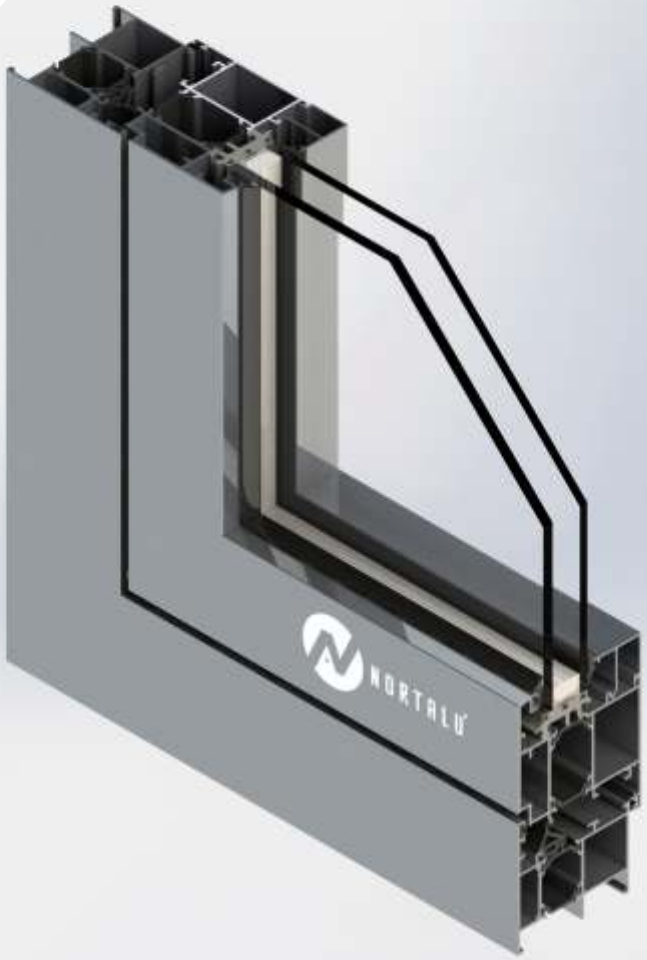
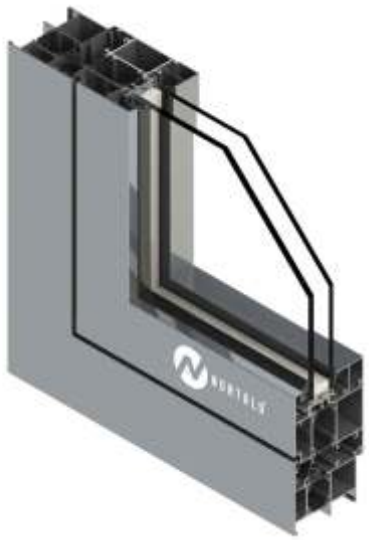
NORTALU®

www.nortalu.pt



SÉRIE R65



SÉRIE R65

SISTEMA BATENTE RUTURA TÉRMICA 65mm

Sistema de batente com rutura térmica de 65mm, tecnicamente desenvolvida para obtenção de excelentes resultados térmicos e acústicos. De acordo com o normativo de uniformização, permitem a utilização de uma vasta gama de acessórios de alta qualidade. A série é constituída por perfis de formas retas, curvas e distingue-se pela sua robustez, permitindo vãos de grandes dimensões, mantendo, no entanto, a combinação entre rigor técnico e a harmonia estética na construção para a arquitetura por se tratar de uma série com várias opções.

Resultados do Ensaio Tipo Inicial:

Tipo Ensaio	Resultados
Permeabilidade ao Ar	C4
Estanquidade à Água	E1200
Resistência à Pressão do Vento	C5
Durabilidade Mecânica	-
Coeficiente de Transmissão Térmica	1,40
Desempenho Acústico	36

Janela com perfis de alumiínio do Sistema R65 composta por duas folhas móveis de abrir com oscilo-batente.

Dimensão:

1400x1200mm.

Soluções Construtivas:

- Fixos
- Batente
- Oscilo-batente
- Basculante
- Projetante
- Oscilo-paralela
- Harmónio

Capacidade de Vidro:

- Vidro Duplo 12 a 43mm

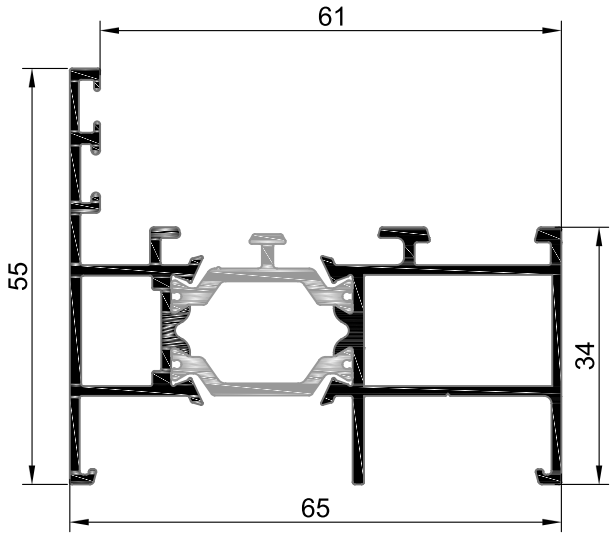
Vedantes:

- Material em EPDM ou PVC em conformidade com anorma aplicável.

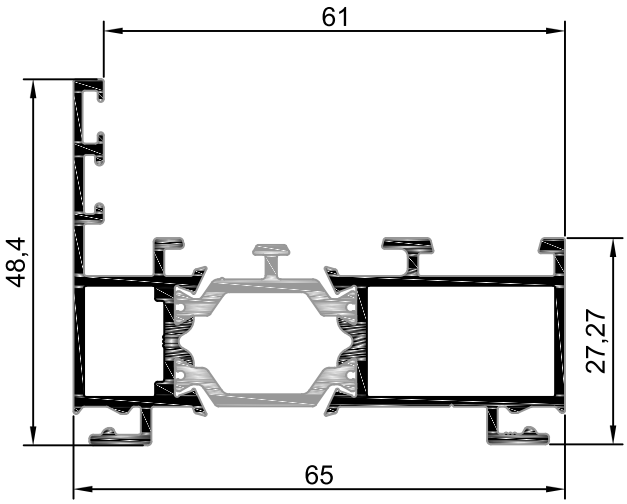
Acessórios:

- Materiais em alumínio, zamac, aço inox e nylon em conformidade com a norma aplicável.

