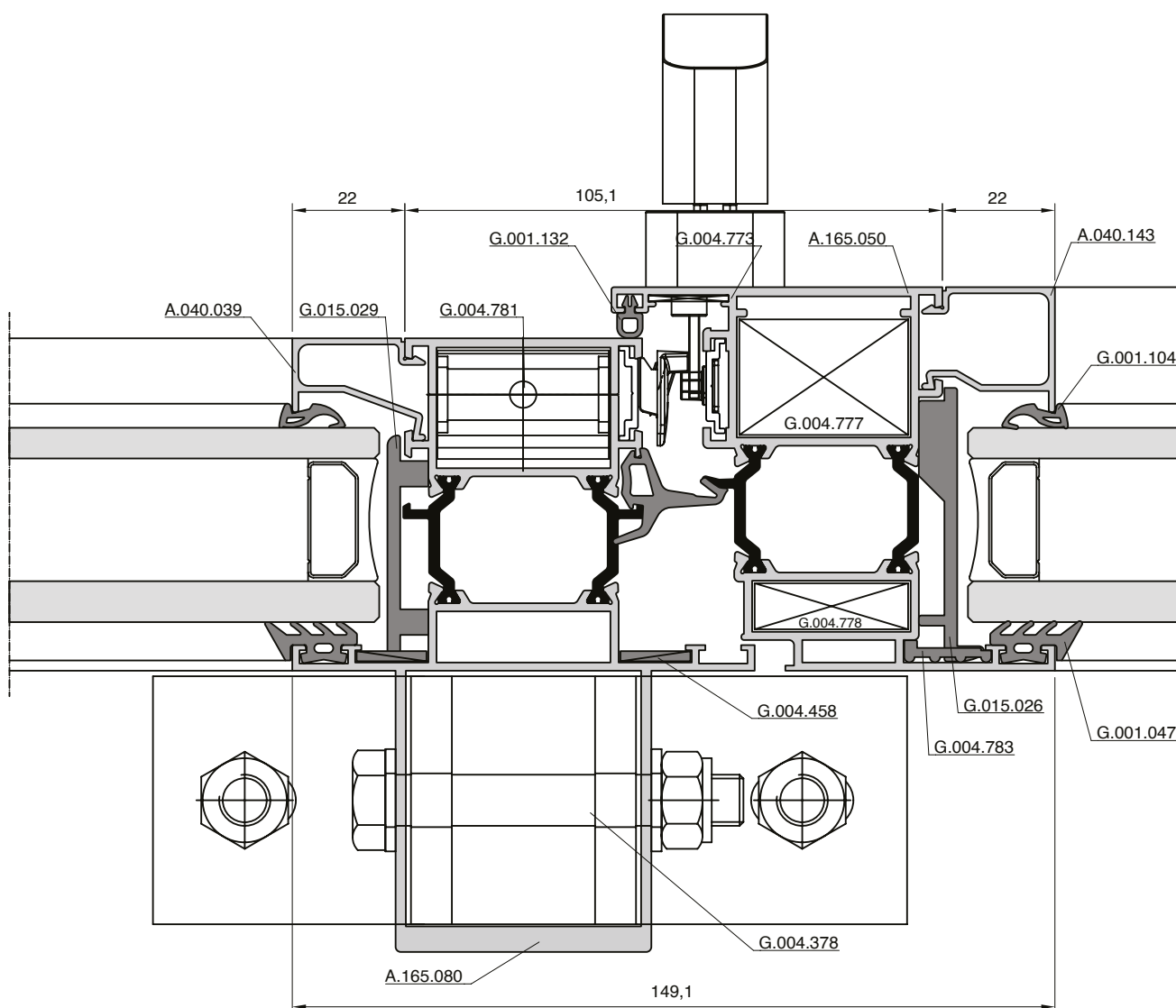
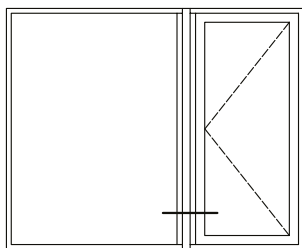
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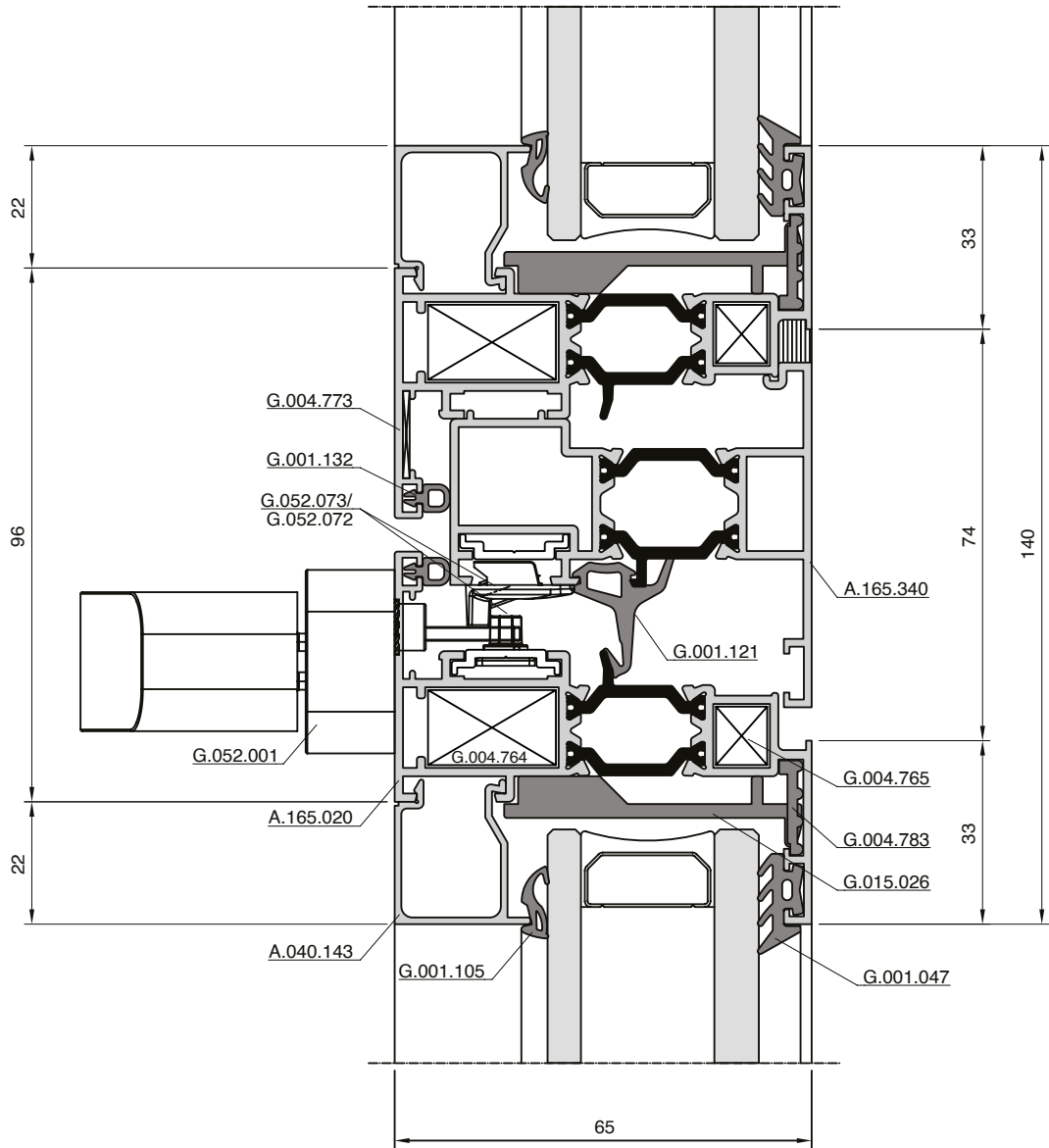
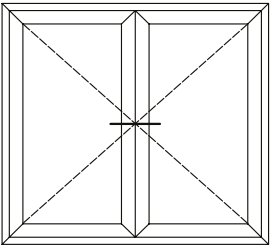
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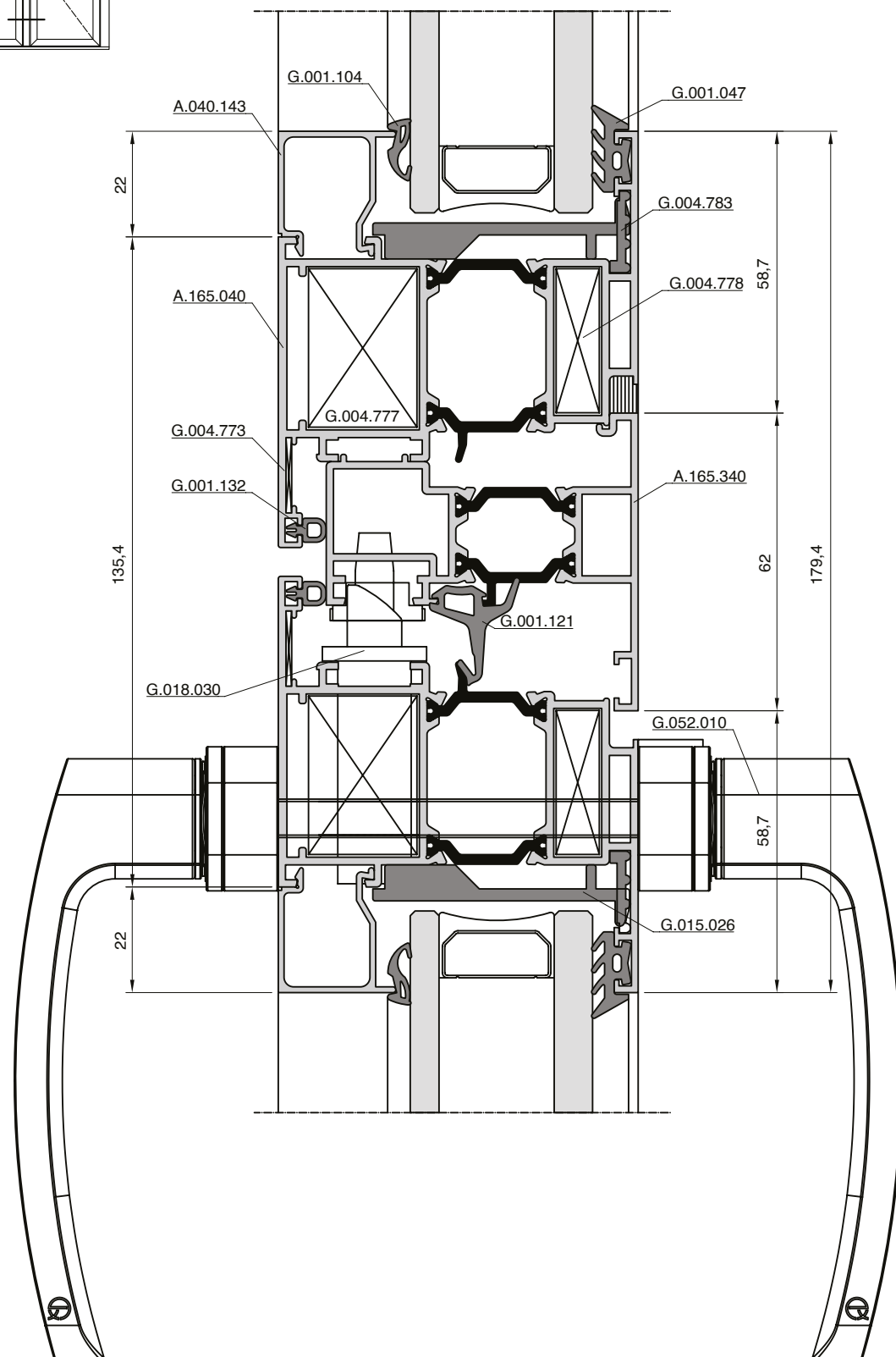
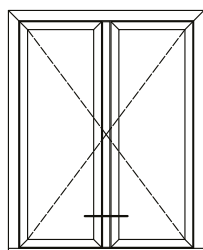


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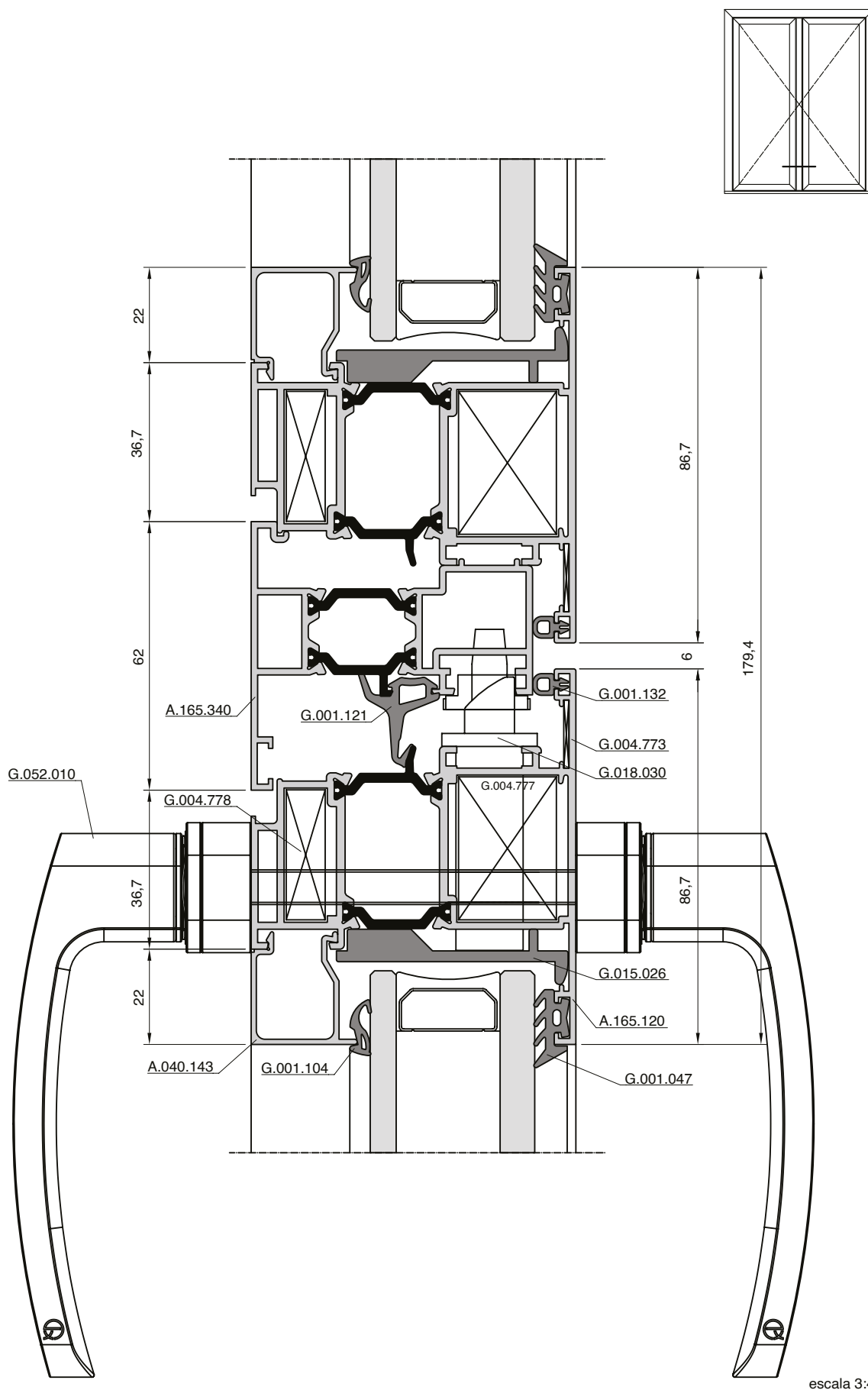


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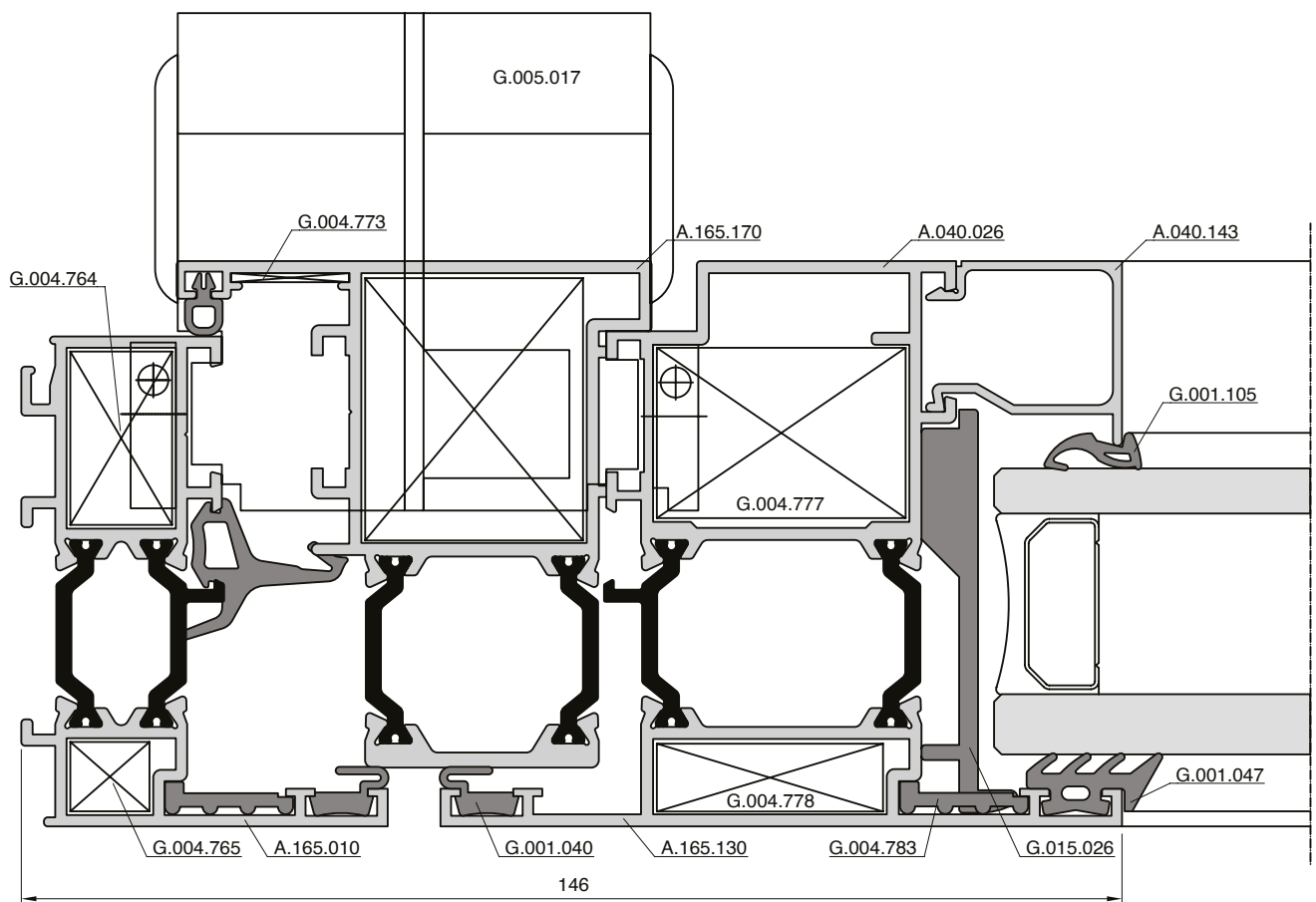
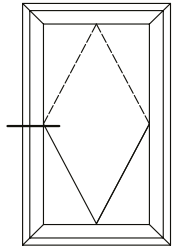
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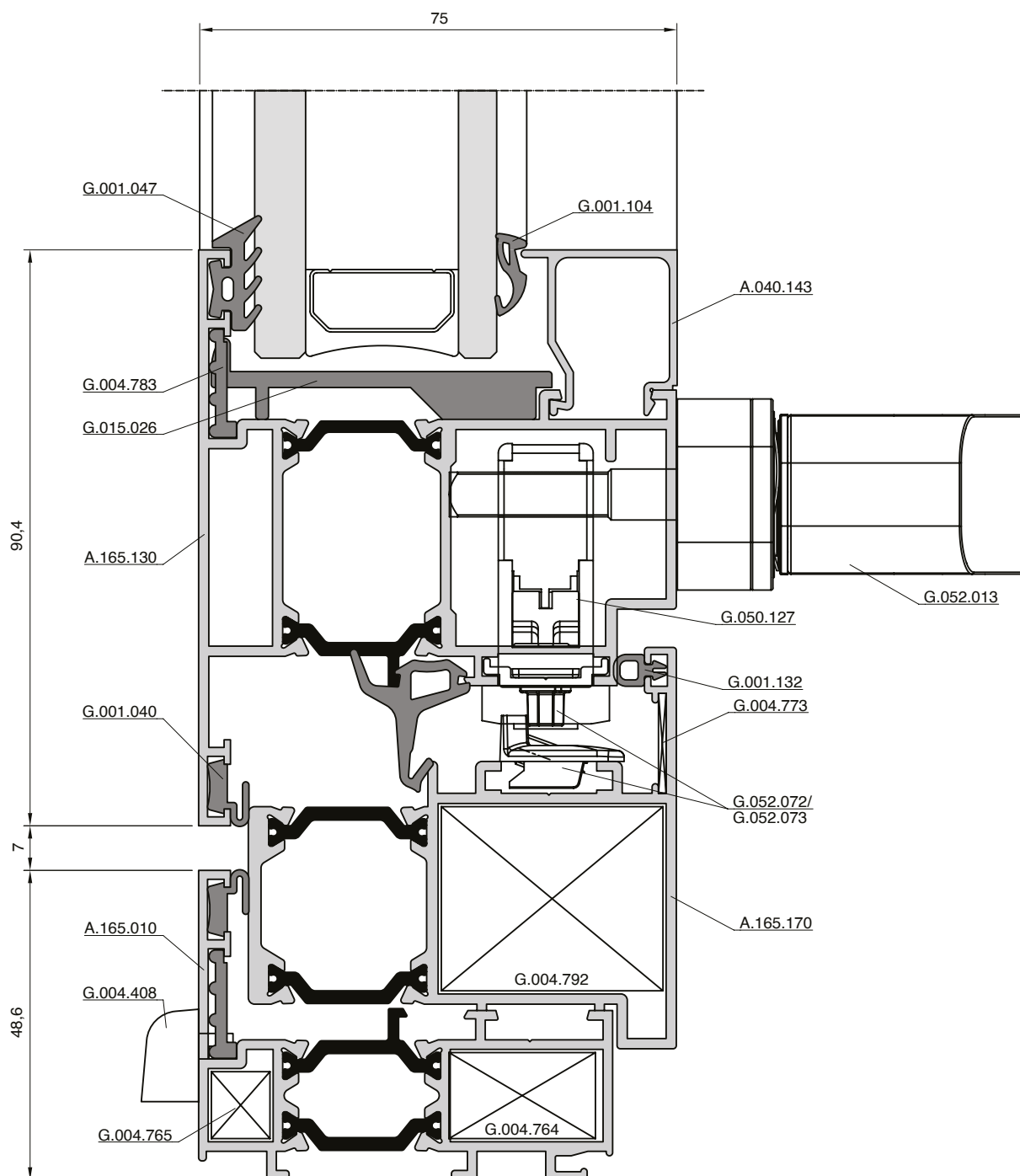
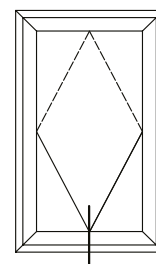
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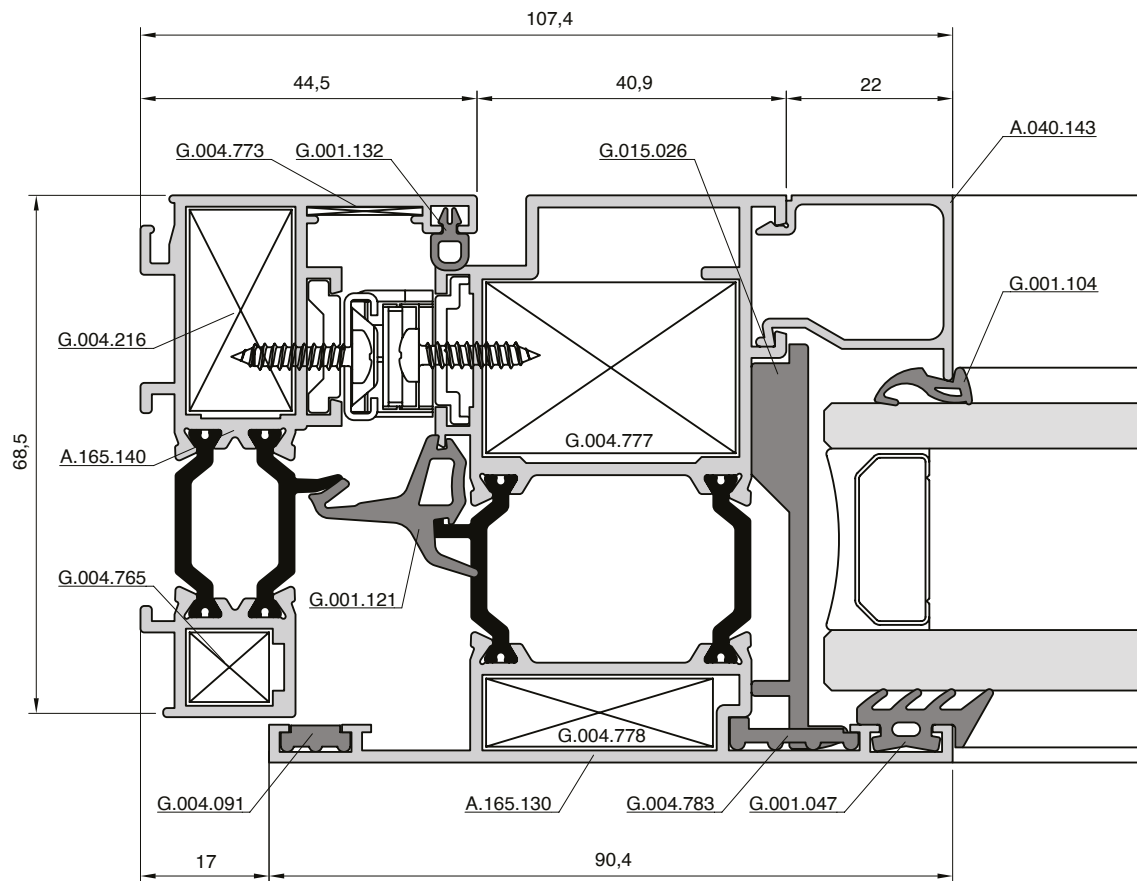
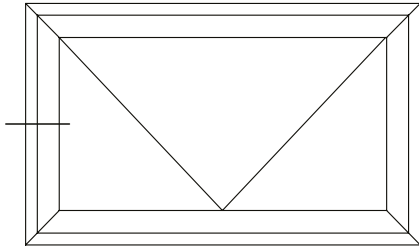
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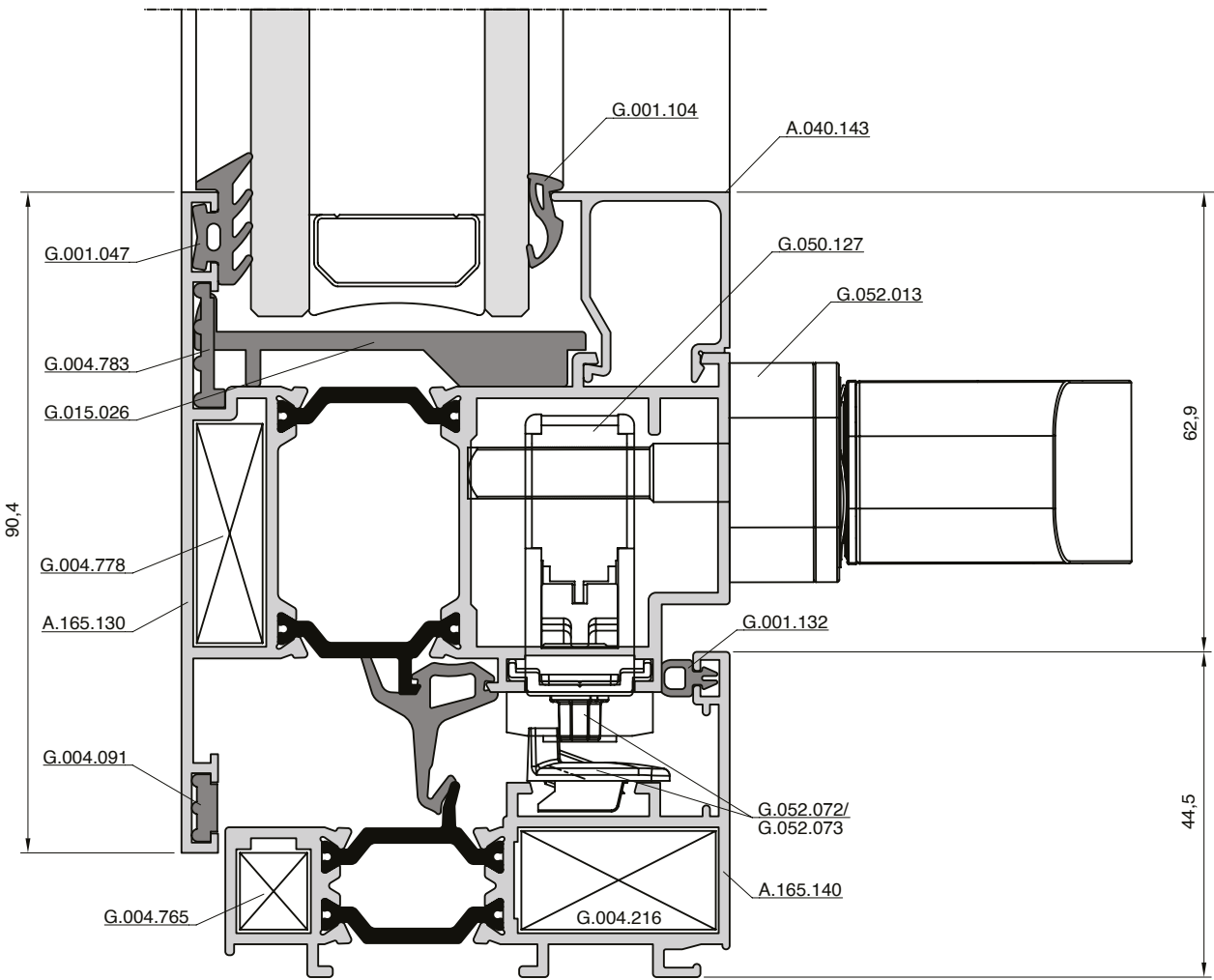
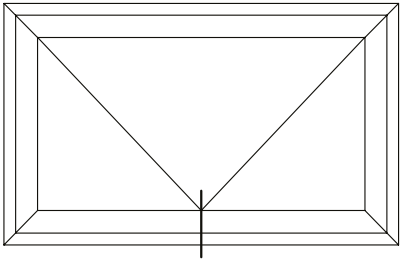
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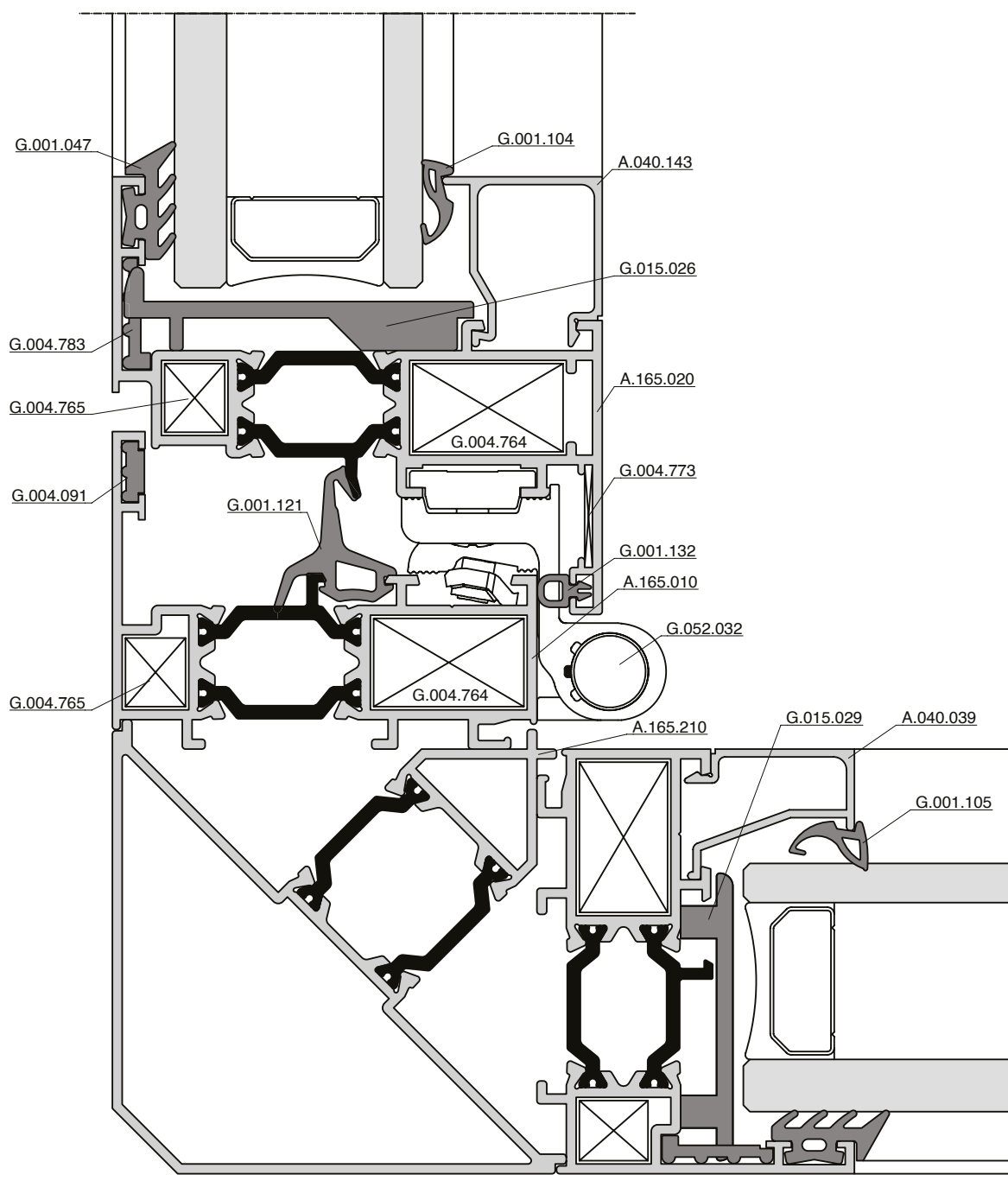
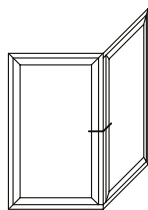
A.165



