

inova[®]





**PESQUISA E TECNOLOGIA
TRADUZIDAS EM BELEZA
E CONFORTO**

- Design arrojado que permite inúmeras alternativas construtivas;
- Suporta altas cargas de esforços de usos e pressão dos ventos;
- Perfis para folhas com e sem baguetes já estão preparados para receber vidros de até 6 mm ou venezianas;
- Guarnições em EPDM apresentam um ótimo desempenho de vedação na instalação dos vidros;
- Os trilhos podem ser justos ou ter abas arredondadas mais amplas, facilitando a sua limpeza;
- Maior vão de luminosidade;
- Linha protegida por patentes requeridas pela Alcoa;
- Usinagens simétricas reduzem o tempo de montagem e aumentam o ganho em produtividade.





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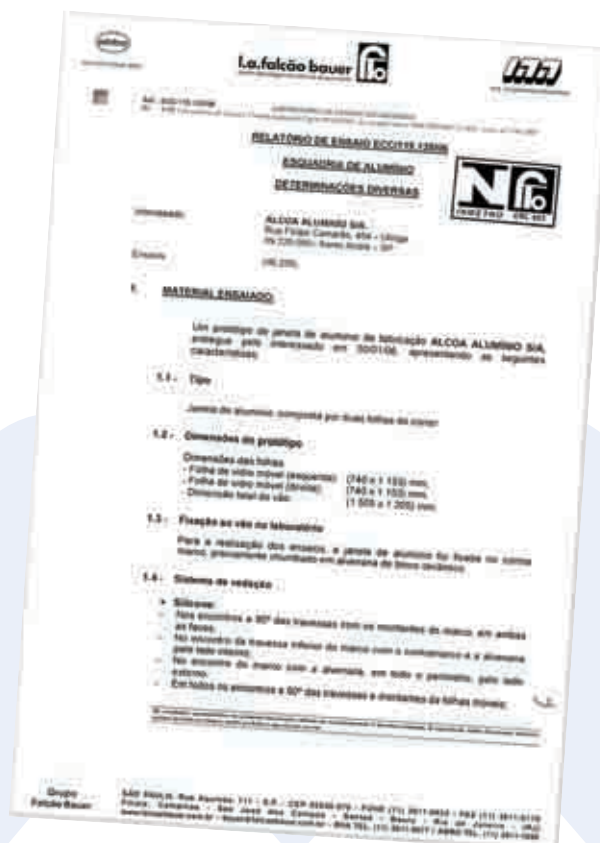
faleconsoco@alcoa.com.br

Catálogo Técnico Linha Inova GMPE 027 SET 07



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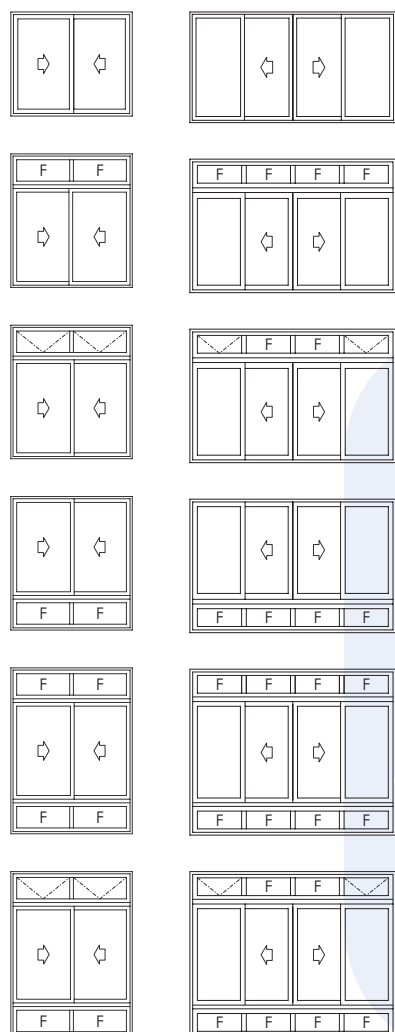
Tipologia	Número do Certificado	Ensaio Realizado	Laboratório
Janela de correr 2 folhas	ECC - 115135/06 ECC - 128850/06	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer
Janela de correr 2 folhas integradas	ECC - 120959/06 ECC - 128850/06	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer
Janela de correr 3 folhas Veneziana	ECC - 130533/07 ECC - 130534/07	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer
Janela de correr 4 folhas	ECC - 130535/07 ECC - 130536/07	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer
Janela de correr 6 folhas Veneziana	ECC - 130537/07 ECC - 130538/07	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer
Janela Maxim-ar	ECC - 130540/07 ECC - 129735/07	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer
Porta de correr 2 folhas	ECC - 114346/06 ECC - 128851/06	NBR6485, NBR6486, NBR6487 NBR10821	Falcão Bauer Falcão Bauer

NBR6485 - Verificação da Penetração de Ar
 NBR6486 - Verificação da Estanqueidade à água
 NBR6487 - Comportamento sob Cargas Uniformemente Distribuídas
 NBR10821 - Verificação da Resistência às operações de manuseio

Os Relatórios de Ensaios completos encontram-se em
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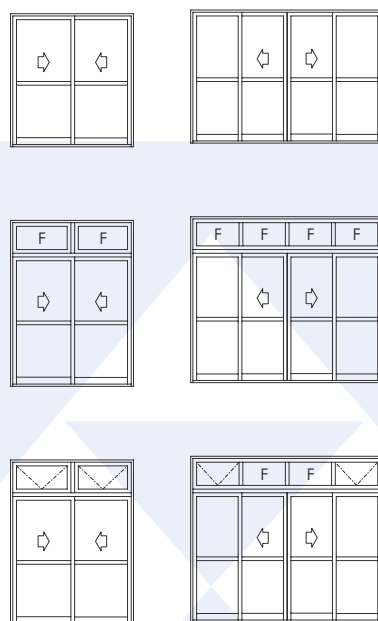
Janelas de Correr

2 Planos - 2 e 4 Folhas



Portas de Correr

2 Planos - 2 e 4 Folhas



Janelas e Portas de Correr

3 Planos - 3 e 6 Folhas



Janela e Porta Integradas

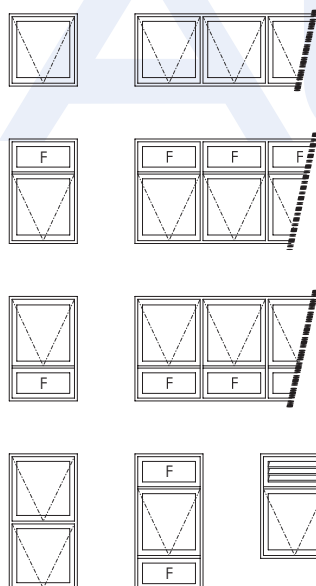


Quadros Fixos



Janelas Maxim-ar

1 e Múltiplas Folhas



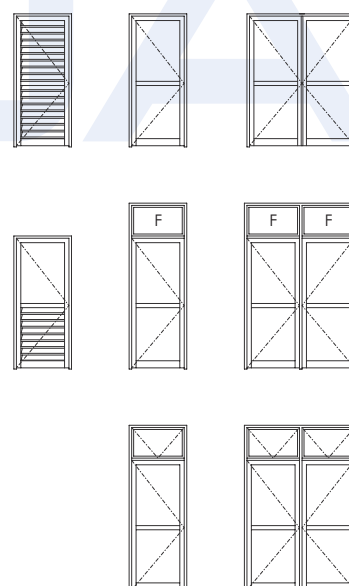
Portinholas de Giro

1 e 2 Folhas



Portas de Giro

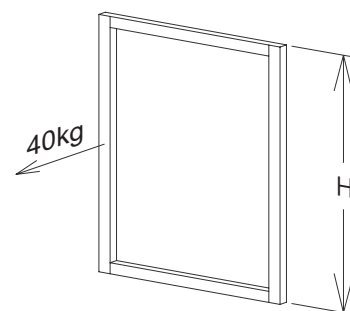
1 e 2 Folhas



Limites por esforço de uso

Folha de Correr - Janela

Liga 6060 T5

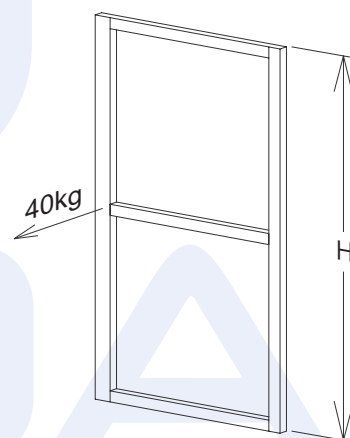


Perfil	IN085	IN006	IN006
Vidro	4mm	4mm	6mm
H máximo (Medida de folha)	1150	1300	1400

Limites por esforço de uso

Folha de Correr - Porta

Liga 6060 T5

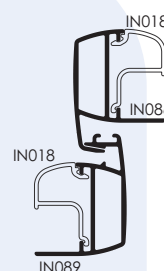
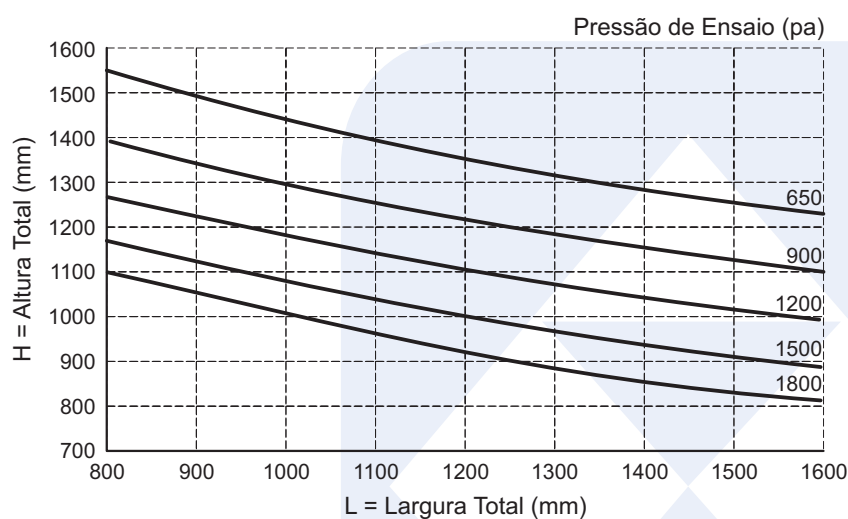
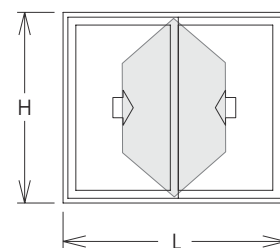


Perfil	IN006	IN011	IN079
Vidro	6mm	6mm	6mm
H máximo (Medida de folha)	2100	2300	2500

Janela de Correr 2 folhas Slim

Liga 6060 T5

Verificar limitação por esforço de uso.
Ver página 6



Área = 166 mm²
Jx = 14915 mm⁴
Wx = 788 mm³

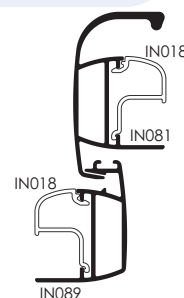
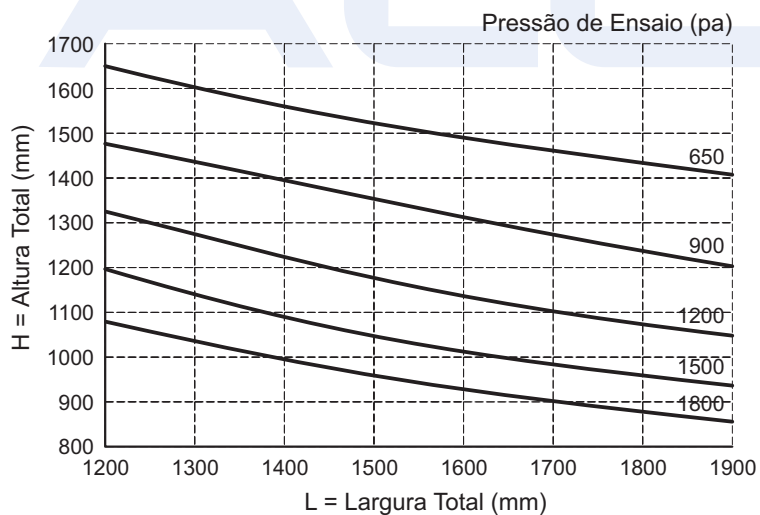
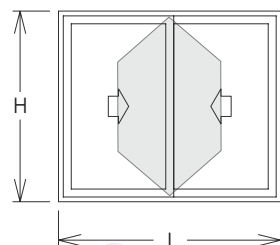
Área = 177 mm²
Jx = 16716 mm⁴
Wx = 954 mm³

J total = 31631 mm⁴

Janela de Correr 2 folhas Slim

Liga 6060 T5

Verificar limitação por esforço de uso.
Ver página 6



Área = 231 mm²
Jx = 39606 mm⁴
Wx = 1569 mm³

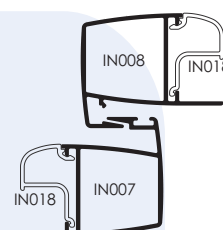
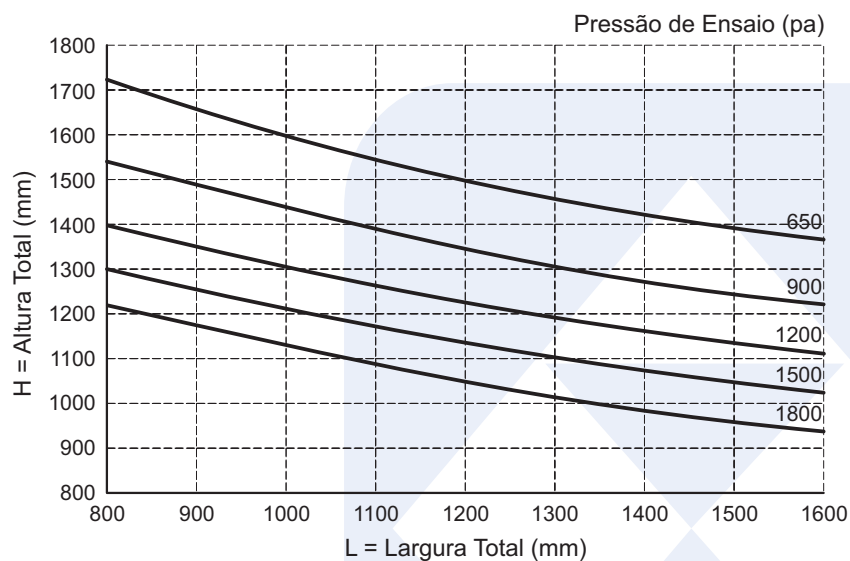
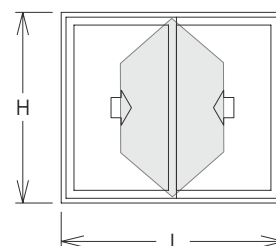
Área = 177 mm²
Jx = 16716 mm⁴
Wx = 954 mm³

J total = 56322 mm⁴

Janela de Correr 2 folhas

Liga 6060 T5

Verificar limitação por esforço de uso.
Ver página 6



Área = 206 mm²
Jx = 20066 mm⁴
Wx = 1193 mm³

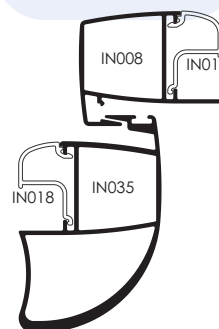
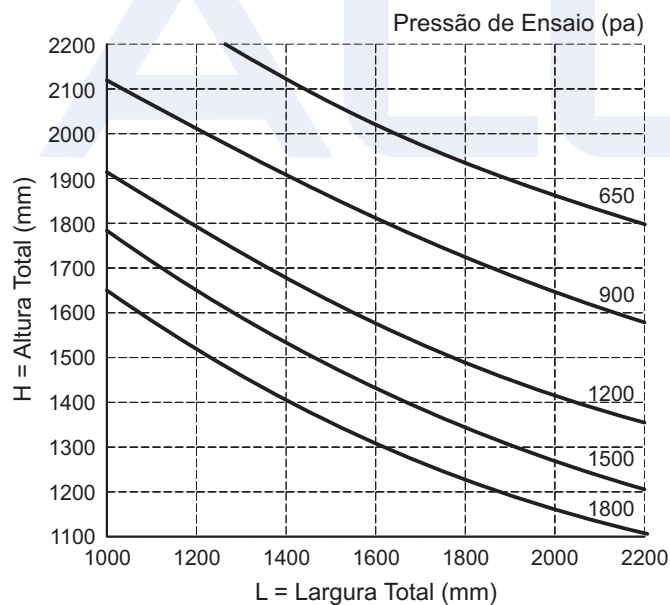
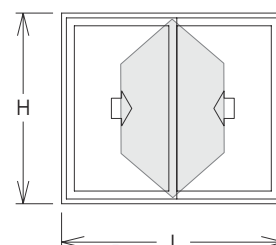
Área = 212 mm²
Jx = 22205 mm⁴
Wx = 1296 mm³

J total = 42271 mm⁴

Janela de Correr 2 folhas Reforço externo

Liga 6060 T5

Verificar limitação por esforço de uso.
Ver página 6



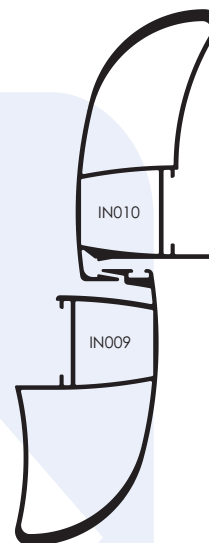
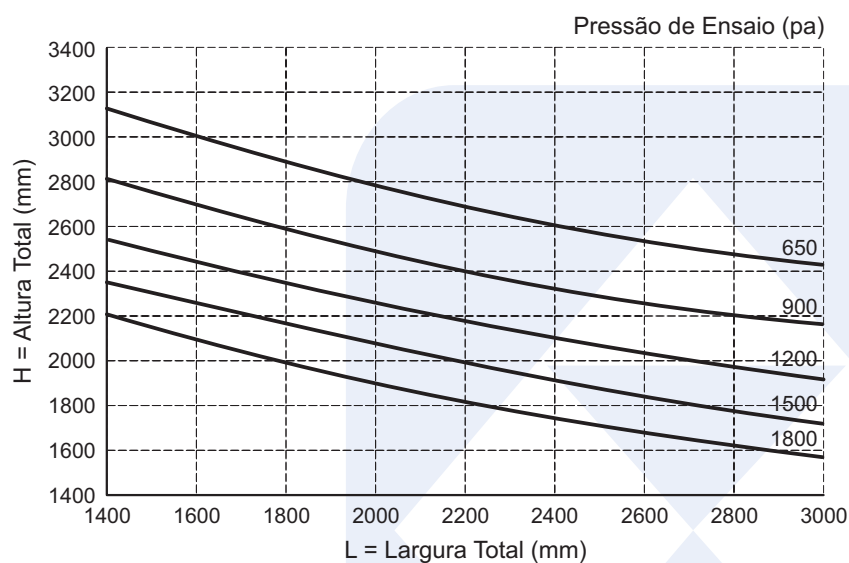
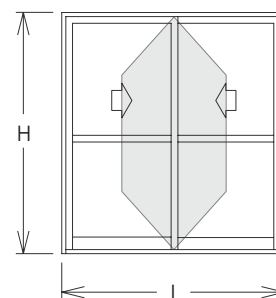
Área = 156 mm²
Jx = 16016 mm⁴
Wx = 1005 mm³

Área = 344 mm²
Jx = 123632 mm⁴
Wx = 3855 mm³

J total = 139648 mm⁴

Porta de Correr 2 folhas Reforços externo e interno

Liga 6060 T5



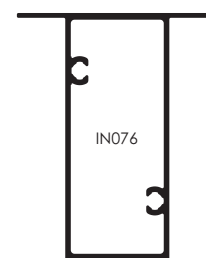
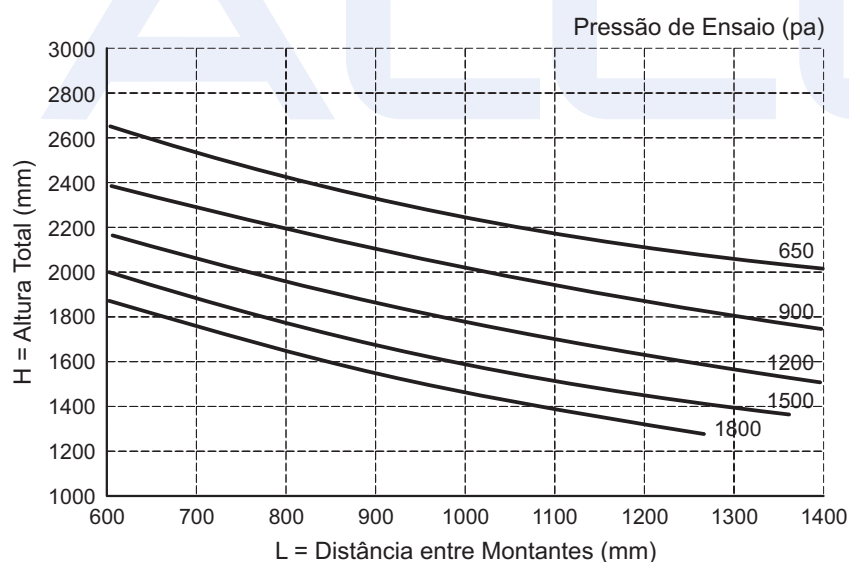
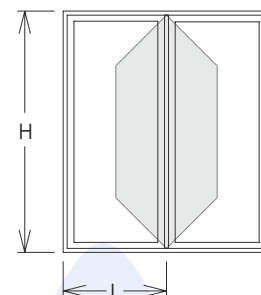
Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

Área = 375 mm²
Jx = 223109 mm⁴
Wx = 5800 mm³

J total = 449895 mm⁴

Junção de módulos Marco 2 planos

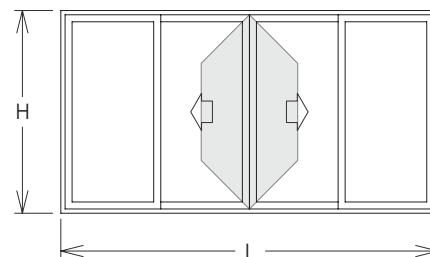
Liga 6060 T5



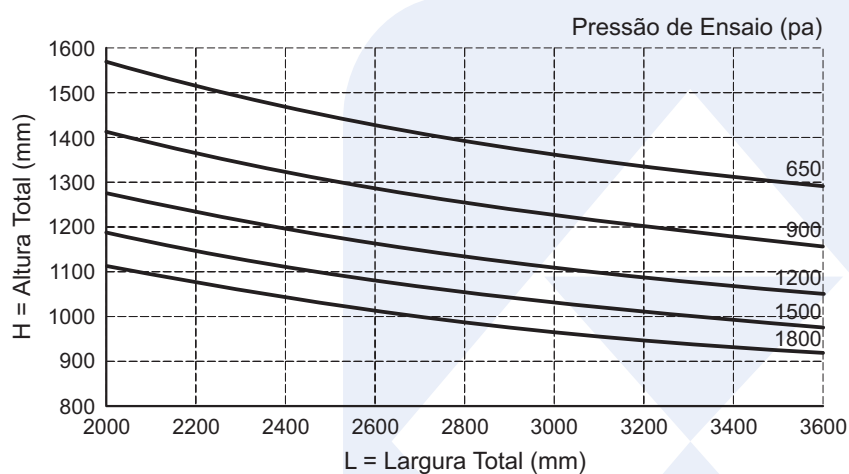
Área = 380 mm²
Jx = 237367 mm⁴
Wx = 6763 mm³

Janela de Correr 4 folhas

Liga 6060 T5



Verificar limitação por esforço de uso.
Ver página 6



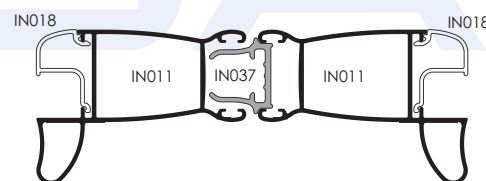
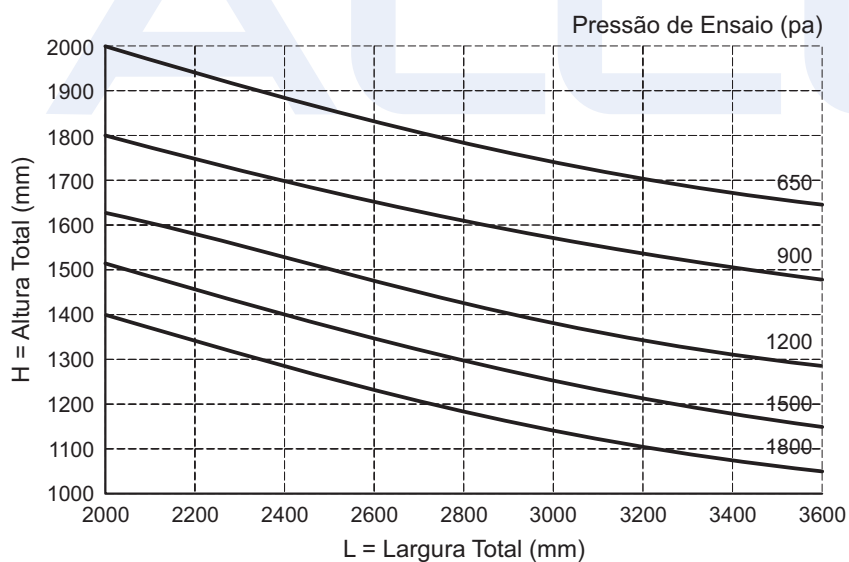
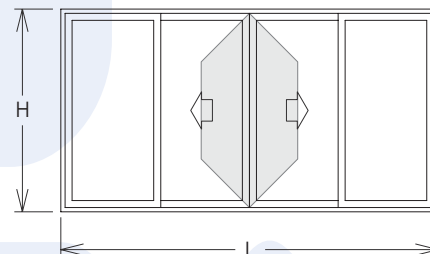
Área = 217 mm²
Jx = 18650 mm⁴
Wx = 1484 mm³

Área = 295 mm²
Jx = 21791 mm⁴
Wx = 1732 mm³

J total = 40441 mm⁴

Janela de Correr 4 folhas Reforço externo

Liga 6060 T5



Área = 284 mm²
Jx = 40179 mm⁴
Wx = 1534 mm³

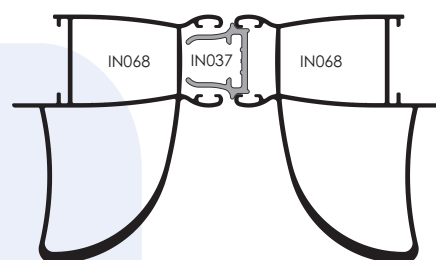
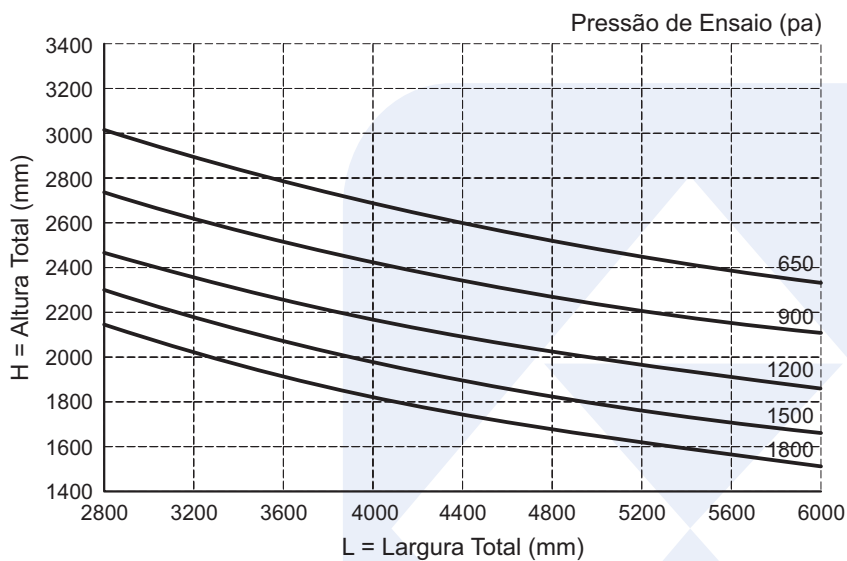
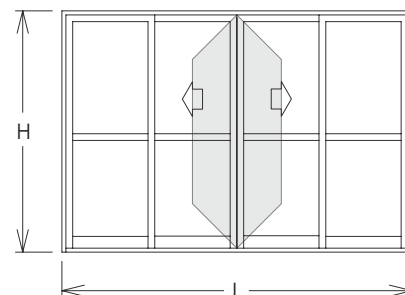
Área = 361 mm²
Jx = 44034 mm⁴
Wx = 1640 mm³

