

Catálogo Técnico

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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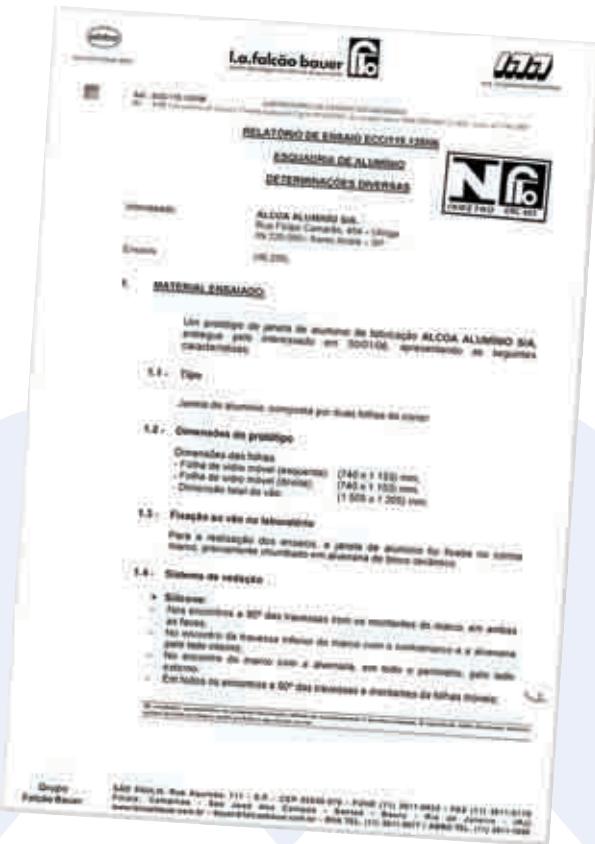
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Catálogo Técnico Linha Inova GMPE 027 SET 07



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Tipologia	Número do Certificado	Ensaios Realizados	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

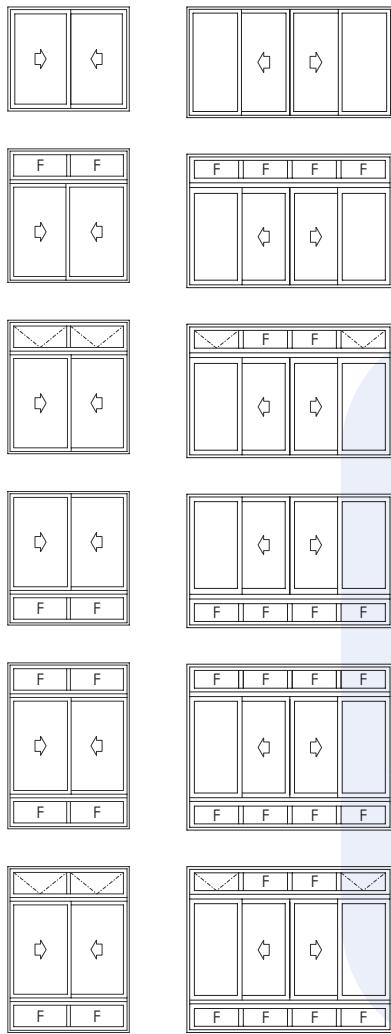
NBR6487 - Comportamento sob Cargas Uniformemente Distribuídas

NBR10821 - Verificação da Resistência às operações de manuseio

Os Relatórios de Ensaios completos encontram-se em
www.alcoa.com.br/inova e www.aluminioecia.com.br

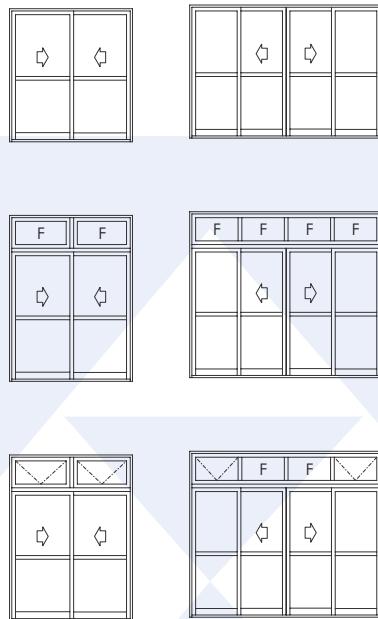
Janelas de Correr

2 Planos - 2 e 4 Folhas



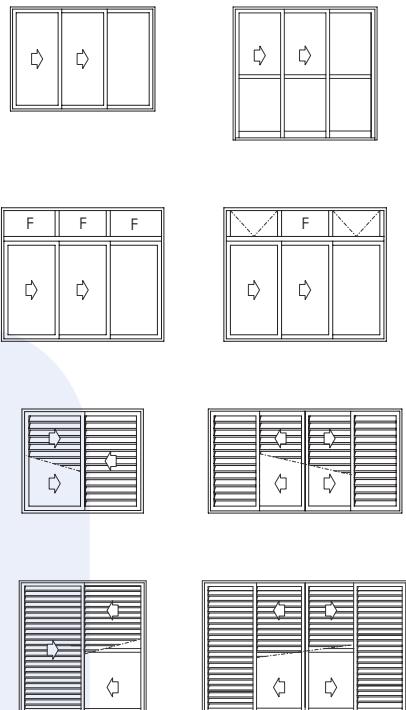
Portas de Correr

2 Planos - 2 e 4 Folhas



Janelas e Portas de Correr

3 Planos - 3 e 6 Folhas



Janela e Porta Integradas

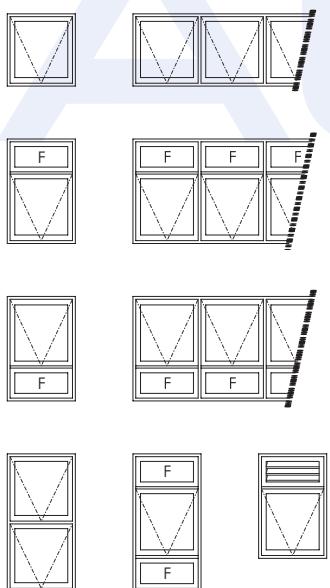


Quadros Fixos



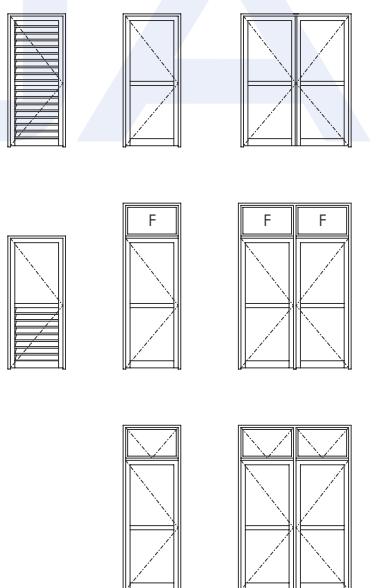
Janelas Maxim-ar

1 e Múltiplas Folhas



Portas de Giro

1 e 2 Folhas



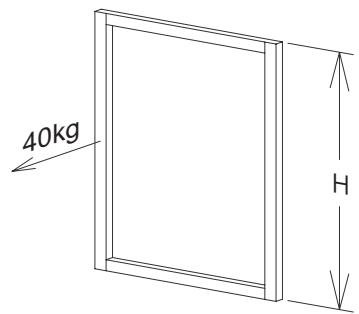
Portinholas de Giro

1 e 2 Folhas



Limites por esforço de uso**Folha de Correr - Janela**

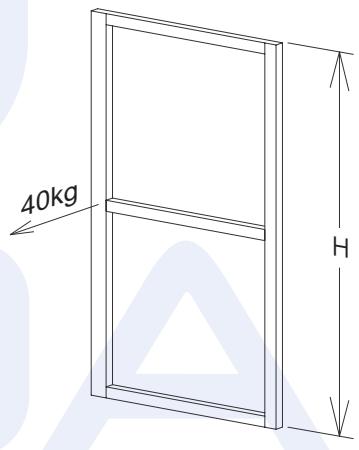
Liga 6060 T5



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



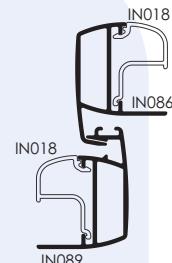
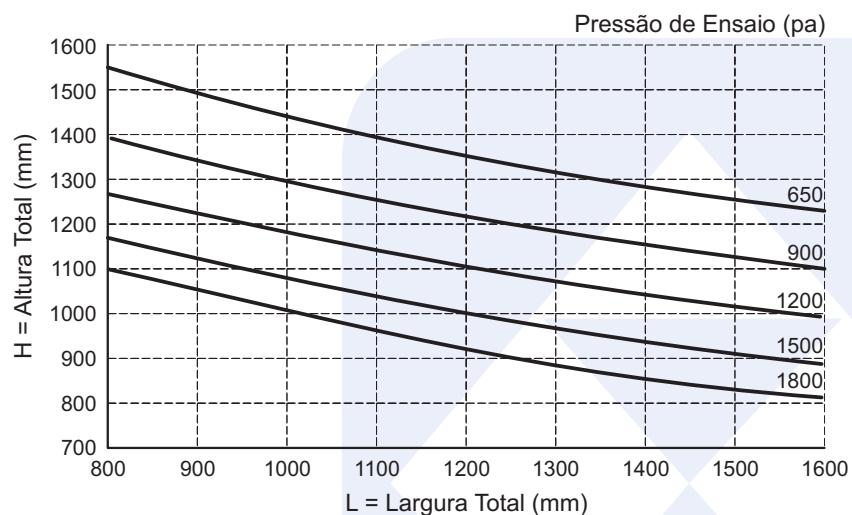
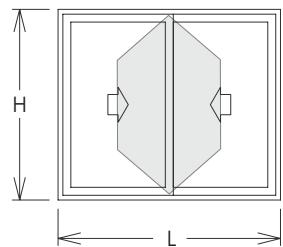
Perfil	IN006	IN011	IN079
Vidro	6mm	6mm	6mm
H máximo (Medida de folha)	2100	2300	2500

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

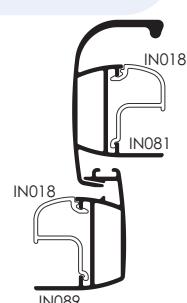
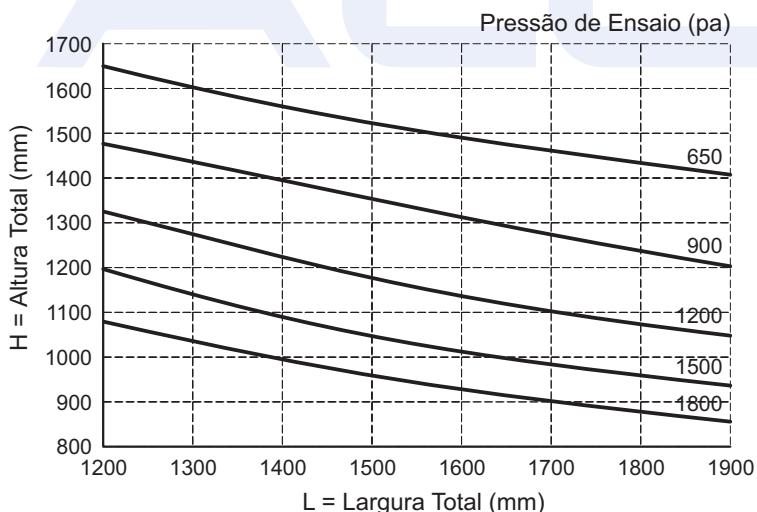
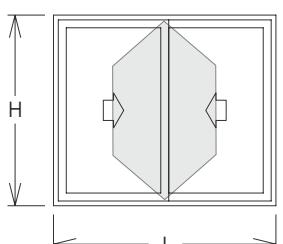
J total = 31631 mm⁴

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

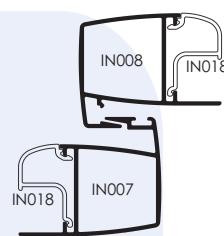
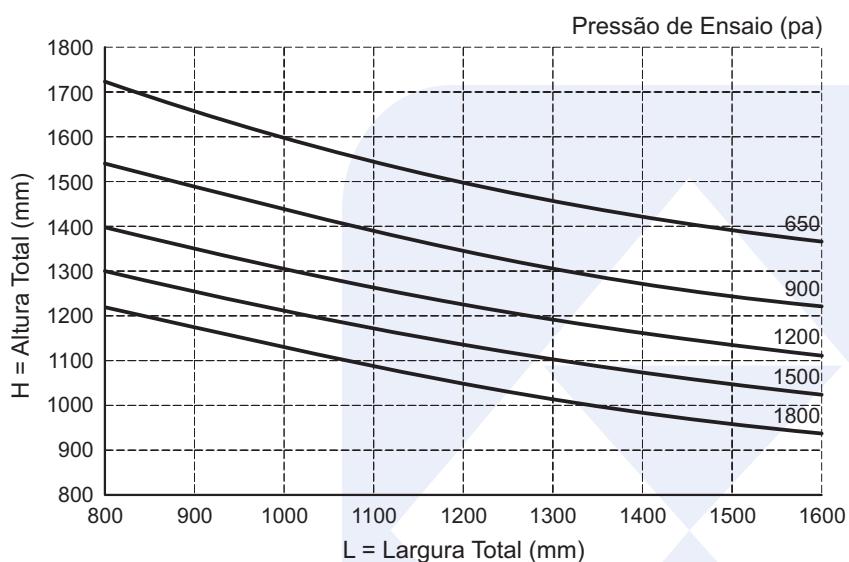
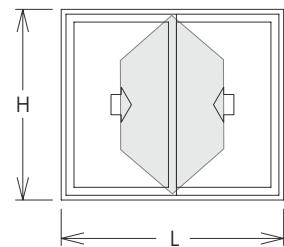
J total = 56322 mm⁴

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

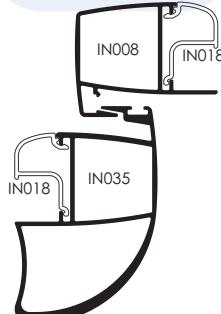
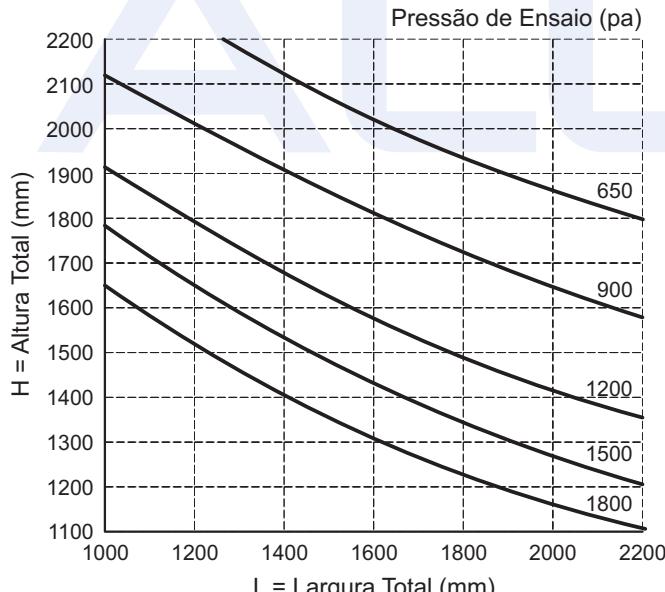
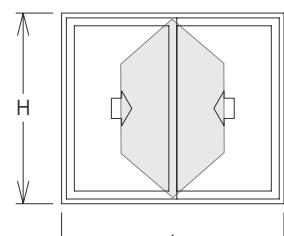
J total = 42271 mm⁴

Janela de Correr 2 folhas**Reforço externo**

Liga 6060 T5

Verificar limitação por esforço de uso.

