

Módulo

A.175



Extrusal[®]

A.100

SISTEMA DE BATENTE

Solução composta por três versões, A.175, A.165 e A.155, todas concebidas dentro da mesma filosofia:

Otimização dos recursos energéticos e contribuição para uma construção sustentável.





A.100 SISTEMA DE BATENTE RPT

Extrusal A.100 é composto por três sistemas para a construção de janelas de elevada *performance* e conforto.

A versão **175**, a excelência do sistema, apresenta os melhores resultados AEV, mecânicos, acústicos e térmicos do conjunto. As outras duas soluções, **A.165** e **A.155**, são versões mais económicas do sistema.

SOLUÇÕES CONSTRUTIVAS

- Janelas e sacadas de abrir;
- Envidraçados fixos;
- Janelas projetantes;
- Abertura oscilo paralela e em harmónio;
- Compatível com o A.055 SISTEMA DE PORTAS;
- Soluções para substituição de janelas em madeira e montagem de janelas em paredes de blocos com isolamento na face interior.

CARATERÍSTICAS

- Poliamidas exclusivas Tecnoform Bautec
- Esquadros específicos em alumínio extrudido;
- Perfis com duplo tubular para esquadros de estrutura;
- Esquadros comuns para o aro fixo e móvel;
- Possibilidade de montagem de perfis de remate.

DIMENSIONAMENTO

Folhas móveis:

390 mm < altura < 2700 mm

390 mm < largura < 1400 mm

Valores condicionados pelas diferentes tipologias construtivas.

Medidas diferentes às apresentadas sujeitas a consulta.

FERRAGENS DE MANOBRA

Peso máximo por folha: 130 Kg (solução batente e oscilobatente);

Peso máximo por folha: 120 Kg (solução projetante);

Peso máximo por folha: 70 Kg (solução basculante).

Ferragens exclusivas ROTO.

Cremones Extrusal personalizado.

Valores condicionados pelas diferentes tipologias construtivas.

CAPACIDADE DO ENVIDRAÇAMENTO

A.175: 38 mm < espessura do vidro < 54 mm

- Junta perimetral para gola em espuma elastomérica;

- Vedante central com complemento bicomponente.

A.165: 30 mm < espessura do vidro < 46 mm

A.155: 20 mm < espessura do vidro < 36 mm

Vedantes em EPDM.

PERFIS DE ALUMÍNIO

Tecnicamente melhorados (RPT).

Comprimento standard: 6500 mm.

Espessura nominal geral dos perfis: 1.5 mm para janelas e 1.6 mm para sacadas.

Poliamida Technoform Bautec, TK 6.6, com 25% em fibra de vidro com largura de 34 mm (**A.175**), 24.8 mm (**A.165**) e 14.8 mm (**A.155**).

Liga EN AW-6060 [AlMgSi].

Composição química de acordo com a norma EN 573-3.

Tolerâncias nas dimensões e na forma segundo a norma EN 755-9.

Estado de propriedades mecânicas EPM T5 (*standard*) de acordo com a norma EN 755-2:

$R_{p0.2} \geq 120$ MPa.

$R_m \geq 160$ MPa.

$A_{50mm} \geq 6\%$.



TRATAMENTOS DE SUPERFÍCIE

Anodização - Acabamento acetinado ou polido.

Licença **QUALANOD** nº 1405, desde 1983.

Lacagem - acabamento brilhante, mate ou metalizado.

Licença **QUALICOAT** nº 808, desde 1995.

Lacagem com decoração tipo madeira -

Castanho, carvalho, teca, cerejeira e mogno.

Licença **QUALIDECO** nº PT002, desde 2005.

POLIAMIDAS :
TECHNOFORM BAUTEC



FERRAGENS :





Sistema A.100

DESEMPENHOS

ENSAIO DO TIPO INICIAL (ITT)

Boletim de ensaio nº 26/2012

Organismo notificado nº 0856

Janela composta por duas folhas giratórias de eixo vertical e um sistema oscilobatente na folha prioritária.

Dimensão: 1600 mm x 2000 mm

Versão: A.175



(A)

(E)

(V)

Boletim de ensaio nº 29/2012

Organismo notificado nº 0856

Janela composta por duas folhas giratórias de eixo vertical e um sistema oscilobatente na folha prioritária.

Dimensão: 1600 mm x 2000 mm

Versão: A.155 / A.165



(A)

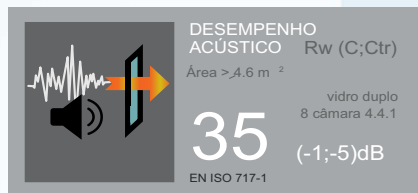
(E)

(V)

DESEMPENHO ACÚSTICO

Relatório nº ACU 459/2012

Organismo notificado nº 2211



Rw: Índice de isolamento sonoro (dB)

C: Termo de adaptação ao espectro do ruído rosa (ex.: Rw - C)

Ctr: Termo de adaptação ao espectro do tráfego (ex.: Rw-Ctr)

Valor declarado de referência (*) da atenuação acústica segundo o anexo B da norma NP EN 14351-1 +A1.

Vidro duplo (IGU)

Rw /C;Ctr) dB	área ≤ 2.7m ²	2.7m ² < área ≤ 3.6m ²	3.6m ² < área ≤ 4.6m ²	4.6 m ² < área
34 (-1 ; -4)	35 (-1 ; -4)	34 (-1 ; -4)	33 (-1 ; -4)	32 (-1 ; -4)
35 (-1 ; -4)	35 (-1 ; -4)	34 (-1 ; -4)	33 (-1 ; -4)	32 (-1 ; -4)
36 (-1 ; -4)	36 (-1 ; -4)	35 (-1 ; -4)	34 (-1 ; -4)	33 (-1 ; -4)
37 (-1 ; -5)	36 (-1 ; -4)	35 (-1 ; -4)	34 (-1 ; -4)	33 (-1 ; -4)
38 (-1 ; -4)	37 (-1 ; -4)	36 (-1 ; -4)	35 (-1 ; -4)	34 (-1 ; -4)
39 (-1 ; -4)	37 (-1 ; -4)	36 (-1 ; -4)	35 (-1 ; -4)	34 (-1 ; -4)
40 (-2 ; -5)	38 (-1 ; -5)	37 (-1 ; -5)	36 (-1 ; -5)	35 (-1 ; -5)

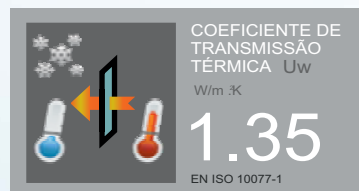
Janela Rw (C;Ctr) dB

COEFICIENTE DE TRANSMISSÃO TÉRMICA

Relatório nº HIG 706/2012; HIG 707/2012;

HIG 708/2012 e HIG 709/2012

Organismo notificado nº 2211



Uw: Coeficiente de transmissão térmica da janela (W/m²K)

Aw: Área da janela (m²)

Ug: Coeficiente de transmissão térmica do vidro (W/m²K)

Uf: Coeficiente de transmissão térmica dos perfis (W/m²K)

Ψ: Coeficiente de transmissão térmica linear (W/m²K)

(W/m²K)

Aw ≤ 2.3 m ²	Ug	Uf (médio)	Ψ	Uw
A.175.010 / A.175.020	1.0	1.75	0.042	1.35
A.165.010 / A.165.020	1.0	3.46	0.035	1.73
A.155.010 / A.155.020	1.0	3.46	0.035	1.73
Aw > 2.3 m ²				
A.175.040 / A.175.050	1.0	2.00	0.036	1.57
A.165.040 / A.165.050	1.0	3.64	0.035	1.93
A.155.040 / A.155.050	1.0	3.64	0.035	1.93

* Valor declarado de referência:

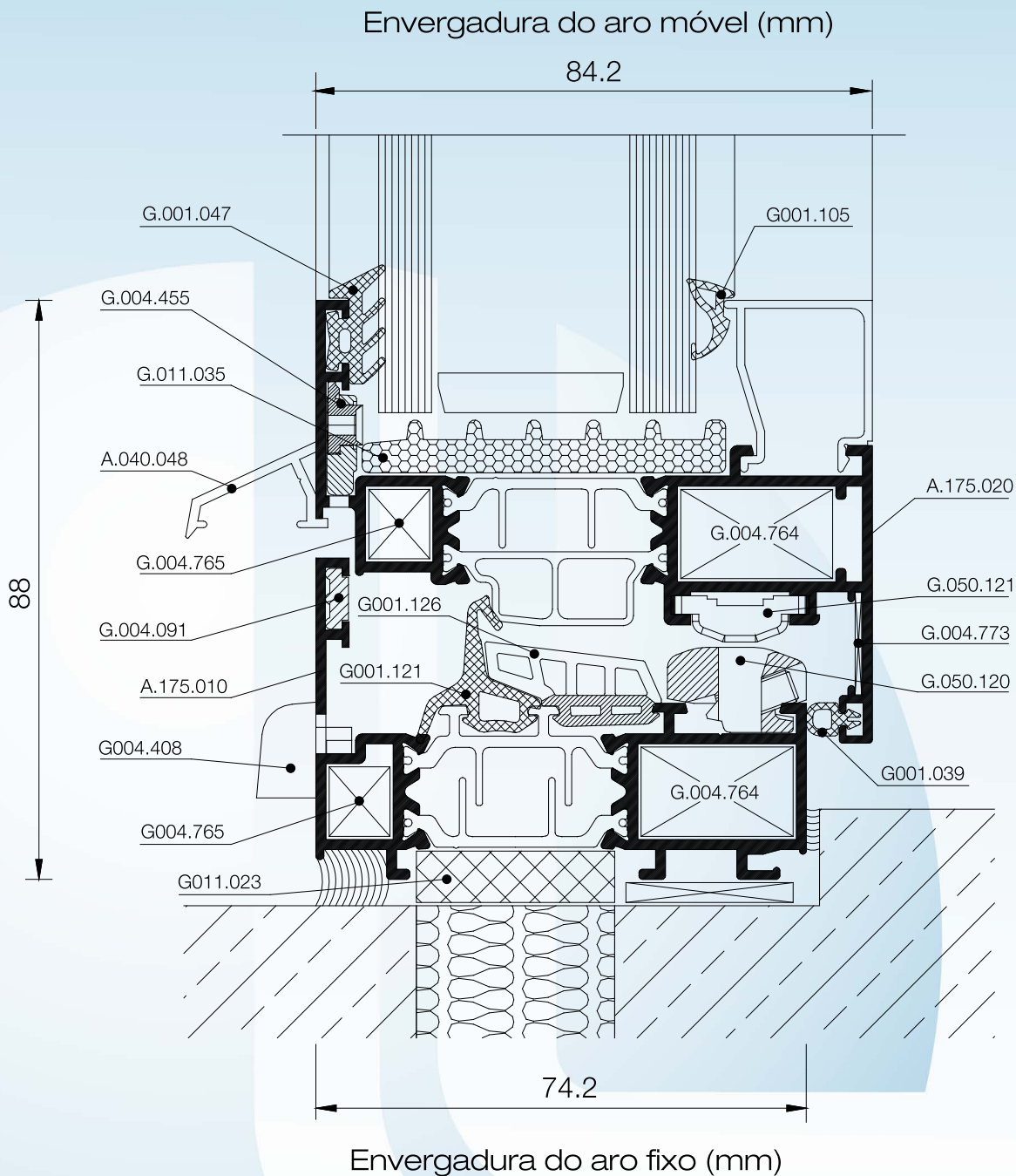
- Valor variável segundo a dimensão da janela, número de folhas, áreas dos perfis, tipo e espessura dos vidros aplicados. O valor referido não deve ser considerado como valor único de desempenho para as características representadas;