J total = 84213 mm⁴

Porta de Correr 4 folhas

Reforço externo

Liga 6060 T5



Área = 383 mm²
Jx = 191347 mm⁴
Wx = 5572 mm³

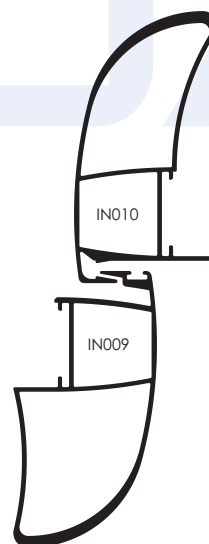
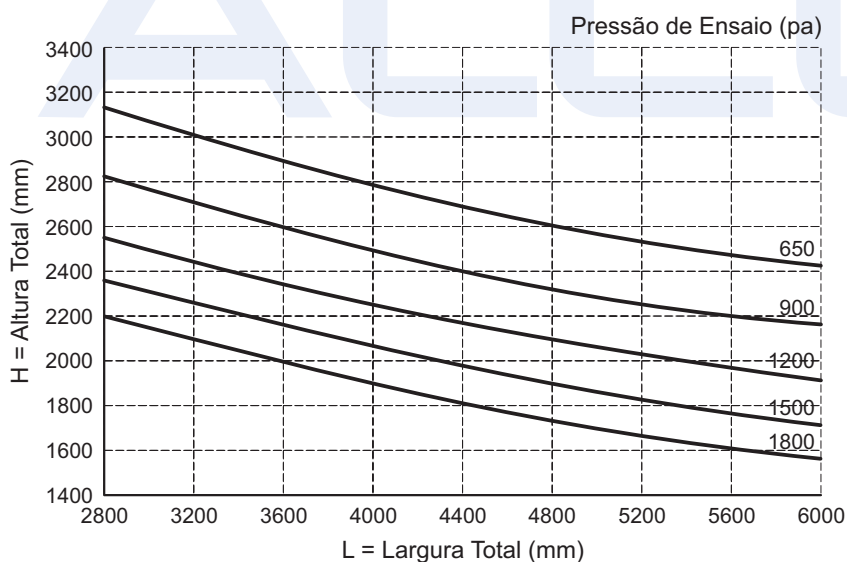
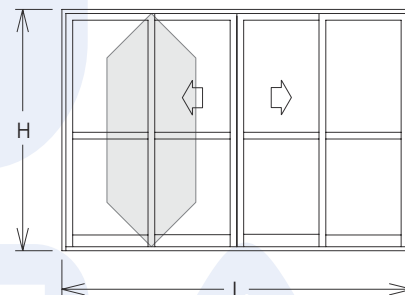
Área = 460 mm²
Jx = 220308 mm⁴
Wx = 5841 mm³

J total = 411655 mm⁴

Porta de Correr 4 folhas

Reforços externo e interno

Liga 6060 T5



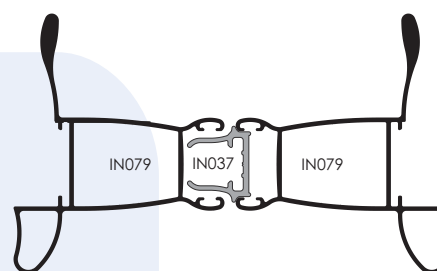
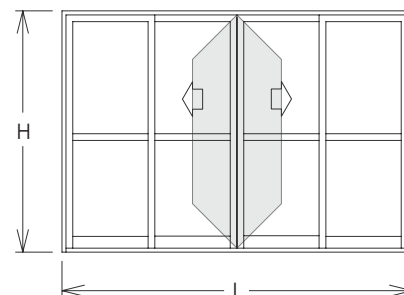
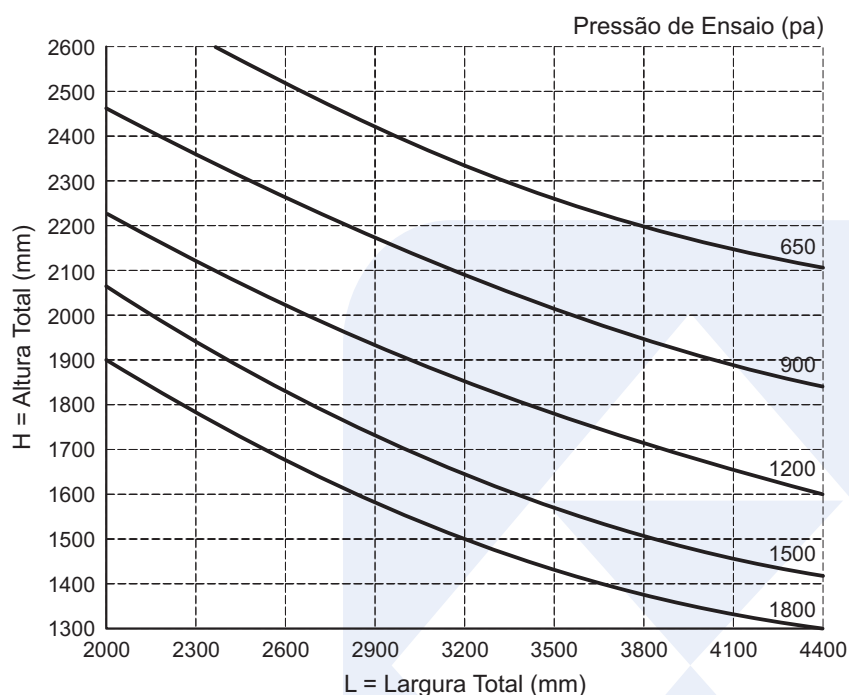
Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

Área = 375 mm²
Jx = 223109 mm⁴
Wx = 5800 mm³

J total = 449895 mm⁴

Porta de Correr 4 folhas Reforços externo e interno

Liga 6060 T5



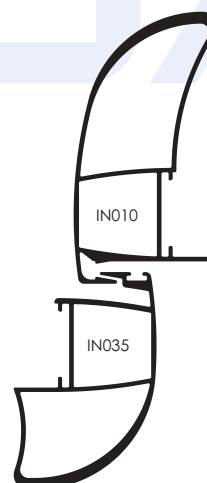
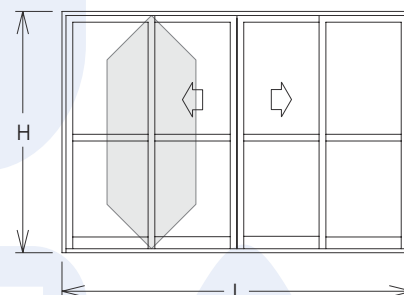
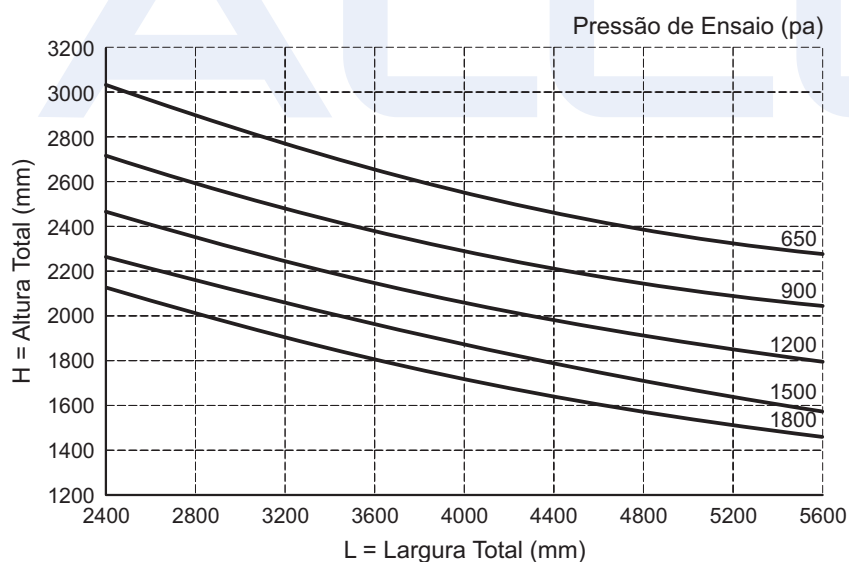
Área = 309 mm²
Jx = 106217 mm⁴
Wx = 2851 mm³

Área = 387 mm²
Jx = 110257 mm⁴
Wx = 2893 mm³

J total = 216474 mm⁴

Porta de Correr 4 folhas Reforços externo e interno

Liga 6060 T5



Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

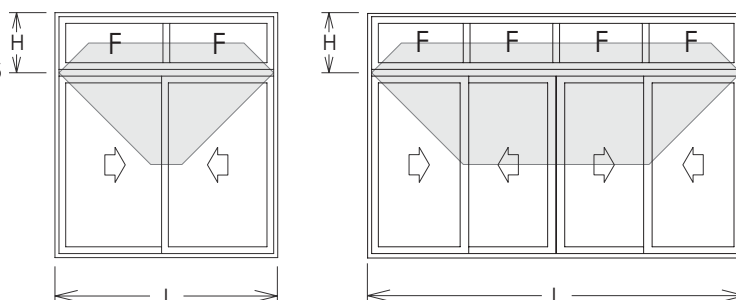
Área = 344 mm²
Jx = 123632 mm⁴
Wx = 3855 mm³

J total = 350418 mm⁴

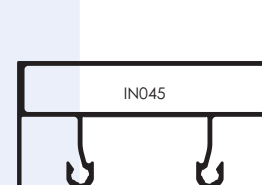
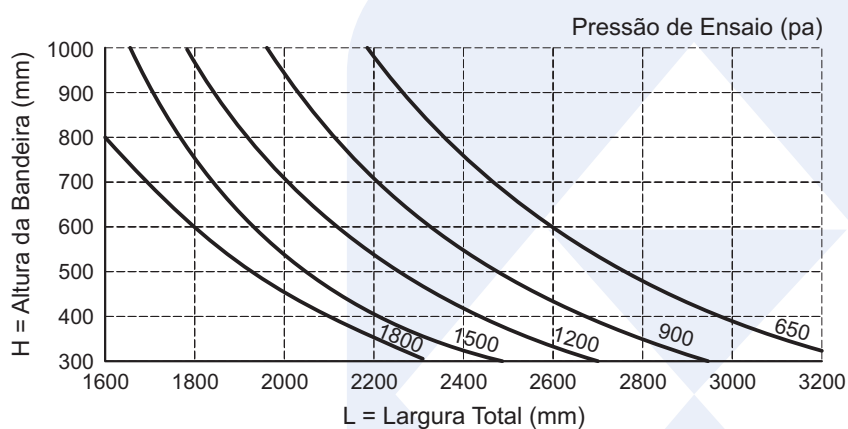
Travessa da bandeira

Porta e Janela de Correr 2 e 4 folhas

Liga 6060 T5



Nota: Após verificação das curvas de pressão de ensaio (abaixo), para larguras superiores a 1600mm, utilizar o perfil IN054, para evitar que o próprio peso da bandeira deforme a travessa e prejudique o funcionamento das folhas de correr.

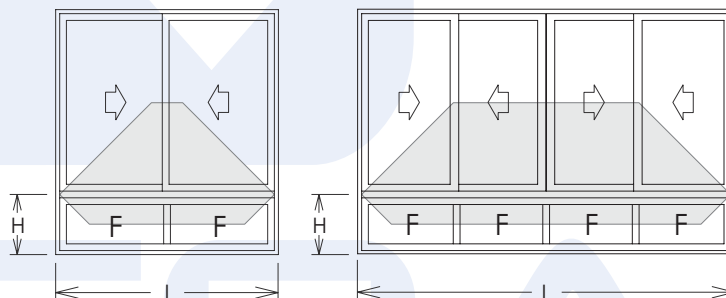


Área = 377 mm²
Jy = 221700 mm⁴
Wy = 6250 mm³

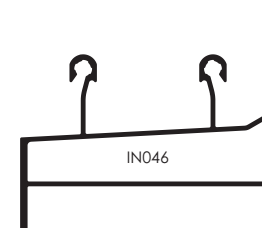
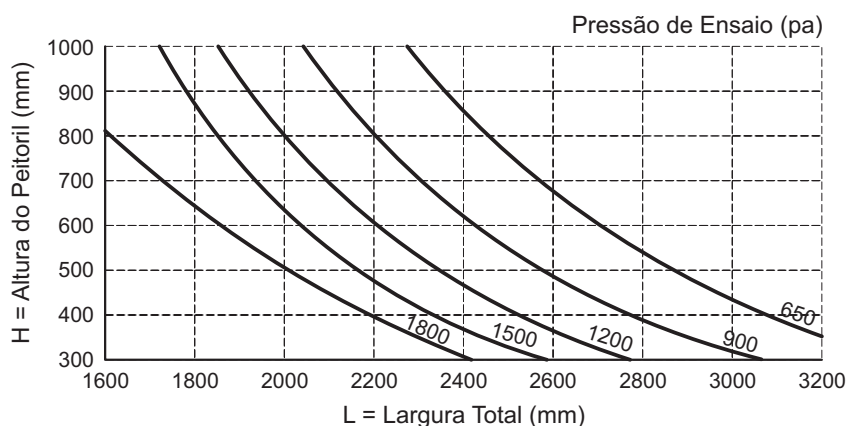
Travessa do peitoril

Porta e Janela de Correr 2 e 4 folhas

Liga 6060 T5



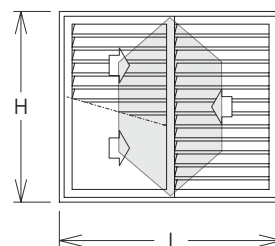
Nota: Após verificação das curvas de pressão de ensaio (abaixo), para larguras superiores a 1600mm, utilizar o perfil IN054, para evitar a deformação da travessa do peitoril e prejudicar o funcionamento das folhas de correr.



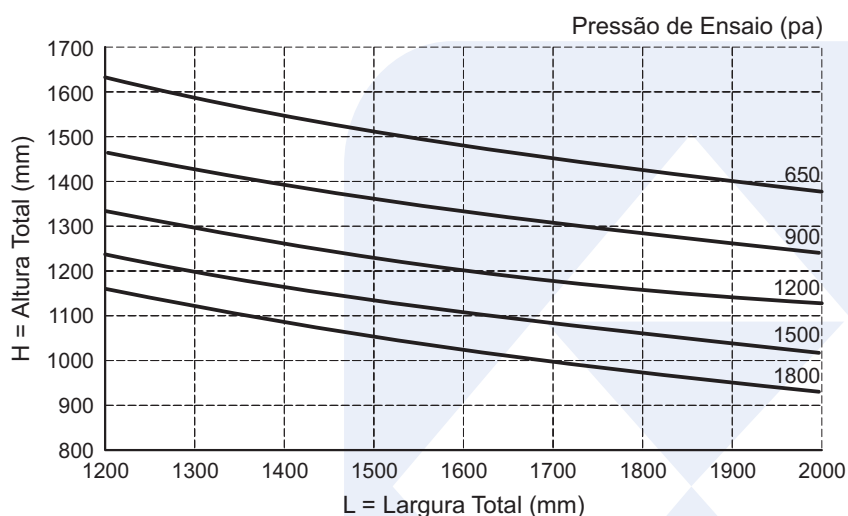
Área = 401 mm²
Jy = 249479 mm⁴
Wy = 6681 mm³

Janela de Correr 3 folhas veneziana Slim

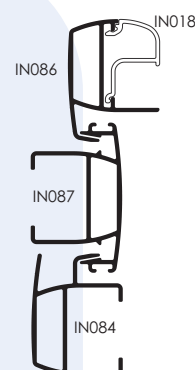
Liga 6060 T5



Verificar limitação por esforço de uso.
Ver página 6



J total = 55644 mm⁴



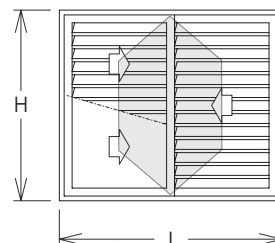
Área = 166 mm²
Jx = 14915 mm⁴
Wx = 788 mm³

Área = 170 mm²
Jx = 25017 mm⁴
Wx = 1238 mm³

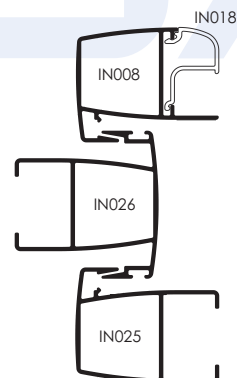
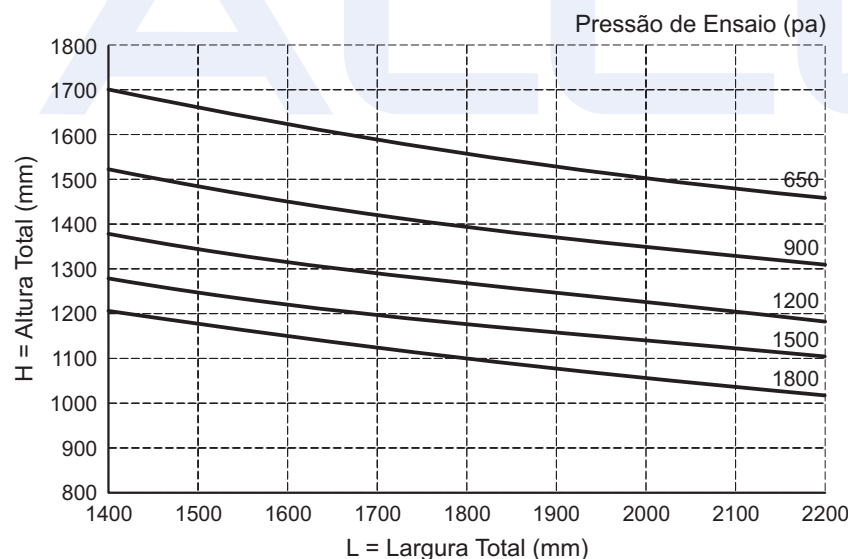
Área = 141 mm²
Jx = 15712 mm⁴
Wx = 909 mm³

Janela de Correr 3 folhas veneziana

Liga 6060 T5



Verificar limitação por esforço de uso.
Ver página 6



Área = 206 mm²
Jx = 20066 mm⁴
Wx = 1193 mm³

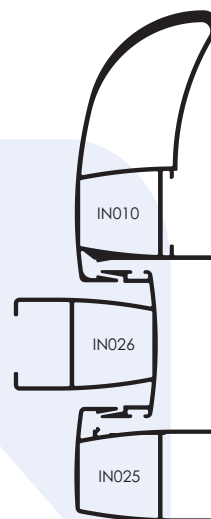
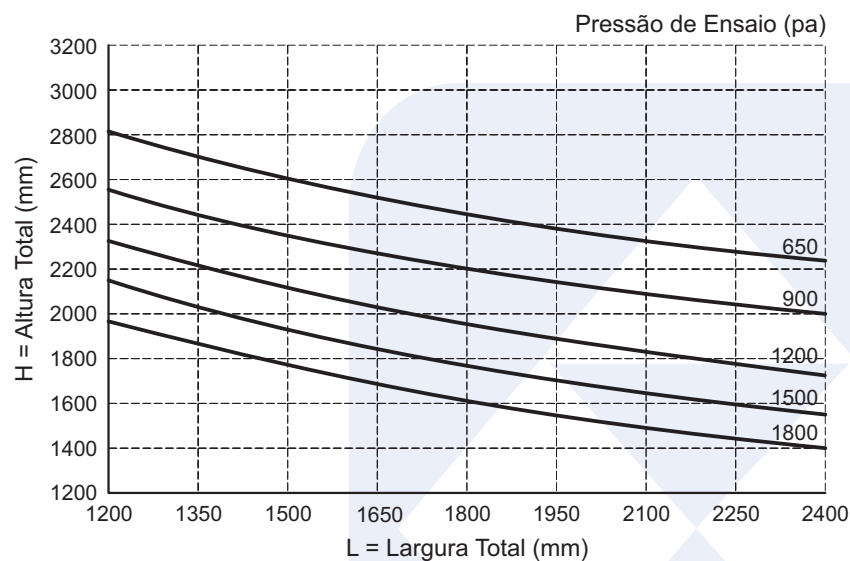
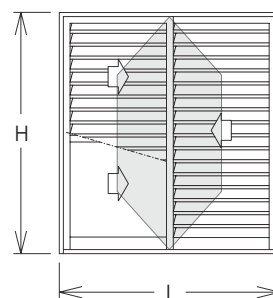
Área = 210 mm²
Jx = 32505 mm⁴
Wx = 1633 mm³

Área = 171 mm²
Jx = 18981 mm⁴
Wx = 1167 mm³

J total = 71549 mm⁴

Porta de Correr 3 folhas veneziana Reforço interno

Liga 6060 T5



Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

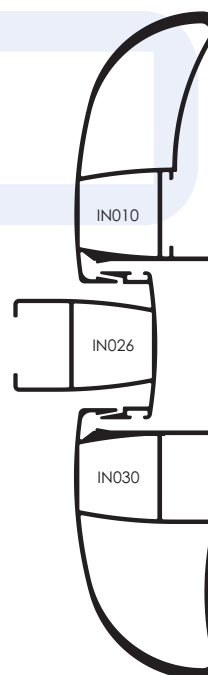
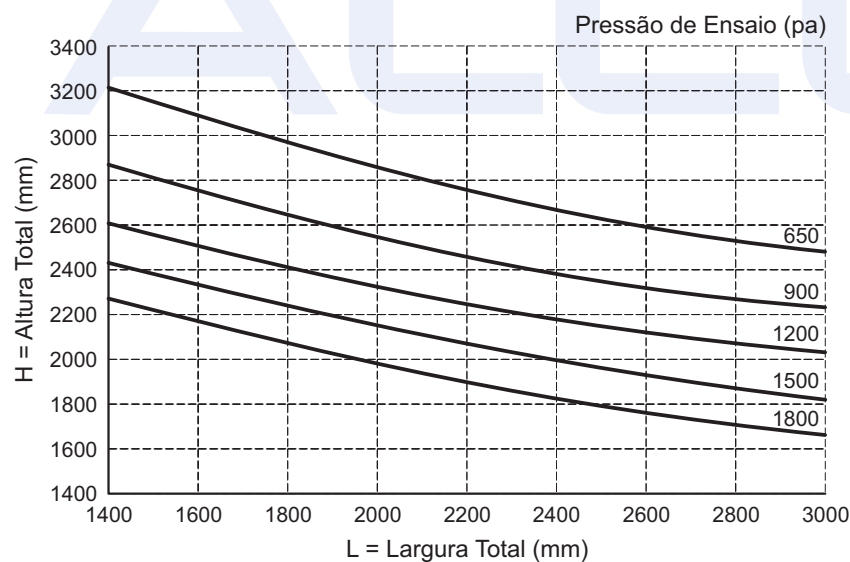
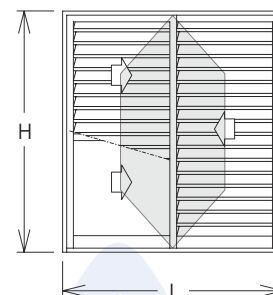
Área = 210 mm²
Jx = 32505 mm⁴
Wx = 1633 mm³

Área = 177 mm²
Jx = 21316 mm⁴
Wx = 1264 mm³

J total = 280604 mm⁴

Porta de Correr 3 folhas veneziana Reforços interno e externo

Liga 6060 T5



Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

Área = 210 mm²
Jx = 32505 mm⁴
Wx = 1633 mm³

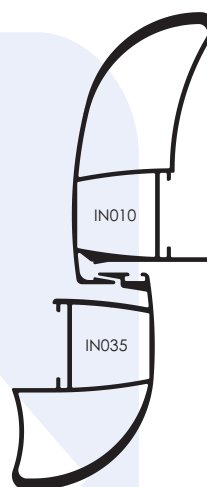
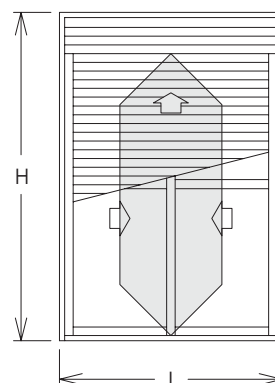
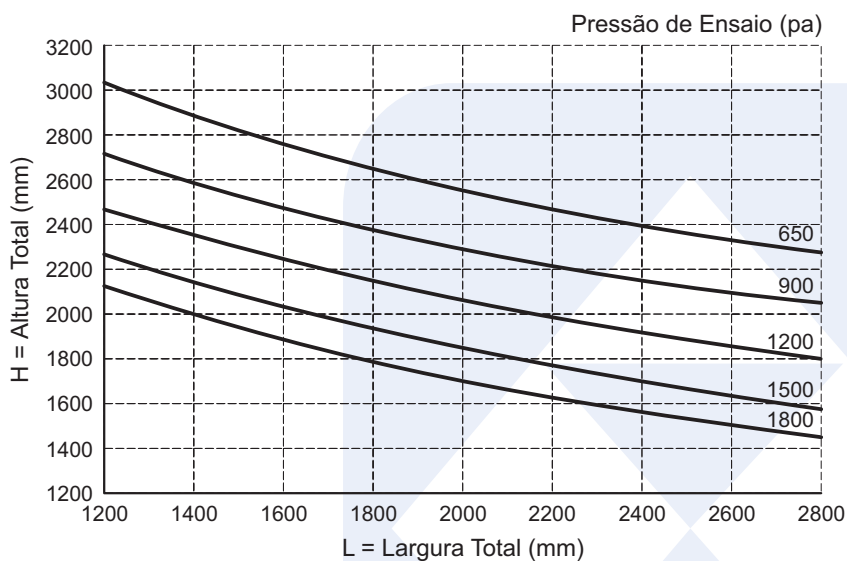
Área = 386 mm²
Jx = 225383 mm⁴
Wx = 6158 mm³

J total = 484671 mm⁴

Porta de Correr 2 folhas, com persiana

Reforços externo e interno

Liga 6060 T5



Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

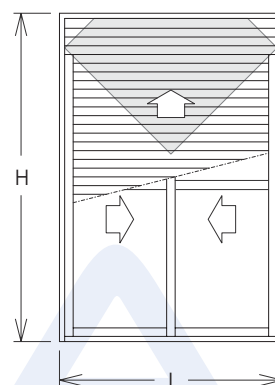
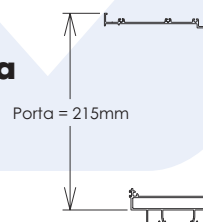
Área = 344 mm²
Jx = 123632 mm⁴
Wx = 3855 mm³

J total = 350418 mm⁴

Travessa da Caixa

Porta e Janela de Correr 2 folhas, com persiana

Liga 6060 T5

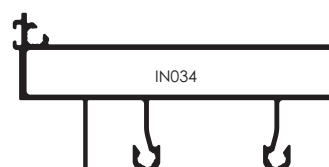
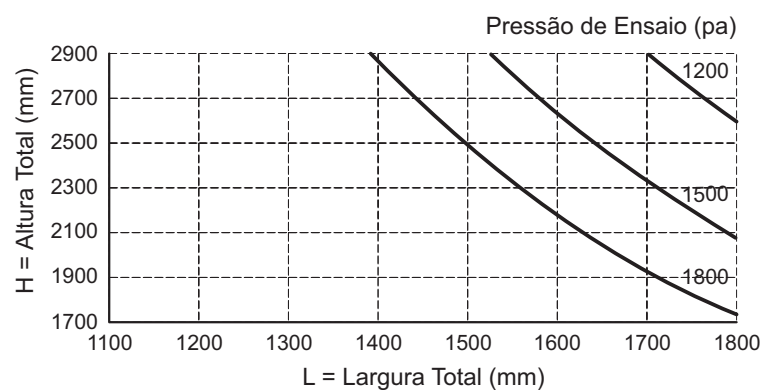


Notas:

Largura máxima de 1800mm, limitada pela persiana.

Altura mínima de 1700mm.

Altura máxima da porta, limitada pelo diâmetro do rolo que a caixa comporta.
Ver limites nas montagens.