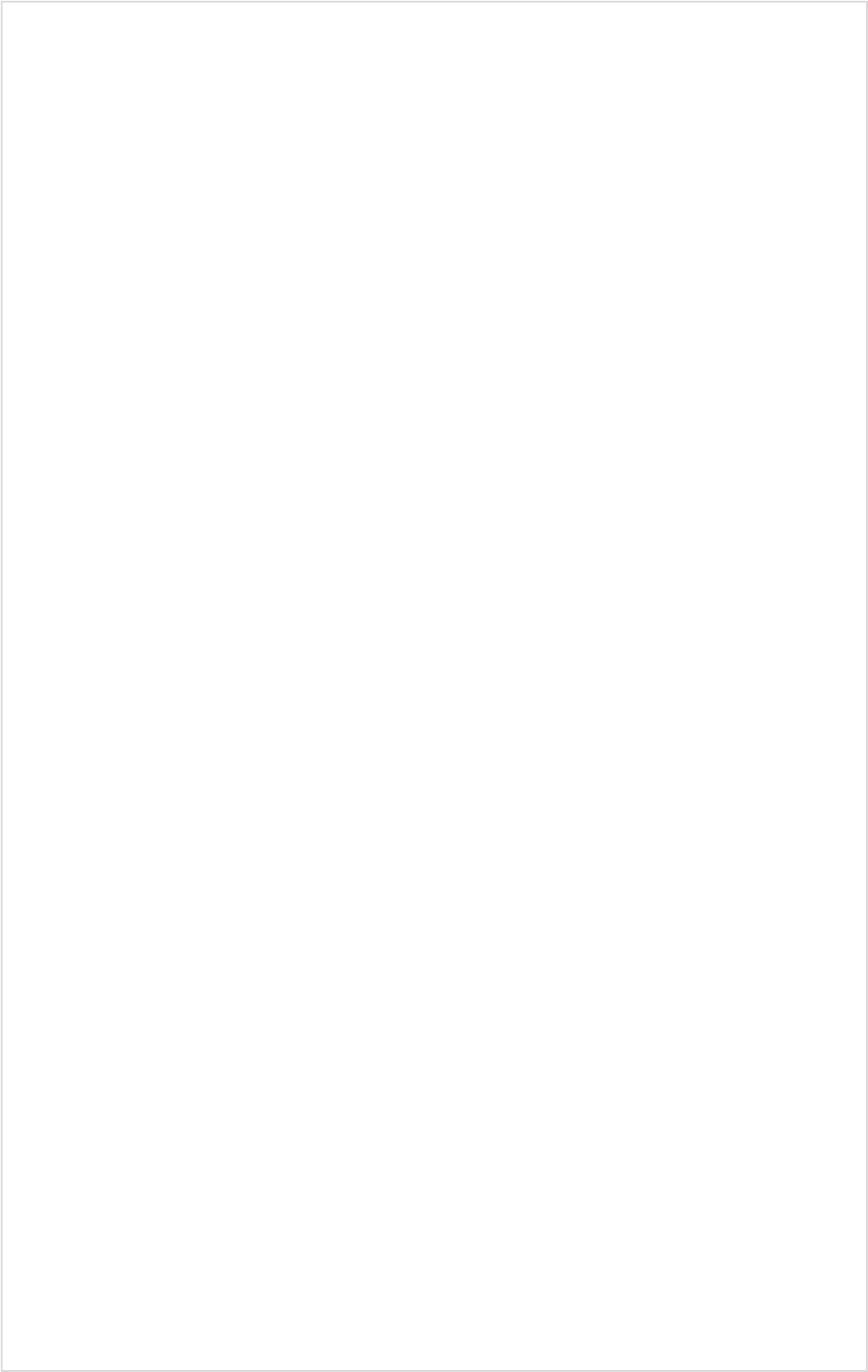


SECÇÃO T **SOLUÇÃO DE CANTO**

A.165



escala 1:2



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T. CONSTRUTIVAS

sistema de abrir RPT
A.165

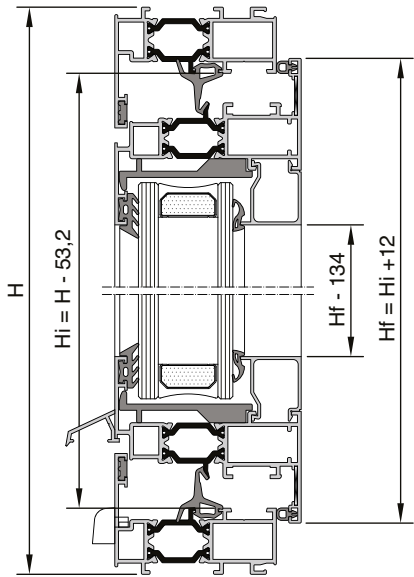
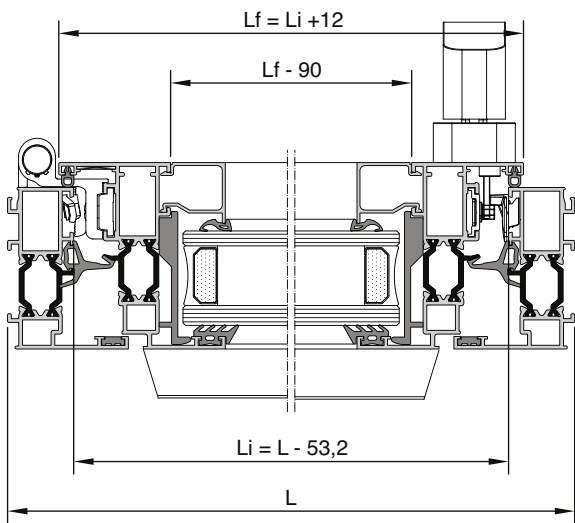
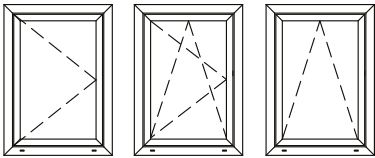
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**JANELA
UMA FOLHA**
A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.010	2	L
		2	H
	A.165.020	2	Li + 12
		2	Hi + 12
	Bite Pág. 15 - 16	2	Lf - 90
		2	Hf - 134
	A.040.048 (opcional)	1	Lf - 68

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	2L + 2H	-
	G.001.122	Canto Vulcanizado A.100	4	-
	G.001.132	Vedante de batente EPDM	-	2L + 2H
	G.004.091	Esquadro de alinhamento	4	-
	G.004.408	Goteira	2	-
	G.004.764	Esquadro de aperto (interior)	4	4
	G.004.765	Esquadro de aperto (exterior)	4	4
	G.004.773	Esquadro de alinhamento (interior)	-	4
	G.004.783	Esquadro de alinhamento (exterior)	-	4
	G.015.026	Calço vidro A.165 folha	-	4 (AB)
				6 (OB)

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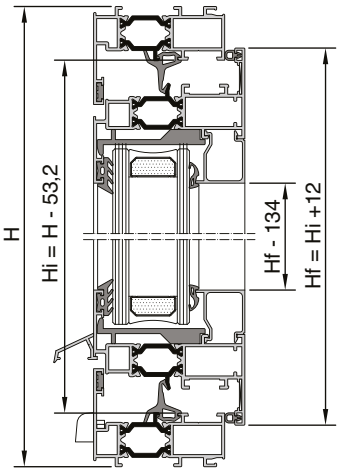
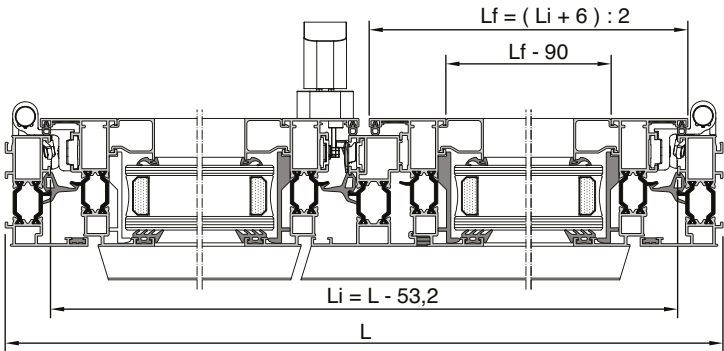
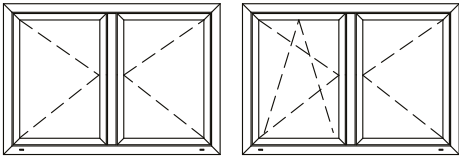
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JANELA
DUAS FOLHAS
A.165



Perfil	Ref.	Quantidade		Dimensão
	A.165.010		2	L
			2	H
	A.165.020		4	$(Li + 6) : 2$
			4	$Hi \pm 12$
	A.165.340		1	$Hf - 74$
	Bite Pág. 15 - 16		4	$Lf - 90$
			4	$Hf - 134$
	A.040.048 (opcional)		1	$Lf - 68$
			1	$Lf + 6$

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.047	Vedante vidro exterior EPDM	-	2L + 4H
	G.001.104	Vedante vidro interior EPDM	-	2L + 4H
	G.001.105	Vedante vidro interior EPDM	-	2L + 4H
	G.001.121	Vedante central A.100	2L + 2H	H
	G.001.122	Canto Vulcanizado A.100	4	-
	G.001.124	Topo p/ perfil central A.165	-	1
	G.001.132	Vedante de batente EPDM	-	2L + 4H
	G.004.091	Esquadro de alinhamento	4	-
	G.004.408	Goteira	2	-
	G.004.764	Esquadro de aperto (interior)	4	8
	G.004.765	Esquadro de aperto (exterior)	4	8
	G.004.773	Esquadro de alinhamento (interior)	-	8
	G.004.783	Esquadro de alinhamento (exterior)	-	8
	G.015.026	Calço vidro A.165 folha	-	8 (AB)
				12 (OB)

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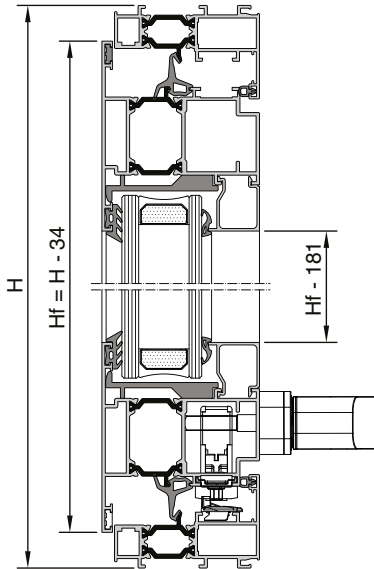
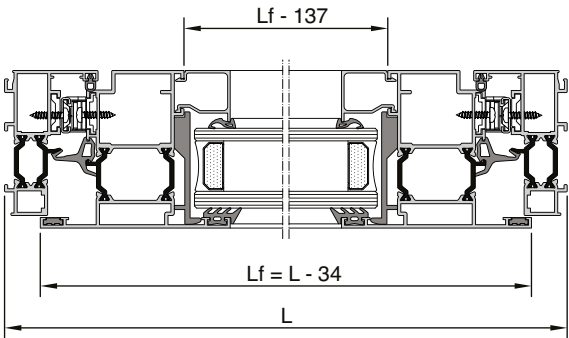
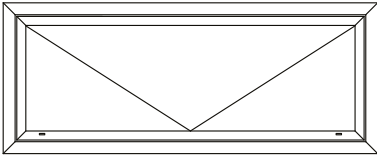
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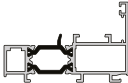
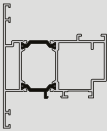
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JANELA
PROJETANTE

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.140	 2	L
		 2	H
	A.165.130	 2	L - 34
		 2	H - 34
	Bite Pág. 15 - 16	 2	Lf - 137
		 2	Hf - 181

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	-	2L + 2H
	G.001.132	Vedante de batente EPDM	-	2L + 2H
	G.004.091	Esquadro de Alinhamento	-	4
	G.004.216	Esquadro de aperto (Interior)	4	-
	G.004.408	Goteira	-	2
	G.004.765	Esquadro aperto (exterior)	4	-
	G.004.773	Esquadro de alinhamento (interior)	4	-
	G.004.777	Esquadro de aperto (interior)	-	4
	G.004.778	Esquadro de aperto (exterior)	-	4
	G.004.783	Esquadro de alinhamento (exterior)	-	4
	G.015.026	Calço vidro A.165 folha	-	10

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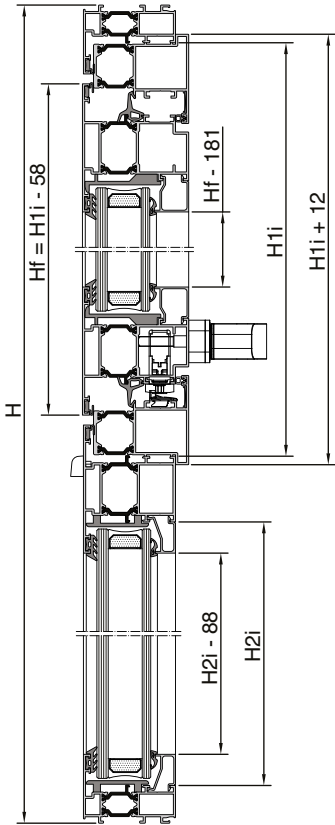
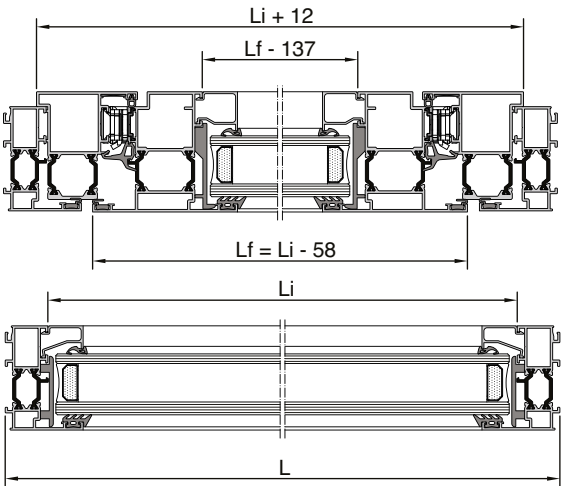
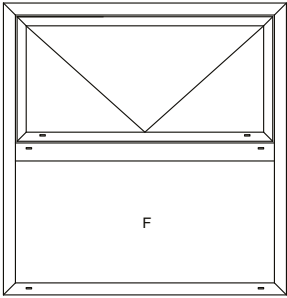
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JANELA PROJETANTE
C/ ENVIDRAÇADO FIXO

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.010	2	L
		2	H
	A.165.070	1	Li
	A.165.130	2	Li - 58
		2	H1i - 58
	A.165.170	2	Li + 12
		2	H1i + 12
	Bite Pág. 15 - 16	2	Lf - 137
		2	Hf - 131
	Bite Pág. 15 - 16	2	Li
		2	H2i - 88

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.040	Vedante batente	2L + 2H1	2L + 2H1
	G.001.047	Vedante vidro exterior EPDM	-	4L + 2H
	G.001.104	Vedante vidro interior EPDM	-	4L + 2H
	G.001.105	Vedante vidro interior EPDM	-	4L + 2H
	G.001.121	Vedante central A.100	-	2L + 2H1
	G.001.132	Vedante de batente EPDM	2L + H1	-
	G.004.216	Esquadro de aperto (Interior)	4	-
	G.004.408	Goteira	4	2
	G.004.458	Peça fixação de travessa	4	-
	G.004.764	Esquadro de aperto (interior)	4	-
	G.004.765	Esquadro de aperto (exterior)	4	-
	G.004.773	Esquadro de alinhamento (interior)	4	-
	G.004.777	Esquadro de aperto (interior)	-	4
	G.004.778	Esquadro de aperto (exterior)	-	4
	G.004.781	União travessa c/ 33,5mm	2	-
	G.004.783	Esquadro de alinhamento (exterior)	4	4
	G.004.792	Esquadro de aperto (inversor)	-	4
	G.015.026	Calço vidro A.165 folha	-	10

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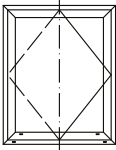
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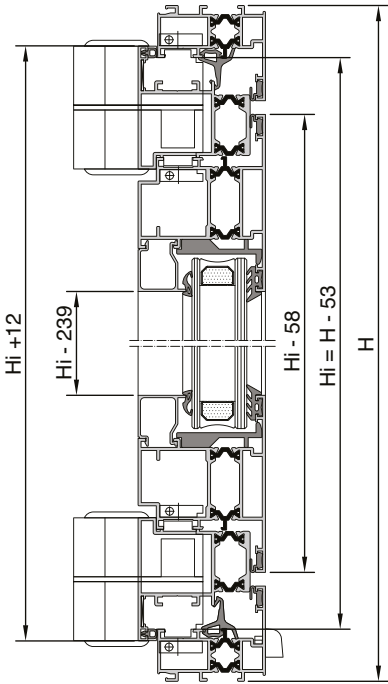
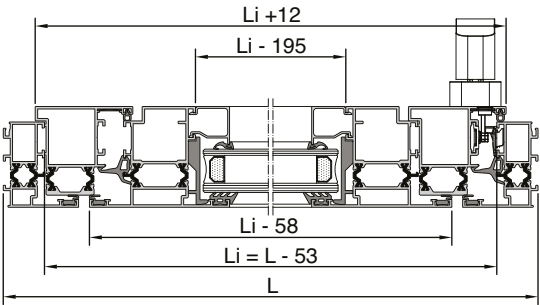
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JANELA PIVOTANTE
C/ EIXO DE ROTAÇÃO VERTICAL

A.165



Largura máxima	1200mm
Altura máxima	1200mm
Peso máximo	80kg



Perfil	Ref.	Quantidade	Dimensão
	A.155.010	2	L
		2	H
	A.155.170	2	Li + 12
		2	Hi + 12
	A.155.130	2	Li - 58
		2	Hi - 58
	Bíte Pág. 15 - 16	2	Li - 195
		2	Hi - 239

Para mais informações consultar **Anexo A.01**

JANELA PIVOTANTE

C/ EIXO DE ROTAÇÃO VERTICAL

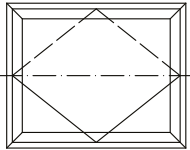
A.165

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.040	Vedante batente	2L + 2H	2L + 2H
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	L + H	L + H
	G.001.132	Vedante de batente EPDM	L + H	L + H
	G.004.408	Goteira	2	2
	G.004.764	Esquadro aberto (interior)	4	-
	G.004.765	Esquadro aberto (exterior)	4	-
	G.004.773	Esquadro de alinhamento (interior)	-	4
	G.004.777	Esquadro de aperto (interior)	-	4
	G.004.778	Esquadro de aperto (exterior)	-	4
	G.004.783	Esquadro de alinhamento (exterior)	4	4
	G.004.792	Esquadro de aperto (inversor)	-	4
	G.015.025	Calço vidro A.155 folha	-	10

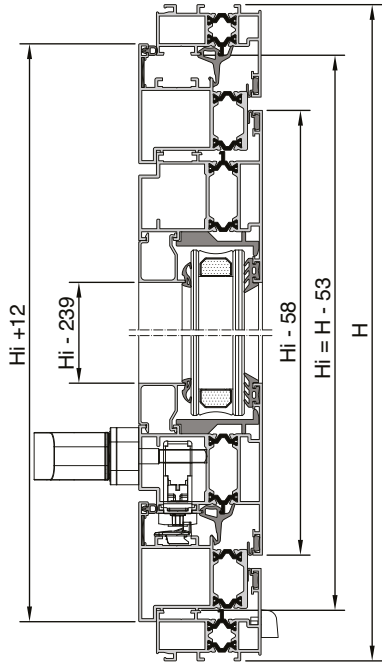
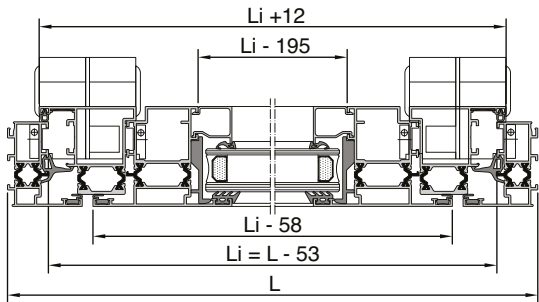
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JANELA PIVOTANTE
C/ EIXO DE ROTAÇÃO HORIZONTAL

A.165



Largura máxima	1200mm
Altura máxima	1200mm
Peso máximo	60kg



Perfil	Ref.	Quantidade	Dimensão
	A.155.010	2	L
		2	H
	A.155.170	2	Li + 12
		2	Hi + 12
	A.155.130	2	Li - 58
		2	Hi - 58
	Bite Pág. 15 - 16	2	Li - 195
		2	Hi - 239

Para mais informações consultar **Anexo A.01**

JANELA PIVOTANTE

C/ EIXO DE ROTAÇÃO HORIZONTAL

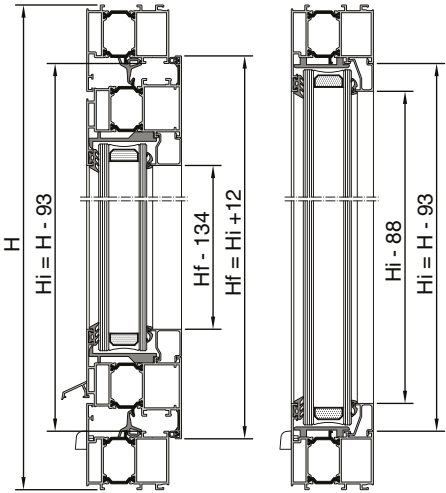
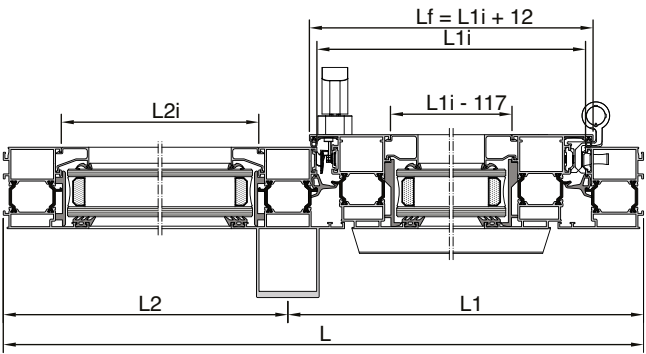
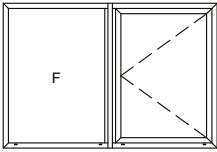
A.165

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.040	Vedante batente	2L + 2H	2L + 2H
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	L + H	L + H
	G.001.132	Vedante de batente EPDM	L + H	L + H
	G.004.408	Goteira	2	2
	G.004.764	Esquadro aberto (interior)	4	-
	G.004.765	Esquadro aberto (exterior)	4	-
	G.004.773	Esquadro de alinhamento (interior)	-	4
	G.004.777	Esquadro de aperto (interior)	-	4
	G.004.778	Esquadro de aperto (exterior)	-	4
	G.004.783	Esquadro de alinhamento (exterior)	4	4
	G.004.792	Esquadro de aperto (inversor)	-	4
	G.015.025	Calço vidro A.155 folha	-	10

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PORTA UMA FOLHA
C/ ENVIDRAÇADO FIXO

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	2	L
		2	H
	A.165.050	2	L1i + 12
		2	Hi + 12
	A.165.080	1	H
	Bite Pág. 15 - 16	2	L1i - 117
		2	Hf - 134
		2	L2i
		2	Hi - 88
	A.040.048 (opcional)	1	Lf - 68

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.047	Vedante vidro exterior EPDM	-	2L + 4H
	G.001.104	Vedante vidro interior EPDM	-	2L + 4H
	G.001.105	Vedante vidro interior EPDM	-	2L + 4H
	G.001.121	Vedante central A.100	2L + 2H	-
	G.001.122	Canto vulcanizado A.100	4	-
	G.001.132	Vedante de batente EPDM	-	2L1 + 2H
	G.004.408	Goteira	4	-
	G.004.458	Peça fixação de travessa	4	-
	G.004.777	Esquadro aberto (interior)	4	4
	G.004.778	Esquadro aberto (exterior)	4	4
	G.004.773	Esquadro de alinhamento (interior)	-	4
	G.004.781	União travessa c/ 33,5mm	2	-
	G.004.783	Esquadro de alinhamento (exterior)	4	4
	G.015.026	Calço vidro A.165 folha	-	4
	G.015.029	Calço vidro A.165 aro	-	4

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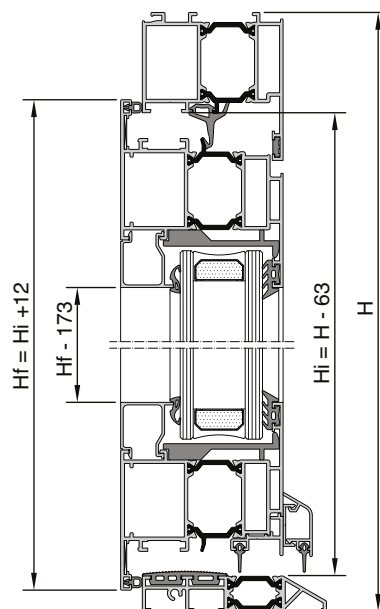
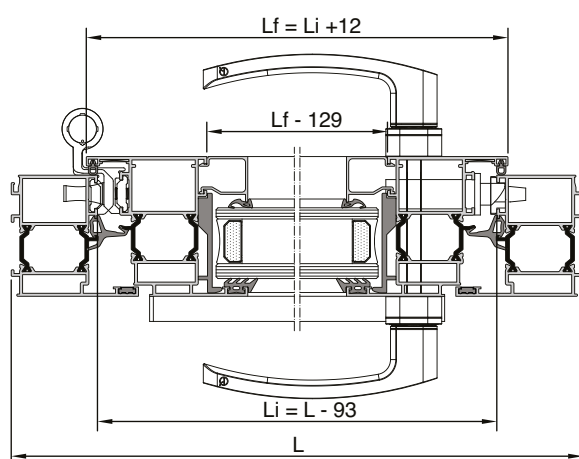
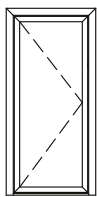
Instruções Fábri-co
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PORTA UMA FOLHA C/ FECHADURA E SOLEIRA

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	1	L
		2	H - 16,5
	A.165.050	2	Li + 12
		2	Hi + 12
	A.165.360	1	L
	Bite Pág. 15 - 16	2	Lf - 129
		2	Hf - 173
	A.100.023	1	Lf - 51
	F.010.140	1	Lf - 72

PORTA UMA FOLHA C/ FECHADURA E SOLEIRA

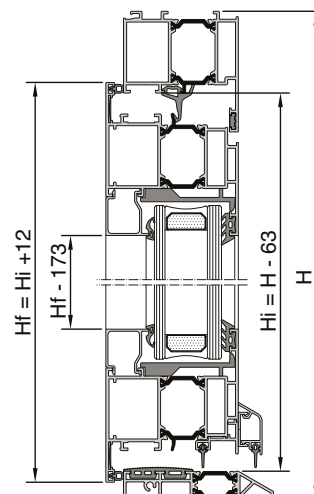
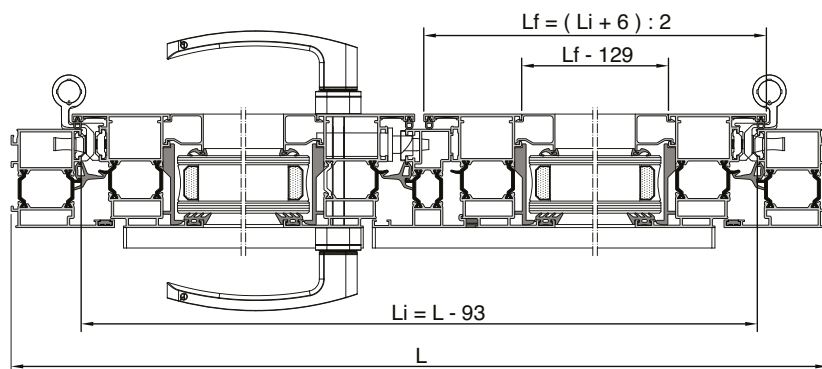
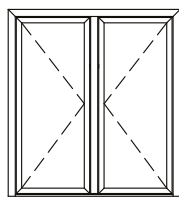
A.165

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.032	Vedante p/ pingadeira EPDM	-	2L
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	L + 2H	-
	G.001.122	Canto vulcanizado A.100	2	-
	G.001.132	Vedante de batente EPDM	-	2L + 2H
	G.001.156	Vedante soleira	L	-
	G.004.091	Esquadro alinhamento	2	-
	G.004.389	Topo p/ pingadeira F.010.140 (Par)	-	1
	G.004.425	Fixador pingadeira	-	3
	G.004.773	Esquadro de alinhamento (interior)	-	4
	G.004.777	Esquadro de aperto (interior)	2	4
	G.004.778	Esquadro de aperto (exterior)	2	4
	G.004.783	Esquadro de alinhamento (exterior)	-	4
	G.004.781	União soleira/aró c/ 33,5mm	2	-
	G.015.026	Calço vidro A.165 folha	-	4

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PORTA DUAS FOLHAS C/ FECHADURA E SOLEIRA

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	1	L
		2	H - 16,5
	A.165.050	4	$(L_i + 6)/2$
		4	$H_i + 12$
	A.165.340	1	$H_f - 74$
	A.165.360	1	L
	Bite Pág. 15 - 16	4	$L_f - 129$
		4	$H_f - 173$
	A.100.023	1	$L_f - 51$
	F.010.140	2	$L_f - 72$

PORTA DUAS FOLHAS C/ FECHADURA E SOLEIRA

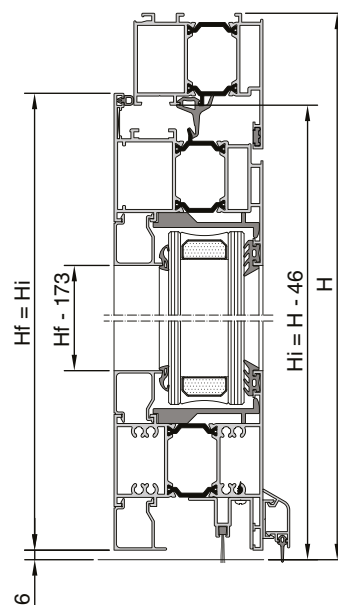
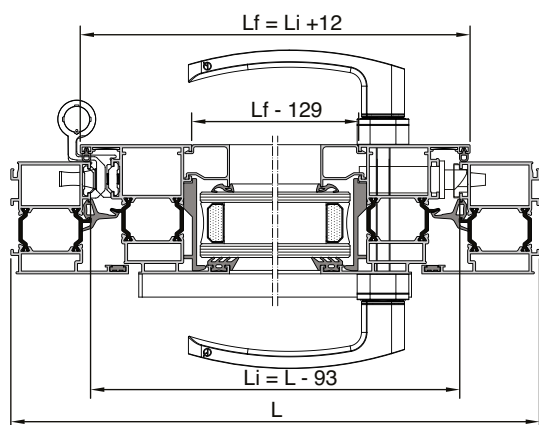
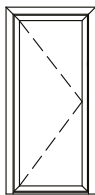
A.165

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.032	Vedante p/ pingadeira EPDM	-	2L
	G.001.047	Vedante vidro exterior EPDM	-	2L + 4H
	G.001.104	Vedante vidro interior EPDM	-	2L + 4H
	G.001.105	Vedante vidro interior EPDM	-	2L + 4H
	G.001.121	Vedante central A.100	L + 2H	H
	G.001.122	Canto vulcanizado A.100	2	-
	G.001.124	Topo p/ perfil central A.165	-	1
	G.001.132	Vedante de batente EPDM	-	2L + 4H
	G.001.156	Vedante soleira	L	-
	G.004.091	Esquadro de Alinhamento	2	-
	G.004.389	Topo p/ pingadeira F.010.140 (Par)	-	2
	G.004.425	Fixador pingadeira	-	6
	G.004.773	Esquadro de alinhamento (interior)	-	8
	G.004.777	Esquadro de aperto (interior)	2	8
	G.004.778	Esquadro de aperto (exterior)	2	8
	G.004.783	Esquadro de alinhamento (exterior)	-	8
	G.004.781	União soleira/aro c/ 33,5mm	2	-
	G.015.026	Calço vidro A.165 folha	-	4

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PORTA UMA FOLHA C/ FECHADURA

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	1	L
		2	H
	A.165.050	1	$L_i + 12$
		2	H_i
	A.165.100	1	$L_f - 120$
	Bite Pág. 15 - 16	2	$L_f - 129$
		2	$H_f - 173$
	A.055.015	1	$L_f - 24$
	F.010.140	1	$L_f - 72$

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.032	Vedante p/ pingadeira EPDM	-	L
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	L + 2H	-
	G.001.122	Canto vulcanizado A.100	2	-
	G.001.132	Vedante de batente EPDM	-	L + 2H
	G.002.010	Escova p/ vedação	-	L
	G.004.091	Esquadro alinhamento	2	-
	G.004.389	Topo p/ pingadeira F.010.140 (Par)	-	1
	G.004.425	Fixador pingadeira	-	3
	G.004.773	Esquadro de alinhamento (interior)	-	2
	G.004.777	Esquadro de aperto (interior)	2	2
	G.004.778	Esquadro de aperto (exterior)	2	2
	G.004.783	Esquadro de alinhamento (exterior)	-	2
	G.015.026	Calço vidro A.165 folha	-	4

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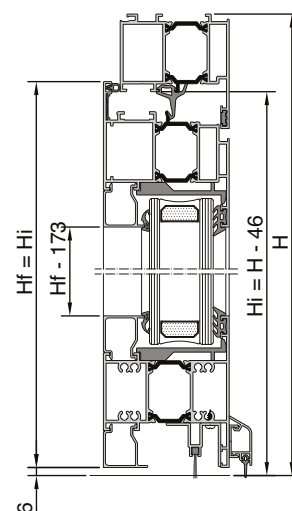
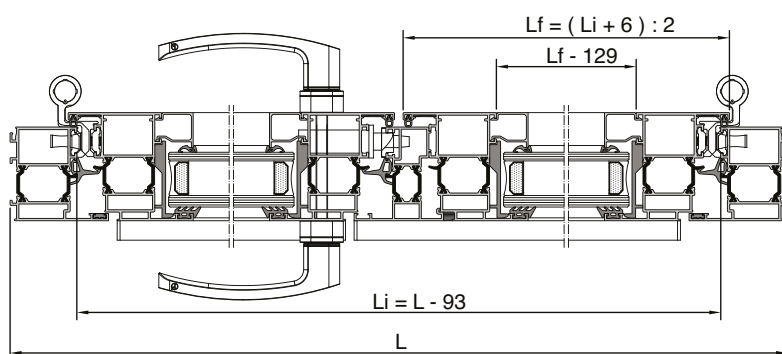
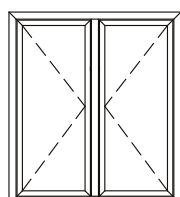
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PORTA DUAS FOLHAS C/ FECHADURA

A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	1	L
		2	H
	A.165.050	4	$(Li + 6)/2$
		4	Hi
	A.165.100	2	Lf - 120
	A.165.340	1	Hf - 37
	Bite Pág. 15 - 16	4	Lf - 129
		4	Hf - 173
	A.055.015	2	Lf - 24
	F.010.140	1	Lf - 72
		1	Lf - 4

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.032	Vedante p/ pingadeira EPDM	-	L
	G.001.047	Vedante vidro exterior EPDM	-	2L + 4H
	G.001.104	Vedante vidro interior EPDM	-	2L + 4H
	G.001.105	Vedante vidro interior EPDM	-	2L + 4H
	G.001.121	Vedante central A.100	L + 2H	H
	G.001.122	Canto vulcanizado A.100	2	-
	G.001.124	Topo p/ perfil central A.165	-	1
	G.001.132	Vedante de batente EPDM	-	L + 4H
	G.002.010	Escova p/ vedação	-	L
	G.004.091	Esquadro alinhamento	2	-
	G.004.389	Topo p/ pingadeira F.010.140 (Par)	-	2
	G.004.425	Fixador pingadeira	-	6
	G.004.773	Esquadro de alinhamento (interior)	-	8
	G.004.777	Esquadro de aperto (interior)	2	4
	G.004.778	Esquadro de aperto (exterior)	2	4
	G.004.783	Esquadro de alinhamento (exterior)	-	4
	G.015.026	Calço vidro A.165 folha	-	4

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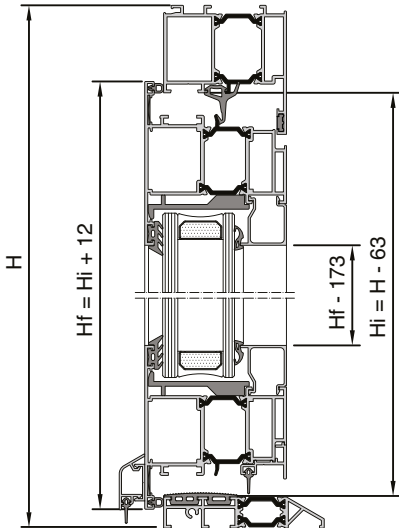
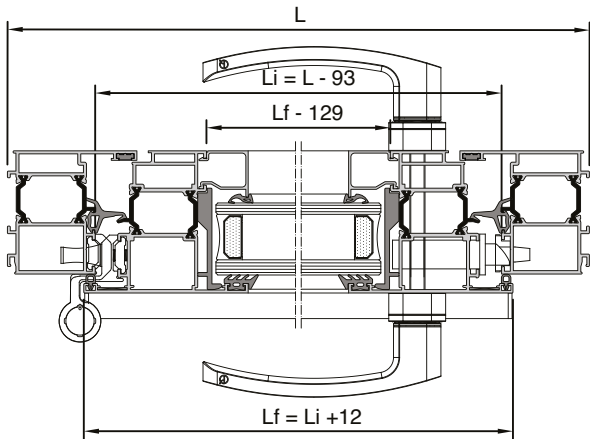
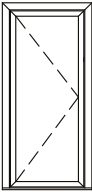
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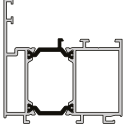
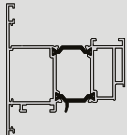
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PORTA ABERTURA EXTERIOR
C/ FECHADURA E SOLEIRA

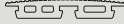
A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	 1	L
		 2	H - 16,5
	A.165.120	 2	Li + 12
		 2	Hi + 12
	A.165.360	 1	L
	Bite Pág. 15 - 16	 2	Lf - 129
		 2	Hf - 173
	A.100.023	 1	Lf - 51
	F.010.140	 1	Lf - 72