- Quando for solicitado um valor rigoroso ou relevante do coeficiente de transmissão térmica este deverá ser sempre obtido por cálculo ou ensaio para a(s) dimensão(s) do(s) vão(s) em questão.



Sistema A.100

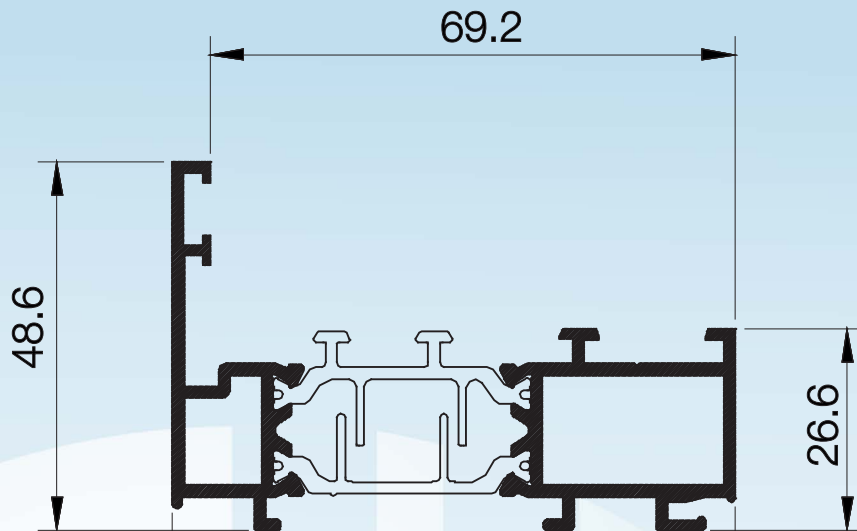
Modulo **A.175**



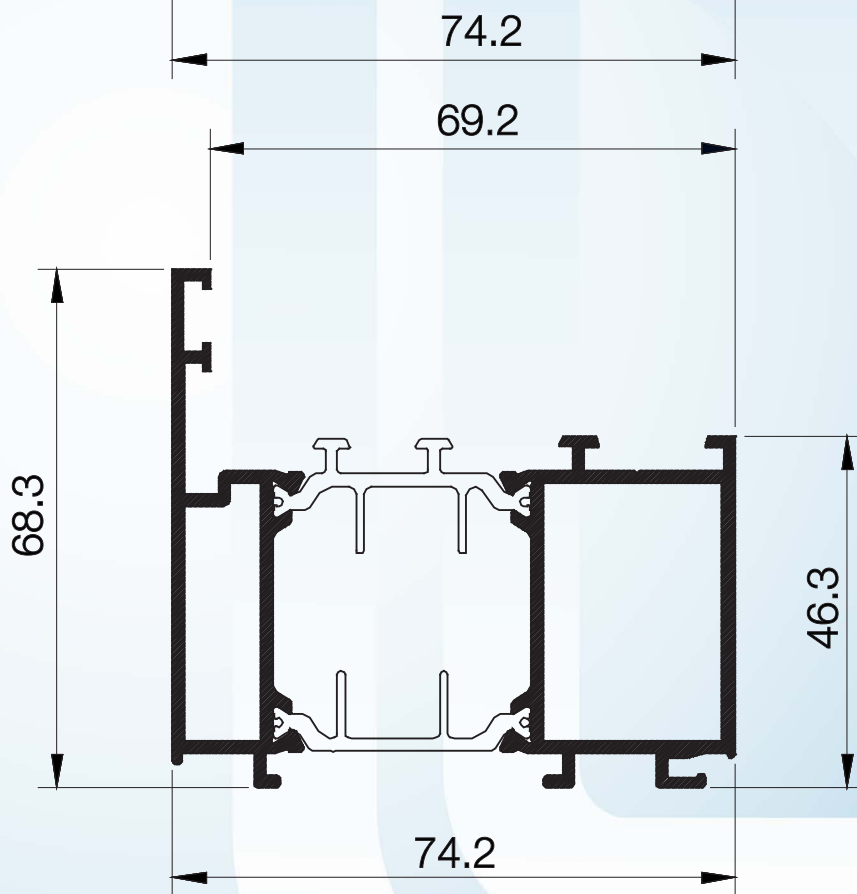


Sistema A.100

Modulo **A.175**



A.175.010