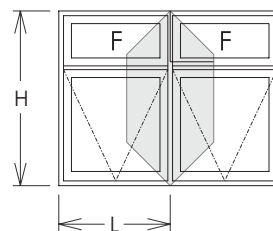


Área = 488 mm²
Jx = 413302 mm⁴
Wx = 8985 mm³

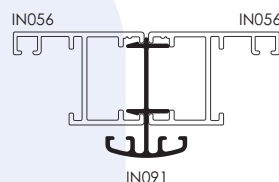
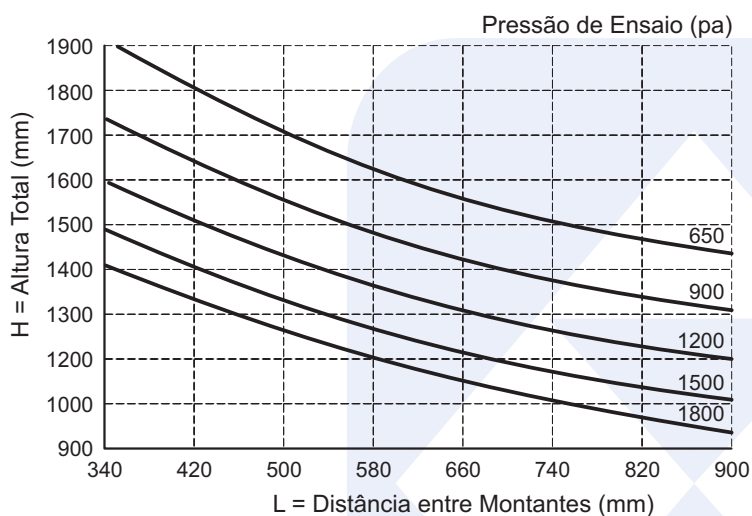
Junção de módulos - Montagem A

Janela Maxim ar

Liga 6060 T5



Dimensão máxima da folha = 900mm x 900mm,
limitada pela resistência dos perfis de folha

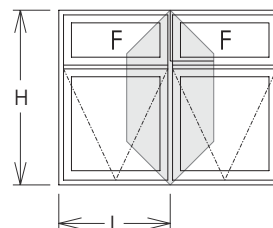


Área = 369 mm²
Jx = 50118 mm⁴
Wx = 2489 mm³

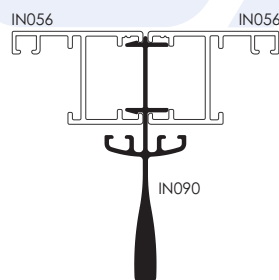
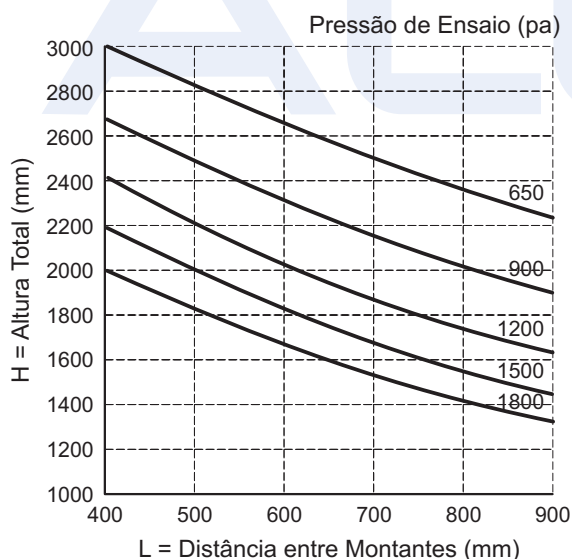
Junção de módulos, com reforço externo

Janela Maxim ar

Liga 6060 T5



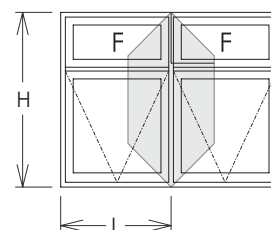
Dimensão máxima da folha = 900mm x 900mm,
limitada pela resistência dos perfis de folha



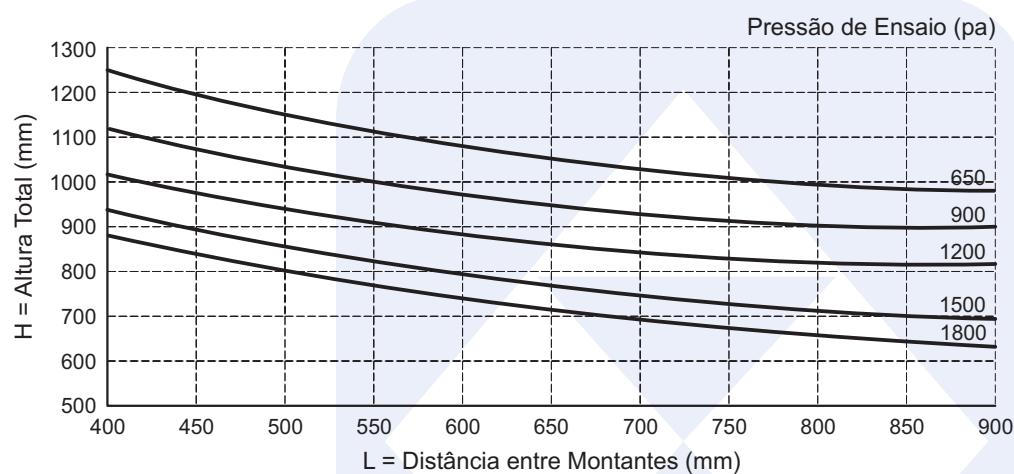
Área = 494 mm²
Jx = 224720 mm⁴
Wx = 5146 mm³

Montante central Janela Maximar

Liga 6060 T5



Dimensão máxima da folha = 900mm x 900mm,
limitada pela resistência dos perfis de folha



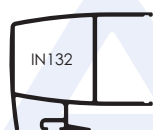
Área = 224 mm²
Jx = 16135 mm⁴
Wx = 1118 mm³

Folha de Correr com Vidro duplo 18mm

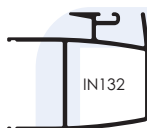
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

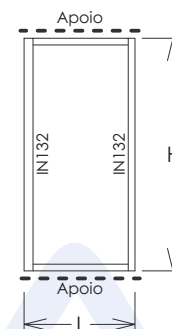
Flecha admissível = H/225



Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³



Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³



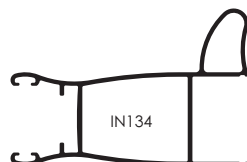
Pressão de ensaio (Pa)	Medida de folha (L x H)				
	1000 x 1500	1000 x 1700	1250 x 1500	1250 x 1700	1400 x 1400
2000					
1500					
1200					
1000					
750					
550					

Folha de Correr com Vidro duplo 18mm

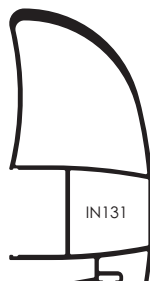
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

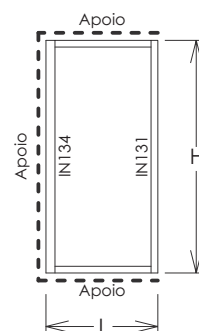
Flecha admissível = H/225



Área = 264 mm²
Jx = 40236 mm⁴
Wx = 1554 mm³



Área = 380 mm²
Jx = 229185 mm⁴
Wx = 6166 mm³



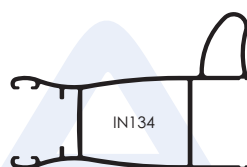
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

Folha de Correr com Vidro duplo 18mm

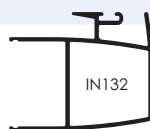
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

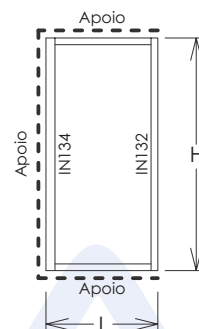
Flecha admissível = H/225



Área = 264 mm²
Jx = 40236 mm⁴
Wx = 1554 mm³



Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³



Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

Folha de Correr com Vidro duplo 18mm

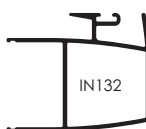
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

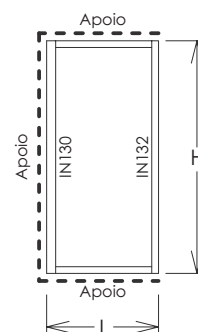
Flecha admissível = $H/225$



Área = 251 mm²
Jx = 20279 mm⁴
Wx = 1622 mm³



Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³



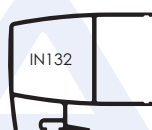
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

Folha de Correr com Vidro duplo 18mm

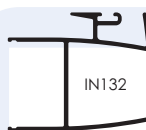
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

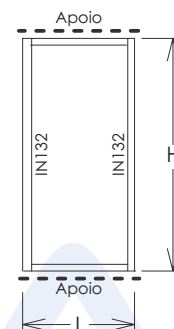
Flecha admissível = $H/225$



Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³



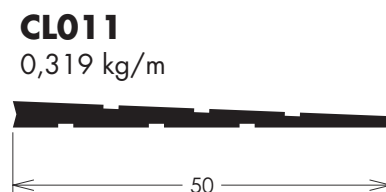
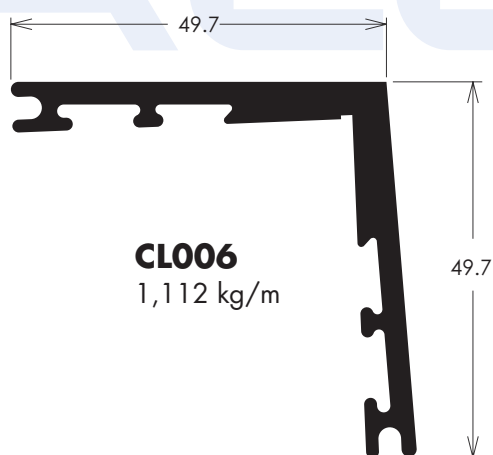
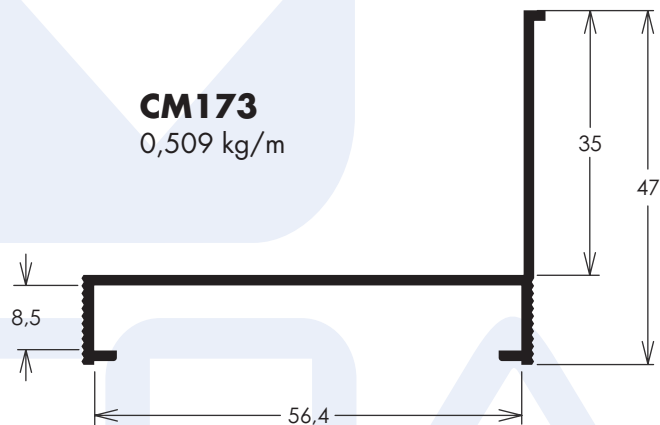
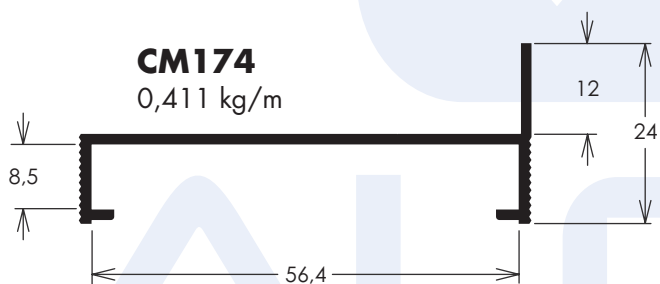
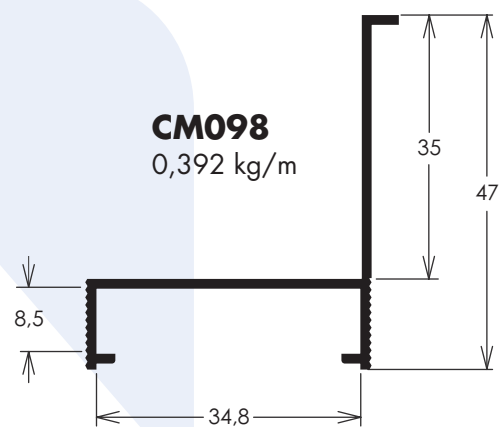
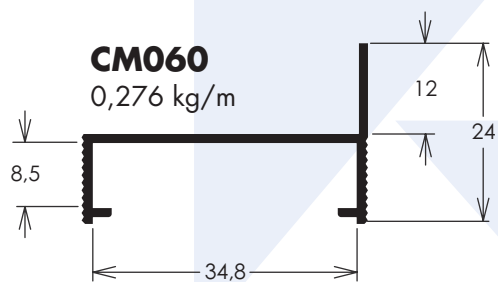
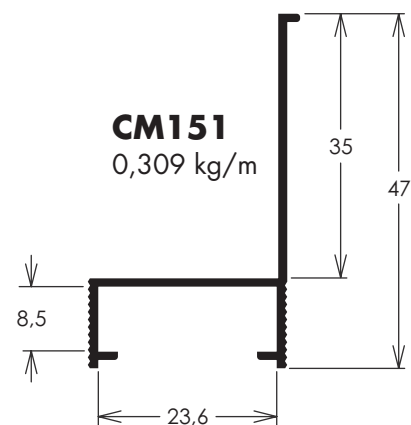
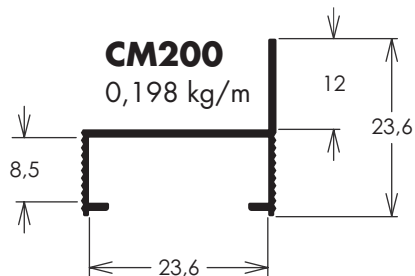
Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³

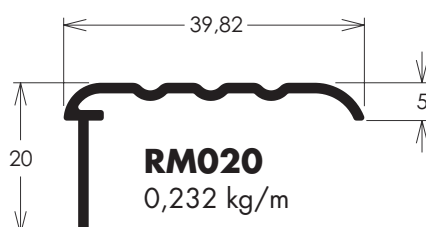
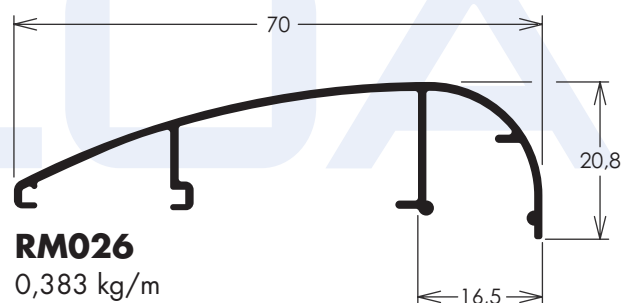
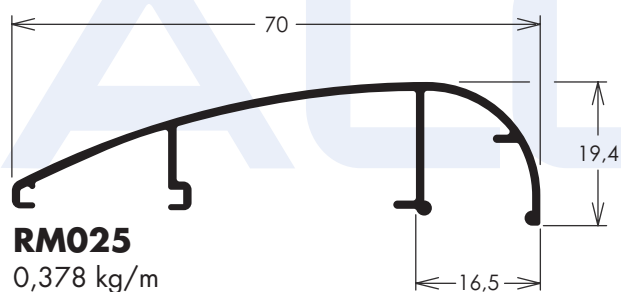
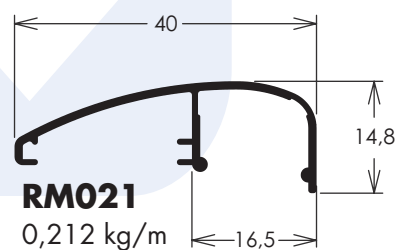
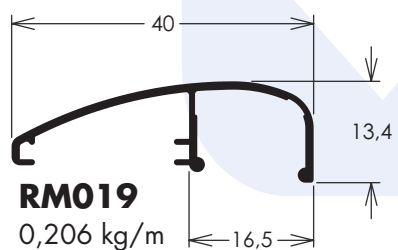
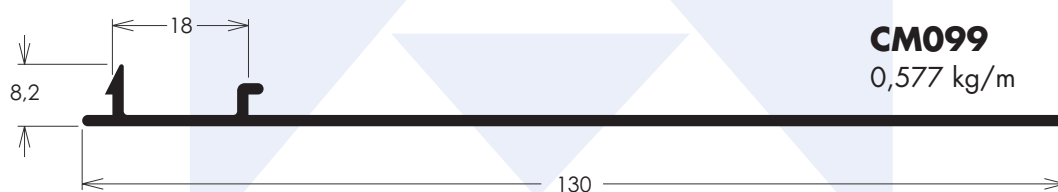
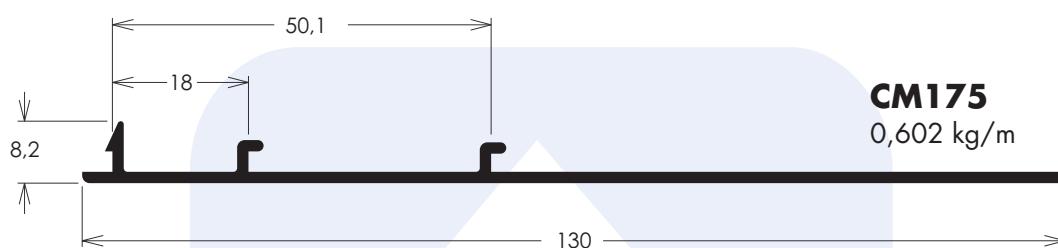
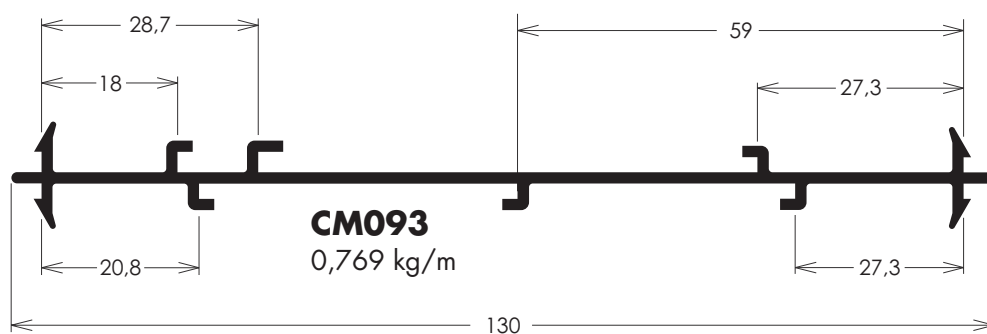


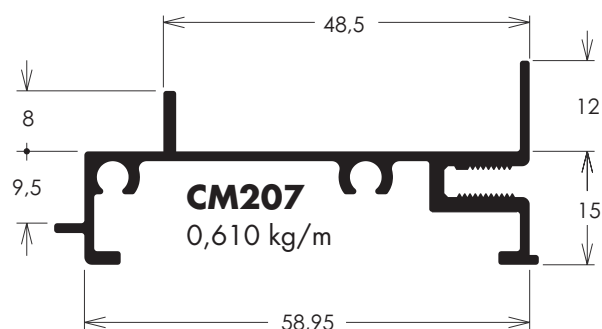
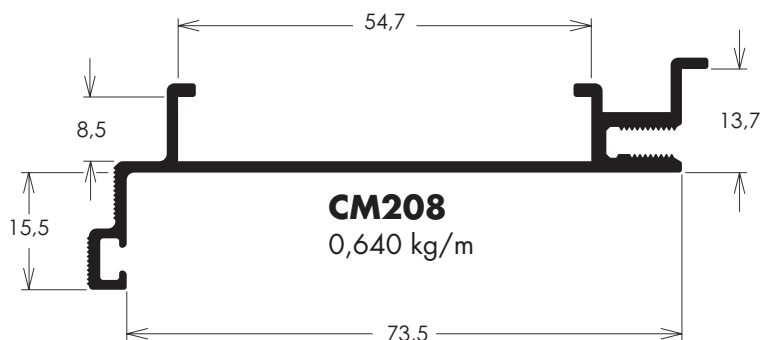
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

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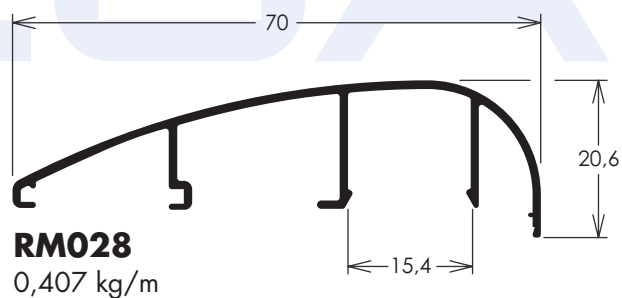
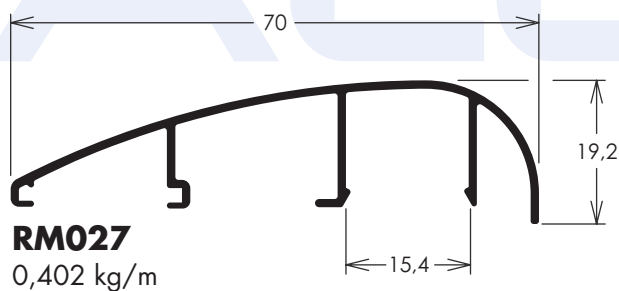
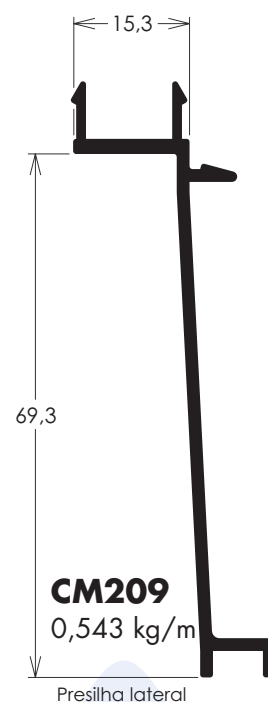
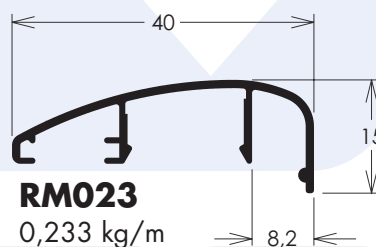
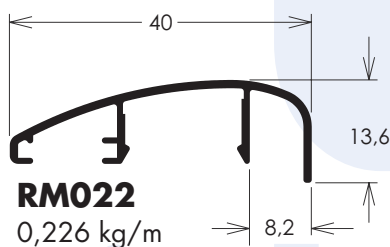
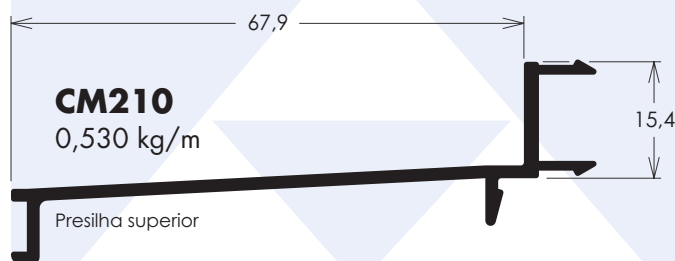
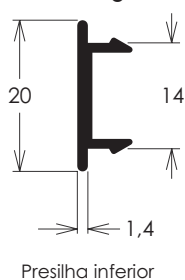
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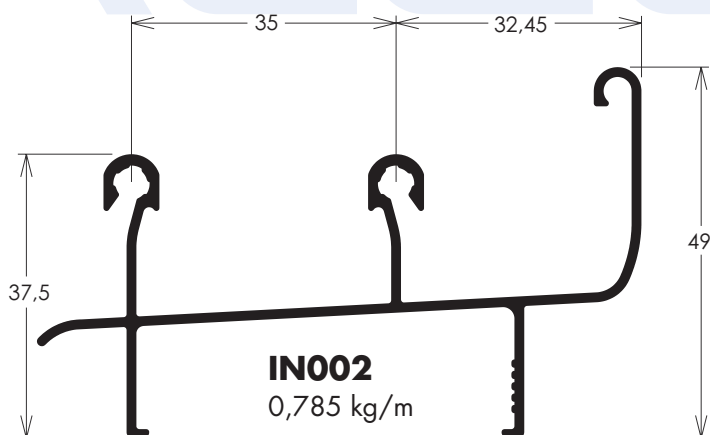
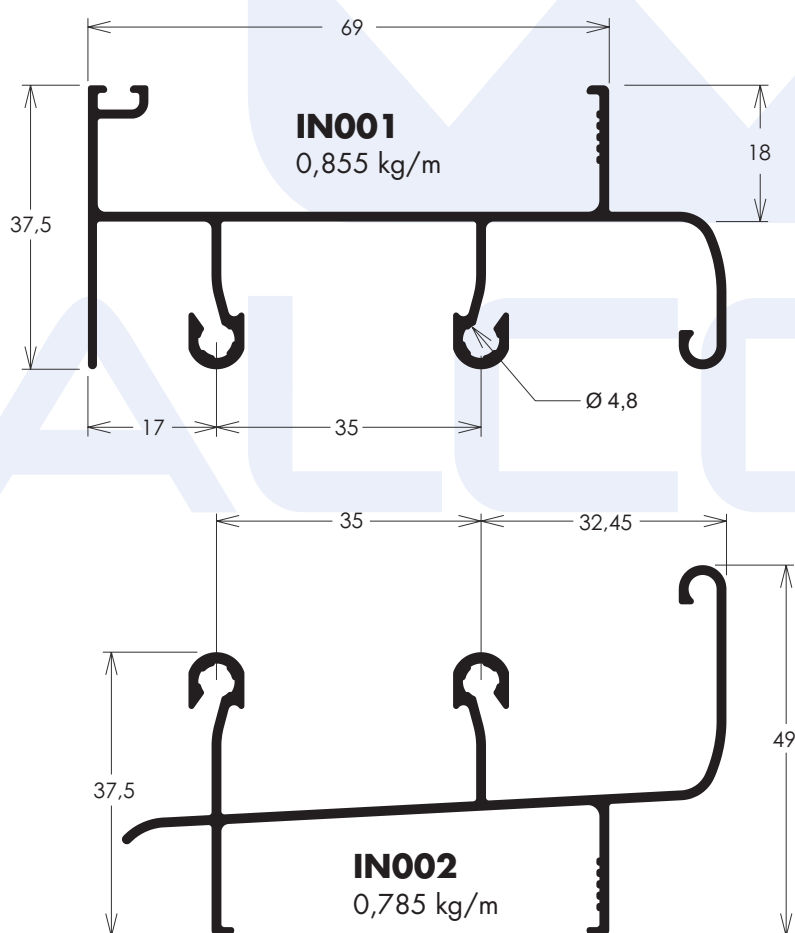
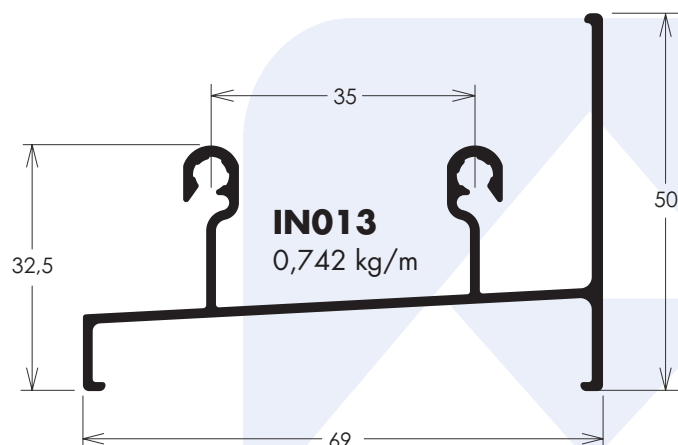
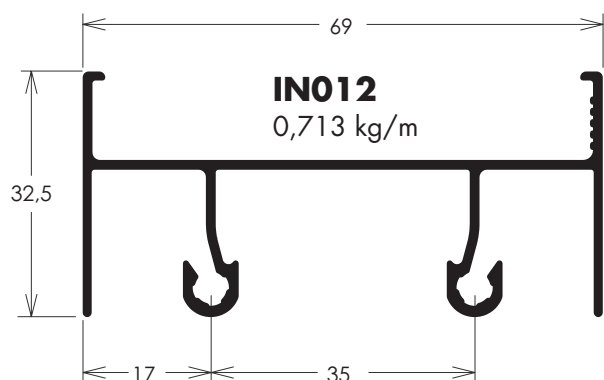




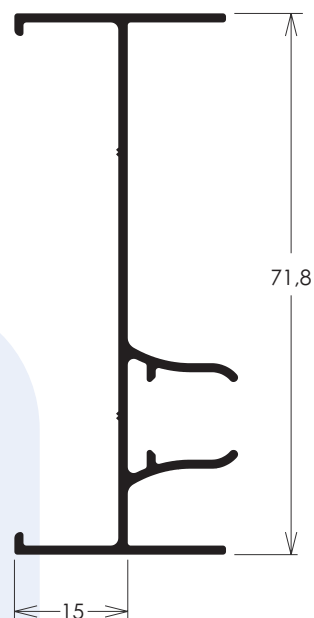


CM211
0,137 kg/m

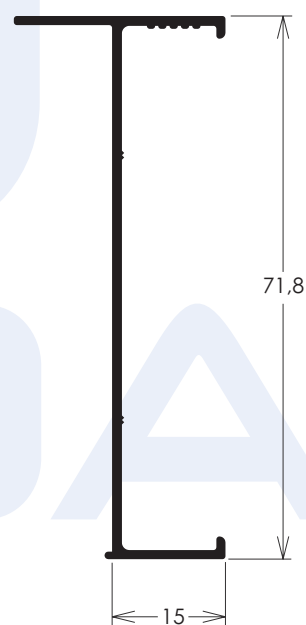




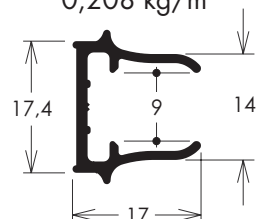
IN003
0,546 kg/m

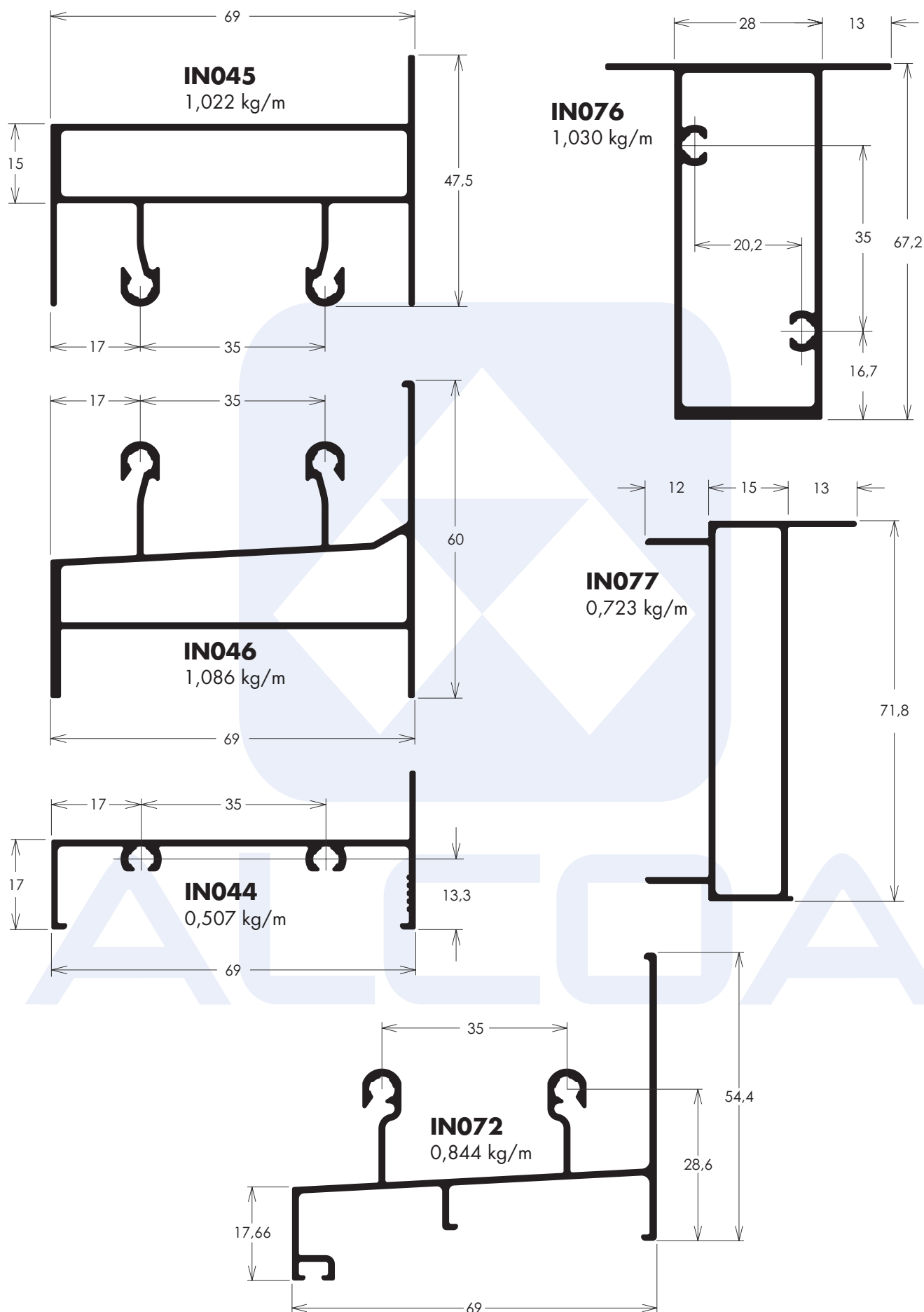


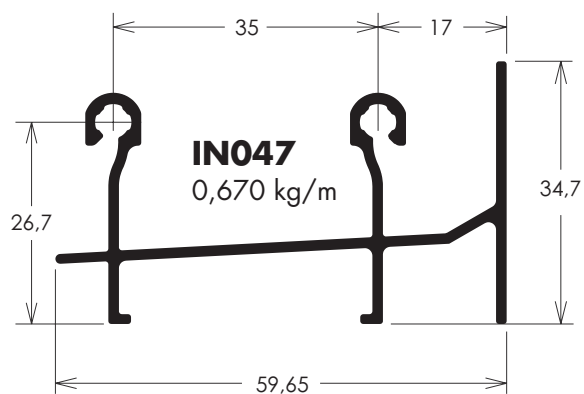
IN043
0,408 kg/m



IN037
0,208 kg/m

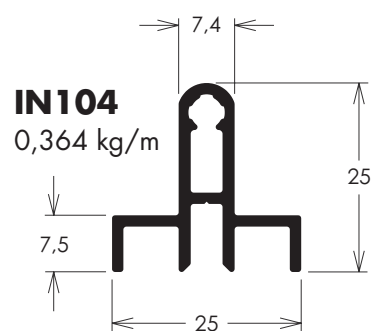




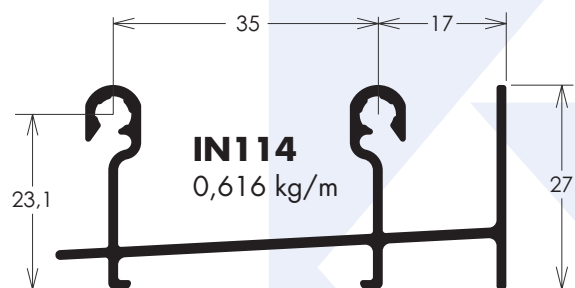


Empregar este trilho somente para regiões I e II.