Ver página 6

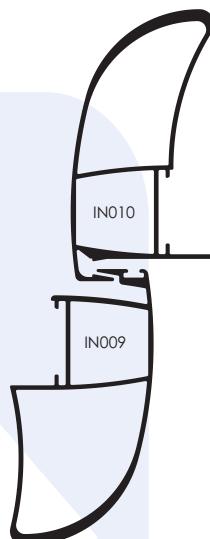
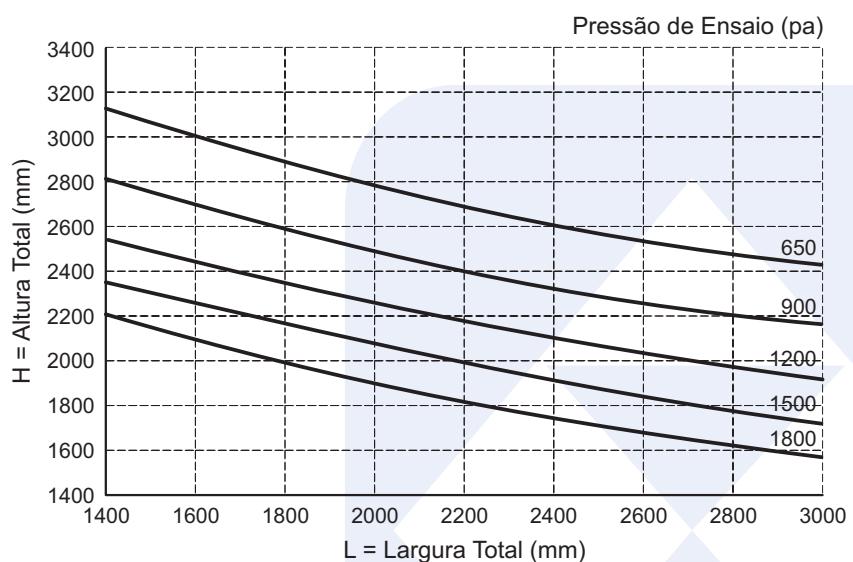
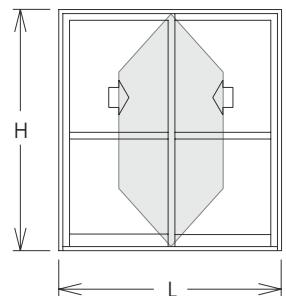


Área = 156 mm²
Jx = 16016 mm⁴
Wx = 1005 mm³

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



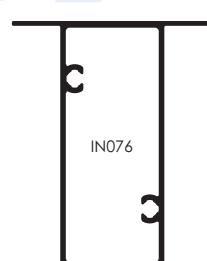
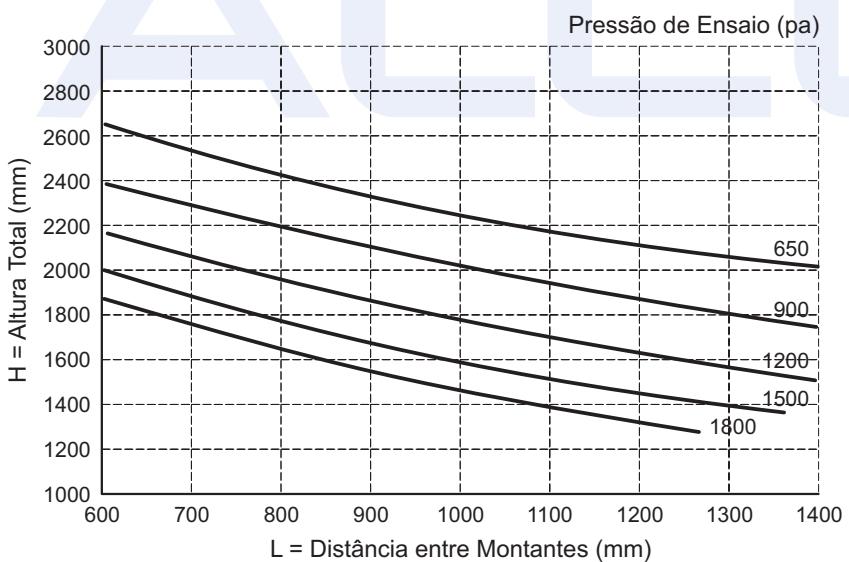
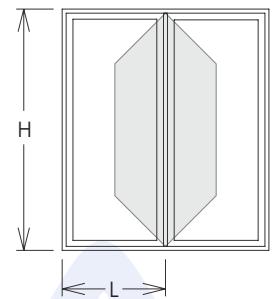
Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

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

J total = 449895 mm⁴

Junção de módulos
Marco 2 planos

Liga 6060 T5

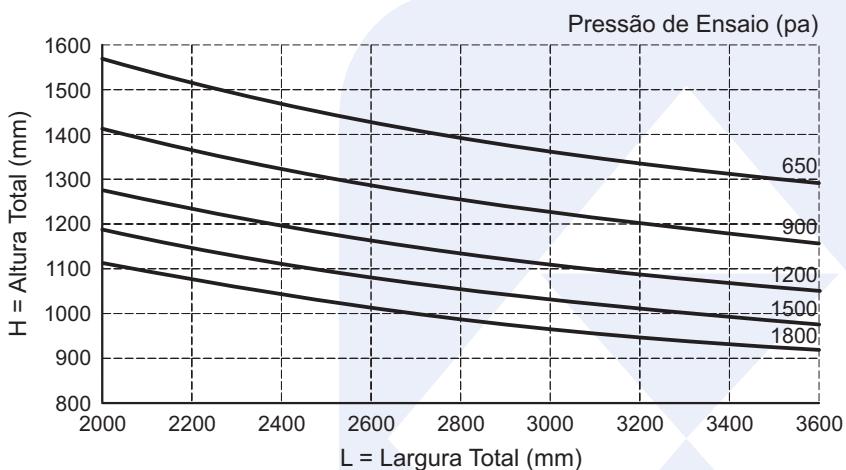
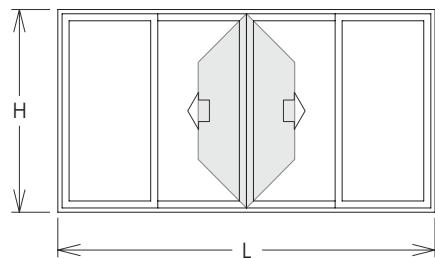


Área = 380 mm²
Jx = 237367 mm⁴
Wx = 6763 mm³

Janela de Correr 4 folhas

Liga 6060 T5

Verificar limitação por esforço de uso.
Ver página 6



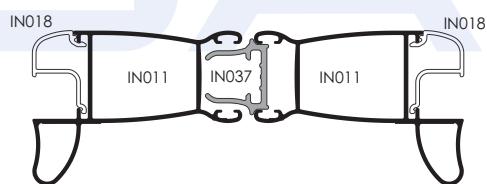
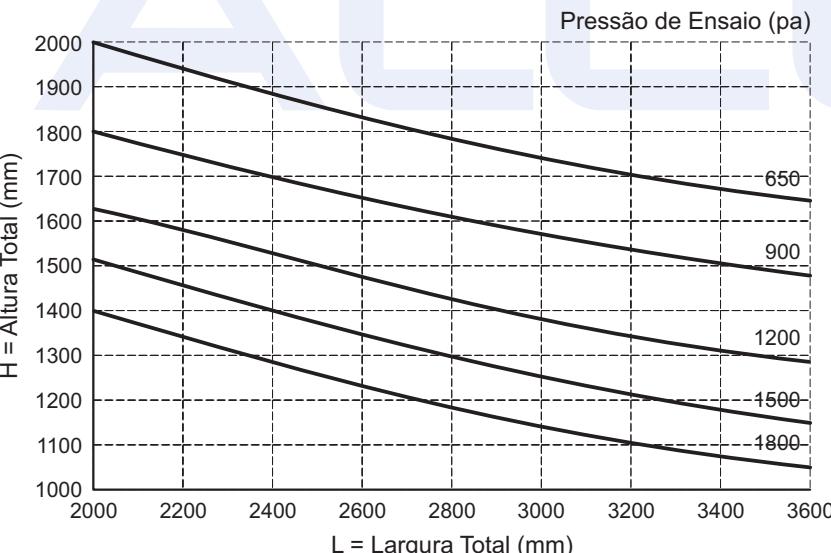
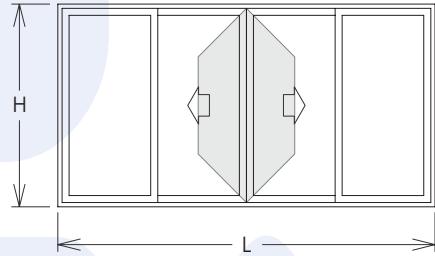
Área = 217 mm²
Jx = 18650 mm⁴
Wx = 1484 mm³

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

$$J \text{ total} = 40441 \text{ mm}^4$$

Janela de Correr 4 folhas**Reforço externo**

Liga 6060 T5



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

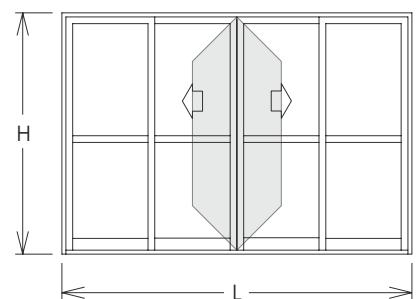
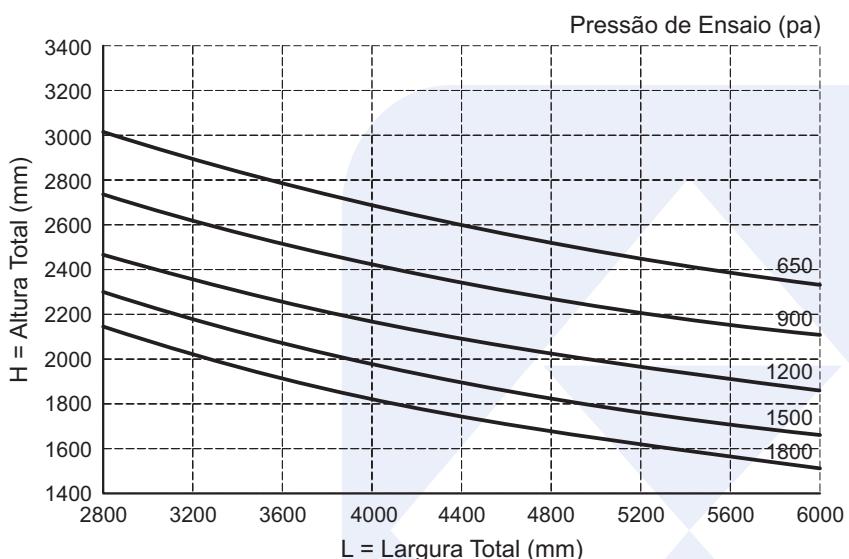
Área = 361 mm²
Jx = 44034 mm⁴
Wx = 1640 mm³

$$J \text{ total} = 84213 \text{ mm}^4$$

Porta de Correr 4 folhas

Reforço externo

Liga 6060 T5



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

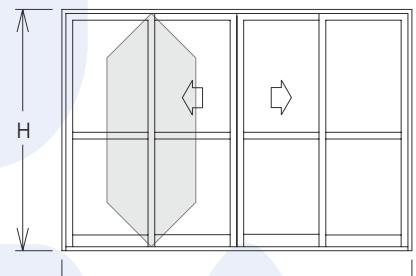
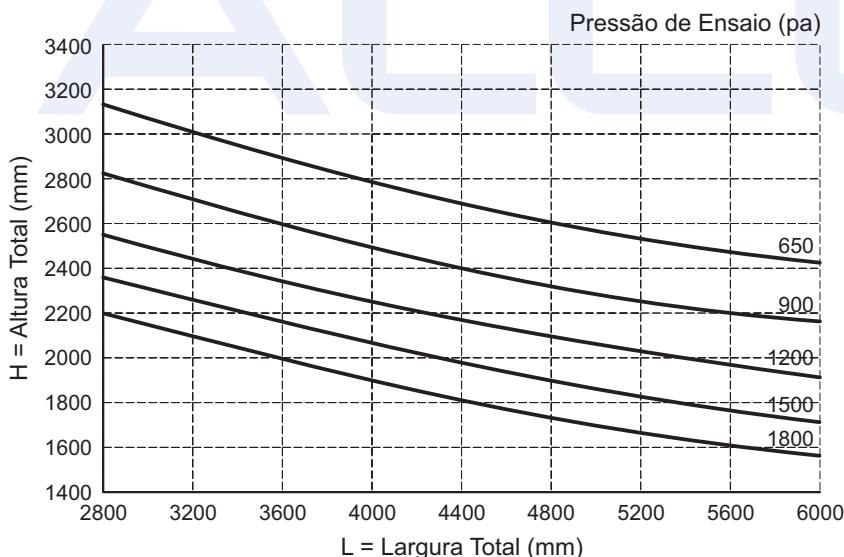
Área = 460 mm²
Jx = 220308 mm⁴
Wx = 5841 mm³

J total = 411655 mm⁴

Porta de Correr 4 folhas

Reforços externo e interno

Liga 6060 T5

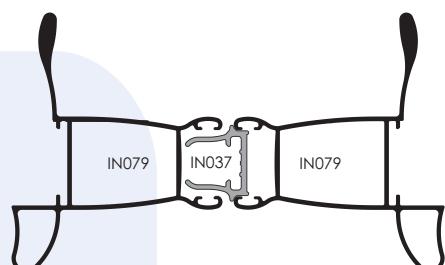
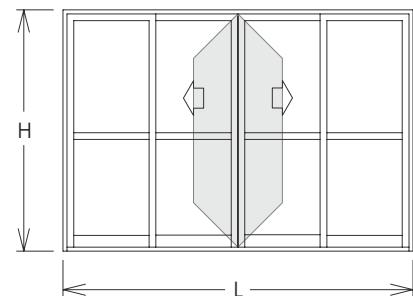
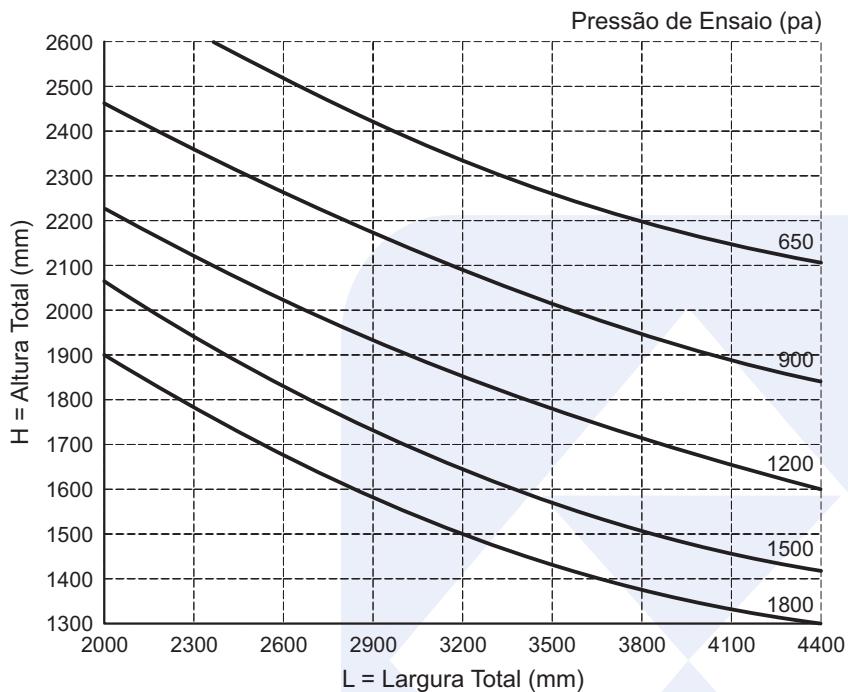


Área = 374 mm²
Jx = 226786 mm⁴
Wx = 6103 mm³

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

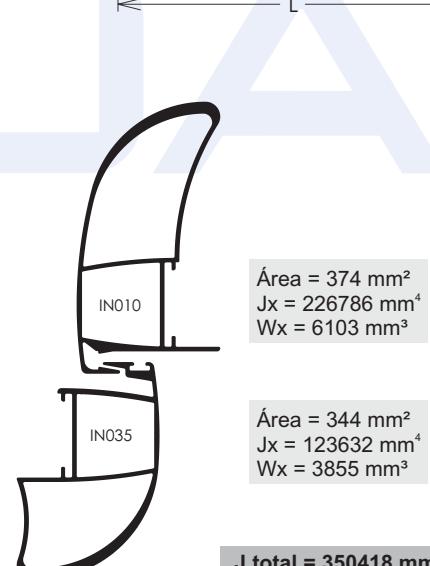
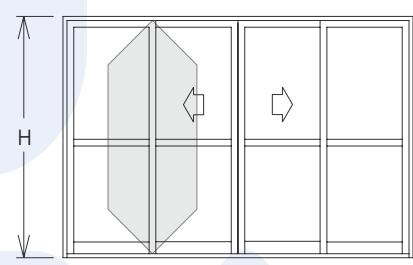
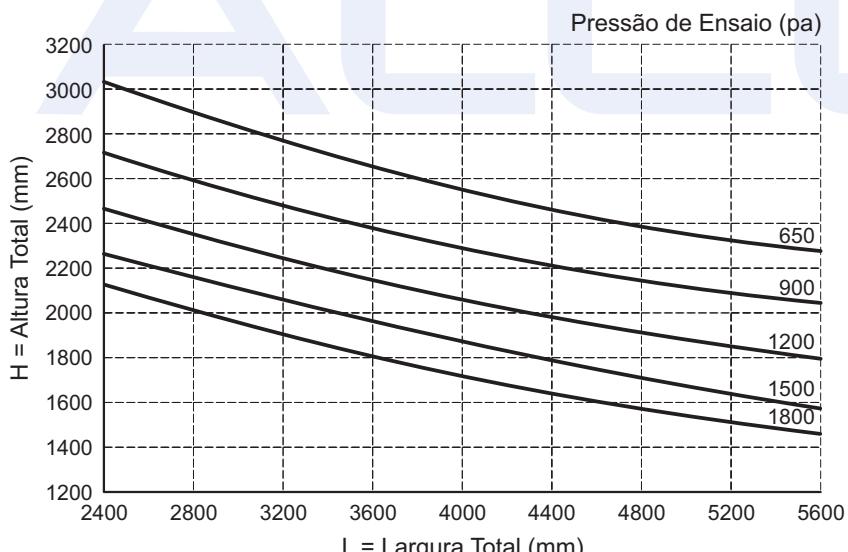
J total = 449895 mm⁴

Porta de Correr 4 folhas
Reforços externo e interno
Liga 6060 T5



J total = 216474 mm⁴

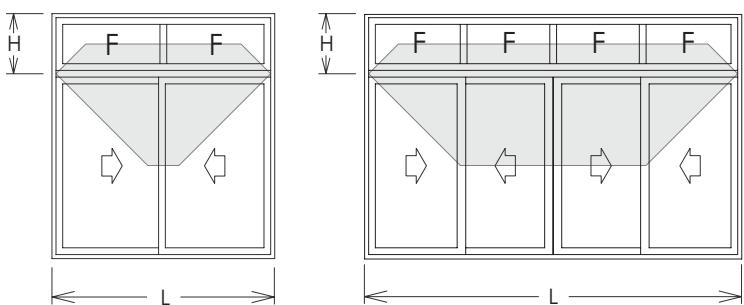
Porta de Correr 4 folhas
Reforços externo e interno
Liga 6060 T5



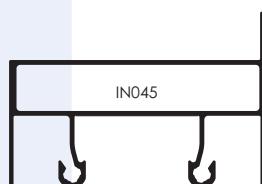
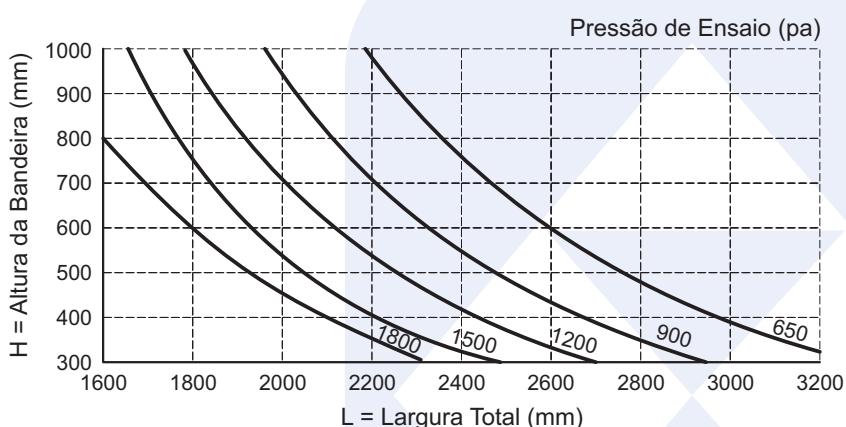
Travessa da bandeira

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.