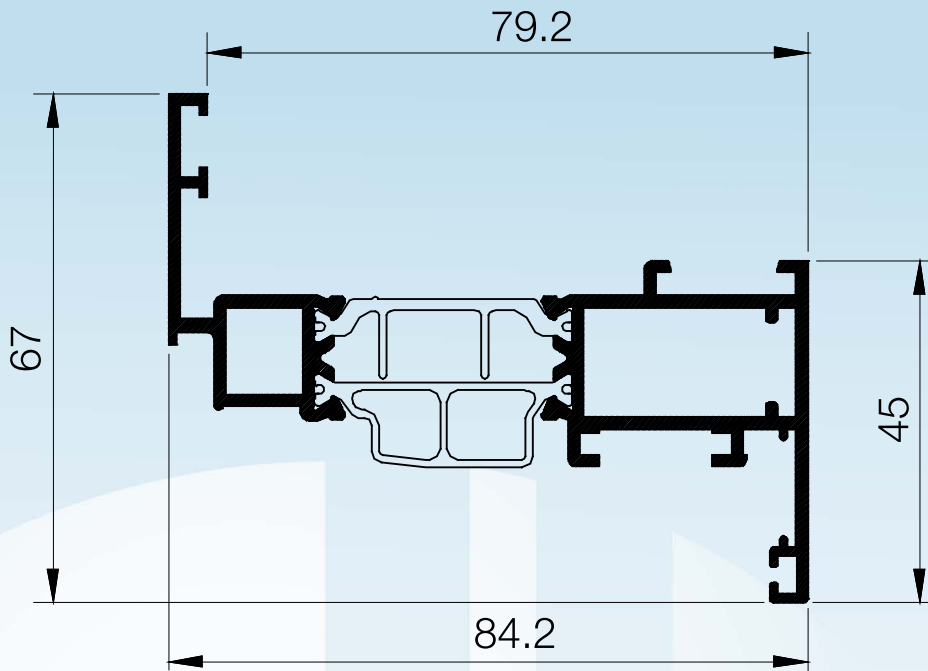
A.175.040



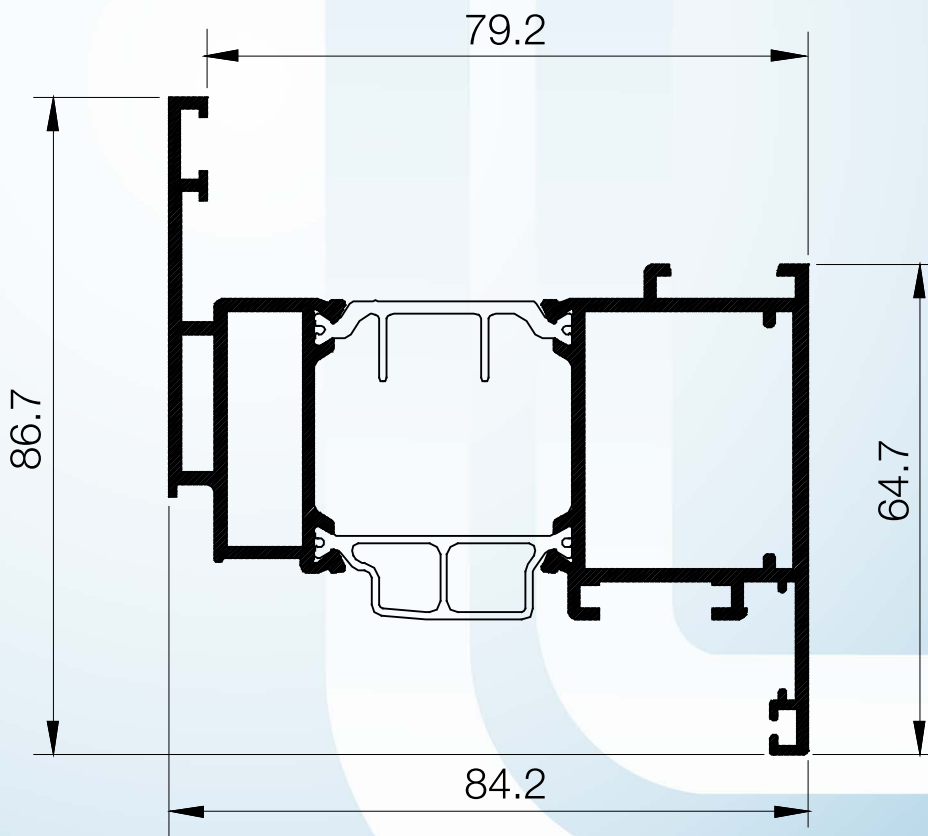


Sistema A.100

Modulo **A.175**



A.175.020



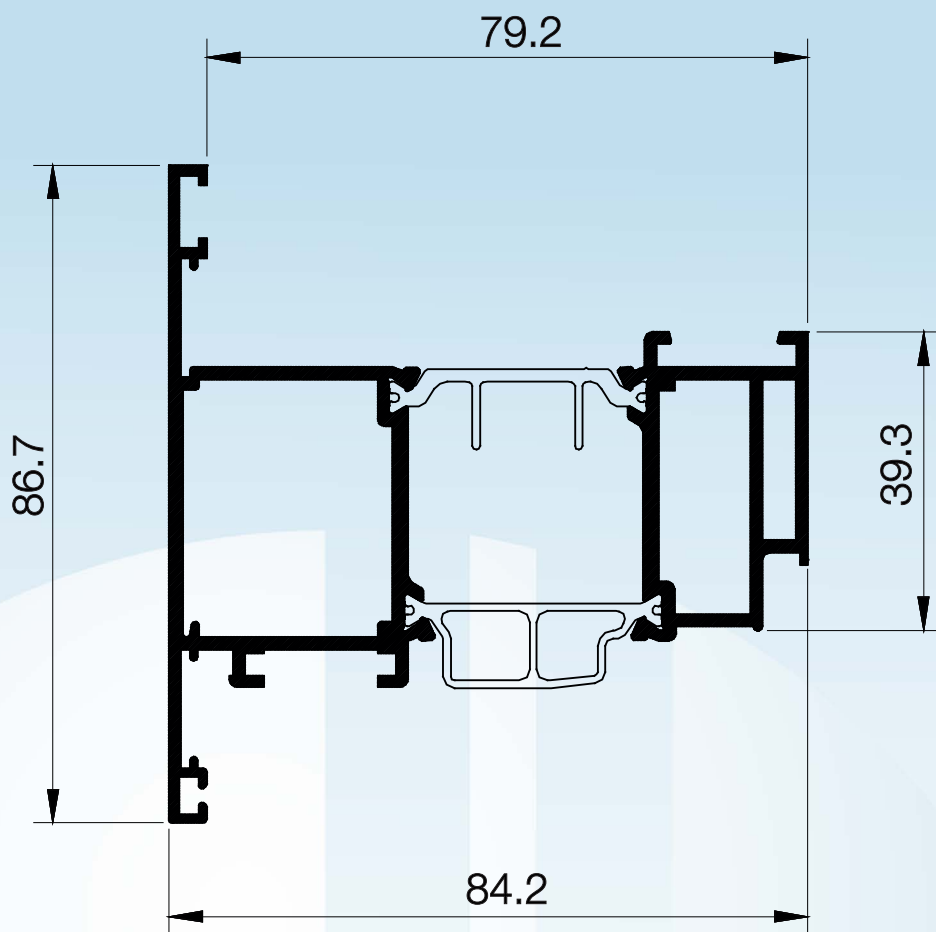
A.175.050



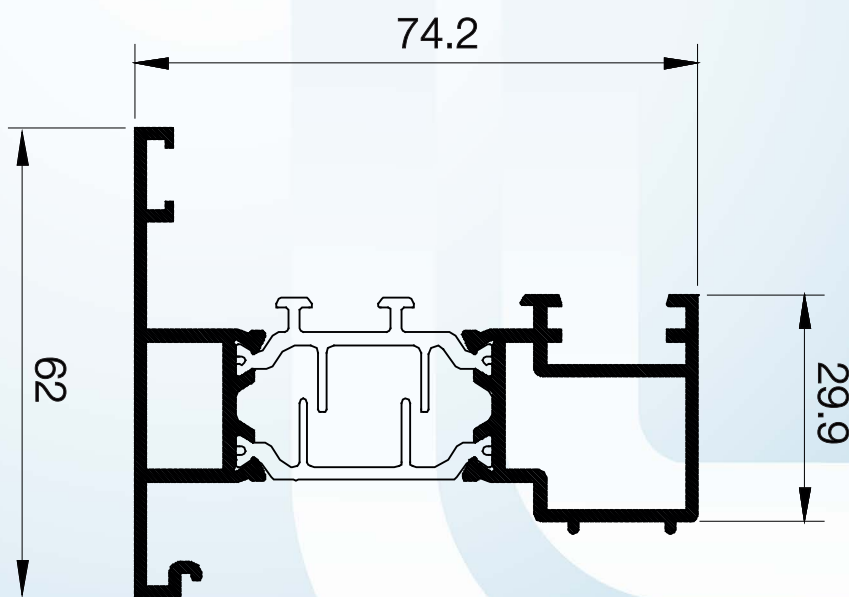


Sistema A.100

Modulo **A.175**



A.175.120



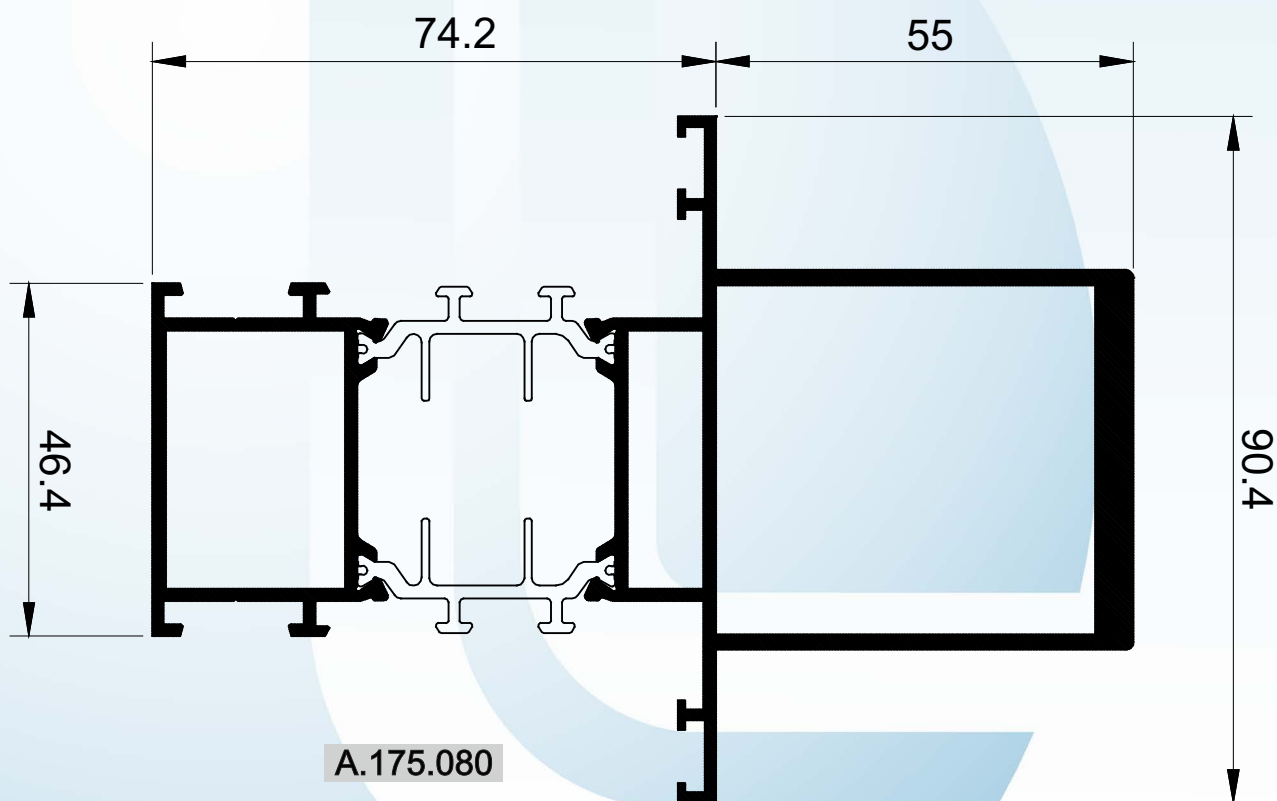
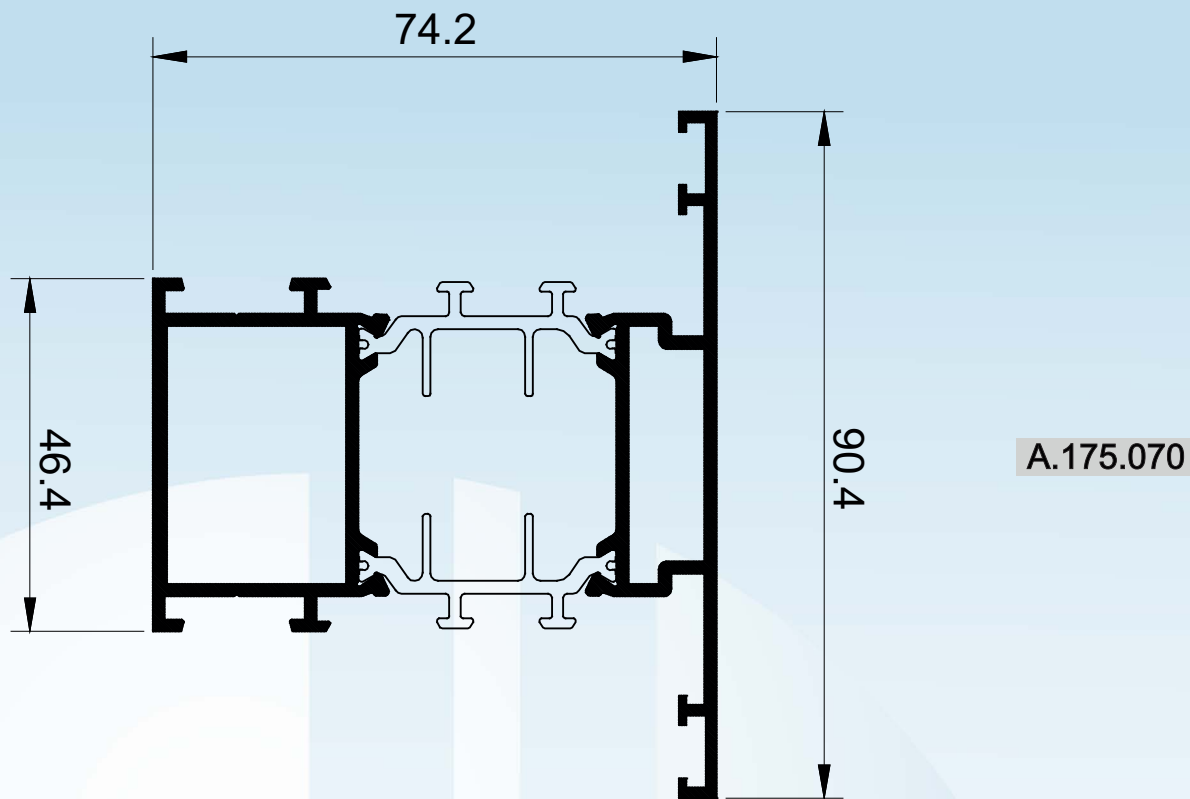
A.175.030