PORTA ABERTURA EXTERIOR C/ FECHADURA E SOLEIRA

A.165

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.032	Vedante p/ pingadeira EPDM	-	2L
	G.001.047	Vedante vidro exterior EPDM	-	2L + 2H
	G.001.104	Vedante vidro interior EPDM	-	2L + 2H
	G.001.105	Vedante vidro interior EPDM	-	2L + 2H
	G.001.121	Vedante central A.100	L + 2H	-
	G.001.122	Canto vulcanizado A.100	2	-
	G.001.132	Vedante de batente EPDM	-	2L + 2H
	G.001.156	Vedante soleira	L	-
	G.004.091	Esquadro alinhamento	2	-
	G.004.389	Topo p/ pingadeira F.010.140 (Par)	-	1
	G.004.425	Fixador pingadeira	-	3
	G.004.773	Esquadro de alinhamento (interior)	-	8
	G.004.777	Esquadro de aperto (interior)	2	4
	G.004.778	Esquadro de aperto (exterior)	2	4
	G.004.781	União soleira/aró c/ 33,5mm	2	-
	G.015.026	Calço vidro A.165 folha	-	4

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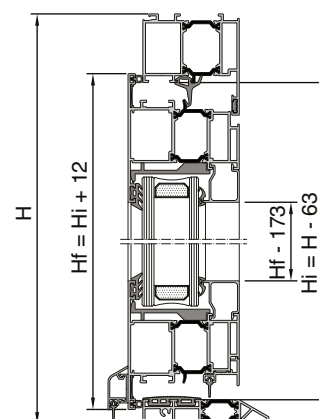
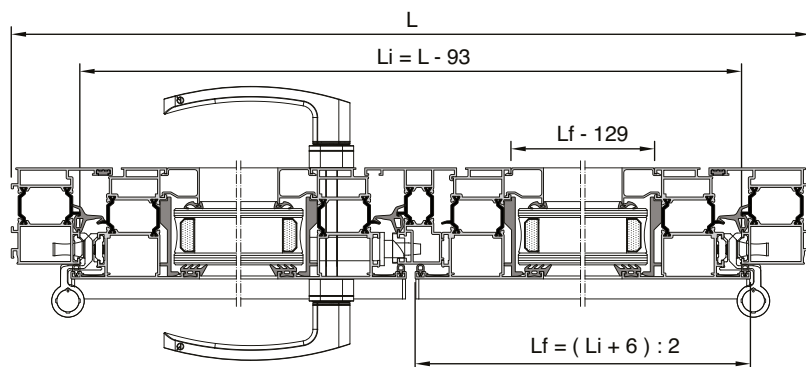
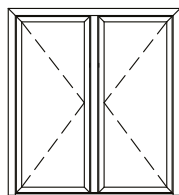
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PORTA DUAS FOLHAS - ABERTURA EXTERIOR C/ FECHADURA E SOLEIRA

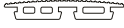
A.165



Perfil	Ref.	Quantidade	Dimensão
	A.165.040	1	L
		2	H - 16,5
	A.165.120	4	(Li + 6)/2
		4	Hi + 12
	A.165.360	1	L
	A.165.340	1	Hf - 74
	Bite Pág. 15 - 16	4	Lf - 129
		4	Hf - 173
	A.100.023	1	Lf - 51
	F.010.140	2	Lf - 72

PORTA DUAS FOLHAS - ABERTURA EXTERIOR C/ FECHADURA E SOLEIRA

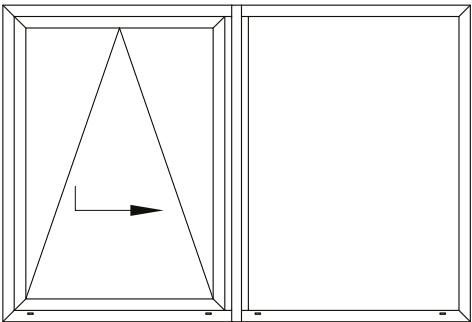
A.165

Acessório	Ref.	Designação	Quantidade	
			Aro	Folha(s)
	G.001.032	Vedante p/ pingadeira EPDM	-	2L
	G.001.047	Vedante vidro exterior EPDM	-	2L + 4H
	G.001.104	Vedante vidro interior EPDM	-	2L + 4H
	G.001.105	Vedante vidro interior EPDM	-	2L + 4H
	G.001.121	Vedante central A.100	L + 2H	H
	G.001.122	Canto vulcanizado A.100	2	-
	G.001.124	Topo p/ perfil central A.165	-	1
	G.001.132	Vedante de batente EPDM	-	2L + 4H
	G.001.156	Vedante soleira	L	-
	G.004.091	Esquadro de Alinhamento	2	-
	G.004.389	Topo p/ pingadeira F.010.140 (Par)	-	2
	G.004.425	Fixador pingadeira	-	6
	G.004.773	Esquadro de alinhamento (interior)	-	16
	G.004.777	Esquadro de aperto (interior)	2	8
	G.004.778	Esquadro de aperto (exterior)	2	8
	G.004.781	União soleira/aro c/ 33,5mm	2	-
	G.015.026	Calço vidro A.165 folha	-	4

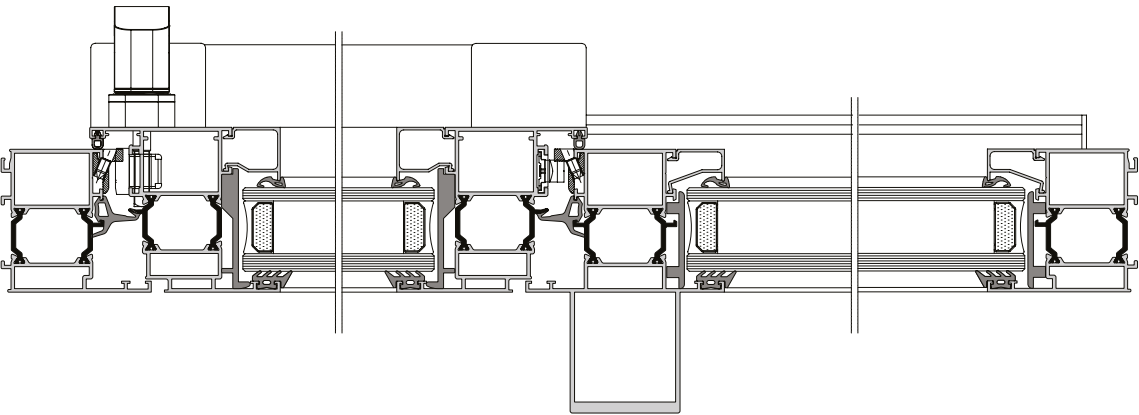
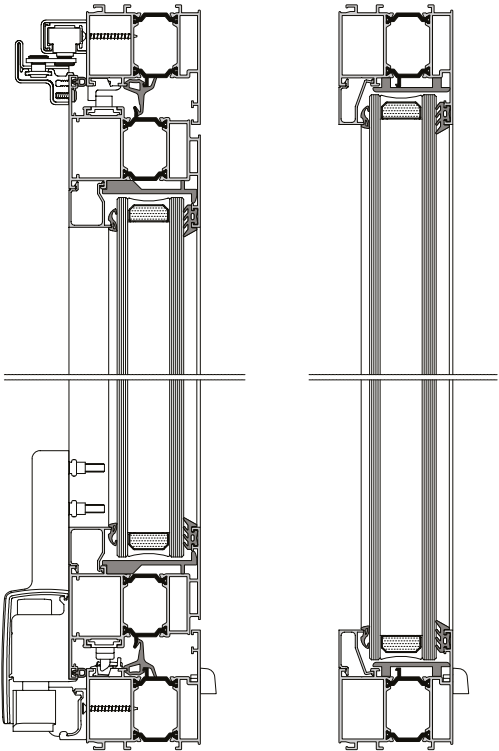
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**JANELA OSCILOPARALELA
COM MICRO VENTILAÇÃO**

A.165



vista exterior



Osciloparalela Semi-Automática
Micro Ventilação

760 - 1680mm
930 - 2380mm
160 kg

Largura folha
Altura folha
Peso máximo folha

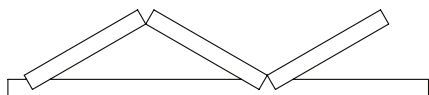
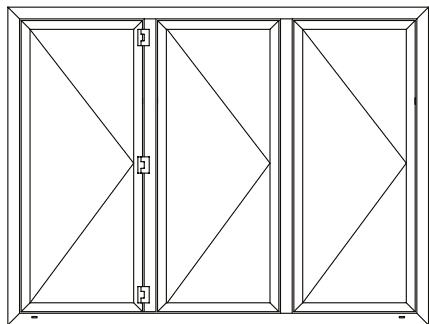


Osciloparalela Automática
Micro Ventilação

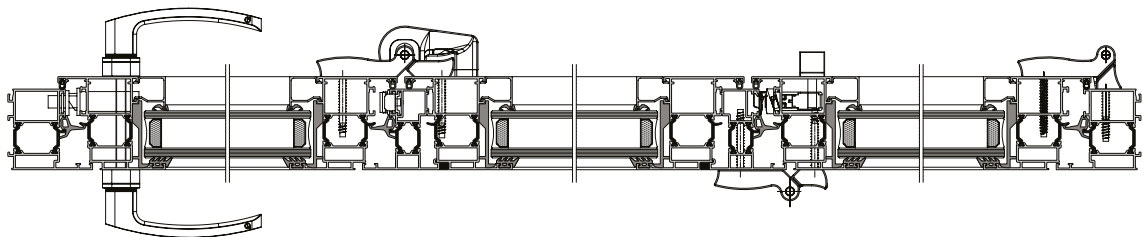
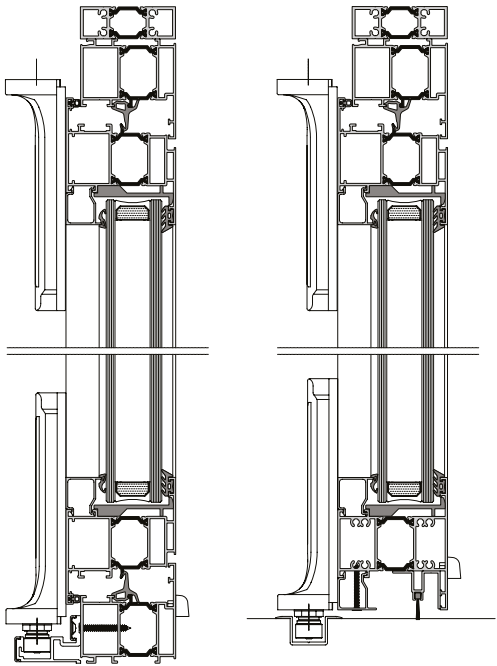
760 - 1680mm
930 - 2700mm
160 kg

1210 - 2000mm
930 - 2700mm
200 kg

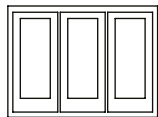
Para mais informações consultar **Anexo A.02**



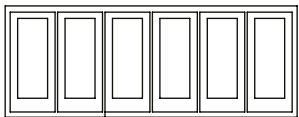
Largura folha independente	480 - 1230mm
Largura folha desdobrável	480 - 930mm
Altura folha	630 - 2830mm
Peso máximo folha	80kg
Comprimento máximo calha	6m



330 | 321

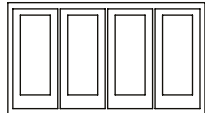


651 | 633

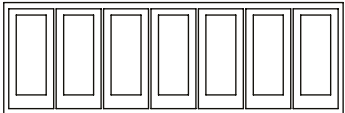


Folhas c/ abertura
lado esquerdo

431



770 | 761 | 752 | 743

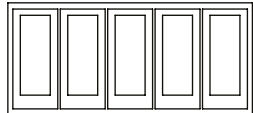


Nº total de folhas

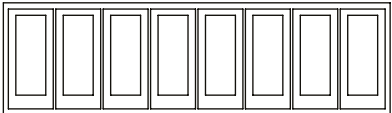
330

Folhas c/ abertura
lado direito

550 | 541 | 532



871



Para mais informações consultar **Anexo A.03**

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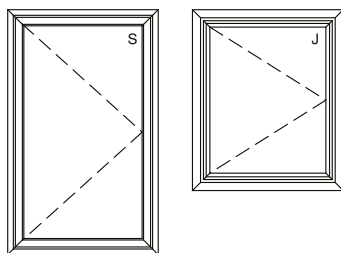
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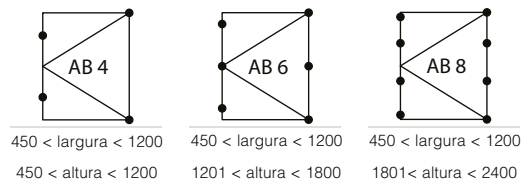
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JANELA UMA FOLHA BATENTE

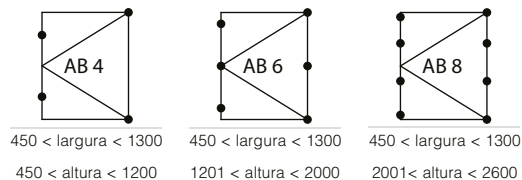
A.165



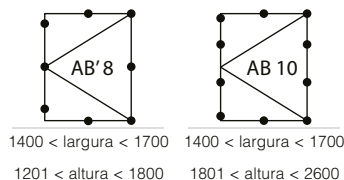
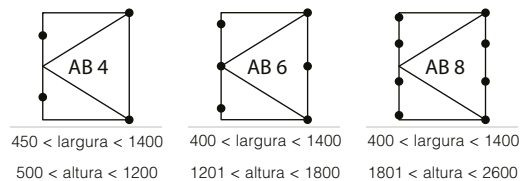
(Ferragem)



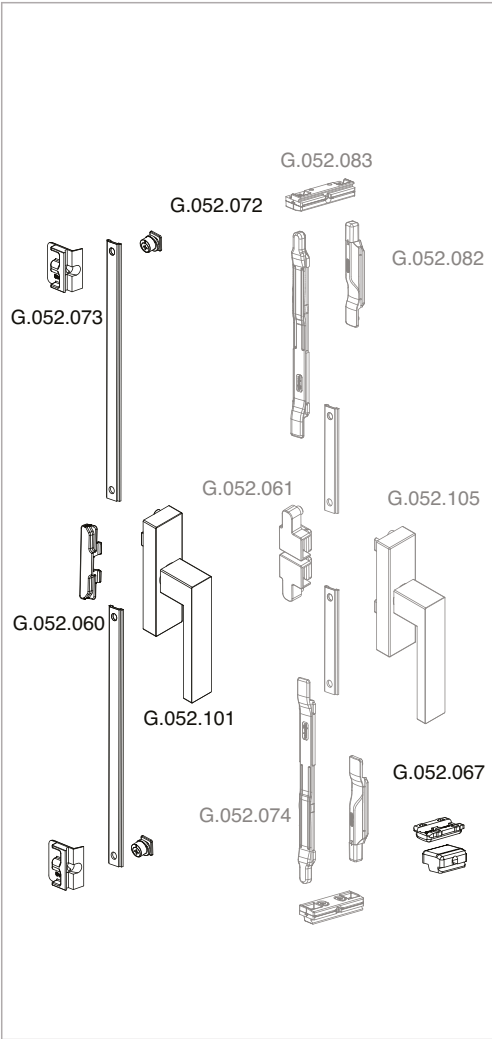
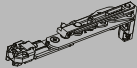
(Ferragem Oculta 120 kg)

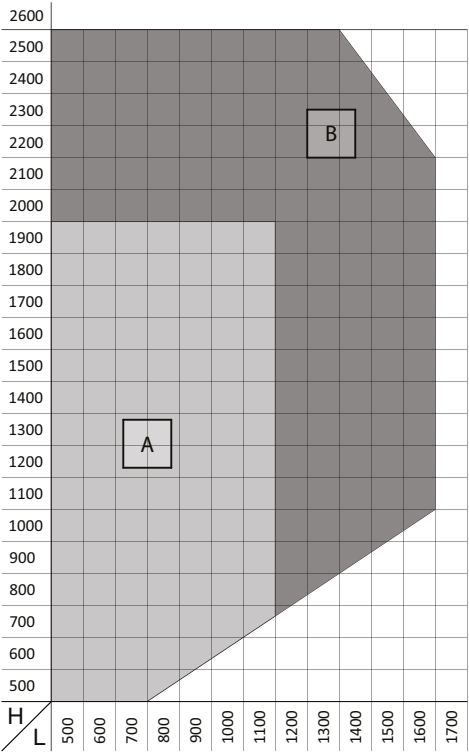


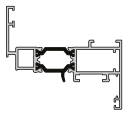
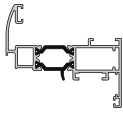
(Ferragem Oculta 180 kg)



referência		designação	AB 4	AB 6	AB 8	AB' 8	AB 10
urban	axis						
Ferragem Base	G.052.001	G.052.101 Cremone 1G					
	G.052.002	G.052.102 Cremone 1G c/ chave	1	1	1	1	1
	G.052.003	G.052.103 Cremone 1G segurança c/ punho					
	G.052.060	Transmissão cremone 1G	1	1	1	1	1
	G.052.067	Suporte folha	1	1	1	1	1
	G.052.072	Ponto de fecho folha	2	3	4	3	4
	G.052.073	Ponto de fecho aro	2	3	4	3	4
Ferragem Opcional	G.052.005	G.052.105 Cremone 2G					
	G.052.006	G.052.106 Cremone 2G c/ chave	1	1	1	-	-
	G.052.008	G.052.108 Cremone 2G segurança c/ punho					
	G.052.061	Transmissão cremone 2G	1	1	1	-	-
	G.052.067	Suporte folha	1	1	1	-	-
	G.052.072	Ponto de fecho folha	-	1	2	-	-
	G.052.073	Ponto de fecho aro	-	1	2	-	-
	G.052.074	Fecho ponteira folha	-	2	2	-	-
	G.052.082	Fecho ponteira nylon folha	2	-	-	-	-
Dobradiças	G.052.032	Dobradiça CE 60 kg	2	3	4	-	-
	G.052.039	Par de dobradiças 110 kg	1	1	1	-	-
	G.052.068	Limitador de flecha	-	1	2	-	-
Dobradiças Ocultas	G.052.033	ou Dobradiça Oculta 180 kg esq.	1	1	1	1	1
	G.052.034	ou Dobradiça Oculta 180 kg dir.					
	G.052.062	Ângulo de reenvio sup c/ ponto fecho	-	-	-	2	2
	G.052.068	Limitador de flecha	-	1	2	-	-
	G.053.027	ou Dobradiça Oculta 120 kg esq.	1	1	1	1	1
	G.053.028	ou Dobradiça Oculta 120 kg dir.					

	G.052.032	G.052.039	G.053.028	G.052.034
				
	60 kg	110 kg	120 kg	180 kg
				



	A.165.020 Perfil grupo A < 90 kg
	A.165.300
	A.165.050 Perfil grupo B < 180 kg
	A.165.310

Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

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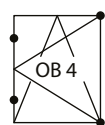
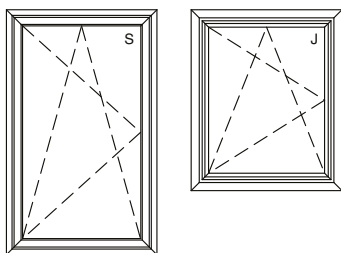
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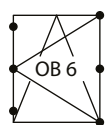
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JANELA OSCILOBATENTE

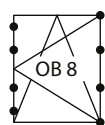
A.165



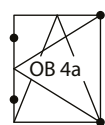
402 < largura < 700
500 < altura < 1200



402 < largura < 700
1201 < altura < 2000



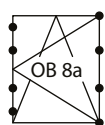
402 < largura < 700
2001 < altura < 2600



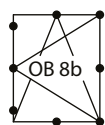
701 < largura < 1200
500 < altura < 1200



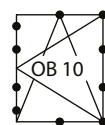
701 < largura < 1200
1201 < altura < 2000



701 < largura < 1200
2001 < altura < 2600



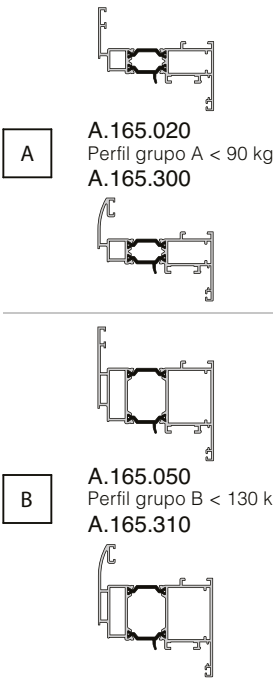
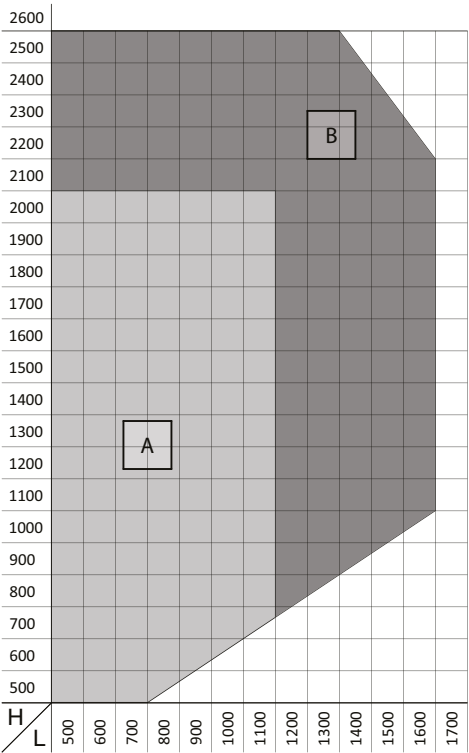
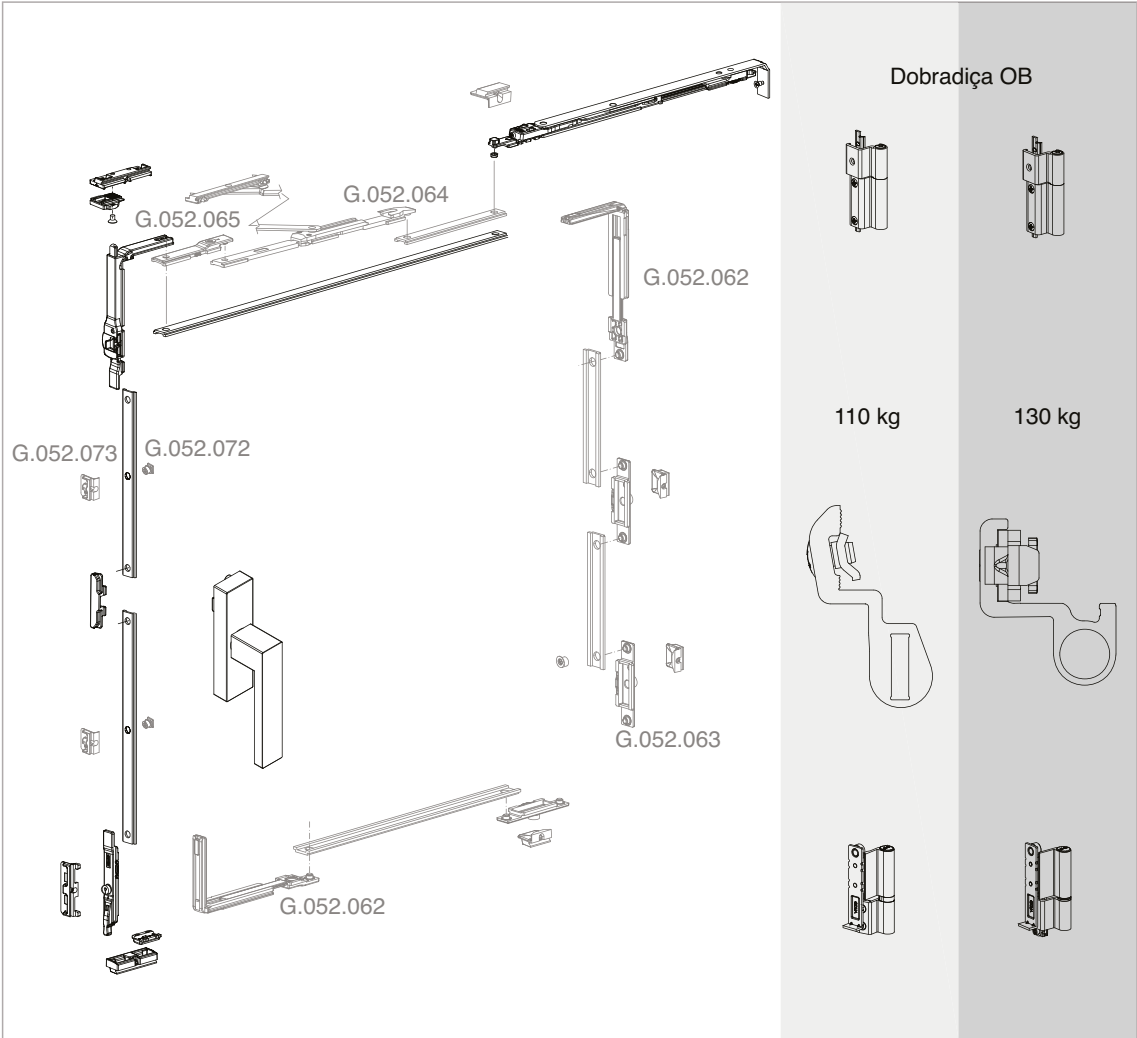
1201 < largura < 1700
1201 < altura < 2000



1201 < largura < 1700
2001 < altura < 2600

referência			designação										
urban	axis			OB 4	OB 4a	OB 6	OB 6a	OB 8b	OB 8	OB 8a	OB 10		
Ferragem Base	G.052.036	G.052.136	Kit OB 110kg 402 - 750mm	1	-	1	-	-	1	-	-		
	G.052.037	G.052.137	Kit OB 110kg 562 - 1200mm	-	1	-	1	-	-	1	-		
	G.052.038	G.052.138	Kit OB 110kg 816 - 1600mm	-	-	-	-	1	-	-	1		
	G.052.040	G.052.140	Kit OB 130kg 402 - 750mm	1	-	1	-	-	1	-	-		
	G.052.041	G.052.141	Kit OB 130kg 562 - 1200mm	-	1	-	1	-	-	1	-		
	G.052.042	G.052.142	Kit OB 130kg 816 - 1600mm	-	-	-	-	1	-	-	1		
Complementos	G.052.062		Ângulo de reenvio c/ p.fecho	-	-	1	1	2	1	1	2		
	G.052.063		Ponto de fecho intermédio	-	-	-	-	-	1	1	1		
	G.052.064		Compasso OB L > 1400 mm	-	-	-	-	1	-	-	1		
	G.052.065		Ligação p/ compasso sup.	-	-	-	-	1	-	-	1		
	G.052.072		Ponto de fecho folha	-	-	-	-	-	2	2	2		
	G.052.073		Ponto de fecho aro	-	-	1	1	2	2	2	3		

Para mais informações consultar **Anexo A.04**



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

Produto
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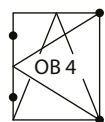
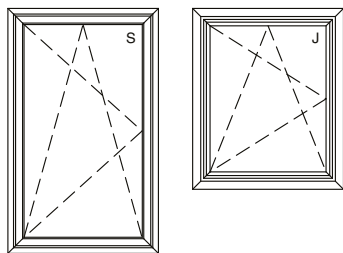
Instruções Fabrico
134

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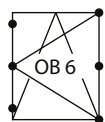
JANELA OSCILOBATENTE - MANOBRA LÓGICA

A.165



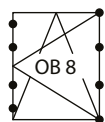
402 < largura < 700

500 < altura < 1200



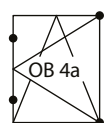
402 < largura < 700

1201 < altura < 2000



402 < largura < 700

2001 < altura < 2600



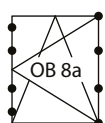
701 < largura < 1200

500 < altura < 1200



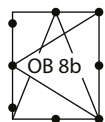
701 < largura < 1200

1201 < altura < 2000



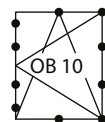
701 < largura < 1200

2001 < altura < 2600



1201 < largura < 1700

1201 < altura < 2000

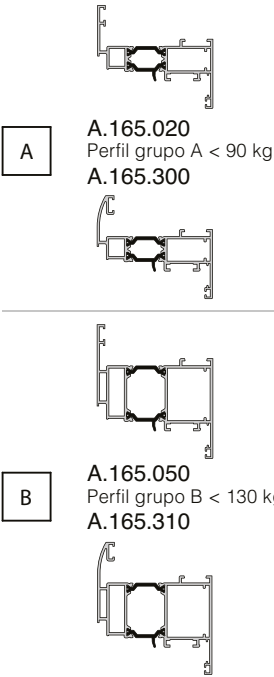
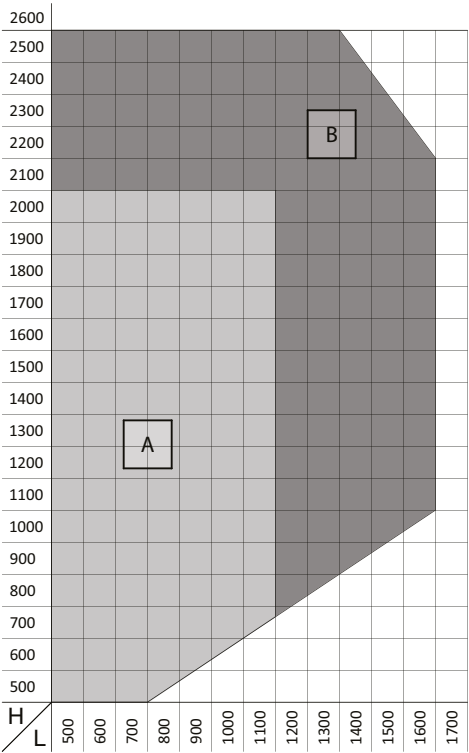
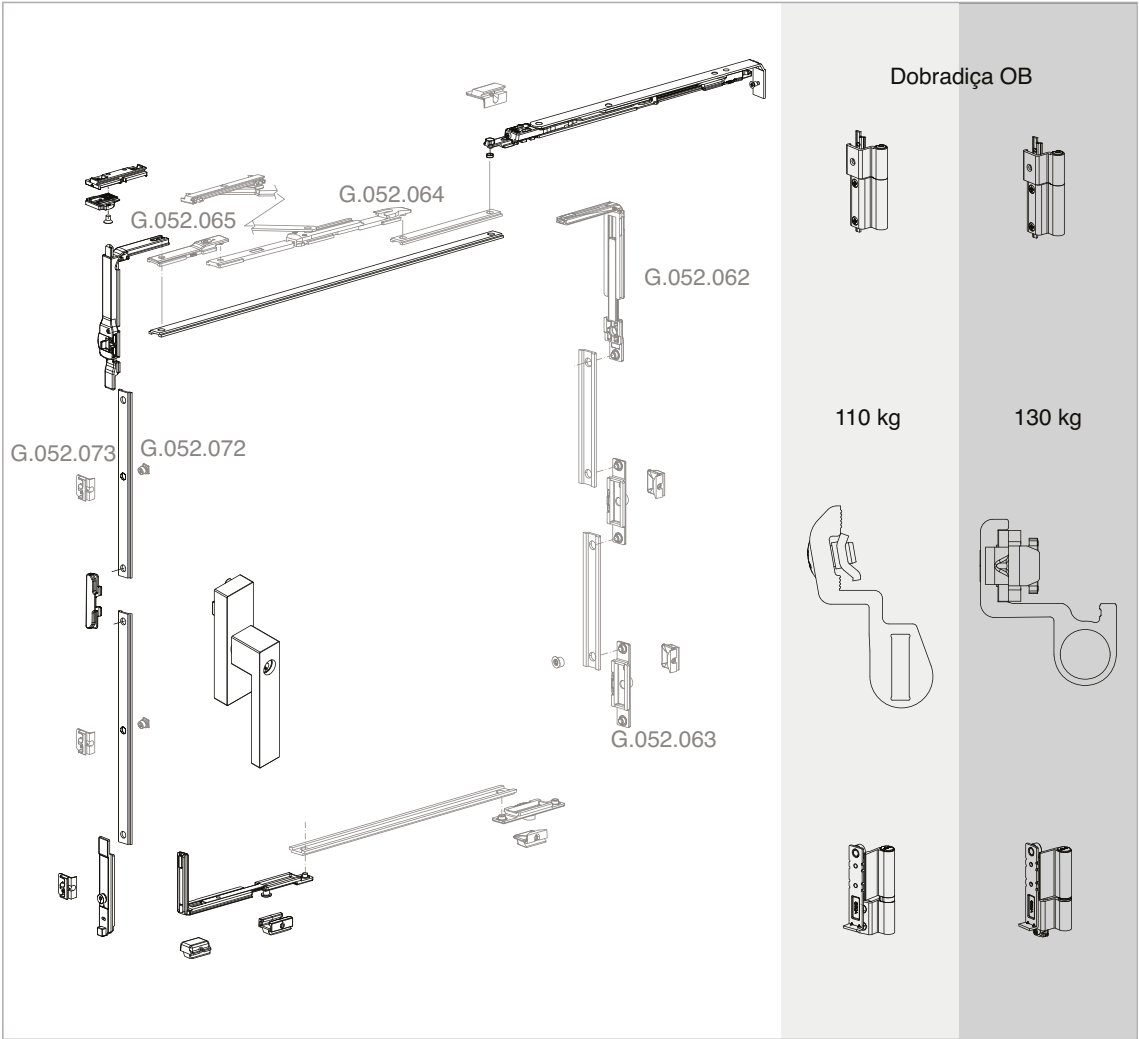


1201 < largura < 1700

2001 < altura < 2600

referência			designação		OB 4	OB 4a	OB 6	OB 6a	OB 8b	OB 8	OB 8a	OB 10
urban	axis											
Ferragem 110kg	G.052.044 G.052.144	Kit OB ML 402 - 750mm esq.	1	-	1	-	-	1	-	-		
	G.052.045 G.052.145	Kit OB ML 402 - 750mm dir.	1	-	1	-	-	1	-	-		
	G.052.046 G.052.146	Kit OB ML 562 - 1200mm esq.	-	1	-	1	-	-	1	-		
	G.052.047 G.052.147	Kit OB ML 562 - 1200mm dir.	-	1	-	1	-	-	1	-		
	G.052.048 G.052.148	Kit OB ML 816 - 1600mm esq.	-	-	-	-	1	-	-	1		
	G.052.049 G.052.149	Kit OB ML 816 - 1600mm dir.	-	-	-	-	1	-	-	1		
Ferragem 130kg	G.052.050 G.052.150	Kit OB ML 402 - 750mm esq.	1	-	1	-	-	1	-	-		
	G.052.051 G.052.151	Kit OB ML 402 - 750mm dir.	1	-	1	-	-	1	-	-		
	G.052.052 G.052.152	Kit OB ML 562 - 1200mm esq.	-	1	-	1	-	-	1	-		
	G.052.053 G.052.153	Kit OB ML 562 - 1200mm dir.	-	1	-	1	-	-	1	-		
	G.052.054 G.052.154	Kit OB ML 816 - 1600mm esq.	-	-	-	-	1	-	-	1		
	G.052.055 G.052.155	Kit OB ML 816 - 1600mm dir.	-	-	-	-	1	-	-	1		
Complementos	G.052.062	Ângulo de reenvio c/ p.fecho	-	-	1	1	2	1	1	2		
	G.052.063	Ponto de fecho intermédio	-	-	-	-	-	1	1	1		
	G.052.064	Compasso OB L > 1400 mm	-	-	-	-	1	-	-	1		
	G.052.065	Ligação p/ compasso sup.	-	-	-	-	1	-	-	1		
	G.052.072	Ponto de fecho folha	-	-	-	-	-	2	2	2		
	G.052.073	Ponto de fecho aro	-	-	1	1	2	2	2	3		

Para mais informações consultar **Anexo A.05**



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

Produto
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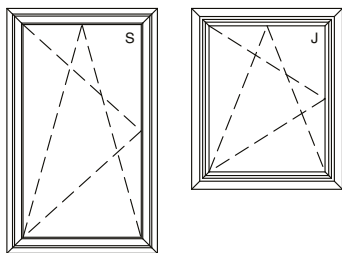
Instruções Fábri
134

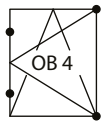
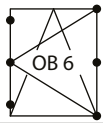
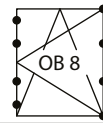
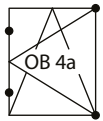
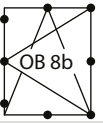
Instruções Montagem
142

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JANELA OSCILOBATENTE OCULTO 180KG