OBS.: Ver Instrução de Montagem

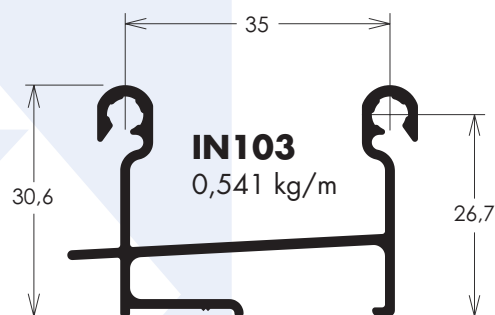


OBS.: Ver Instrução de Montagem

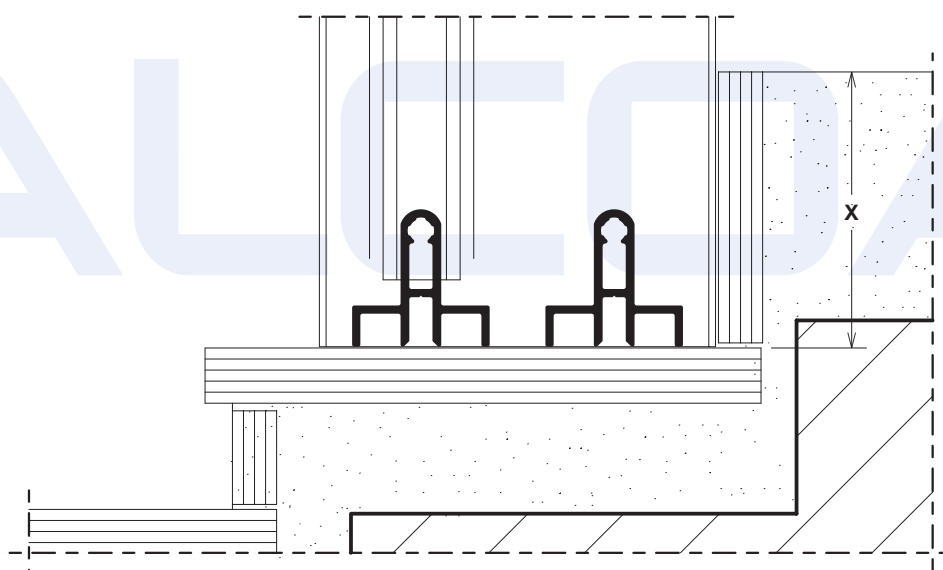


Empregar este trilho somente para regiões I e II.

OBS.: Ver Instrução de Montagem

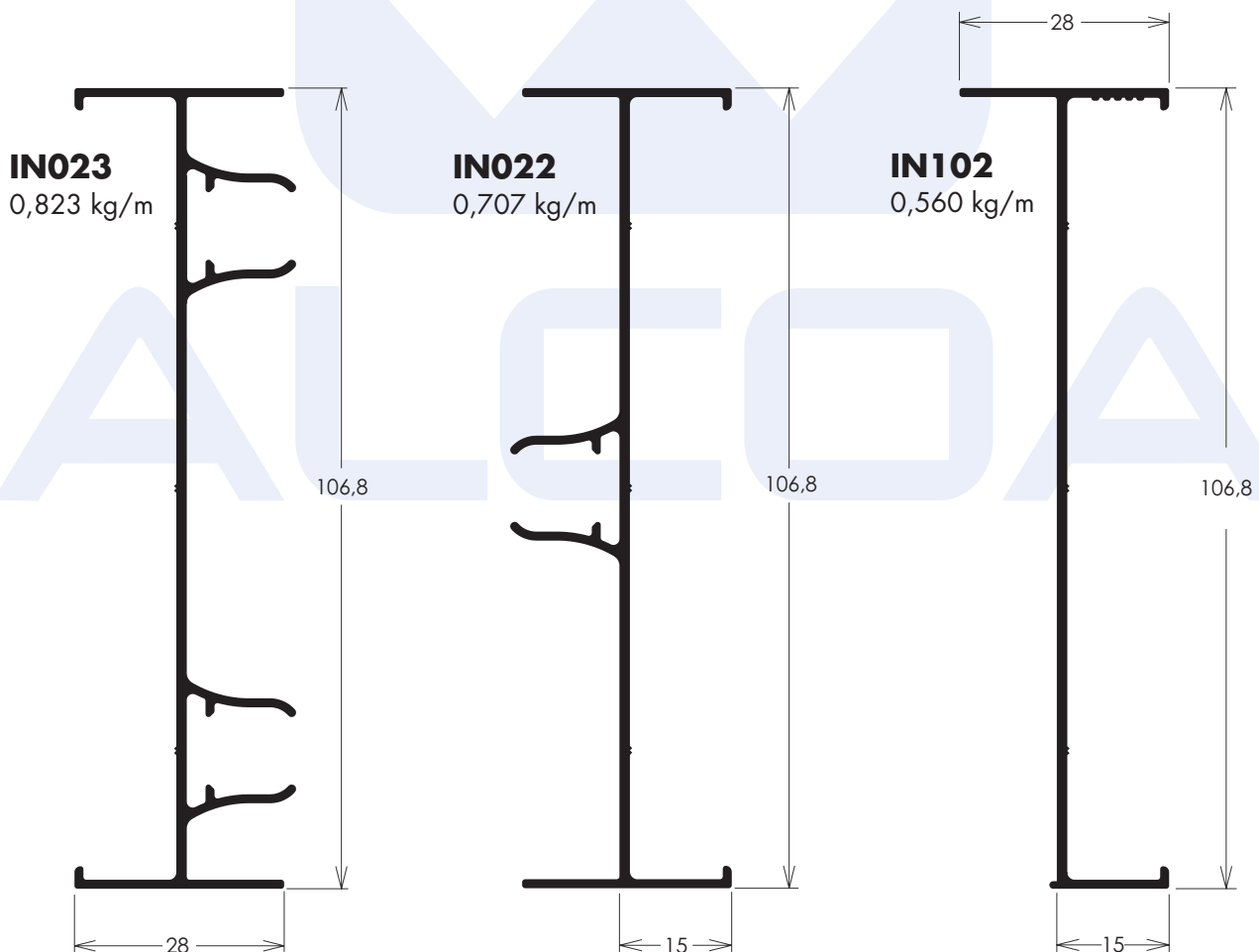
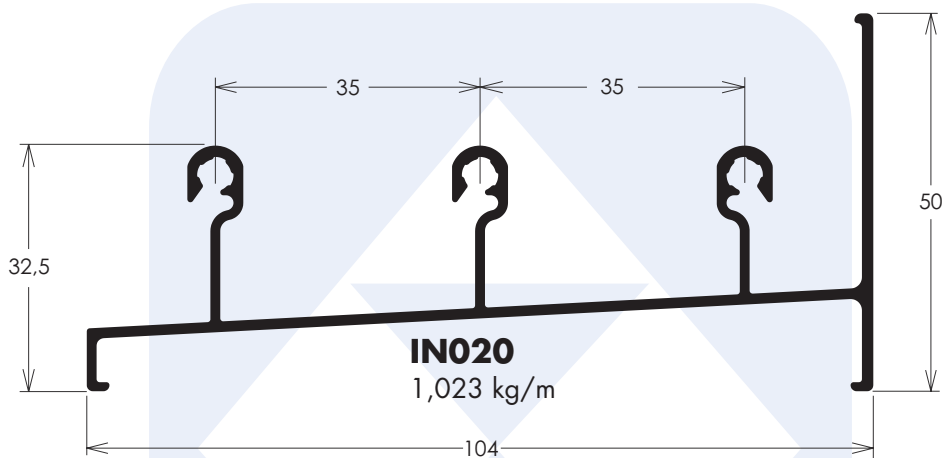
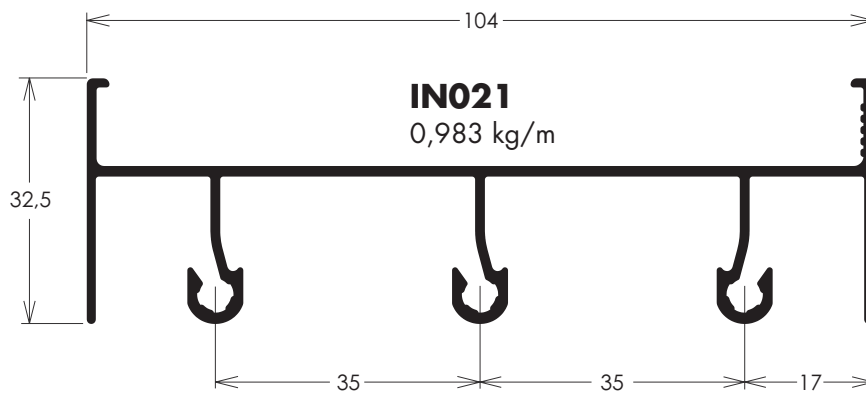


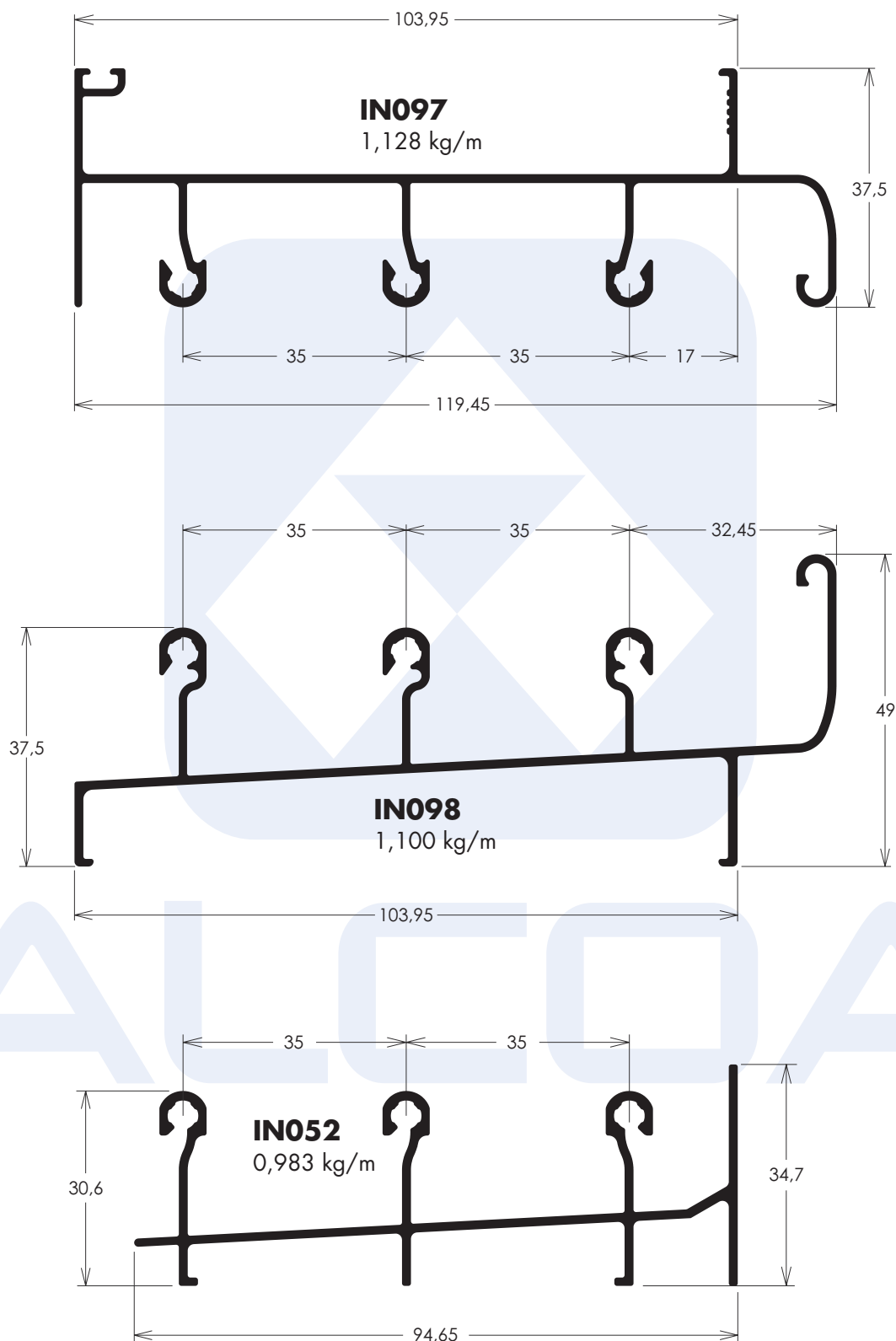
Situação de vedação melhorada ou reforçada



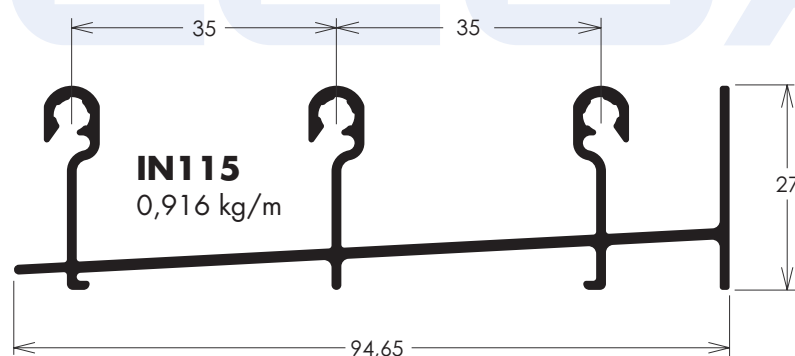
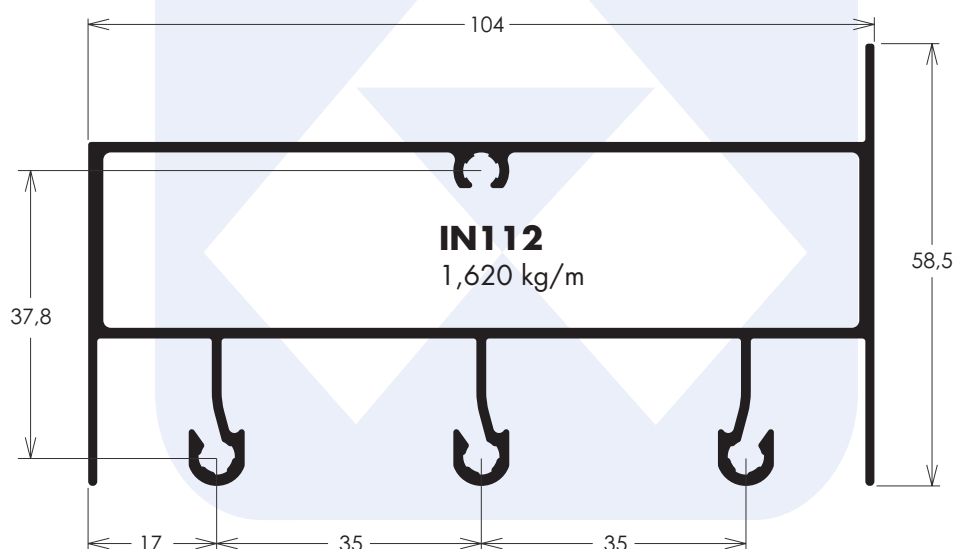
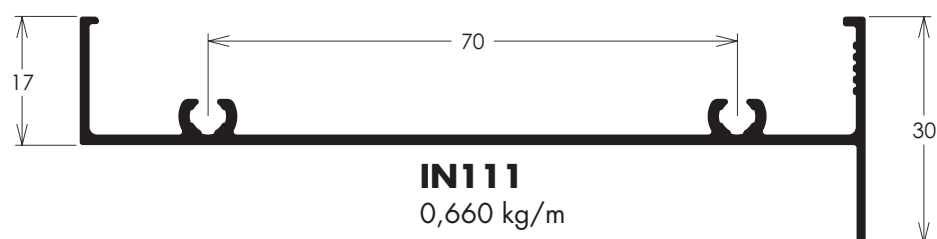
$$X = 15 + (0,15 \times Pe)$$

onde Pe = Pressão de ensaio



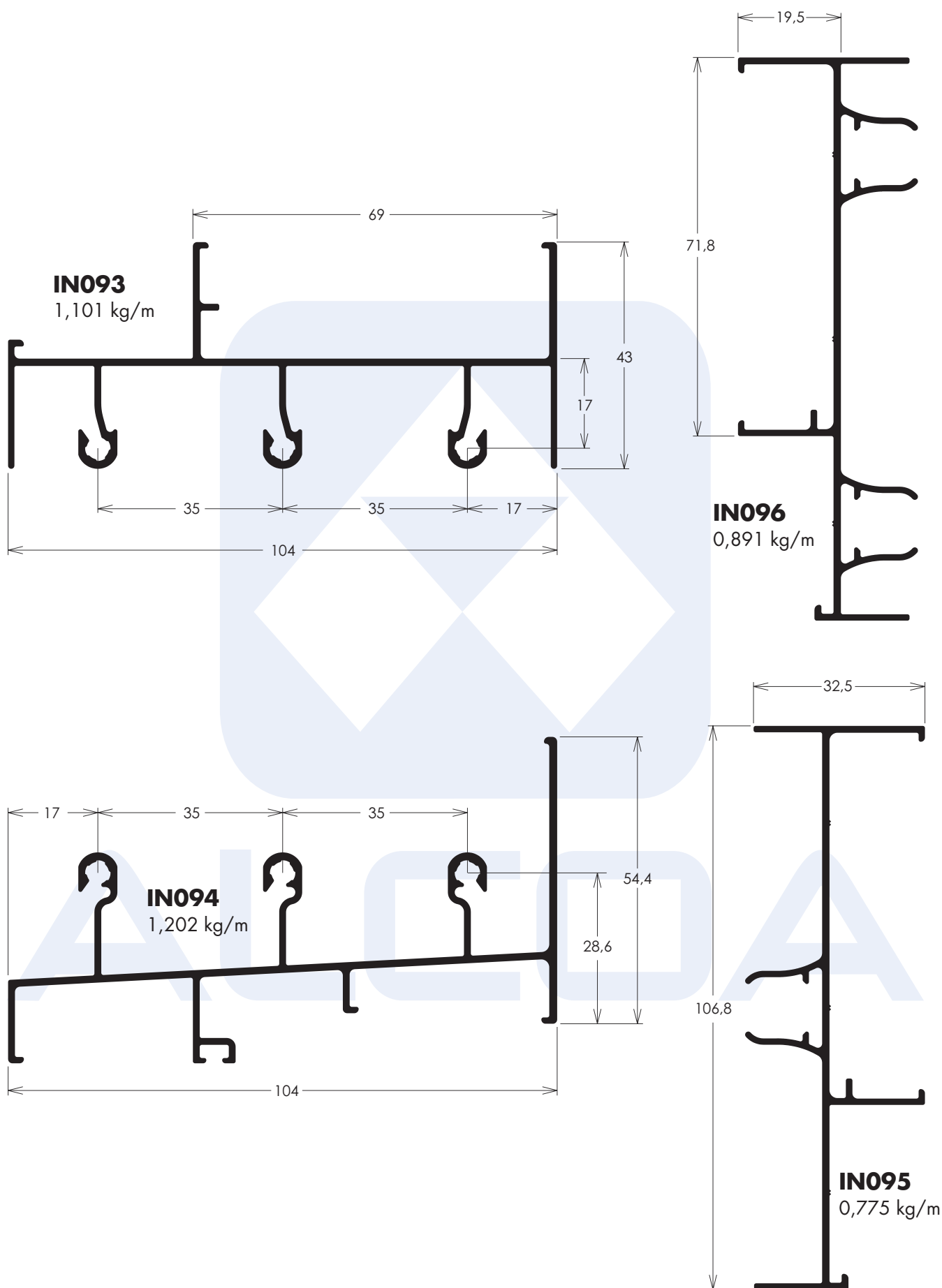


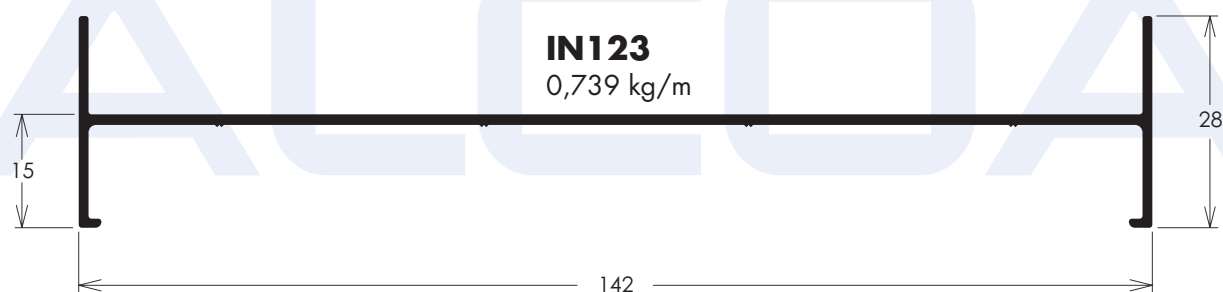
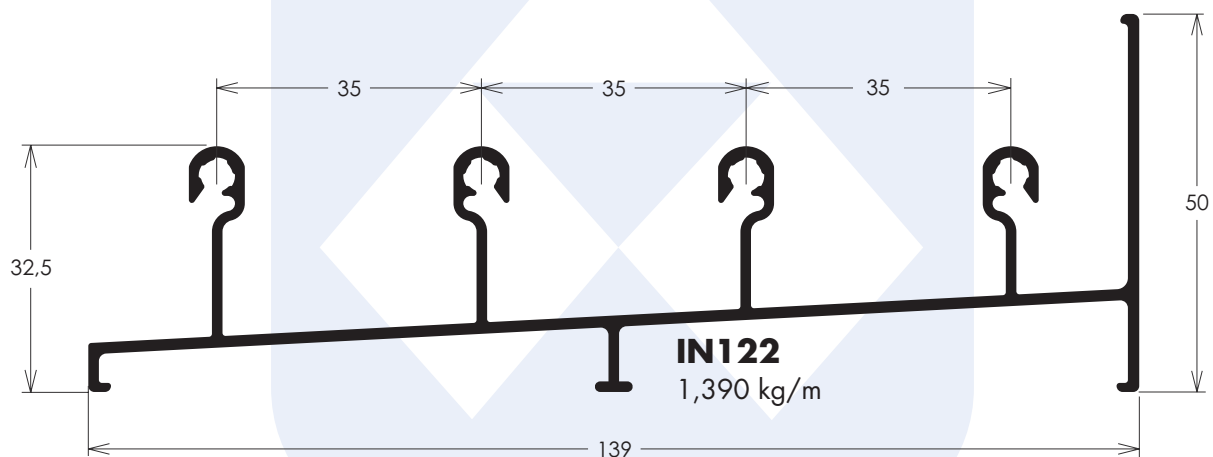
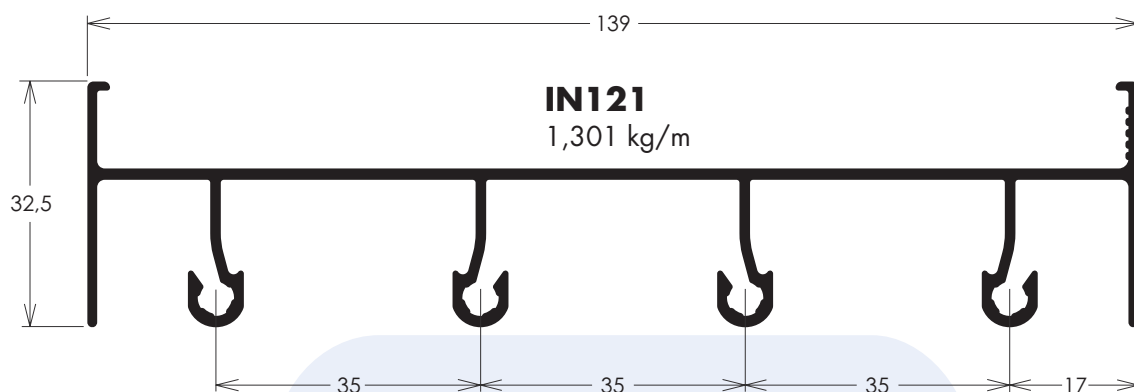
OBS.: Ver Instrução de Montagem