Sistema A.100

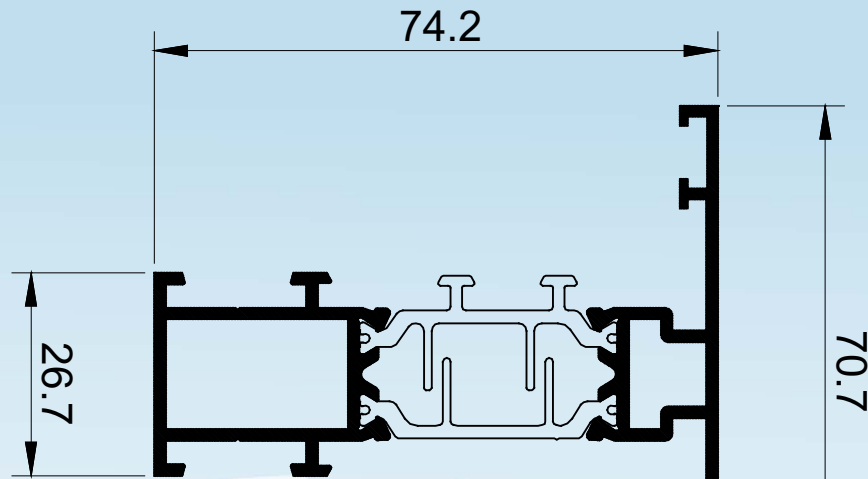
Modulo **A.175**



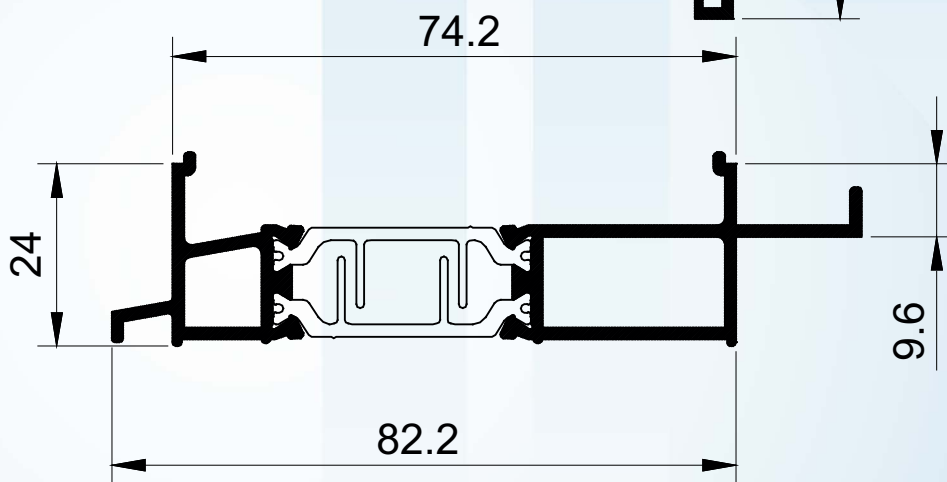


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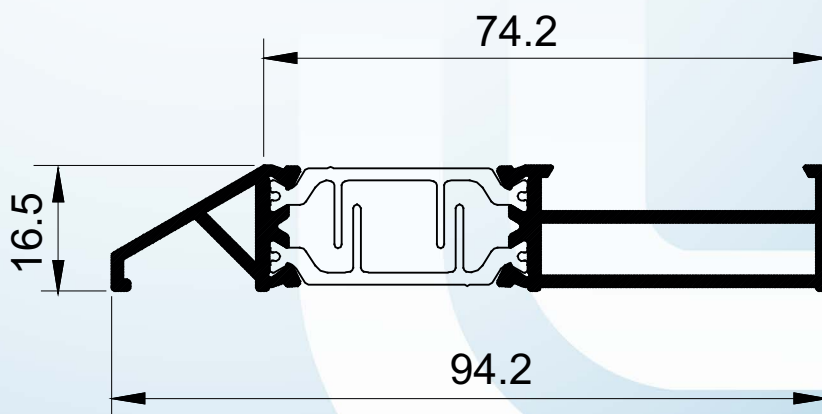
Modulo **A.175**



A.175.060



A.175.090



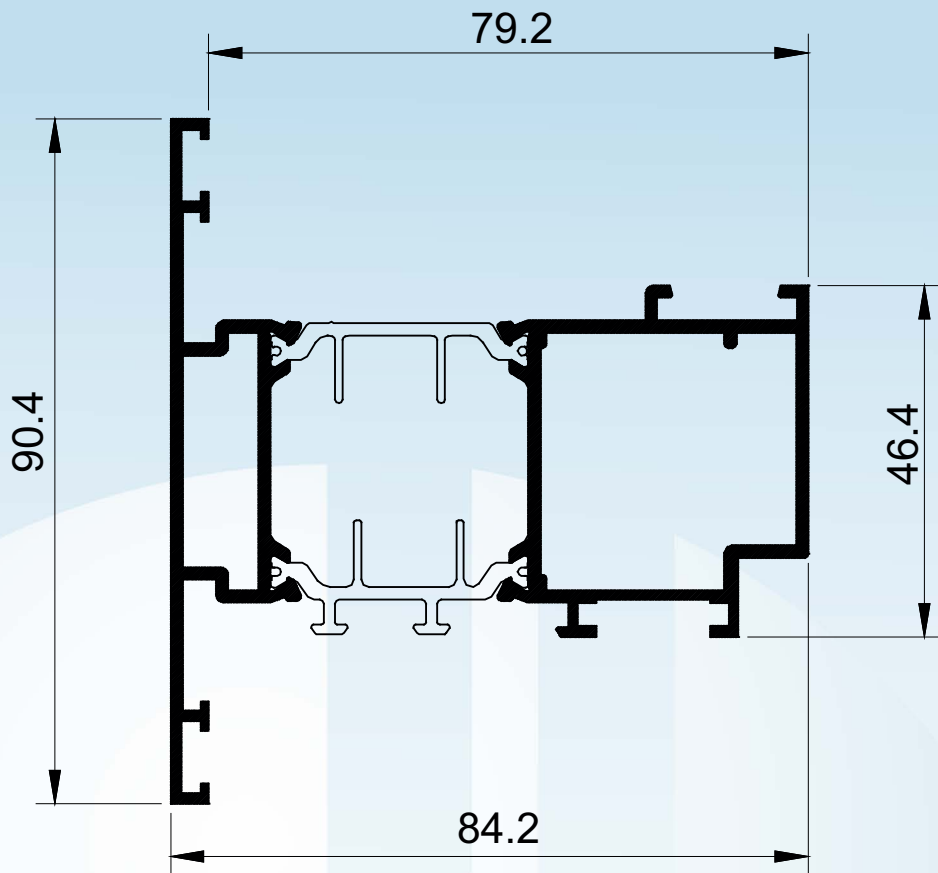
A.175.110



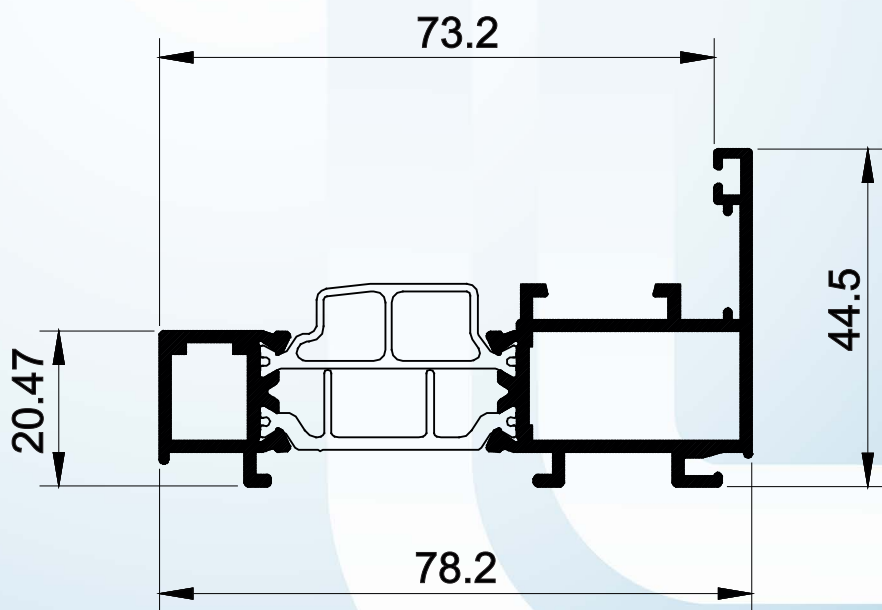


Sistema A.100

Modulo **A.175**



A.175.130



A.175.140

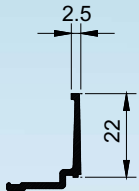




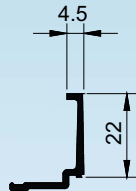
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Modulo **A.175**