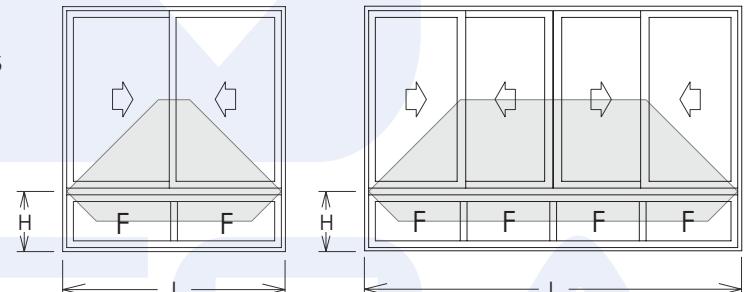


Área = 377 mm²
Jy = 221700 mm⁴
Wy = 6250 mm³

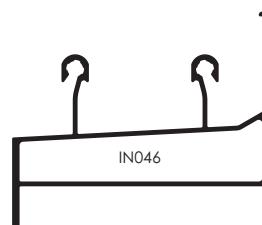
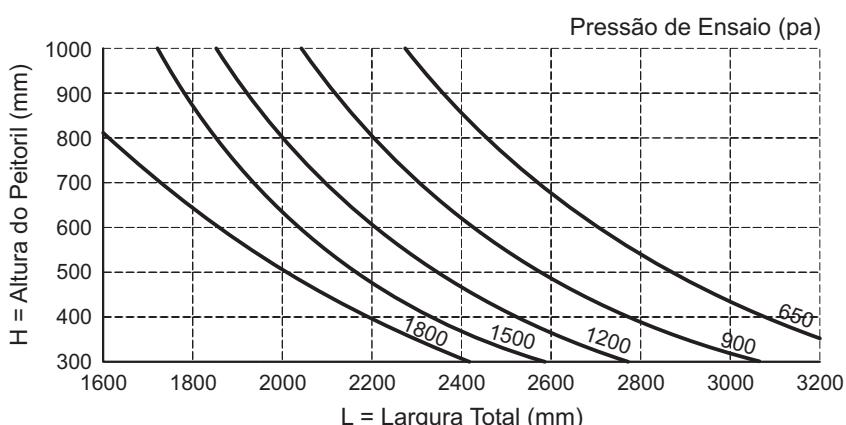
Travessa do peitoril

Porta e Janela de Correr 2 e 4 folhas

Liga 6060 T5



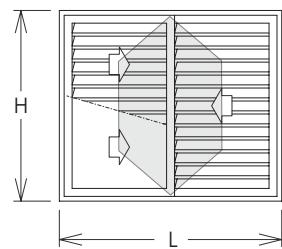
Nota: Após verificação das curvas de pressão de ensaio (abaixo), para larguras superiores a 1600mm, utilizar o perfil IN054, para evitar a deformação da travessa do peitoril e prejudicar o funcionamento das folhas de correr.



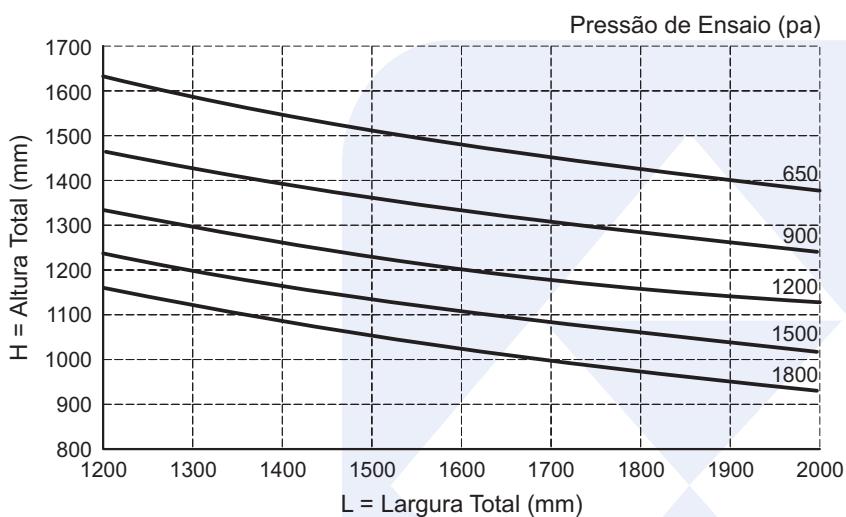
Área = 401 mm²
Jy = 249479 mm⁴
Wy = 6681 mm³

Janela de Correr 3 folhas veneziana**Slim**

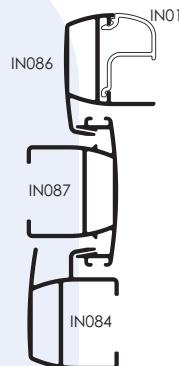
Liga 6060 T5



Verificar limitação por esforço de uso.
Ver página 6



$$J_{\text{total}} = 55644 \text{ mm}^4$$



Área = 166 mm²
 $J_x = 14915 \text{ mm}^4$
 $W_x = 788 \text{ mm}^3$

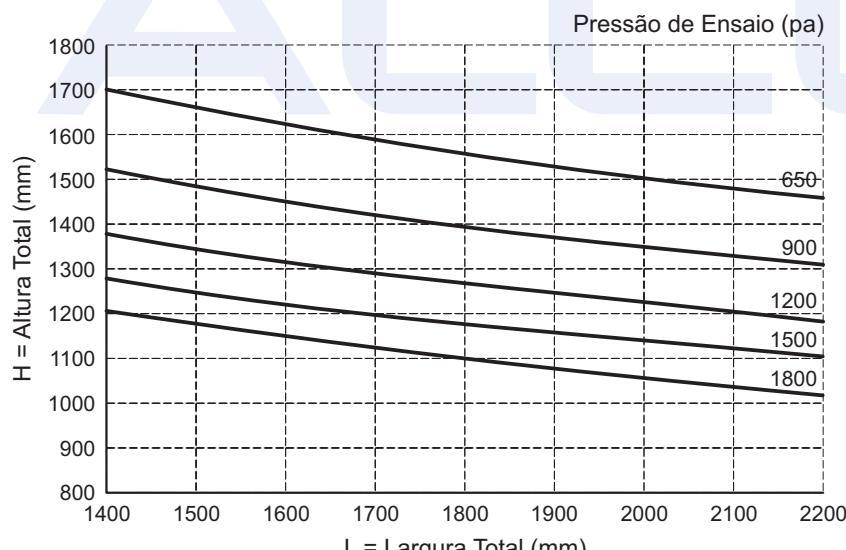
Área = 170 mm²
 $J_x = 25017 \text{ mm}^4$
 $W_x = 1238 \text{ mm}^3$

Área = 141 mm²
 $J_x = 15712 \text{ mm}^4$
 $W_x = 909 \text{ mm}^3$

Janela de Correr 3 folhas veneziana

Liga 6060 T5

Verificar limitação por esforço de uso.
Ver página 6



$$IN018$$



Área = 206 mm²
 $J_x = 20066 \text{ mm}^4$
 $W_x = 1193 \text{ mm}^3$



Área = 210 mm²
 $J_x = 32505 \text{ mm}^4$
 $W_x = 1633 \text{ mm}^3$

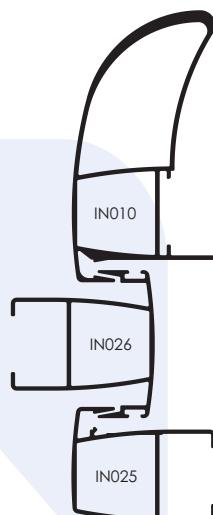
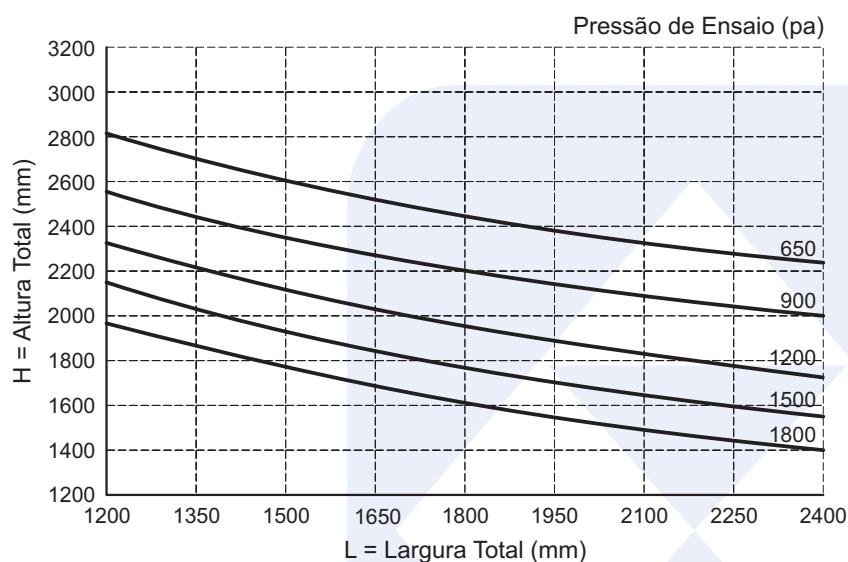


Área = 171 mm²
 $J_x = 18981 \text{ mm}^4$
 $W_x = 1167 \text{ mm}^3$

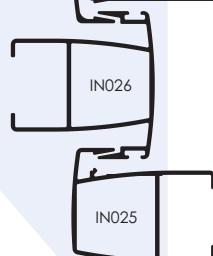
$$J_{\text{total}} = 71549 \text{ mm}^4$$

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

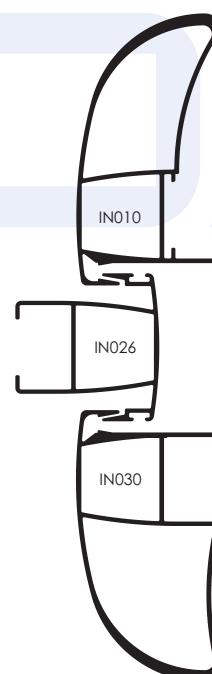
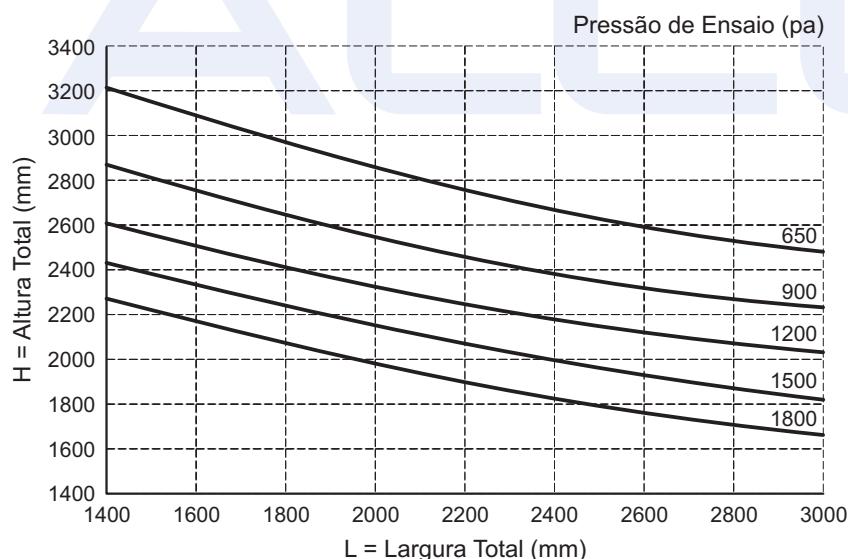


Área = 177 mm²
Jx = 21316 mm⁴
Wx = 1264 mm³

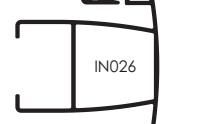
J total = 280604 mm⁴

Porta de Correr 3 folhas veneziana Reforços interno e externo

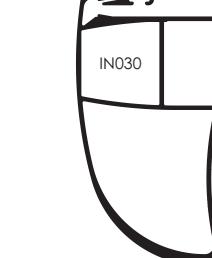
Liga 6060 T5



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



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

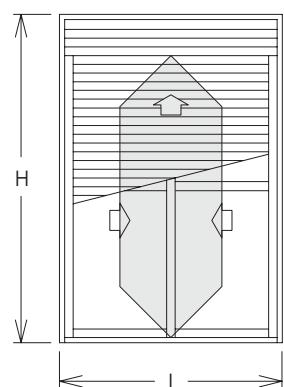
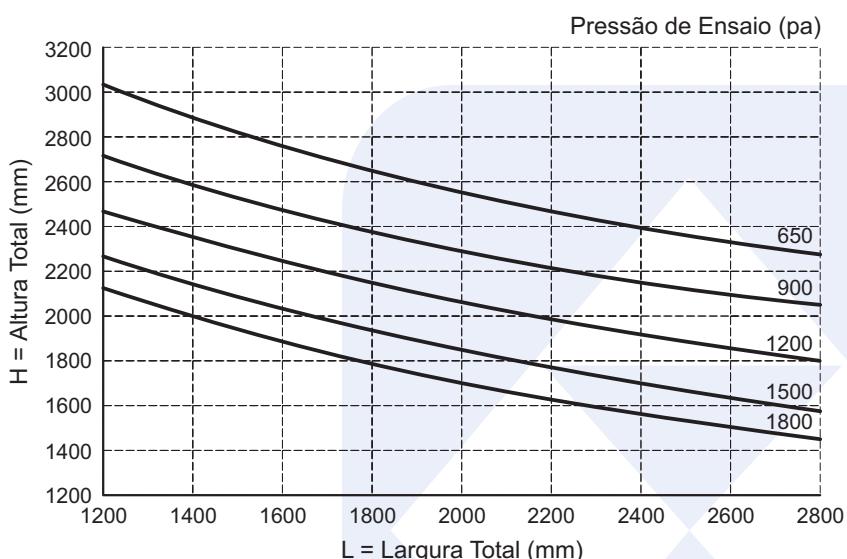


Área = 386 mm²
Jx = 225383 mm⁴
Wx = 6158 mm³

J total = 484671 mm⁴

**Porta de Correr 2 folhas, com persiana
Reforços externo e interno**

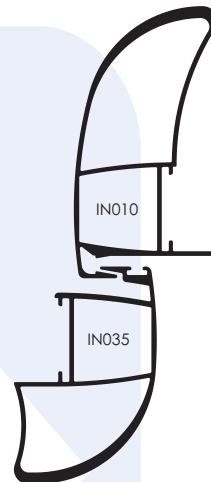
Liga 6060 T5



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

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

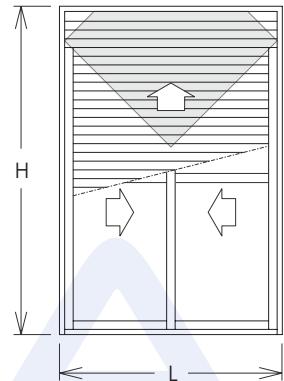
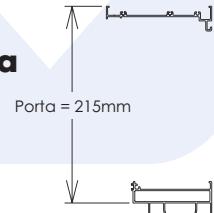
J total = 350418 mm⁴



Travessa da Caixa

Porta e Janela de Correr 2 folhas, com persiana

Liga 6060 T5

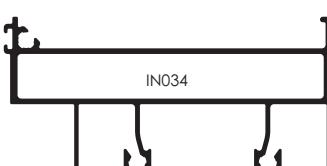
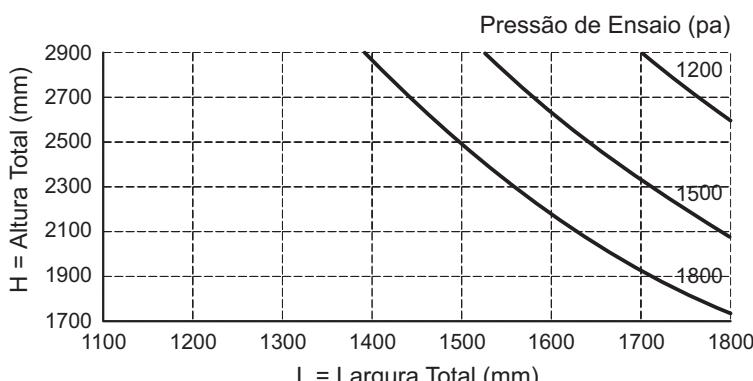


Notas:

Largura máxima de 1800mm, limitada pela persiana.