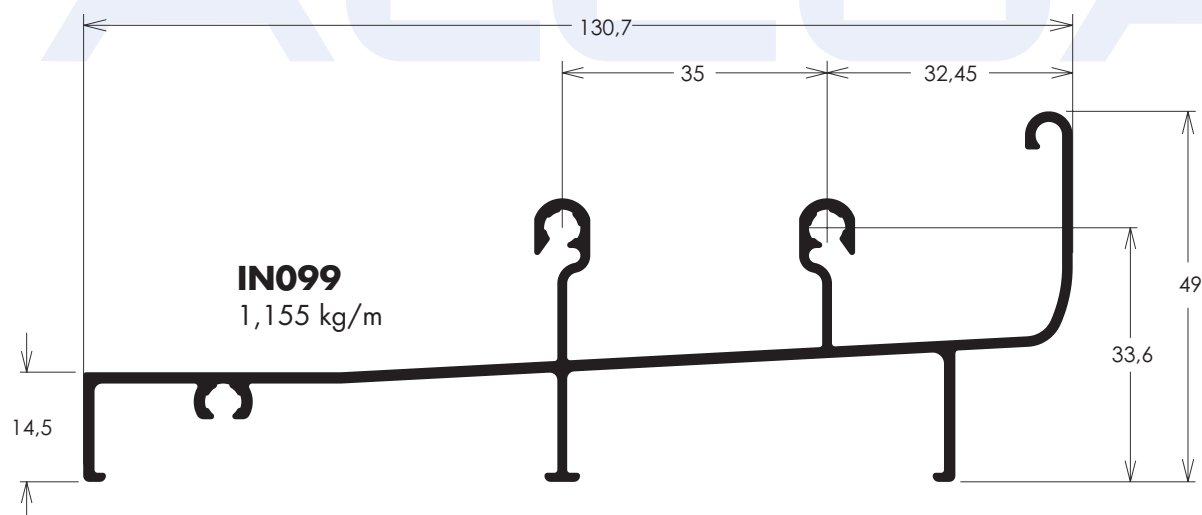
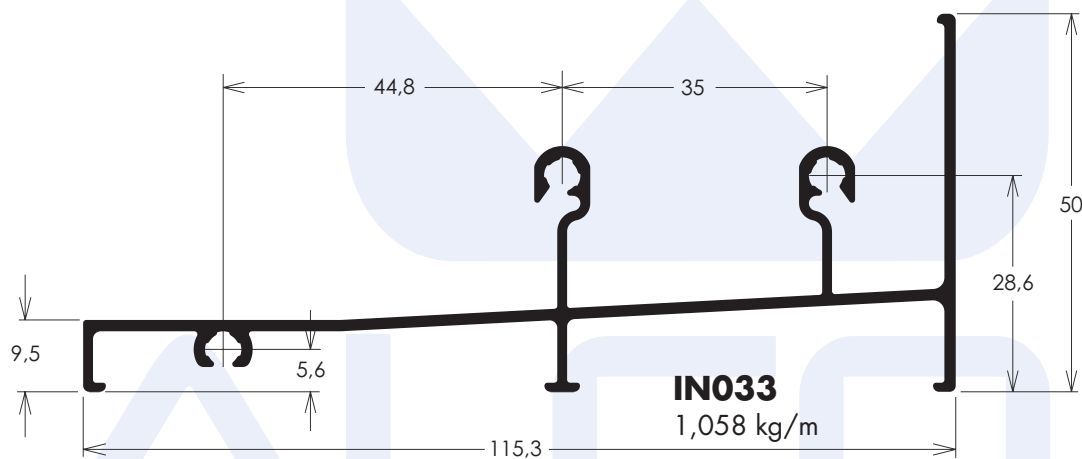
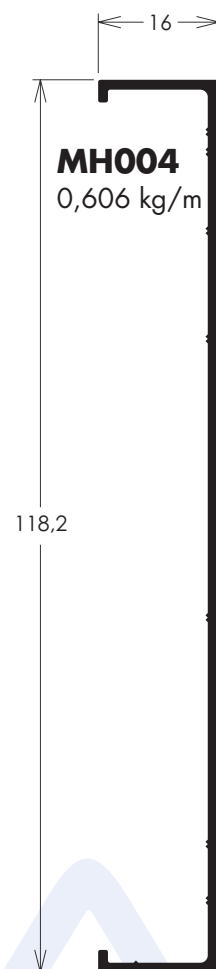
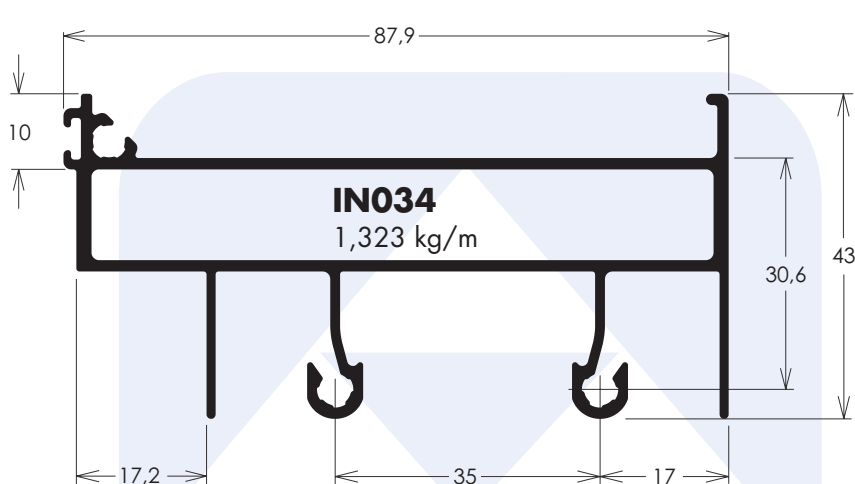
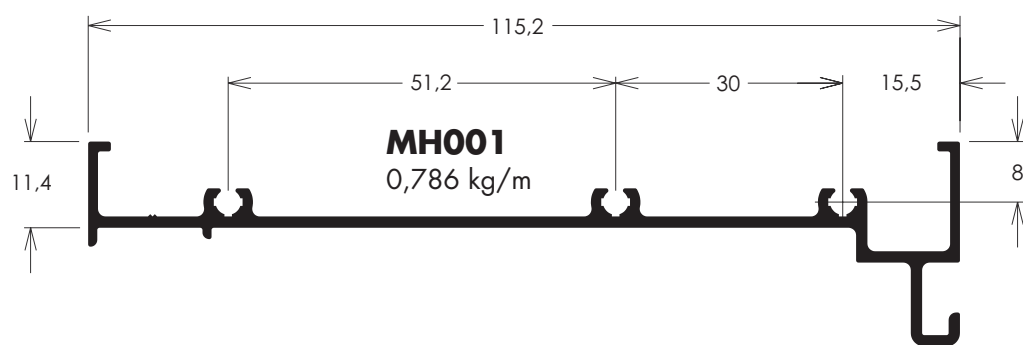


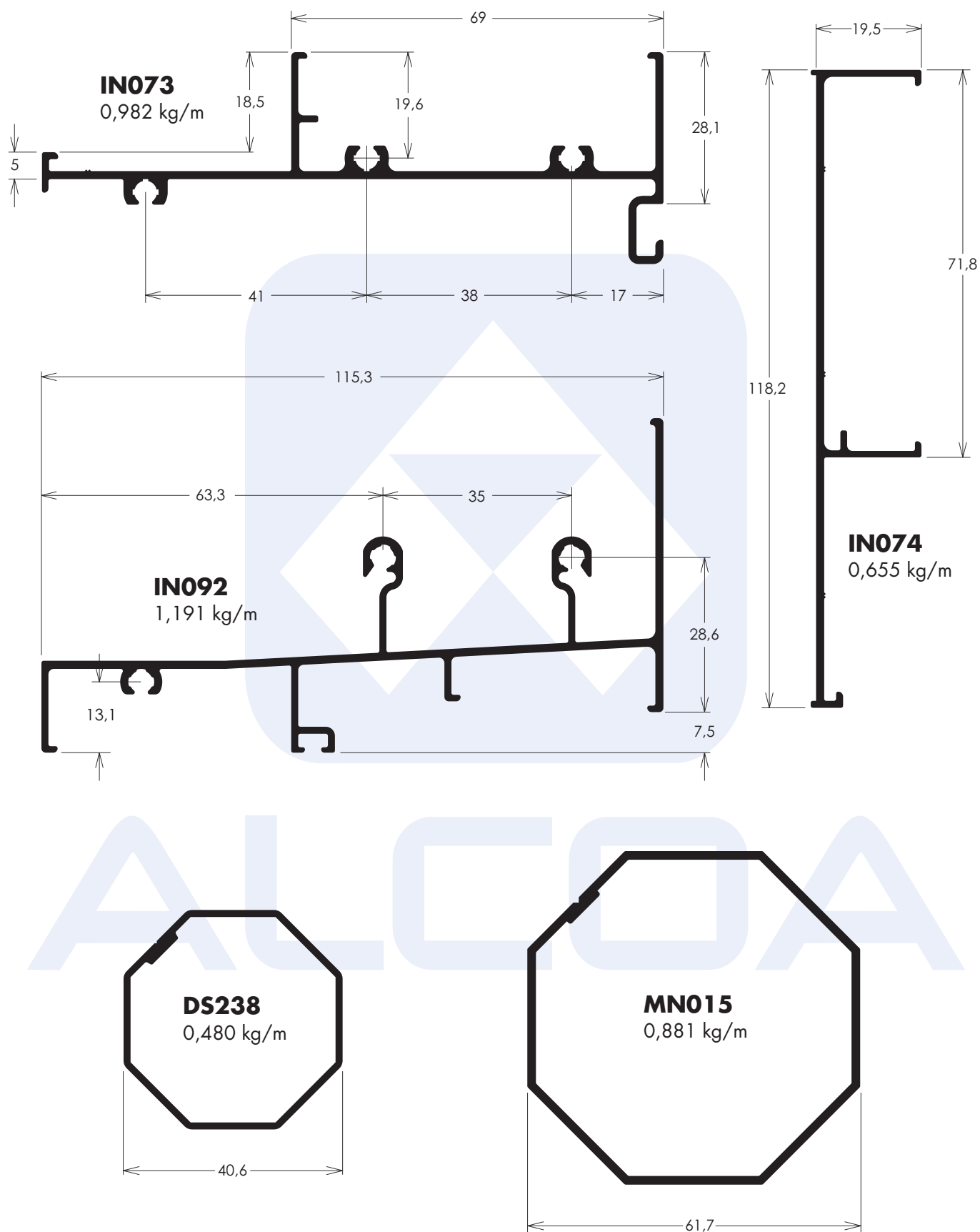
Empregar este trilho somente para regiões I e II.

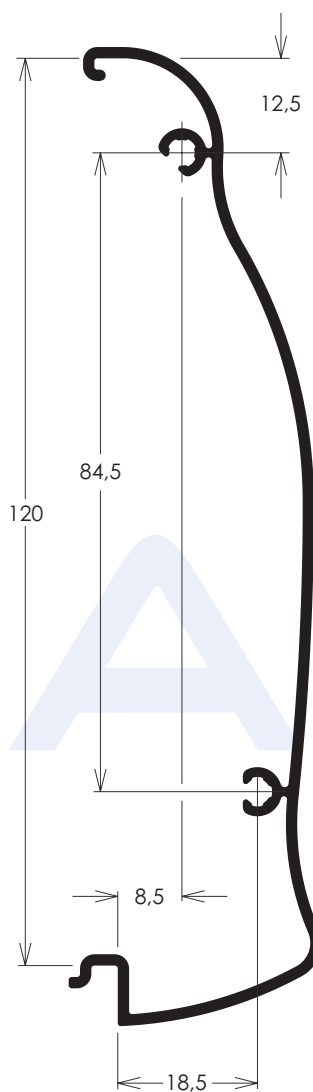
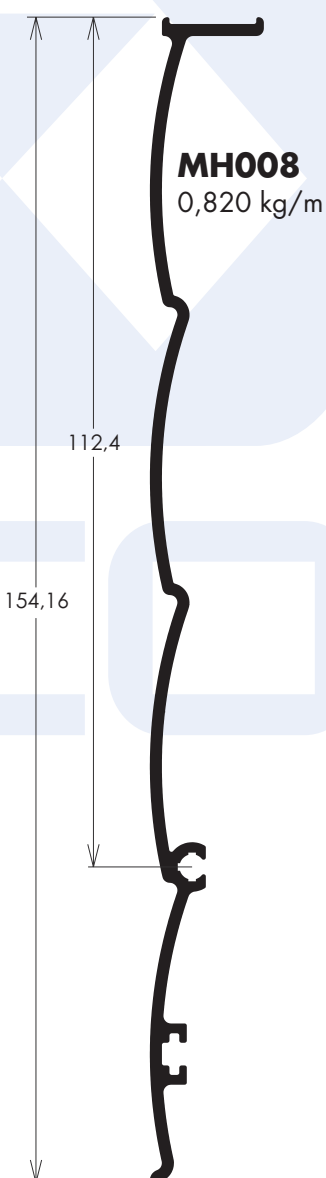
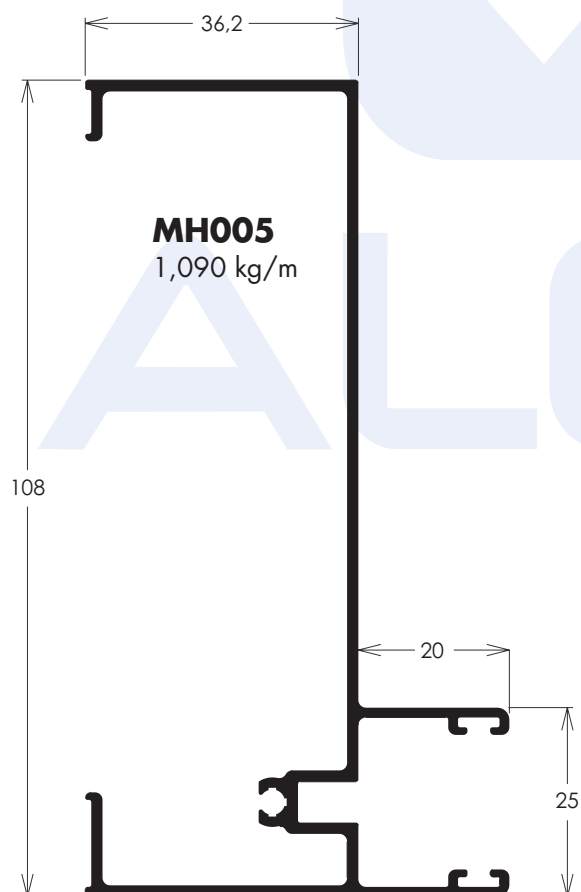
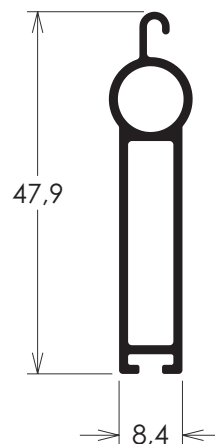
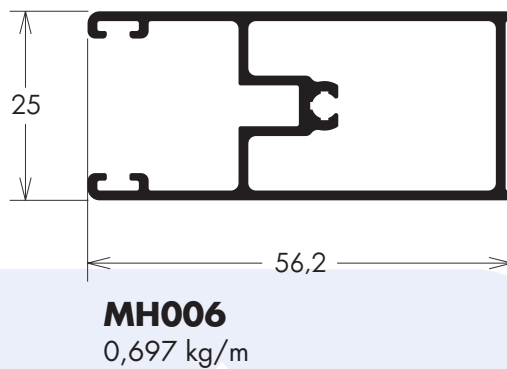
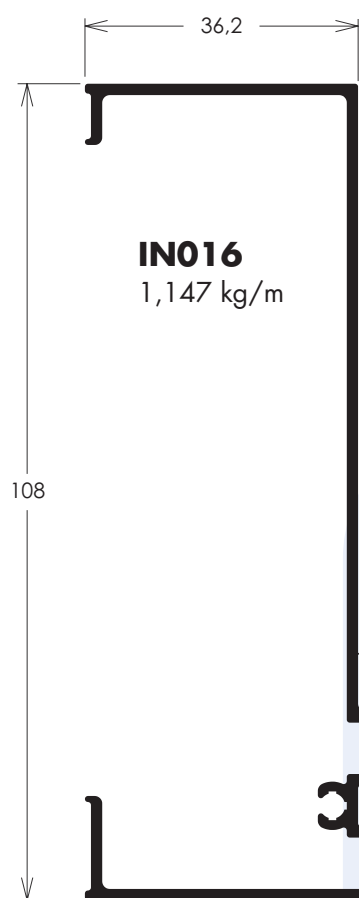
OBS.: Ver Instrução de Montagem

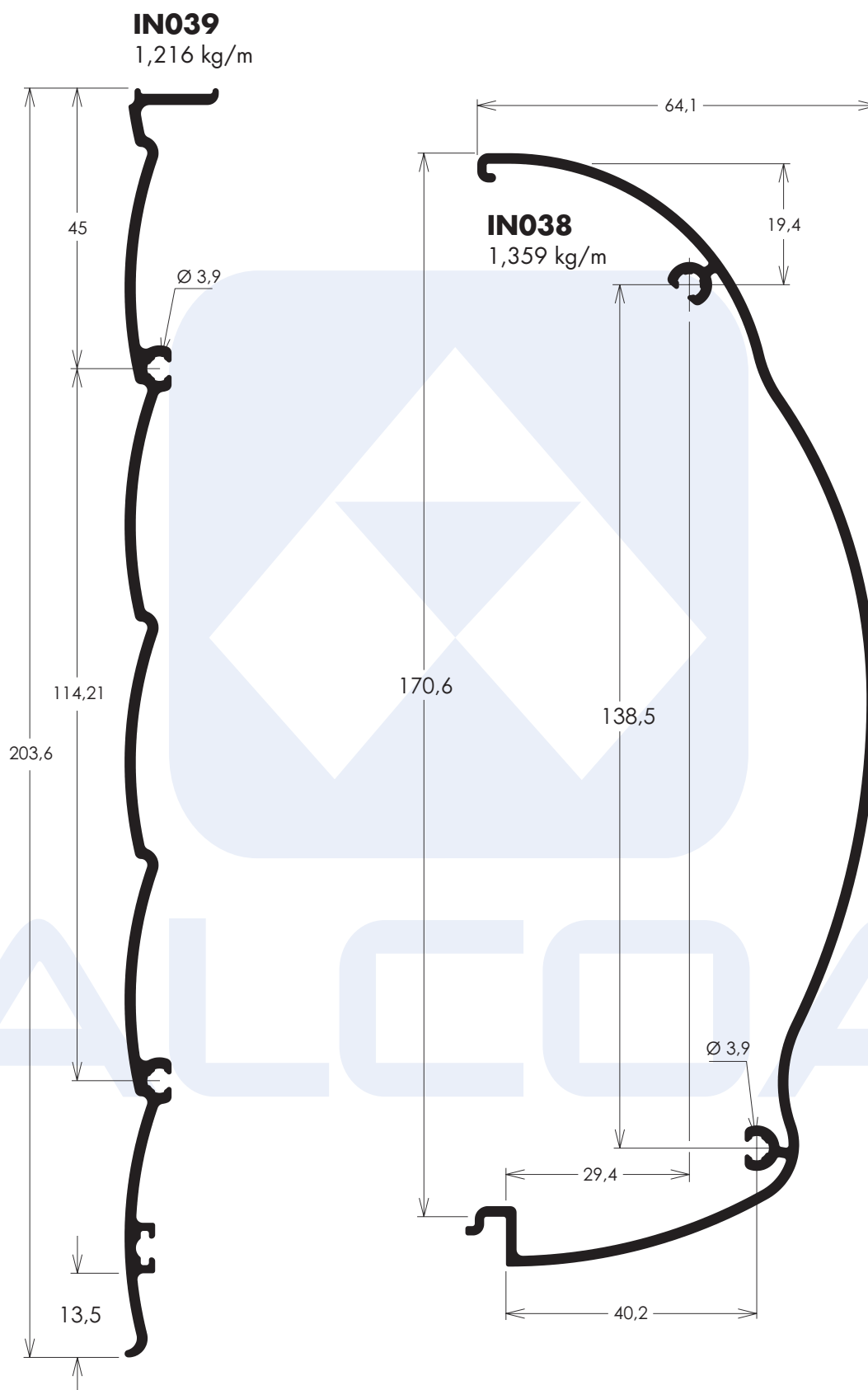


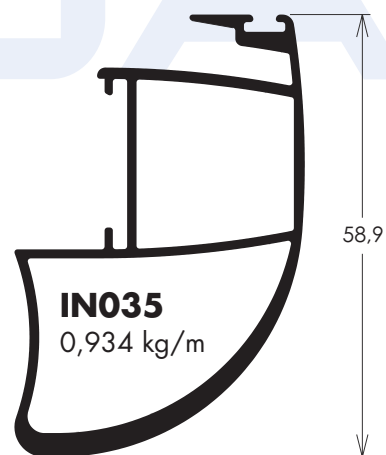
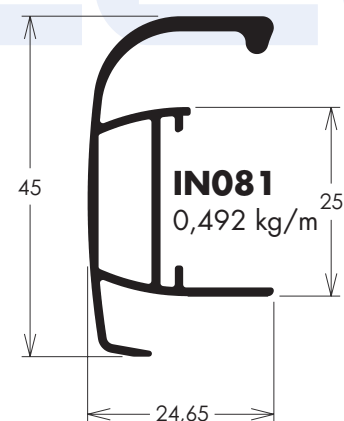
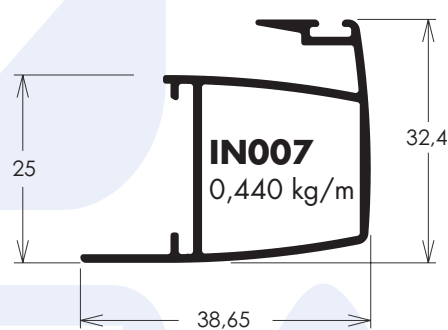
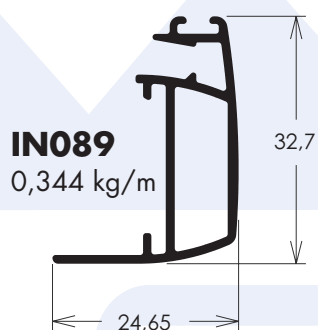
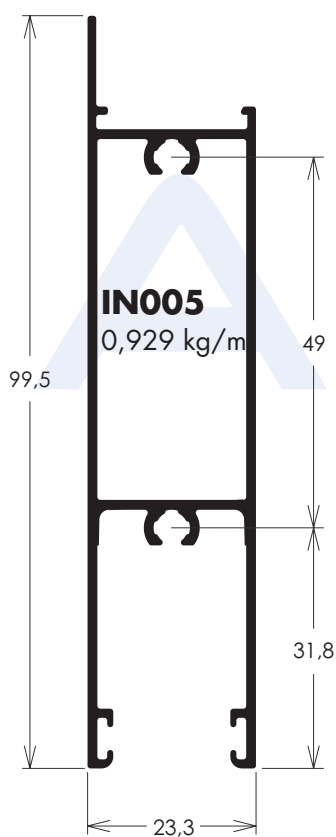
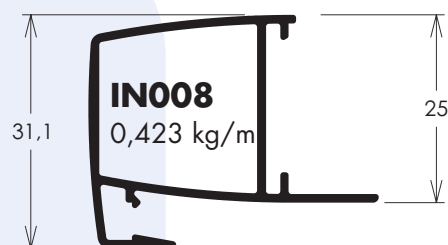
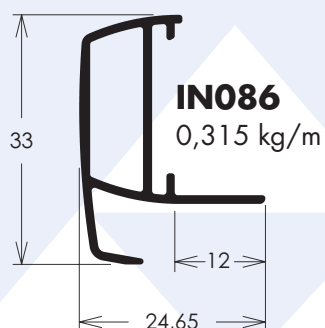
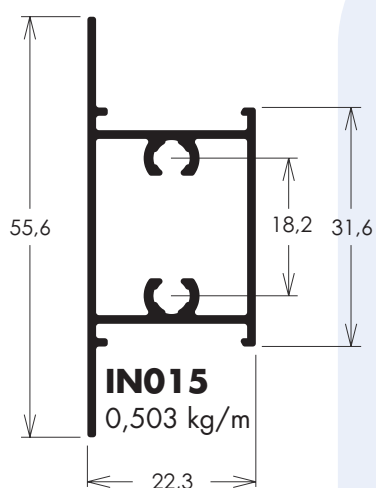
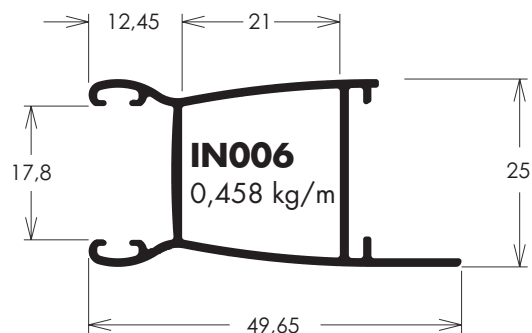
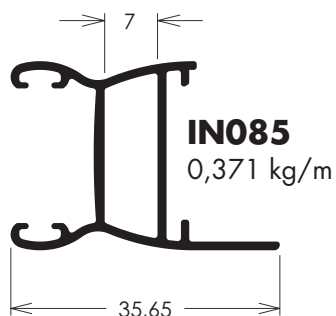
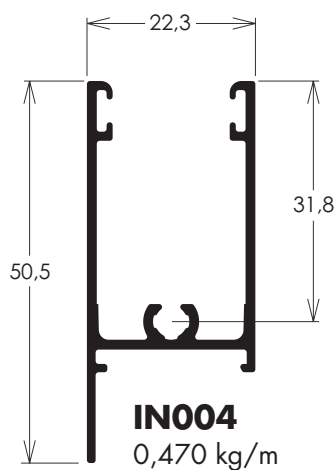


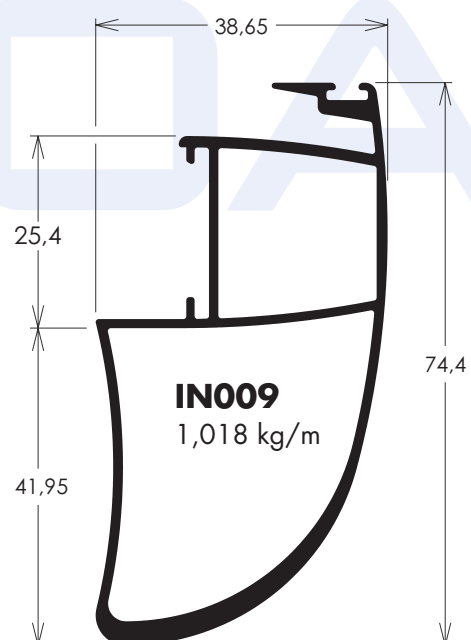
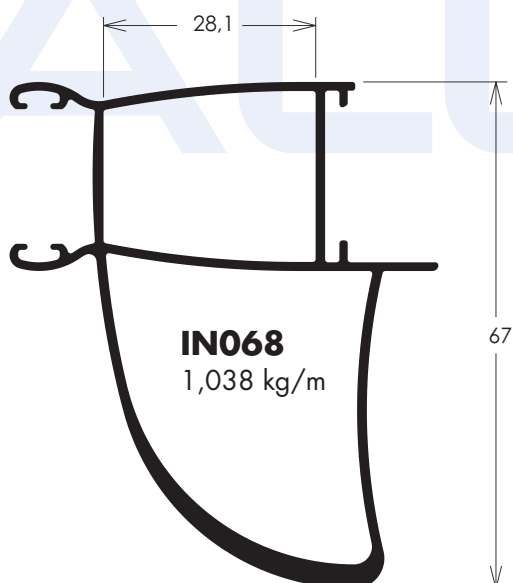
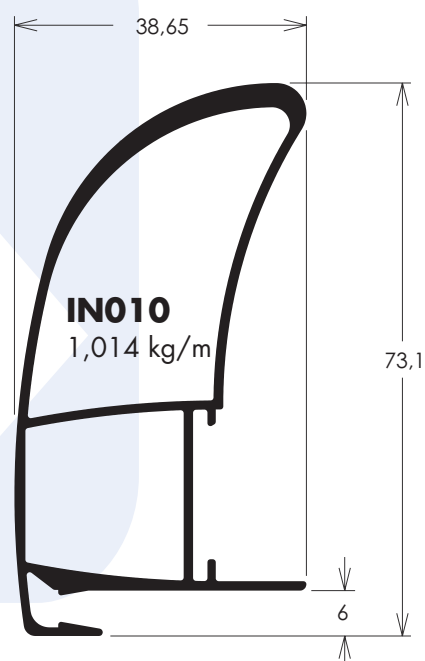
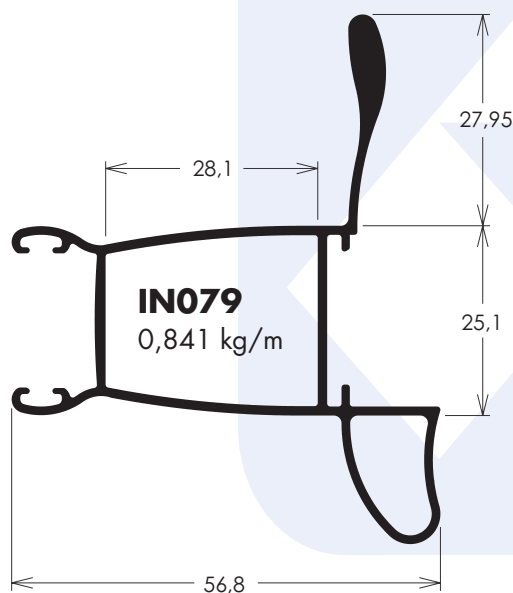
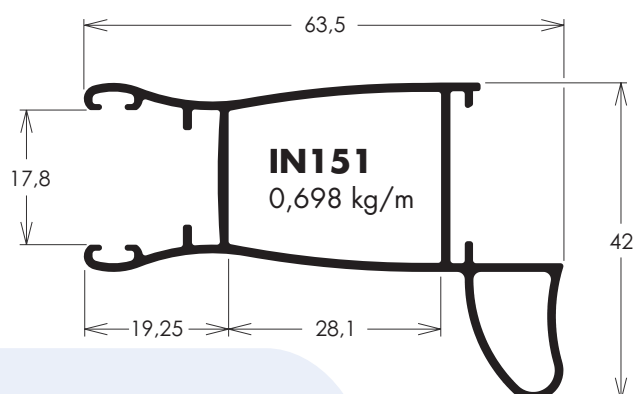
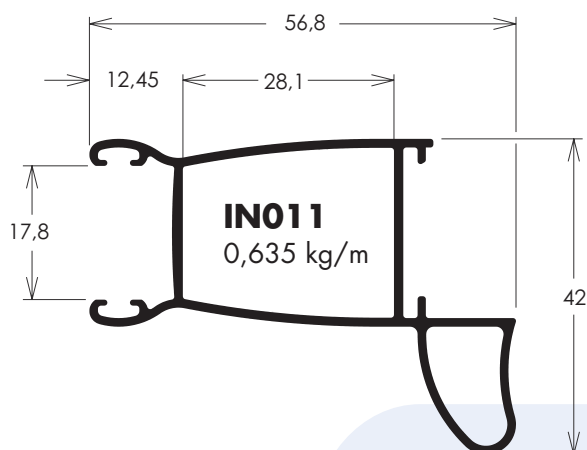