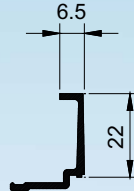
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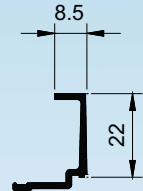
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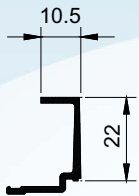
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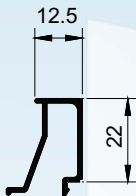
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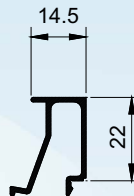
A.040.140



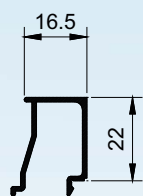
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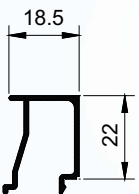
A.040.141



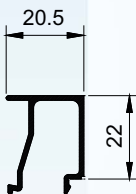
A.040.025



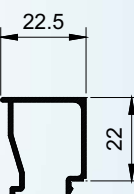
A.040.050



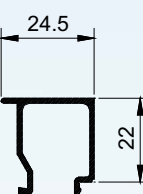
A.040.142



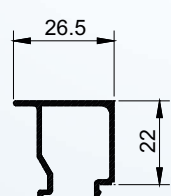
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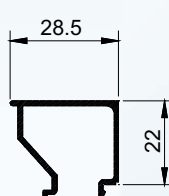
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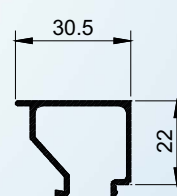
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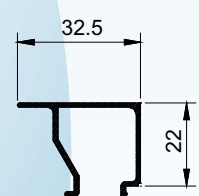
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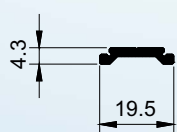
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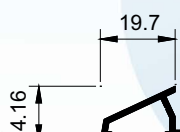
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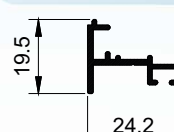
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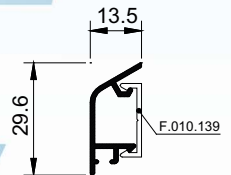
A.040.048



A.100.023



F.010.140



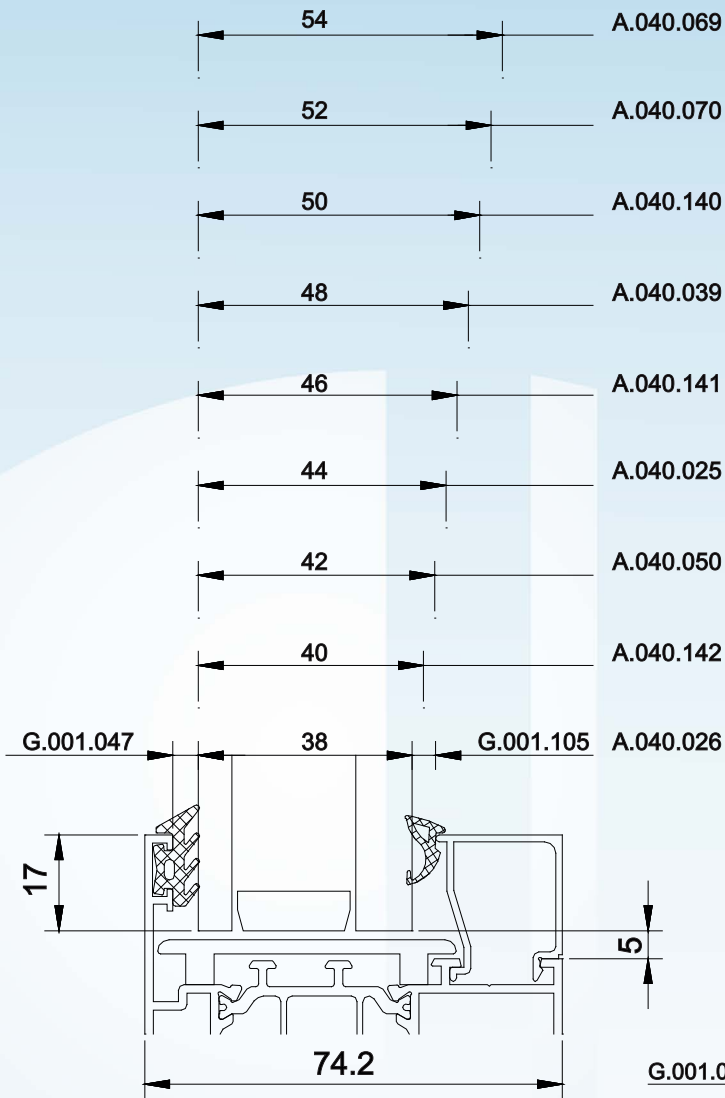


Sistema A.100

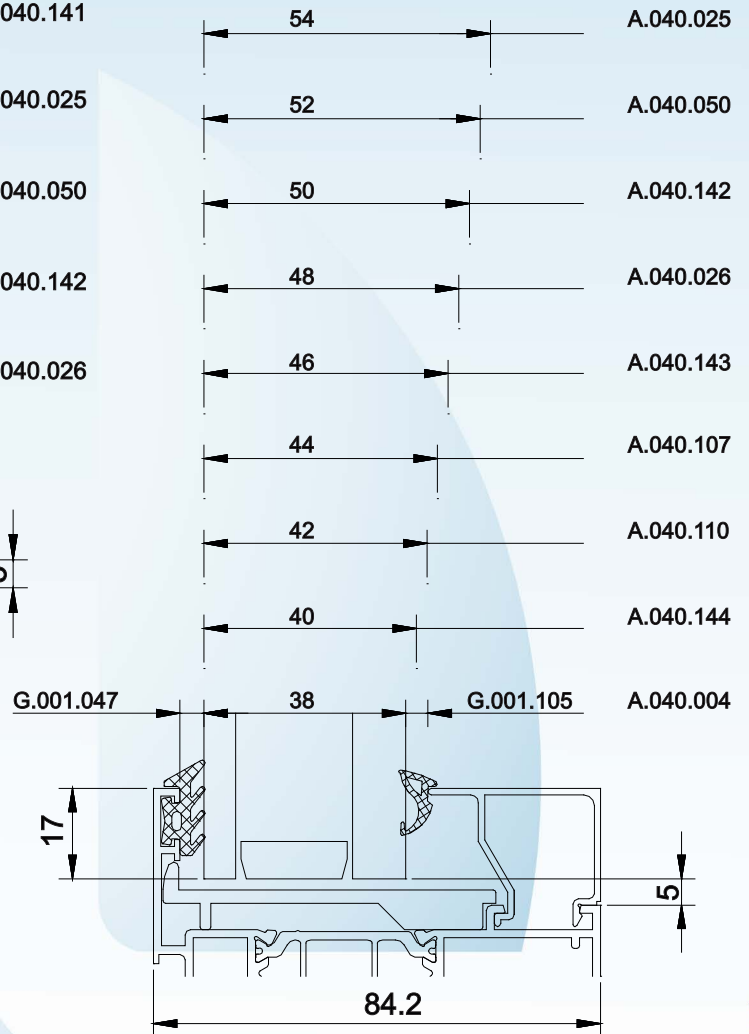
Modulo **A.175**

ENVIDRAÇAMENTO

Caixa livre depois dos vedantes



Aros Fixos



Aros Móveis

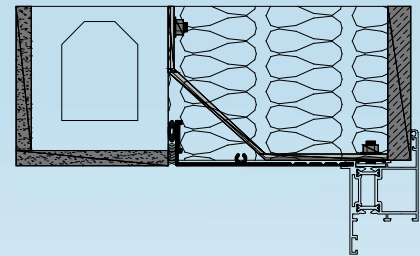
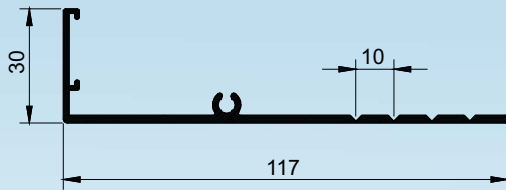




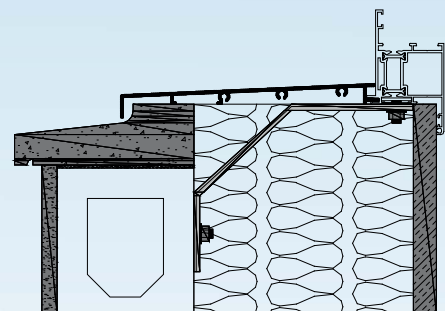
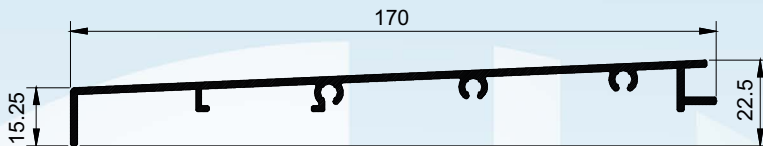
Sistema A.100