Altura mínima de 1700mm.

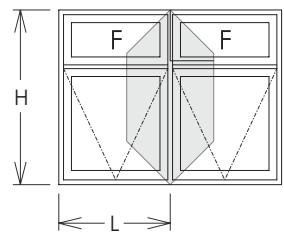
Altura máxima da porta, limitada pelo diâmetro do rolo que a caixa comporta.
Ver limites nas montagens.



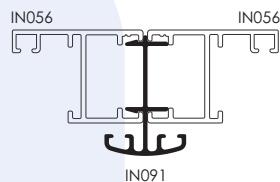
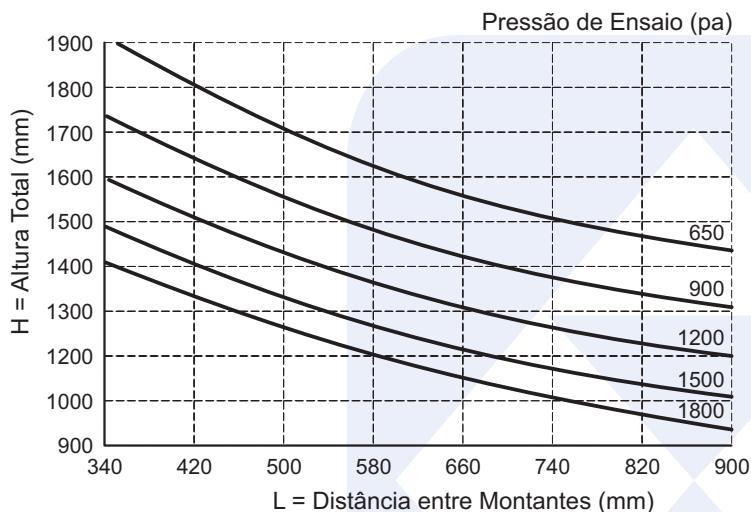
Área = 488 mm²
Jx = 413302 mm⁴
Wx = 8985 mm³

Junção de módulos - Montagem A**Janela Maxim ar**

Liga 6060 T5



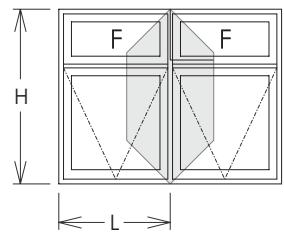
Dimensão máxima da folha = 900mm x 900mm,
limitada pela resistência dos perfis de folha



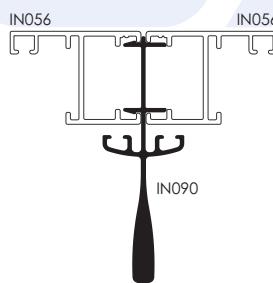
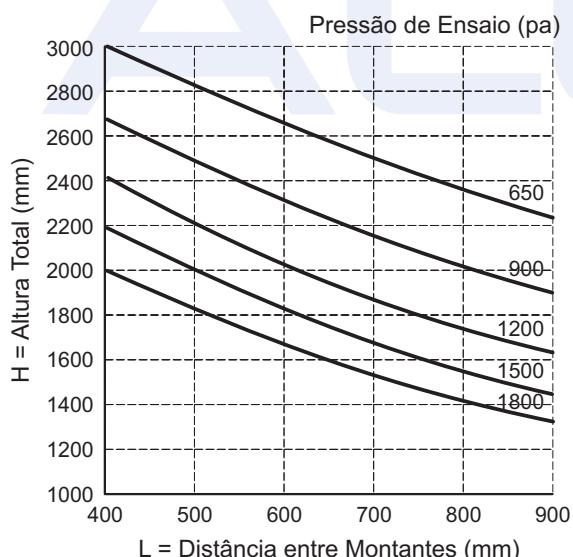
Área = 369 mm²
Jx = 50118 mm⁴
Wx = 2489 mm³

Junção de módulos, com reforço externo**Janela Maxim ar**

Liga 6060 T5

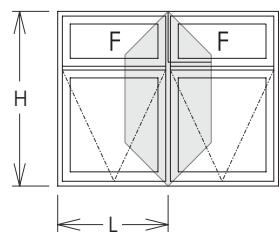


Dimensão máxima da folha = 900mm x 900mm,
limitada pela resistência dos perfis de folha

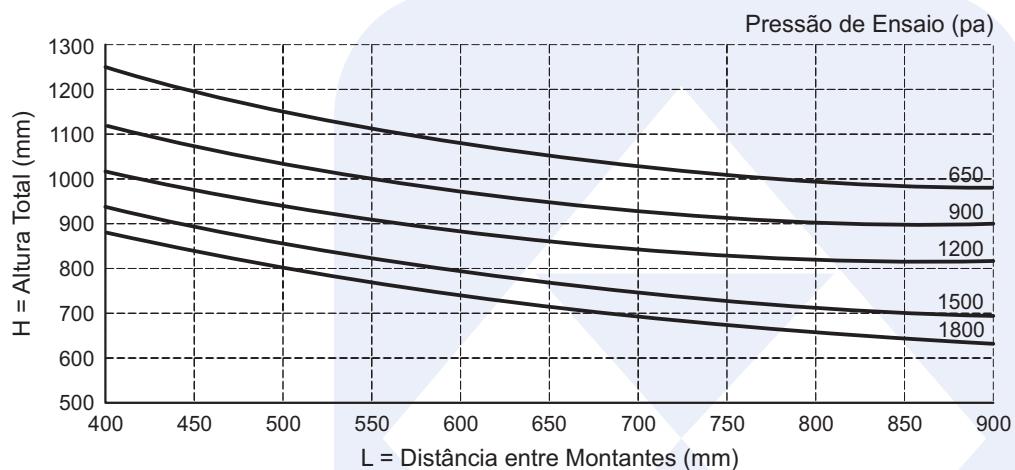


Área = 494 mm²
Jx = 224720 mm⁴
Wx = 5146 mm³

**Montante central
Janela Maxim ar**
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

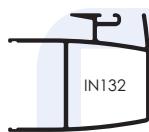
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

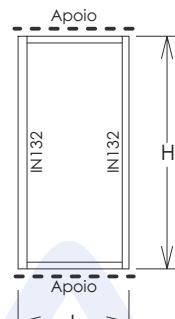
Flecha admissível = H/225



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



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



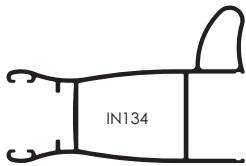
Pressão de ensaio (Pa)	Medida de folha (L x H)				
	1000 x 1500	1000 x 1700	1250 x 1500	1250 x 1700	1400 x 1400
2000					
1500					
1200					
1000					
750					
550					

Folha de Correr com Vidro duplo 18mm

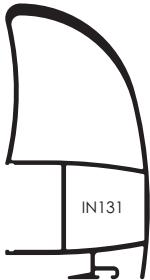
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

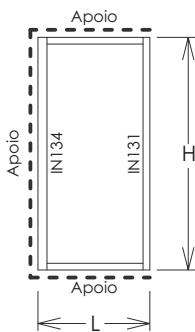
Flecha admissível = H/225



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



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



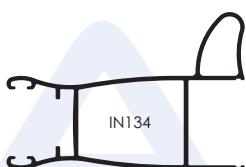
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

Folha de Correr com Vidro duplo 18mm

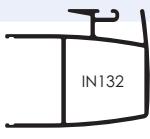
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

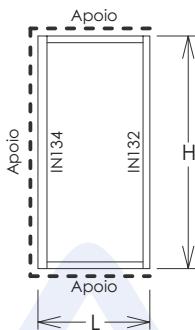
Flecha admissível = H/225



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



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



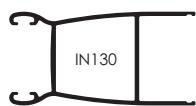
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

Folha de Correr com Vidro duplo 18mm

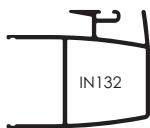
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

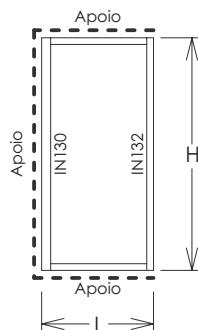
Flecha admissível = H/225



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



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



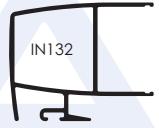
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

Folha de Correr com Vidro duplo 18mm

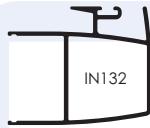
(6mm externo / 4mm interno / câmara de 8mm)

Liga 6060 T5

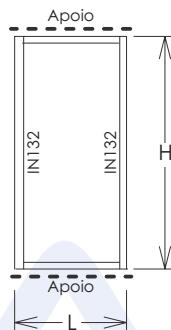
Flecha admissível = H/225



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



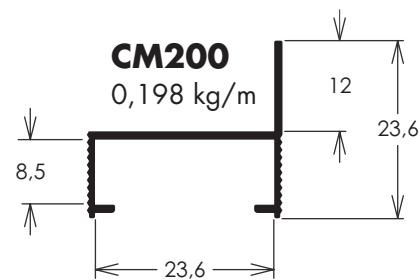
Área = 174,6 mm²
Jx = 20826 mm⁴
Wx = 1293 mm³



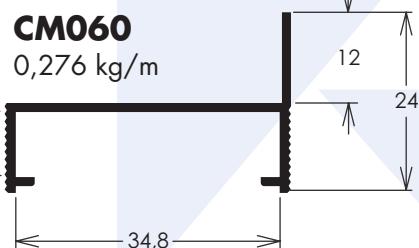
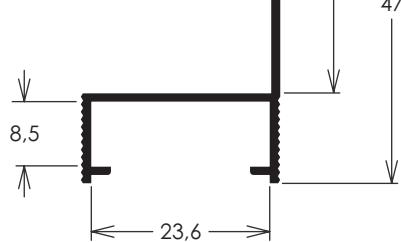
Pressão de ensaio (Pa)	Medida de folha (L x H)					
	1000 x 2200	1000 x 2500	1250 x 2200	1250 x 2500	1500 x 2200	1500 x 2500
2000						
1500						
1200						
1000						
750						
550						

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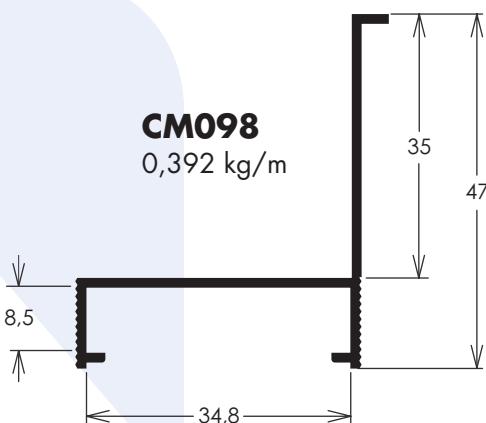
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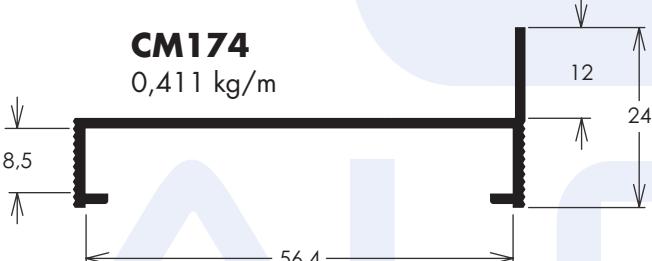
CM151
0,309 kg/m



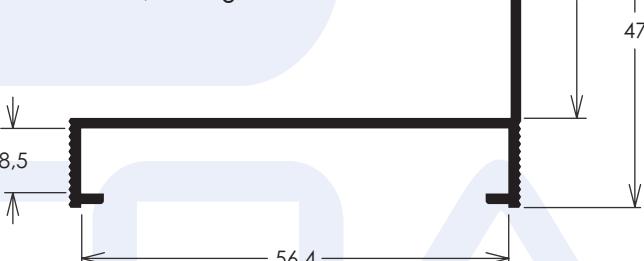
CM098
0,392 kg/m



CM174
0,411 kg/m



CM173
0,509 kg/m

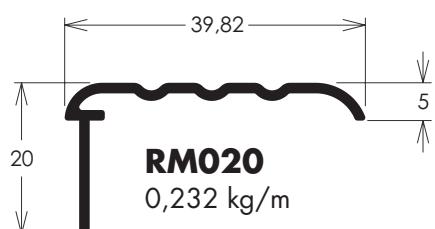
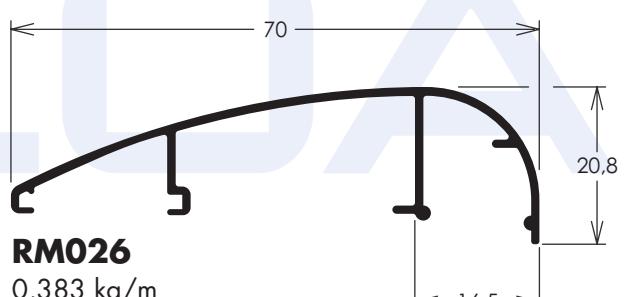
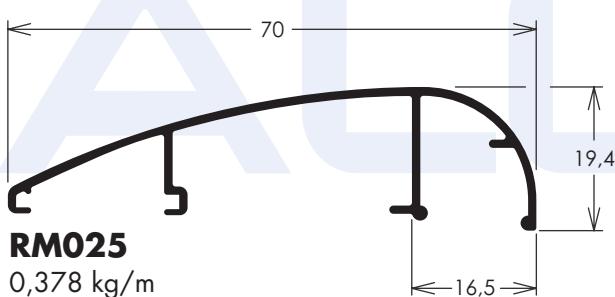
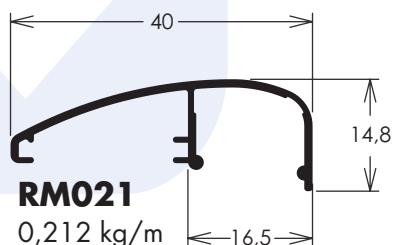
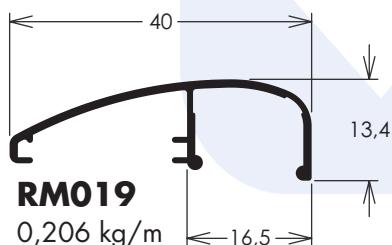
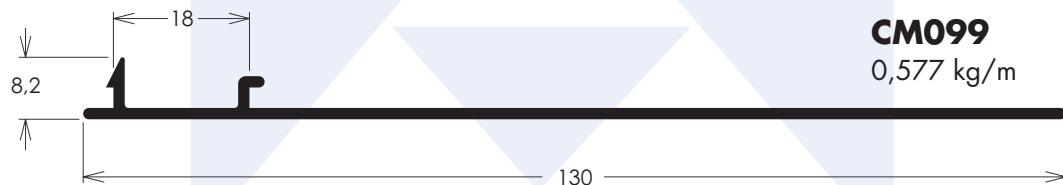
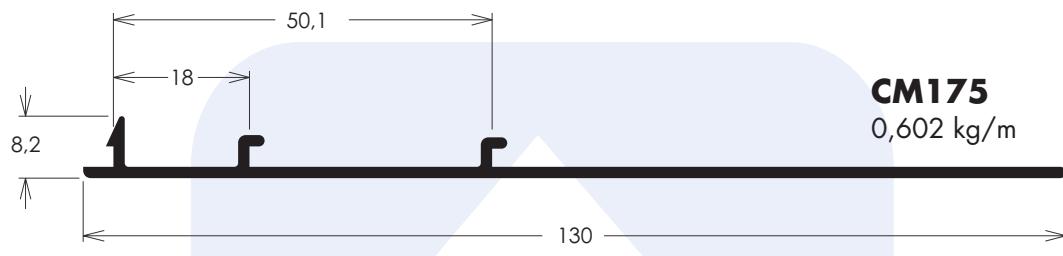
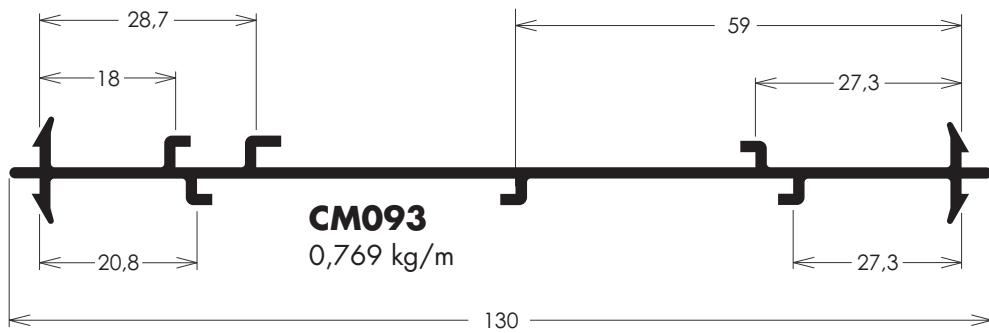