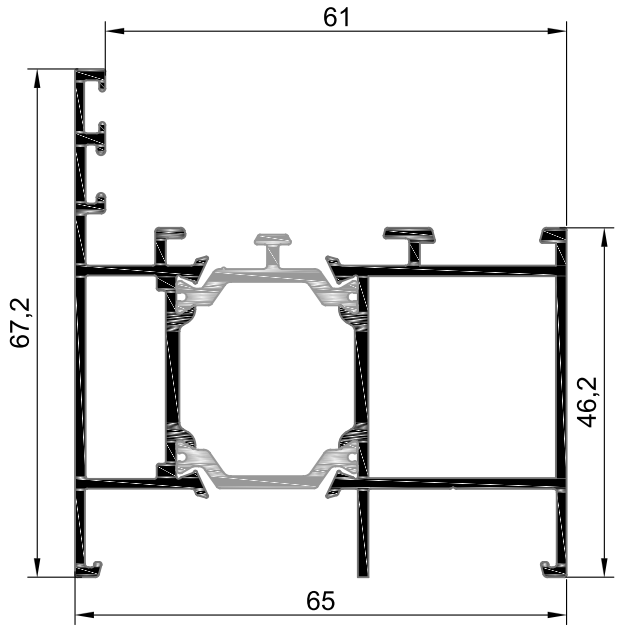
R65.01 *Aro Fixo*



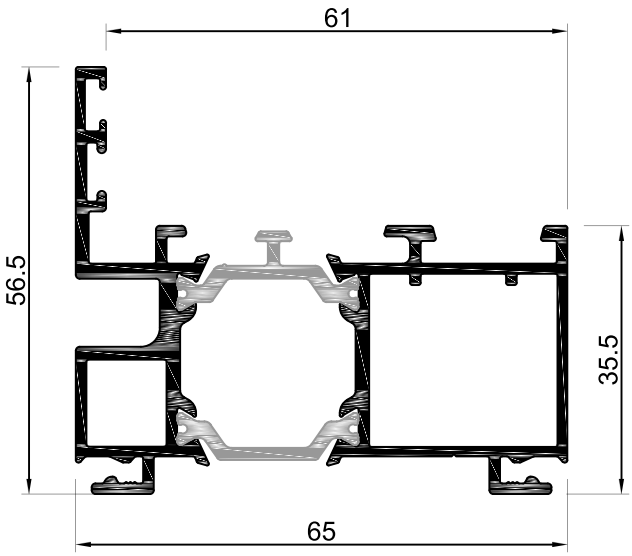
R65.04 *Aro Fixo*



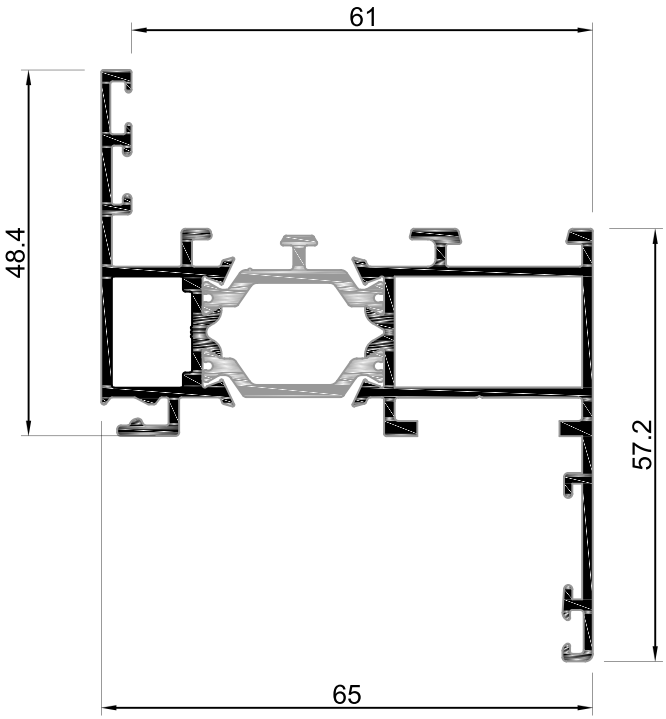
R65.03 *Aro Fixo*



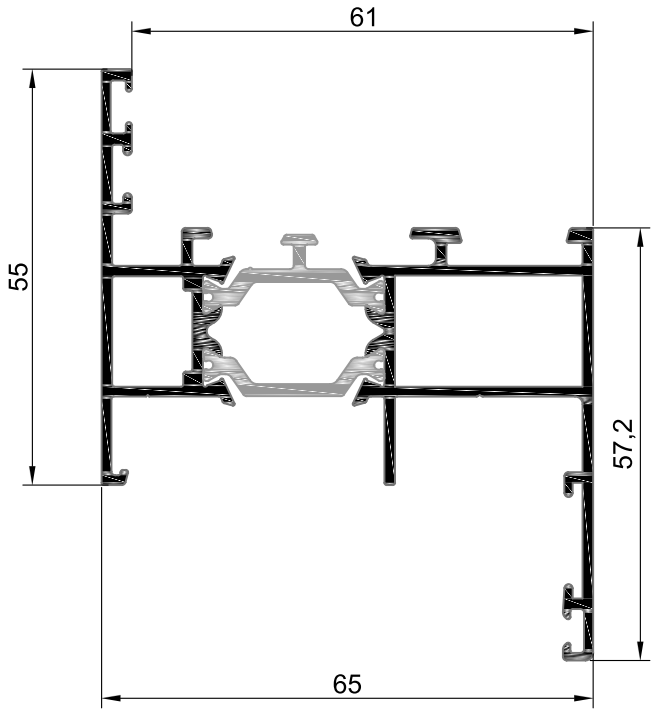
R65.05 *Aro Fixo C/ Goteira Oculta*



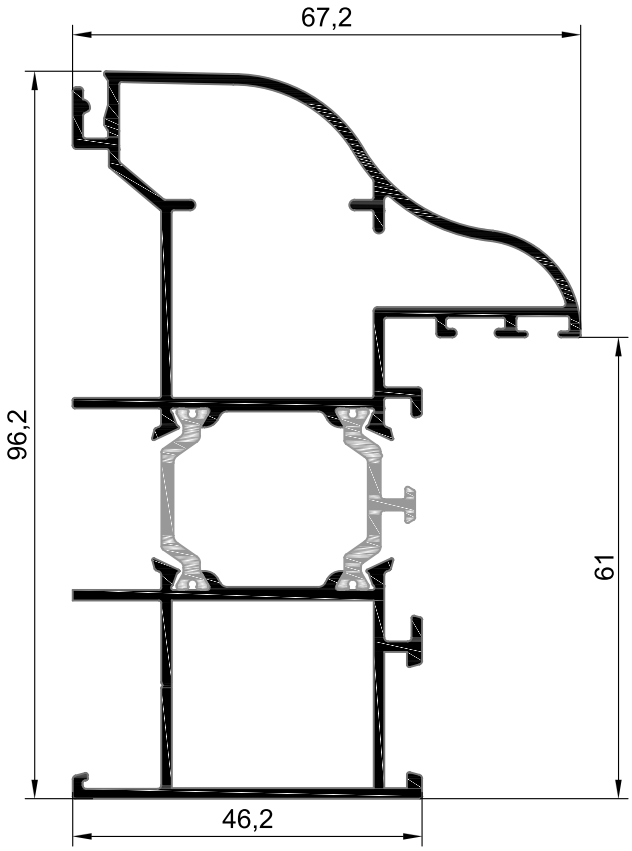
R65.02 *Aro Fixo*



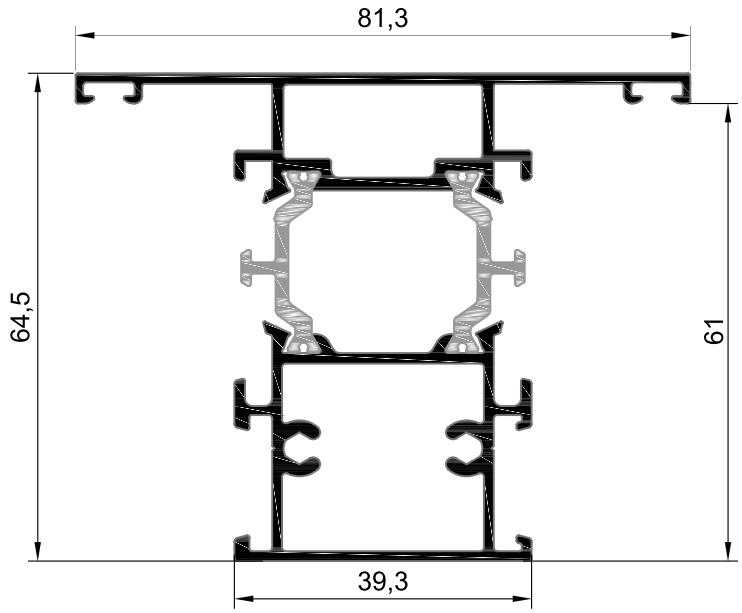
R65.07 *Aro Fixo C/ Remate*



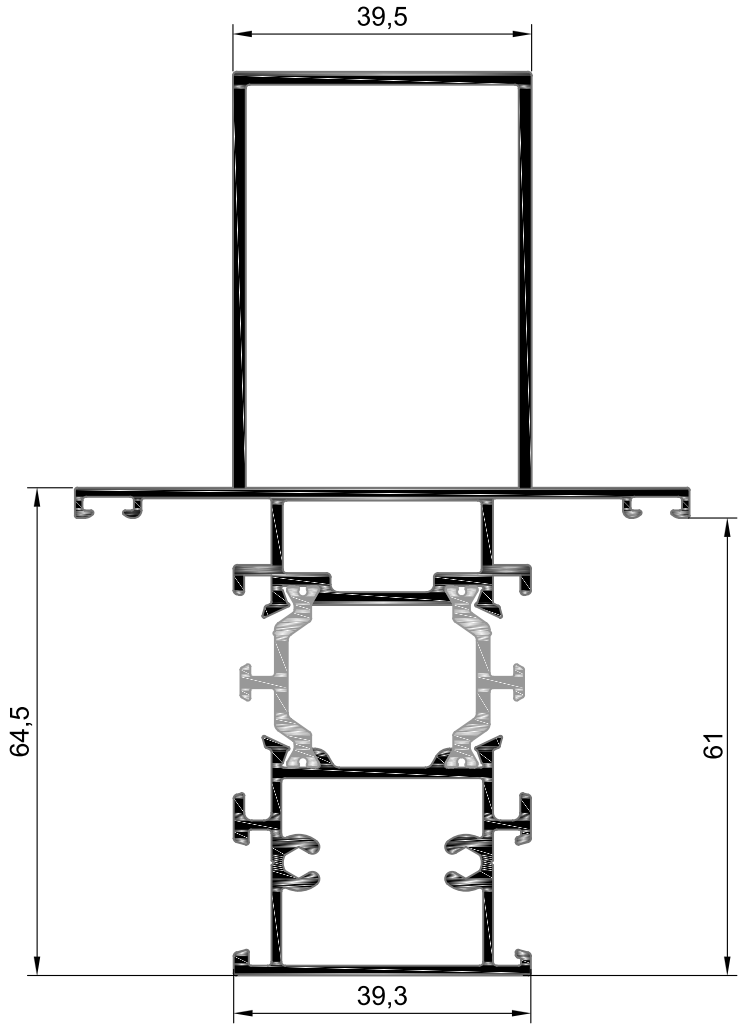
R65.10 *Aro Fixo Tradição*



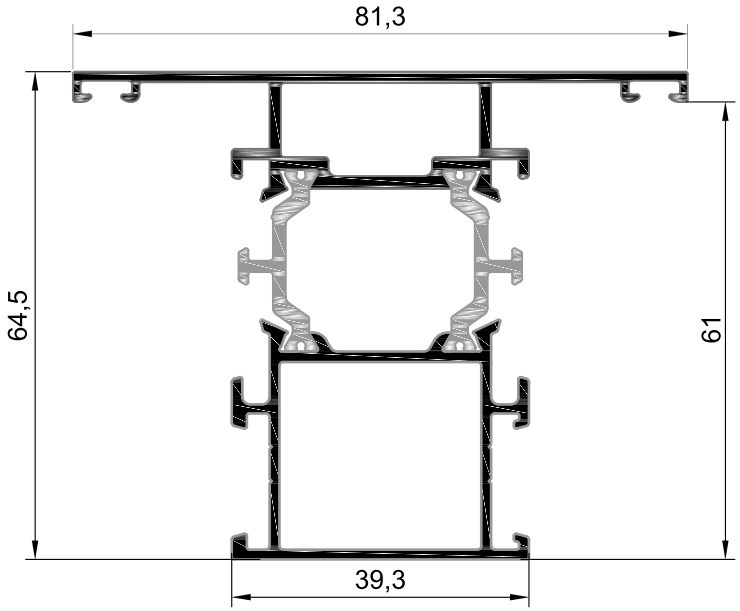
R65.13 *Travessa*

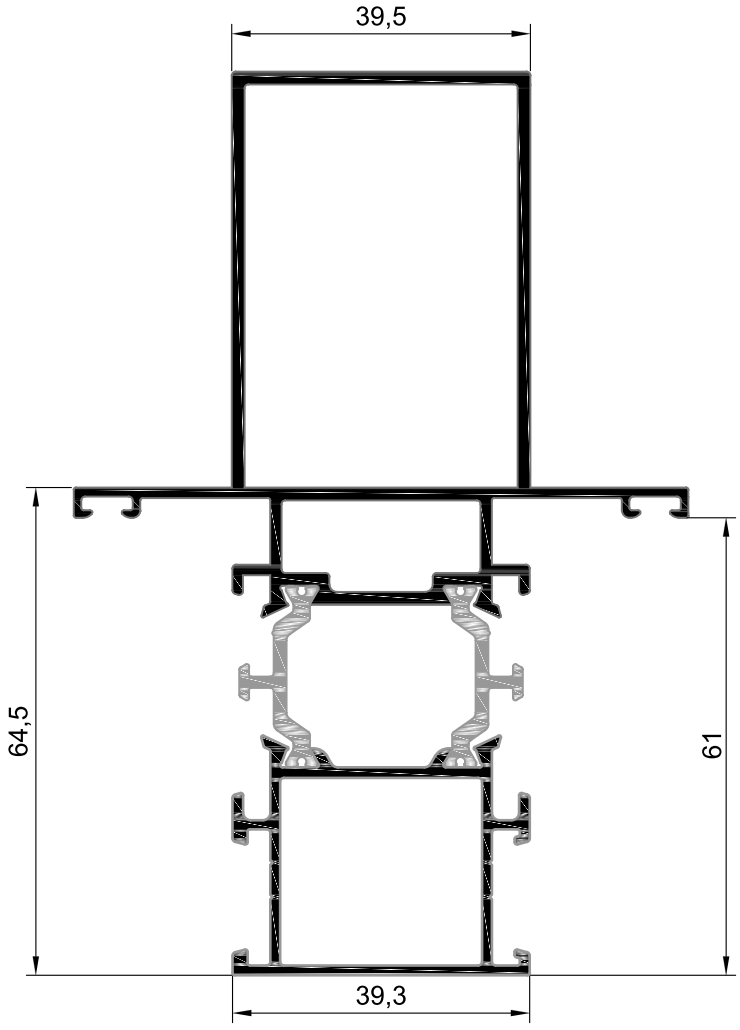


R65.19 *Montante*



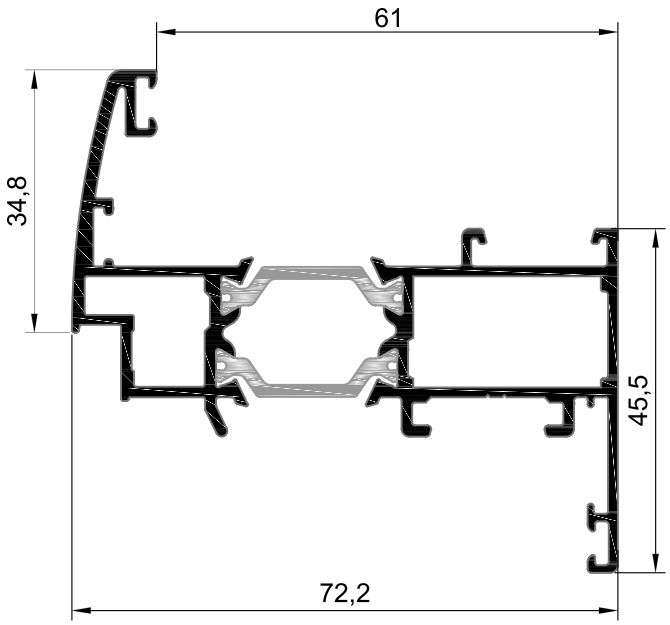
R65.11 *Travessa*



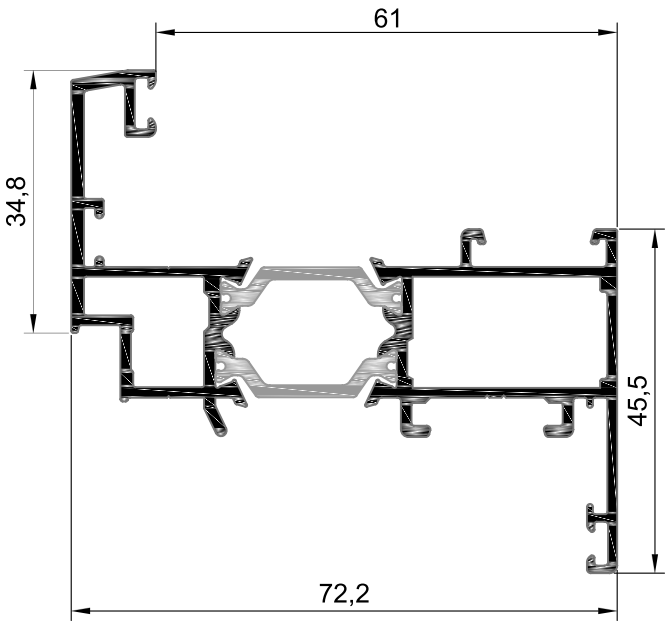


R65.19A *Montante*

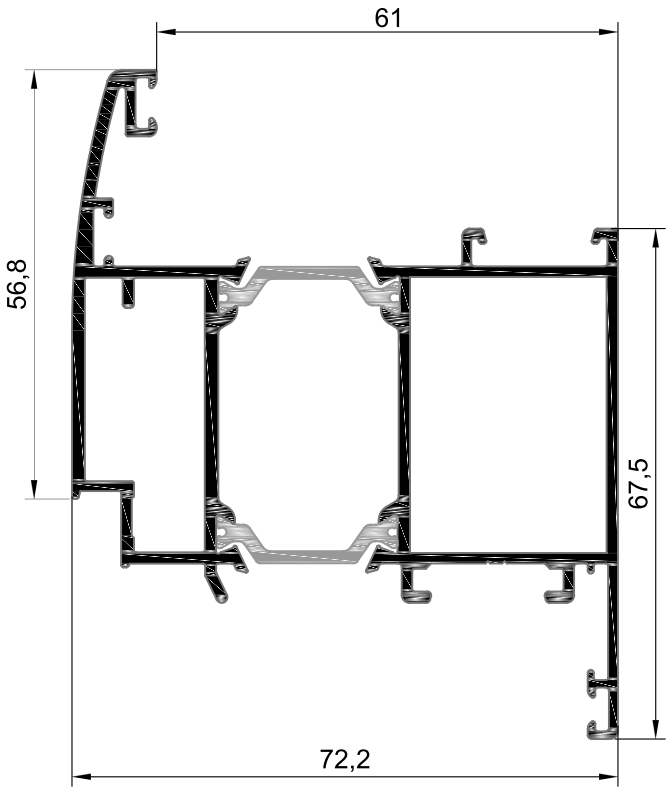
R65.21 *Aro Móvel*



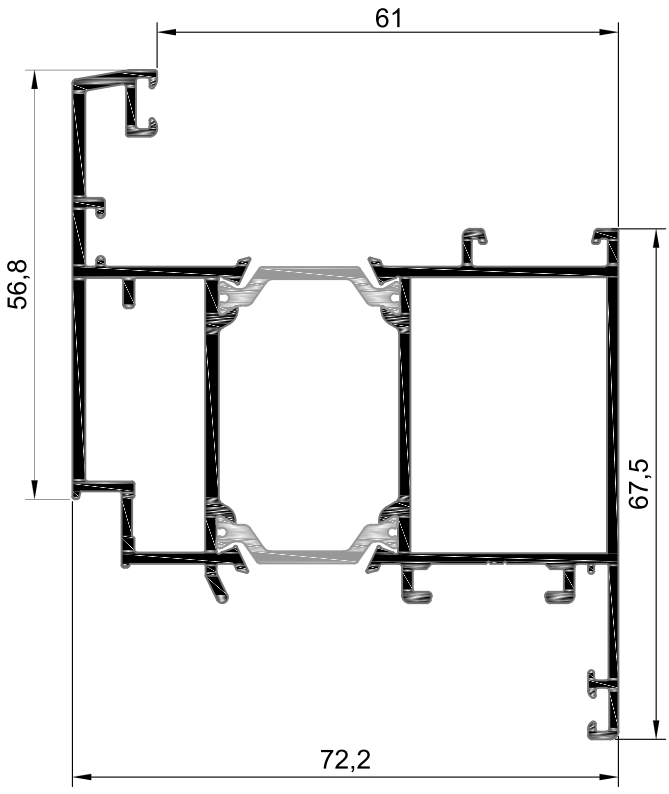