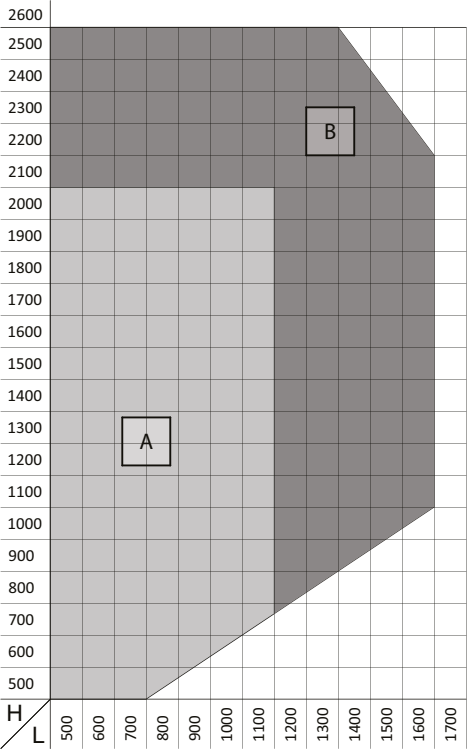
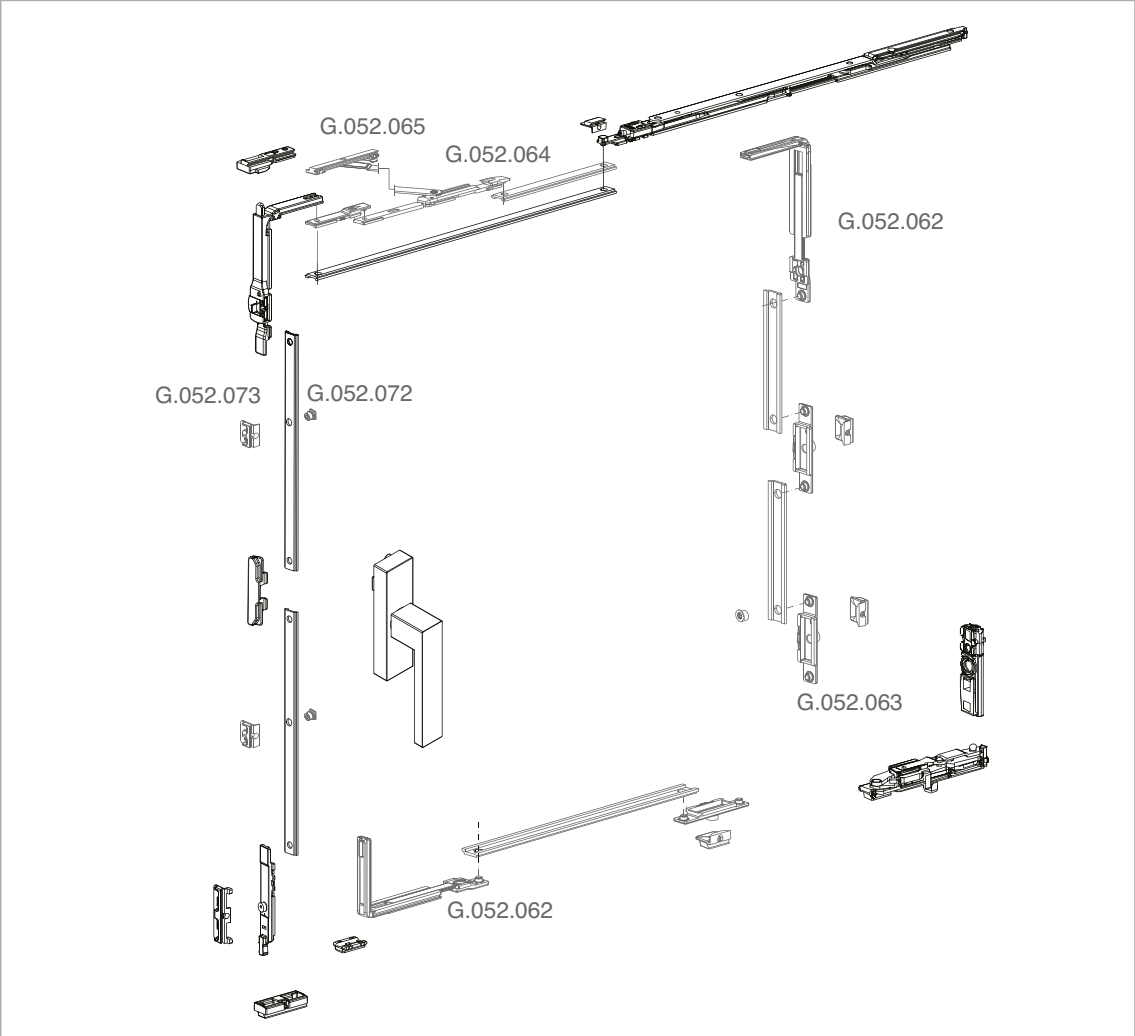
A.165



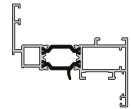
		
422 < largura < 700 500 < altura < 1200	422 < largura < 700 1201 < altura < 2000	422 < largura < 700 2001 < altura < 2600
		
701 < largura < 1200 500 < altura < 1200	701 < largura < 1200 1201 < altura < 2000	701 < largura < 1200 2001 < altura < 2600
		
1201 < largura < 1700 1201 < altura < 2000	1201 < largura < 1700 2001 < altura < 2600	

referência			designação									OB 4	OB 4a	OB 6	OB 6a	OB 8b	OB 8	OB 8a	OB 10
urban	axis																		
Ferragem Base	G.052.056	G.052.156	Kit OB OC 422 - 900mm esq.	1	-	1	-	-	1	-	-								
	G.052.057	G.052.157	Kit OB OC 422 - 900mm dir.	1	-	1	-	-	1	-	-								
	G.052.058	G.052.158	Kit OB OC 700 - 1700mm esq.	-	1	-	1	1	-	1	1								
	G.052.059	G.052.159	Kit OB OC 700 - 1700mm dir.	-	1	-	1	1	-	1	1								
Complementos	G.052.062		Ângulo de reenvio c/ p.fecho	-	-	1	1	2	1	1	2								
	G.052.063		Ponto de fecho intermédio	-	-	-	-	-	1	1	1								
	G.052.064		Compasso OB L > 1400 mm	-	-	-	-	1	-	-	1								
	G.052.065		Ligação p/ compasso sup.	-	-	-	-	1	-	-	1								
	G.052.072		Ponto de fecho folha	-	-	-	-	-	2	2	2								
	G.052.073		Ponto de fecho aro	-	-	1	1	2	2	2	3								

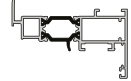
Para mais informações consultar **Anexo A.06**



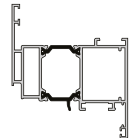
A



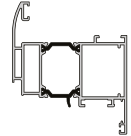
A.165.020
Perfil grupo A < 90 kg
A.165.300



B



A.165.050
Perfil grupo B < 180 kg
A.165.310



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

Produto
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Características Técnicas
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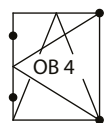
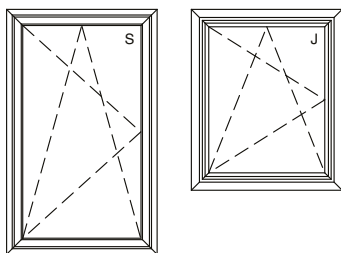
Instruções Fabrico
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142

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JANELA OSCILOBATENTE OCULTO 120KG

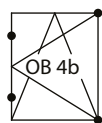
A.165



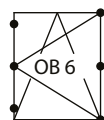
515 < largura < 655
500 < altura < 1400



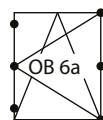
656 < largura < 950
500 < altura < 1400



950 < largura < 1300
500 < altura < 1400



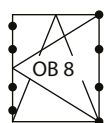
515 < largura < 655
1401 < altura < 2000



656 < largura < 950
1401 < altura < 2000



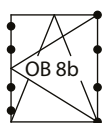
950 < largura < 1300
1401 < altura < 2000



515 < largura < 655
2001 < altura < 2600



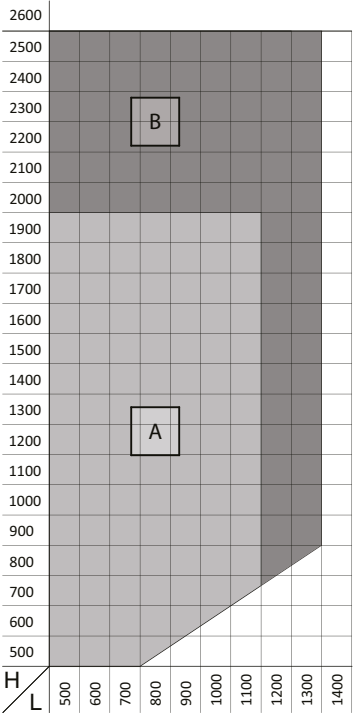
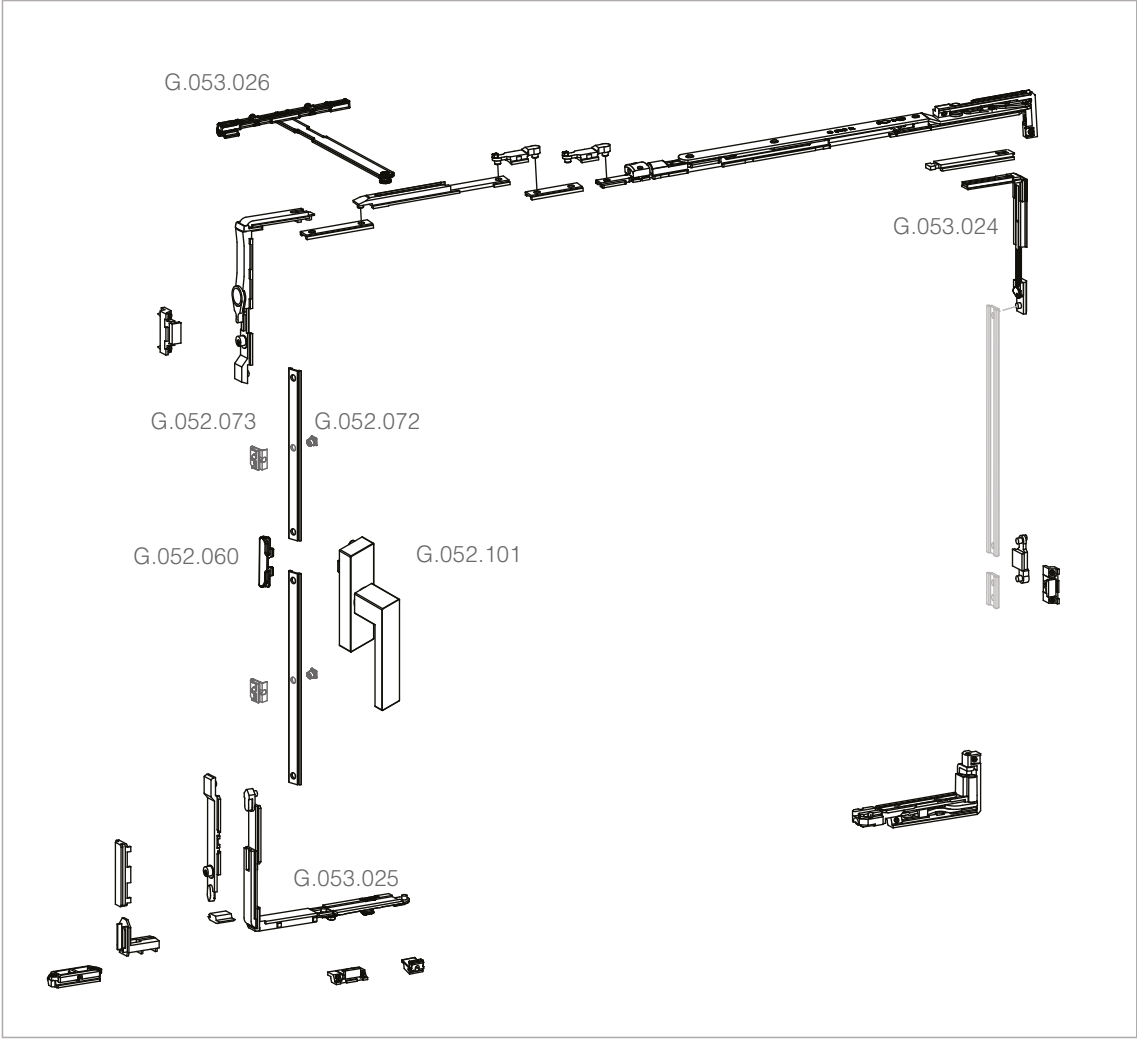
656 < largura < 950
2001 < altura < 2600



950 < largura < 1300
2001 < altura < 2600

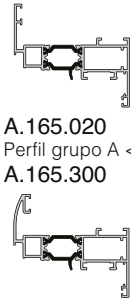
	referência		designação	OB 4	OB 4a	OB 4b	OB 6	OB 6a	OB 6b	OB 8	OB 8a	OB 8b
	urban	axis										
Ferragem Base	G.052.001 G.052.101	Cremone 1G		1	1	1	1	1	1	1	1	1
	G.053.020	Kit OB 515 - 655mm esq.		1	-	-	1	-	-	1	-	-
	G.053.021	Kit OB 515 - 655mm dir.		1	-	-	1	-	-	1	-	-
	G.053.022	Kit OB 655 - 1300mm esq.		-	1	1	-	1	1	-	1	1
	G.053.023	Kit OB 655 - 1300mm dir.		-	1	1	-	1	1	-	1	1
Ferragem Opcional	G.052.060	Transmissão cremone 1G		1	1	1	1	1	1	1	1	1
	G.052.072	Ponto de fecho folha		-	-	-	1	1	1	2	2	2
	G.052.073	Ponto de fecho aro		-	-	-	1	1	1	2	2	2
	G.053.024	Ponto fecho ad. vertical		-	-	-	1	1	1	1	1	1
	G.053.025	Ponto fecho ad. horizontal		-	-	1	-	-	1	-	-	1
	G.053.026	Compasso sup. L>950mm		-	-	1	-	-	1	-	-	1

Para mais informações consultar **Anexo A.07**



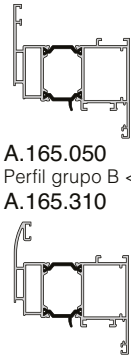
A

A.165.020
Perfil grupo A < 90 kg
A.165.300



B

A.165.050
Perfil grupo B < 120 kg
A.165.310



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

Produto
6

Características Técnicas
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Perfis
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Seções
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Tipologias Construtivas
66

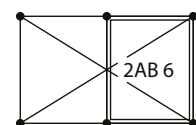
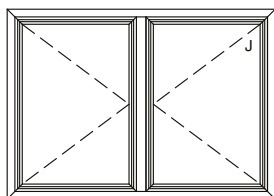
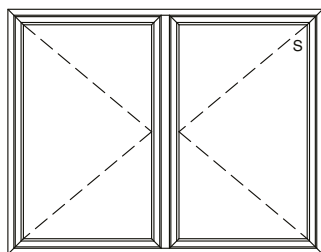
Instruções Fábri
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142

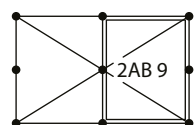
Acessórios
148

JANELA DUAS FOLHAS BATENTE

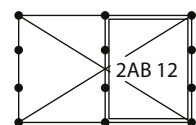
A.165



450 < largura < 1200
450 < altura < 1200

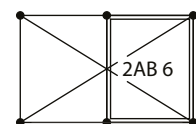


450 < largura < 1200
1201 < altura < 2000

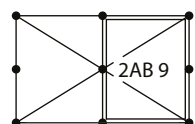


450 < largura < 1200
2001 < altura < 2600

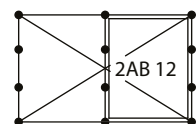
(Ferragem)



450 < largura < 1300
450 < altura < 1200

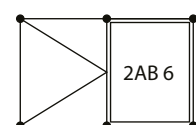


450 < largura < 1300
1201 < altura < 2000

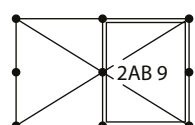


450 < largura < 1300
2001 < altura < 2600

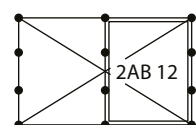
(Ferragem Oculta 120 kg)



450 < largura < 1400
500 < altura < 1200



450 < largura < 1400
1201 < altura < 2000



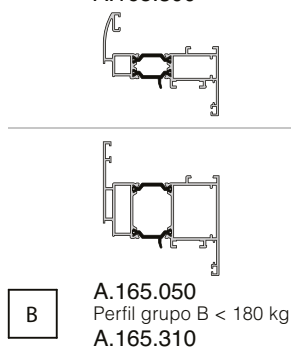
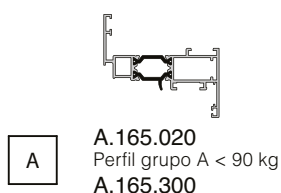
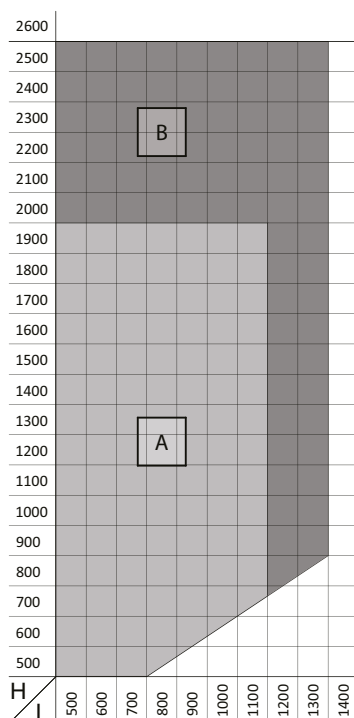
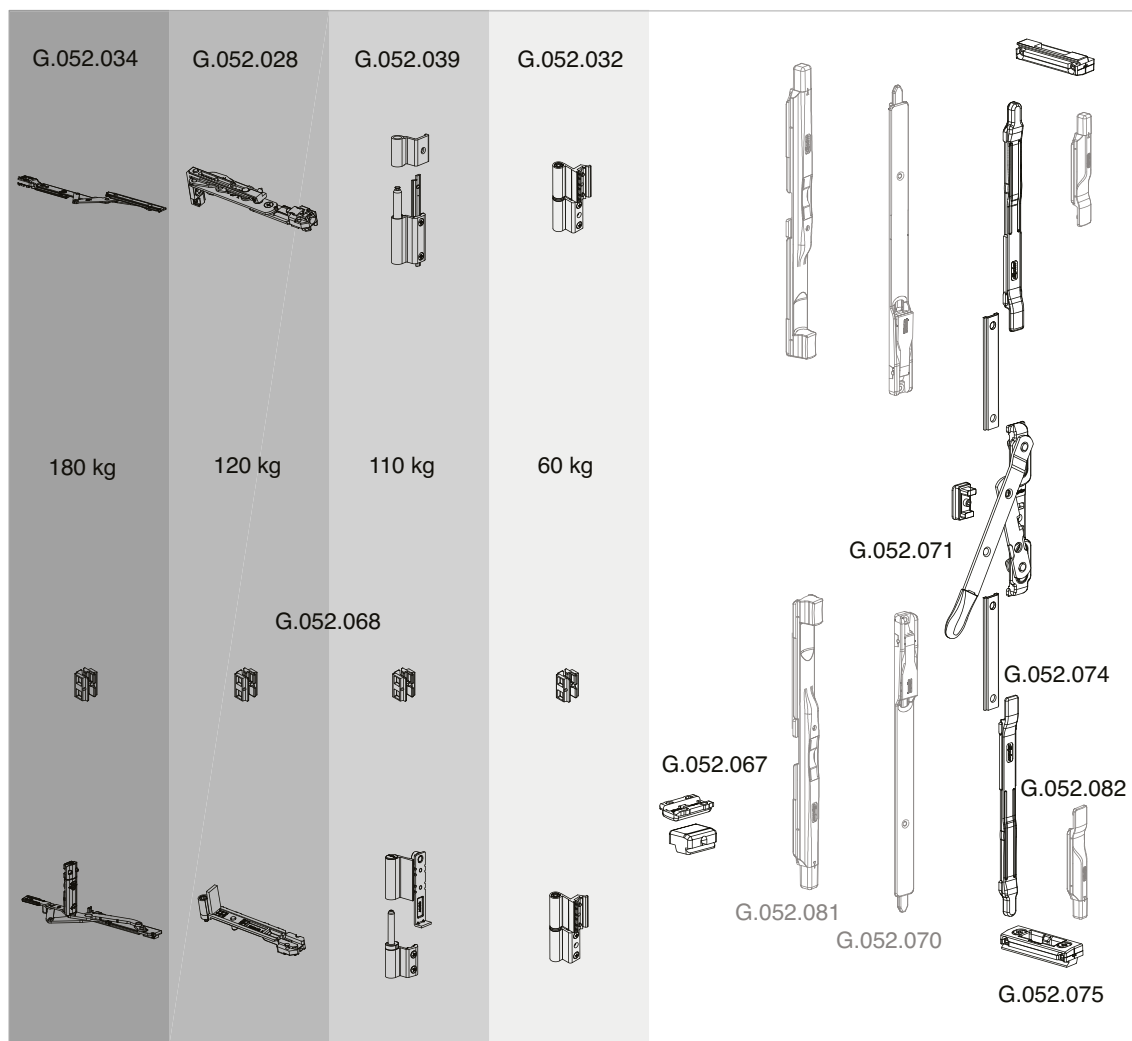
450 < largura < 1400
2001 < altura < 2600

(Ferragem Oculta 180 kg)

referência		designação	2 AB 6	2 AB 9	2 AB 12
urban	axis				
Ferragem Folha Ativa	G.052.005	G.052.105	1	1	1
	G.052.006	G.052.106			
	G.052.007	G.052.107			
	G.052.008	G.052.108			
	G.052.009	G.052.109			
	G.052.061	Transmissão cremone 2G	1	1	1
	G.052.067	Suporte folha	1	1	1
	G.052.072	Ponto de fecho folha	-	1	2
	G.052.073	Ponto de fecho aro	-	1	2
	G.052.074	ou	2	2	2
Ferragem Folha Passiva	G.052.082	ou	2	2	2
	G.052.075	Engate duplo aro	2	2	2
	G.052.070	ou	2	2	2
	G.052.071	ou	1	1	1
	G.052.081	ou	2	2	2
	G.052.067	Suporte folha	1	1	1
	G.052.074	ou	-	2	2
Dobradiças	G.052.082	ou	2	-	-
	G.052.032	ou	4	6	8
	G.052.039	Par de dobradiças 110 kg	2	2	2
Dobradiças Ocultas	G.052.068	Limitador de flecha	-	2	4
	G.052.033	Dobradiça Oculta 180 kg esq.	1	1	1
	G.052.034	Dobradiça Oculta 180 kg dir.	1	1	1
	G.052.068	Limitador de flecha	-	2	4
	G.053.027	Dobradiça Oculta 120 kg esq.	1	1	1
	G.053.028	Dobradiça Oculta 120 kg dir.	1	1	1

JANELA DUAS FOLHAS BATENTE FOLHA PASSIVA

A.165

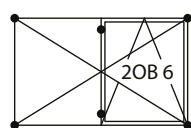
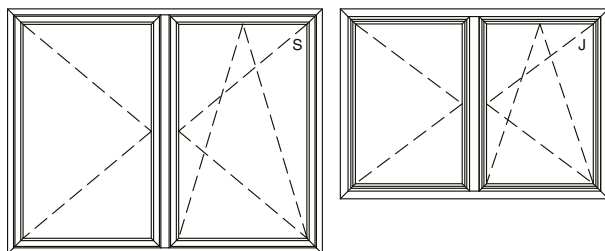


Cálculo

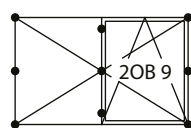
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo

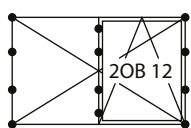
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$



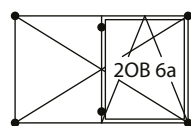
402 < largura < 700
500 < altura < 1200



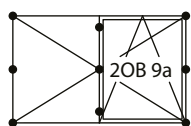
402 < largura < 700
1201 < altura < 2000



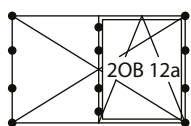
402 < largura < 700
2001 < altura < 2600



701 < largura < 1200
500 < altura < 1200



701 < largura < 1200
1201 < altura < 2000



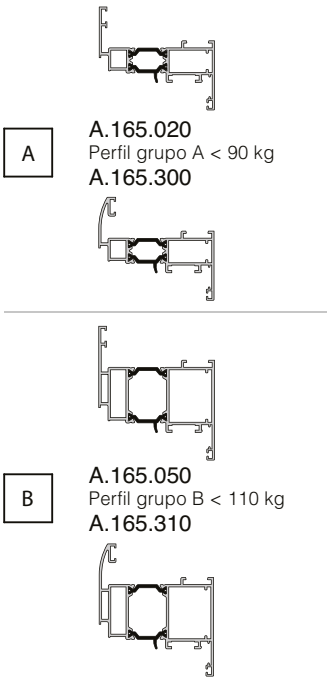
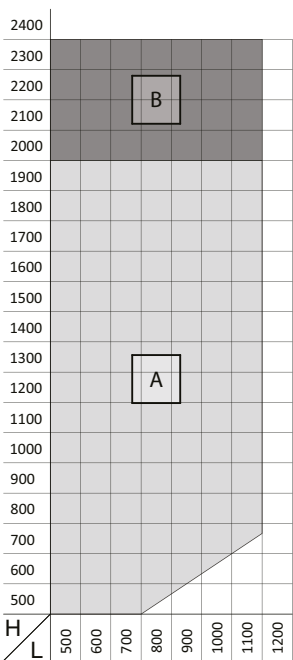
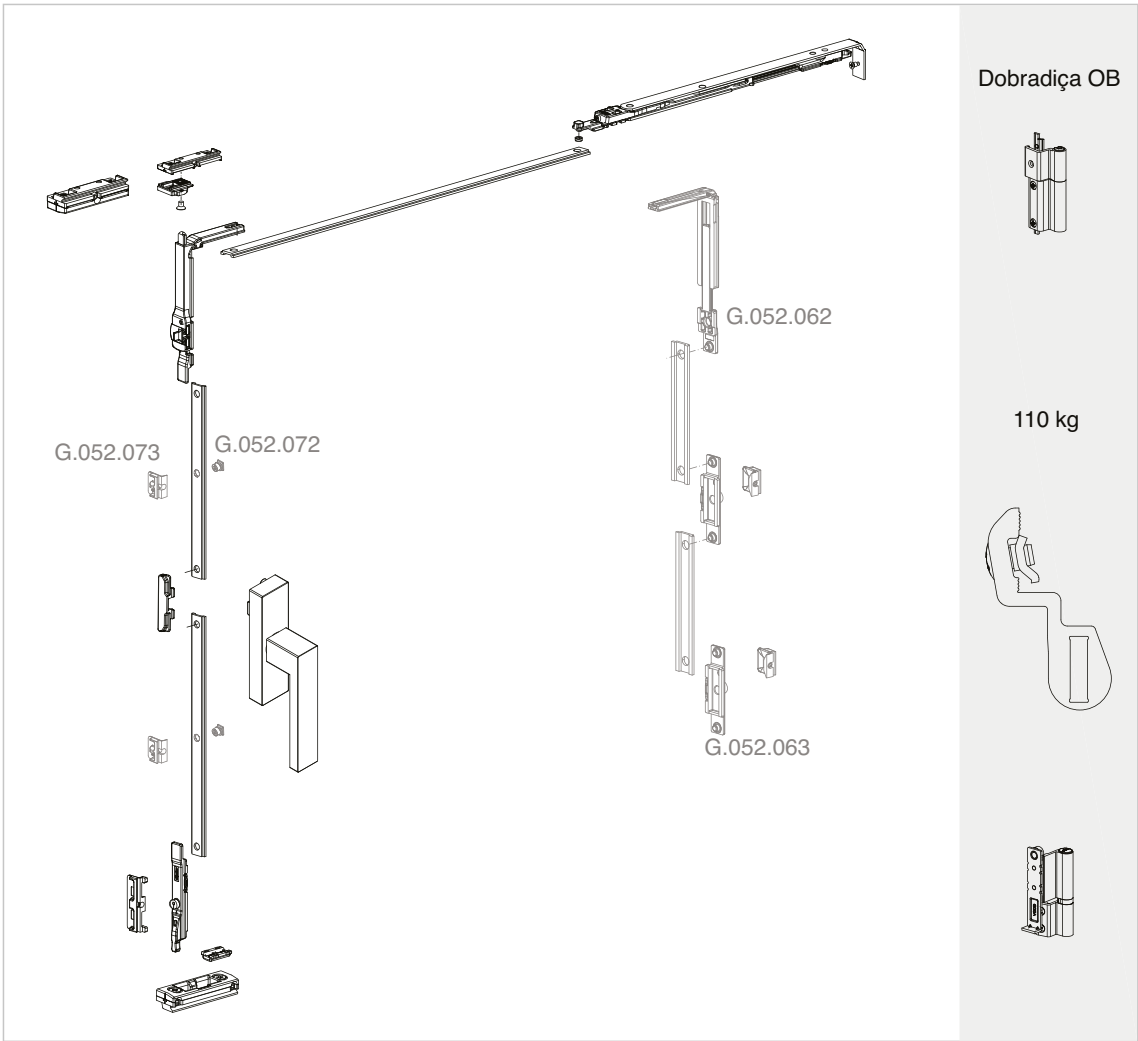
701 < largura < 1200
2001 < altura < 2600

	referência		designação	2OB 6	2OB 6a	2OB 9	2OB 9a	2OB 12	2OB 12a
	urban	axis							
KIT	G.052.036 G.052.136		Kit OB 110 kg 402-750 mm	1	-	1	-	1	-
	G.052.037 G.052.137		Kit OB 110 kg 562-1200 mm	-	1	-	1	-	1
Complementos	G.052.062		Ângulo reenvio c/ ponto de fecho	-	-	1	1	1	1
	G.052.067		Suporte folha	1	1	1	1	1	1
	G.052.072		Ponto de fecho folha	-	-	-	-	2	2
	G.052.073		Ponto de fecho aro	-	-	1	1	2	2
	G.052.063		Ponto de fecho intermédio	-	-	-	-	1	1
Ferragem 2ª Folha	G.052.039		Par de dobradiças 110 kg	1	1	1	1	1	1
	G.052.068		Limitador de flecha	-	1	1	1	2	2
	G.052.075		Engate duplo aro	1	1	1	1	1	1
	G.052.071		Fecho bidirecional	1	1	1	1	1	1
	G.052.074		Fecho ponteira folha	2	2	2	2	2	2
	G.052.083		Engate simples aro	1	1	1	1	1	1

Para mais informações consultar **Anexo A.04**

JANELA OSCIOBATENTE MAIS BATENTE FOLHA ATIVA

A.165



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

JANELA OSCIOBATENTE MAIS BATENTE
FOLHA PASSIVA

A.165

G.052.039



110 kg

G.052.068





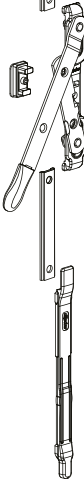
G.052.083



G.052.071



G.052.074



G.052.075



G.052.067



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2400

2300

2200

2100

2000

1900

1800

1700

1600

1500

1400

1300

1200

1100

1000

900

800

700

600

500

H

L

500

600

700

800

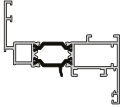
900

1000

1100

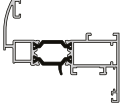
1200

A

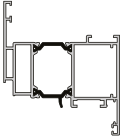


A.165.020
Perfil grupo A < 90 kg

A.165.300

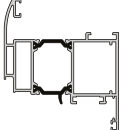


B



A.165.050
Perfil grupo B < 110 kg

A.165.310



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

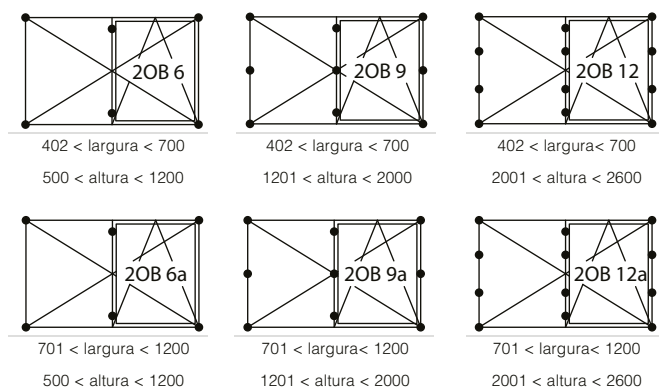
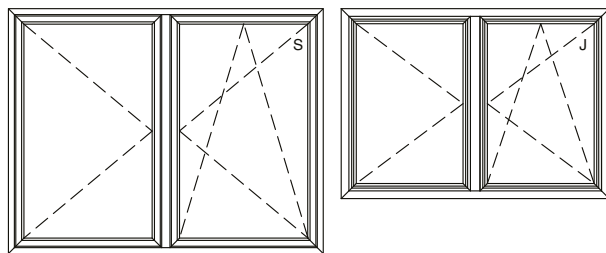
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JANELA OSCLOBATENTE MAIS BATENTE MANOBRA LÓGICA

A.165

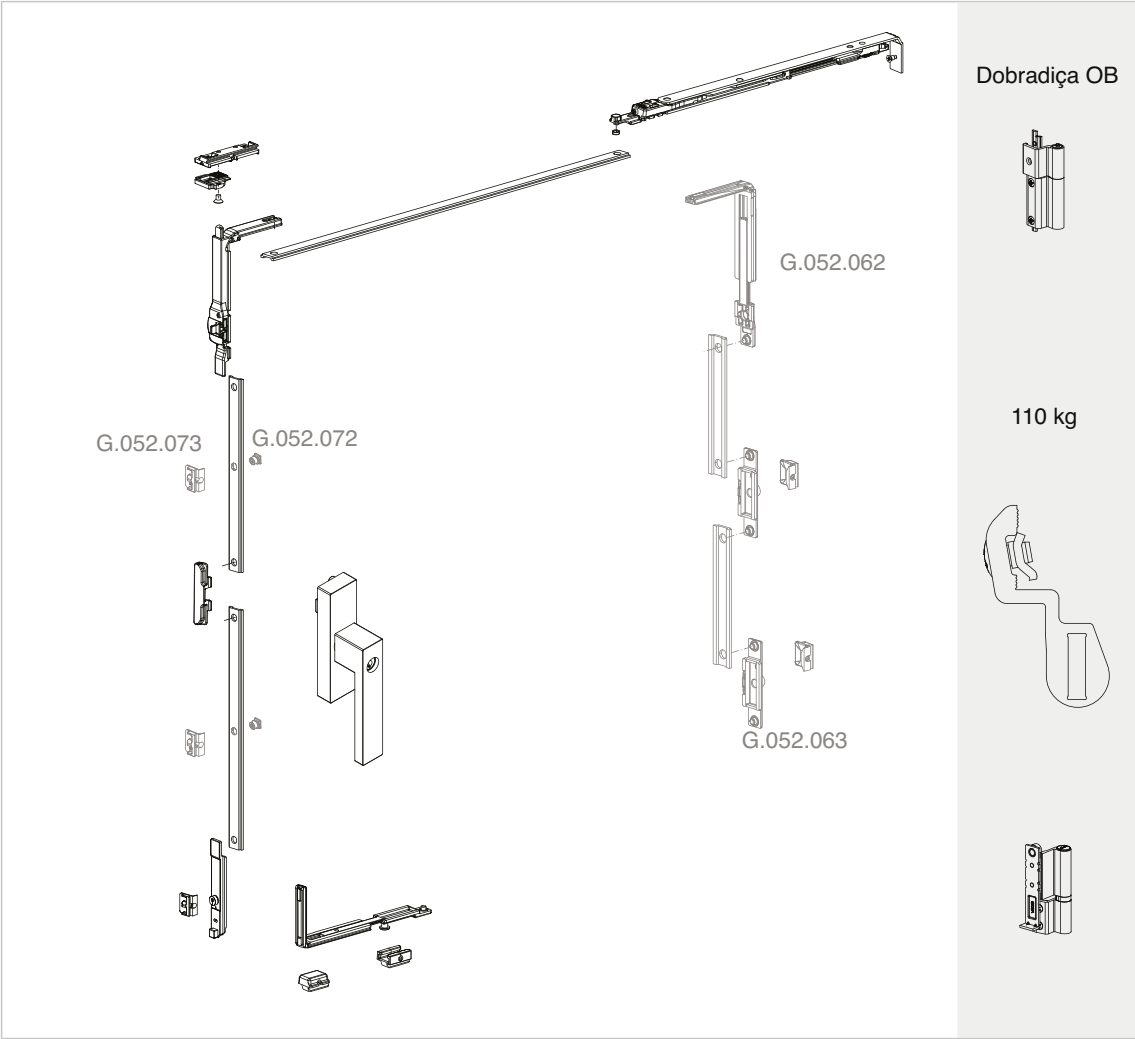


referência		designação						
urban	axis		2OB 6	2OB 6a	2OB 9	2OB 9a	2OB 12	2OB 12a
KIT	G.052.044 G.052.144	Kit OB 402 - 750mm esq.	1	-	1	-	1	-
	G.052.045 G.052.145	Kit OB 402 - 750mm dir.	1	-	1	-	1	-
	G.052.046 G.052.146	Kit OB 562 - 1200mm esq.	-	1	-	1	-	1
	G.052.047 G.052.147	Kit OB 562 - 1200mm dir.	-	1	-	1	-	1
Complementos	G.052.062	Ângulo de reenvio c/ ponto fecho sup.	-	-	1	1	1	1
	G.052.063	Ponto de fecho intermédio	-	-	-	-	1	1
	G.052.067	Suporte folha	1	1	1	1	1	1
	G.052.072	Ponto fecho folha	-	-	-	-	2	2
	G.052.073	Ponto fecho aro	-	-	1	1	2	2
Ferragem 2ª Folha	G.052.039	Par de dobradiças 110 kg	1	1	1	1	1	1
	G.052.068	Limitador de flecha	-	1	1	1	2	2
	G.052.075	Engate duplo aro	1	1	1	1	1	1
	G.052.071	Fecho bidirecional	1	1	1	1	1	1
	G.052.074	Fecho ponteira folha	2	2	2	2	2	2
	G.052.083	Engate simples aro	1	1	1	1	1	1