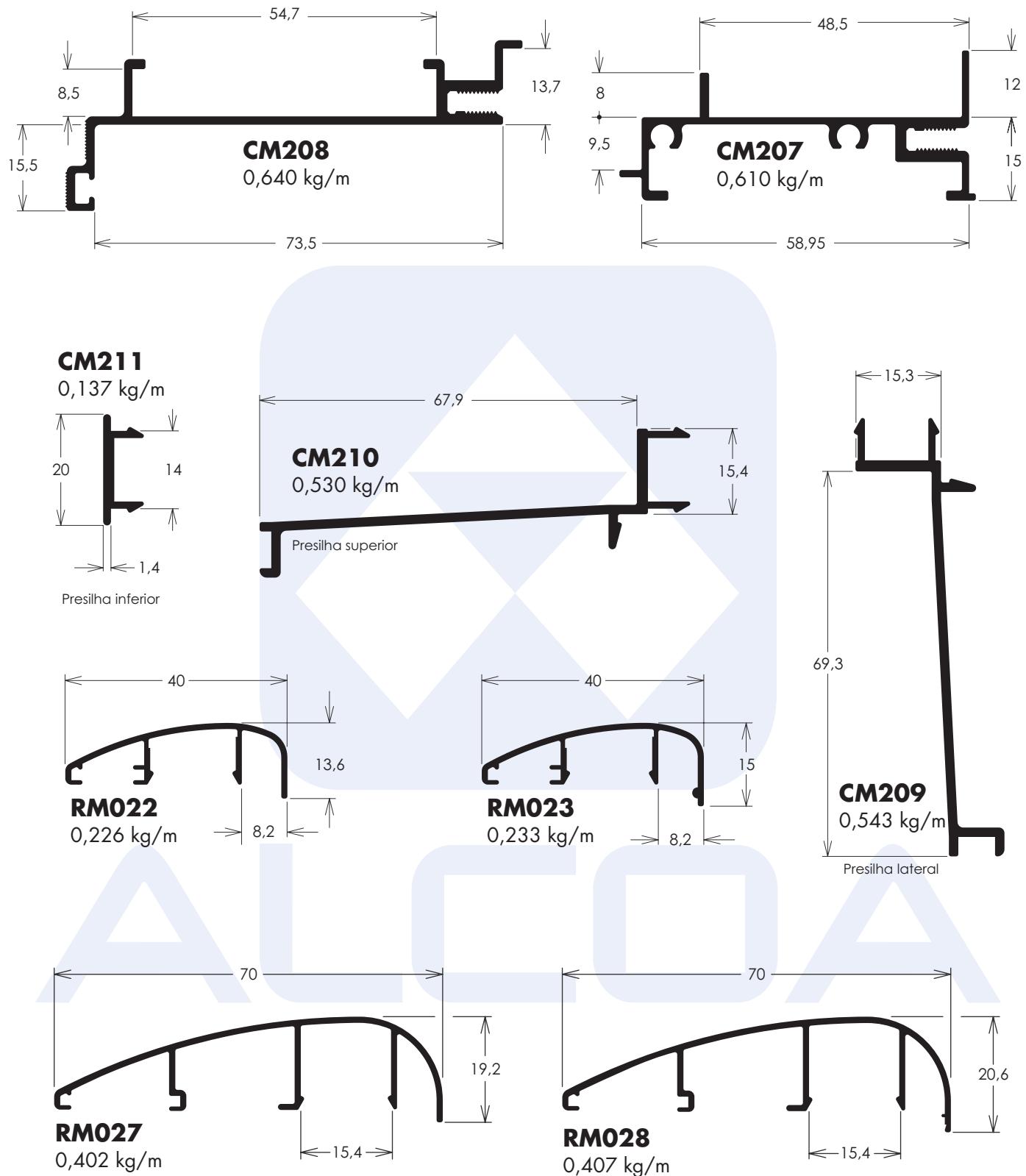
CL006
1,112 kg/m

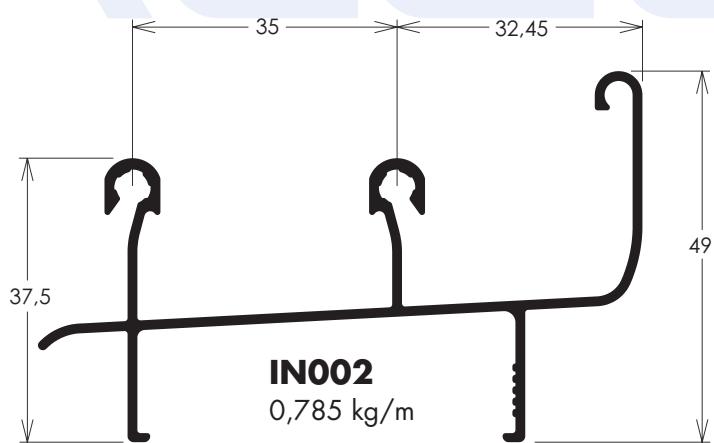
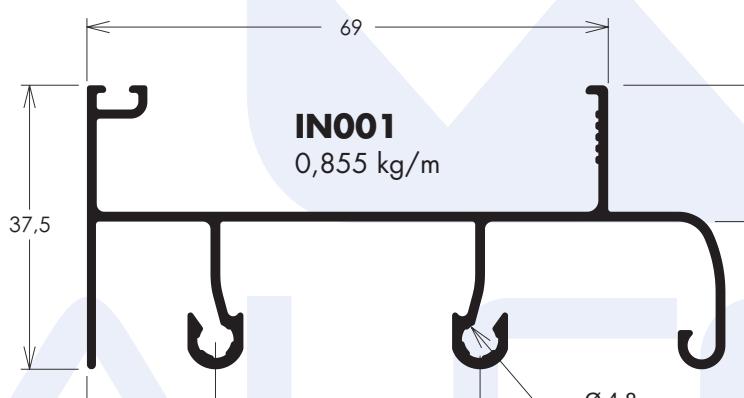
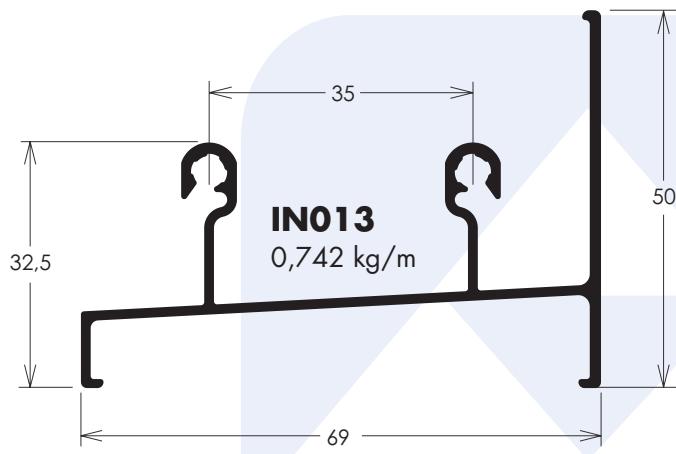
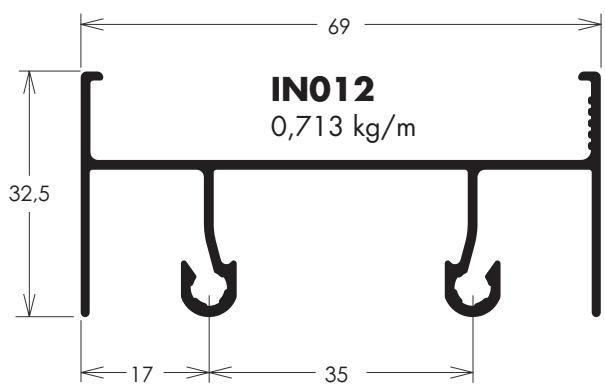


CL011
0,319 kg/m

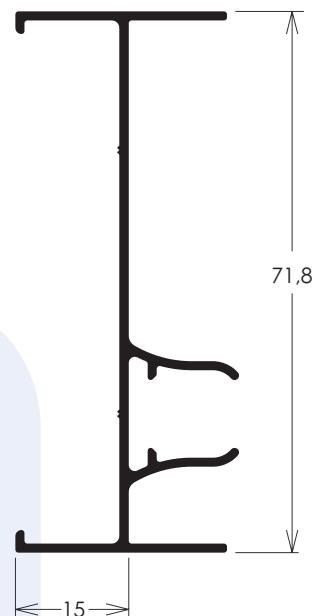








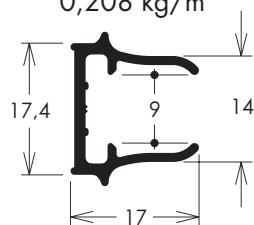
IN003
0,546 kg/m

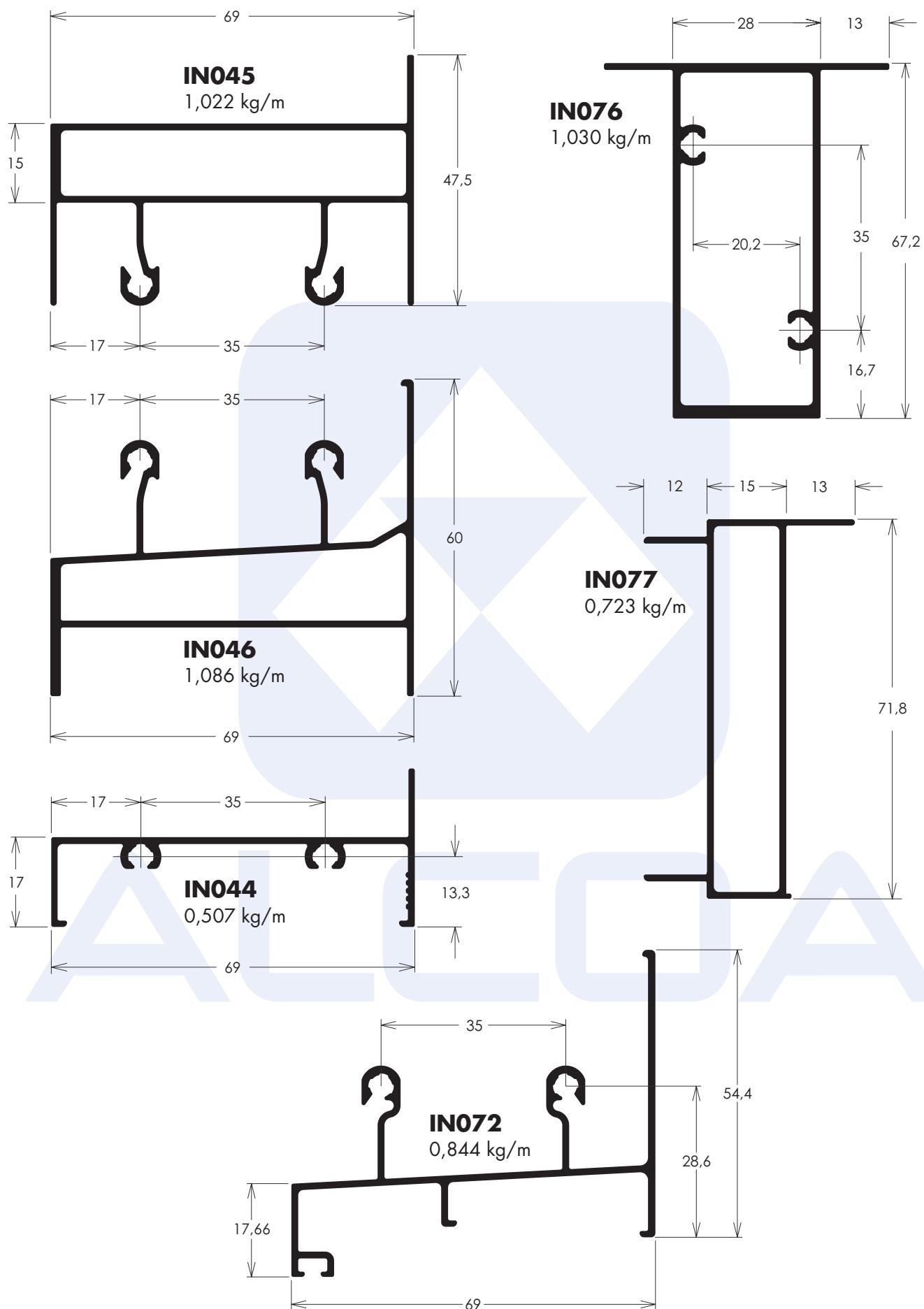


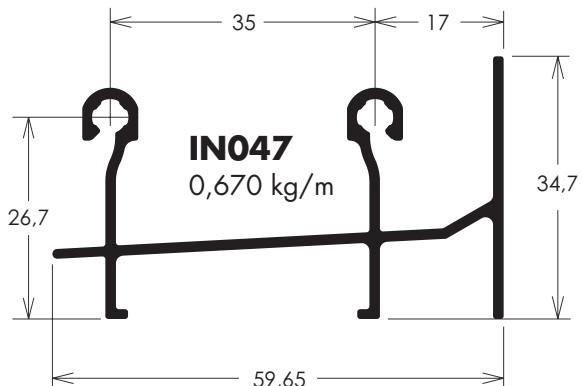
IN043
0,408 kg/m



IN037
0,208 kg/m

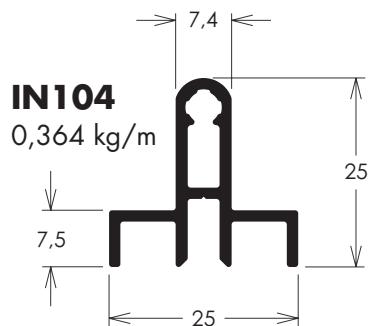




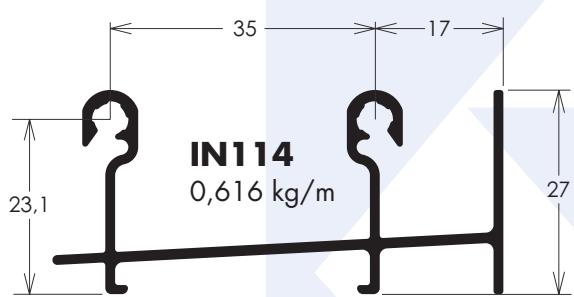


Empregar este trilho somente para regiões I e II.

OBS.: Ver Instrução de Montagem

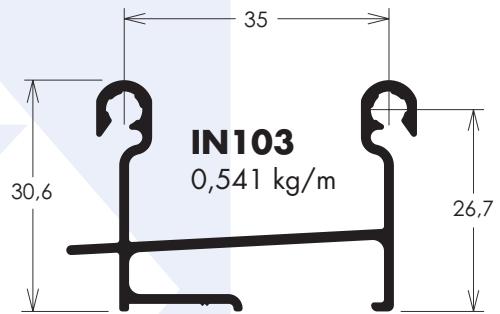


OBS.: Ver Instrução de Montagem

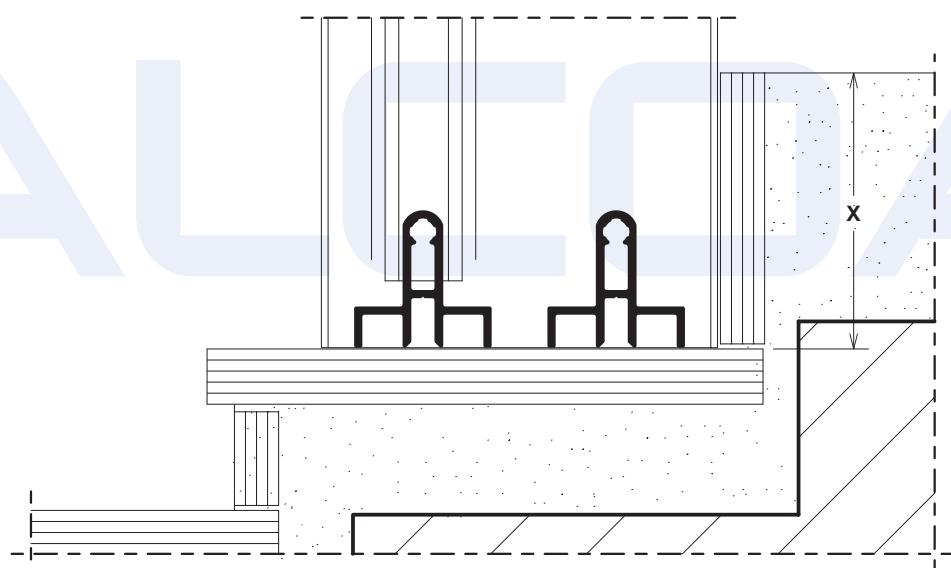


Empregar este trilho somente para regiões I e II.