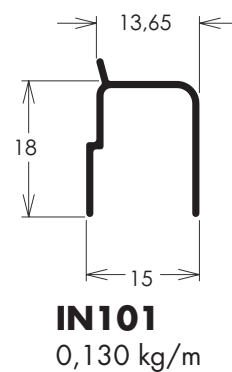
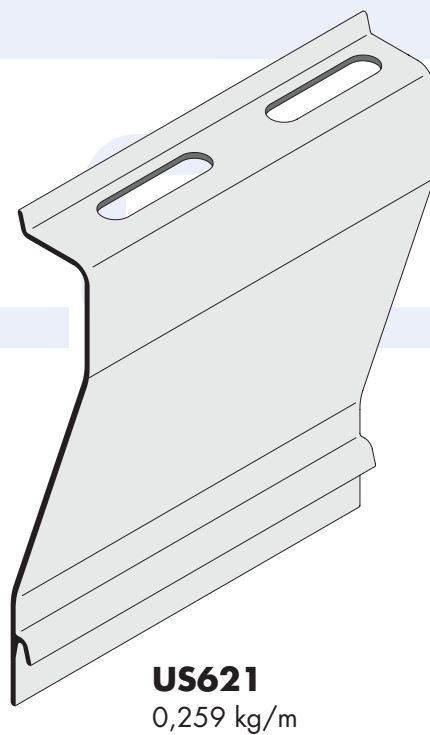
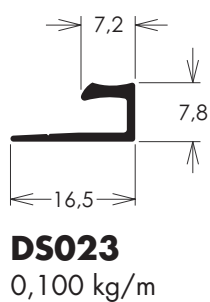
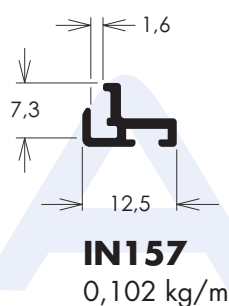
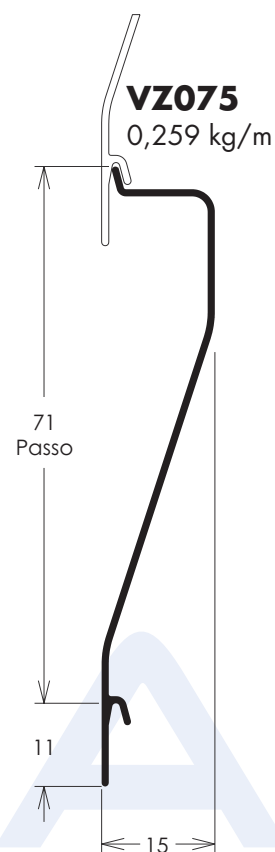
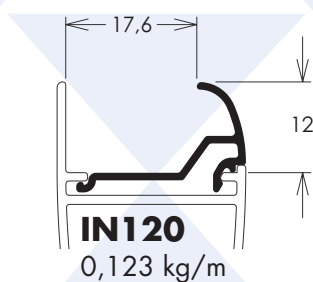
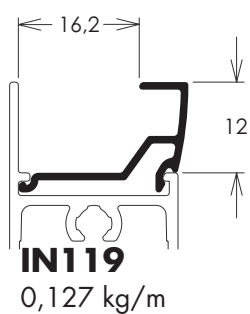
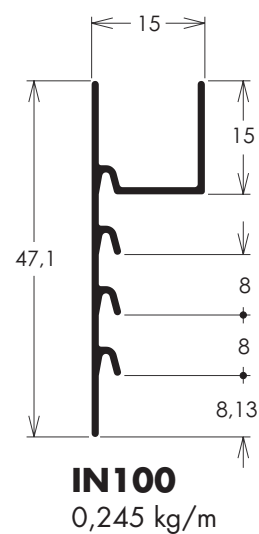
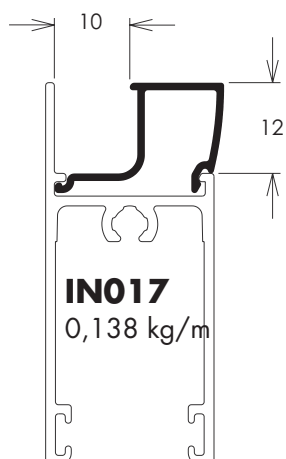


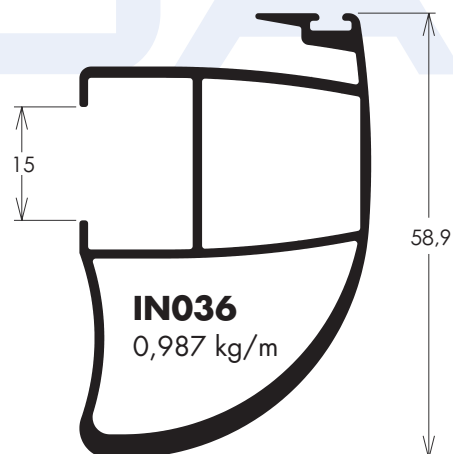
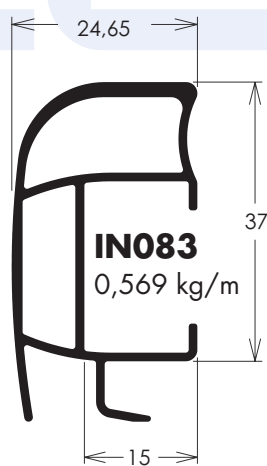
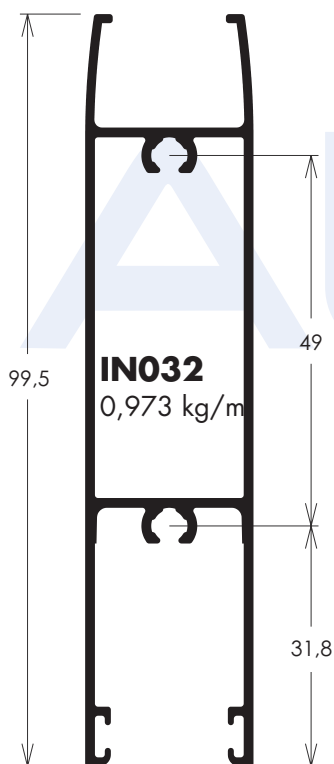
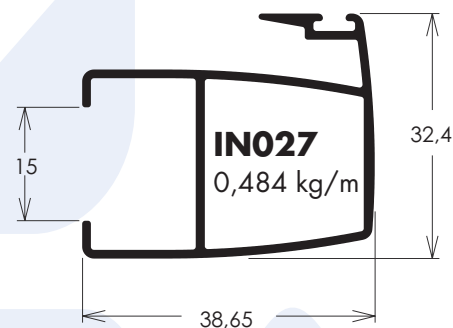
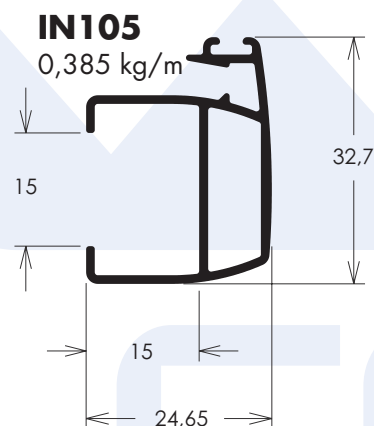
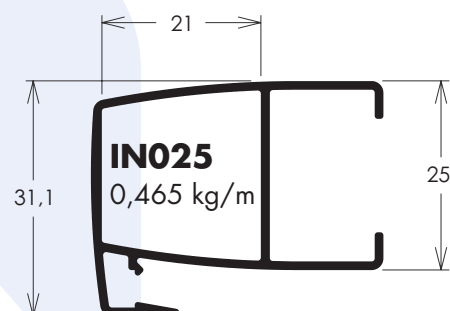
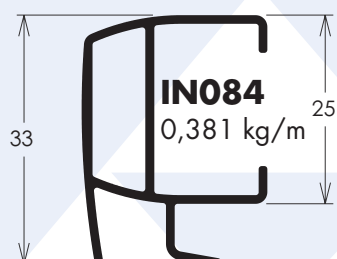
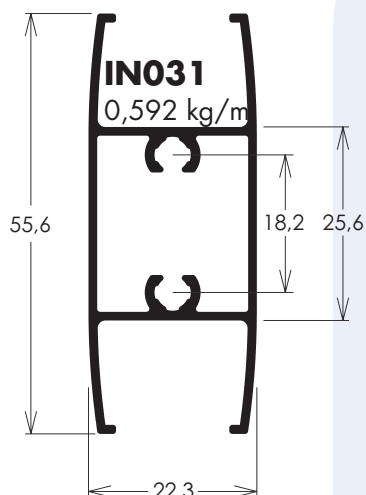
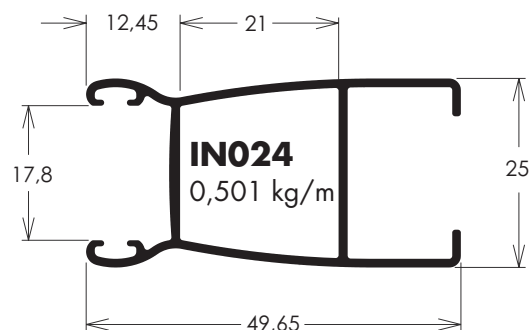
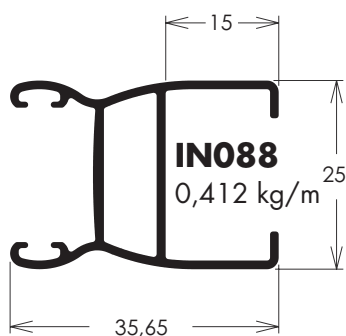
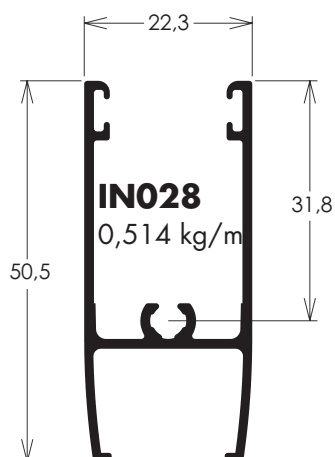


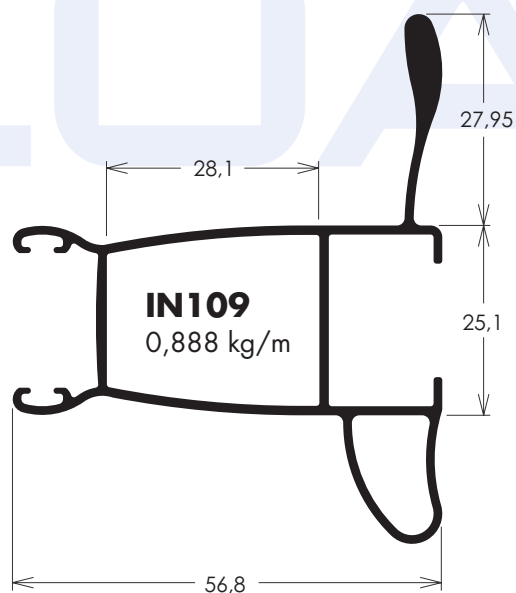
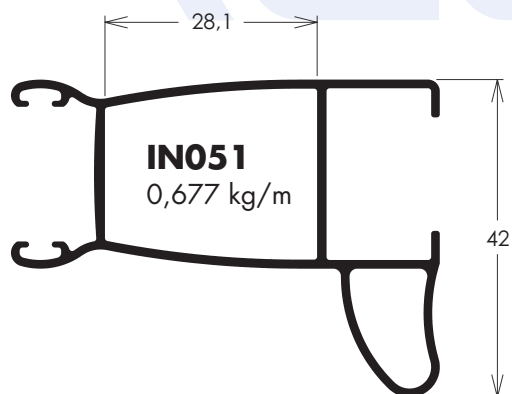
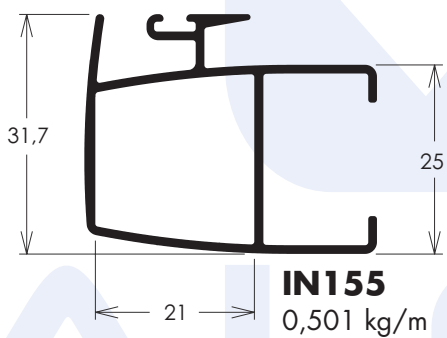
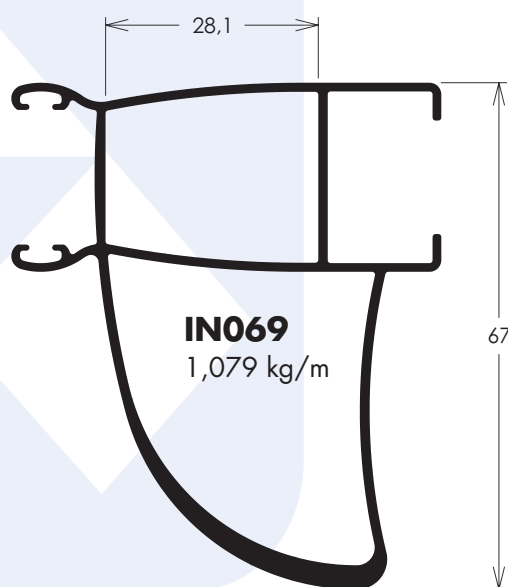
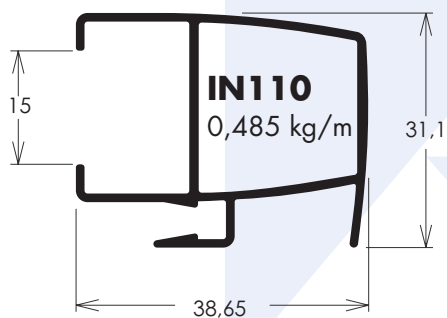
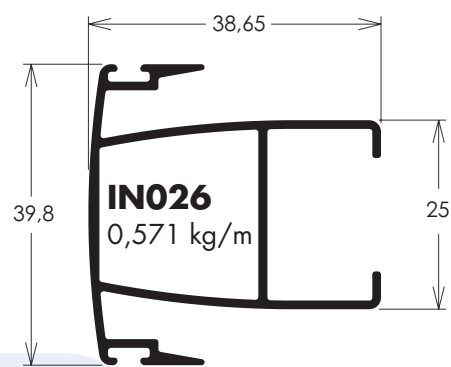
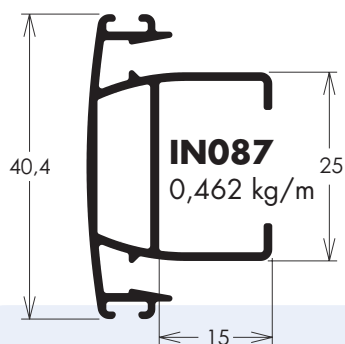
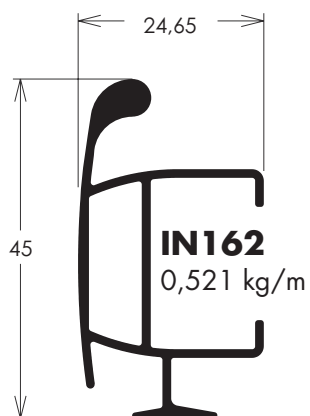


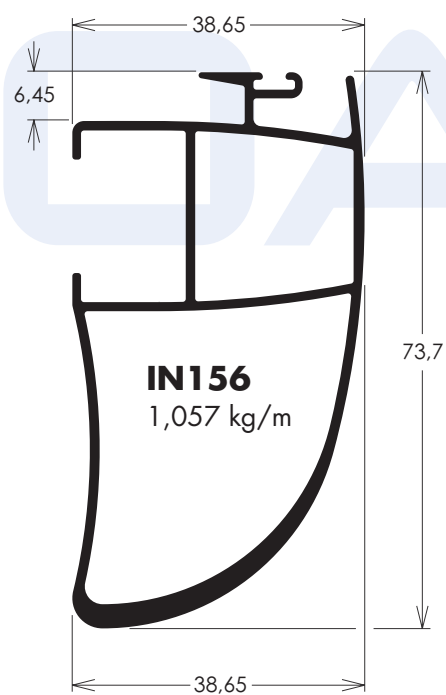
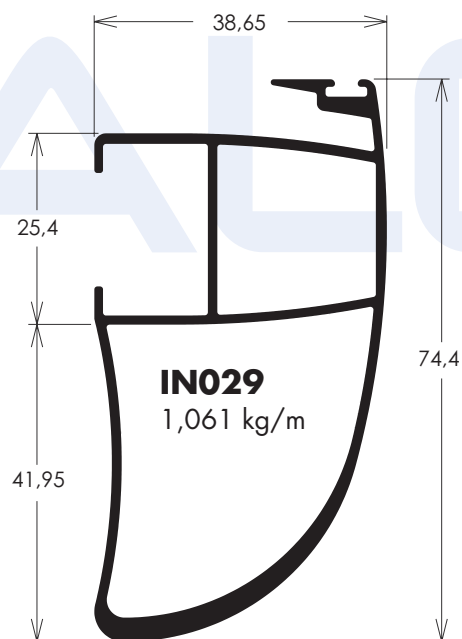
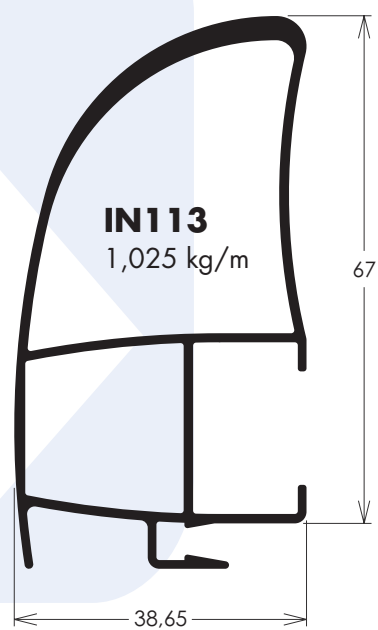
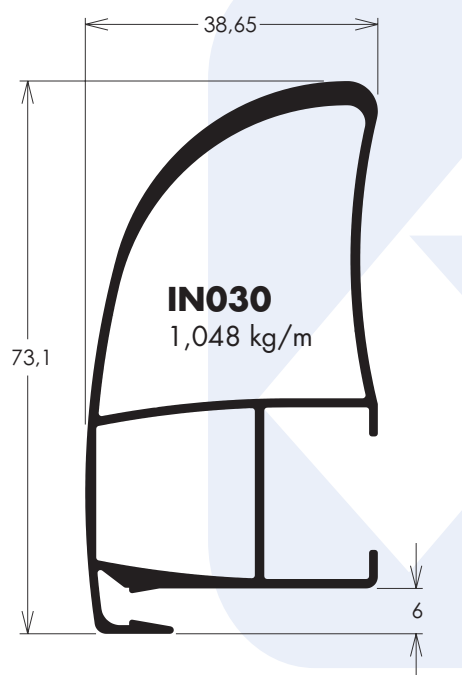
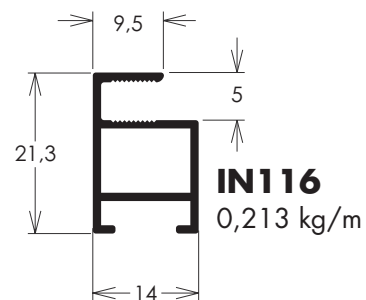
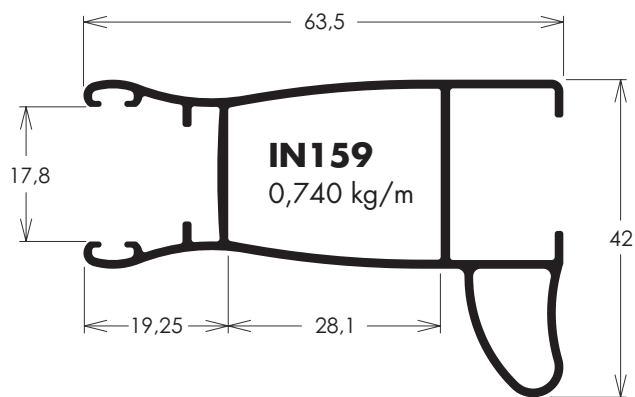


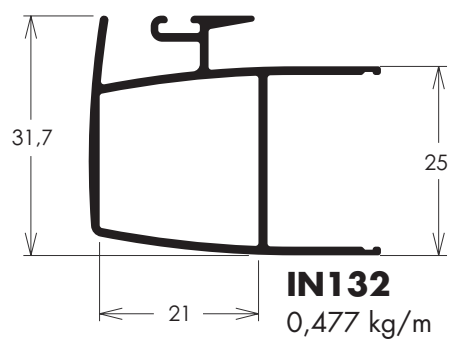
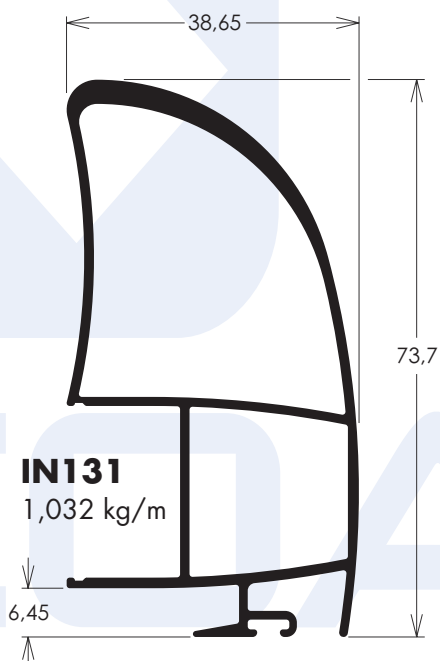
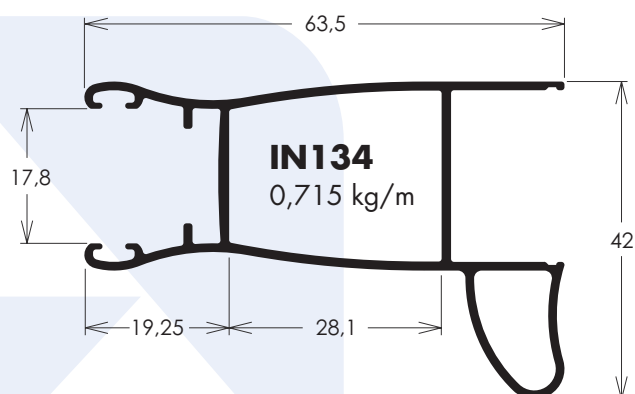
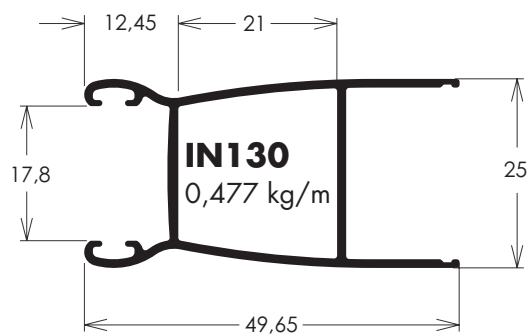
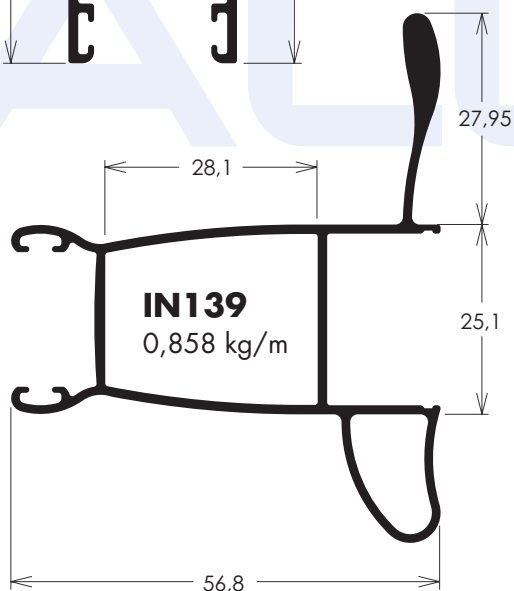
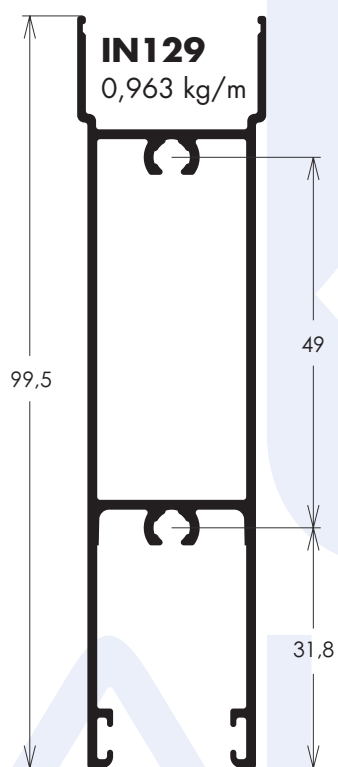
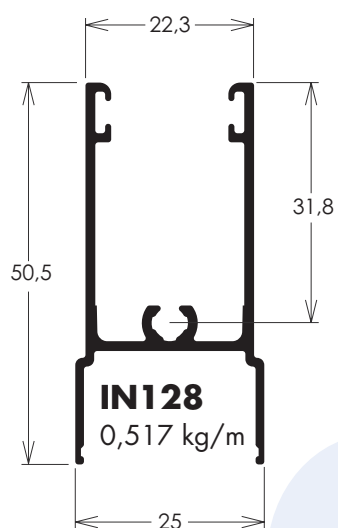


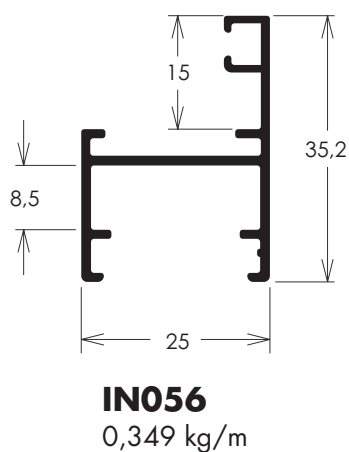
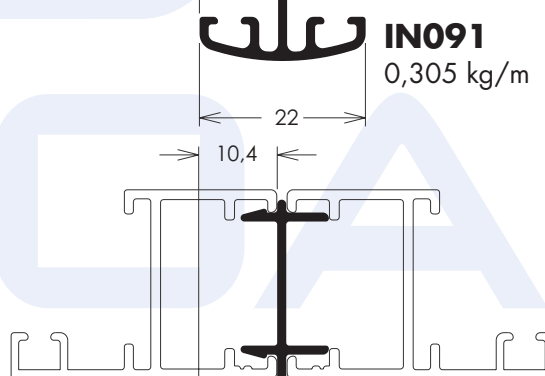
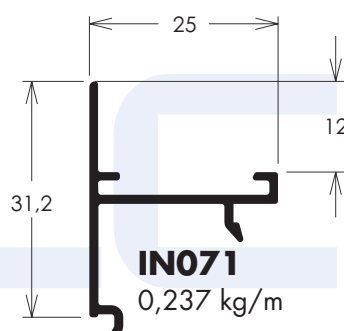
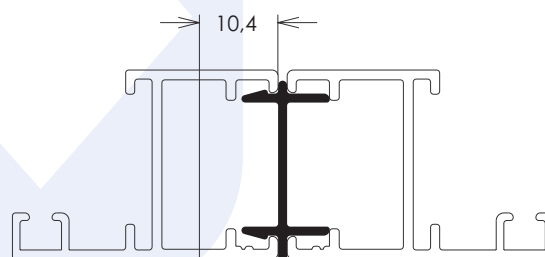
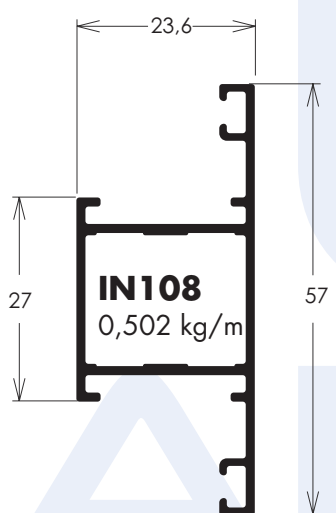
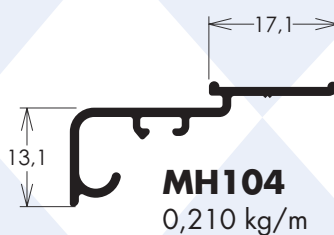
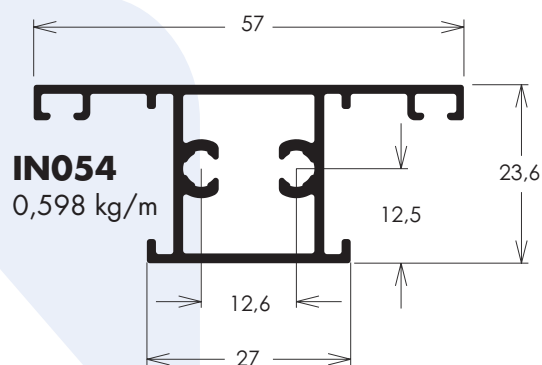
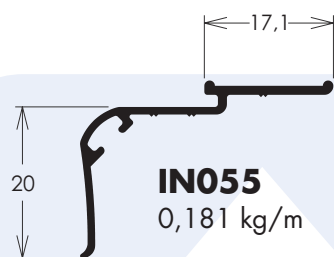
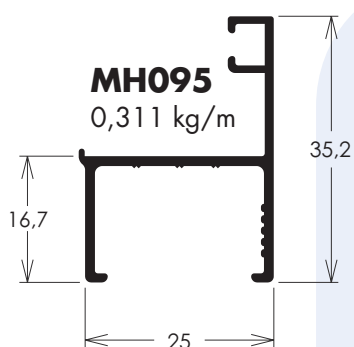
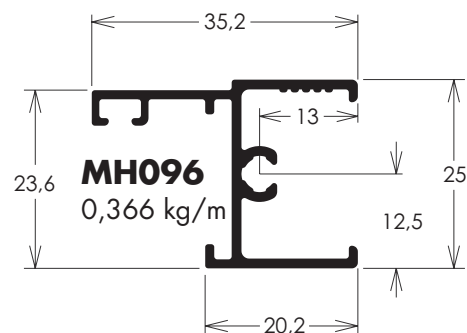
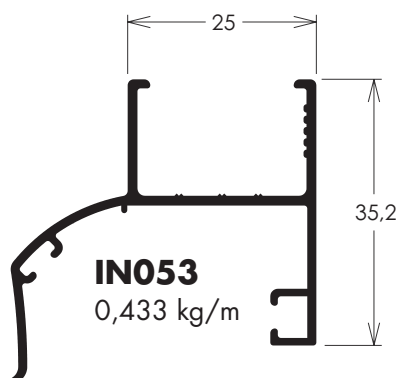