Para mais informações consultar **Anexo A.05**

JANELA OSCIOBATENTE MAIS BATENTE
MANOBRA LÓGICA - FOLHA ATIVA

A.165



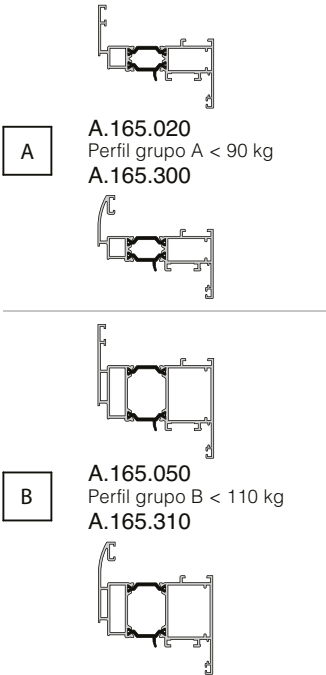
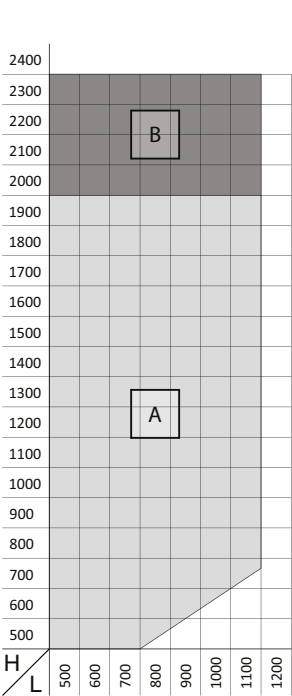
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Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

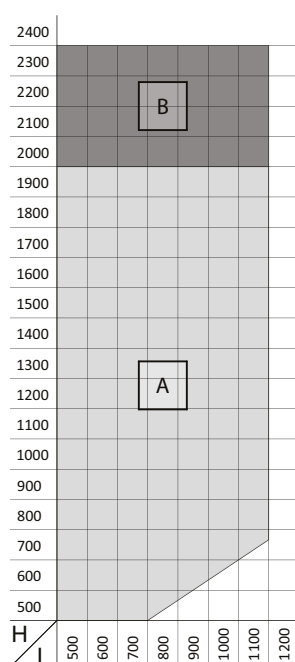
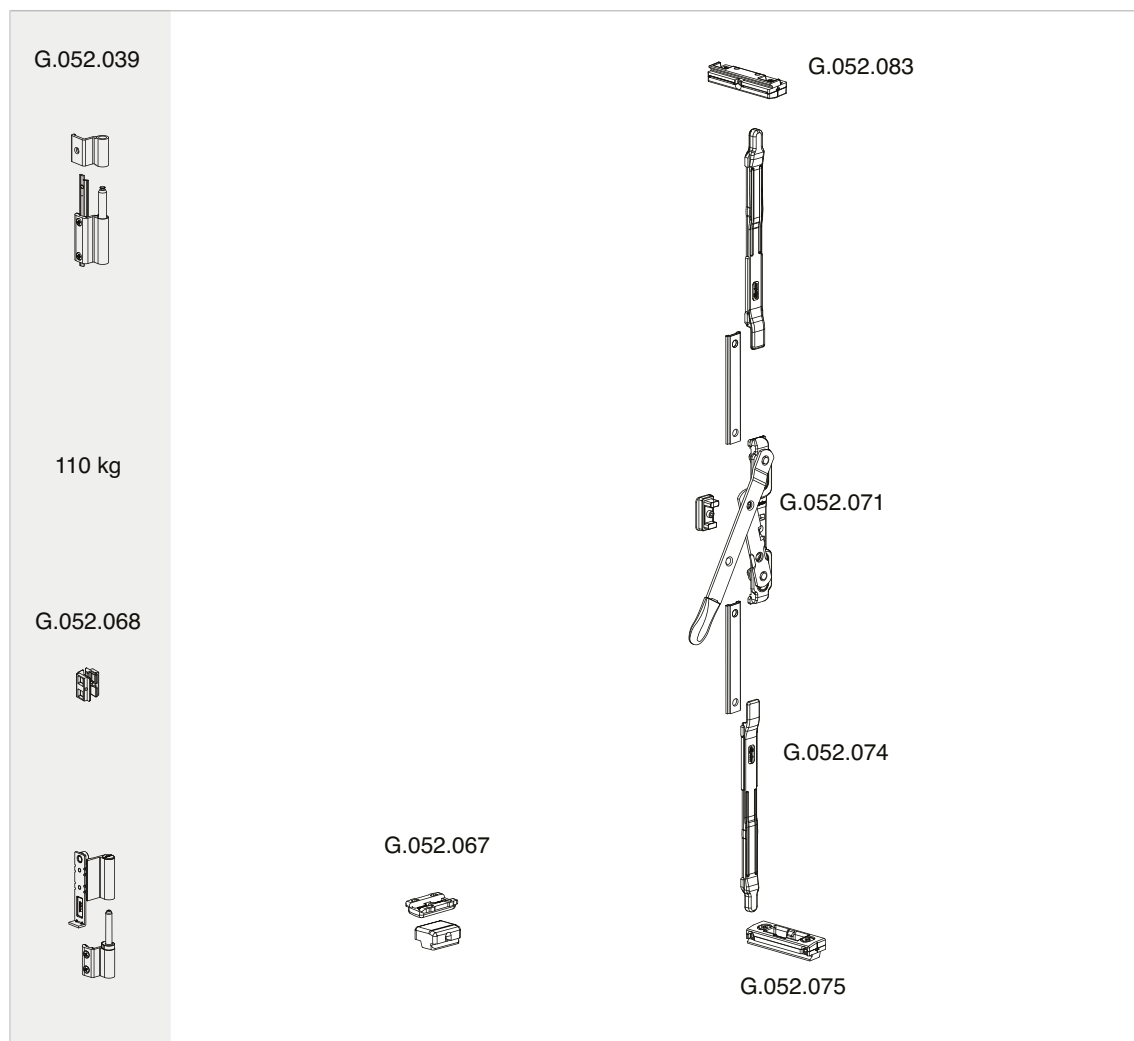
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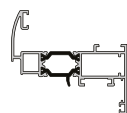
JANELA OSC/LOBATENTE MAIS BATENTE MANOBRA LÓGICA - FOLHA PASSIVA

A.165



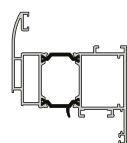
A

A.165.020
Perfil grupo A < 90 kg
A.165.300



B

A.165.050
Perfil grupo B < 110 kg
A.165.310



Cálculo

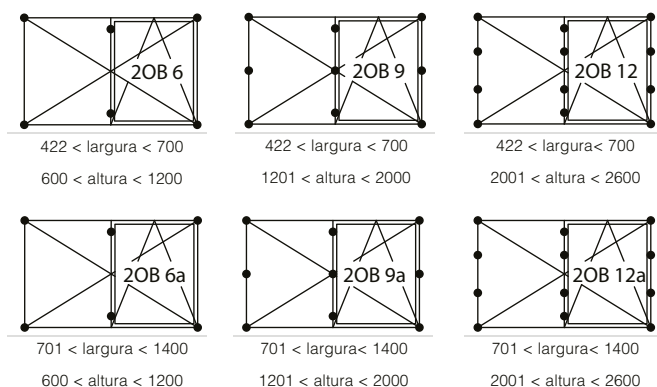
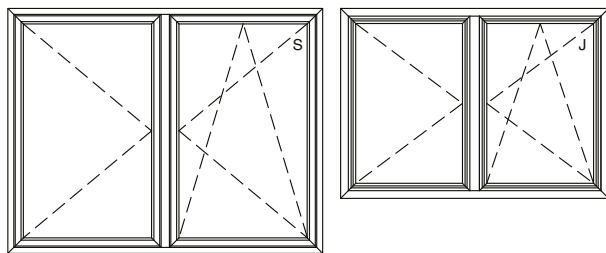
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo

A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

JANELA OSCIOBATENTE MAIS BATENTE DOBRADIÇA OCULTA 180KG

A.165

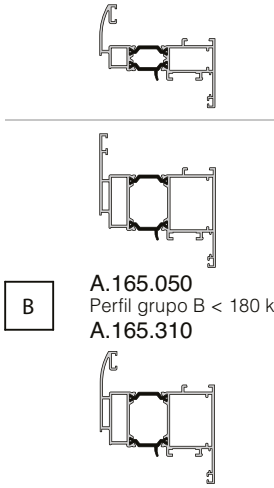
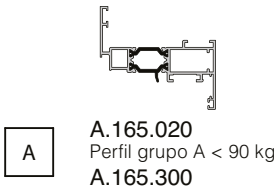
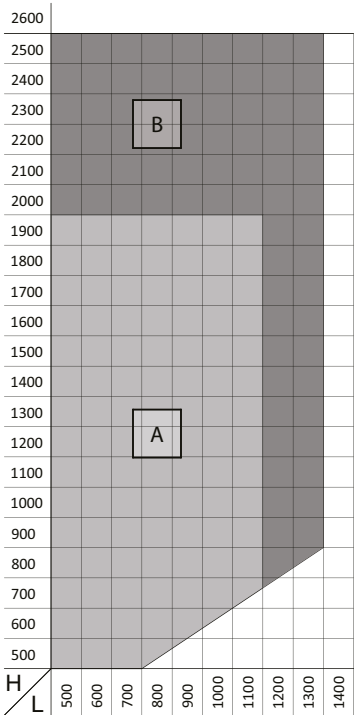
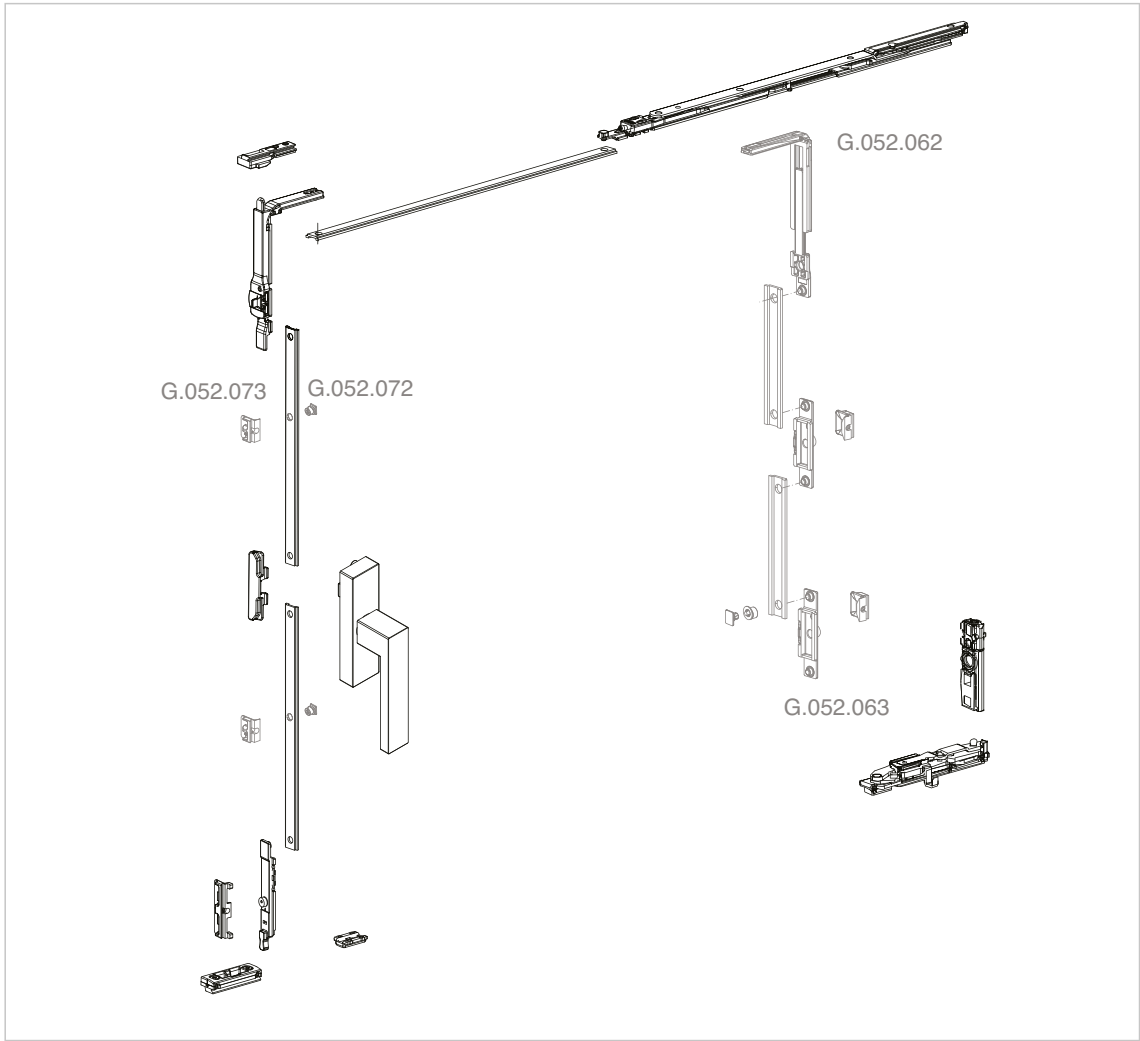


referência		designação						
urban	axis		2OB 6	2OB 6a	2OB 9	2OB 9a	2OB 12	2OB 12a
KIT	G.052.056 G.052.156	Kit OB 422 - 900mm esq.	1	-	1	-	1	-
	G.052.057 G.052.157	Kit OB 422 - 900mm dir.	1	-	1	-	1	-
	G.052.058 G.052.158	Kit OB 700 - 1700mm esq.	-	1	-	1	-	1
	G.052.059 G.052.159	Kit OB 700 - 1700mm dir.	-	1	-	1	-	1
Complementos	G.052.062	Ângulo de reenvio c/ ponto fecho sup.	-	-	1	1	1	1
	G.052.063	Ponto de fecho intermédio	-	-	-	-	1	1
	G.052.067	Suporte folha	1	1	1	1	1	1
	G.052.072	Ponto fecho folha	-	-	-	-	2	2
	G.052.073	Ponto fecho aro	-	-	1	1	2	2
Ferragem 2ª Folha	G.052.033	Dobradiça oculta 180 kg esquerda	1	1	1	1	1	1
	G.052.034	Dobradiça oculta 180 kg direita	1	1	1	1	1	1
	G.052.068	Limitador de flecha	-	1	1	1	2	2
	G.052.075	Engate duplo aro	1	1	1	1	1	1
	G.052.071	Fecho bidirecional	1	1	1	1	1	1
	G.052.074	Fecho ponteira folha	2	2	2	2	2	2
	G.052.083	Engate simples aro	1	1	1	1	1	1

Para mais informações consultar **Anexo A.06**Produto
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JANELA OSCIOBATENTE MAIS BATENTE DOBRADIÇA OCULTA 180KG - FOLHA ATIVA

A.165

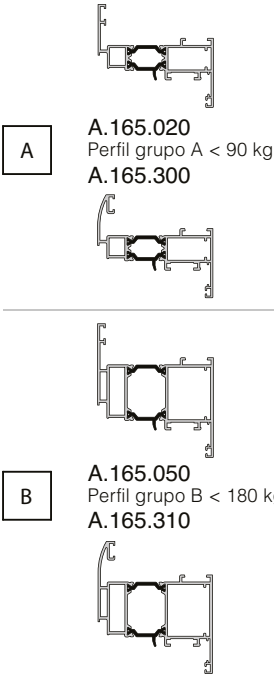
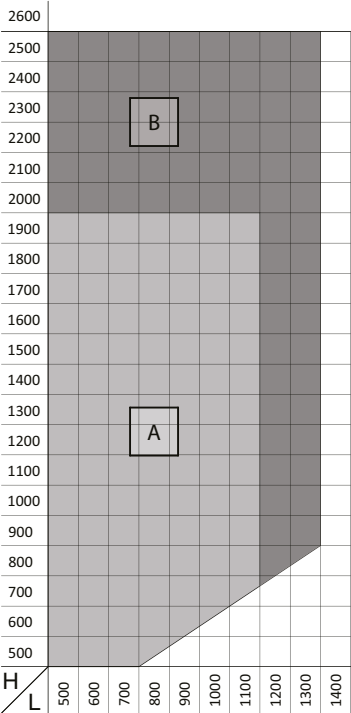
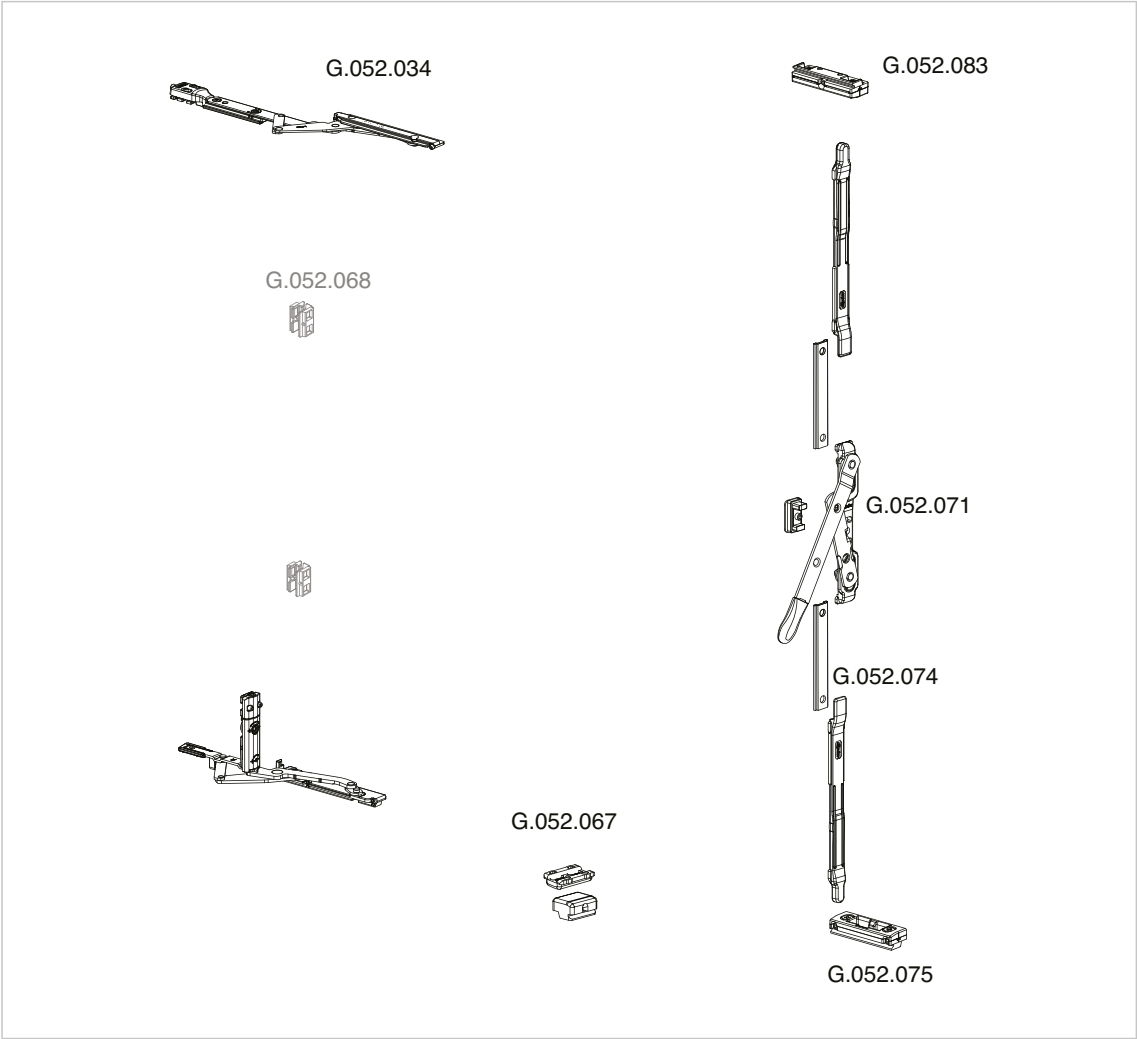


Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

JANELA OSCIOBATENTE MAIS BATENTE
DOBRADIÇA OCULTA 180KG - FOLHA PASSIVA

A.165



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

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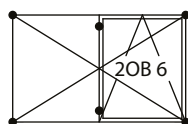
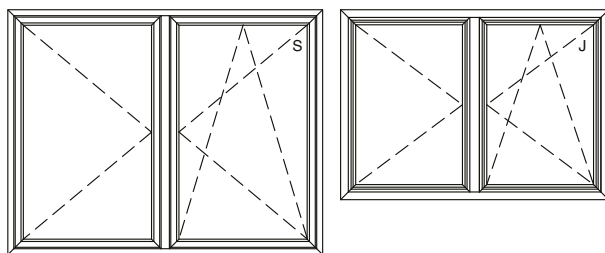
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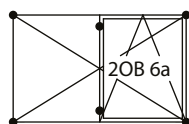
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JANELA OSCIOBATENTE MAIS BATENTE DOBRADIÇA OCULTA 120KG

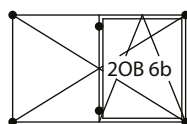
A.165



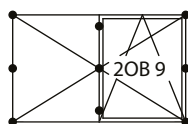
515 < largura < 655
500 < altura < 1400



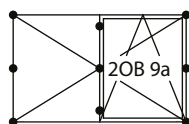
656 < largura < 950
500 < altura < 1400



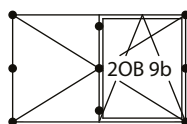
950 < largura < 1300
500 < altura < 1400



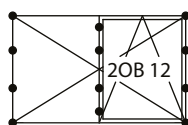
515 < largura < 655
1401 < altura < 2000



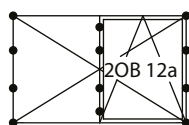
656 < largura < 950
1401 < altura < 2000



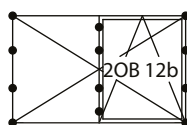
950 < largura < 1300
1401 < altura < 2000



515 < largura < 655
2001 < altura < 2600



656 < largura < 950
2001 < altura < 2600



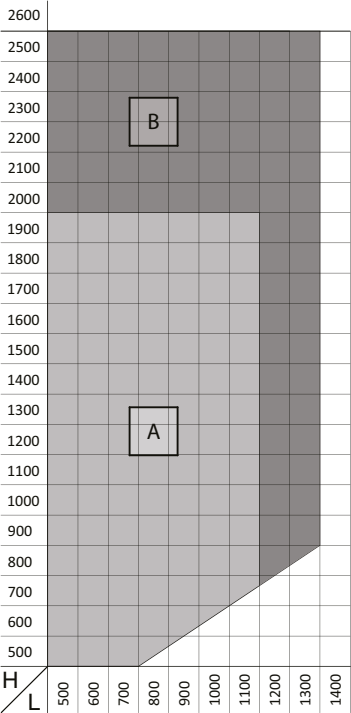
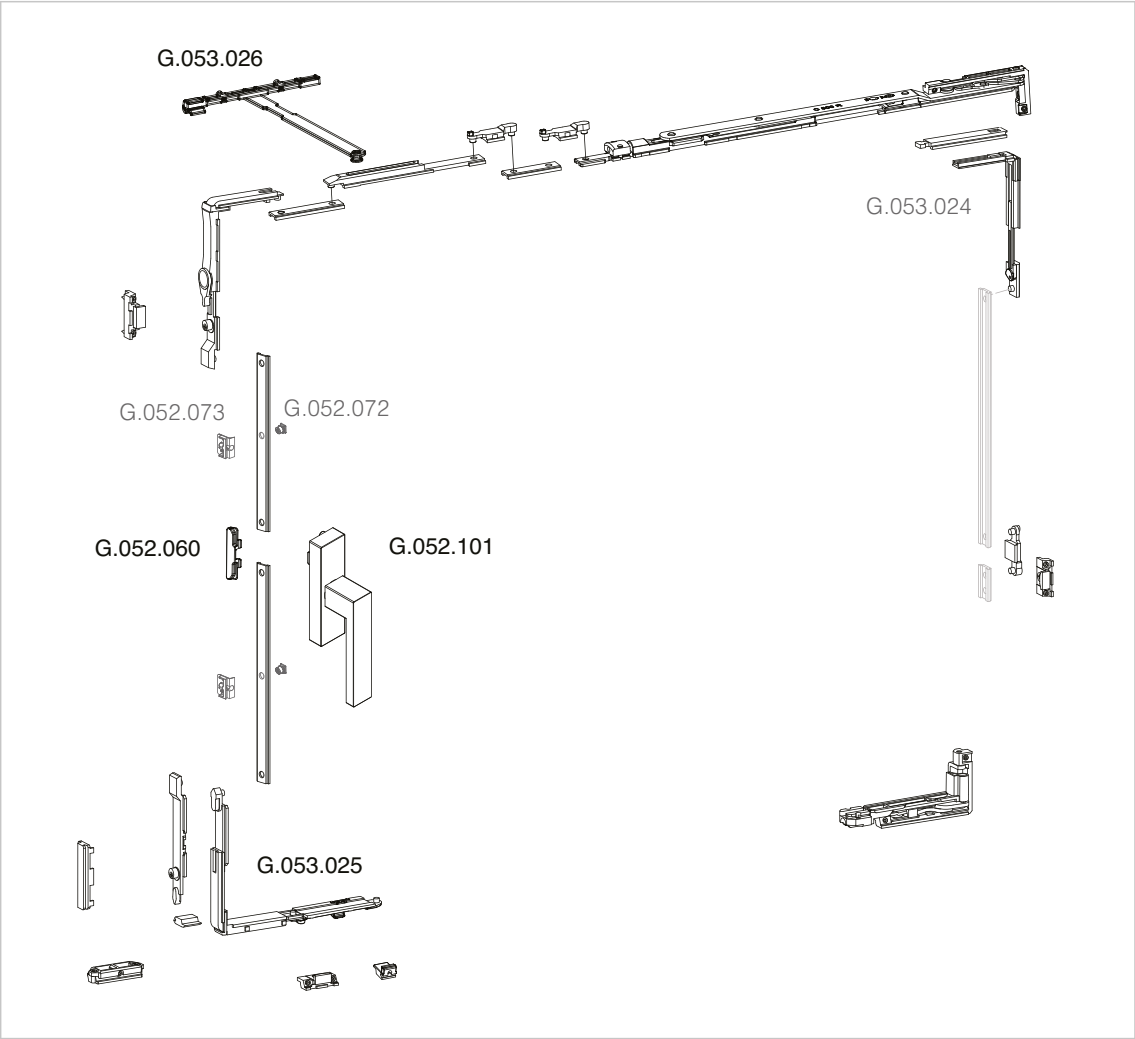
950 < largura < 1300
2001 < altura < 2600

referência		designação	2OB 6	2OB 6a	2OB 6b	2OB 9	2OB 9a	2OB 9b	2OB 12	2OB 12a	2OB 12b
urban	axis										
KIT	G.052.001 G.052.101	Cremona 1G	1	1	1	1	1	1	1	1	1
	G.053.020	Kit OB 515 - 655mm esq.	1	-	-	1	-	-	1	-	-
	G.053.021	Kit OB 515 - 655mm dir.	1	-	-	1	-	-	1	-	-
	G.053.022	Kit OB 655 - 1300mm esq.	-	1	1	-	1	1	-	1	1
	G.053.023	Kit OB 655 - 1300mm dir.	-	1	1	-	1	1	-	1	1
Complementos	G.052.060	Transmissão cremone 1G	1	1	1	1	1	1	1	1	1
	G.052.072	Ponto de fecho folha	-	-	-	1	1	1	2	2	2
	G.052.073	Ponto de fecho aro	-	-	-	1	1	1	2	2	2
	G.053.024	Ponto fecho ad. vertical	-	-	-	1	1	1	1	1	1
	G.053.025	Ponto fecho ad. horizontal	-	-	1	-	-	1	-	-	1
	G.053.026	Compasso sup. L>950mm	-	-	1	-	-	1	-	-	1
Ferragem 2ª Folha	G.052.067	Suporte folha	1	1	1	1	1	1	1	1	1
	G.052.068	Limitador de flecha	-	-	-	1	1	1	2	2	2
	G.053.027	Dobradiça OC.120 kg esq.	1	1	1	1	1	1	1	1	1
	G.053.028	Dobradiça OC.120 kg dir.	1	1	1	1	1	1	1	1	1
	G.053.029	Kit fecho Bidirecional	1	1	1	1	1	1	1	1	1

Para mais informações consultar **Anexo A.07**

JANELA OSCIOBATENTE MAIS BATENTE
DOBRADIÇA OCULTA 120KG - FOLHA ATIVA

A.165



A

A.165.020
Perfil grupo A < 90 kg

A.165.300

B

A.165.050
Perfil grupo B < 120 kg

A.165.310

Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$

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66

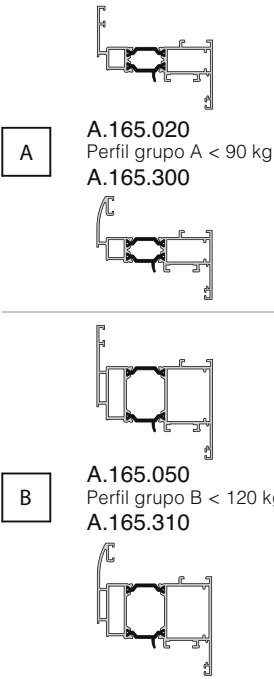
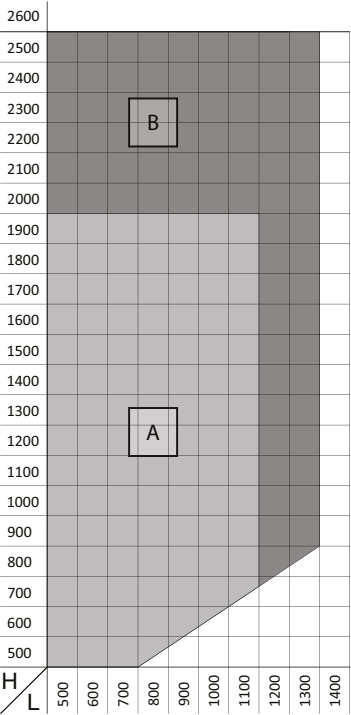
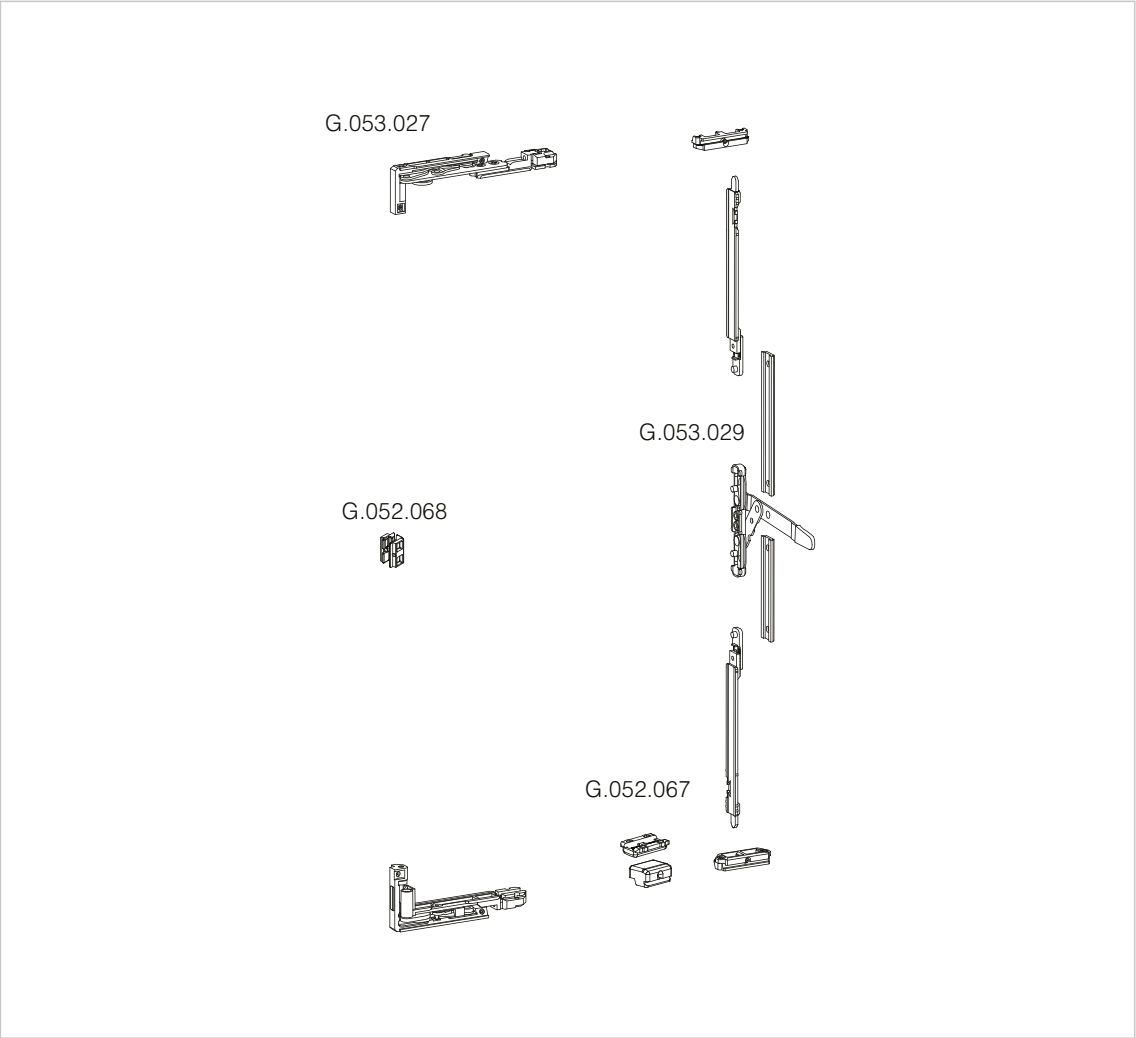
Instruções Fabrico
134

Instruções Montagem
142

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148

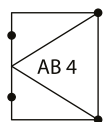
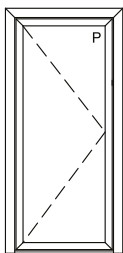
JANELA OSCIOBATENTE MAIS BATENTE
DOBRADIÇA OCULTA 120KG - FOLHA PASSIVA

A.165



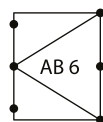
Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.020 | Folha (2000x1200 mm)
 $E = 90 / (2 \times 1.2 \times 2.5) = 15 \text{ mm}$