OBS.: Ver Instrução de Montagem

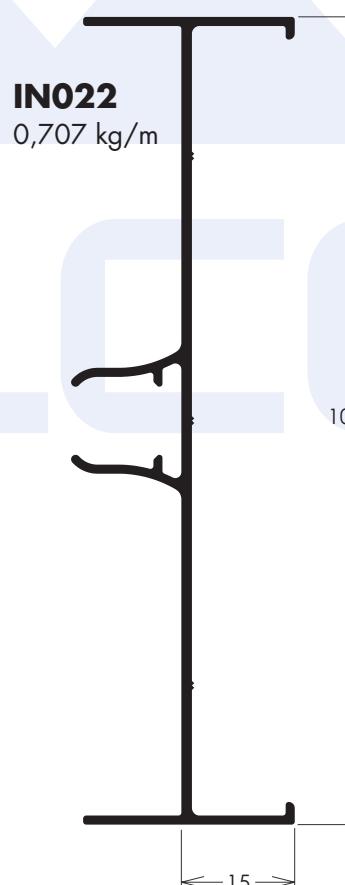
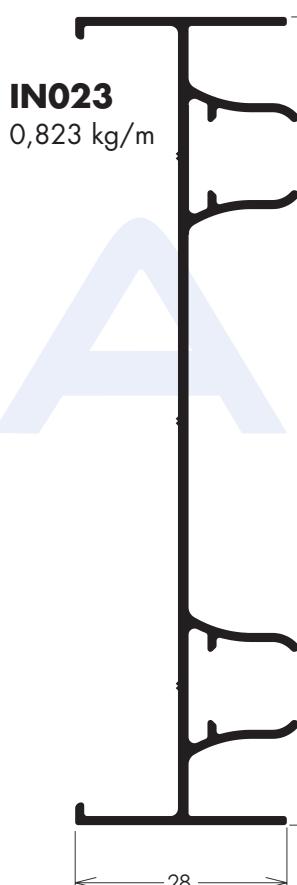
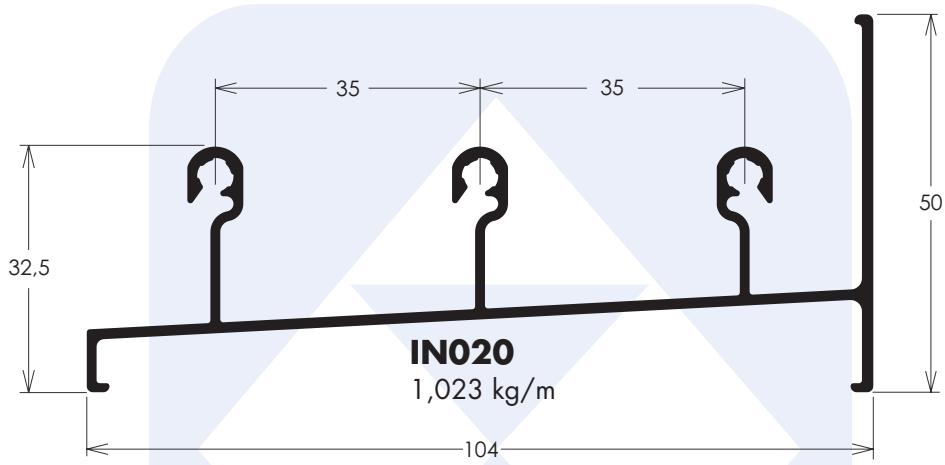
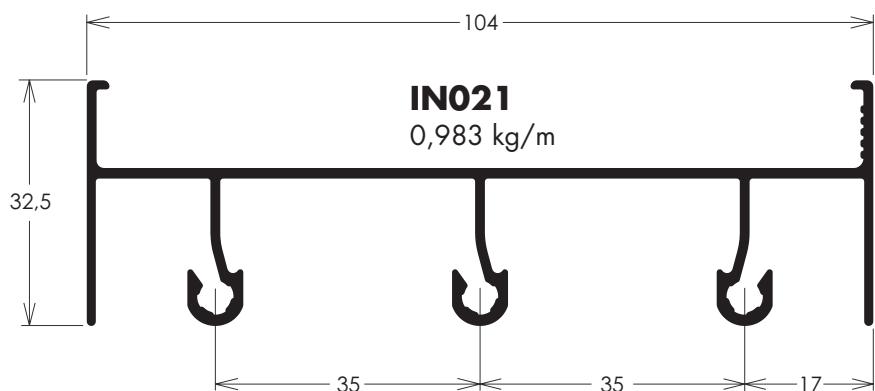


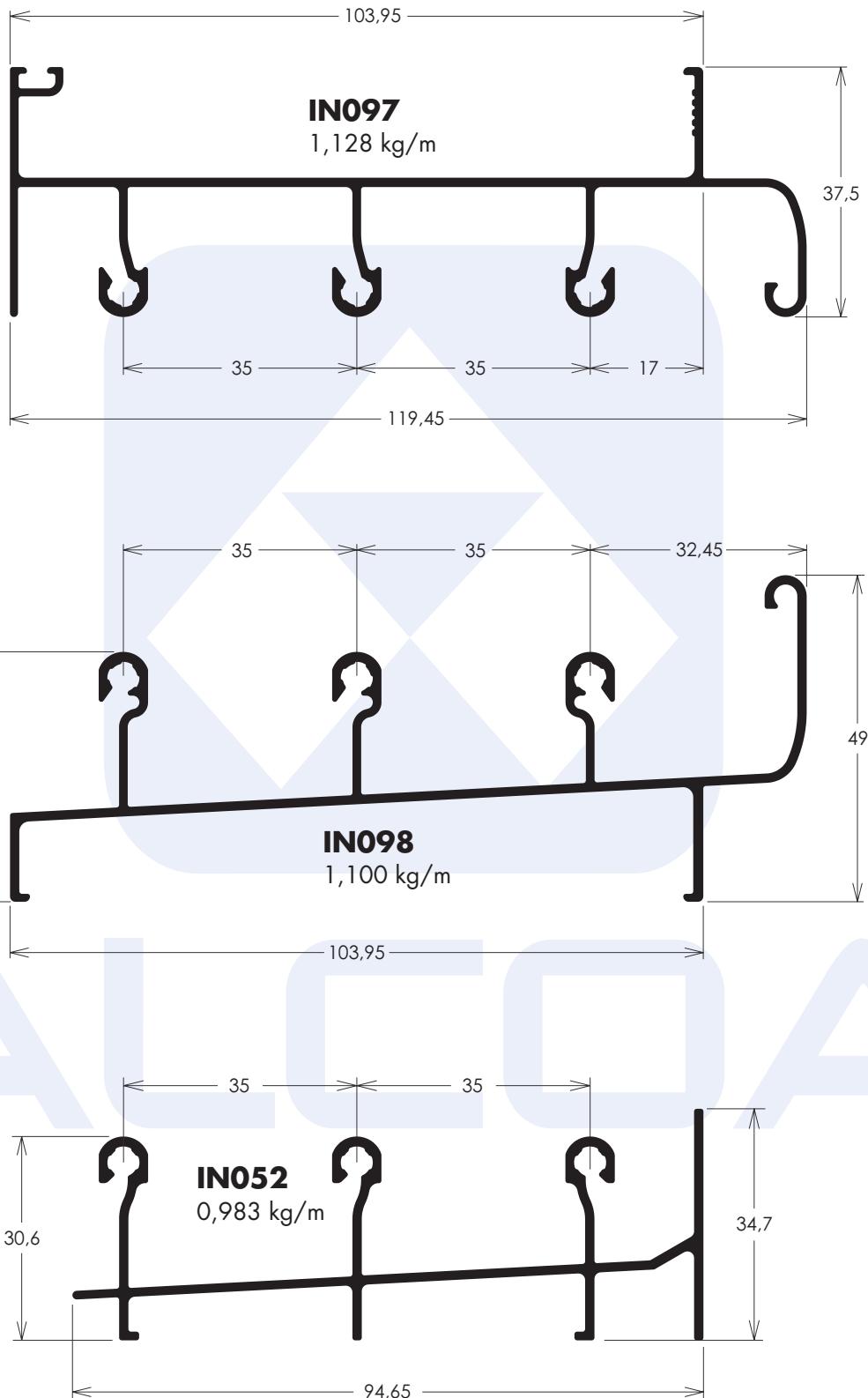
Situação de vedação melhorada ou reforçada



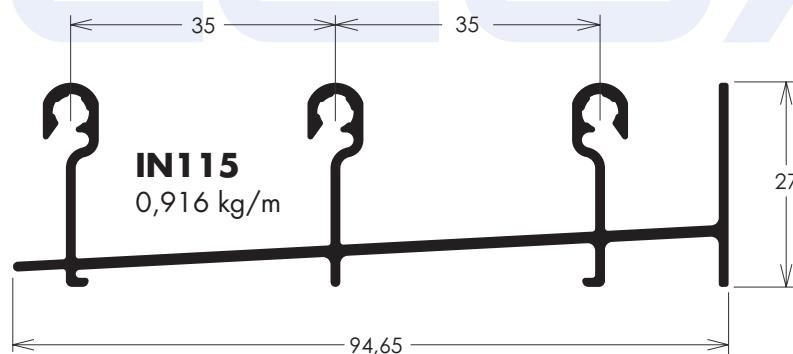
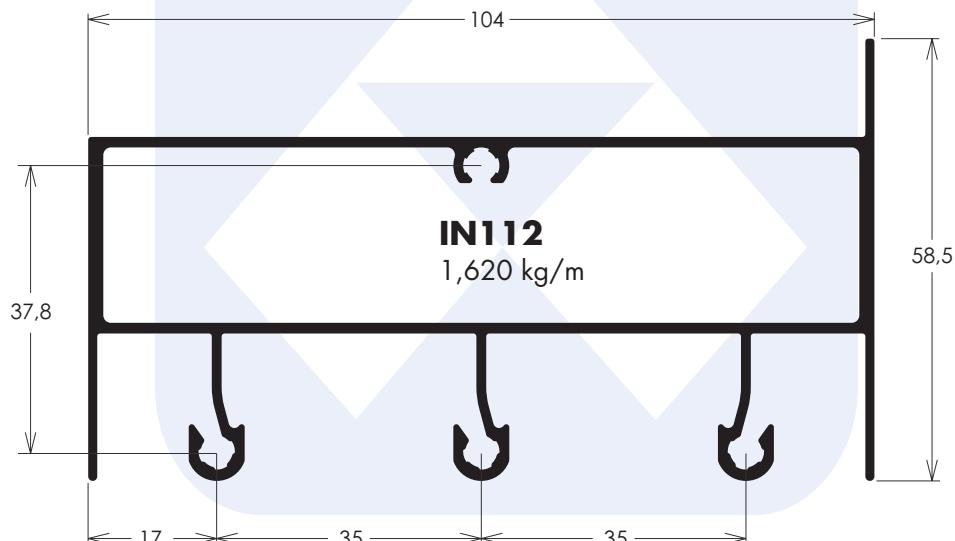
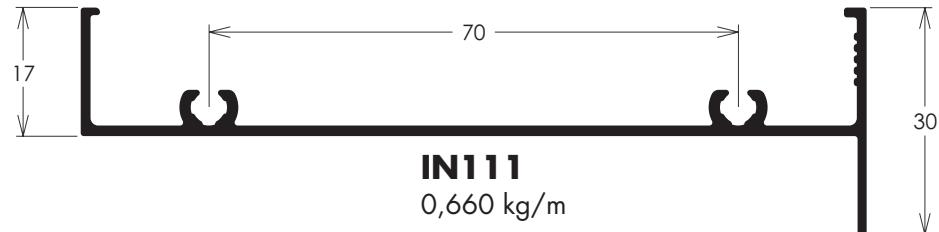
$$X = 15 + (0,15 \times Pe)$$