R65.22 *Aro Móvel*



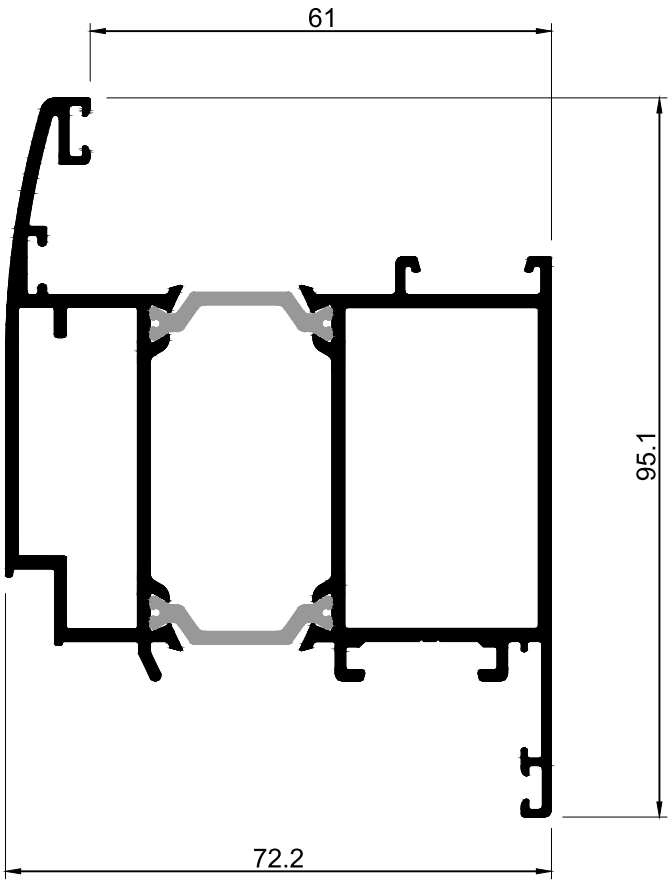
R65.31 *Aro Móvel*



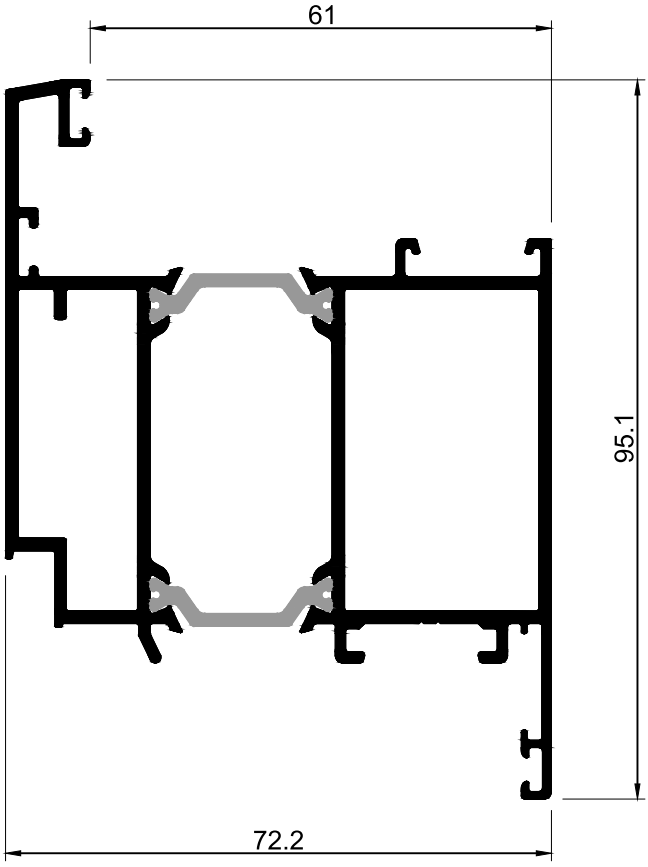
R65.32 *Aro Móvel*



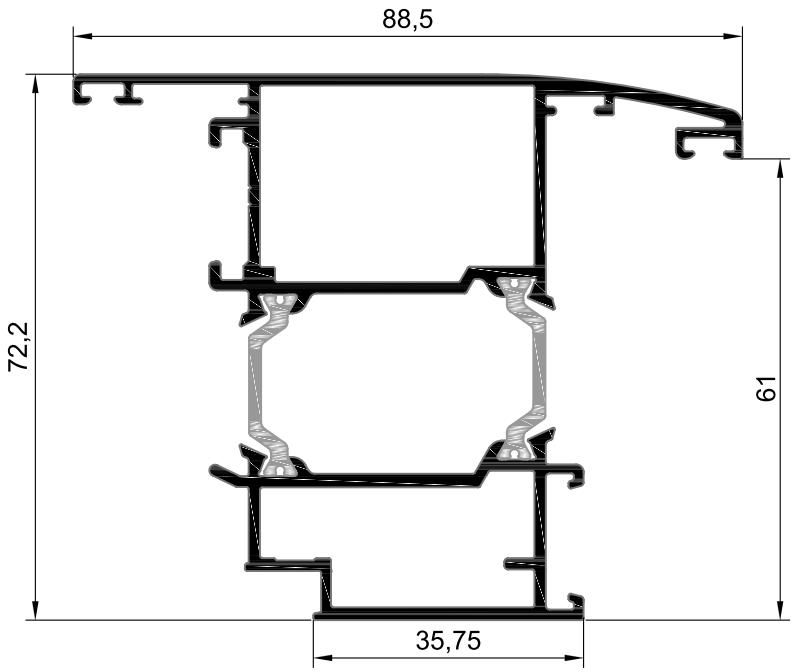
R65.36 *Aro Móvel*



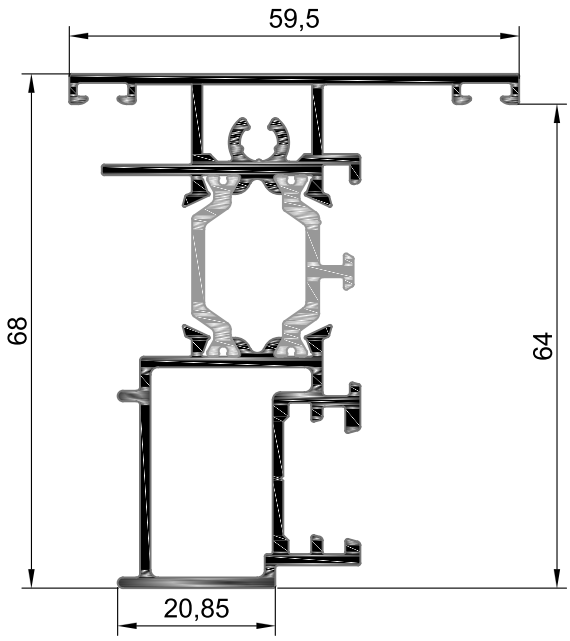
R65.38 *Aro Móvel*



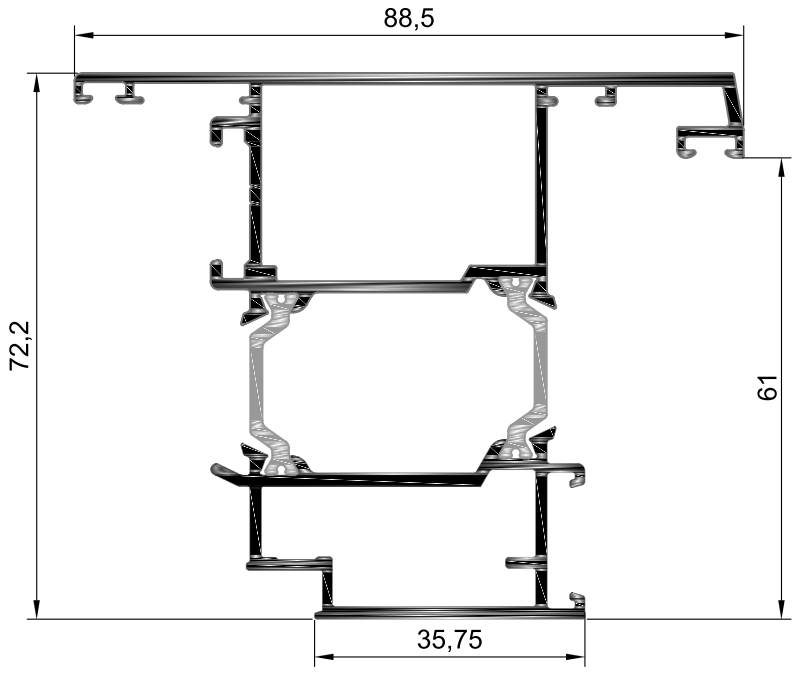
R65.33 *Aro Móvel Abt. P/ Exterior*



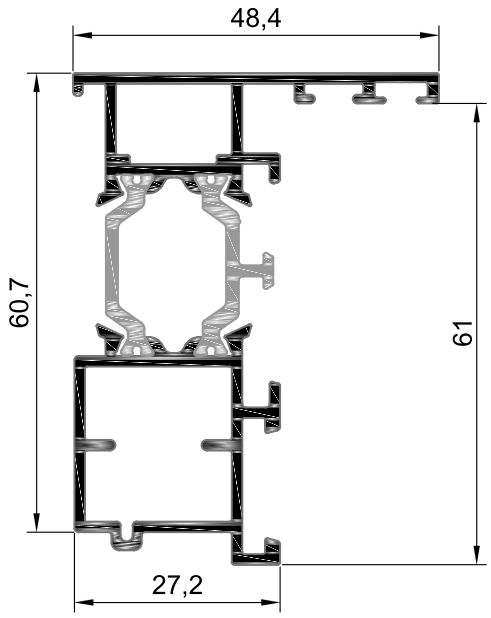
R65.71 *Inversor*



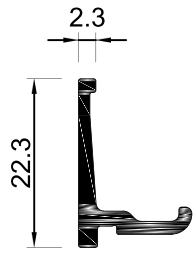
R65.34 *Aro Móvel Abt. P/ Exterior*



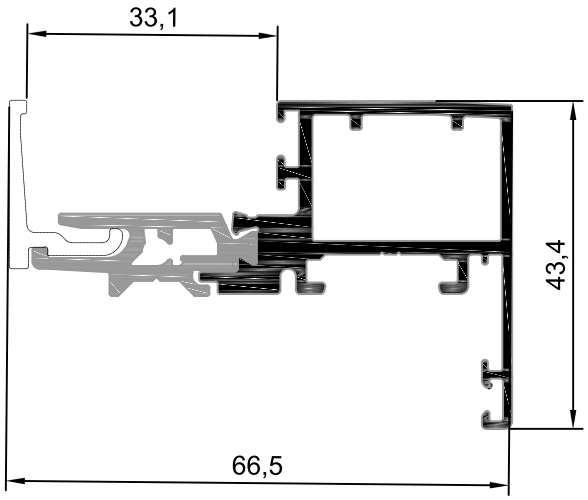
R65.74 *Inversor Aro Fixo*



AP.65 *Bite folha oculta*

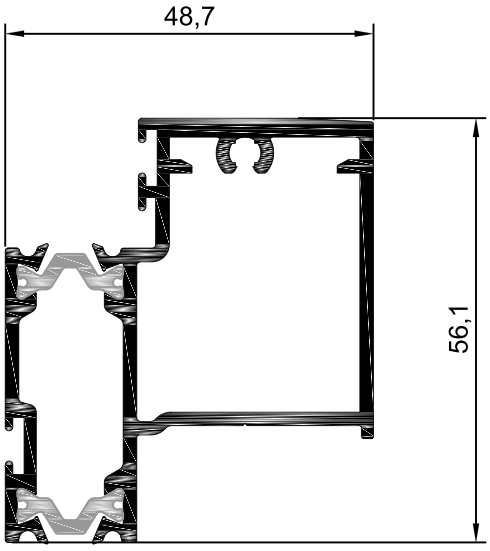


R65.23 *Aro Móvel Folha Oculta*

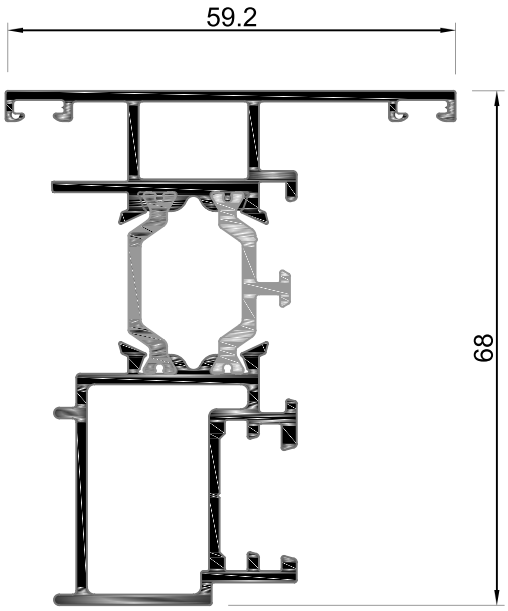


R65.91 *Aro Móvel Folha Oculta*

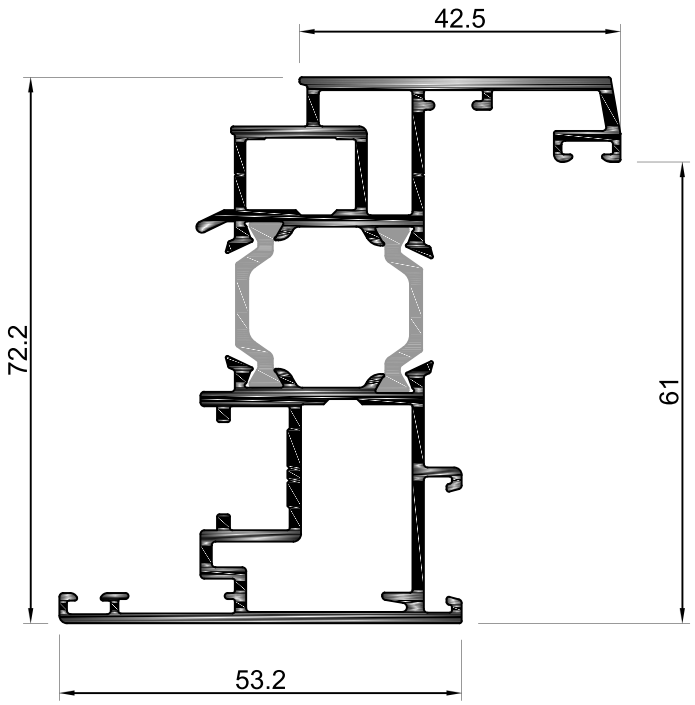
(Aplicação para Portas Entrada)