Modulo **A.175**

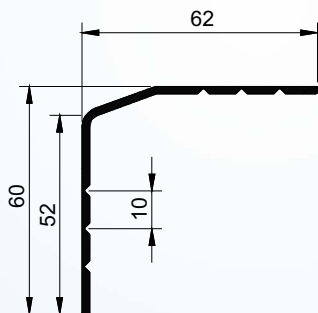
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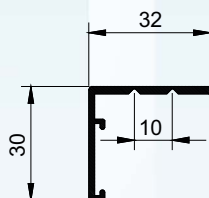
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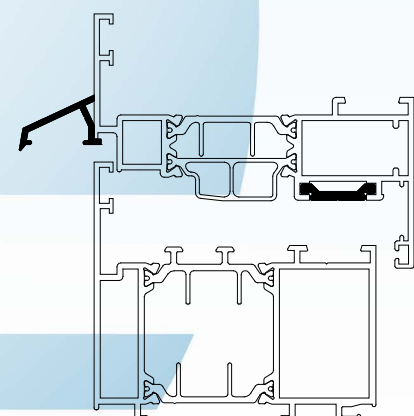
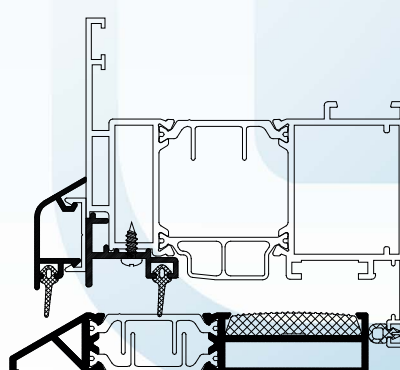
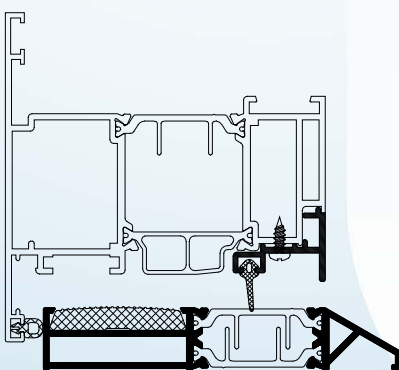
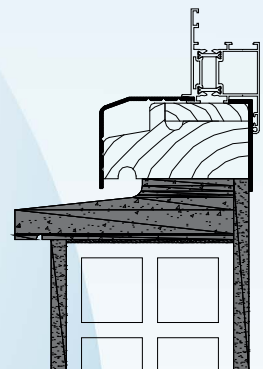
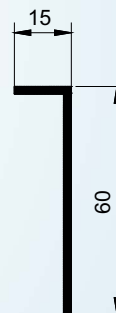
F.009.137



F.009.138



D.006.011



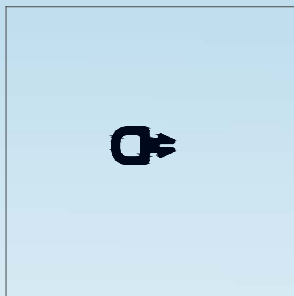


Sistema A.100

Modulo A.175

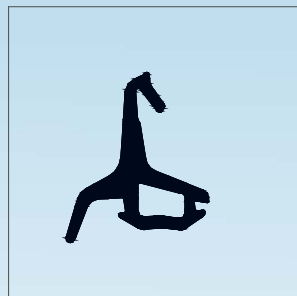
G.001.039 X.43.0001

Vedante interior batente
EPDM



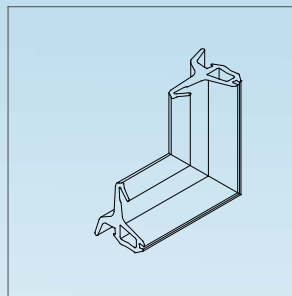
G.001.121 X.41.0034

Vedante central A.100
EPDM



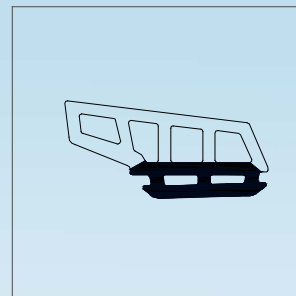
G.001.122 X.41.0036

Canto vulcanizado p/ G.001.121
EPDM



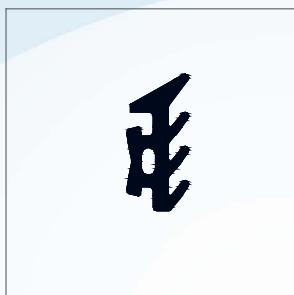
G.001.126 X.41.0039

Complemento vedante central A.175
EPDM



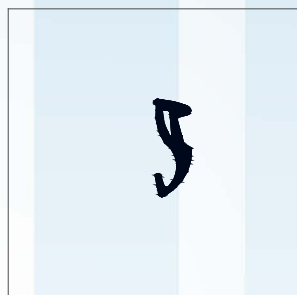
G.001.047 X.44.0002

Vedante exterior para vidro
EPDM



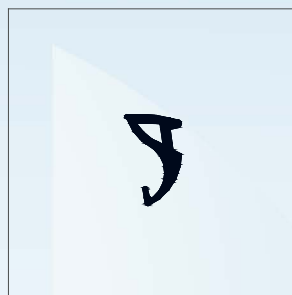
G.001.104 X.44.0033

Vedante interior 3.5mm para vidro
EPDM



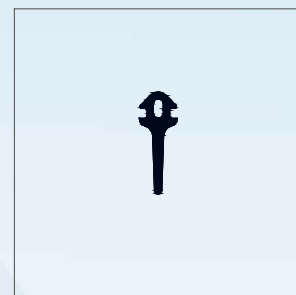
G.001.105 X.44.0047

Vedante interior 4.5mm para vidro
EPDM



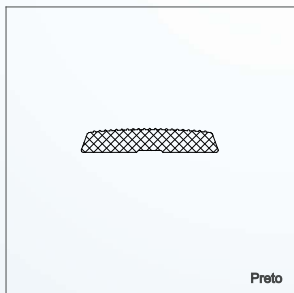
G.001.032 X.46.0002

Vedante para pingadeira F.010.014
EPDM



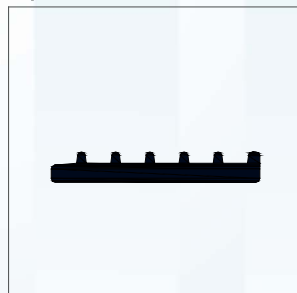
G.004.239 X.46.0016

Calço para perfil soleira
PVC



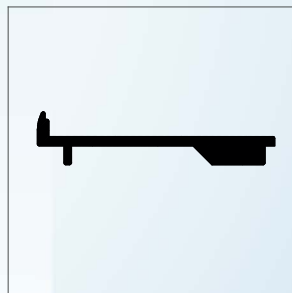
G.011.035 X.48.0016

Junta p/ gola do vidro A.175
Espuma elastomérica



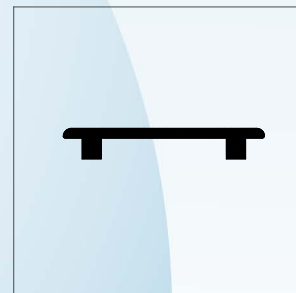
G.015.027 X.59.0077

Calço para vidro AM: A.175
Nylon



G.015.030 X.59.0078

Calço para vidro AF: A.175
Nylon



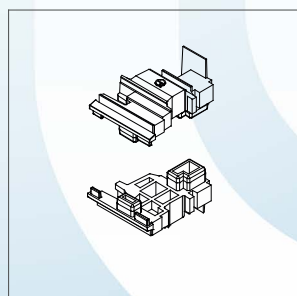
G.011.007 X.48.0004

Junta autocolante (rolo)



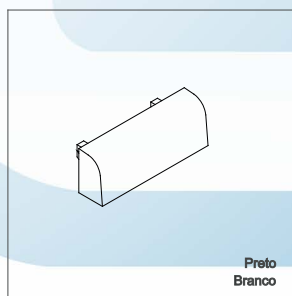
G.001.125 X.50.0111

Conjunto topos para A.175.060
EPDM



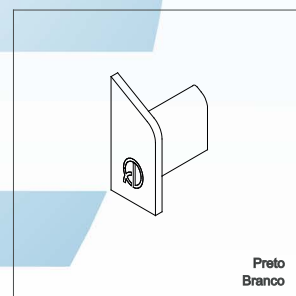
G.004.408 X.52.0073

Goteira



G.004.389 X.50.0035

Topo pingadeira



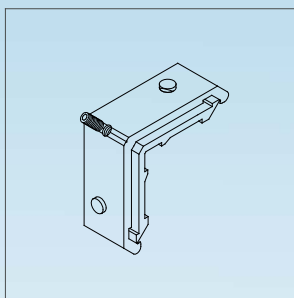


Sistema A.100

Modulo A.175

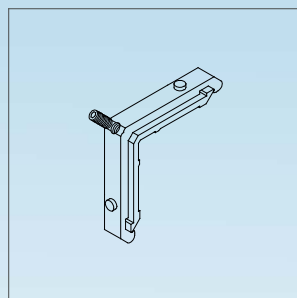
G.004.764 X.13.0031

Esquadro (23.5 mm x 14.5 mm)
Alumínio extrudido



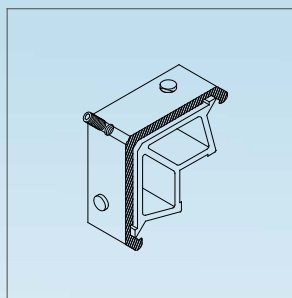
G.004.765 X.13.0032

Esquadro (9.5 mm x 11.5 mm)
Alumínio extrudido



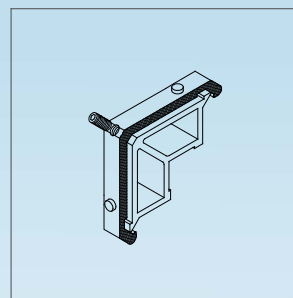
G.004.777 X.13.0033

Esquadro (23 mm x 34 mm)
Alumínio extrudido



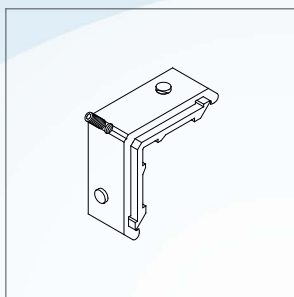
G.004.778 X.13.0034

Esquadro (9.5 mm x 11.5 mm)
Alumínio extrudido



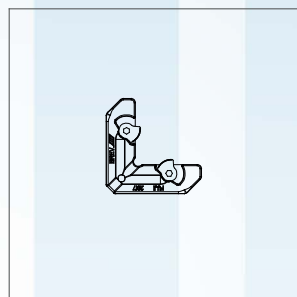
G.004.216 X.13.0035

Esquadro (27 mm x 14 mm)
Alumínio extrudido



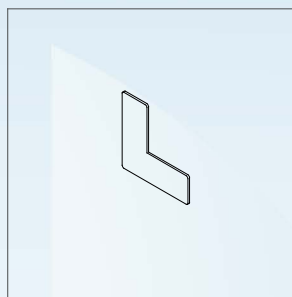
G.004.455 X.17.0042

Esquadro alinhamento: A.175



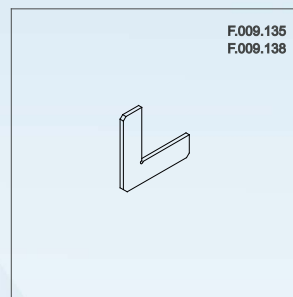
G.004.773 X.17.0067

Esquadro alinhamento
Inox



G.004.483 X.17.0046

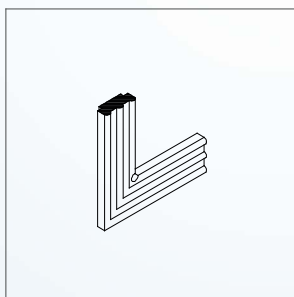
Esquadro alinhamento
Inox



F.009.135
F.009.138

G.004.091 X.17.0004

Esquadro alinhamento
Nylon



G.004.088 X.18.0012

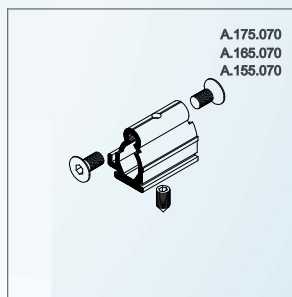
União de travessa com 14 mm
Alumínio extrudido