onde Pe = Pressão de ensaio



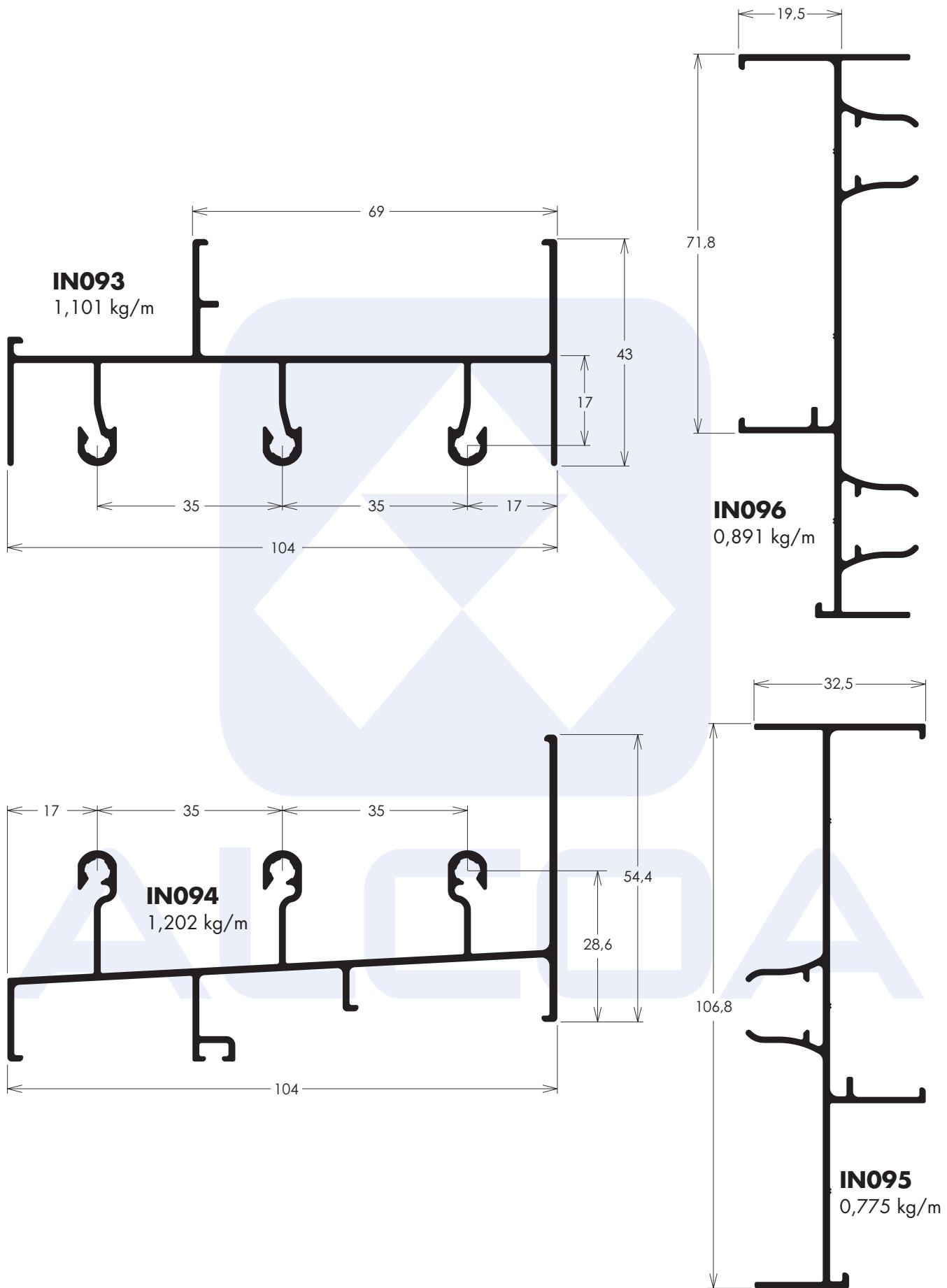


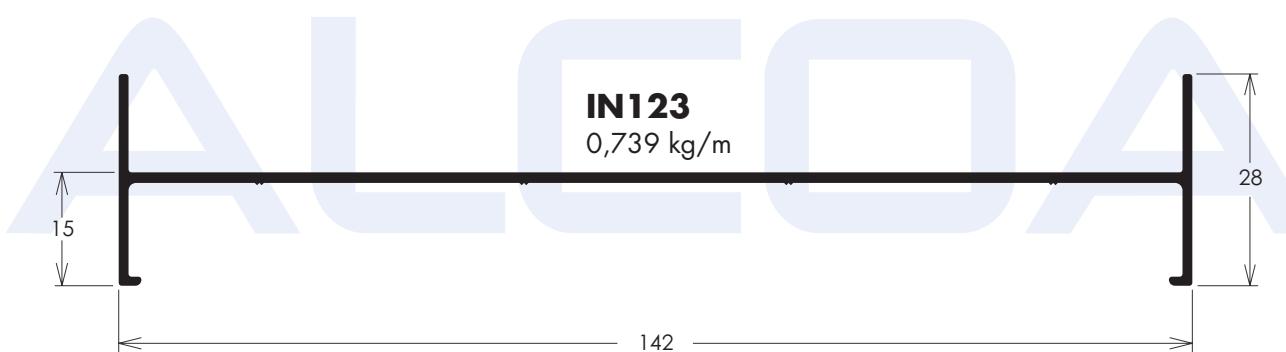
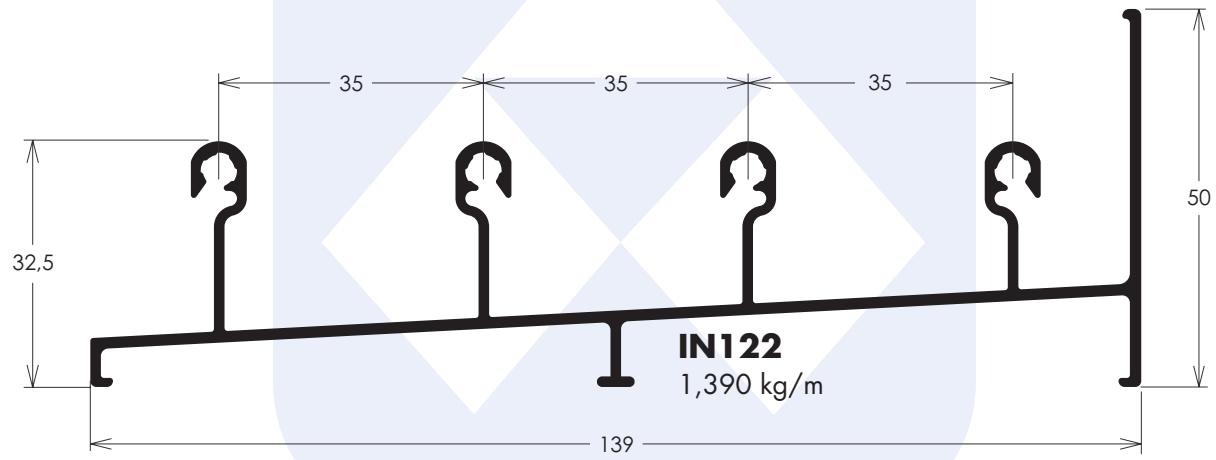
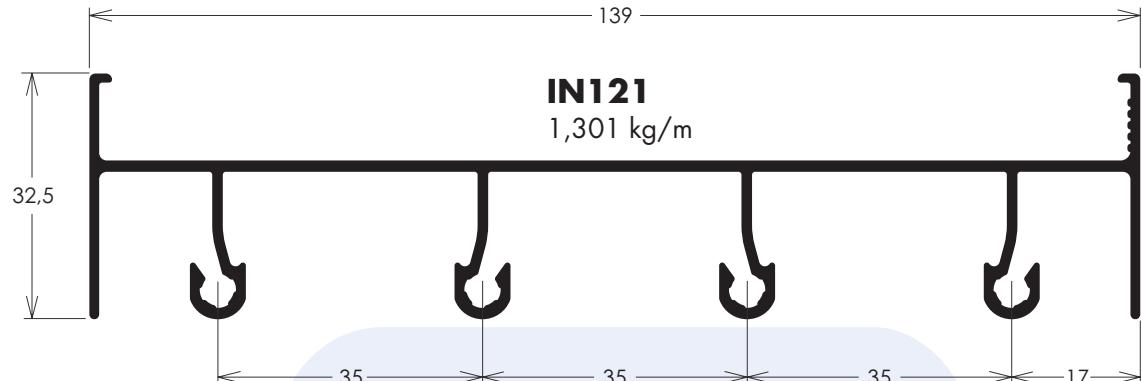
OBS.: Ver Instrução de Montagem

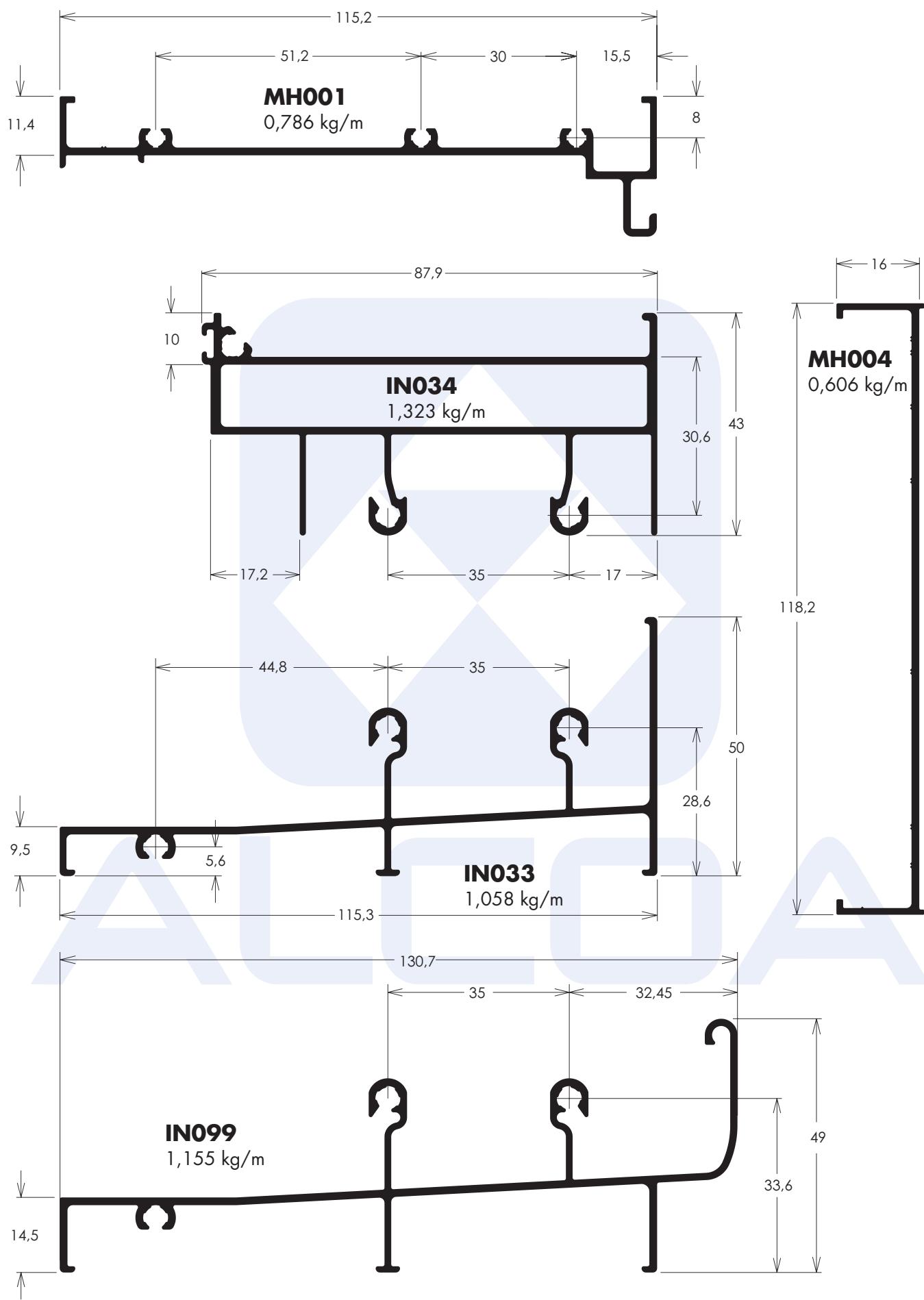


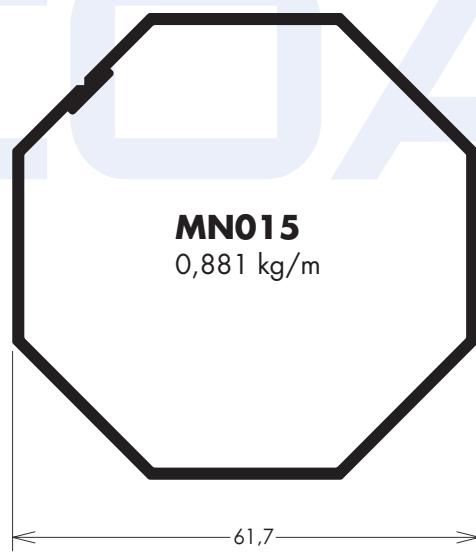
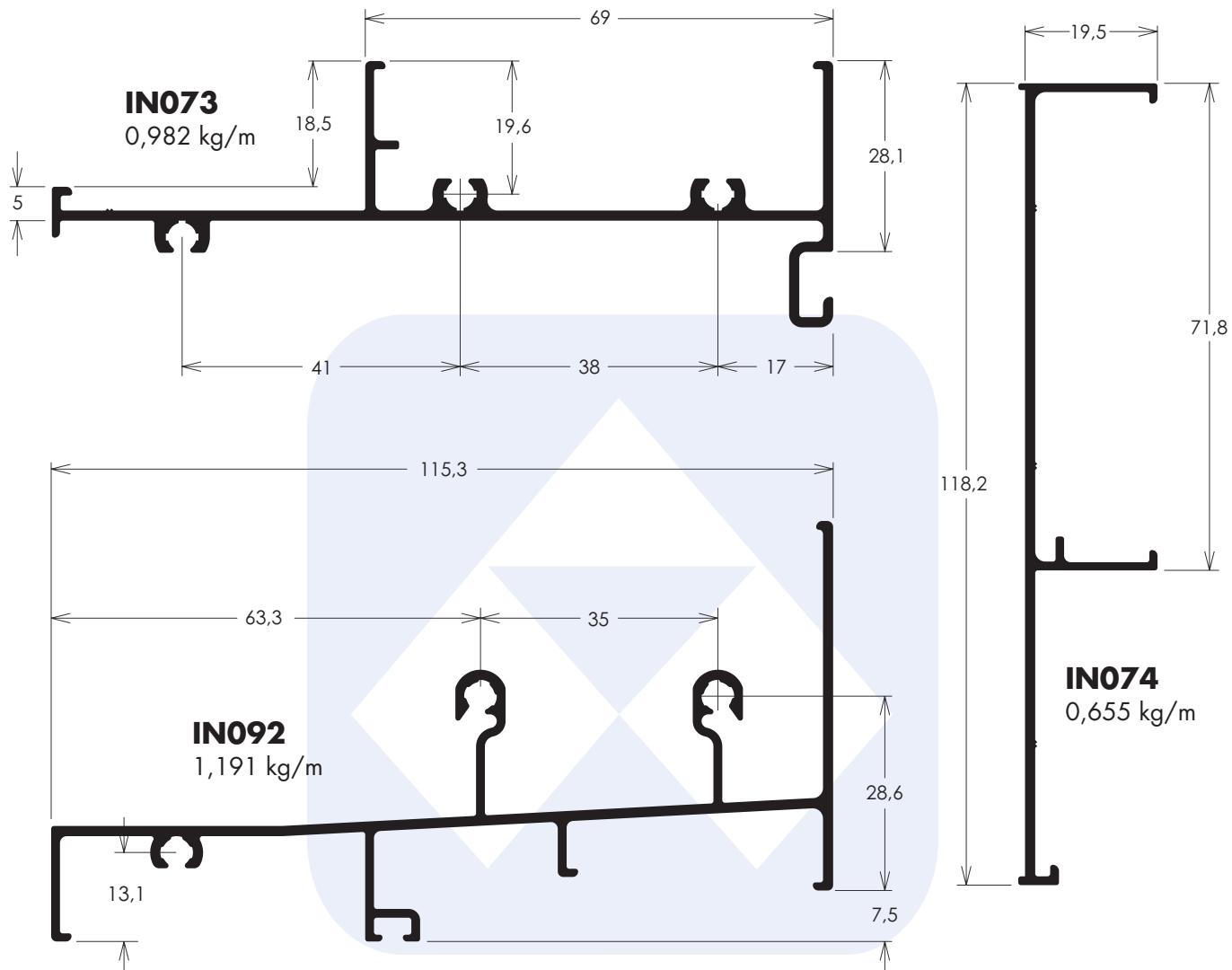
Empregar este trilho somente para regiões I e II.