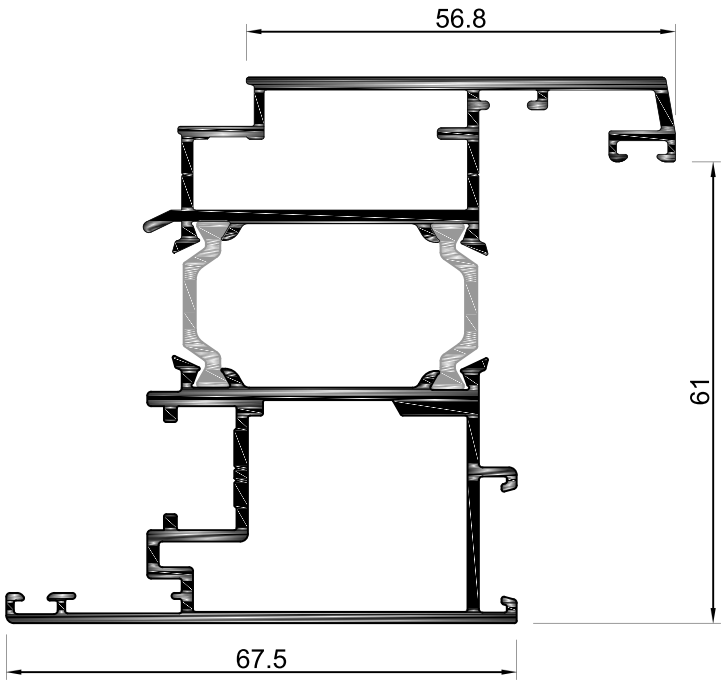
R65.72 *Inversor Folha Oculta*



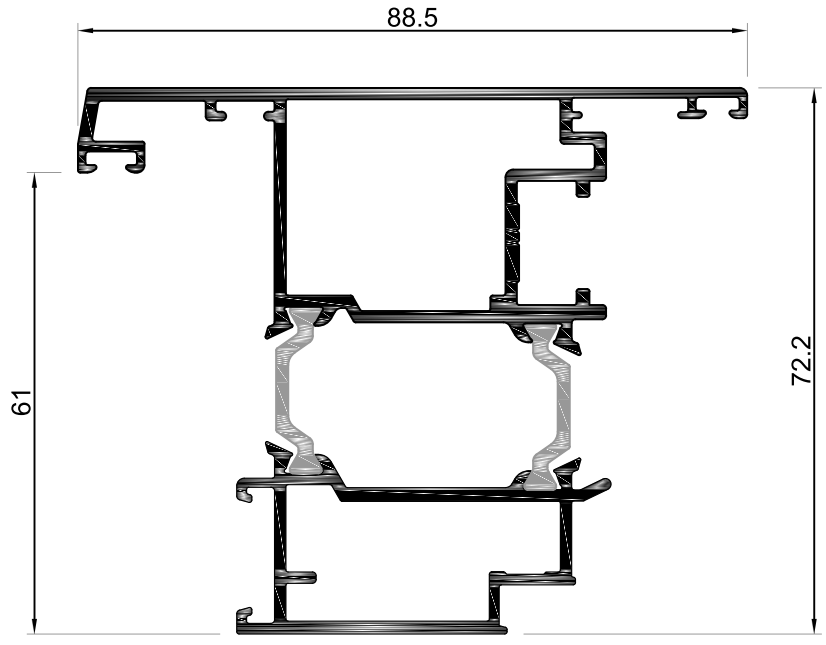
R65.25 *Aro Móvel Canal 16*



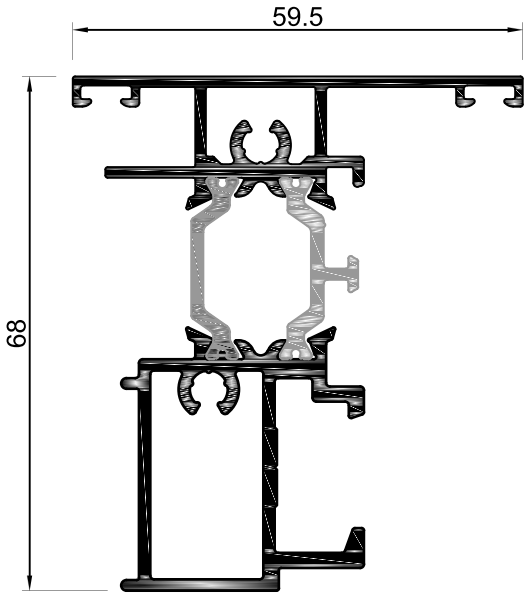
R65.35 *Aro Móvel Canal 16*

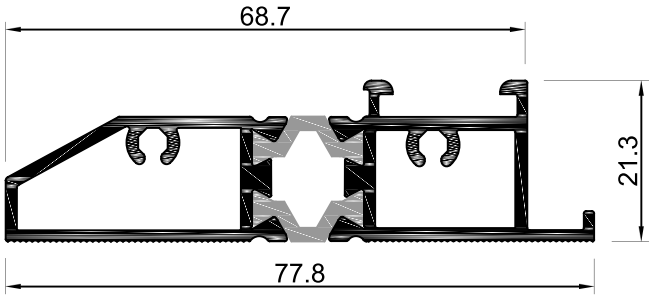


R65.37 *Aro Móvel Abt. Exterior Canal 16*

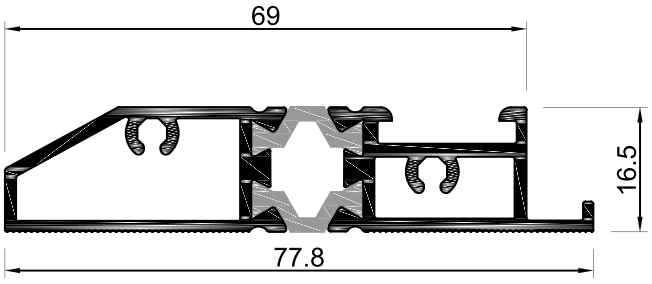


R65.73 *Inversor Canal 16*

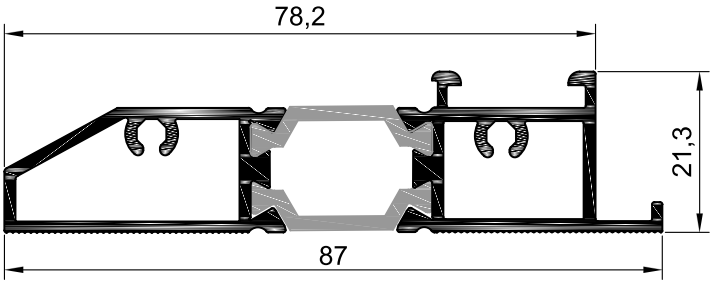




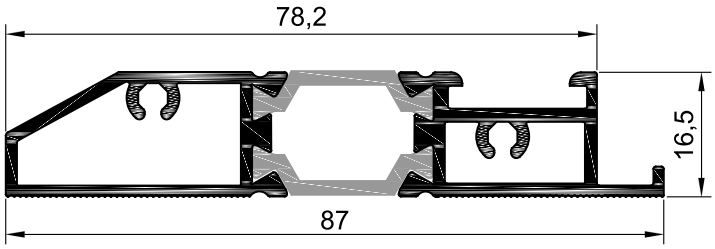
RQ.92 *Remate Soleira*



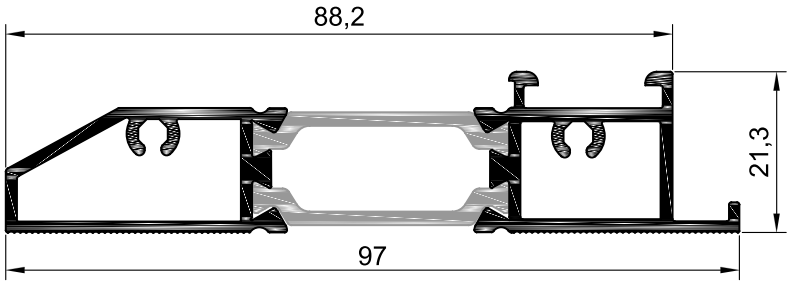
RQ.92A *Remate Soleira*



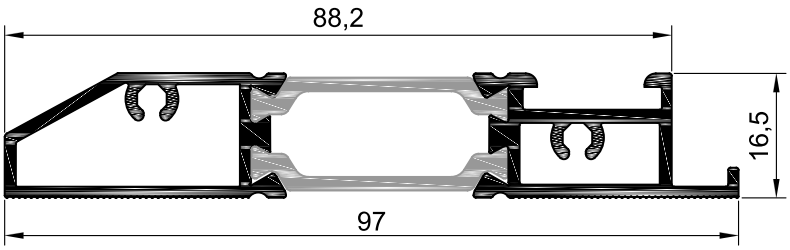
RS.92 *Remate Soleira*



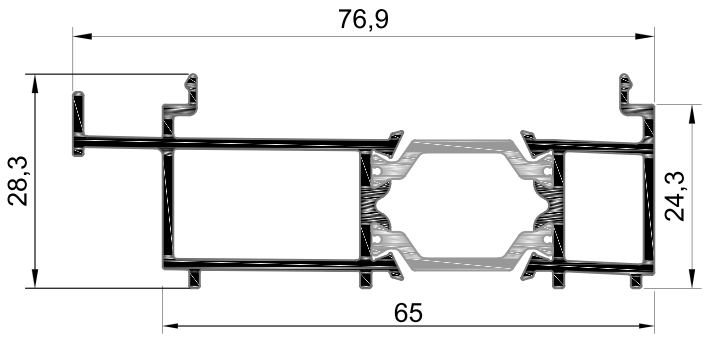
RS.92A *Remate Soleira*



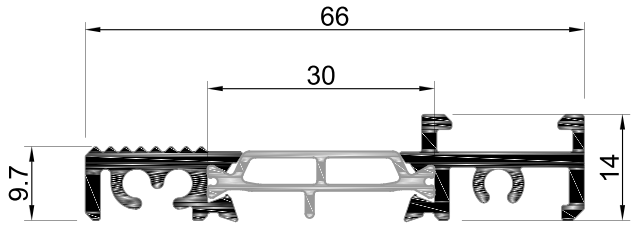
R75.92 *Remate Soleira*



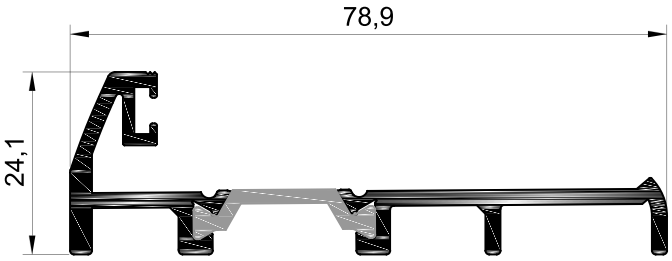
R75.92A *Remate Soleira*



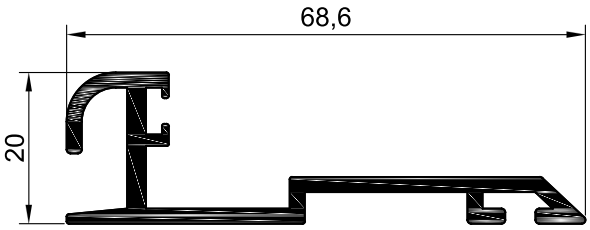
R65.81 *Soleira Condensação*



LT.34 *Remate Soleira*

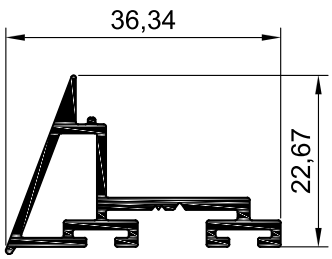


RQ.90 *Remate Soleira*

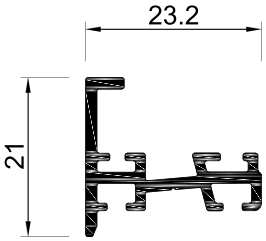


RQ.85 *Remate Soleira*

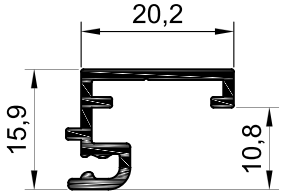
AQ.99 *Bite Inferior Vedação*



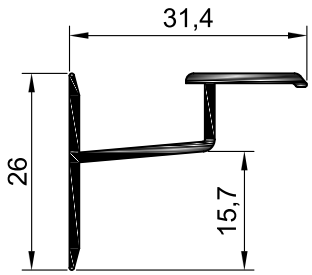
IT.33 *Bite Inferior Vedação*



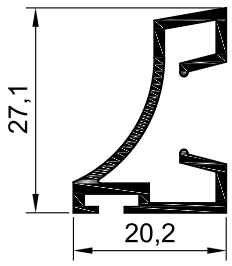
R65.94 *Remate*



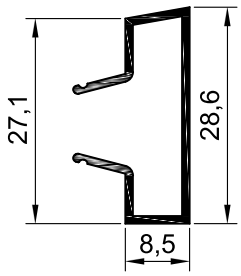
AQ.87 *Soleira Condensação*



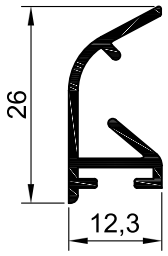
AQ.96 *Pingadeira*



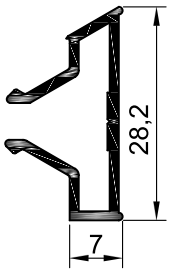
AQ.97 *Clip de Pingadeira*



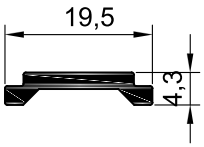
AQ.96A *Pingadeira*



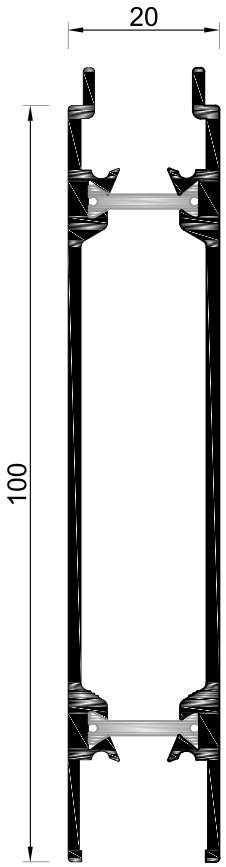
AQ.97A *Clip de Pingadeira*



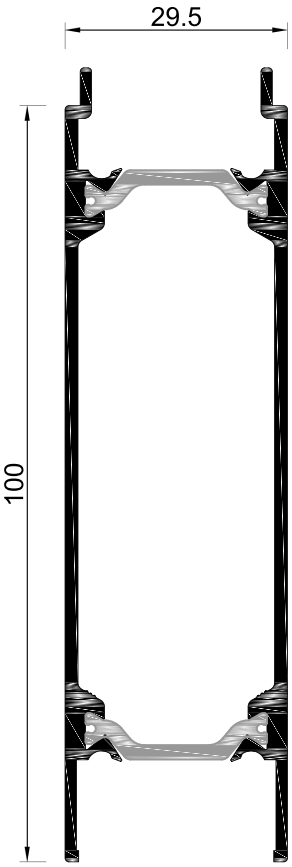
AQ.94 *Vareta Cremone*



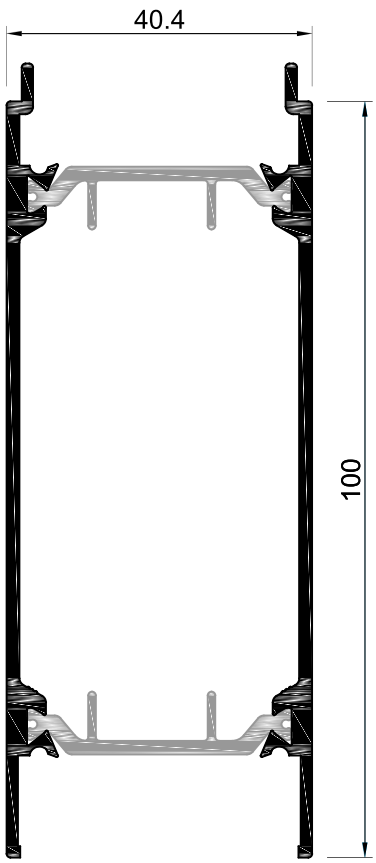
R55.131 *Enchimento*



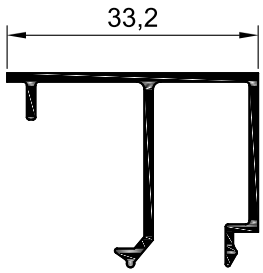
R65.131 *Enchimento*



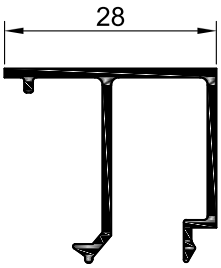
R75.131 *Enchimento*



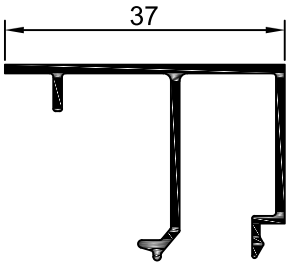
AP.59 *Bite*



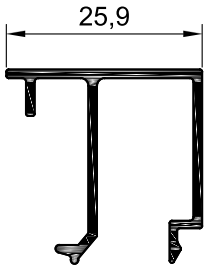
AP.58 *Bite*



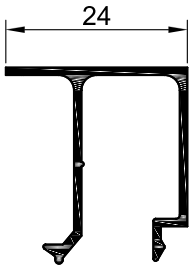
AP.60 *Bite*



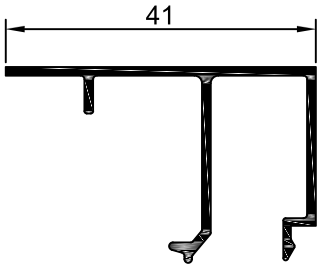
AP.57 *Bite*



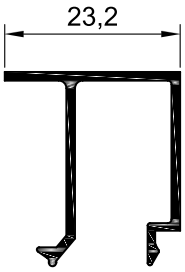
AP.50 *Bite*



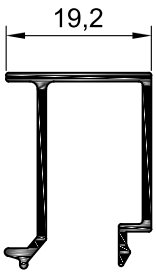
AP.61 *Bite*



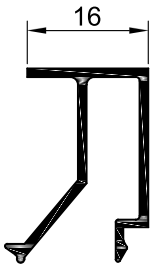
AP.56 *Bite*



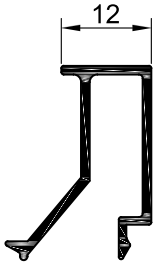
AP.55 *Bite*

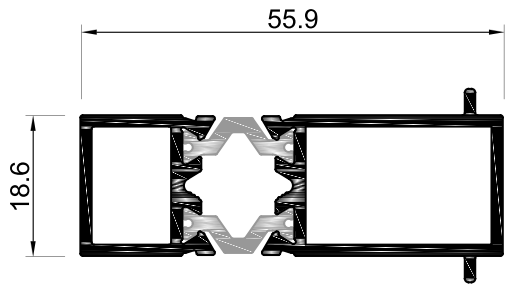


AP.54 *Bite*

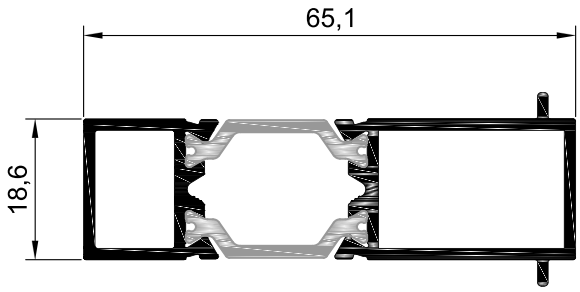


AP.53 *Bite*

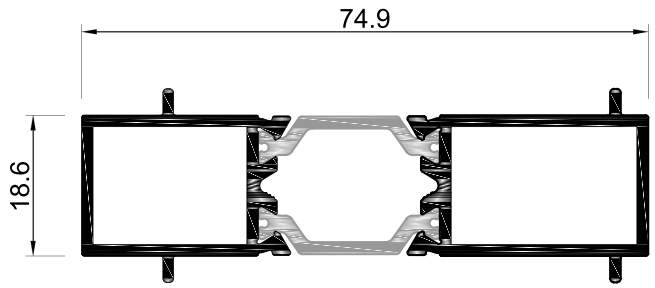




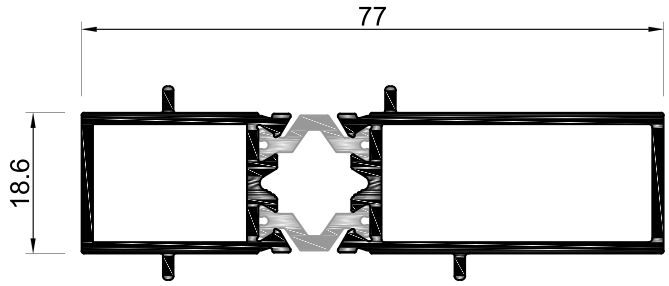
R65.95 *Perfil Ligação*



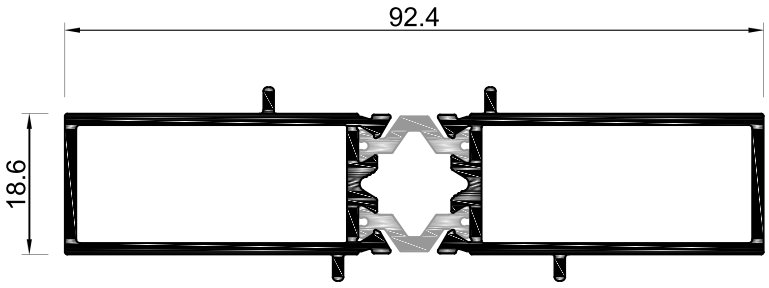
R65.96 *Perfil Ligação*