A.175.060
A.165.060
A.155.060

G.004.781 X.18.0035

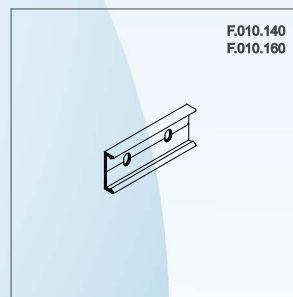
União de travessa: 33.5 mm
Alumínio extrudido



A.175.070
A.165.070
A.155.070

G.004.425 X.54.0048

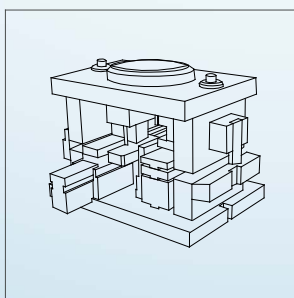
Fixador pingadeira



F.010.140
F.010.160

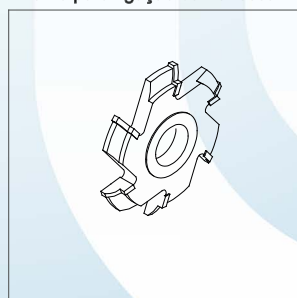
G.007.063 X.90.0049

Cortante



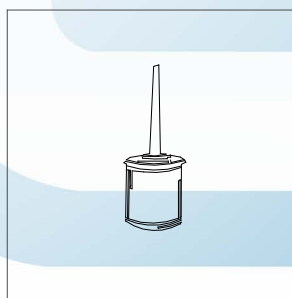
G.007.0061 X.93.0007

Conjunto de fresas
Entalhe para ligação da travessa



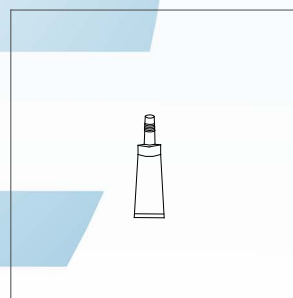
G.012.080 X.99.9002

Cola para esquadrias



G.012.070 X.99.9004

Cola para vedantes, juntas e topos
em EPDM



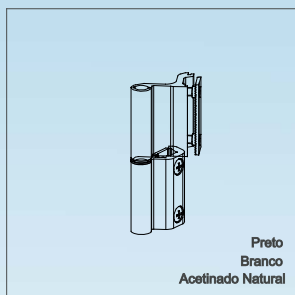


Sistema A.100

Modulo A.175

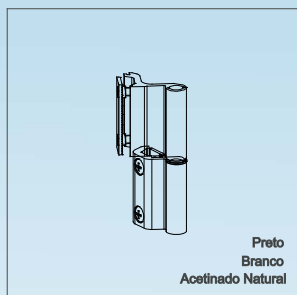
G.050.105 X.20.0068

Dobradiça esquerda
2-50 Kg / 3-70 Kg



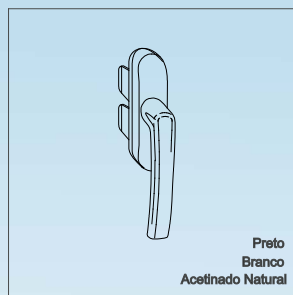
G.050.104 X.20.0067

Dobradiça direita
2 - 50 Kg / 3-70 Kg



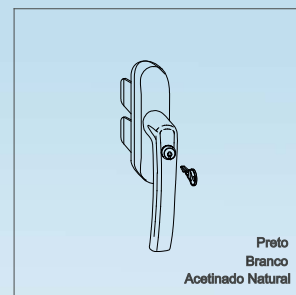
G.050.102 X.30.0101

Cremona 2G



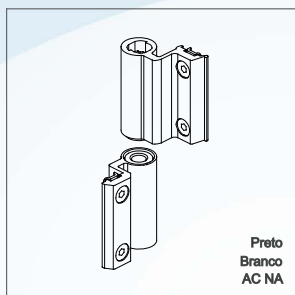
G.050.103 X.30.0102

Cremona 2G com chave



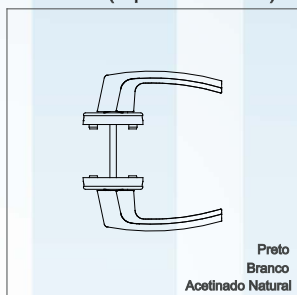
G.004.596 X.20.0060

Dobradiça para porta
Peso < 120 Kg



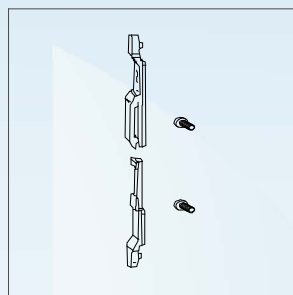
G.050.132 X.30.0103

Cremona duplo para porta
ROTOLINE (espelhos incluídos)



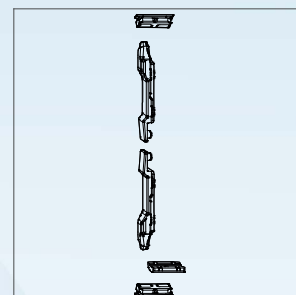
G.050.119 X.60.8138

Jogo de conexão cremona 2G



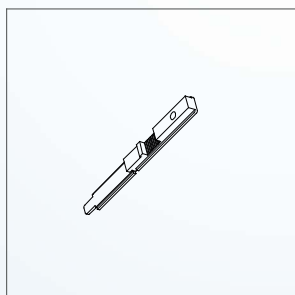
G.050.122 X.60.8141

Conjunto ponteiros, engate e
deslizador



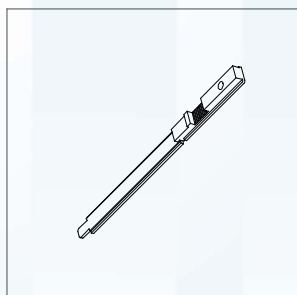
G.004.100 X.32.0005

Fecho segunda folha: 160 mm



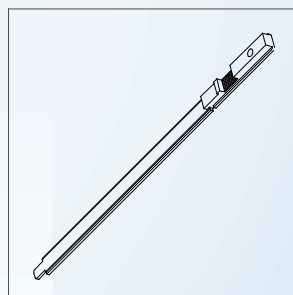
G.004.108 X.60.1007

Fecho segunda folha (OB): 240 mm



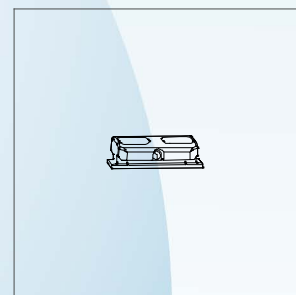
G.004.101 X.32.0006

Fecho segunda folha (OB): 350 mm



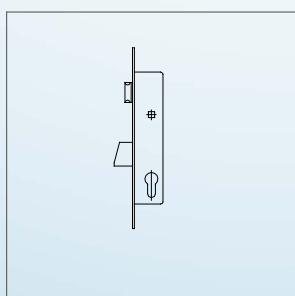
G.050.120 X.60.8139

Engate para ponteira



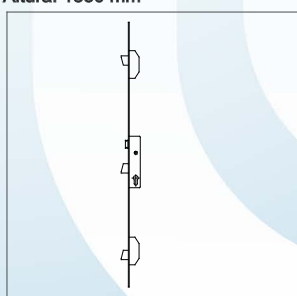
G.018.011 X.38.2005

Fechadura com um ponto de fecho
(opcional)



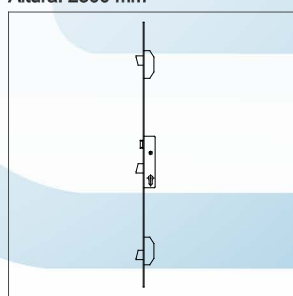
G.018.030 X.38.2034

Fechadura com três pontos de fecho
Altura: 1850 mm



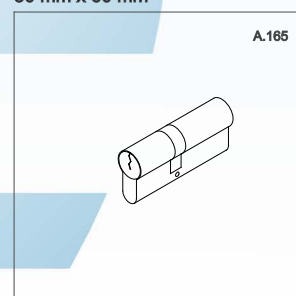
G.018.031 X.38.2037

Fechadura com três pontos de fecho
Altura: 2300 mm



G.018.073 X.38.2035

Cilindro EU segurança
30 mm x 60 mm





Sistema A.100

Modulo A.175

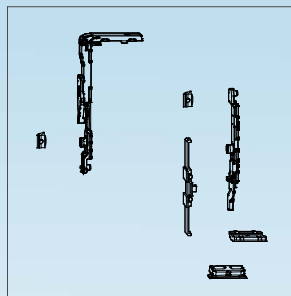
G.050.100 **X.60.8124**
Cremone 1G



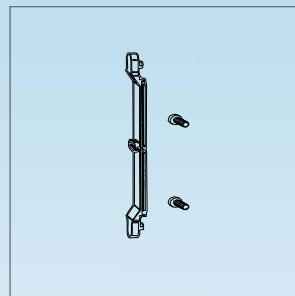
G.050.101 **X.60.8144**
Cremone 1G com chave