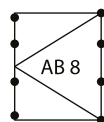
650 < largura < 900

2000 < altura < 2100



650 < largura < 1100

2100 < altura < 2500



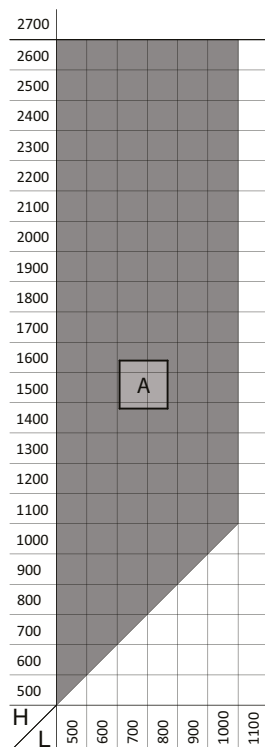
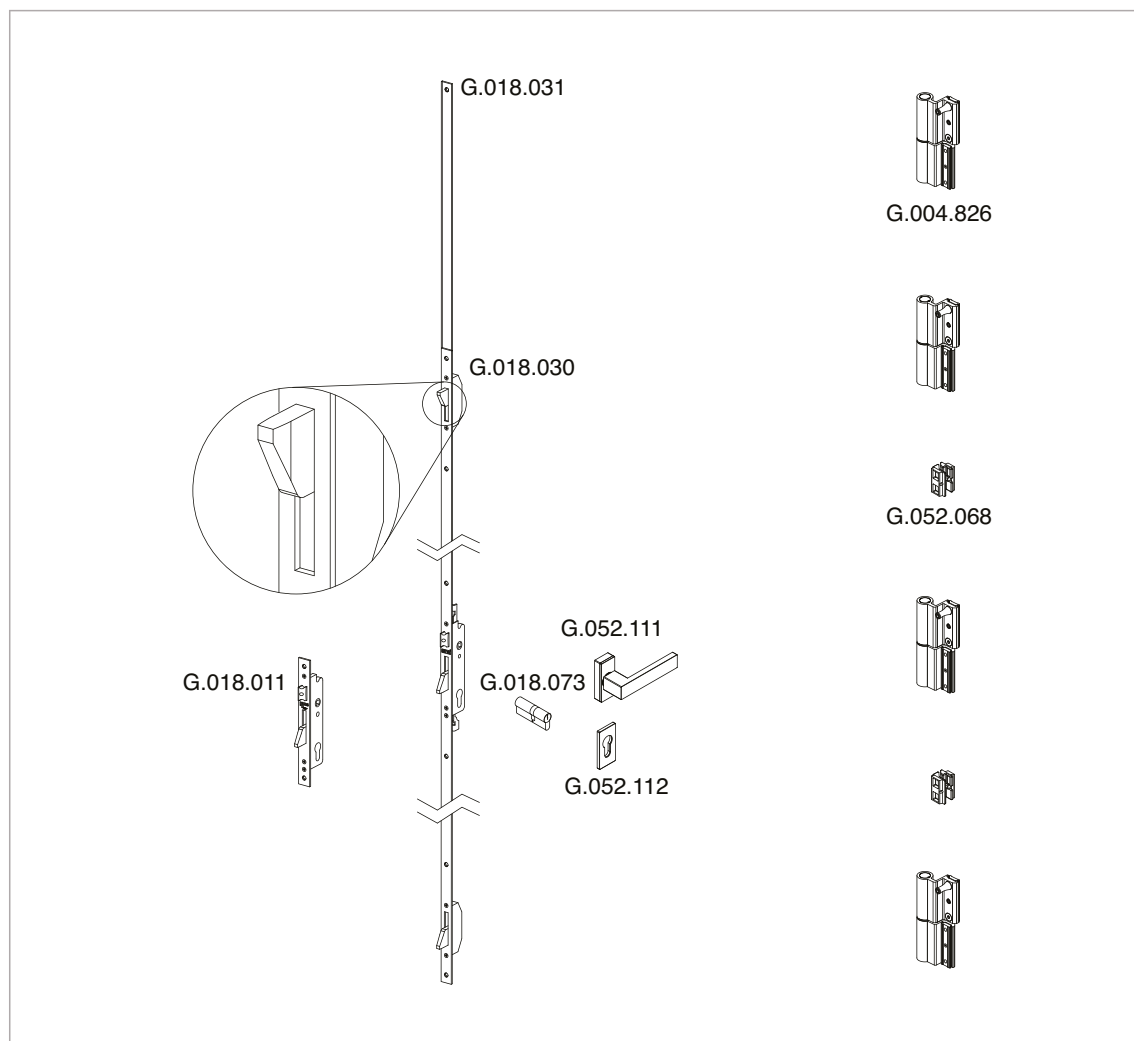
650 < largura < 1100

2500 < altura < 2700

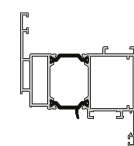
	referência urban	referência axis	designação	AB 4	AB 6	AB 8
	G.052.010	G.052.110	Par de muletas c/ mola recuperação	1	1	1
	G.052.011	G.052.111	Muleta com mola recuperação			
Ferragem Base	G.018.011		Fechadura 1P fecho			
	G.018.030		Fechadura 3P fecho (testa 1850 mm)	1	1	1
	G.018.031		Fechadura 3P fecho (testa 2300 mm)			
	G.018.073		Cilindro EU segurança 30x60 mm	1	1	1
	G.052.012	G.052.112	Espelho de cilindro	2	2	2
Dobradiças	G.004.826		Dobradiça de porta 120 kg	2	3	4
	G.052.068		Limitador de flecha	-	1	2

PORTA UMA FOLHA COM FECHADURA

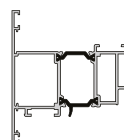
A.165



A



A.165.050
Perfil grupo A < 120 kg
A.165.120

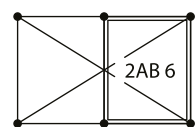
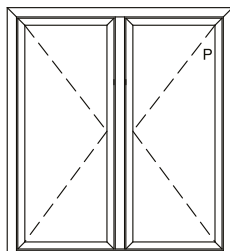


Cálculo

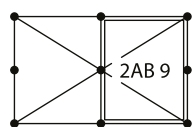
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo

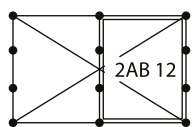
A.165.050 | Folha (2000x1200 mm)
 $E = 120 / (2 \times 1.2 \times 2.5) = 20 \text{ mm}$



650 < largura < 900
2000 < altura < 2100



650 < largura < 1100
2100 < altura < 2500

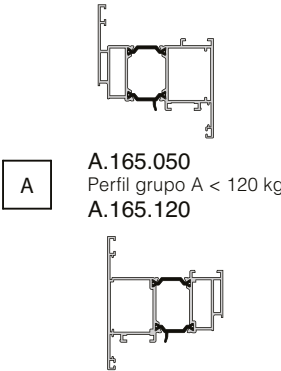
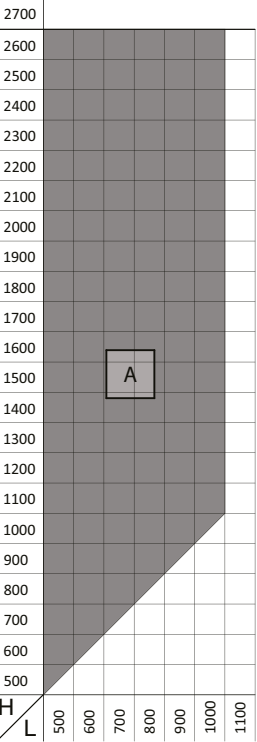
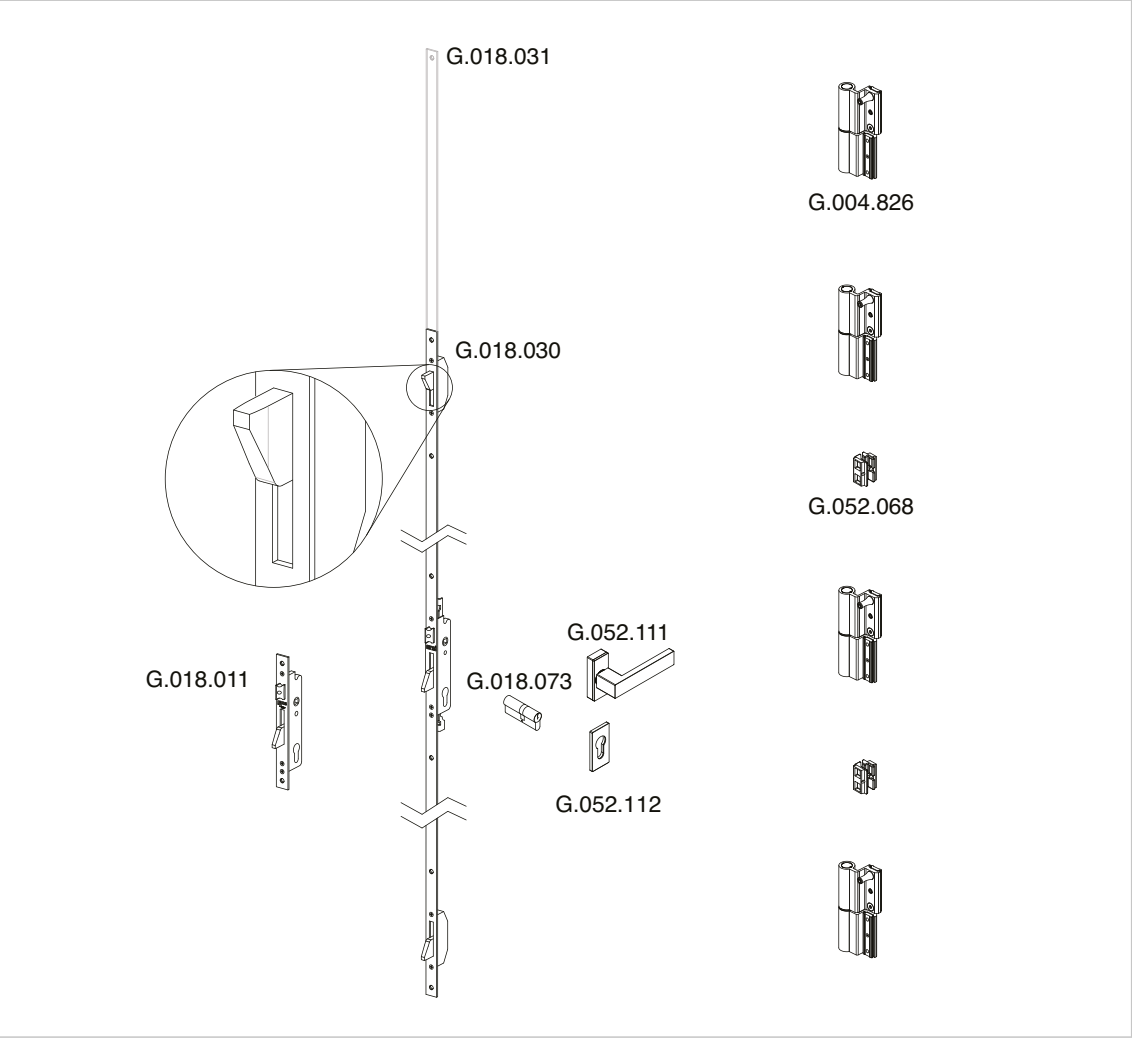


660 < largura < 1100
2500 < altura < 2700

	referência urban	referência axis	designação	2 AB 6	2 AB 9	2 AB 12
Ferragem Folha Ativa	G.052.010 G.052.110		Par de muletas c/ mola recuperação			
	G.052.011 G.052.111		Muleta com mola recuperação	1	1	1
	G.018.011		Fechadura 1P fecho			
	G.018.030		Fechadura 3P fecho (testa 1850 mm)	1	1	1
	G.018.031		Fechadura 3P fecho (testa 2300 mm)			
	G.018.073		Cilindro EU segurança 30x60 mm	1	1	1
	G.052.012 G.052.112		Espelho de cilindro	2	2	2
Ferragem Folha Passiva	G.052.083		Engate simples aro	2	2	2
	G.052.081	ou	Fecho nylon 2ª folha			
	G.052.070		Fecho de segunda folha com alavanca	2	2	2
Dobradiças	G.004.826		Dobradiça de porta 120 kg	4	6	8
	G.052.068		Limitador de flecha	-	2	4

PORTA DUAS FOLHAS
COM FECHADURA - FOLHA ATIVA

A.165

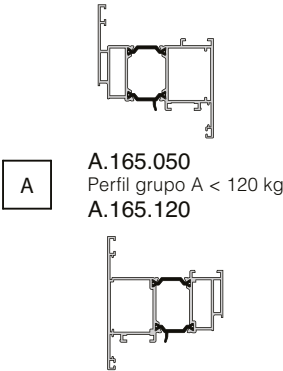
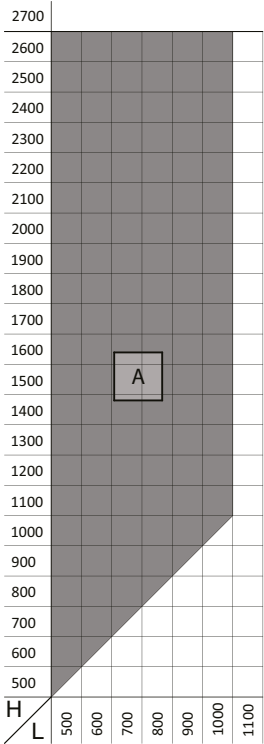
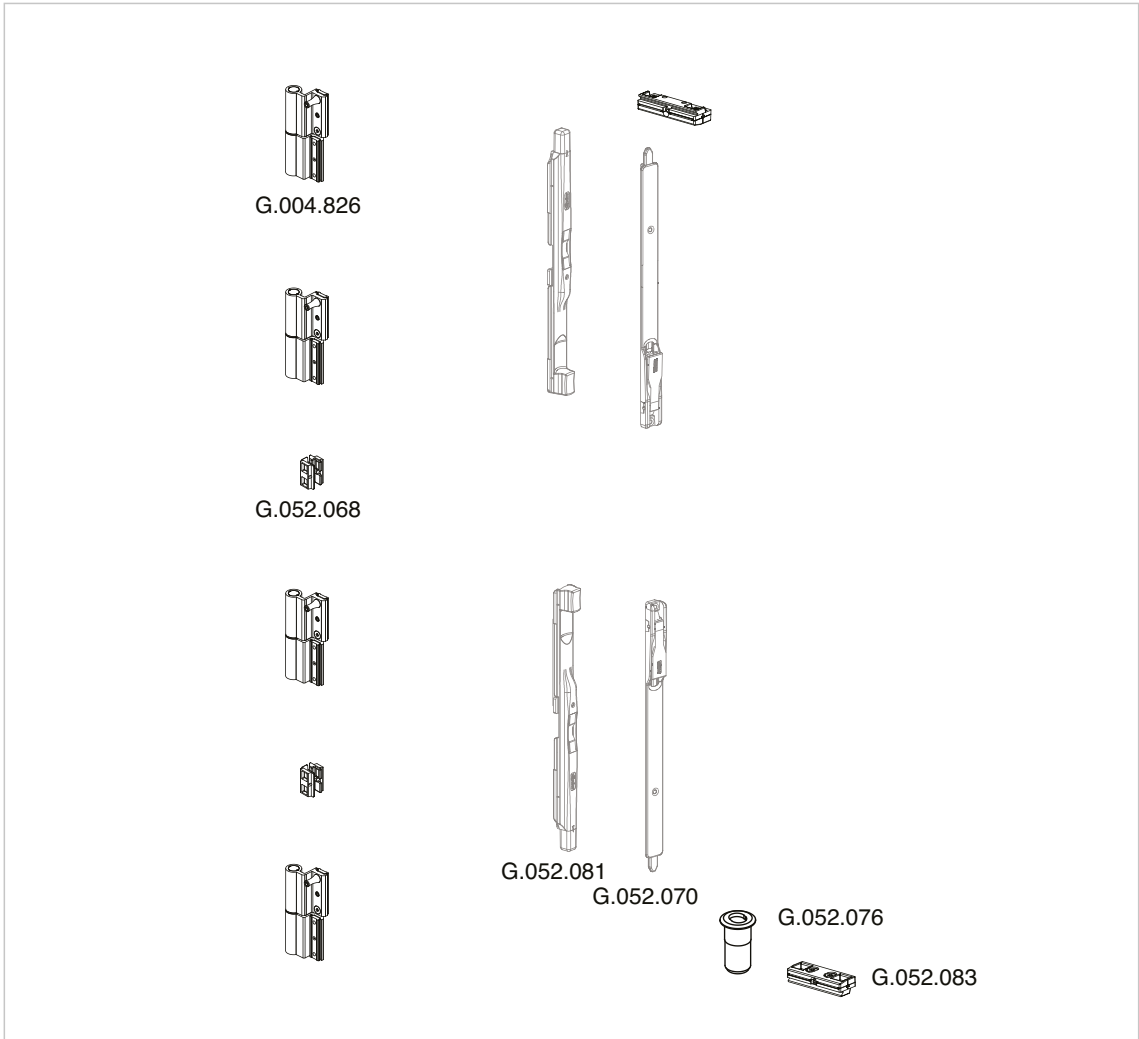


Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A.165.050 | Folha (2000x1200 mm)
 $E = 120 / (2 \times 1.2 \times 2.5) = 20 \text{ mm}$

PORTA DUAS FOLHAS
COM FECHADURA - FOLHA PASSIVA

A.165



Cálculo
Espessura Vidro s/ Espaçador
 $E = \text{Peso} / (L \times H \times 2.5)$

Exemplo
A. 165.050 | Folha (2000x1200 mm)
 $E = 120 / (2 \times 1.2 \times 2.5) = 20 \text{ mm}$

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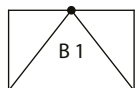
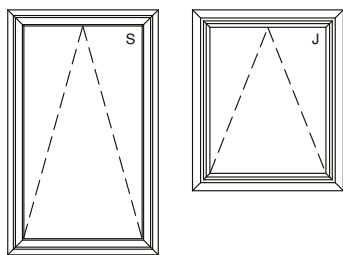
Instruções Fábri
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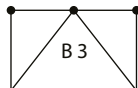
Acessórios
148

JANELA BASCULANTE

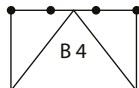
A.165



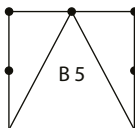
400 < largura < 800
390 < altura < 1200



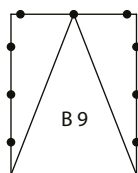
801 < largura < 1500
390 < altura < 1200



1501 < largura < 2500
390 < altura < 1200

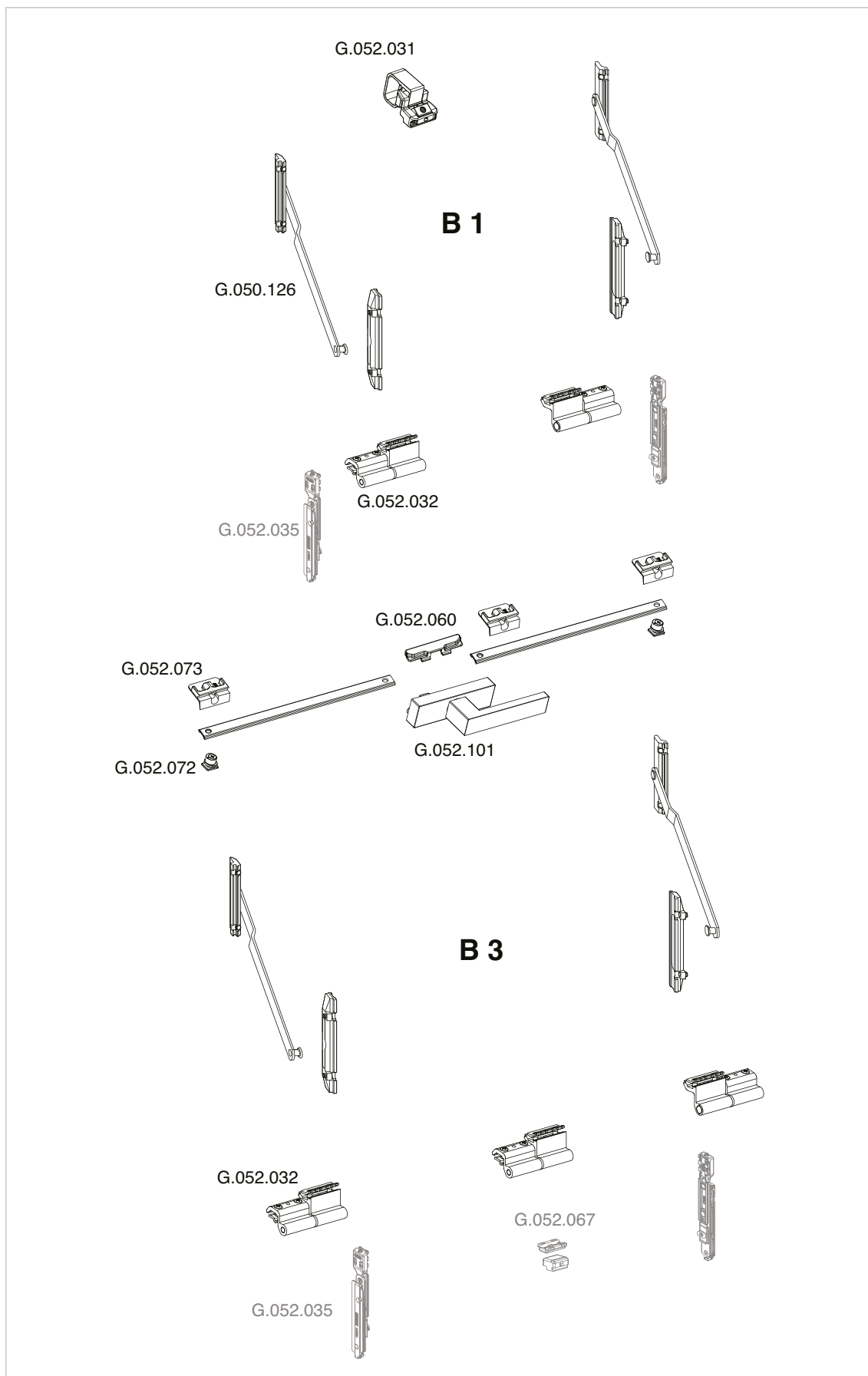


1250 < largura < 1800
800 < altura < 1800



390 < largura < 1500
1201 < altura < 2700

	referência urban	designação	B 1	B 3	B 4	B 5	B 9
Ferragem	G.052.001 G.052.101	Cremone 1G	-	1	1	1	1
	G.052.031	Fecho de bandeira c/ afinação	1	-	-	-	-
	G.050.126	Compasso basculante	2	2	-	-	-
	G.052.060	Transmissão cremone 1G	-	1	1	1	1
	G.052.072	Ponto de fecho folha	-	2	4	2	6
	G.052.073	Ponto de fecho aro	-	3	4	5	9
	G.052.091	Compasso basculante com transmissão	-	-	2	2	2
	G.052.092	Ângulo de reenvio	-	-	-	2	2
Dobradiça 60 kg	G.052.032	Dobradiça CE 60 kg	2	3	4	3	3
	G.052.067	Suporte folha	-	-	2	2	2
Dobradiça 160 kg	G.052.035	Kit dobradiça basculante oculta 160 kg	1	1	1	1	1
	G.052.067	Suporte folha	-	1	3	2	2


Produto
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Tipologias Construtivas
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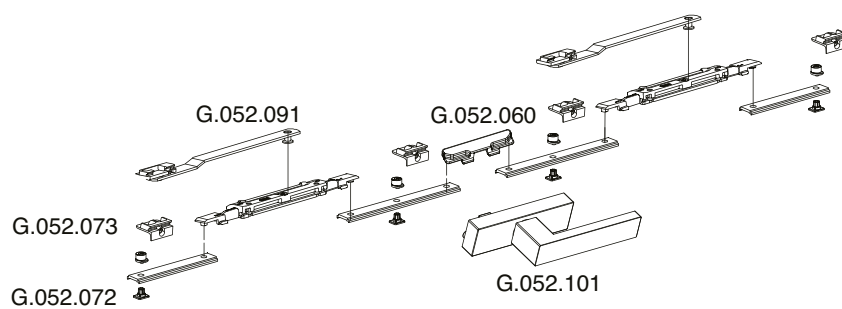
Instruções Fábri
134

Instruções Montagem
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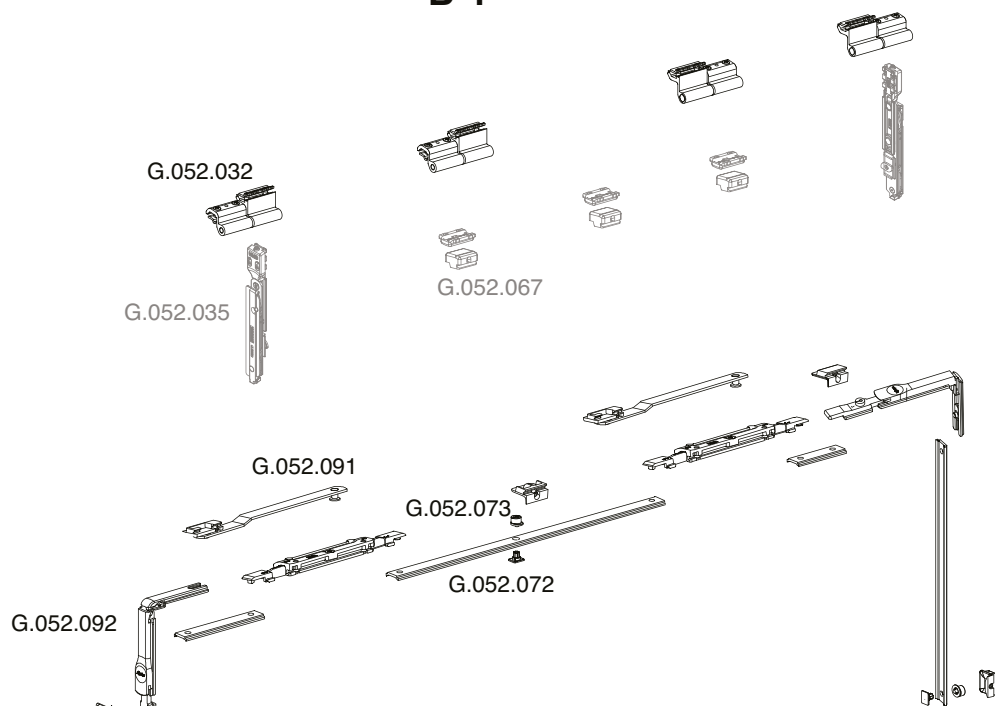
Acessórios
148

JANELA BASCULANTE

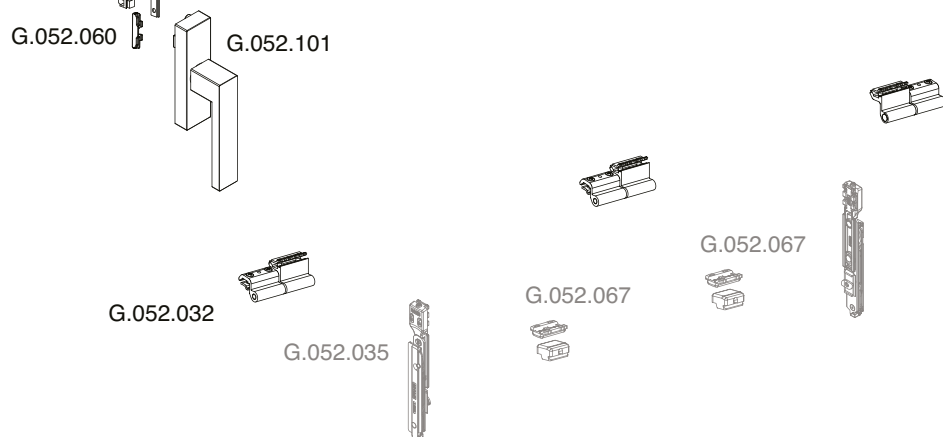
A.165

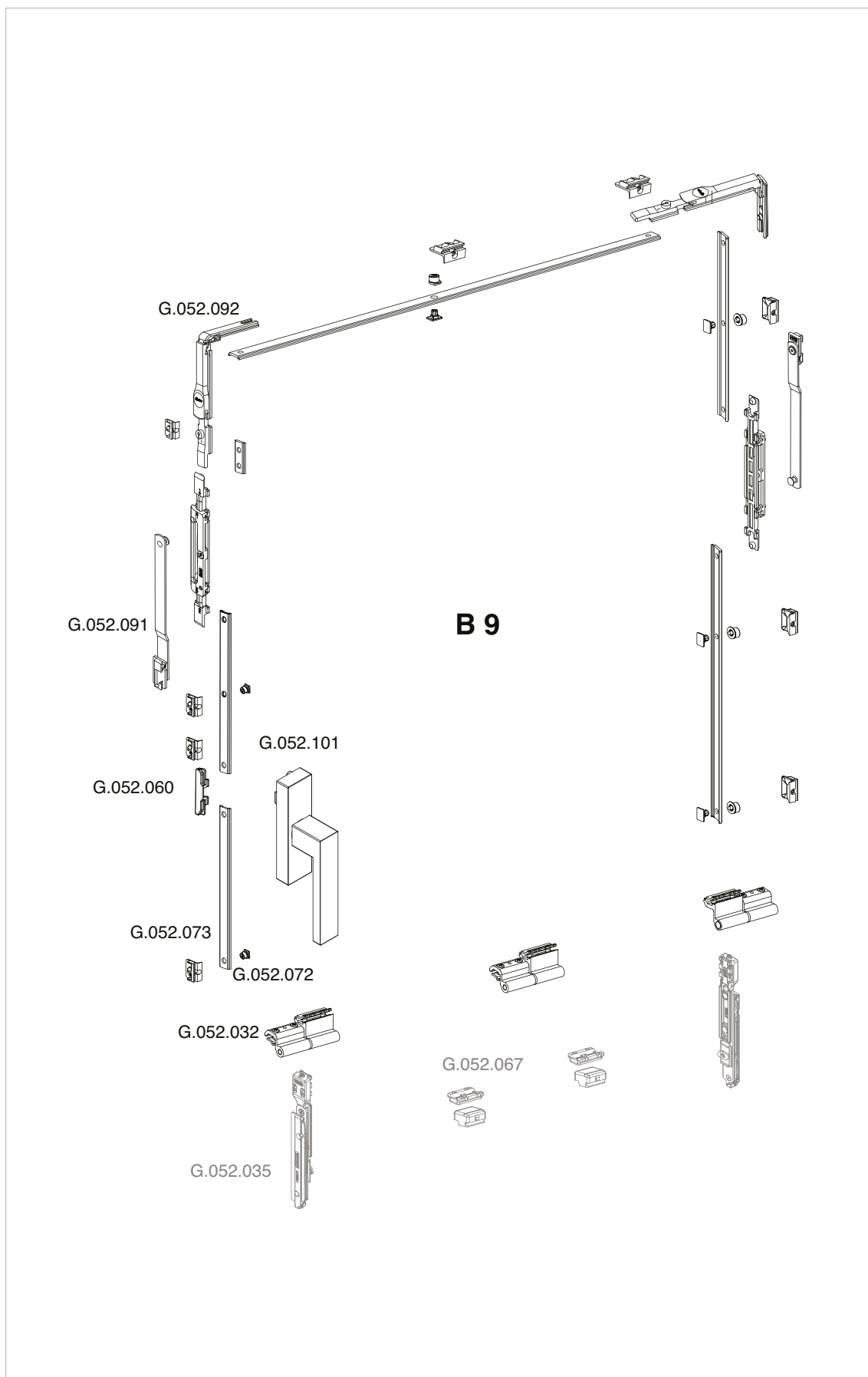


B 4



B 5




Produto
6

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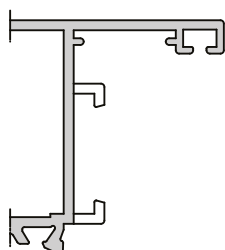
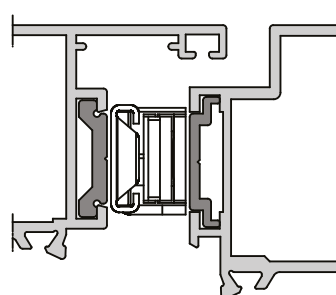
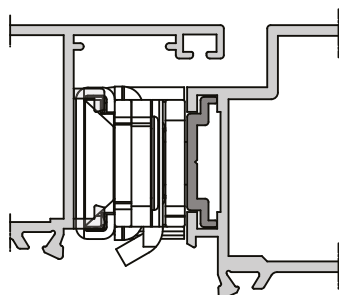
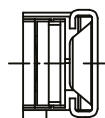
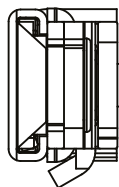
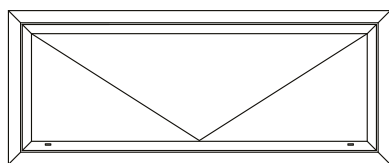
Instruções Fábri
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JANELA PROJETANTE

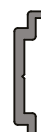
A.165



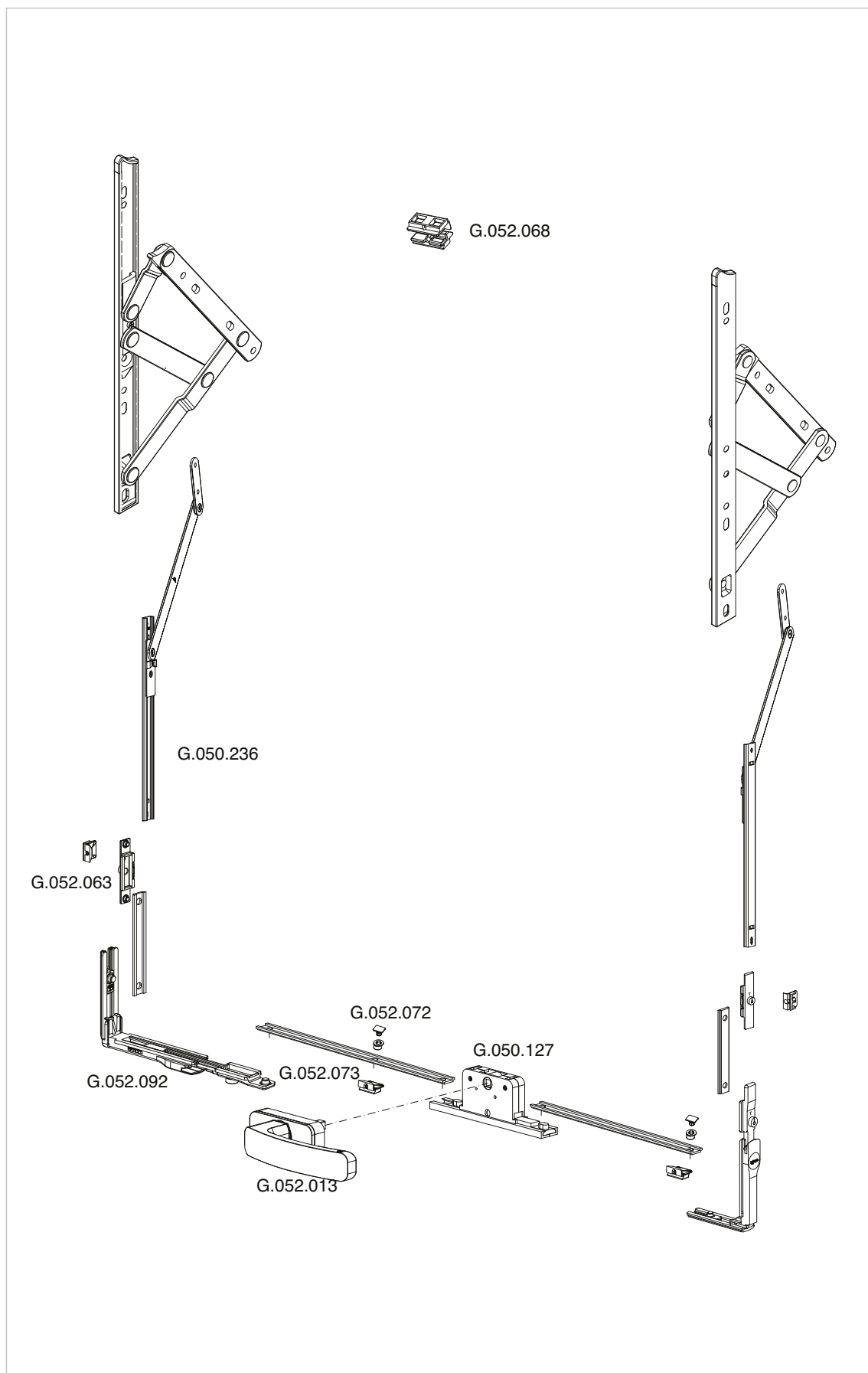
A.040.012



A.100.013

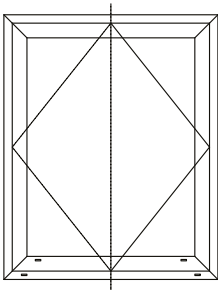


	referência		designação	quantidade
	urban	axis		
Ferragem Projetante	G.052.013	G.052.113	Manete 3 posições c/ Q7x36mm	1
	G.052.014	G.052.114	Manete 3 posições c/ Q7x36mm e chave	1
	G.050.127		Mecanismo Projetante	1
	G.050.241		Compasso Projetante 350 < H ≤ 550mm 20kg	1
	G.050.240		Compasso Projetante 500 < H ≤ 780mm 21kg	1
	G.050.239		Compasso Projetante 750 < H ≤ 1000mm 65kg	1
	G.050.239+236		Compasso Projetante 1000 < H ≤ 1250mm 65kg	1
	G.050.238		Compasso Projetante 1200 < H ≤ 1500mm 120kg	1
	G.050.238+236+235		Compasso Projetante 1500 < H ≤ 1800mm 120kg	1
	G.052.063		Ponto de fecho intermédio H < 1300mm	2
	G.052.068		Limitador de flecha 900 < L < 1200mm	1
	G.052.068		Limitador de flecha 1201 < L < 2200mm	2
	G.052.072		Ponto de fecho folha 900 < L < 1200mm	2
	G.052.072		Ponto de fecho folha 1201 < L < 2200mm	4
	G.052.073		Ponto de fecho aro 900 < L < 1200mm	2
	G.052.073		Ponto de fecho aro 1201 < L < 2200mm	4
	G.052.092		Ângulo de reenvio H < 1300mm	2