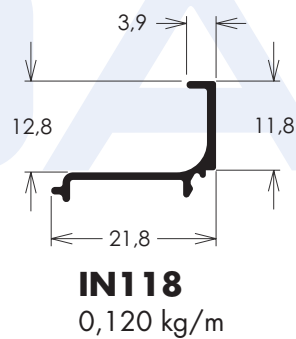
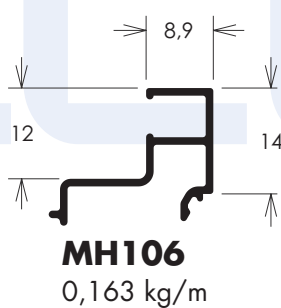
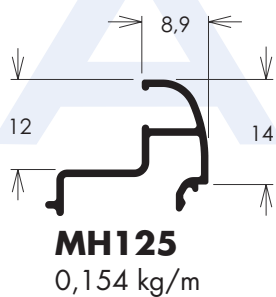
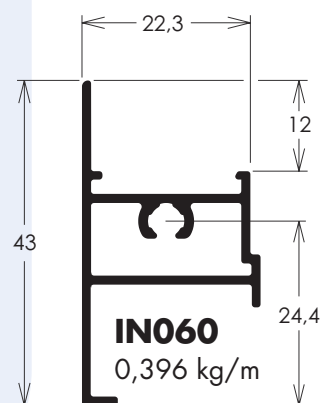
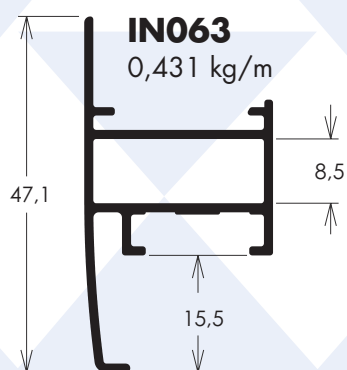
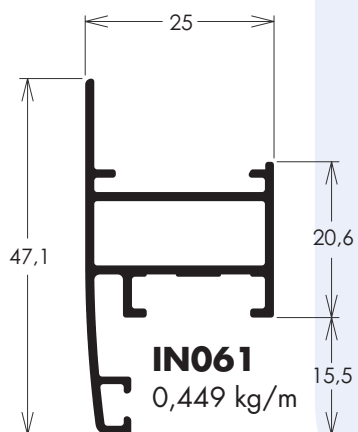
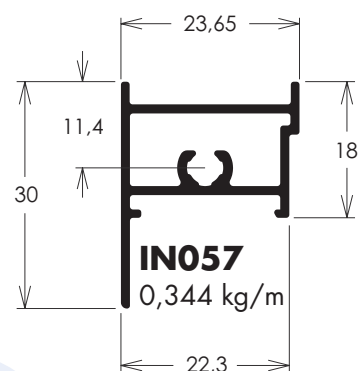
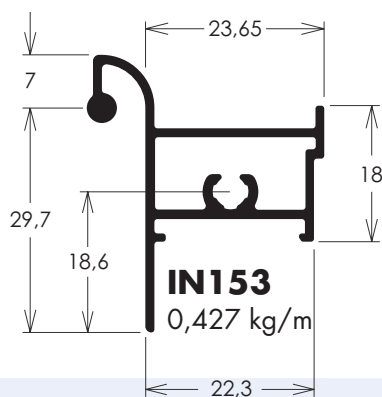
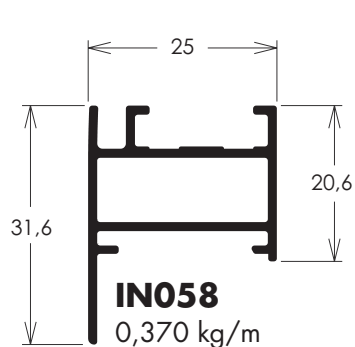


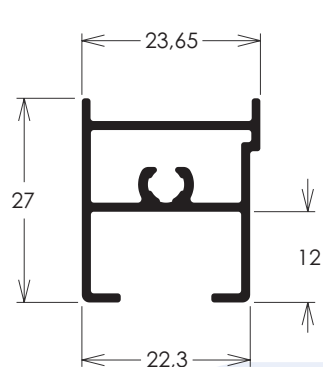




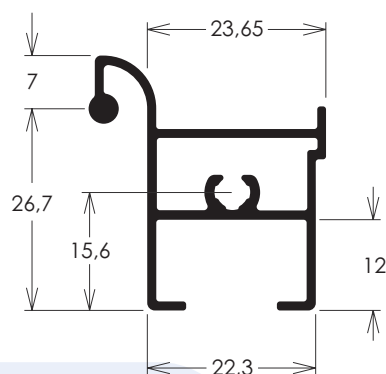




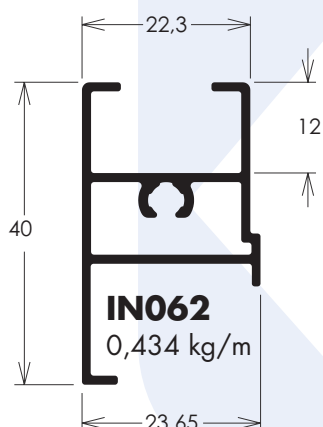




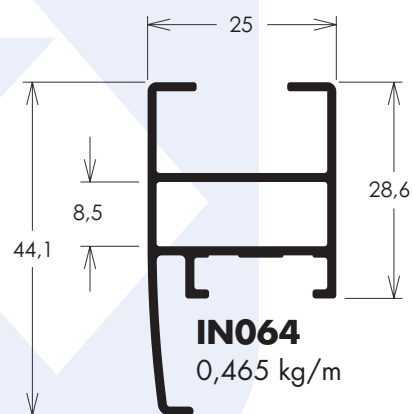
IN059
0,382 kg/m



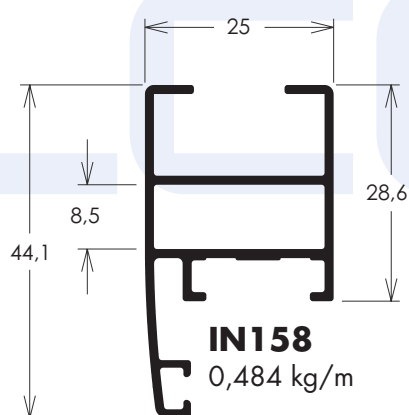
IN154
0,465 kg/m



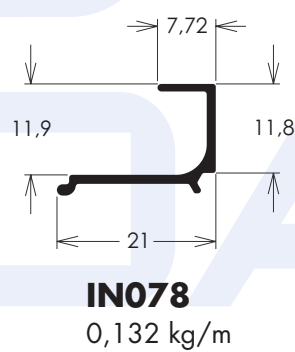
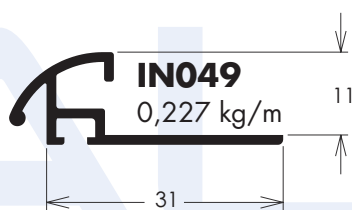
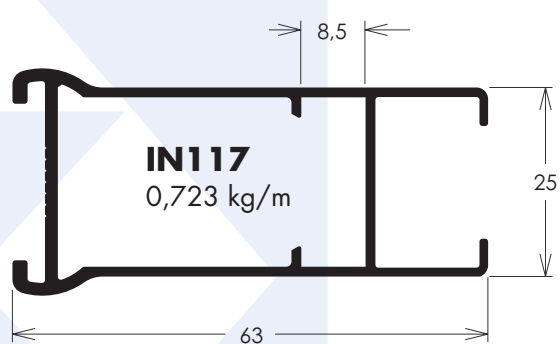
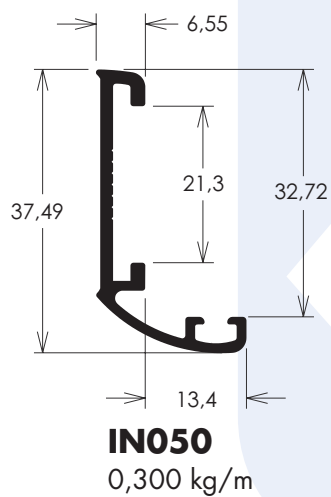
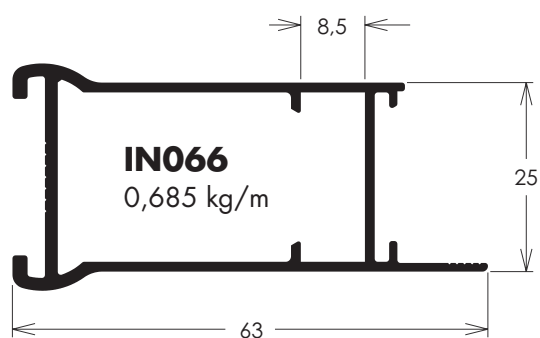
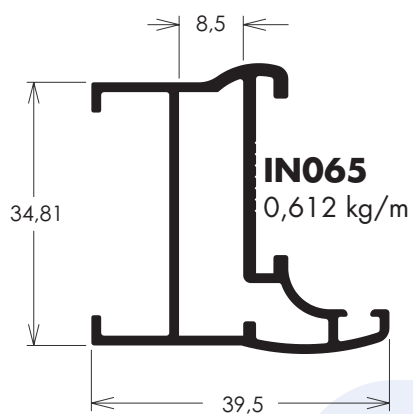
IN062
0,434 kg/m



IN064
0,465 kg/m

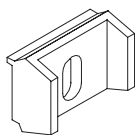


IN158
0,484 kg/m



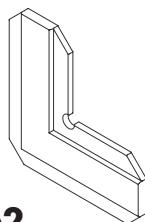
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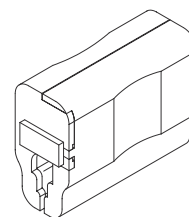
NYL190

Botão de fixação do Remate
Nylon Preto



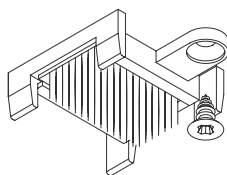
NYL462

Conexão Interna do Remate
Nylon Preto



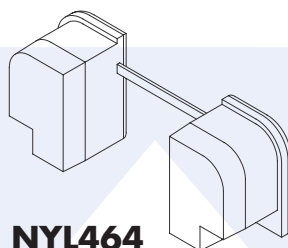
NYL451

Batedeira para Janela
Nylon Branco ou Preto



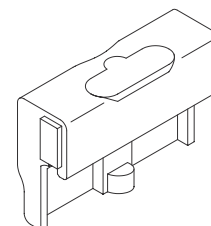
NYL453

Vedação Superior
Nylon Branco ou Preto



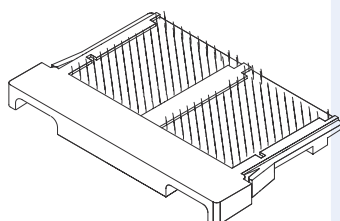
NYL464

Tampa de Topo IN001
EPDM Branco ou Preto



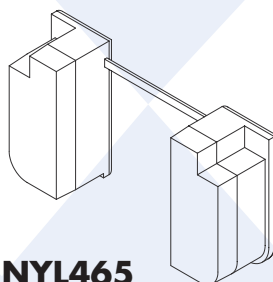
NYL460

Batedeira para Porta
Nylon Branco ou Preto



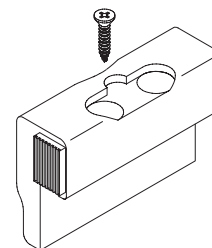
NYL452

Caixa de Dreno
Nylon Branco ou Preto



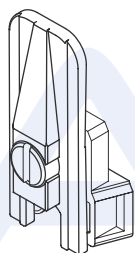
NYL465

Tampa de Topo IN002
EPDM Branco ou Preto



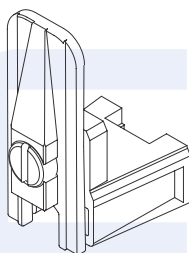
NYL478

Batedeira para Porta
com fecho Multiponto
Nylon Branco ou Preto



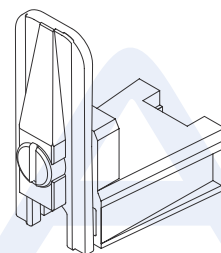
NYL467

Guia Deslizante 7mm
Nylon Branco ou Preto



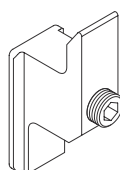
NYL454

Guia Deslizante 21mm
Nylon Branco ou Preto



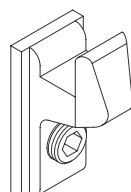
NYL456

Guia Deslizante 28mm
Nylon Branco ou Preto



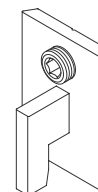
CON409

Contrafecho da Fechadura
Zamak Preto ou Branco



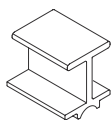
CON370

Contrafecho - Janela e Porta
Zamak Preto ou Branco



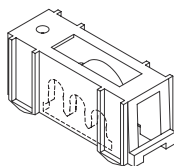
CON441

Trava da Folha Fixa
Alumínio Natural



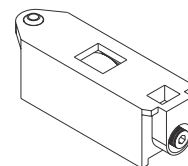
CAL948

Calço da Folha Fixa
Alumínio Natural



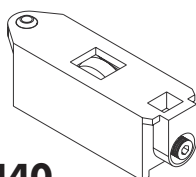
ROL461

Roldana sem Rolamento
Capacidade: 15 kg/folha



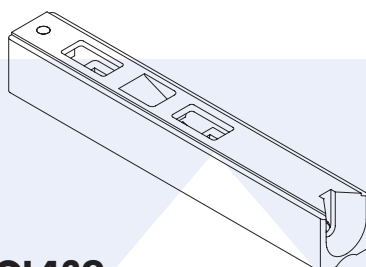
ROL426

Roldana com Reg. sem Rolam.
Capacidade: 15 kg/folha



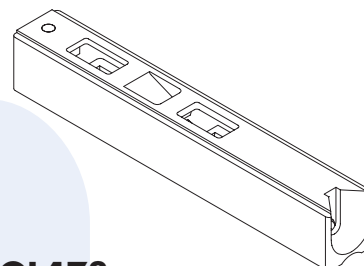
ROL440

Roldana com Reg. e Rolam.
Capacidade: 40 kg/folha



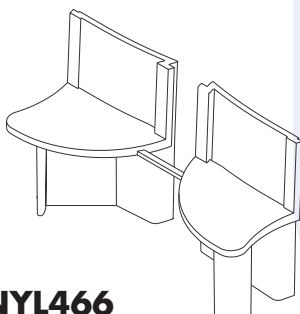
ROL439

Roldana Dupla com Reg. e Rolam.
Capacidade: 80 kg/folha



ROL478

Roldana Dupla com Regulagem
e Rolamento agulha
Capacidade: 120 kg/folha



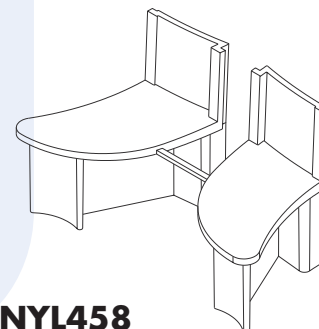
NYL466

Tampa do Montante IN035
Nylon Branco ou Preto



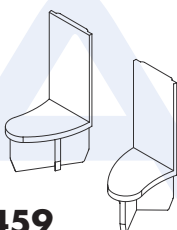
NYL457

Tampa do Montante IN009
Nylon Branco ou Preto



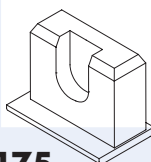
NYL458

Tampa do Montante IN010
Nylon Branco ou Preto



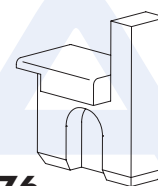
NYL459

Tampa do Montante IN011
Nylon Branco ou Preto



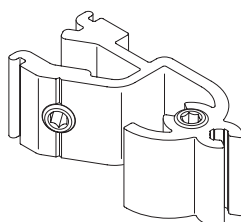
NYL475

Tampa de Acabamento
Maxim ar - Inferior
EPDM Branco ou Preto



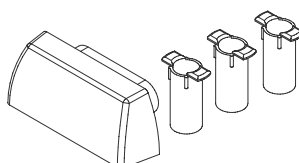
NYL476

Tampa de Acabamento
Maxim ar - Superior
EPDM Branco ou Preto



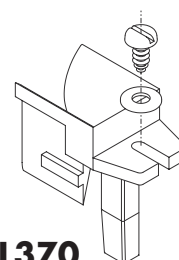
CON442

Fixador de Travessa
Alumínio natural



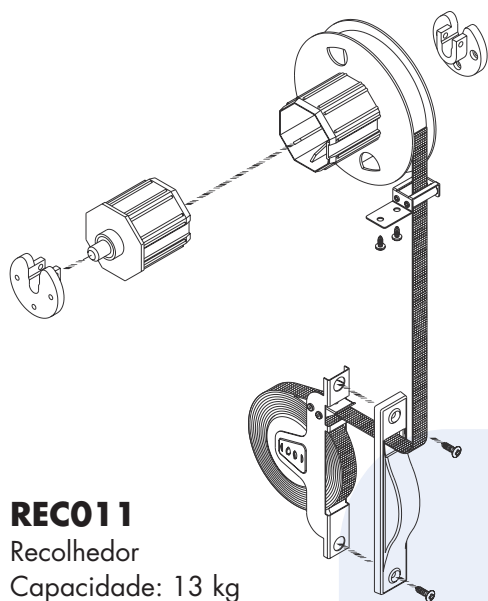
NYL1203101

Dreno
Nylon Preto



NYL370

Guia da Persiana
Nylon Branco ou Preto



REC011

Recolhedor

Capacidade: 13 kg

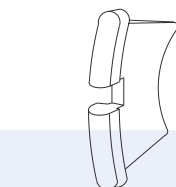
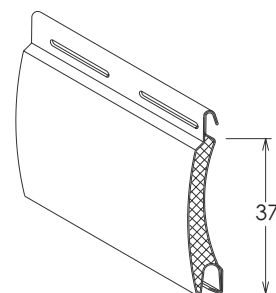
Espelho em Alumínio Branco ou Preto



NYL369

Guia e Limitador

Nylon Branco ou Preto



NYL375

Tampa da Persiana

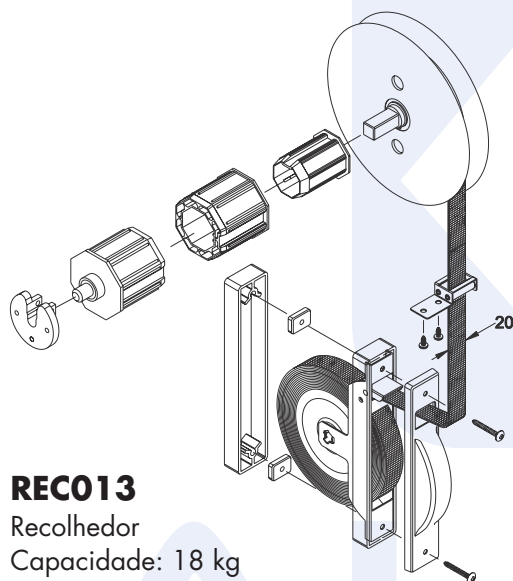
Nylon Branco ou Preto

	Com Ventilação	Sem Ventilação
Branco	VZP031	VZC110
Prata	VZP032	VZC111
Bronze 1003	VZP033	VZC112
Preto	VZP034	VZC113
Bronze 1002	VZP035	VZC114

Persiana Nacional / Barras com 6000 mm

	Com Ventilação	Sem Ventilação
Branco	VZP036	VZC115
Prata	VZP037	VZC116
Bronze 1003	VZP038	VZC117
Preto	VZP039	VZC118

Persiana Importada / Barras com 5800 mm

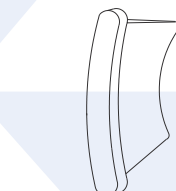


REC013

Recolhedor

Capacidade: 18 kg

Espelho em Alumínio Branco ou Preto

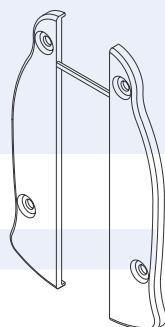


NYL447

Tampa da Persiana

Grampeada

Nylon Preto

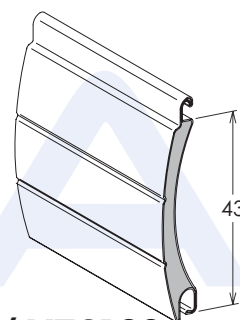


NYL469

Tampa da Caixa

Janela Integrada

Nylon Branco ou Preto

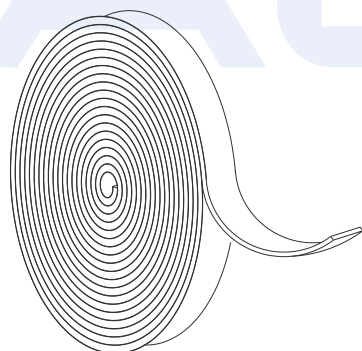


VZP045 / VZC122

Persiana nacional

Barras com 6000mm

Branco, Preto, Fosco, Bronze e Bege

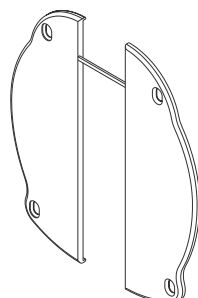


FIT247

Fita de Ligação

da Persiana

Nylon Preto



NYL468

Tampa da Caixa

Porta Integrada

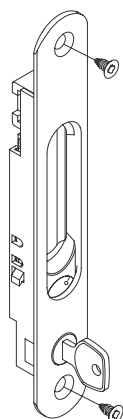
Nylon Branco ou Preto



NYL743

Tampa da Persiana VZP045

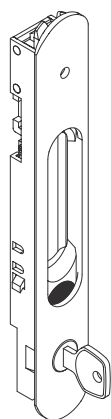
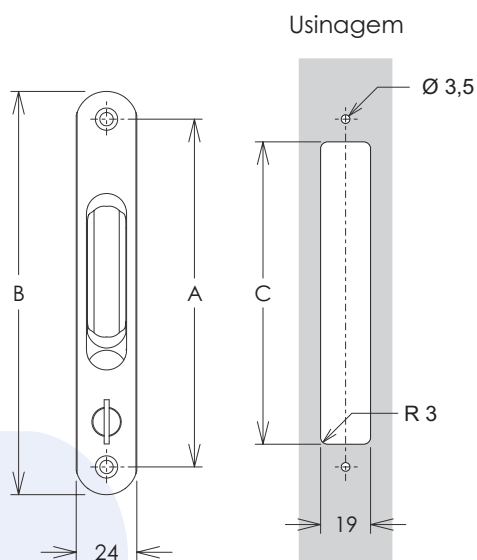
Nylon Branco ou Preto



	Janelas	Portas
Fecho Concha	FEC1028	FEC1029
Concha com Chave	FEC1027	FEC1030
Concha Cega	CON444	CON445

Alumínio Branco ou Preto

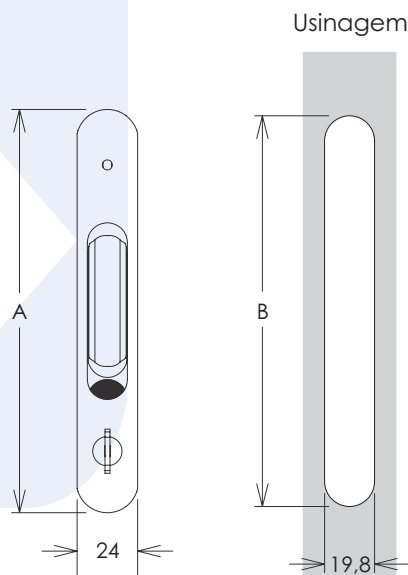
Medidas das usinagens	Janelas	Portas
A	138	170
B	160	192
C	120	120



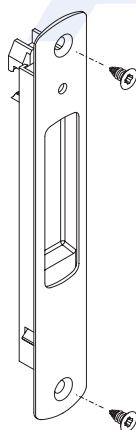
	Janelas	Portas
Fecho Concha	FEC1032	FEC1034
Concha com Chave	FEC1031	FEC1033
Concha Cega	CON446	CON447

Alumínio Branco ou Preto

Medidas das usinagens	Janelas	Portas
A	160	192
B	155	187



Obs.: Todos os fechos e conchas com chave acima, utilizam lingüeta TRA005



FEC1026

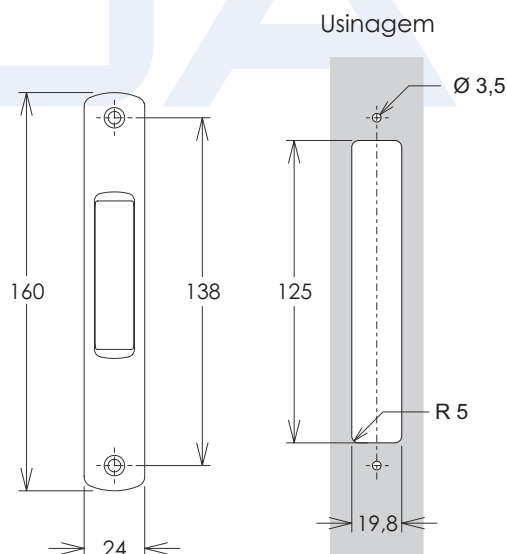
Fecho Concha

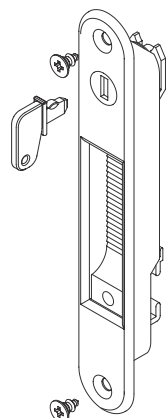
Alumínio Branco ou Preto
(Utiliza lingüeta TRA006)

CON443

Concha Cega

Alumínio Branco ou Preto

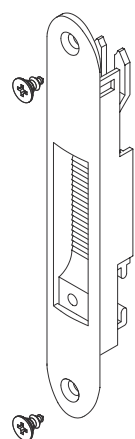
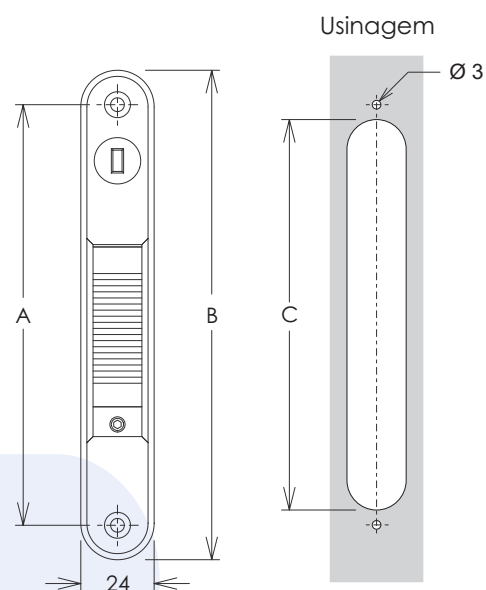