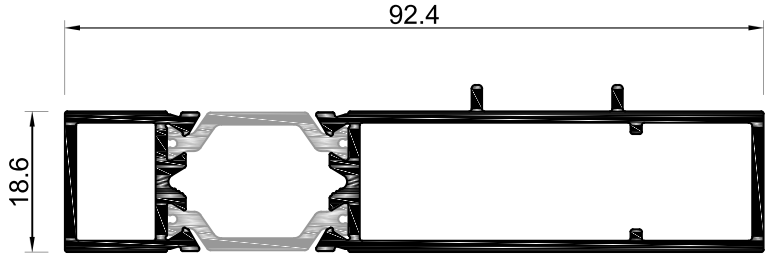
R65.97 *Perfil Ligação*



R65.98 *Perfil Ligação*

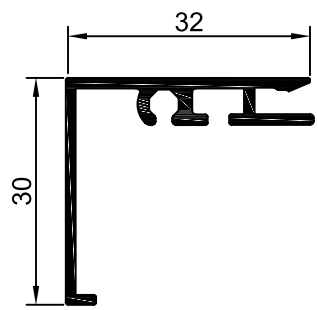


R65.99 *Perfil Ligação*

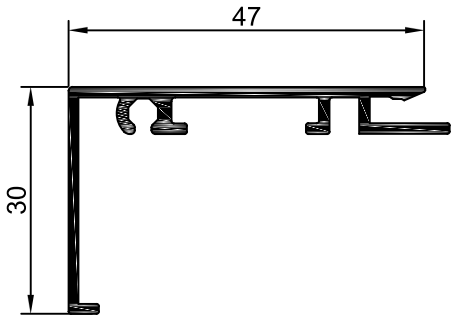


R65.100 *Perfil Ligação*

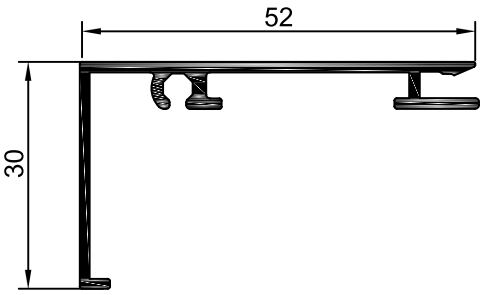
RQ.108 *Remate*



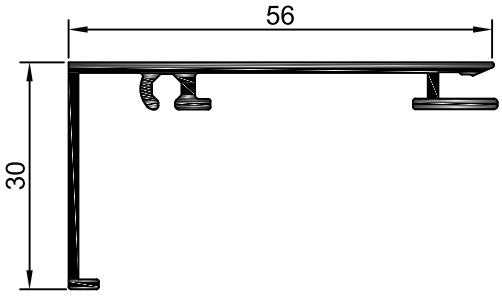
RQ.101 *Remate*



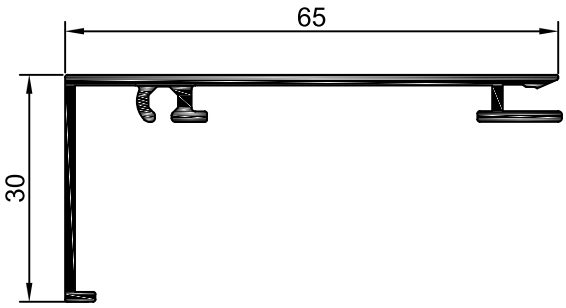
RQ.109 *Remate*



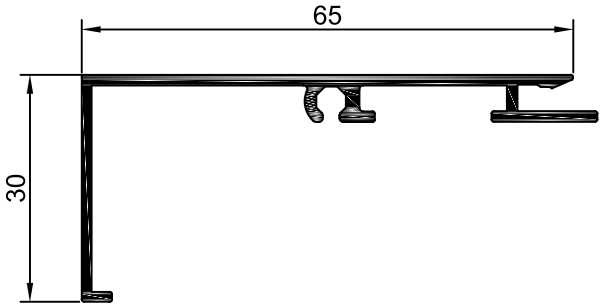
RQ.102 *Remate*



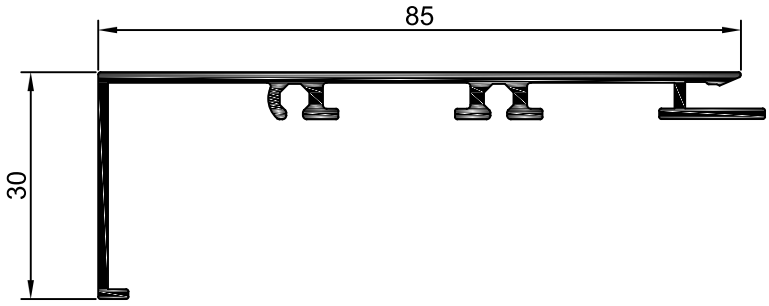
RQ.103 *Remate*



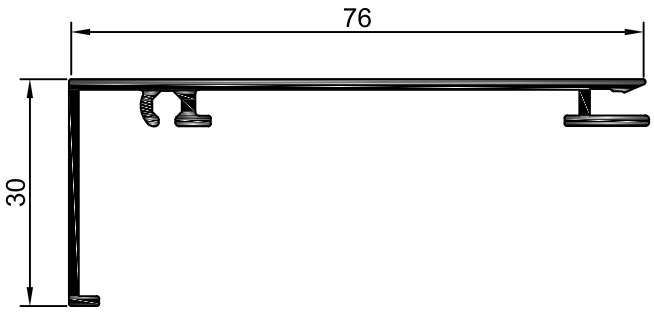
RQ.104 *Remate*



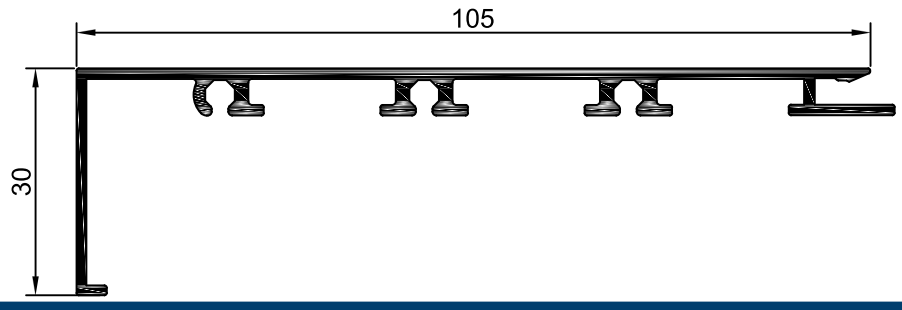
RQ.106 *Remate*



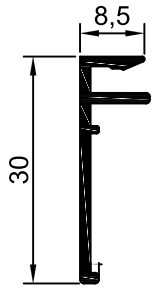
RQ.105 *Remate*



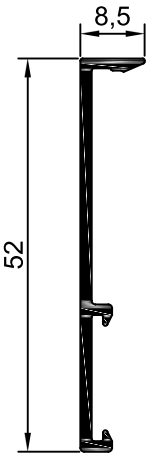
RQ.107 *Remate*



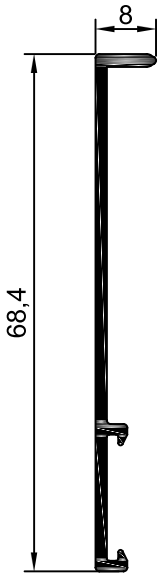
AQ.121 *Remate*



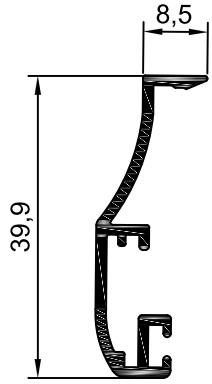
AQ.126 *Remate*



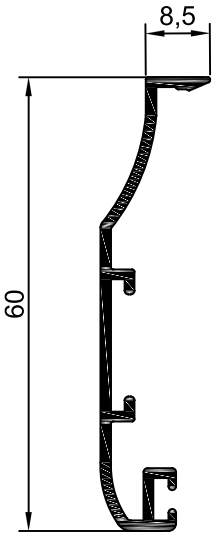
AQ.127 *Remate*



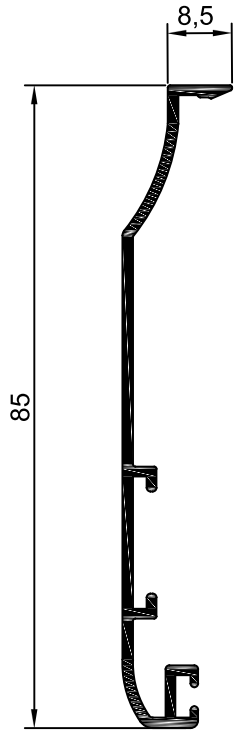
AQ.123 *Remate*

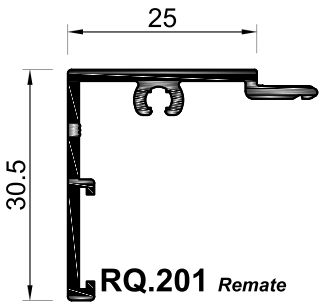


AQ.124 *Remate*



AQ.125 *Remate*

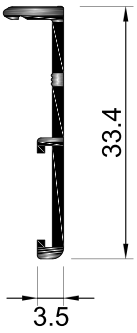




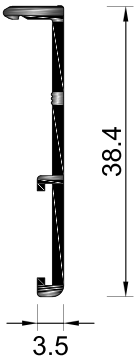
RQ.201 *Remate*



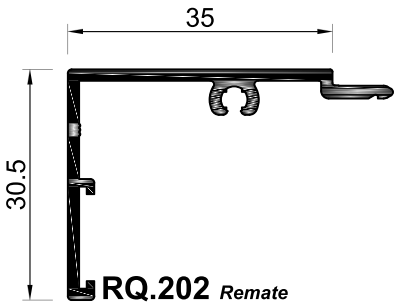
AQ.201 *Remate*



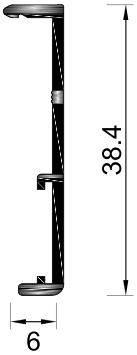
AQ.202 *Remate*



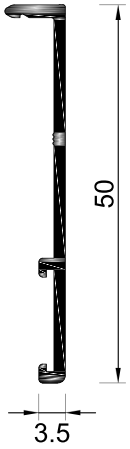
AQ.203 *Remate*



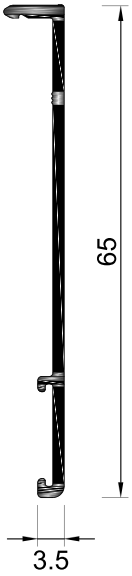
RQ.202 *Remate*



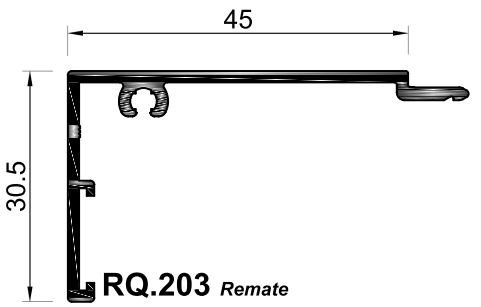
AQ.204 *Remate*



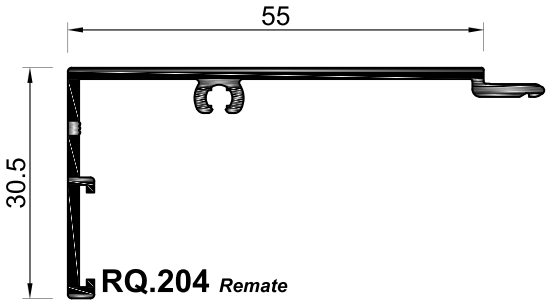
AQ.206 *Remate*



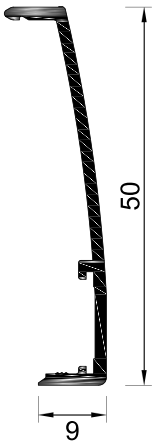
AQ.205 *Remate*



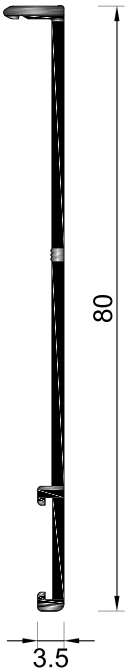
RQ.203 *Remate*



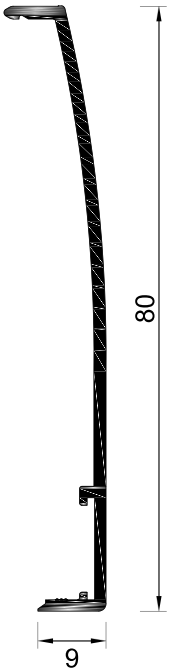
RQ.204 *Remate*



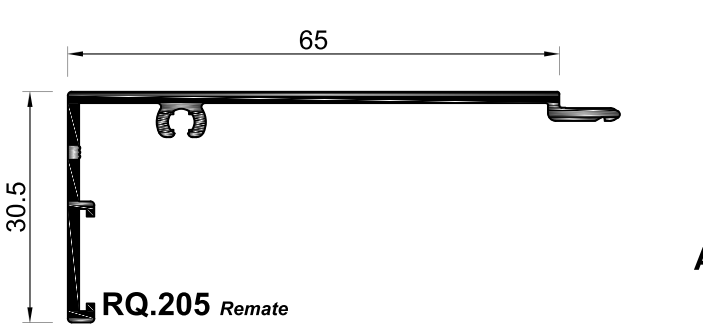
AQ.207 *Remate*



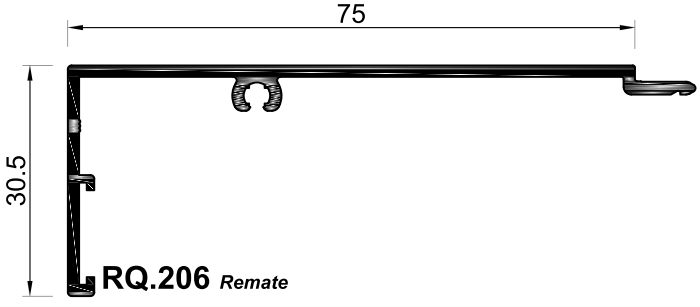
AQ.208 *Remate*



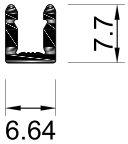
AQ.209 *Remate*



RQ.205 *Remate*

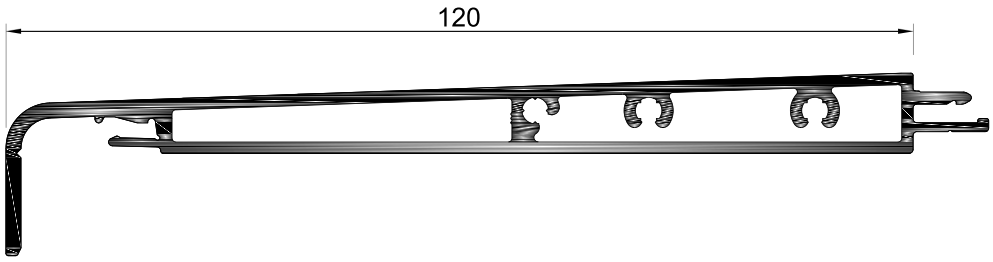


RQ.206 *Remate*

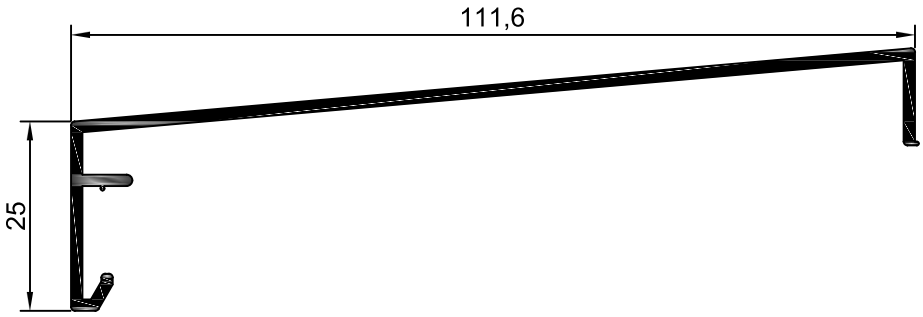


AQ.210 *Remate*

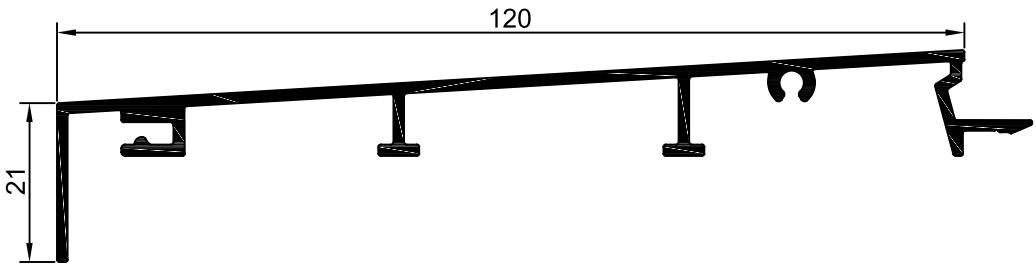
AQ.218 *Remate Inferior*



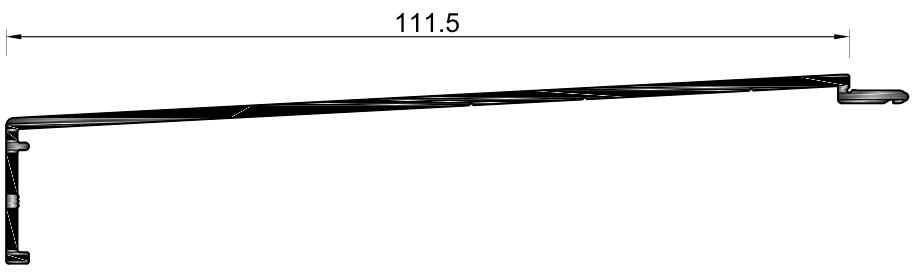
AQ.115 *Remate Inferior*

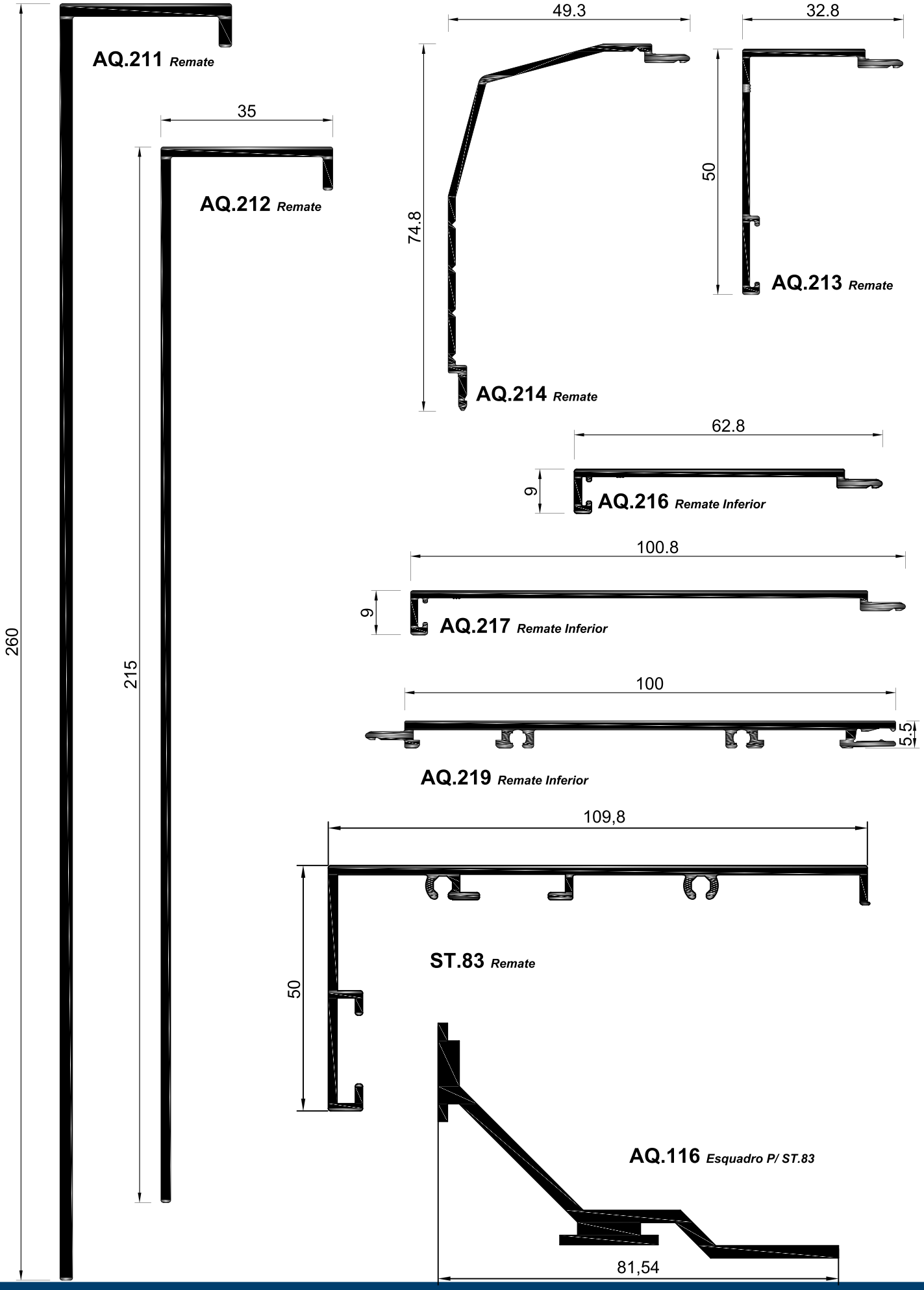


AQ.118 *Remate Inferior*

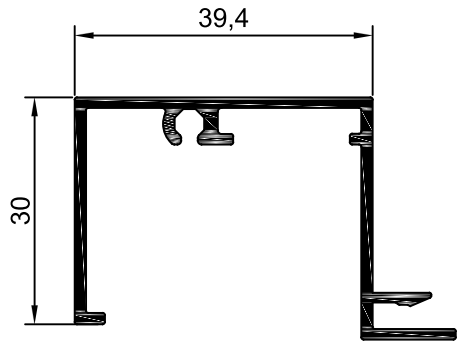


AQ.215 *Remate Inferior*

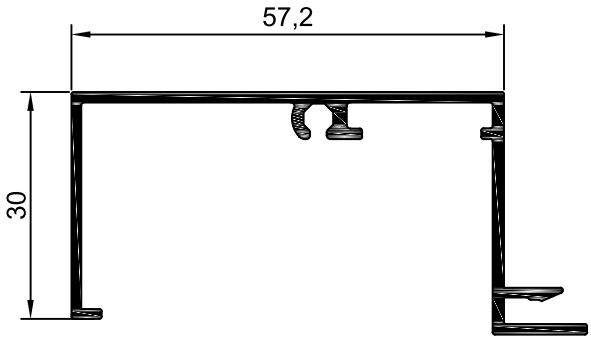



260
AQ.211 Remate
35
215
AQ.212 Remate
49.3
74.8
AQ.214 Remate
32.8
50
AQ.213 Remate
62.8
9
AQ.216 Remate Inferior
100.8
9
AQ.217 Remate Inferior
100
5.5
AQ.219 Remate Inferior
109,8
50
ST.83 Remate
AQ.116 Esquadro P/ ST.83
81,54