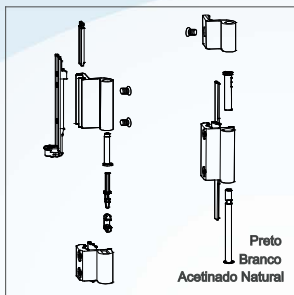
G.050.110 **X.60.8129**
Conjunto base OB



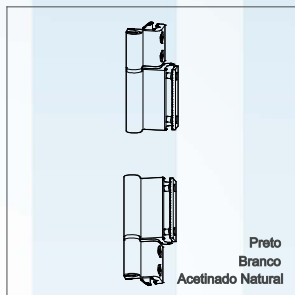
G.050.118 **X.60.8137**
Jogo de conexão cremone 1G



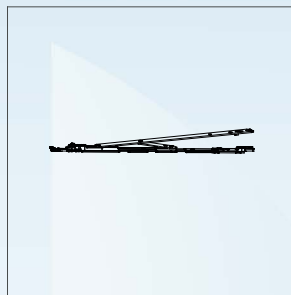
G.050.106 **X.60.8125**
Jogo de dobradiças OB:
80 Kg



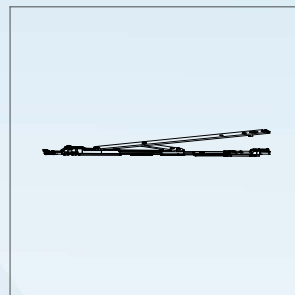
G.050.107 **X.60.8126**
Jogo de dobradiças segunda folha
OB: 80 Kg



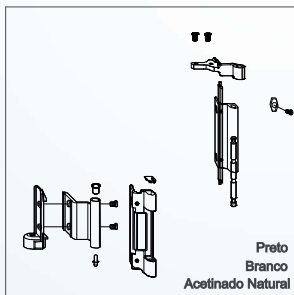
G.050.108 **X.60.8127**
Compasso 390 OB: 80 Kg



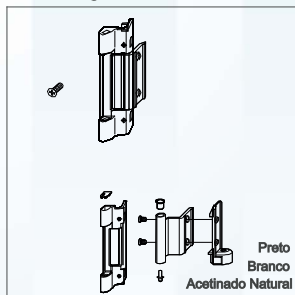
G.050.109 **X.60.8128**
Compasso 700 OB: 80 Kg



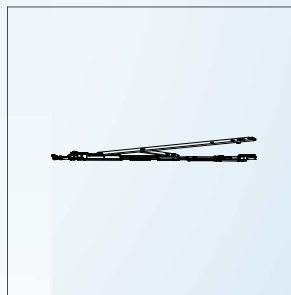
G.050.114 **X.60.8133**
Jogo de dobradiças OB: 130 Kg



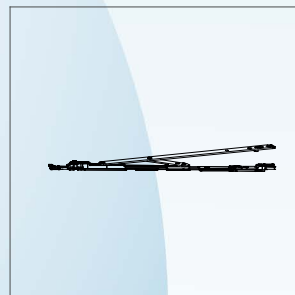
G.050.115 **X.60.8134**
Jogo de dobradiças segunda folha
OB: 130 Kg



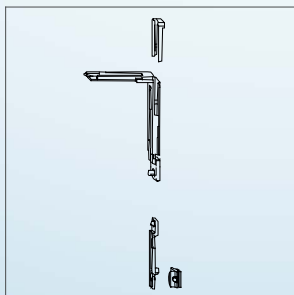
G.050.116 **X.60.8135**
Compasso 390 OB: 130 Kg
390 mm - 700 mm



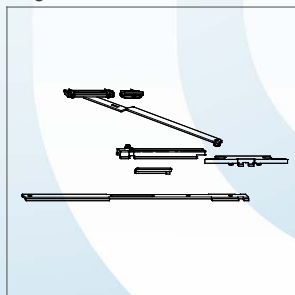
G.050.117 **X.60.8136**
Compasso 700 OB: 130 Kg
701 mm - 1600 mm



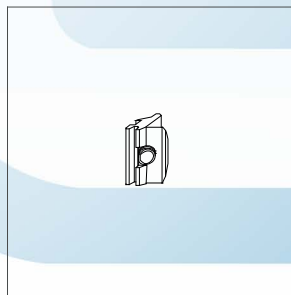
G.050.111 **X.60.8130**
Ângulo de reencvio OB



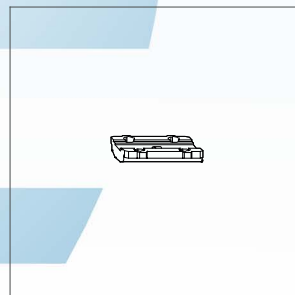
G.050.112 **X.60.8131**
Compasso suplementar OB
Largura > 1301 mm



G.050.123 **X.60.8142**
Ponto de fecho - aro fixo



G.050.121 **X.60.8140**
Placa deslizadora

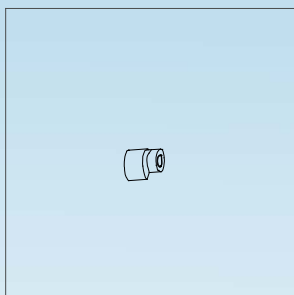




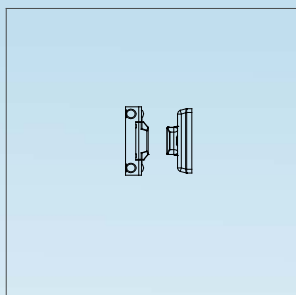
Sistema A.100

Modulo A.175

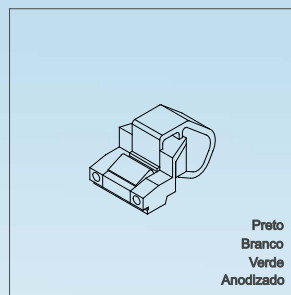
G.050.124 **X.60.8143**
Ponto de fecho - aro móvel



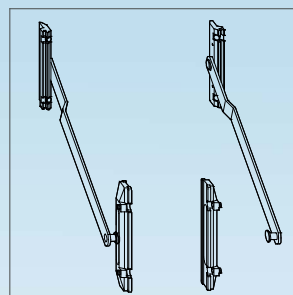
G.050.113 **X.60.8132**
Limitador de flecha



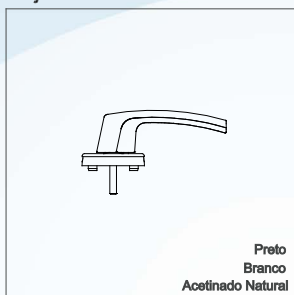
G.004.173 **X.36.0001**
Fecho para janela basculante



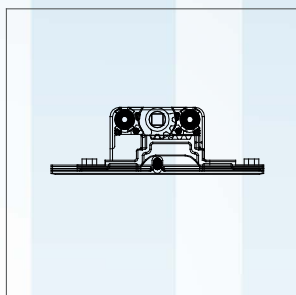
G.050.126 **X.37.0030**
Compasso basculante: 130 Kg



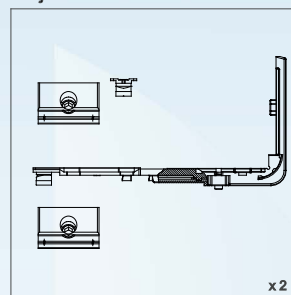
G.050.131 **X.30.0104**
Manete projetante ROTOLINE
Projetante



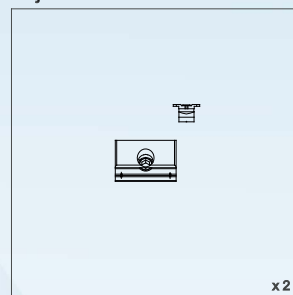
G.050.127 **X.35.0035**
Mecanismo projetante A.100



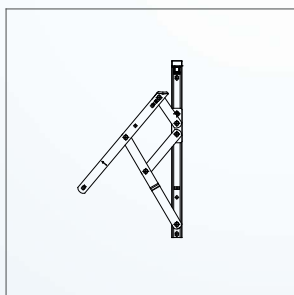
G.050.129 **X.35.0036**
Conjunto ângulo de reenvio
Projetante



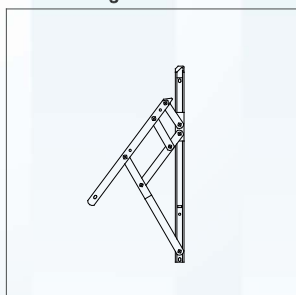
G.050.128 **X.33.0089**
Conjunto ponto de fecho
Projetante



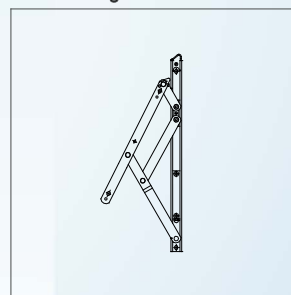
G.004.426 **X.37.0031**
Compasso projetante
Peso < 20 Kg



G.004.379 **X.37.0005**
Compasso projetante
Peso < 24 Kg



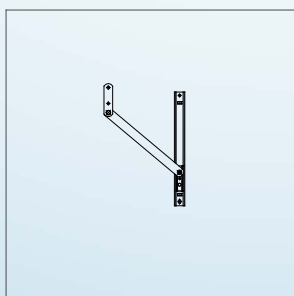
G.004.393 **X.37.0006**
Compasso projetante
Peso < 65 Kg



G.004.747 **X.37.0032**
Compasso projetante
Peso < 120 Kg



G.004.749 **X.37.0033**
Limitador de abertura: 200 mm
Janela projetante



G.004.750 **X.37.0034**
Limitador de flecha para janela
projetante