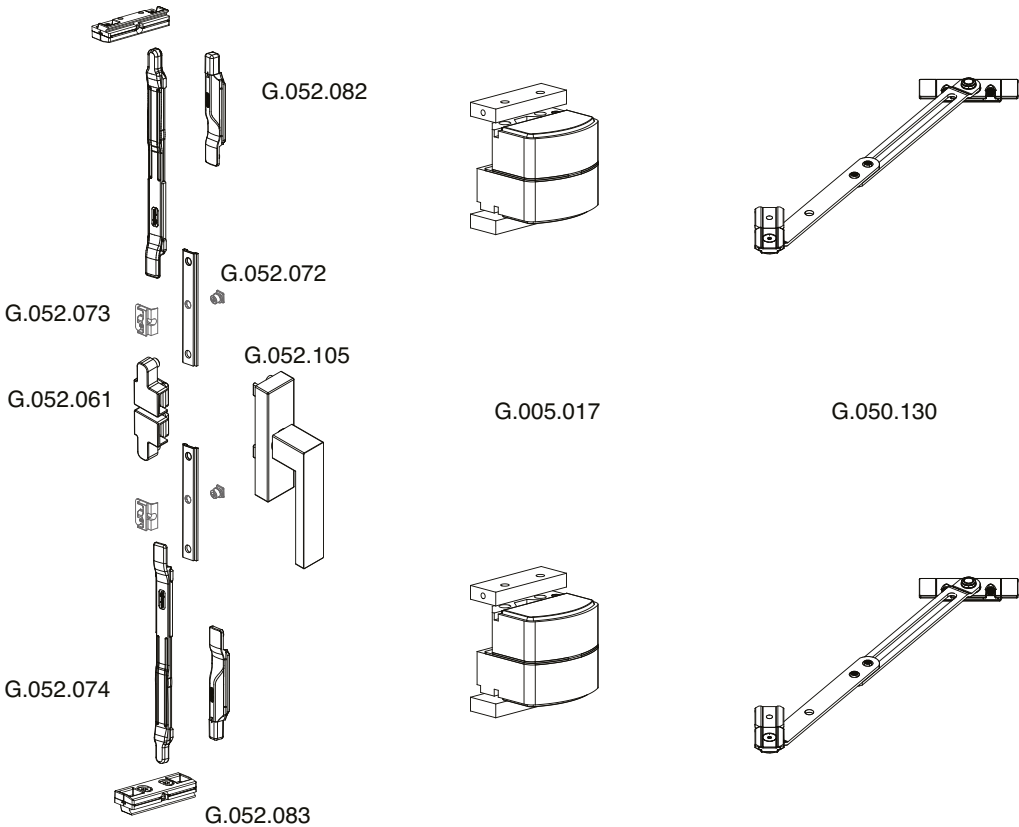


JANELA PIVOTANTE VERTICAL

A.165

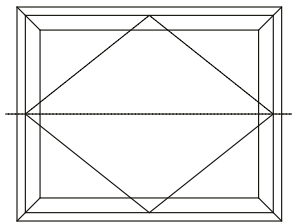


Largura máxima	1200mm
Altura máxima	1200mm
Peso máximo	80kg

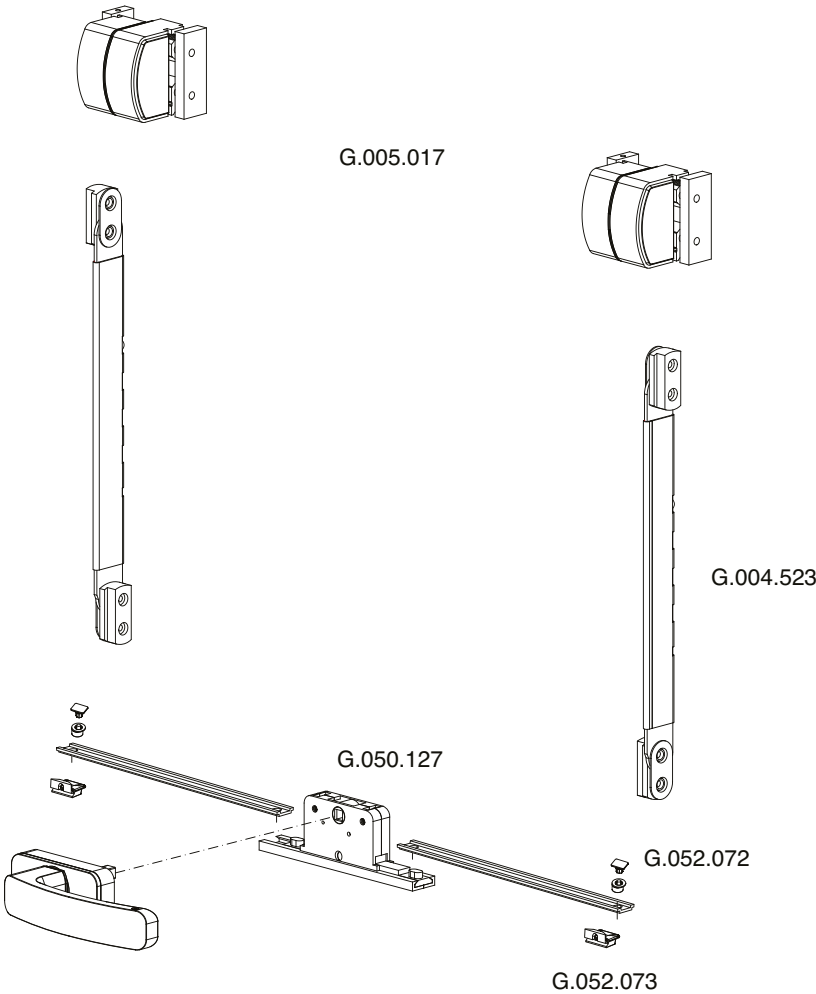


	referência		designação	quantidade
	urban	axis		
Ferragem Pivotante	G.052.005	G.052.105	Cremone 2G	1
	G.005.017		Jogo pivotante	1
	G.050.130		Limitador de abertural (janela eixo vertical)	2
	G.052.061		Transmissão cremone 2G	1
	G.052.072		Ponto de fecho folha	2
	G.052.073		Ponto de fecho aro	2
	G.052.074	ou	Fecho ponteira folha	2
	G.052.082		Fecho ponteira nylon folha	2
	G.052.083		Engate simples aro	2

Para mais informações consultar **Anexo A.01**



Largura máxima	1200mm
Altura máxima	1200mm
Peso máximo	60kg



Ferragem Pivotante	referência	designação	quantidade
	urban	axis	
	G.052.013 G.052.113	Manete 3 posições c/ Q7x36mm	1
	G.052.014 G.052.114	Manete 3 posições c/ Q7x36mm e chave	1
	G.004.523	Compasso regulável (janela eixo horizontal)	2
	G.005.017	Jogo pivotante	1
	G.050.127	Mecanismo projetante	1
	G.052.072	Ponto de fecho folha	2
	G.052.073	Ponto de fecho aro	2

Para mais informações consultar **Anexo A.01**

06

INS. FABRICO

sistema de abrir RPT
A.165

Mecanizações - A.165

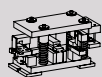
136

Plano de Drenagem

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MECANIZAÇÕES - A.165

A.165

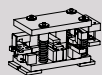
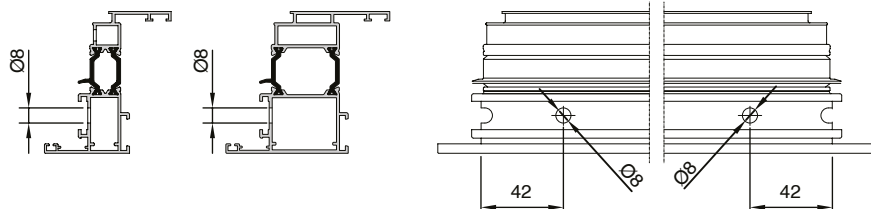


Furação p/ esquadros - G.004.764 | G.004.777

A.165.020 | A.165.050

Furação: Ø8 mm

Cortante G.007.063 | G.007.090

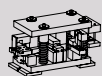
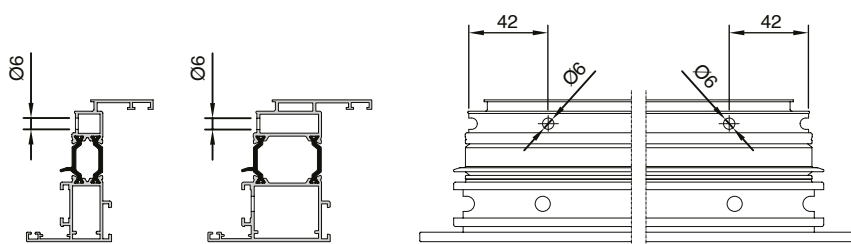


Furação p/ esquadros - G.004.765 | G.004.778

A.165.020 | A.165.050

Furação: Ø6 mm

Cortante G.007.063 | G.007.090

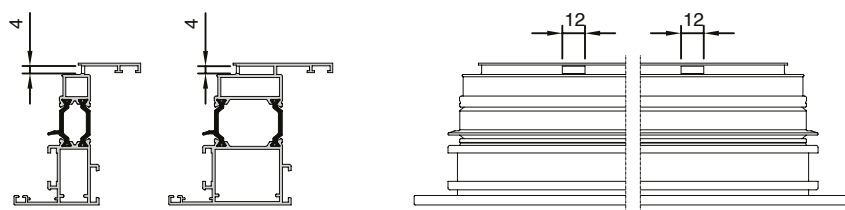


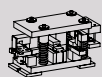
Rasgo de Drenagem

A.165.020 | A.165.050

Rasgo: 12x4 mm

Cortante G.007.063 | G.007.090

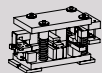
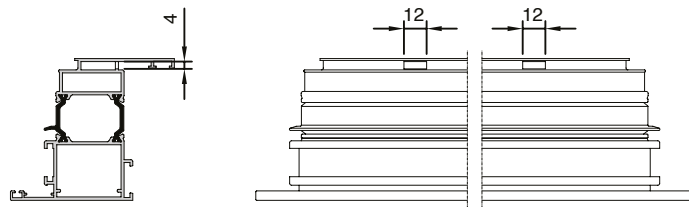


**Rasgo de Drenagem**

A.165.050

Rasgo: 12x4 mm

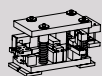
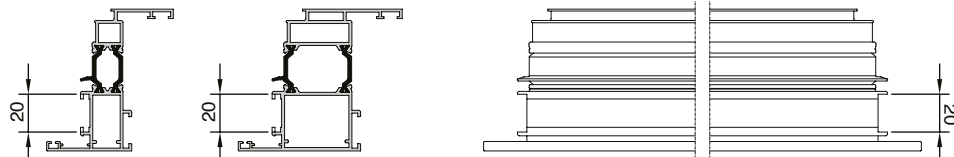
Cortante G.007.063 | G.007.090

**Corte Abas do Canal - Barra Cremone**

A.165.020 | A.165.050

Corte: Até remover aba

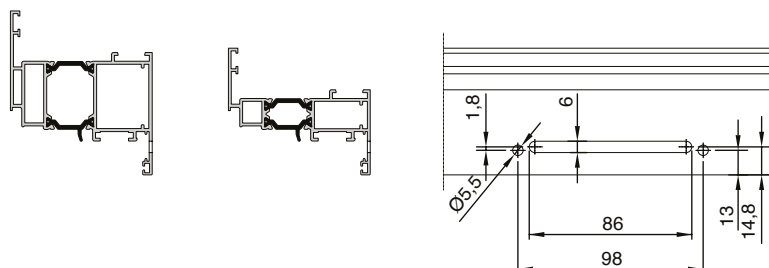
Cortante G.007.063 | G.007.090

**Rasgo p/ Cremone**

A.165.020 | A.165.050

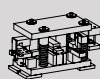
Rasgo: Operação cortante

Cortante G.007.063 | G.007.090



MECANIZAÇÕES - A.165

A.165

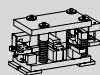
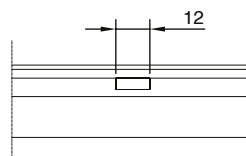
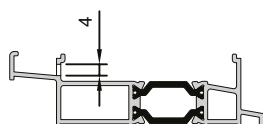


Rasgo de Drenagem

A.165.090

Rasgo: 12x4 mm

Cortante G.007.063 | G.007.090

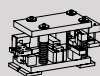
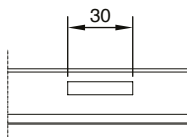
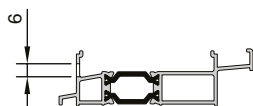
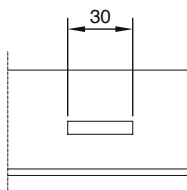
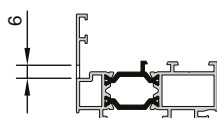


Rasgo de Drenagem

A.165.010 | A.165.090

Rasgo: 30x6 mm

Cortante G.007.063 | G.007.090

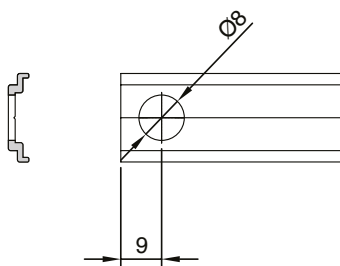


Furação - Barra Cremone

A.100.013

Furação: Ø8 mm

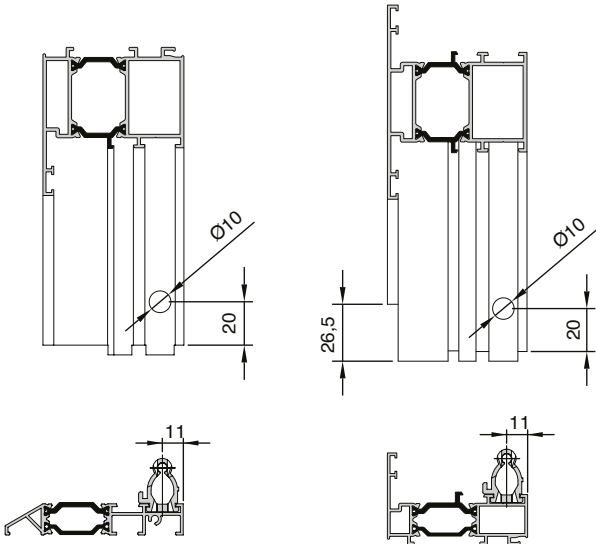
Cortante G.007.063 | G.007.090





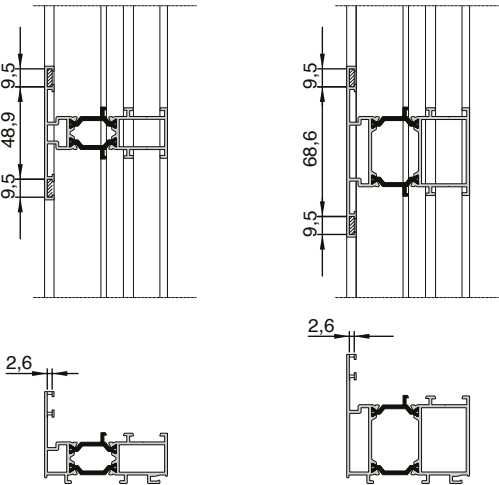
Furação Aperto - Uniãos de Travessa G.004.781

A.165.040 | A.165.070
Furação: Ø10 mm
Cortante G.007.075 | G.007.090



Rasgo - Peça Fixação de Travessas - G.004.458

A.165.010 | A.165.040
Rasgo: 9,5x2,6 mm
Cortante G.007.075 | G.007.090



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MECANIZAÇÕES - A.165

A.165

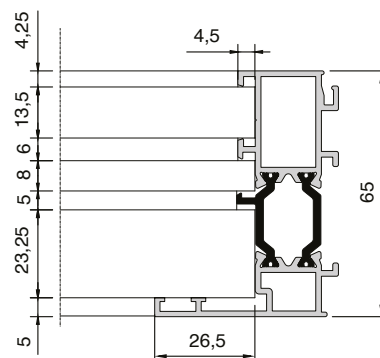
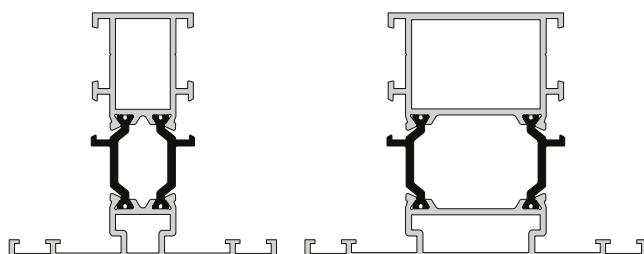


Entalhe - Montante

A.165.060 | A.165.070

Entalhe: Ligação ao Aro Fixo

Conjunto de Fresas G.007.071

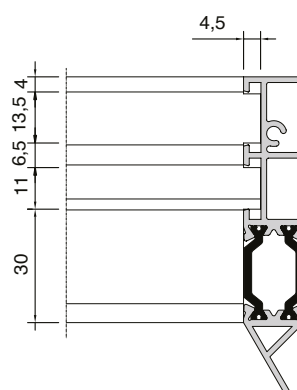
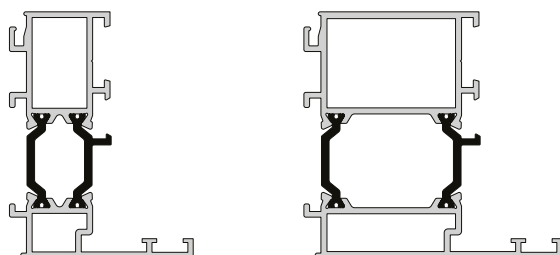


Entalhe - Aro Fixo

A.165.010 | A.165.040

Entalhe: Ligação à Soleira A.165.360

Conjunto de Fresas G.007.071

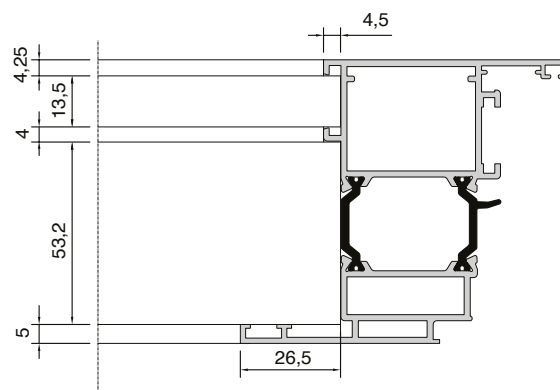
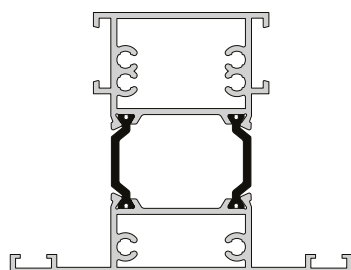


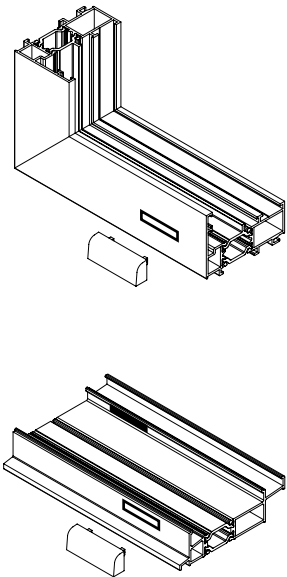
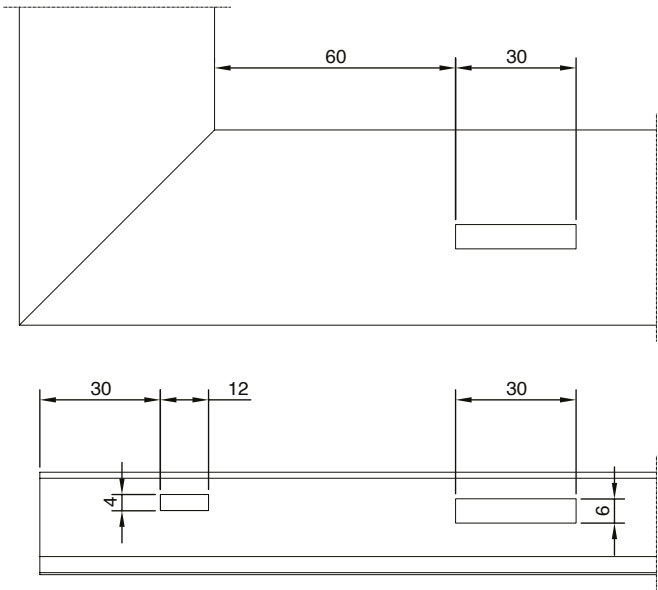
Entalhe - Travessa

A.165.320

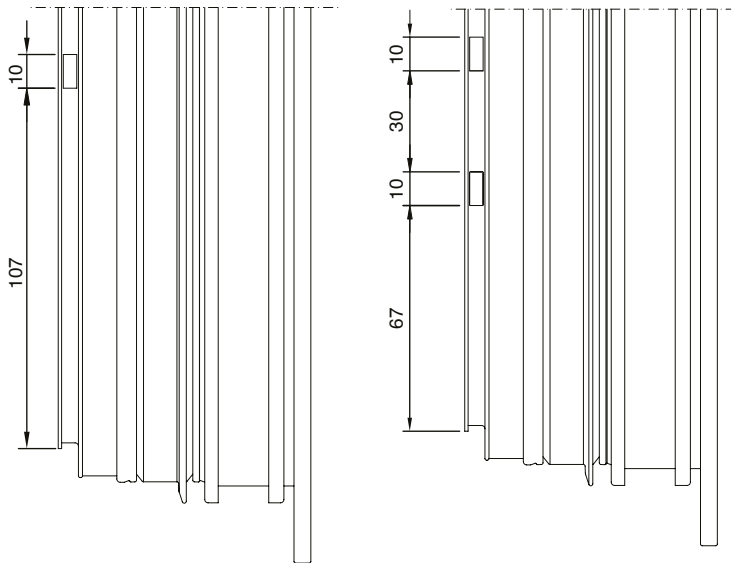
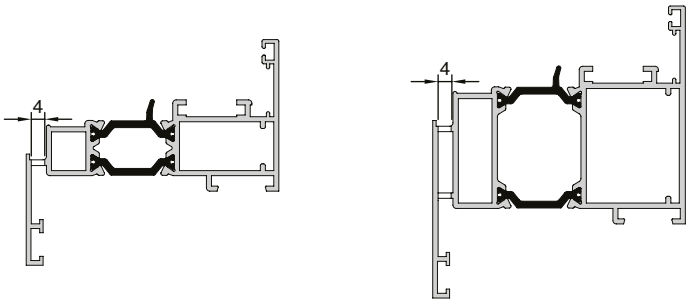
Entalhe: Ligação à sacada A.165.050

Conjunto de Fresas G.007.071

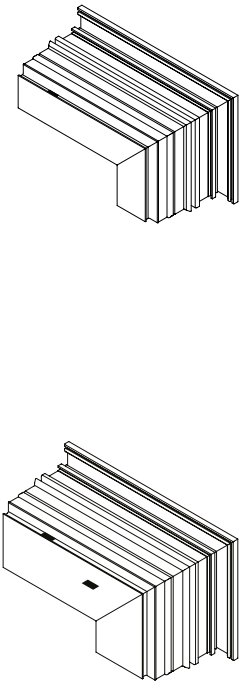




Nota
Distância máxima entre rasgos de drenagem = 800mm



Nota
Aplicar mastique de silicone na ligação entre perfis.



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07 **INS. MONTAGEM**

sistema de abrir RPT
A.165

Esquadrias

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Travessas

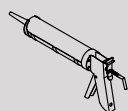
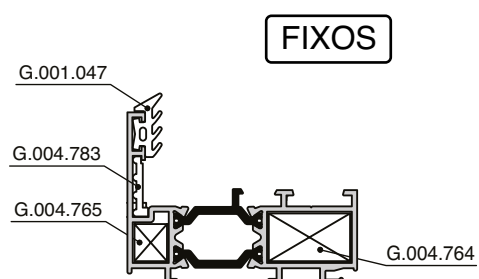
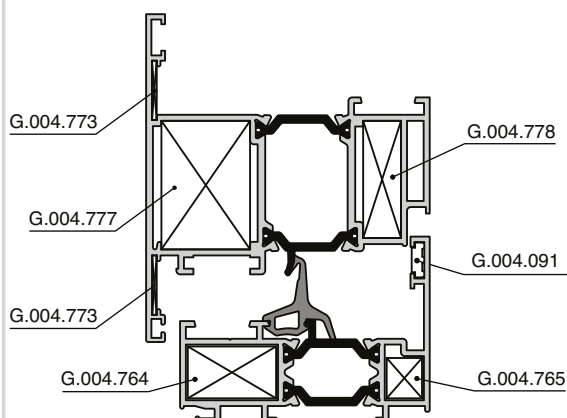
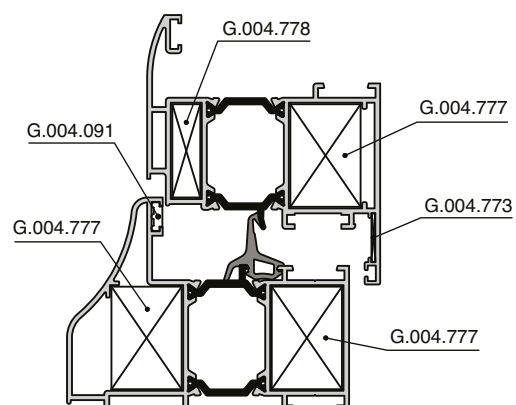
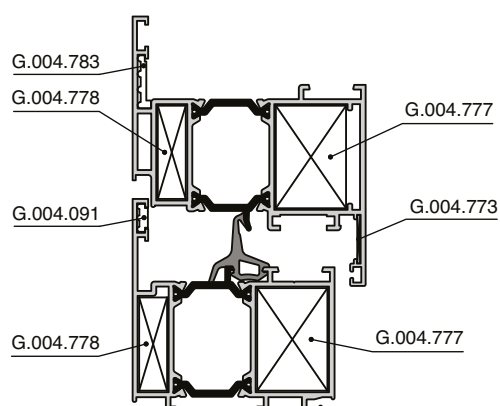
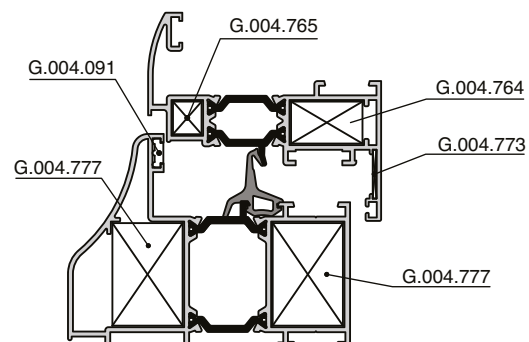
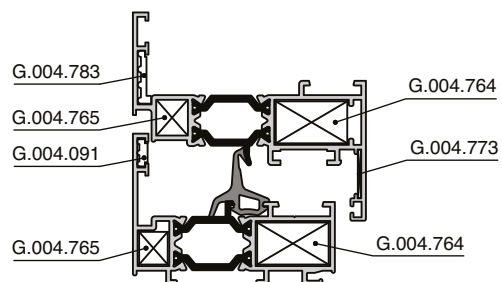
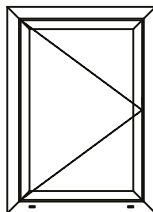
146

Calços e Vedações

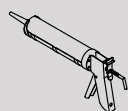
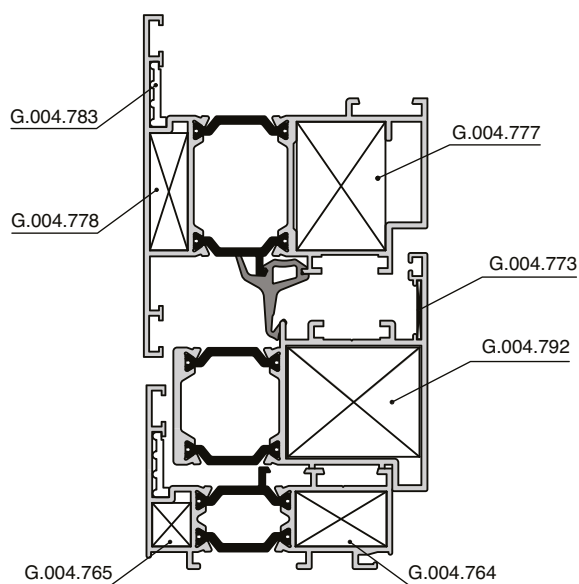
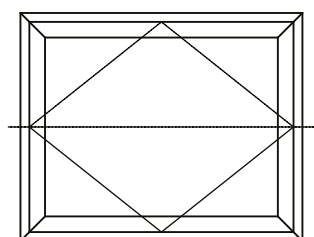
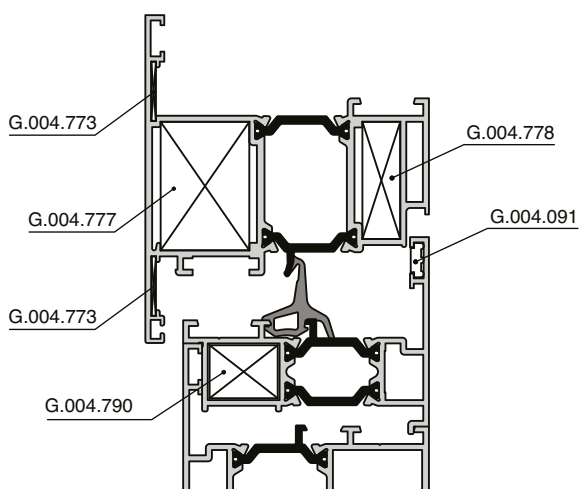
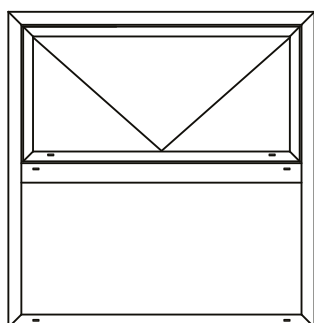
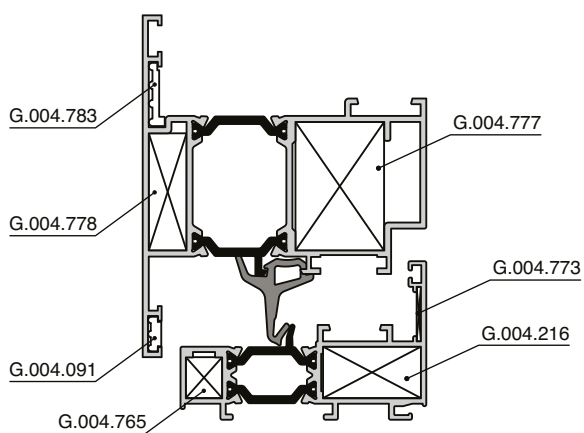
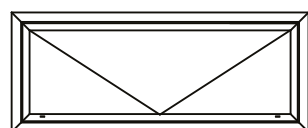
147

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A.165



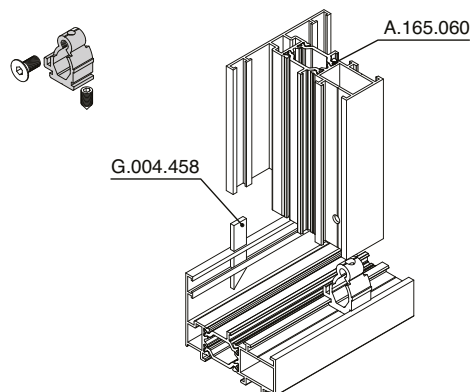
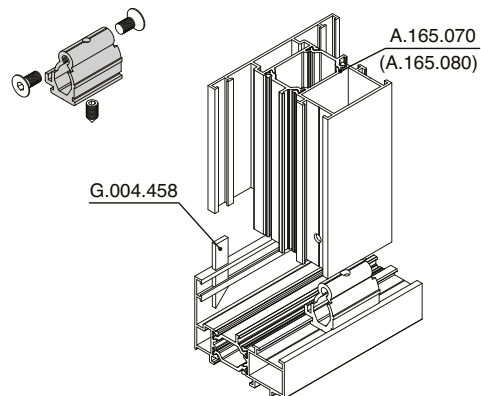
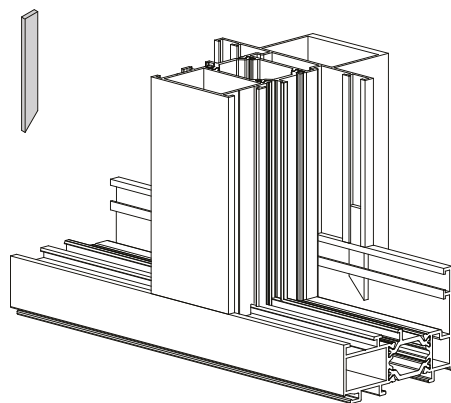
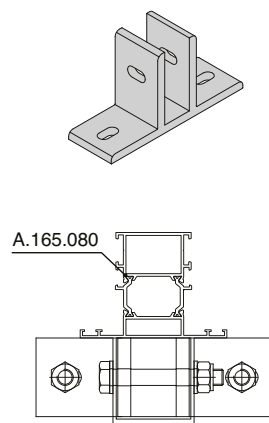
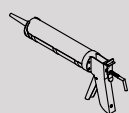
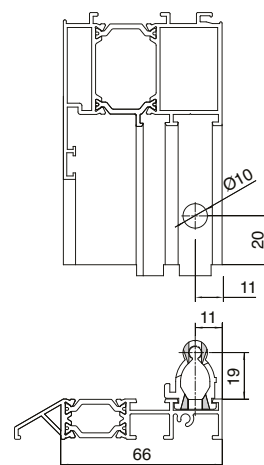
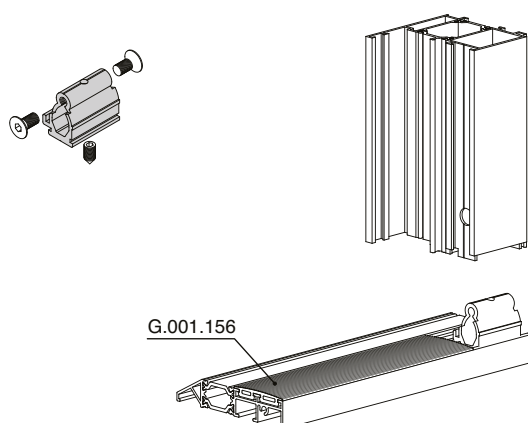
Aplicar mastique de silicone na ligação entre perfis.



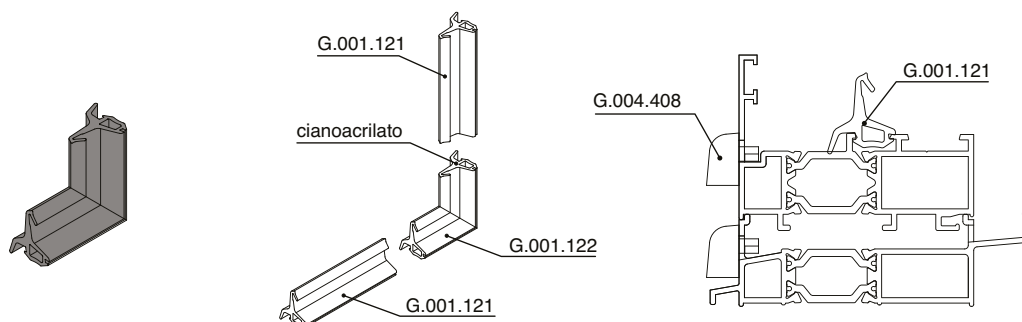
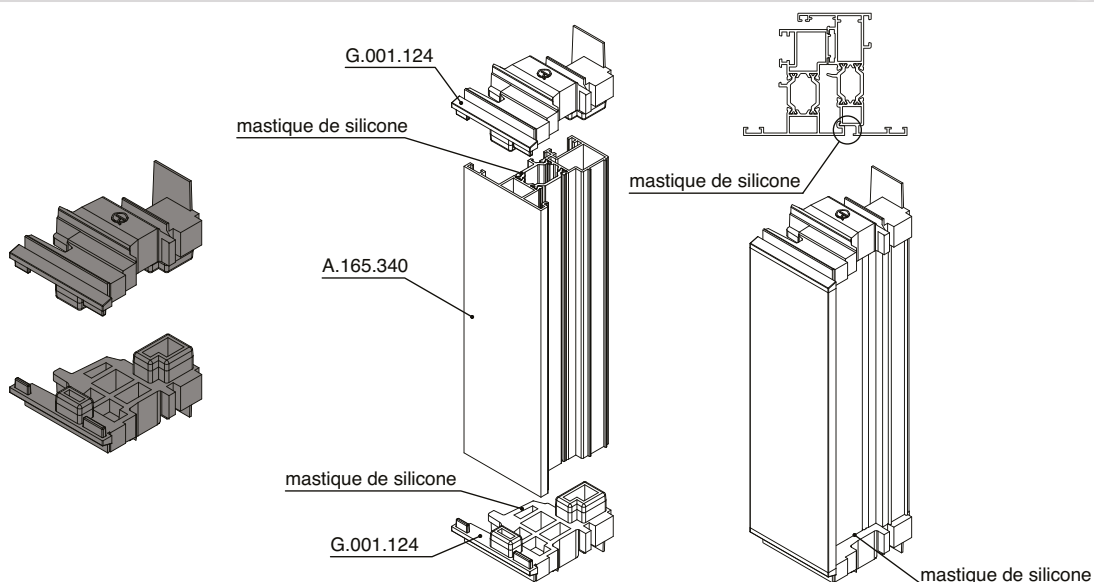
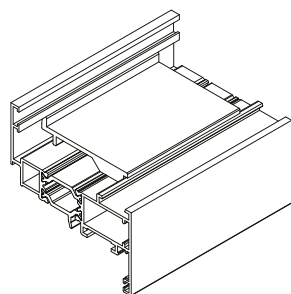
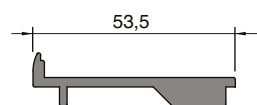
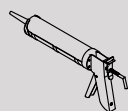
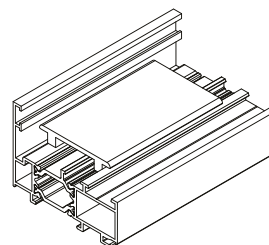
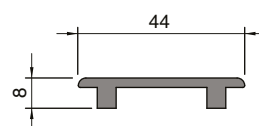
Aplicar mastique de silicone na ligação entre perfis.