	Janelas	Portas
Fecho Concha com Chave	FEC1043	FEC1047
Fecho Concha	FEC1045	FEC1049
Concha Cega	CON450	CON451

Alumínio Branco ou Preto

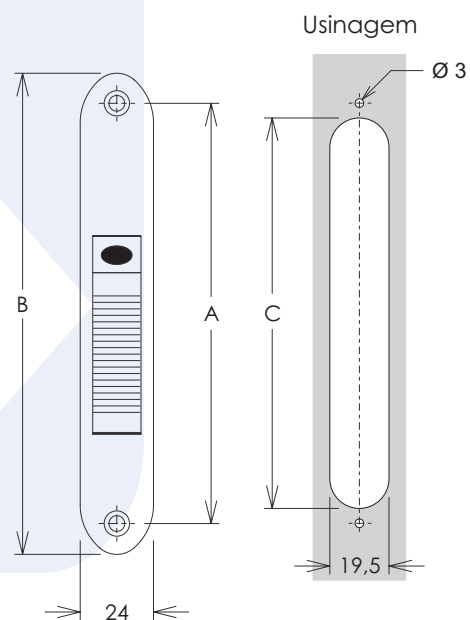
Medidas das usinagens	Janelas	Portas
A	138	170
B	161	192
C	125	158



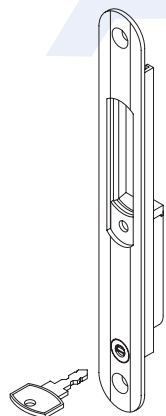
	Janelas	Portas
Fecho Autom. Com Chave	FEC1036	FEC1040
Fecho Concha Automático	FEC1038	FEC1042
Concha Cega	CON448	CON449

Alumínio Branco ou Preto

Medidas das usinagens	Janelas	Portas
A	138	180
B	158	204
C	129	133



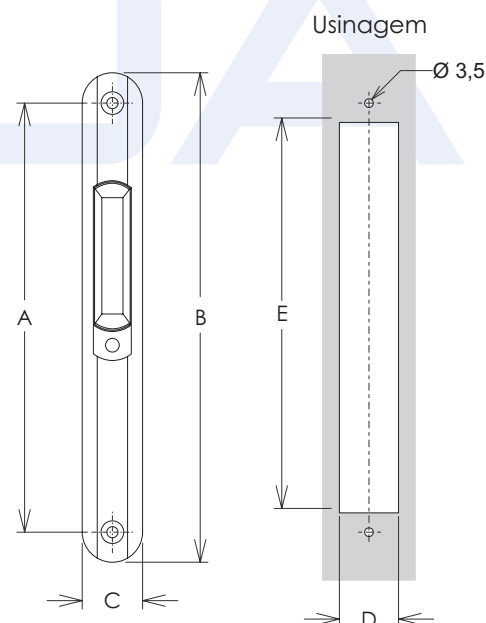
Obs.: Todos os fechos e conchas com chave acima, utilizam lingüeta TRA007

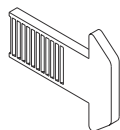


	Janelas	Portas
Fecho Concha com Chave	FEC1064	FEC1063
Fecho Concha	FEC1061	FEC1062
Concha Cega	CON280	FEC1013
Lingüeta	TRA014	TRA013

Alumínio Branco ou Preto

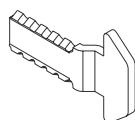
Medidas das usinagens	Janelas	Portas
A	138	170
B	153	194
C	26	24
D	20,5	20
E	120	142





TRA005

Trava para fecho
Aço Inox



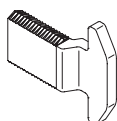
TRA006

Trava para fecho
Aço Inox



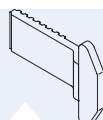
TRA007

Trava para fecho
Aço Inox



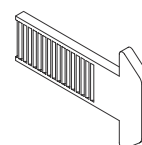
TRA013

Trava para fecho
Zamak



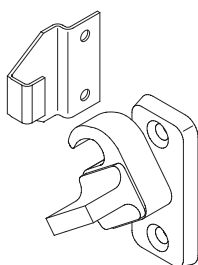
TRA014

Trava para fecho
Aço Inox



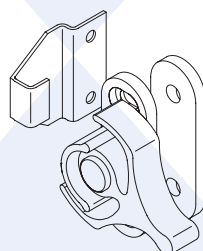
TRA015

Trava para fecho
(p/ perfil IN151)
Aço Inox



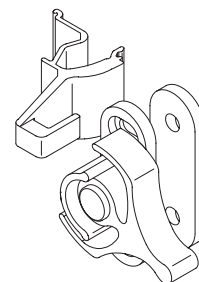
FEC1019

Fecho Caracol
para folha veneziana
Alumínio Preto



FEC1024

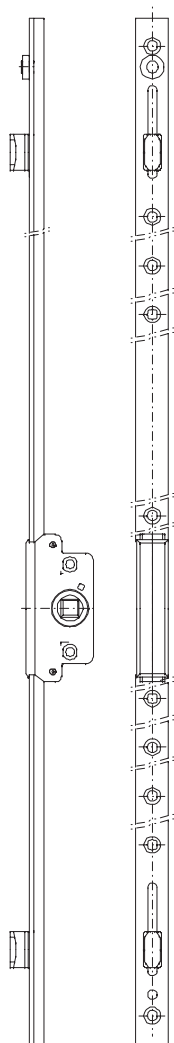
Fecho Central
Sem baguete
Alumínio Preto



FEC1025

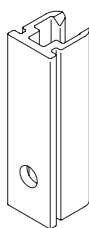
Fecho Central
Com baguete
Alumínio Preto

ALCOA



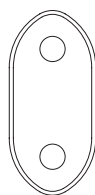
CON454

Contrafecho - Cremona
Alumínio Branco ou Preto



ESP955

Espelho p/ cilindro
Nylon Branco ou Preto



NYL479

Calço da Cremona
Nylon Branco ou Preto



Kit trava 2 pontos

Medidas	Sem Chave	Com Chave
800	KIT610	KIT613
1300	KIT611	KIT614
1600	KIT612	KIT615

Alumínio e Zamac

KIT616

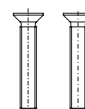
Kit trava 1 ponto
300mm - Sem chave
Alumínio e Zamac

KIT617

Kit trava 1 ponto
500mm - Com chave
Alumínio e Zamac

HAS925

Conjunto Haste / Parafuso
55mm - Cremona s/ chave
Aço Inox



FEC1066 FEC1068

Fecho Cremona
Alumínio Branco ou Preto

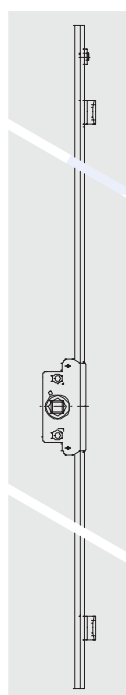


FEC1067 FEC1069

Fecho Cremona
Alumínio Branco ou Preto

Cremona

Composição de conjunto Multiponto

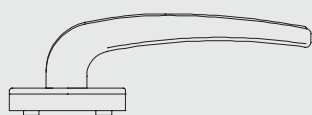


+

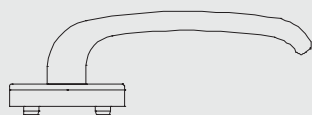
OU

+

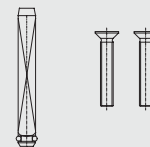
+



Maçaneta



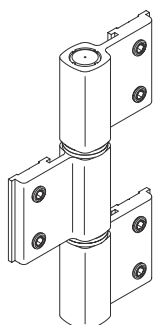
Maçaneta



Conjunto haste/parafuso

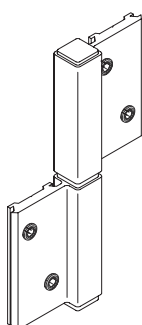


Contrafecho - Cremona



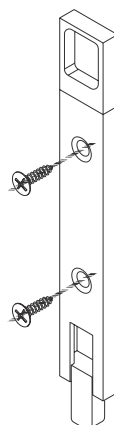
DOB852

Dobradiça 3 abas
Alumínio Branco ou Preto



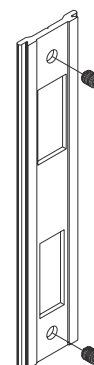
DOB853

Dobradiça 2 abas
Alumínio Branco ou Preto



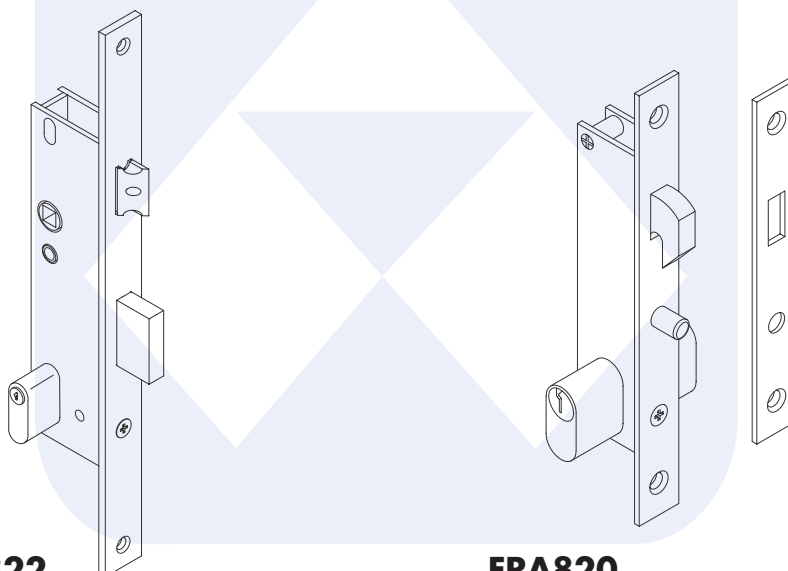
FEC338

Fecho Unha de Sobrepor
Alumínio e Nylon Preto



CON453

Contratesta
Alumínio Branco ou Preto

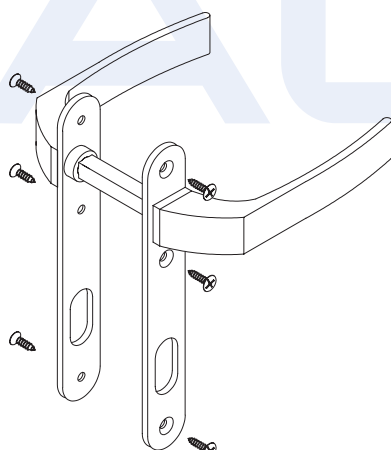


FRA822

Fechadura - Porta de Giro
Latão Fumê

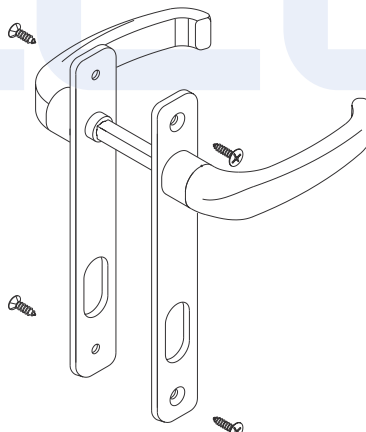
FRA820

Fechadura - Porta de Correr
Latão Fumê



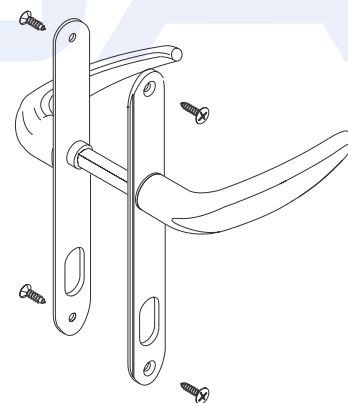
MAC927

Maçaneta com Espelho
Alumínio Branco ou Preto



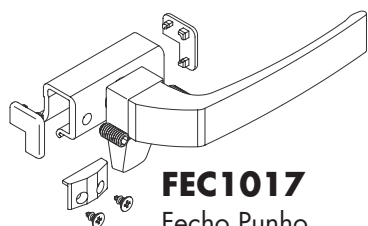
MAC1004

Maçaneta com Espelho
Alumínio Branco ou Preto



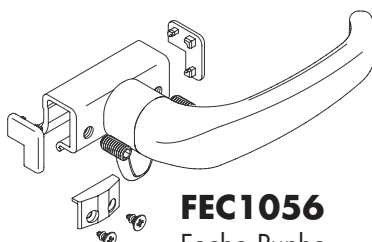
MAC1005

Maçaneta com Espelho
Alumínio Branco ou Preto



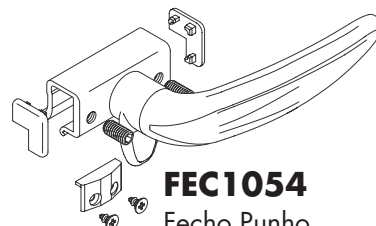
FEC1017

Fecho Punho
Folha com Baguele
Alumínio Branco ou Preto



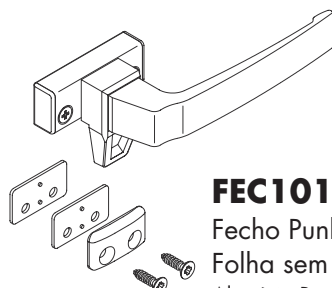
FEC1056

Fecho Punho
Folha com Baguele
Alumínio Branco ou Preto



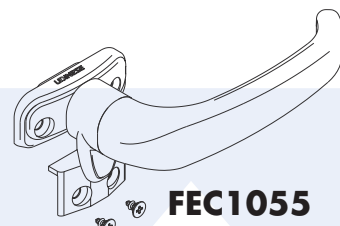
FEC1054

Fecho Punho
Folha com Baguele
Alumínio Branco ou Preto



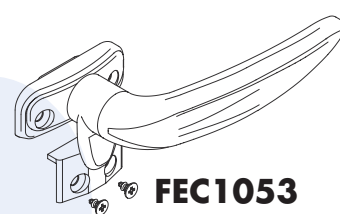
FEC1014

Fecho Punho
Folha sem Baguele
Alumínio Branco ou Preto



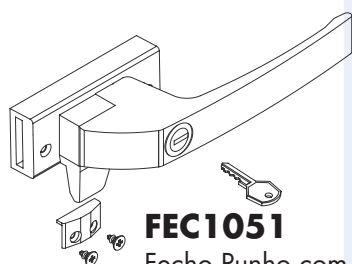
FEC1055

Fecho Punho
Folha sem Baguele
Alumínio Branco ou Preto



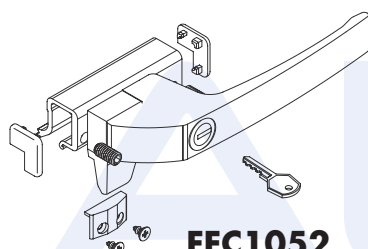
FEC1053

Fecho Punho
Folha sem Baguele
Alumínio Branco ou Preto



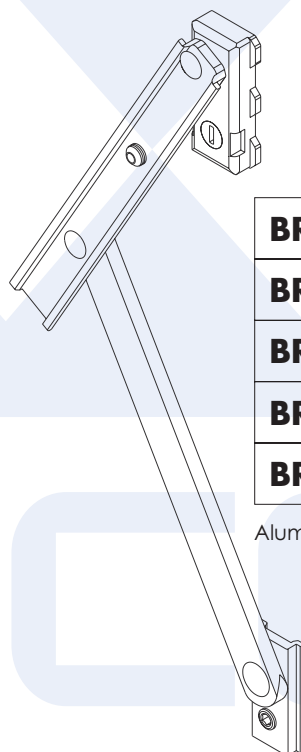
FEC1051

Fecho Punho com Chave
Folha sem Baguele
Alumínio Branco ou Preto



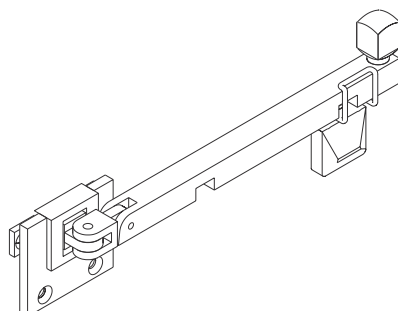
FEC1052

Fecho Punho com Chave
Folha com Baguele
Alumínio Branco ou Preto



	Dimensão	Altura da Folha	Carga Máxima
BRA783	180	Min: 200 Max: 300	4,2 kg
BRA775	250	Min: 270 Max: 430	6 kg
BRA776	400	Min: 420 Max: 610	8 kg
BRA777	600	Min: 620 Max: 760	10 kg
BRA778	750	Min: 770 Max: 900	11 kg

Alumínio Natural

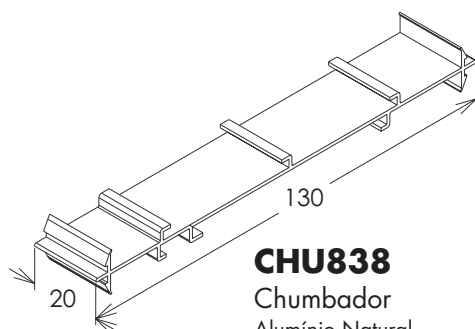


FEC1015

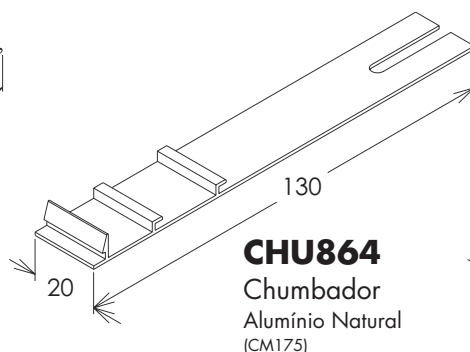
Fecho Haste
Folha sem Baguele
Alumínio Branco ou Preto

FEC1018

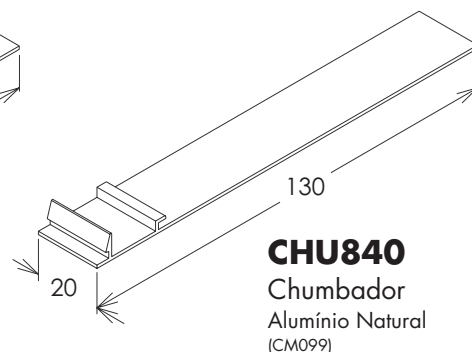
Fecho Haste
Folha com Baguele
Alumínio Branco ou Preto



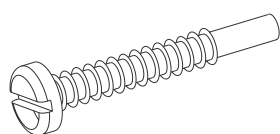
CHU838
Chumbador
Alumínio Natural
(CM093)



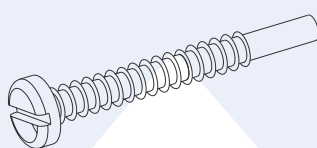
CHU864
Chumbador
Alumínio Natural
(CM175)



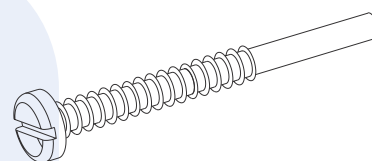
CHU840
Chumbador
Alumínio Natural
(CM099)



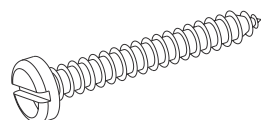
PAR436
Parafuso AA Ø 3,9 x 28mm
Aço Inox



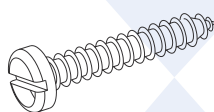
PAR428
Parafuso AA Ø 4,8 x 32mm
Aço Inox



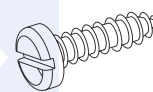
PAR431
Parafuso AA Ø 4,8 x 50mm
Aço Inox



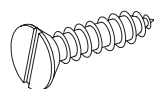
PAR694
Parafuso AA Ø 4,2 x 32mm
Aço Inox



PAR693
Parafuso AA Ø 4,2 x 25mm
Aço Inox



PAR936
Parafuso AA Ø 4,2 x 16mm
Aço Inox



PAR720
Parafuso AA Ø 4,2 x 16mm
Aço Inox



PAR437
Parafuso AA Ø 3,5 x 9,5mm
Aço Inox



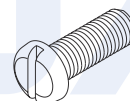
PAR703
Parafuso AA Ø 3,5 x 9,5mm
Aço Inox Preto



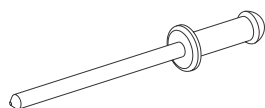
PAR434
Parafuso AA Ø 3,9 x 9,5mm
Aço Inox



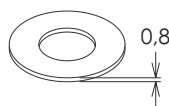
PAR704
Parafuso AA Ø 3,9 x 6,5mm
Aço Inox Preto



PAR1001
Parafuso M4 x 10mm
Aço Inox



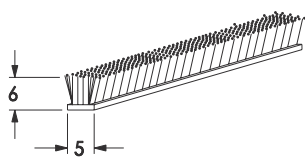
REB117
Rebite Ø 3,2 x 10,2mm
Alumínio Natural



ARR569
Arruela Lisa
Ø 4,3 x Ø 9mm
Aço Inox

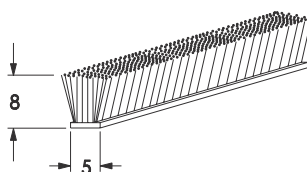


NYL042
Botão Tampa furo
Nylon Preto ou Branco



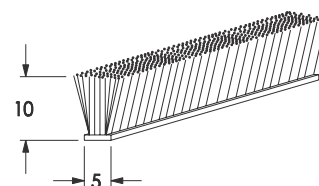
FIT206

Fita Vedadora 5 x 6mm
Preta



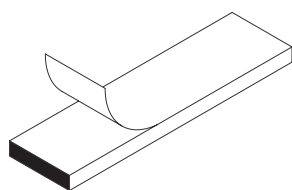
FIT212

Fita Vedadora 5 x 8mm
Preta



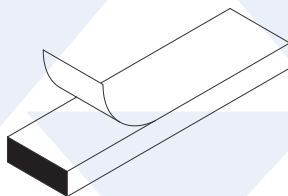
FIT214

Fita Vedadora 5 x 10mm
Preta



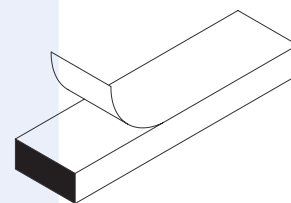
GUA172

Guarn. Ades. Esponjosa
11mm x 1,8mm
Preta



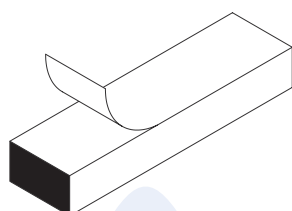
GUA171

Guarn. Ades. Esponjosa
11mm x 3,2mm
Preta



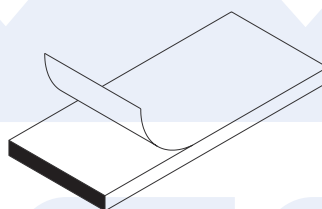
GUA258

Guarn. Ades. Esponjosa
11mm x 4,8mm
Preta



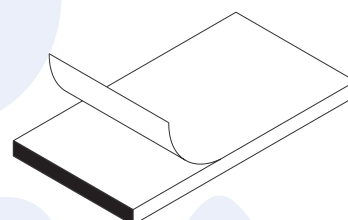
GUA157

Guarn. Ades. Esponjosa
11mm x 6,4mm
Preta



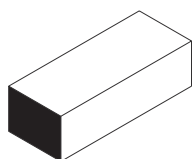
GUA228

Guarn. Adesiva Esponjosa
17,5mm x 1,81mm
Preta



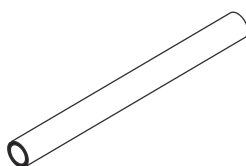
GUA282

Guarn. Adesiva Esponjosa
22mm x 2,1mm
Preta



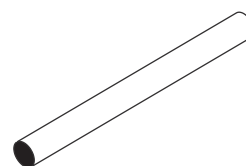
GUA393

Calço de Apoio do Vidro
8mm x 6mm x 20mm
EPDM Preto



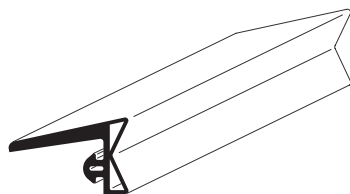
GUA006

Vedação do Engate
Ø 5mm
EPDM Preto



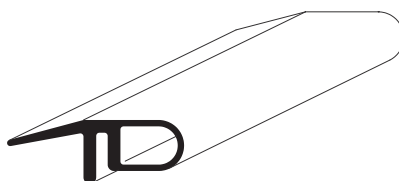
GUA397

Fixação Tela Mosquiteira
Ø 5mm
EPDM Preto



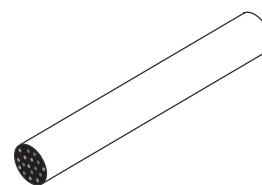
GUA320

Guarnição
do Contramarco
EPDM Preto



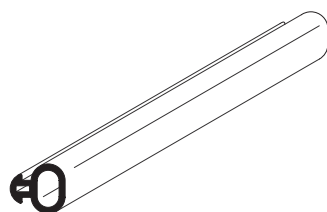
GUA329

Guarnição Inferior
EPDM Preto



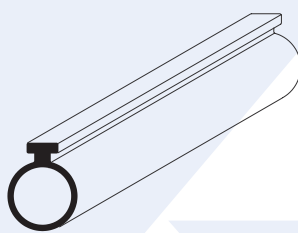
GUA314

Proteção para canal
do Contramarco Ø 6mm
Tarucel Ciza



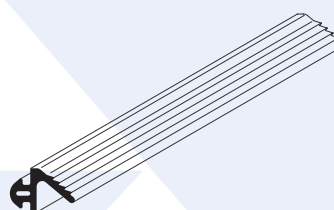
GUA396

Guarn. do Marco
Porta de Giro
EPDM Preto



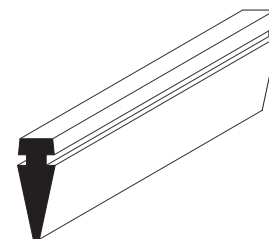
GUA007

Guarnição
da Pingadeira
EPDM Preto



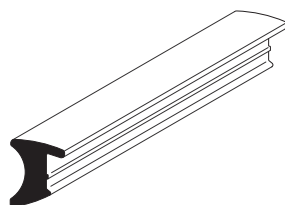
GUA239

Guarnição do Marco
EPDM Preto



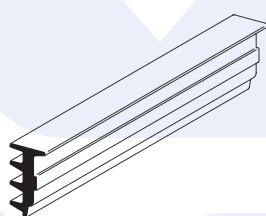
GUA392

Vedação de Porta
EPDM Preto



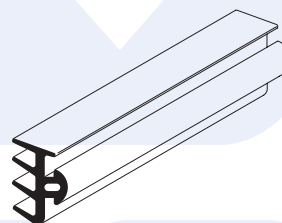
GUA039

Guarnição Cunha
EPDM Preto



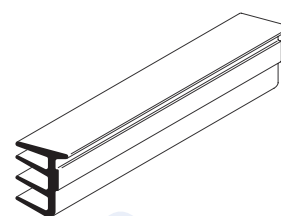
GUA259

Guarnição do Vidro
EPDM Preto



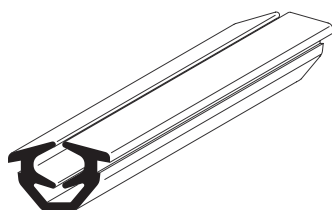
GUA399

Guarnição do Vidro
EPDM Preto



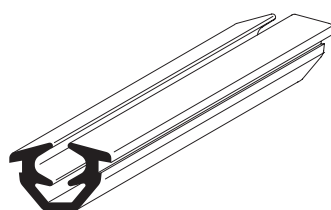
GUA256

Guarnição do Vidro
EPDM Preto



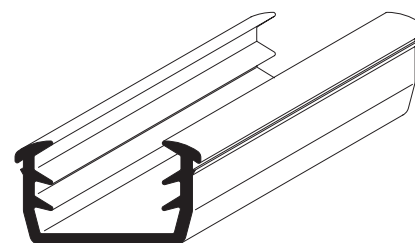
GUA385

Guarnição para Vidro
de 3mm e 4mm
EPDM Preto



GUA386

Guarnição para Vidro
de 5mm e 6mm
EPDM Preto



GUA398

Guarnição para Vidro Duplo
de 18mm
EPDM Preto

Alternativas construtivas - Guarnições para vidro

Detalhes	Espessura do vidro	Guarnição Interna	Guarnição Externa
	3	GUA256	GUA157
	4	GUA256	GUA157
	5	GUA256	GUA258
	6	GUA259	GUA157
	3	GUA256	GUA258
	4	GUA256	GUA258
	5	GUA256	GUA171
	6	GUA259	GUA157
	3	GUA256	GUA258
	4	GUA256	GUA258
	5	GUA256	GUA171
	6	GUA259	GUA171
	4	GUA256	GUA157
	5	GUA256	GUA258
	6	GUA259	GUA258
	4	GUA256	GUA258
	5	GUA256	GUA171
	6	GUA259	GUA171
	10	GUA256	GUA157
	10	GUA256	GUA258
	4	GUA385	- X -
	5	GUA386	- X -
	6	GUA386	- X -
	18	GUA398	- X -

Os capítulos referentes a

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Encontram-se disponíveis no endereço eletrônico **www.alcoa.com.br/inova**

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