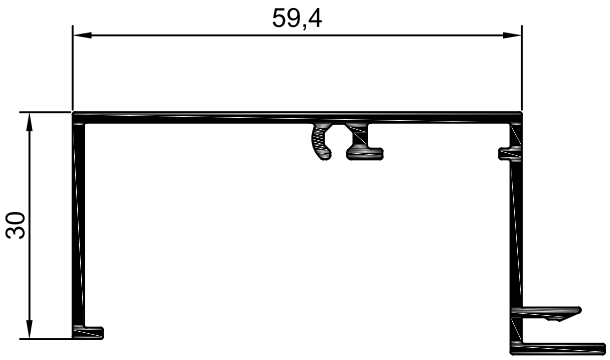
AQ.151 *Remate*



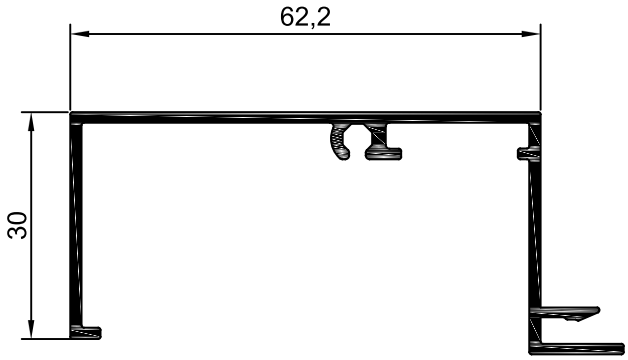
AQ.152 *Remate*



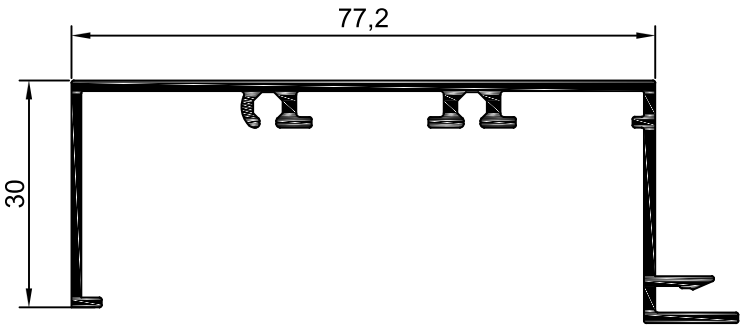
AQ.153 *Remate*



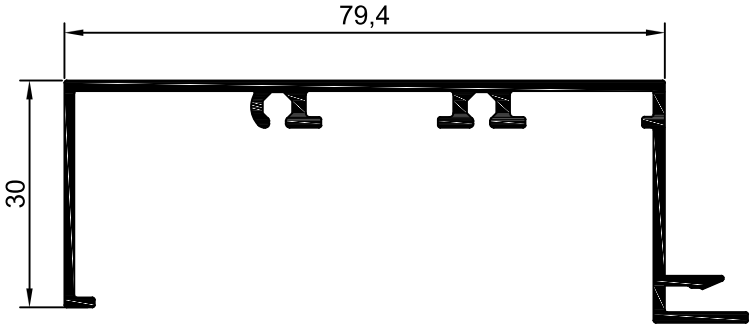
AQ.154 *Remate*



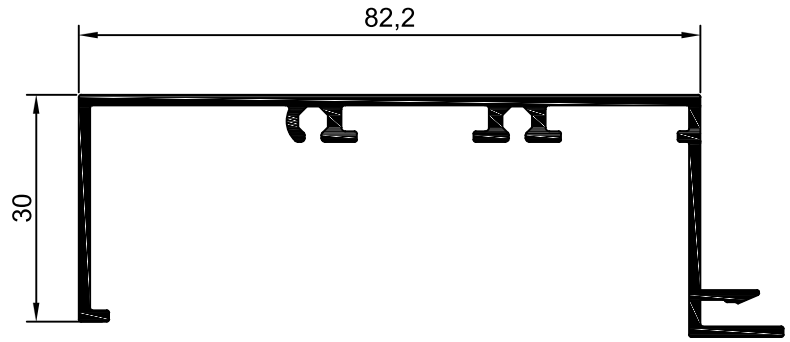
AQ.155 *Remate*



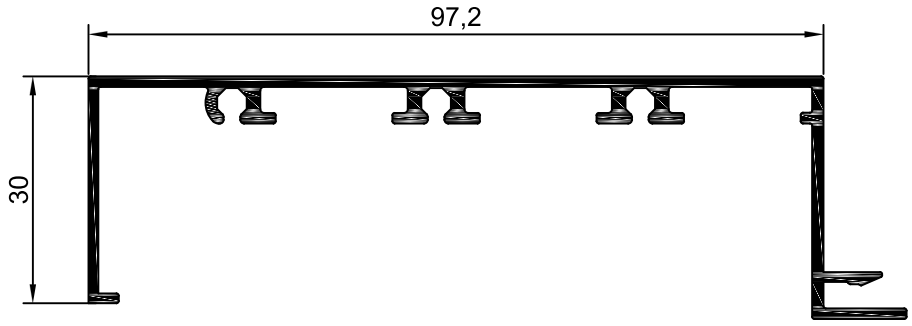
AQ.156 *Remate*



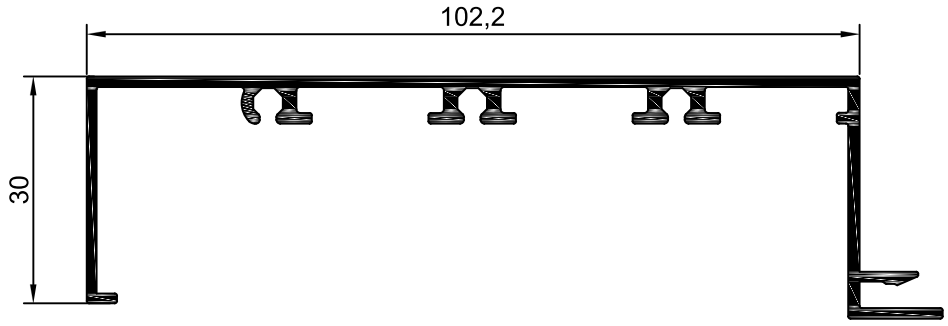
AQ.157 *Remate*



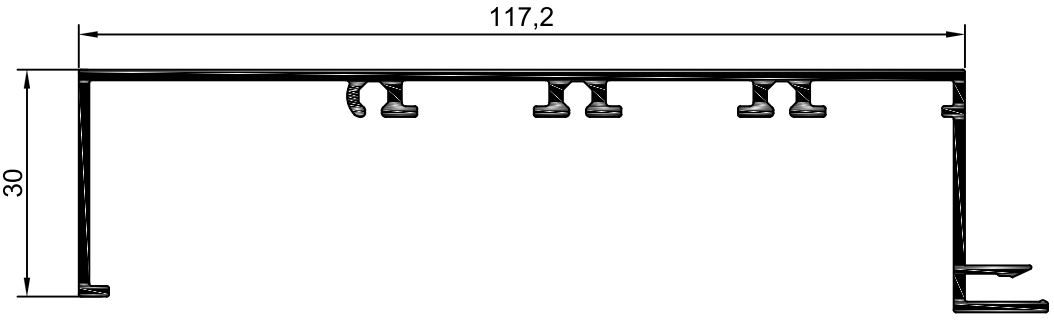
AQ.158 *Remate*

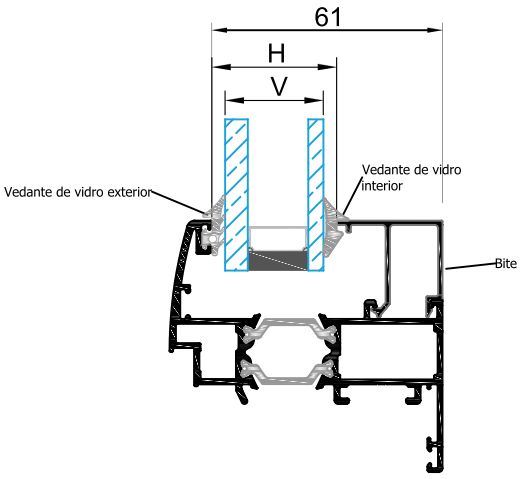


AQ.159 *Remate*

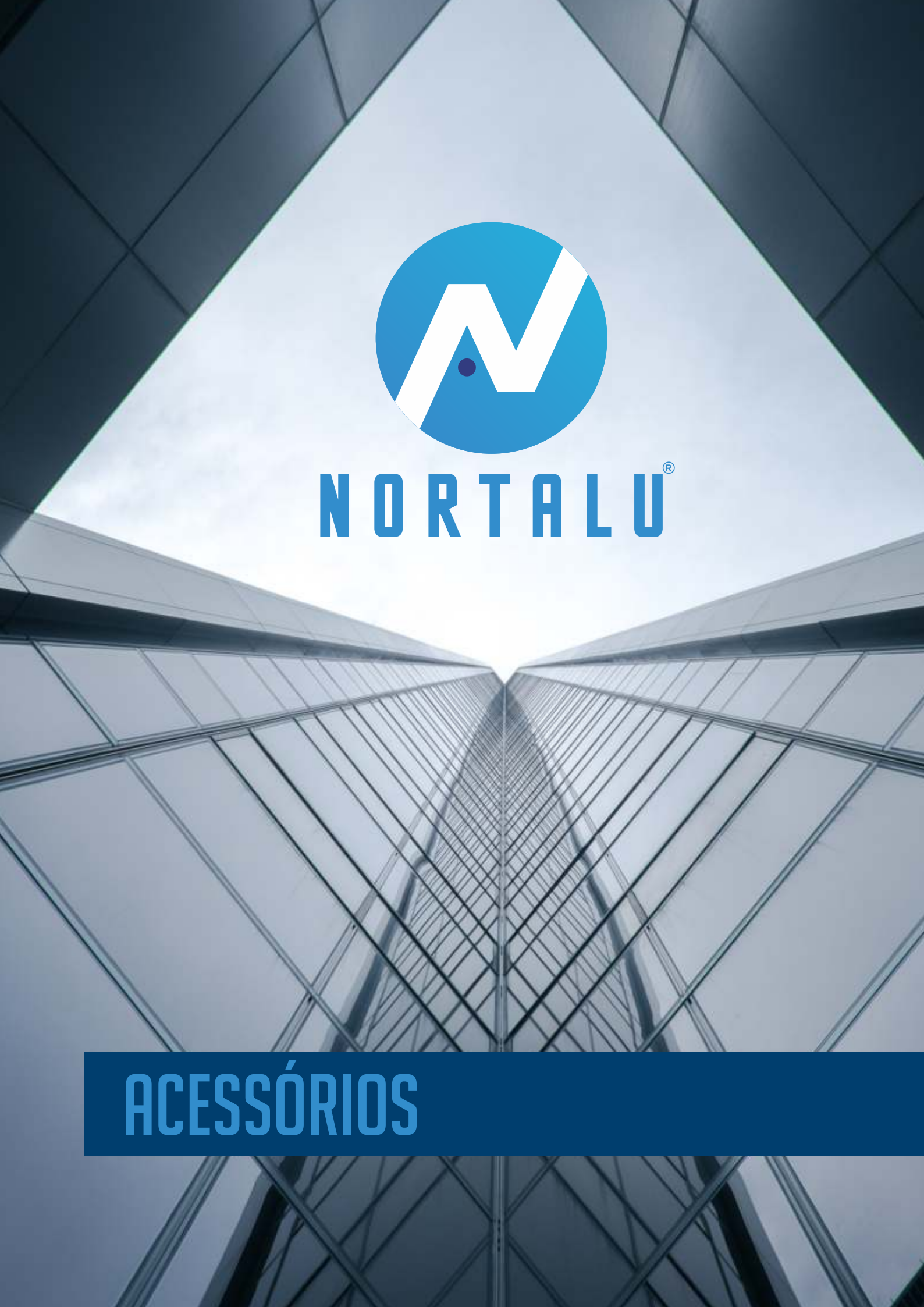


AQ.160 *Remate*



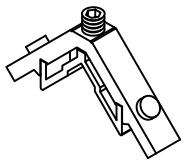
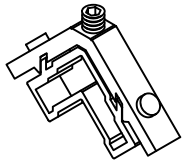
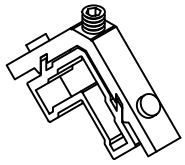
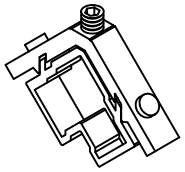
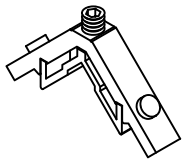
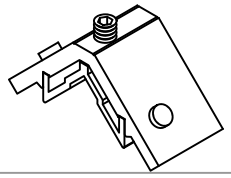
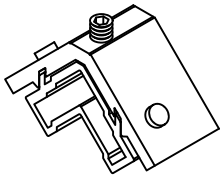
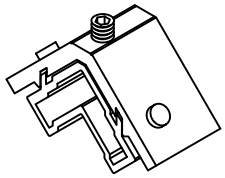
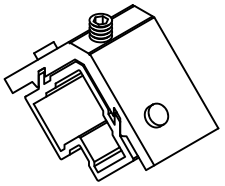


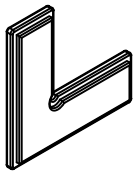
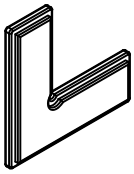
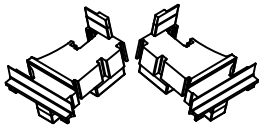
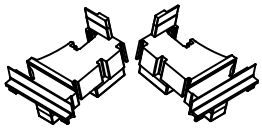
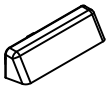
Bite	Caixa de vidro (H)	Vedante exterior	Vedante interior	Vidro (V)
AP.61 (41 mm)	20 mm	VD 042	VD 217	14
			VD 216	16
			VD 237	12
AP.60 (37 mm)	24 mm	VD 042	VD 217	18
			VD 216	17
			VD 237	16
AP.59 (33,2 mm)	27,8 mm	VD 042	VD 217	22
			VD 216	21
			VD 237	20
AP.58 (28 mm)	33 mm	VD 042	VD 217	27
			VD 216	26
			VD 237	25
AP.57 (25,9 mm)	35,1 mm	VD 042	VD 217	29
			VD 216	28
			VD 237	27
AP.50 (24 mm)	37 mm	VD 042	VD 217	31
			VD 216	30
			VD 237	29
AP.56 (23,2 mm)	37,8 mm	VD 042	VD 217	32
			VD 216	31
			VD 237	30
AP.55 (19,2 mm)	41,8 mm	VD 042	VD 217	36
			VD 216	35
			VD 237	34
AP.54 (16 mm)	45 mm	VD 042	VD 217	39
			VD 216	38
			VD 237	37
AP.53 (11,9 mm)	49,1 mm	VD 042	VD 217	43
			VD 216	42
			VD 237	41



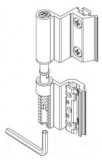
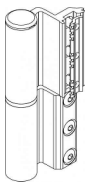
NORTALU®

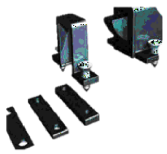
ACESSÓRIOS

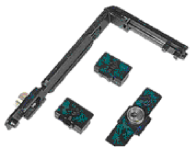
Referência	Desenho	Designação	Observações
ESQ NT48CEN9X14		Esquadro NT48 Centrado 9x14	
ESQ NT48CEN9X26		Esquadro NT48 Centrado 9x26	Aplicação R65.74
ESQ NT48CEN9X21		Esquadro NT48 Centrado 9x21	
ESQ NT48CEN9X36		Esquadro NT48 Centrado 9x36	
ESQ NT48CEN9X11		Esquadro NT48 Centrado 9x11	Aplicação R65.05
ESQ NT48DES24X14		Esquadro NT48 Descentrado 24x14	
ESQ NT48DES25X19		Esquadro NT48 Descentrado 25x19	Aplicação R65.05
ESQ NT48DES24X26		Esquadro NT48 Descentrado 24x26	
ESQ NT48DES24X36		Esquadro NT48 Descentrado 24x36	

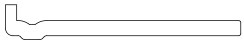
Referência	Desenho	Designação	Observações
ESQ ALINH751X12		Esquadro de Alinhamento 7.5 x 1.2	
ESQ 13		Esquadro de Alinhamento inox 15,1 x 0,8C	
TOP R65		Topo Inversor R65	
TOP R65O		Topo Inversor R65 Oculta	
GOT 9001		Goteira rasgo	
ESQ L10417		Esquadro união	
ESQ UNS200G		Esquadro união T/P Grande	
VD 042		Vedante Encaixe vidro exterior	
VD 216		Vedante Encaixe vidro interior	

Referência	Desenho	Designação	Observações
VD 217		Vedante Encaixe vidro interior	
VD 237		Vedante Encaixe vidro interior	
VD 764		Vedante central R65	
VD 6030		Vedante Batente Aro Fixo R65	
CV 764 R65		Canto Vulcanizado R65	
VD 6040		Vedante Batente Aro Móvel	
VD L20713		Vedante remate AQ99	
VD L20723		Vedante anti-derrapante	
KIT 0225600K		Kit Cremone 1 Folha	

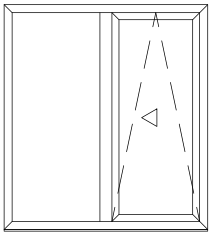
Referência	Desenho	Designação	Observações
02258000K		Kit Cremone 2 Folha	
FECHO 49041		Fecho CE Pequeno 2ªFolha Zamak	
FECHO 49048		Fecho CE Medio 2ªFolha Zamak	
FECHO 49054		Fecho CE Grande 2ªFolha Zama	
DOB 00120		Dobradiça Camara Europeia 2F	
DOB 00151		Dobradiça Camara Europeia 3F	
DOB 8020		Dobradiça Porta Pesada	
DOB 535		Dobradiça 535 Porta Flash	
FECHO CG0107		Fecho Bandeira c/afinação Cam.Europeia	

Referência	Desenho	Designação	Observações
FECHO D6030		Fecho Bandeira perfis tradição	
COMP 10631 COMP 10630		Compasso Grande Compasso Pequeno	
COMP 12301CE		Compasso Projectante EASY Aço Inox	
COMP 1210 INOX		Compasso Projectante	
FECHO 01024		Fecho Cremone Prima (Rapid 104)	
FECHO 01007		Fecho Cremona Supernova	
KIT 02245000		Kit Cremone Abertura Exterior	
OB 04704000 OB 04711500		Oscilo-Batente Giesse Oscilo-Batente Tradição Giesse	
OB 3420G OB 3520 251		Oscilo-Batente Ween Master Oscilo-Batente Tradição Master	

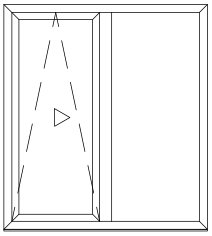
Referência	Desenho	Designação	Observações
JP 6401 JP 6006 1 JP 4241		Acessorio de conexão P/Jan.Proj Cremone p/Janela Projectante Perno de Fecho P/Janela Projectante	
JP 4212 2 JP 3620 3		Encontro Aste Simples P/Jan.Proj. Kit Fecho Janela Projectante	
OB 04770000K OB 3400G 31		Angulo Suplementar P/OB Giesse Fecho complementar OB Master	
04282000K FECHO 3520 34		Fecho 2ªFolha OB Giesse Fecho 2ªFolha OB Master	
DOB 04718 DOB 3520 71		Dobradica 2ª Folha O/B Giesse Dobradiça 2ª Folha O/B Master	
PUXA 02472		Puxador Muleta	
6FAE67L062801		Fechadura Tripla 755/30 c/cilindro Fechadura Tripla 755/35 c/cilindro	
6FAE630G62801 6FAE630062801		Fechadura Prumo 730/30 c/cilindro Fechadura Prumo 730/35 c/cilindro	
050612601		Fecho de Lingueta 7400	

Referência	Desenho	Designação	Observações
		Ponto Fecho	
TOP L20633		Topo AQ99	
TOP 353		Topo Pingadeira	
SVINOX R65		Suporte Inox Folha Oculta R65	

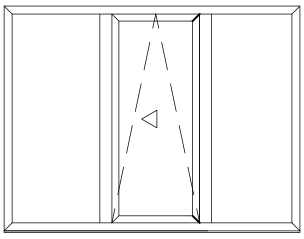
Conjunto Oscilo-Paralela



Esquema A



Esquema A



Esquema A

ESPECIFICAÇÕES TÉCNICAS:

- **Semi-Automática 100 Kgs:**

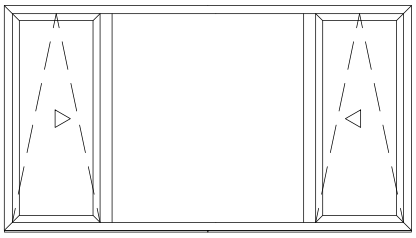
  Largura da Folha: 670 - 1280 mm

  Altura da Folha: 930 - 2380 mm

- **Semi-Automática 160 Kgs:**

  Largura da Folha: 670-1680 mm

  Altura da Folha: 930 - 2380 mm



Esquema K

- **Automática 100 Kgs:**

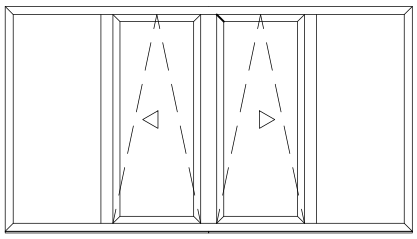
  Largura da Folha: 670 - 1280 mm

  Altura da Folha: 930 - 2380 mm

- **Automática 160 Kgs:**

  Largura da Folha: 670 - 2000 mm

  Altura da Folha: 930 - 2700 mm



Esquema C

- **Automática 200 Kgs:**

  Largura da Folha: 1080 - 2000 mm

  Altura da Folha: 930 - 2700 mm

Conjunto Harmónio

Diagrama 3 2 1

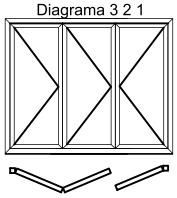


Diagrama 3 3 0

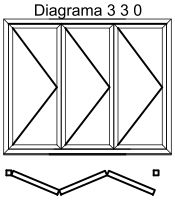


Diagrama 4 3 1

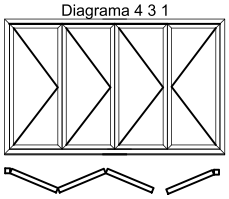


Diagrama 5 4 1

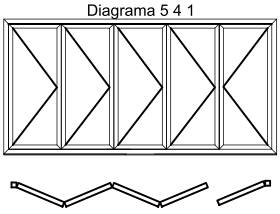


Diagrama 5 5 0

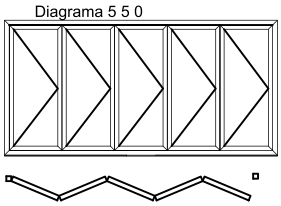


Diagrama 5 3 2

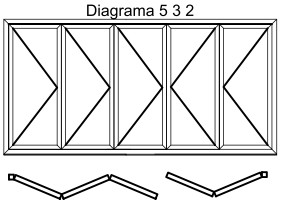


Diagrama 6 5 1

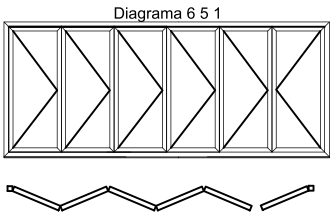


Diagrama 6 3 3

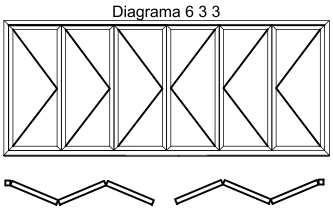


Diagrama 7 6 1

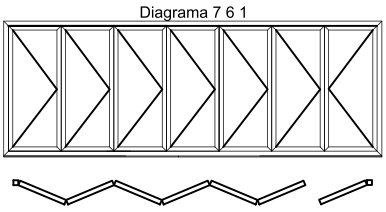


Diagrama 7 7 0

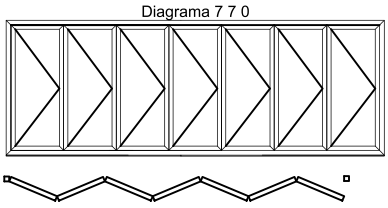
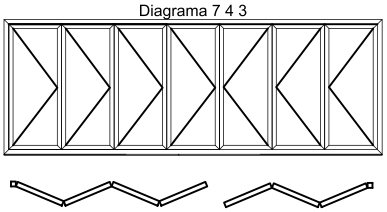