TRAVESSAS

A.165

G.004.088 (14mm)**G.004.781 (33,5mm)****G.004.458****G.004.378****G.004.781 (33,5mm)**

Aplicar mastique de silicone na ligação entre perfis.

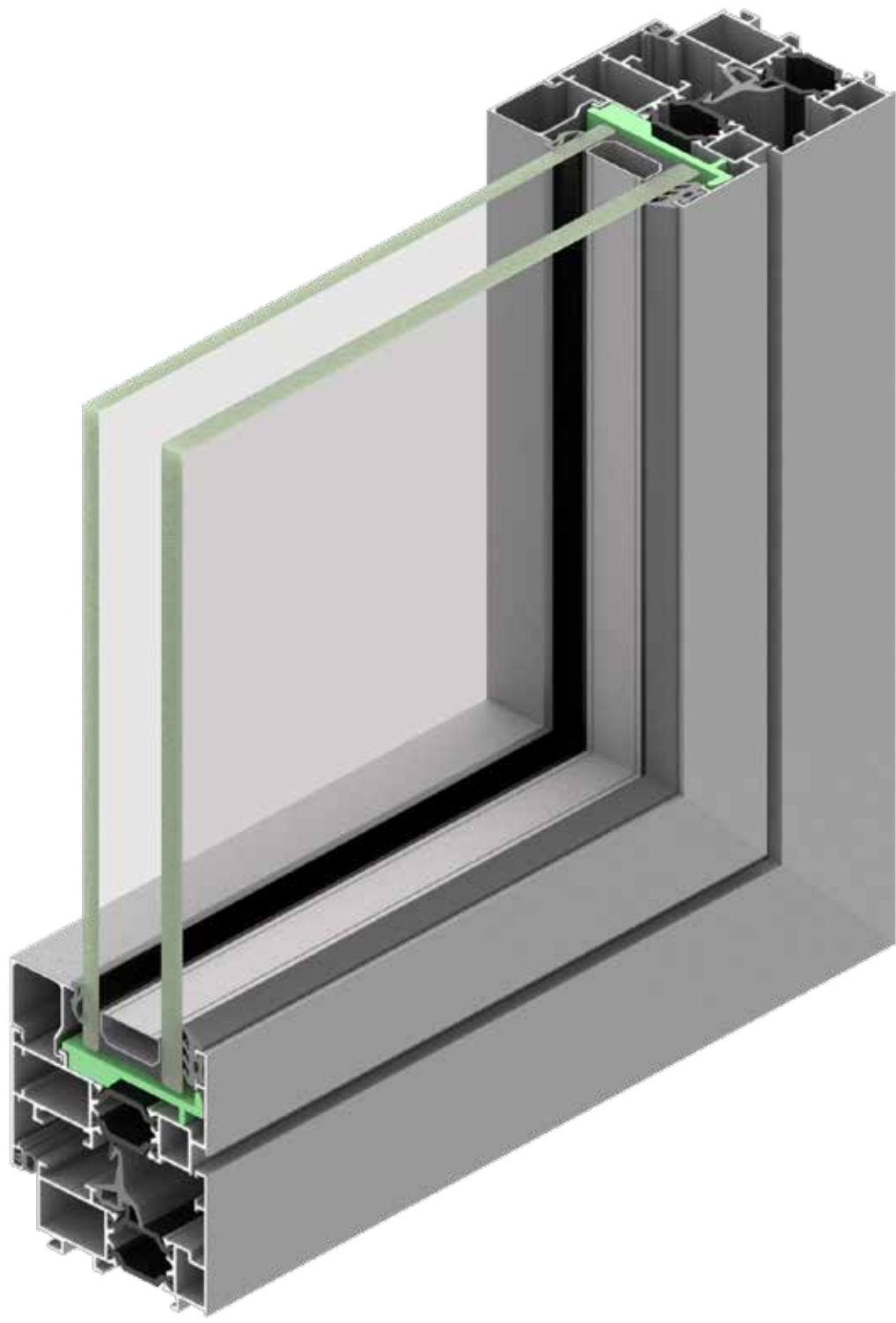
G.001.122

G.001.124

G.015.026 - Aro Móvel

G.015.029 - Aro Fixo


Aplicar mastique de silicone na ligação entre perfis.

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ACESSÓRIOS

sistema de abrir RPT
A.165



Extrusál

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G.001.032

Vedante p/ Pingadeira F.010.124
EPDM



G.001.040

Vedante
EPDM



G.001.047

Vedante Exterior Vidro
EPDM



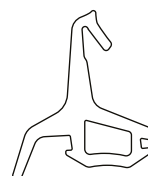
G.001.104

Vedante Interior Vidro
EPDM



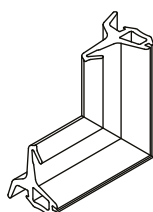
G.001.105

Vedante Interior Vidro
EPDM



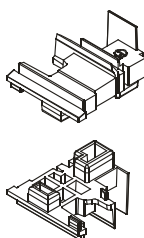
G.001.121

Vedante Central A.100
EPDM



G.001.122

Canto Vulcanizado p/ G.001.121
EPDM



G.001.124

Conjunto Topo p/ A.165.340
EPDM



G.001.132

Vedante Batente - Base Clipar
EPDM



G.001.133

Vedante Batente - Base Rígida
EPDM



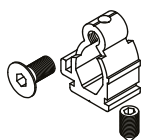
G.001.156

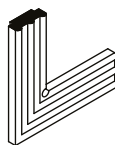
Vedante Soleira
EPDM
Rolo: 30m

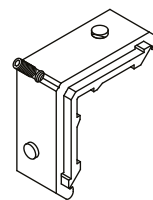


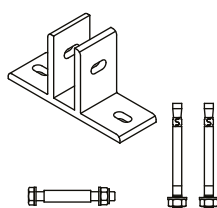
G.002.010

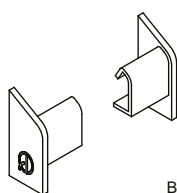
Escova p/ vedação
Comprimento: 2m


G.004.088

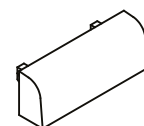
 União Travessa
 14mm
 AL. Extrudido

G.004.091

 Esquadro Alinhamento
 Nylon

G.004.216

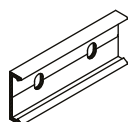
 Esquadro Aperto
 27x14mm
 AL. Extrudido

G.004.378

 Kit Fixação Montante
 Laga Inferior e Superior
 AL. Extrudido

G.004.389

 Topo Pingadeira F.010.140
 (Par)

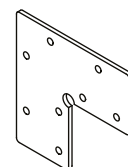
 Branco
 Preto

G.004.408

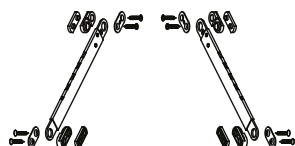
Goteira c/ válvula

 Branco
 Preto

G.004.425

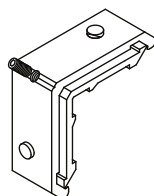
Fixador Pingadeira

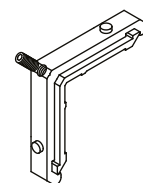

G.004.458

 Peça Fixação de Travessa
 Inox

G.004.483

 Esquadro Alinhamento
 Inox

G.004.523

Compasso Regulável


G.004.764

 Esquadro
 23,5x14,5mm
 AL. Extrudido

G.004.765

 Esquadro
 9,5x11,5mm
 AL. Extrudido

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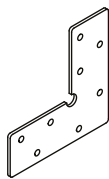
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 134

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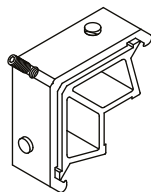
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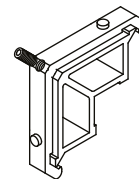
A.165



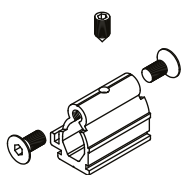
G.004.773
Esquadro Alinhamento
Inox



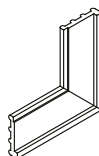
G.004.777
Esquadro
23x24mm
AL. Extrudido



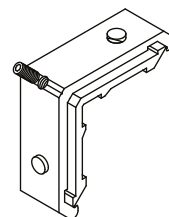
G.004.778
Esquadro
9,5x31 mm
AL. Extrudido



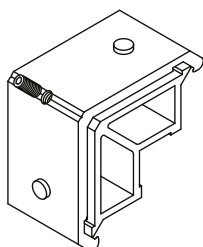
G.004.781
União Travessa
33,5mm
AL. Extrudido



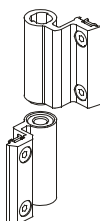
G.004.783
Esquadro Alinhamento
Nylon



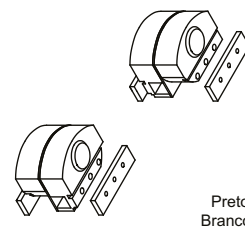
G.004.790
Esquadro
18,5x14,5mm
AL. Extrudido



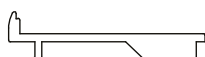
G.004.792
Esquadro
35x29mm
AL. Extrudido



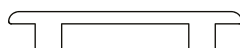
G.004.826
Dobradiça de Porta
120 kg



G.005.017
Jogo Pivotante



G.015.026
Calço p/ Vidro
Folha A.165
Nylon



G.015.029
Calço p/ Vidro
Aro A.165
Nylon



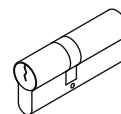
G.018 .011
Fechadura c/
1 Ponto Fecho
(opcional)

**G.018.030**

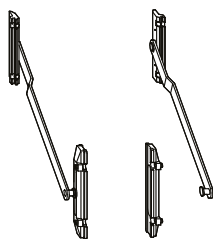
Fechadura c/
3 Ponto Fecho
Testa c/ 1850mm

**G.018.031**

Fechadura c/
3 Ponto Fecho
Testa c/ 2300mm

**G.018.073**

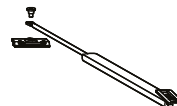
Cilindro EU Segurança
30x60mm

**G.050.126**

Compasso Basculante
70kg

**G.050.127**

Mecanismo Projetante

**G.050.130**

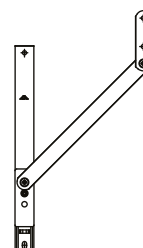
Limitador Abertura

**G.050.234**

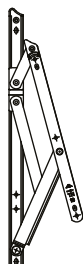
Compasso Projetante 180kg
(1450 - 2500mm)

**G.050.235**

Ajuste
Compasso Projetante

**G.050.236**

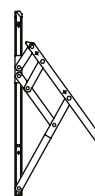
Limitador de Abertura

**G.050.238**

Compasso Projetante 120kg
(1200 - 1800mm)

**G.050.239**

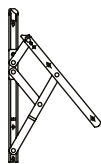
Compasso Projetante 65kg
(750 - 1250mm)

**G.050.240**

Compasso Projetante 21kg
(500 - 780mm)

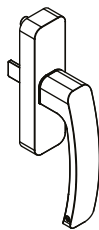
ACESSÓRIOS

A.165



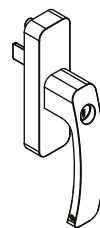
G.050.241

Compasso Projetante 20kg
(350 - 550mm)



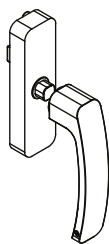
G.052.001

Cremone 1 Garfo



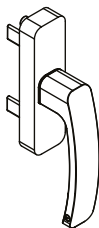
G.052.002

Cremone 1 Garfo
c/ Chave



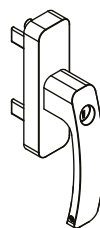
G.052.003

Cremone 1 Garfo de Segurança c/
Punho



G.052.005

Cremone 2 Garfo



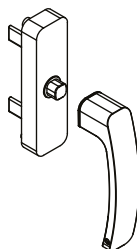
G.052.006

Cremone 2 Garfo
c/ Chave Esq.



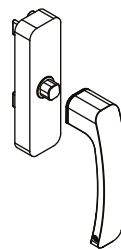
G.052.007

Cremone 2 Garfo
c/ Chave Dir.



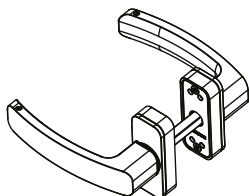
G.052.008

Cremone 2 Garfo de Segurança Esq.



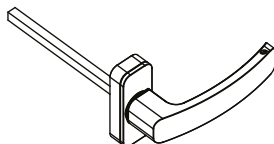
G.052.009

Cremone 2 Garfo de Segurança Dir.



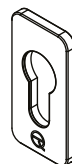
G.052.010

Par de muletas
c/ mola de recuperação



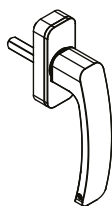
G.052.011

Muleta
c/ mola de recuperação



G.052.012

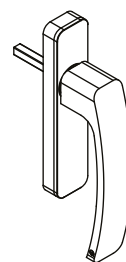
Espelho Cilindro



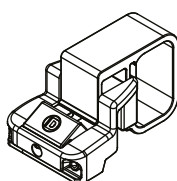
G.052.013
 Manete 3 Posições
 Quadra de 7x36mm



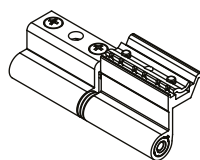
G.052.014
 Manete 3 Posições
 c/ Chave
 Quadra de 7x36mm



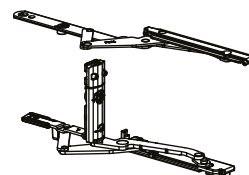
G.052.024
 Manete 3 Posições
 Oscilo-Paralela



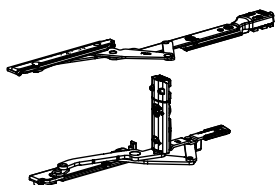
G.052.031
 Fecho Bandeira
 c/ Ajustagem



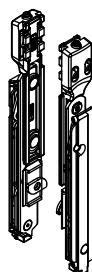
G.052.032
 Dobradiça CE



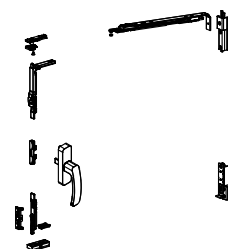
G.052.033
 Dobradiça Oculta
 180 kg Esq.



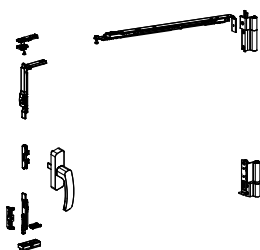
G.052.034
 Dobradiça Oculta
 180 kg Dir.



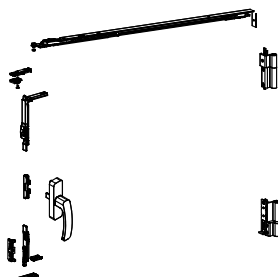
G.052.035
 Kit Dobradiça
 Basculante Oculta
 160 kg



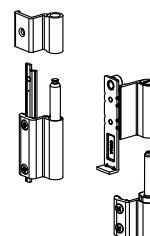
G.052.036
 Kit OB
 110 kg 402 - 750 mm



G.052.037
 Kit OB
 110 kg 562 - 1200 mm



G.052.038
 Kit OB
 110 kg 816 - 1600 mm



G.052.039
 Par Dobradiças
 110 kg

 Produto
 6

 Características Técnicas
 8

 Perfis
 18

 Seções
 44

 Tipologias Construtivas
 66

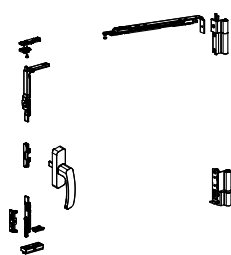
 Instruções Fabrico
 134

 Instruções Montagem
 142

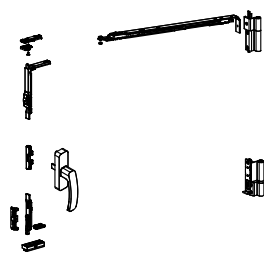
 Acessórios
 148

ACESSÓRIOS

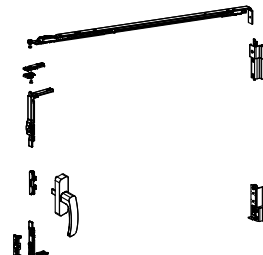
A.165



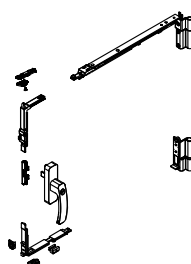
G.052.040
Kit OB
130 kg 402 - 750 mm



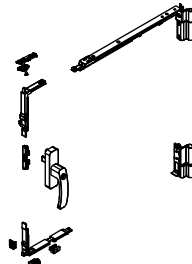
G.052.041
Kit OB
130 kg 562 - 1200 mm



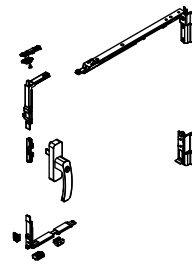
G.052.042
Kit OB
130 kg 816 - 1600 mm



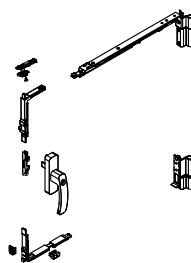
G.052.044
Kit OB Man. Lógica
110 kg 402 - 750 mm Esq.



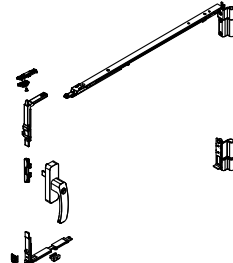
G.052.045
Kit OB Man. Lógica
110 kg 402 - 750 mm Dir.



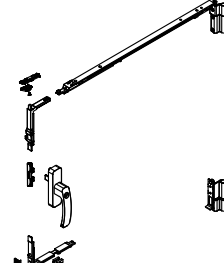
G.052.046
Kit OB Man. Lógica
110 kg 562 - 1200 mm Esq.



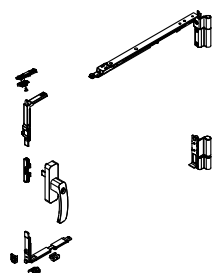
G.052.047
Kit OB Man. Lógica
110 kg 562 - 1200 mm Dir.



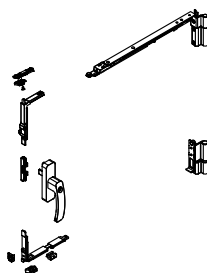
G.052.048
Kit OB Man. Lógica
110 kg 816 - 1600 mm Esq.



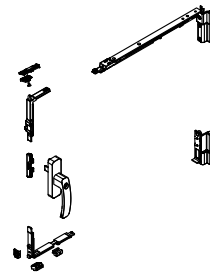
G.052.049
Kit OB Man. Lógica
110 kg 816 - 1600 mm Dir.



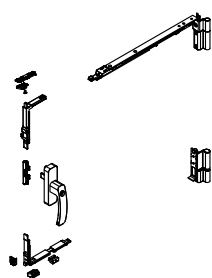
G.052.050
Kit OB Man. Lógica
130 kg 402 - 750 mm Esq.



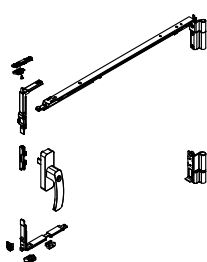
G.052.051
Kit OB Man. Lógica
130 kg 402 - 750 mm Dir.



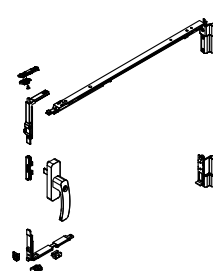
G.052.052
Kit OB Man. Lógica
130 kg 562 - 1200 mm Esq.



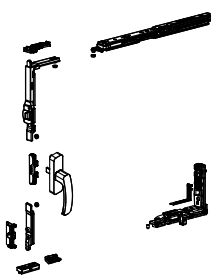
G.052.053
Kit OB Man. Lógica
130 kg 562 - 1200 mm Dir.



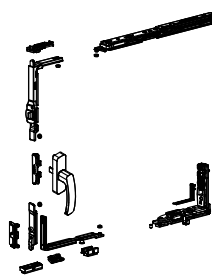
G.052.054
Kit OB Man. Lógica
130 kg 816 - 1600 mm Esq.



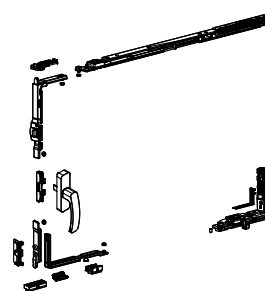
G.052.055
Kit OB Man. Lógica
130 kg 816 - 1600 mm Dir.



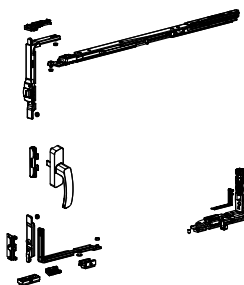
G.052.056
Kit OB Oculto
180 kg 422 - 900 mm Esq.



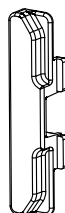
G.052.057
Kit OB Oculto
180 kg 422 - 900 mm Dir.



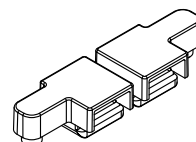
G.052.058
Kit OB Oculto
180 kg 700 - 1700 mm Esq.



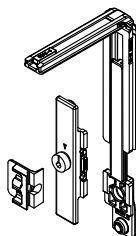
G.052.059
Kit OB Oculto
180 kg 700 - 1700 mm Dir.



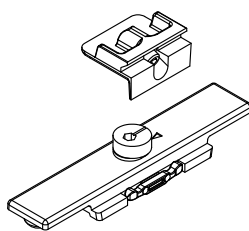
G.052.060
Transmissão
Cremone 1 Garfo



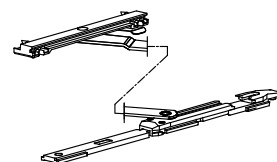
G.052.061
Transmissão
Cremone 2 Garfos



G.052.062
Ângulo de Reenvio Suplementar c/
Fecho



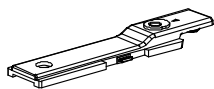
G.052.063
Ponto Fecho
Intermediário



G.052.064
Compasso Suplementar OB
L > 1400mm

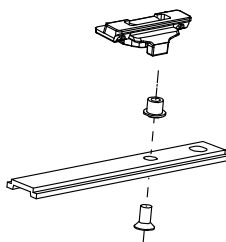
ACESSÓRIOS

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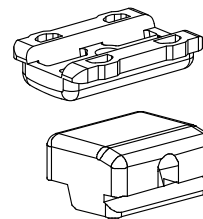
G.052.065

Peça Ligação
G.052.064



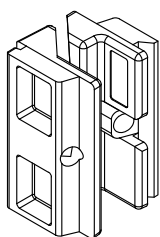
G.052.066

Kit Micro Ventilação



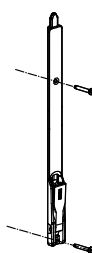
G.052.067

Suporte Folha



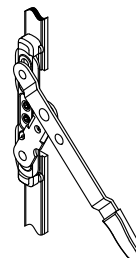
G.052.068

Limitador Flecha



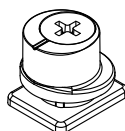
G.052.070

Fecho Segunda Folha
c/ Alavanca



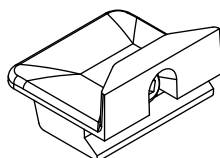
G.052.071

Fecho Bidirecional



G.052.072

Ponto Fecho
Folha



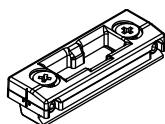
G.052.073

Ponto Fecho
Aro



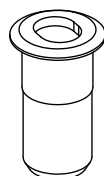
G.052.074

Fecho Ponteira
Folha



G.052.075

Engate Duplo
Aro



G.052.076

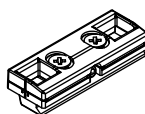
Ponto Fecho
Pavimento
(8x10mm)

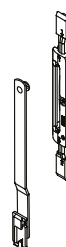


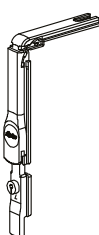
G.052.081

Fecho
Segunda Folha
Nylon

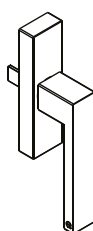

G.052.082

 Fecho Ponteira
 Folha
 Nylon

G.052.083

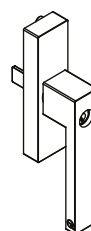
 Engate Simples
 Aro

G.052.091

 Compasso basculante
 c/ transmissão

G.052.092

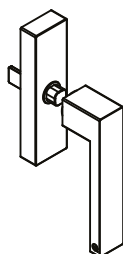
Ângulo de reenvio

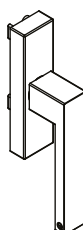

G.052.101

Cremone 1G

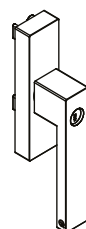

G.052.102

Cremone 1G c/ chave

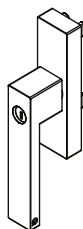

G.052.103

 Cremone 1 garfo
 (segurança c/ punho)

G.052.105

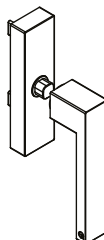
Cremone 2G

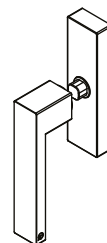

G.052.106

Cremone 2G c/ chave esq.


G.052.107

Cremone 2G c/ chave dir.


G.052.108

 Cremone 2G segurança
 c/ punho esq.

G.052.109

 Cremone 2G segurança
 c/ punho dir.

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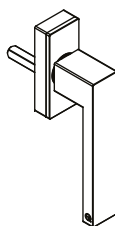
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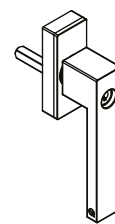
A.165



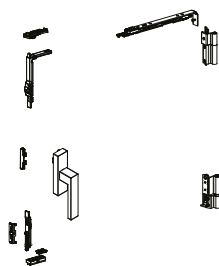
G.052.112
Espelho de Cilindro



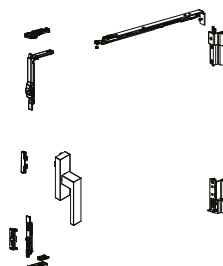
G.052.113
Manete 3 posições
c/ Q7x36mm



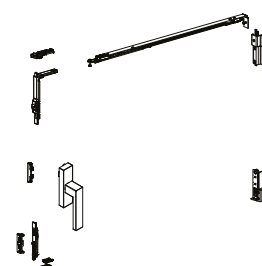
G.052.114
Manete 3 posições
c/ Q7x36mm e chave



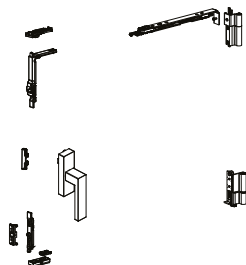
G.052.136
Kit OB 110 kg
402 - 750 mm



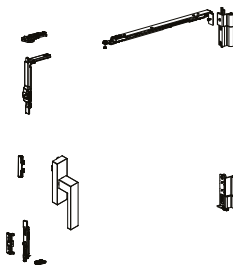
G.052.137
Kit OB 110 kg
562 - 1200 mm



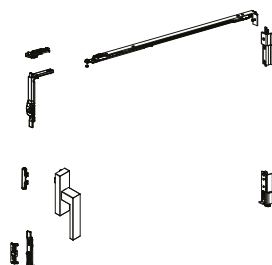
G.052.138
Kit OB 110 kg
816 - 1600 mm



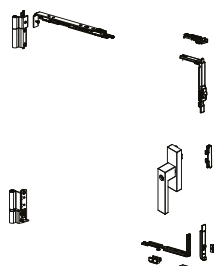
G.052.140
Kit OB 130 kg
402 - 750 mm



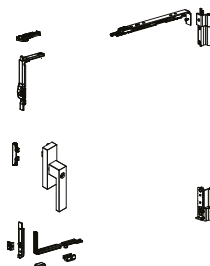
G.052.141
Kit OB 130 kg
562 - 1200 mm



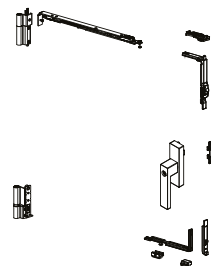
G.052.142
Kit OB 130 kg
816 - 1600 mm



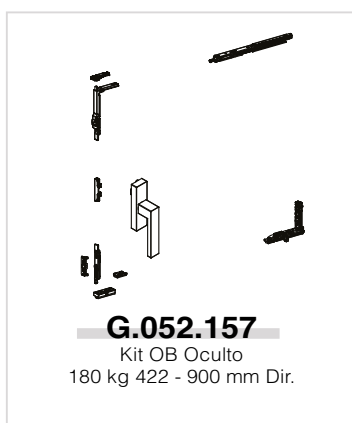
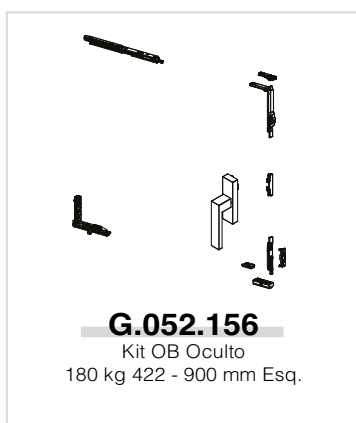
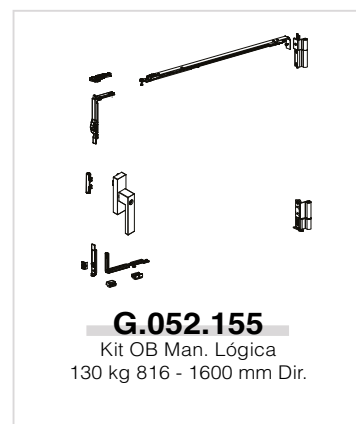
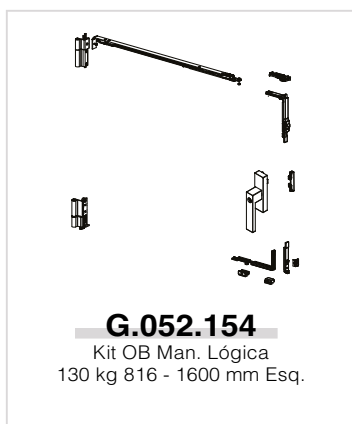
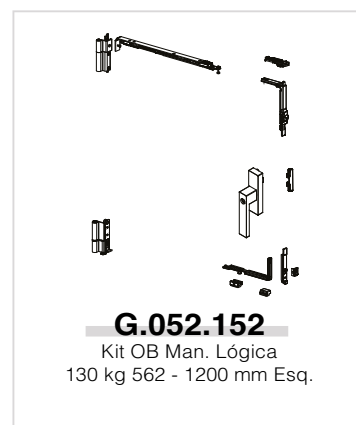
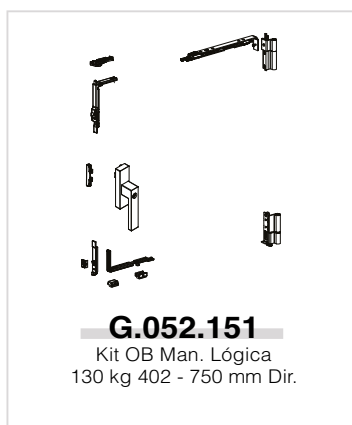
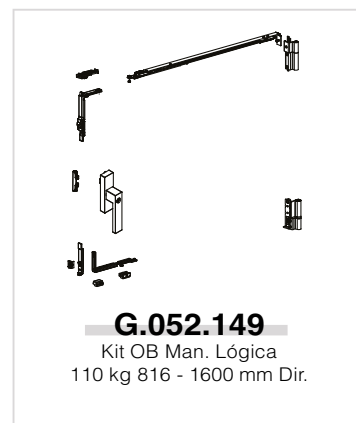
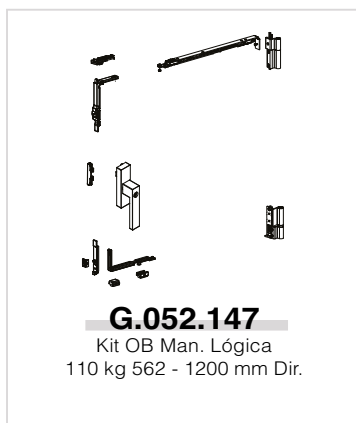
G.052.144
Kit OB Man. Lógica
110 kg 402 - 750 mm Esq.



G.052.145
Kit OB Man. Lógica
110 kg 402 - 750 mm Dir.



G.052.146
Kit OB Man. Lógica
110 kg 562 - 1200 mm Esq.


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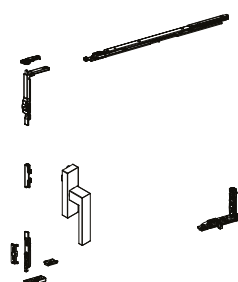
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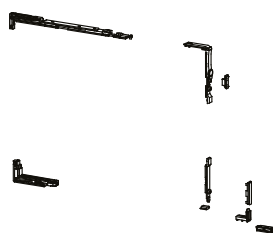
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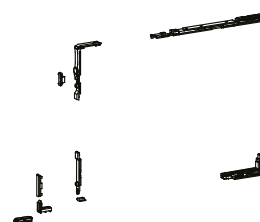
A.165



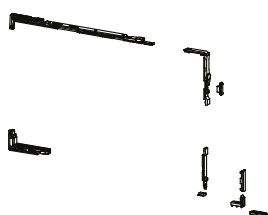
G.052.159
Kit OB Oculto
180 kg 700 - 1700 mm Dir.



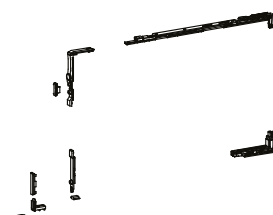
G.053.020
Kit OB Oculto
120 kg 515 - 655 mm Esq.



G.053.021
Kit OB Oculto
120 kg 515 - 655 mm Dir.



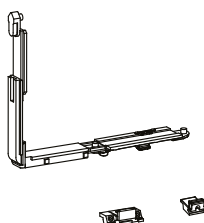
G.053.022
Kit OB Oculto
120 kg 655 - 1300 mm Esq.



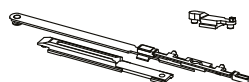
G.053.023
Kit OB Oculto
120 kg 655 - 1300 mm Dir.



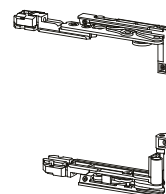
G.053.024
Ponto de Fecho
(Adicional Vertical)



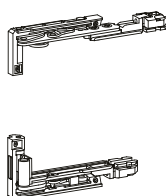
G.053.025
Ponto de Fecho
(Adicional Horizontal)



G.053.026
Compasso Suplementar
(L < 950mm)



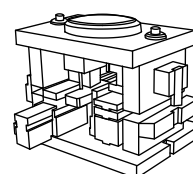
G.053.027
Dobradiça Oculta
120 kg Esq.



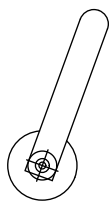
G.053.028
Dobradiça Oculta
120 kg Dir.



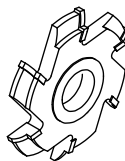
G.053.029
Kit Fecho Bidirecional



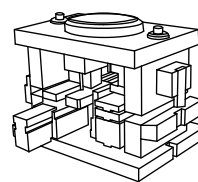
G.007.063
Cortante



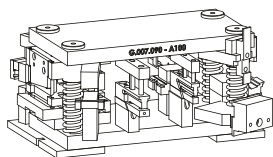
G.007.065
 Roldana p/ Montagem
 G.001.121



G.007.070
 Conjunto Fresas
 Entalhe p/ Travessa



G.007.075
 Cortante
 União Travessa e Cavilha



G.007.090
 Cortante Geral

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