Diagrama 7 4 3



ESPECIFICAÇÕES TÉCNICAS:

- Largura Mínima por Folha: 350mm
- Largura Máxima por Folha: 900mm
- Altura Mínima por Folha: 850mm
- Altura Máxima por Folha: 2400mm
- Peso Máximo por Folha: 80 Kg

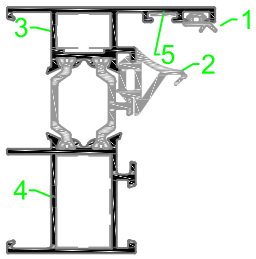


NORTALU®

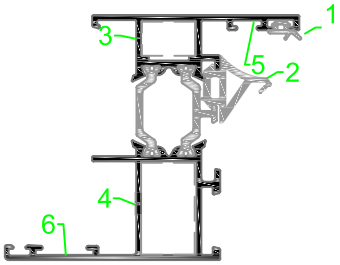
PORMENORES TÉCNICOS

ACESSÓRIOS (Aplicáveis nos perfis)

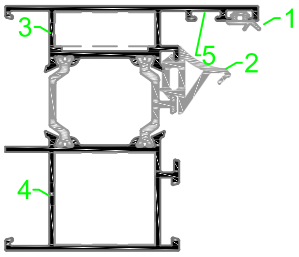
Acessórios Aro Fixo Janela R65.01		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X14	Esquadro NT48 Centrado 9x14
4	NT48DES24X14	Esquadro NT48 Descentrado 24x14
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2



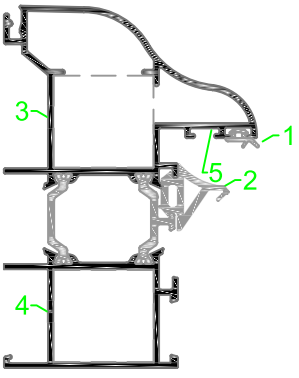
Acessórios Aro Fixo Janela R65.07		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X14	Esquadro NT48 Centrado 9x14
4	NT48DES24X14	Esquadro NT48 Descentrado 24x14
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8c



Acessórios Aro Fixo Porta R65.03		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X26	Esquadro NT48 Centrado 9x26
4	NT48DES24X14	Esquadro NT48 Descentrado 24x26
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2

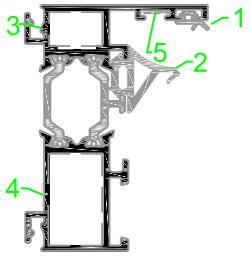


Acessórios Aro Fixo Porta R65.10		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48DES24X26	Esquadro NT48 Descentrado 24x26
4	NT48DES24X26	Esquadro NT48 Descentrado 24x26
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2

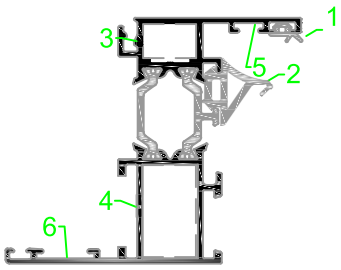


ACESSÓRIOS (Aplicáveis nos perfis)

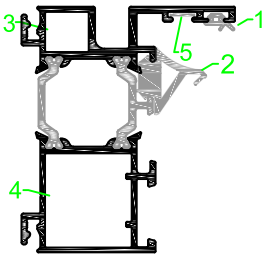
Acessórios Aro Fixo Janela R65.04		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X14	Esquadro NT48 Centrado 9x14
4	NT48DES24X14	Esquadro NT48 Descentrado 24x14
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2



Acessórios Aro Fixo Janela R65.02		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X14	Esquadro NT48 Centrado 9x14
4	NT48DES24X14	Esquadro NT48 Descentrado 24x14
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8c

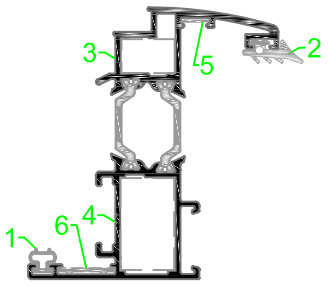


Acessórios Aro Fixo Porta R65.05		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X11	Esquadro NT48 Centrado 9x11
4	NT48DES25X19	Esquadro NT48 Descentrado 25x19
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2

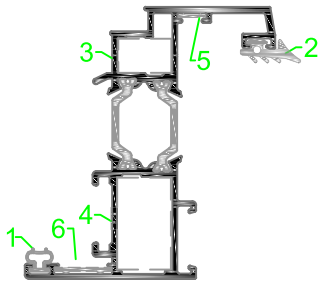


ACESSÓRIOS (Aplicáveis nos perfis)

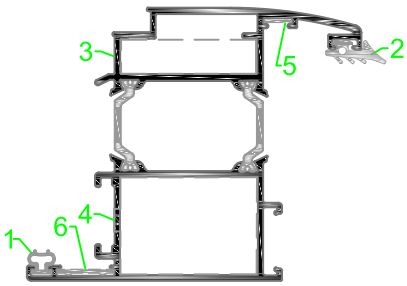
Acessórios Aro Móvel Curvo Janela R65.21		
1	P1228 10 ES	Vedante Batente Aro Móvel
2	VD 042	Vedante Encaixe vidro exterior
3	NT48CEN9X14	Esq. NT48 Centrado 9x14
4	NT48DES24X14	Esq.NT48 Descentrado 24x14
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8 c



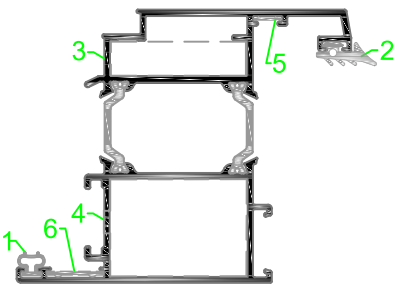
Acessórios Aro Móvel Janela R65.22		
1	P1228 10 ES	Vedante Batente Aro Móvel
2	VD 042	Vedante Encaixe vidro exterior
3	NT48CEN9X14	Esq. NT48 Centrado 9x14
4	NT48DES24X14	Esq.NT48 Descentrado 24x14
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8 c



Acessórios Aro Móvel Curvo Porta R65.31		
1	P1228 10 ES	Vedante Batente Aro Móvel
2	VD 042	Vedante Encaixe vidro exterior
3	NT48CEN9X36	Esquadro NT48 Centrado 9x36
4	NT48DES24X36	Esquadro NT48 Descentrado 24x36
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8 c

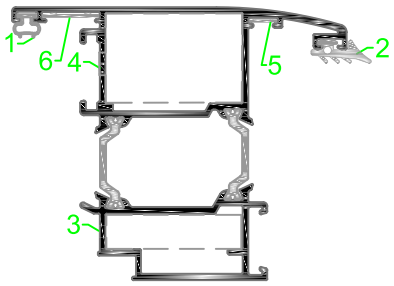


Acessórios Aro Móvel Porta R65.32		
1	P1228 10 ES	Vedante Batente Aro Móvel
2	VD 042	Vedante Encaixe vidro exterior
3	NT48CEN9X36	Esquadro NT48 Centrado 9x36
4	NT48DES24X36	Esquadro NT48 Descentrado 24x36
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8 c

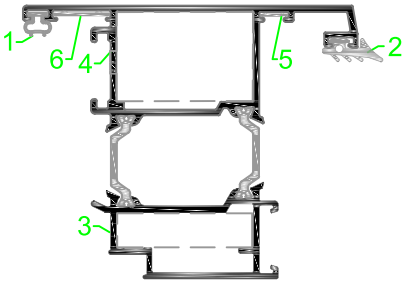


ACESSÓRIOS (Aplicáveis nos perfis)

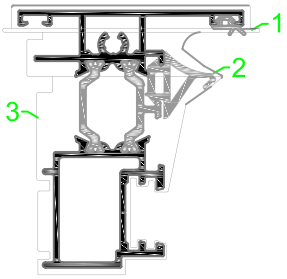
Acessórios Aro Móvel Curvo Porta Ab. Exterior R65.33		
1	P1228 10 ES	Vedante Batente Aro Móvel
2	VD 042	Vedante Encaixe vidro exterior
3	NT48CEN9X36	Esquadro NT48 Centrado 9x36
4	NT48DES24X36	Esquadro NT48 Descentrado 24x36
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8 c



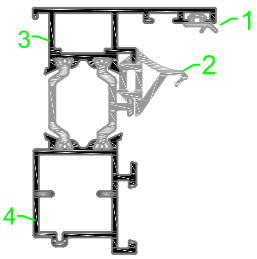
Acessórios Aro Móvel Porta Ab. Exterior R65.34		
1	P1228 10 ES	Vedante Batente Aro Móvel
2	VD 042	Vedante Encaixe vidro exterior
3	NT48CEN9X36	Esquadro NT48 Centrado 9x36
4	NT48DES24X36	Esquadro NT48 Descentrado 24x36
5	ALINH751X12	Esq. de Alinhamento 7.5 x 1.2
6	ESQ 13	Esq. de Alinhamento Inox 15,1 x 0,8 c



Acessórios Inversor R65.71		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	TOP R65	Topo Inversor

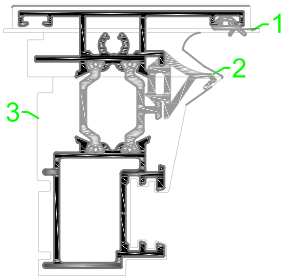


Acessórios Inversor R65.74		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	NT48CEN9X14	Esquadro NT48 Centrado 9x14
4	NT48CEN9X21	Esquadro NT48 Centrado 9x21

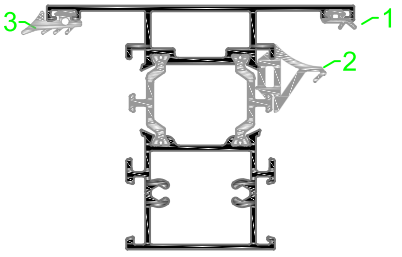


ACESSÓRIOS (Aplicáveis nos perfis)

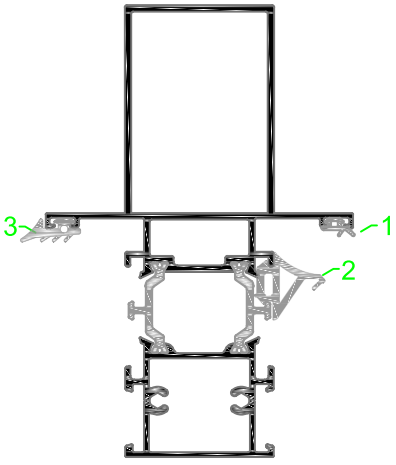
Acessórios Inversor R65.72		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	TOP R65O	Topo R65 Oculta

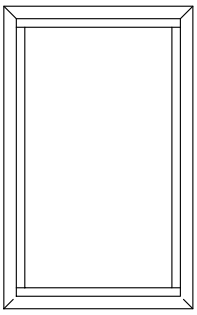


Acessórios Tavessa R65.11		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	VD 042	Vedante Encaixe vidro exterior

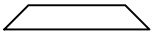
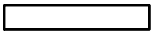
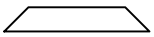


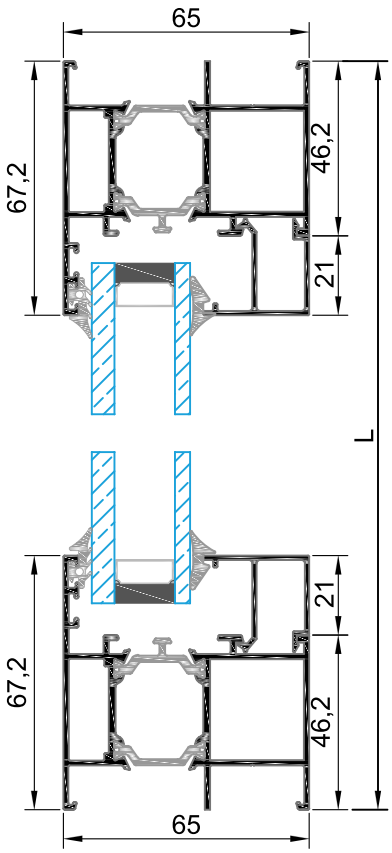
Acessórios Aro Móvel Porta R65.19		
1	VD 6030	Vedante Batente Aro Fixo
2	VD 764	Vedante central
3	VD 042	Vedante Encaixe vidro exterior

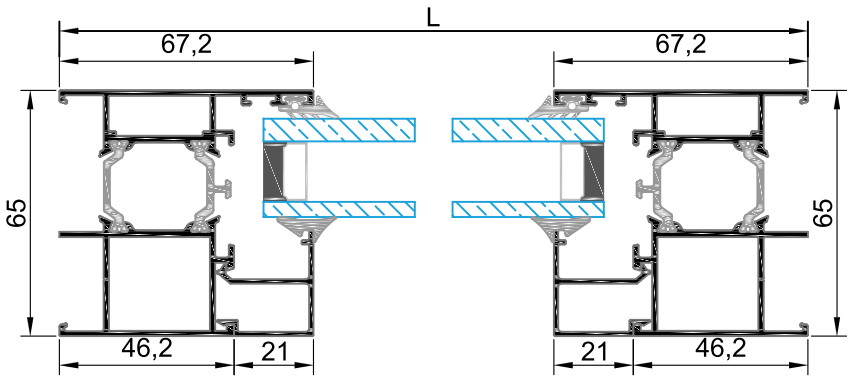


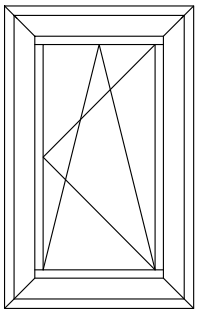


JANELA FIXA

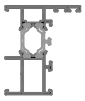
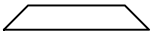
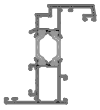
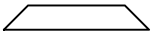
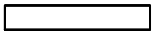
Ref.	Desenho	Designação	Corte	Uds.	Desconto
R65.03 R65.10		Aro Fixo horizontal Aro Fixo vertical		2 2	L H
Bite		Bite horizontal Bite vertical		2 2	L - 92,4 H - 134,4
Bite		Bite horizontal Bite vertical		2 2	L - 92,4 H - 134,4

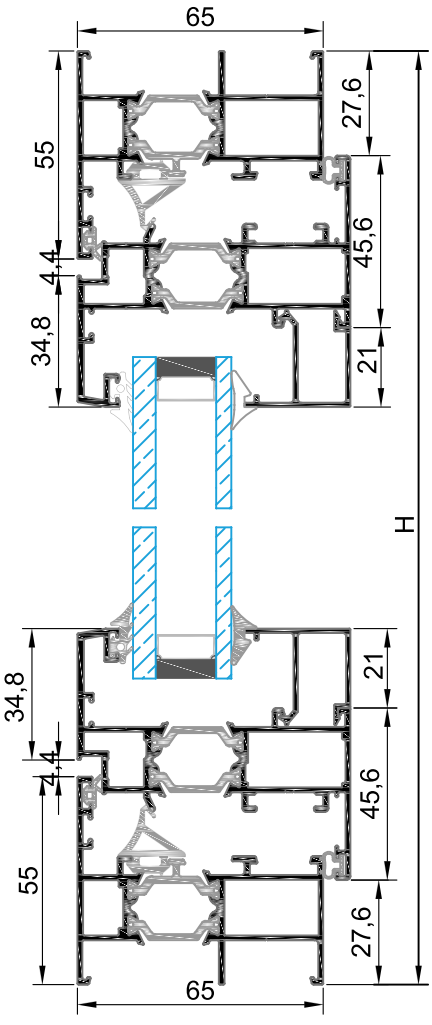


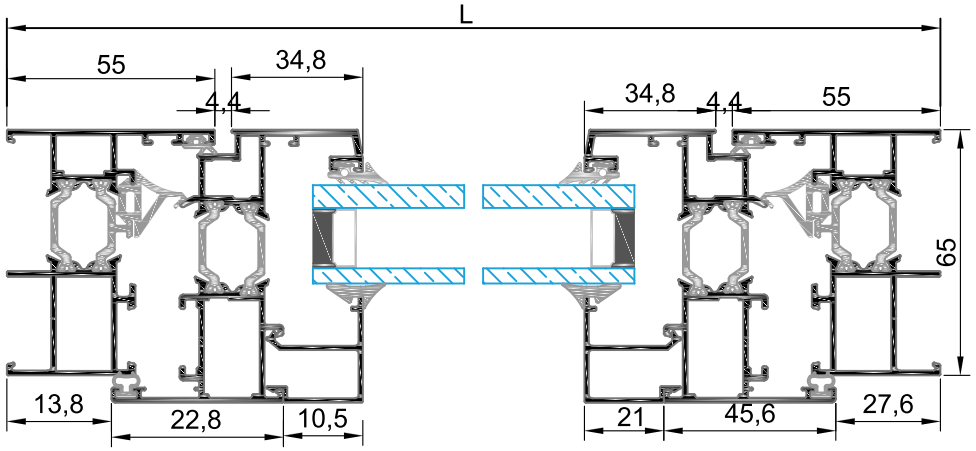


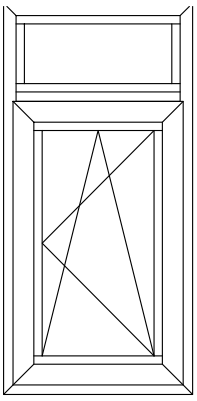


JANELA 1F
OSCILOBATENTE

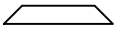
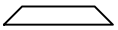
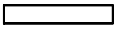
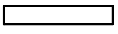
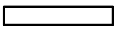
Ref.	Desenho	Designação	Corte	Uds.	Desconto
R65.01 R65.07		Aro Fixo horizontal Aro Fixo vertical		2 2	L H
R65.21 R65.22		Aro Móvel horizontal Aro Móvel vertical		2 2	L - 55,4 H - 55,4
Bite		Bite horizontal Bite vertical		2 2	L - 146,4 H - 188,4

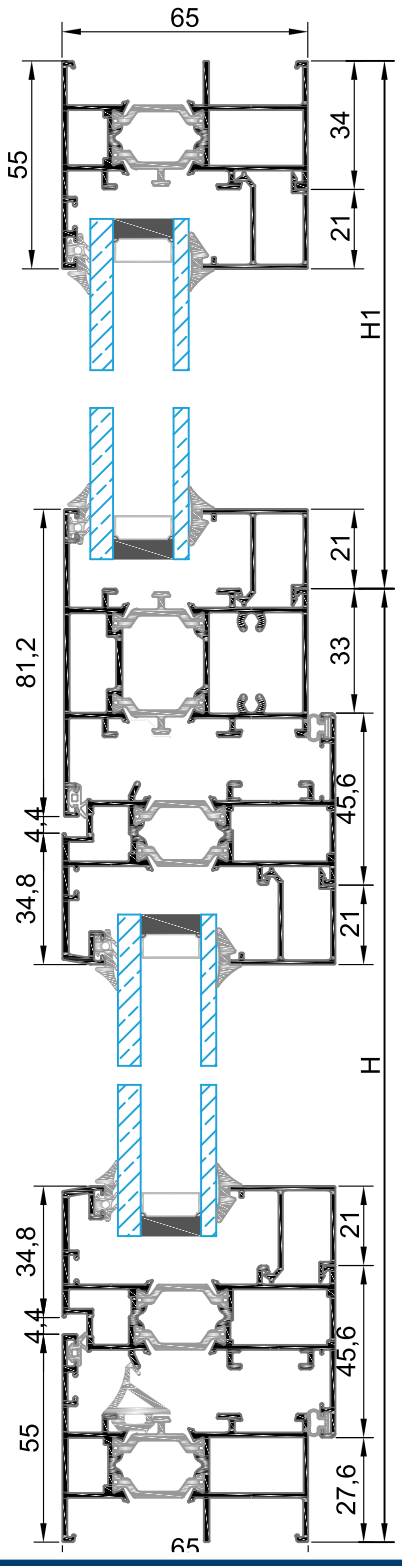


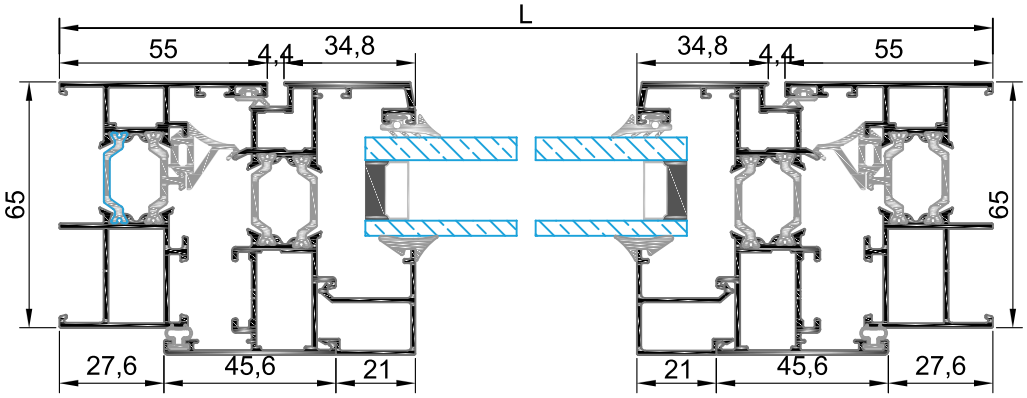


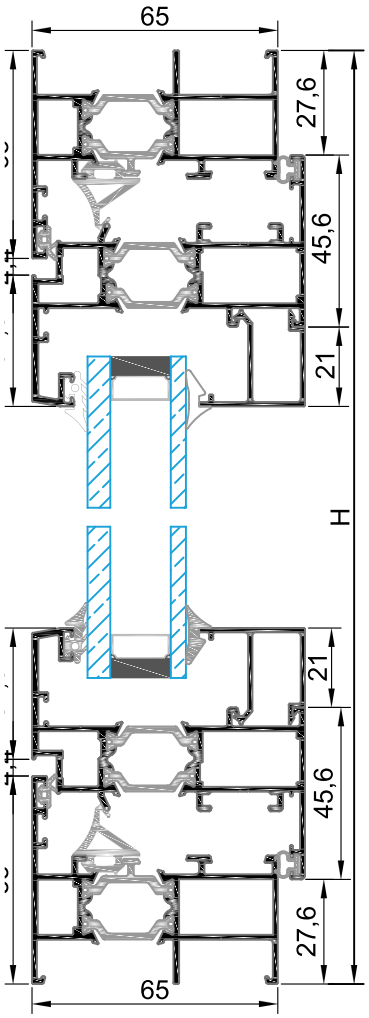


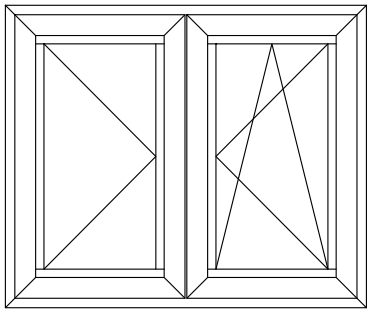
JANELA 1F OSCILOBATENTE + BANDEIRA

Ref.	Desenho	Designação	Corte	Uds.	Desconto
R65.01 R65.07		Aro Fixo horizontal Aro Fixo vertical		2 2	L H
R65.21 R65.22		Aro Móvel horizontal Aro Móvel vertical		2 2	L - 55,4 H - 60,6
R65.11 R65.19		Travessa		1	L - 45,8
Bite (Aro móvel)		Bite horizontal Bite vertical		2 2	L - 146,4 H - 193,6
Bite (Aro fixo)		Bite horizontal Bite vertical		2 2	L - 68 H1 - 76

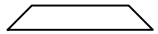
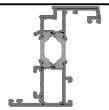
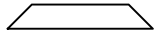
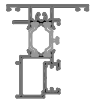
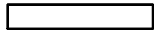
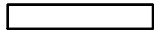


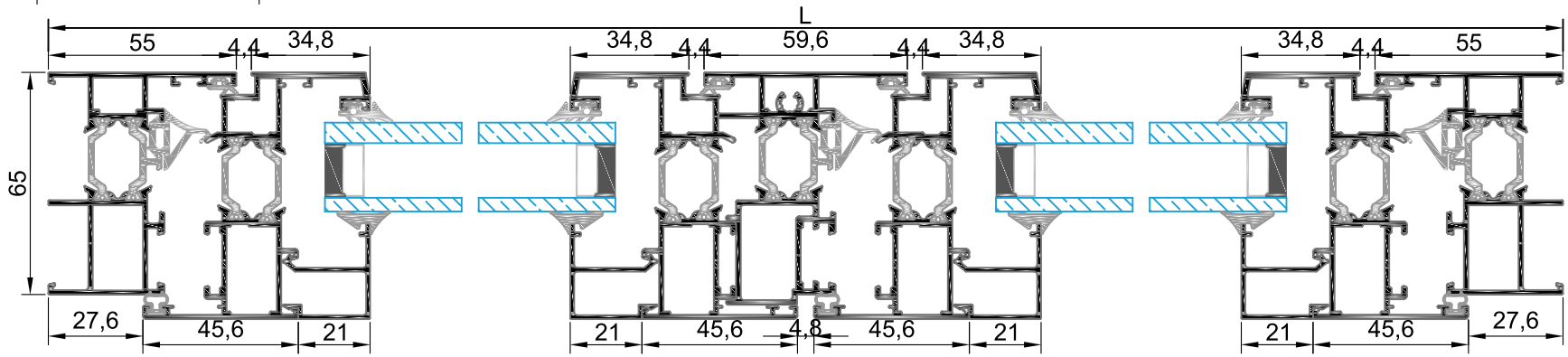


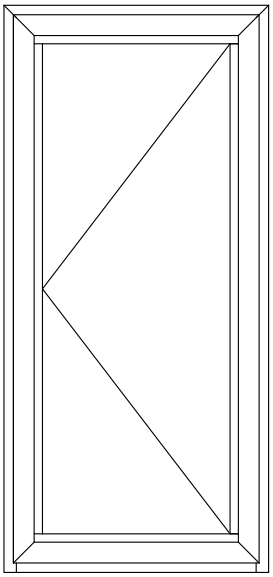




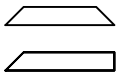
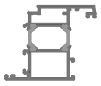
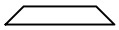
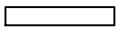
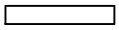
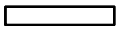
JANELA 2F OSCILOBATENTE

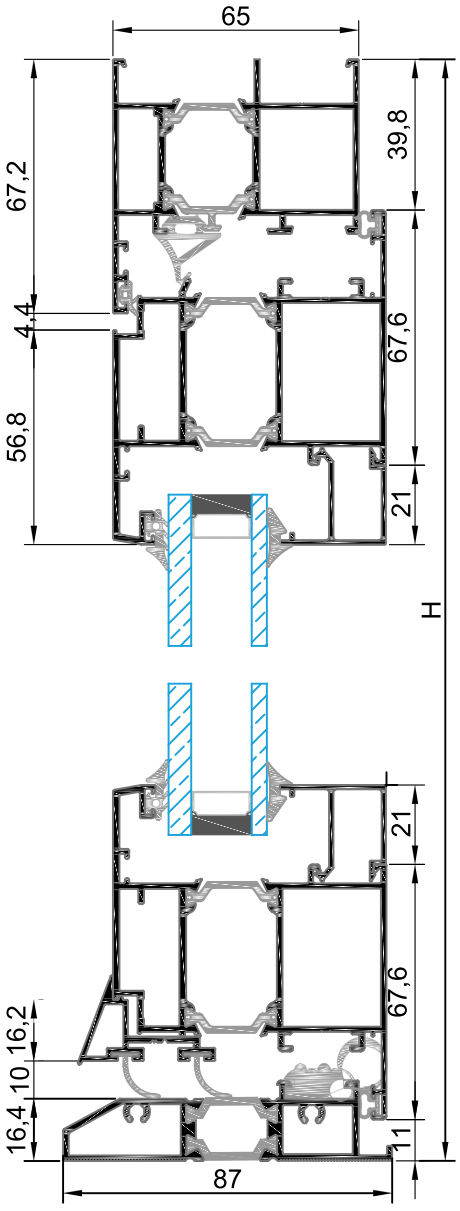
Ref.	Desenho	Designação	Corte	Uds.	Desconto
R65.01 R65.07		Aro Fixo horizontal Aro Fixo vertical		2 2	L H
R65.21 R65.22		Aro Móvel horizontal Aro Móvel vertical		4 4	(L-60,2)/2 H - 55,4
R65.71		Inversor		1	H - 124,8
Bite		Bite horizontal Bite vertical		4 4	(L-242,2)/2 H - 188,4

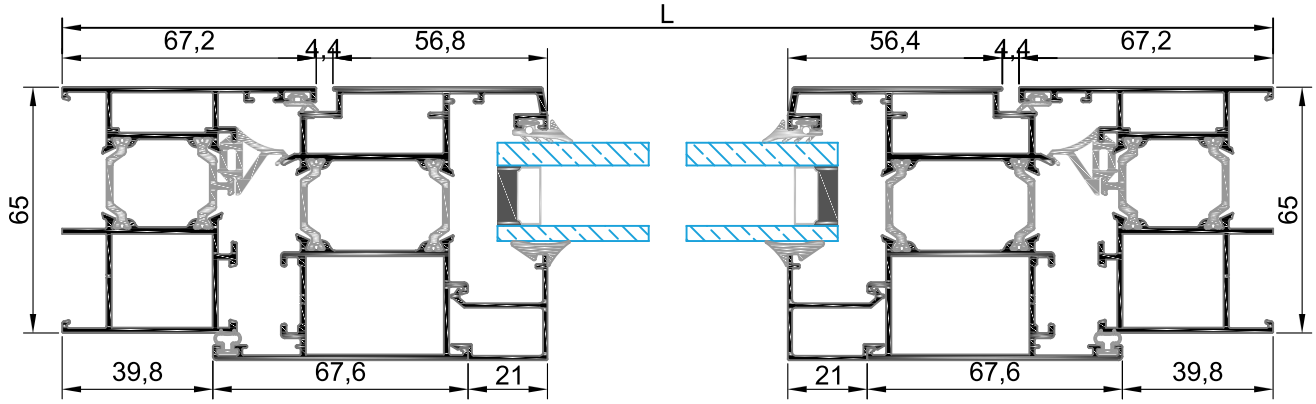


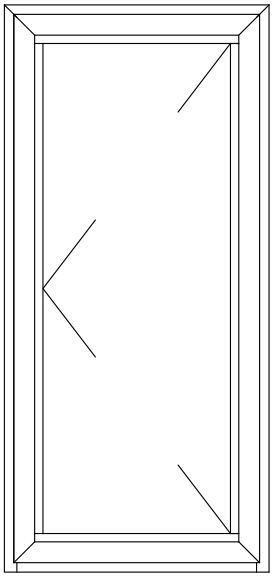


PORTA 1F ABERTURA INTERIOR C/ SOLEIRA INFERIOR

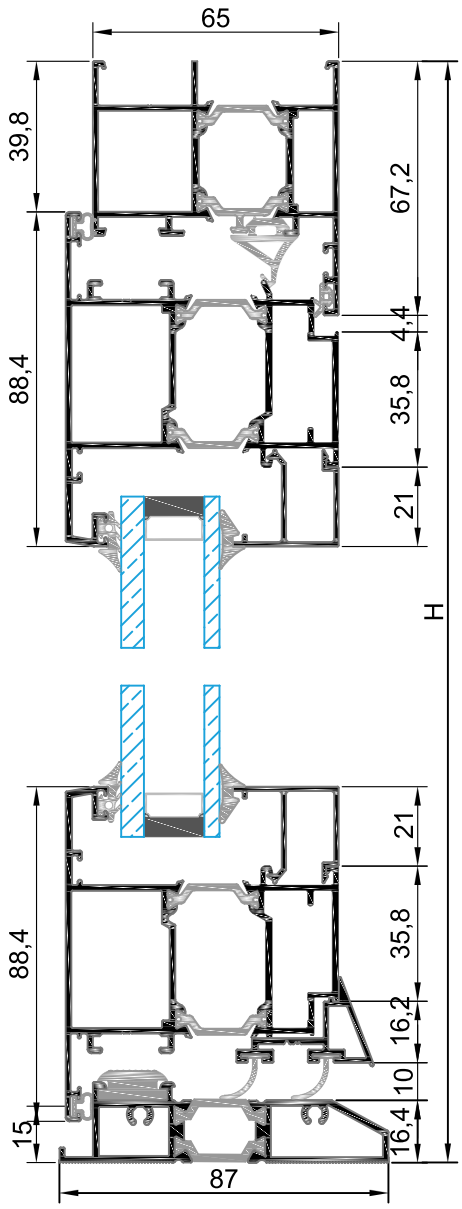
Ref.	Desenho	Designação	Corte	Uds.	Desconto
R65.03 R65.10		Aro Fixo horizontal Aro Fixo vertical		1 2	L H
R65.31 R65.32		Aro Móvel horizontal Aro Móvel vertical		2 2	L - 79,6 H - 54,7
RS.92		Soleira		1	L - 82,4
AQ.99		Perfil remate		1	L - 143,2
Bite		Bite horizontal Bite vertical		2 2	L - 214,6 H - 231,7



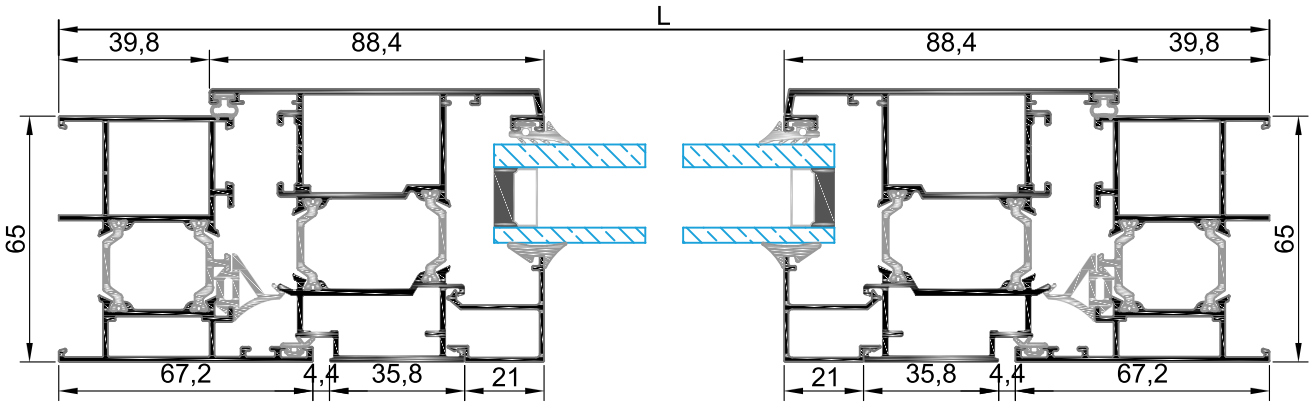




PORTA 1F ABERTURA EXTERIOR C/ SOLEIRA INFERIOR



Ref.	Desenho	Designação	Corte	Uds.	Desconto
R65.03 R65.10		Aro Fixo horizontal Aro Fixo vertical		2 2	L H
R65.33 R65.34		Aro Móvel horizontal Aro Móvel vertical		2 2	L - 79,6 H - 54,7
RS.92		Soleira		1	L - 82,4
AQ.99		Perfil remate		1	L - 143,2
Bite		Bite horizontal Bite vertical		2 2	L - 214,6 H - 231,7



SÉRIE R65

NORTALU®

Rua Dr. José Bragança Tavares, 78 Fr. A
4580-593 Paredes (Mouriz)
255 781 548/49
92 705 80 65
nortalu@nortalu.com

TRIAL Aluminium System

Trial Aluminium System - Zona Industrial Achada Grande Trás
(+238) 2631056
(+238) 263 1058
(+238) 9189881
geral.trial@nortalu.com