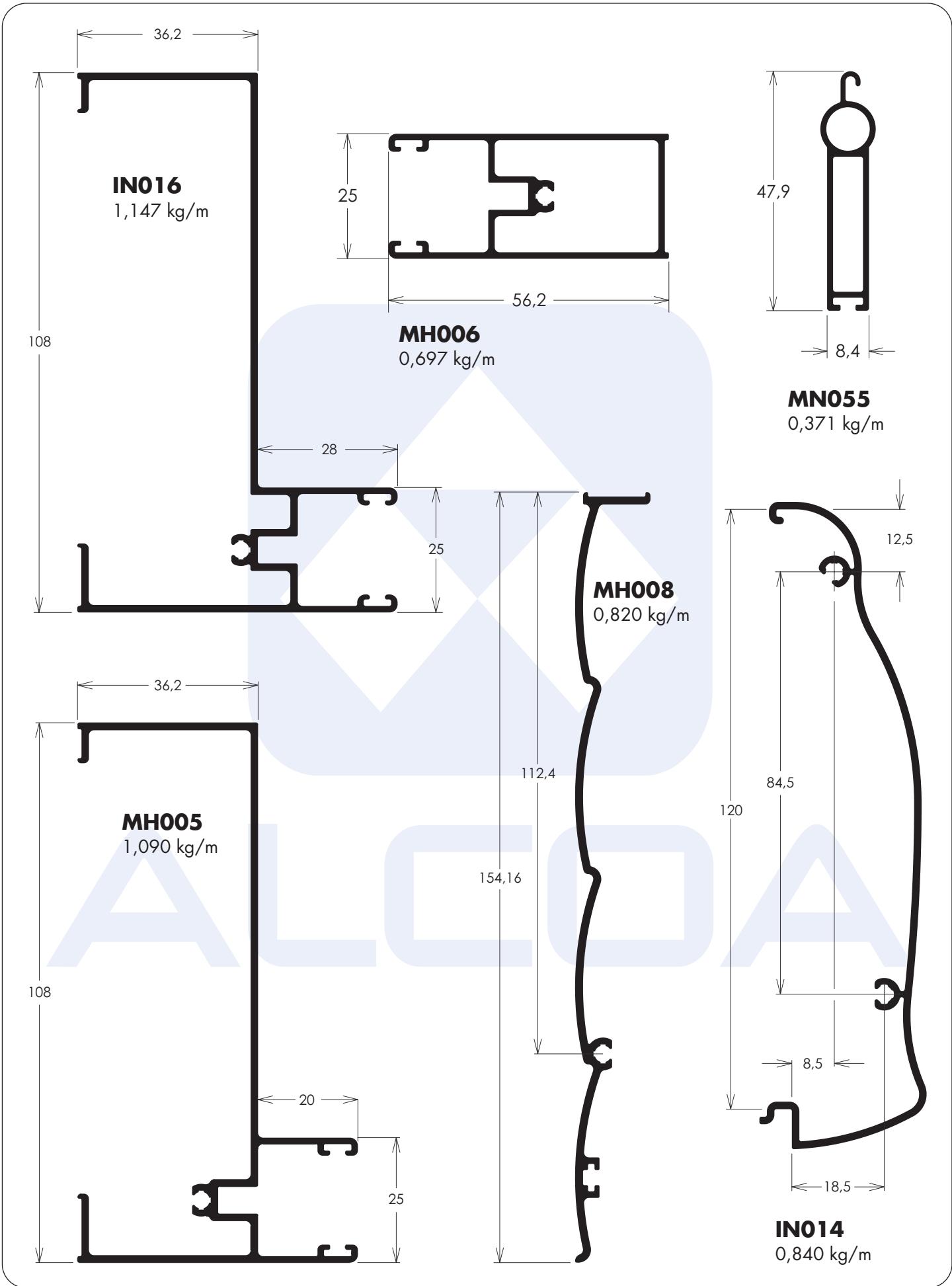
OBS.: Ver Instrução de Montagem





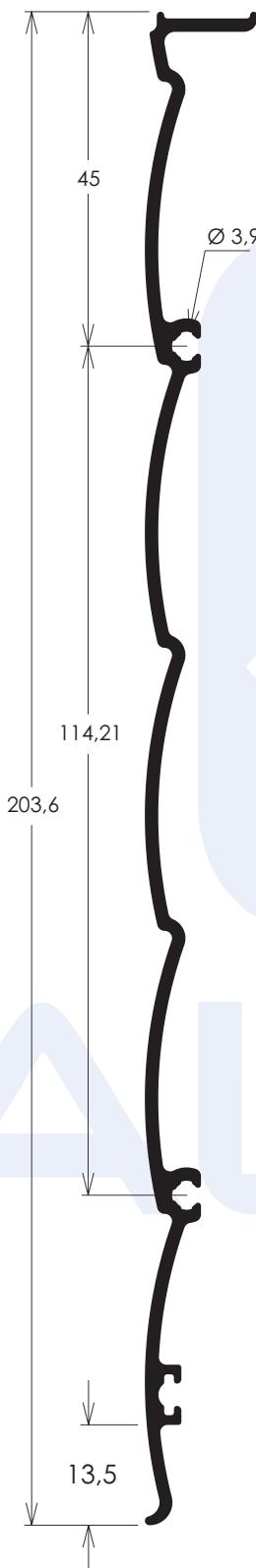




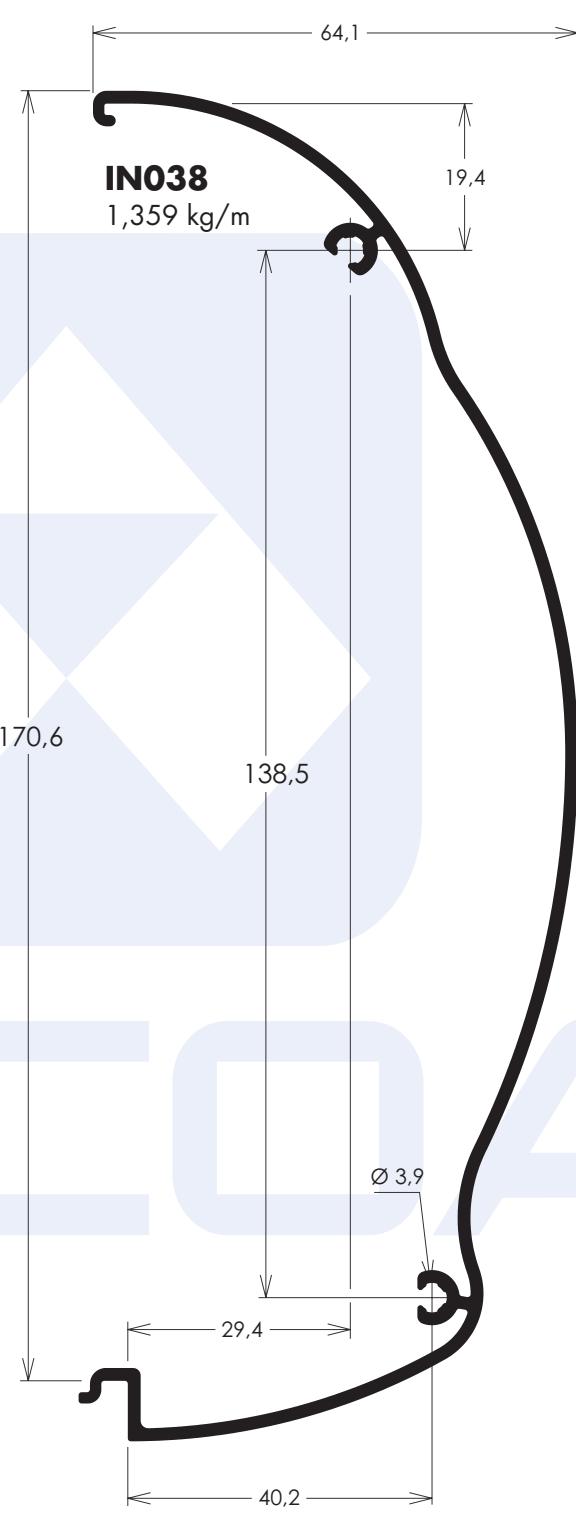


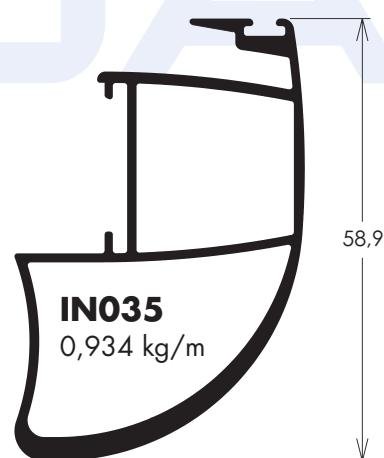
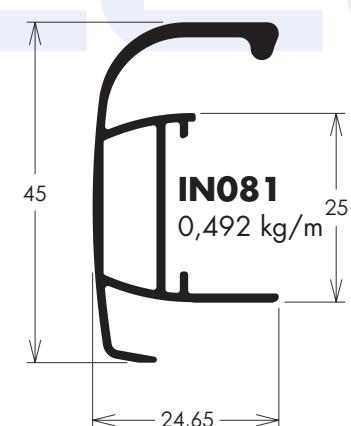
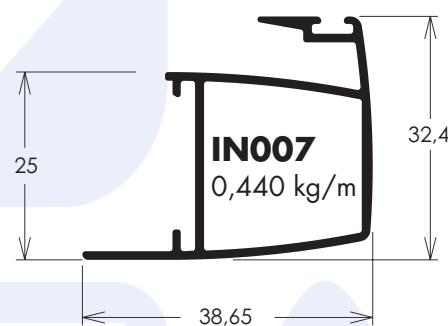
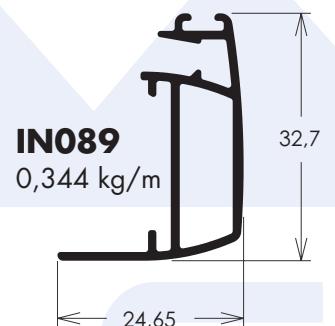
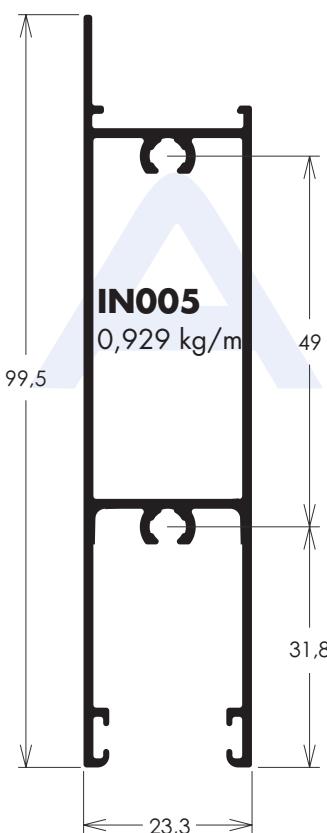
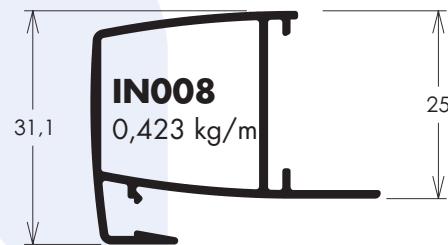
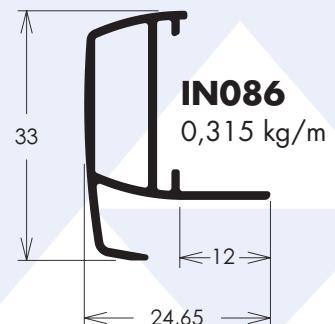
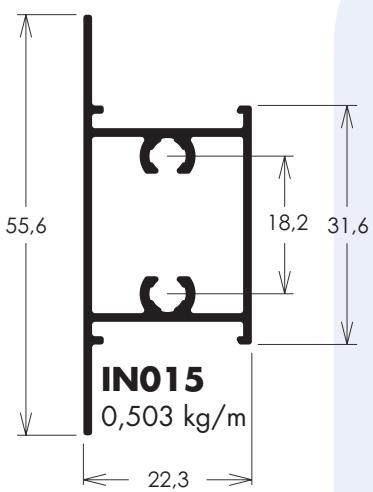
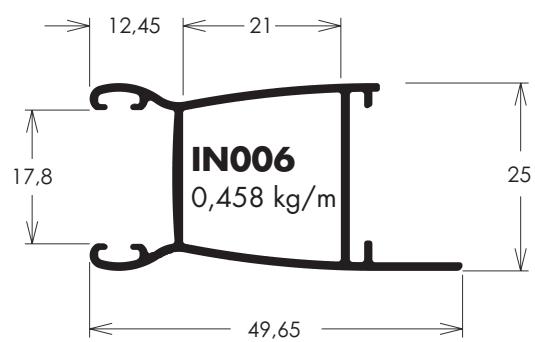
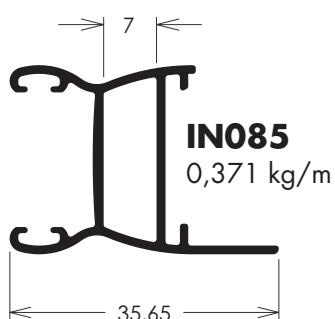
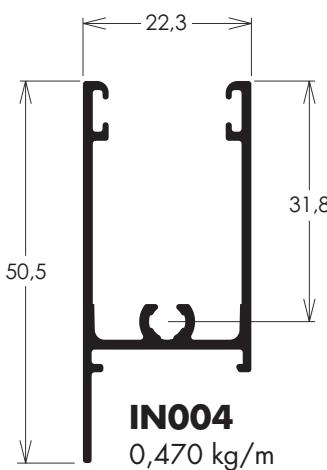
IN039

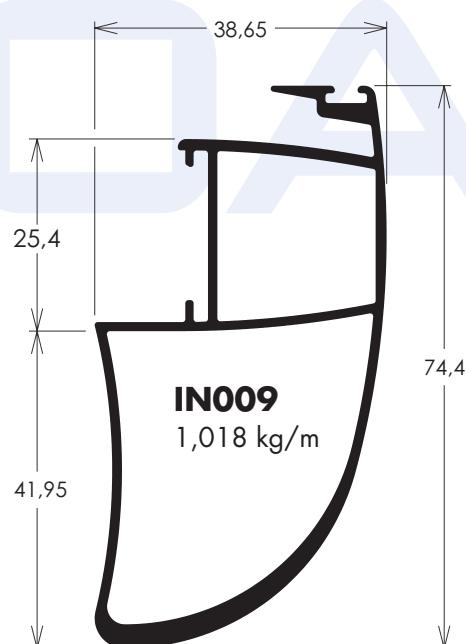
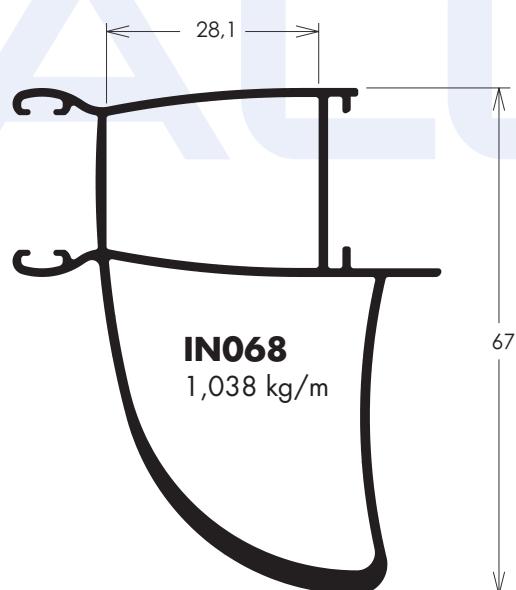
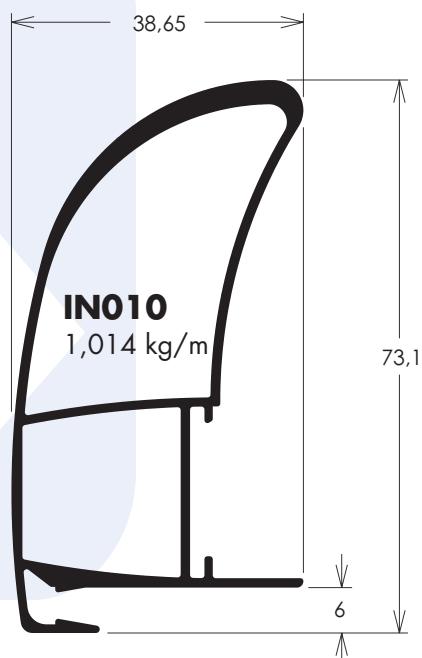
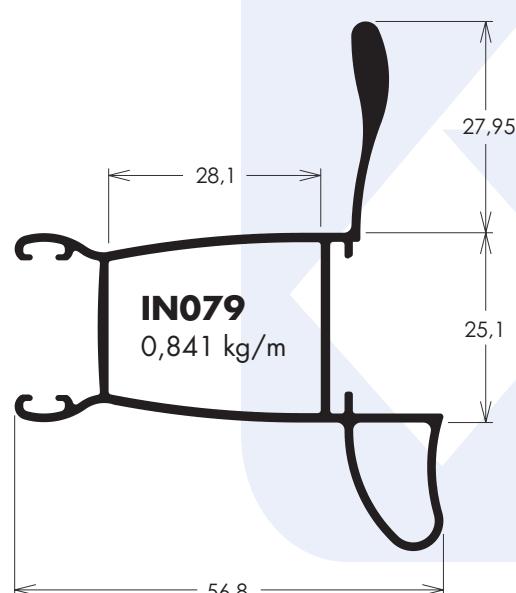
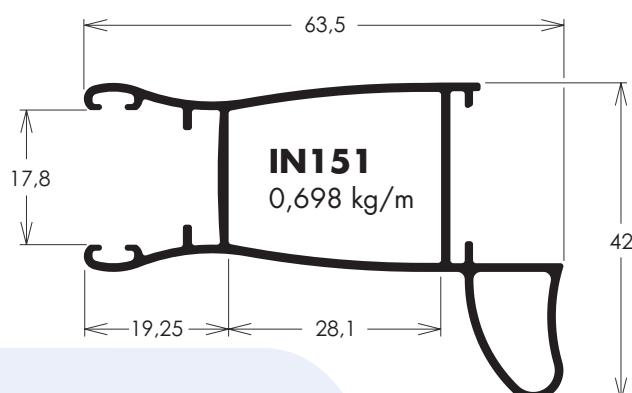
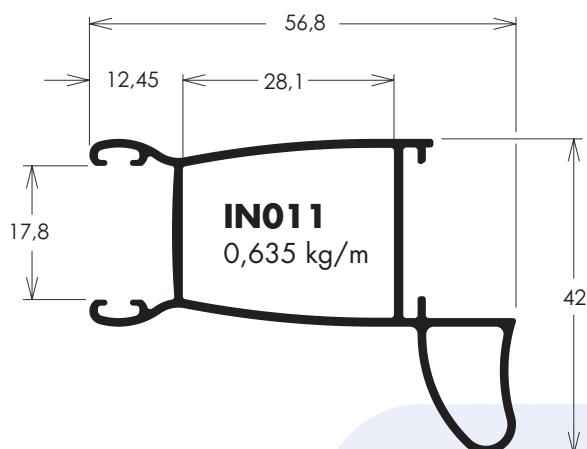
1,216 kg/m

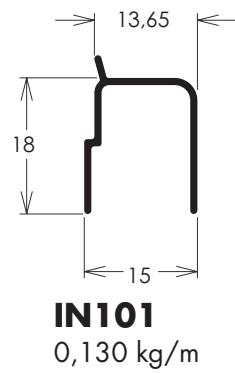
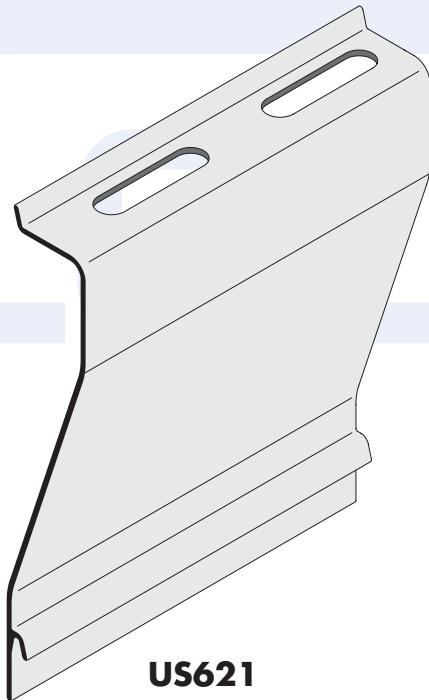
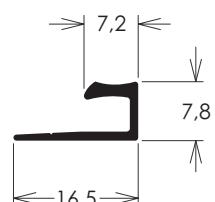
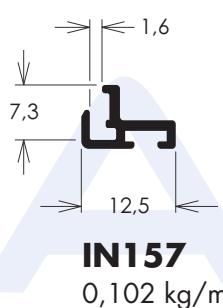
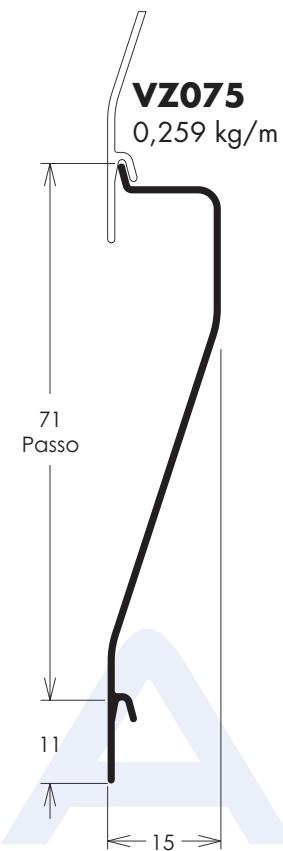
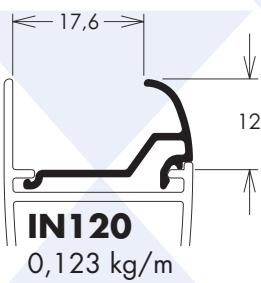
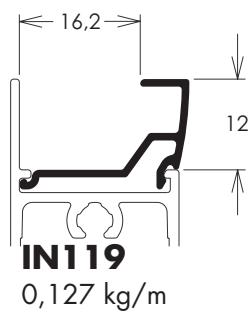
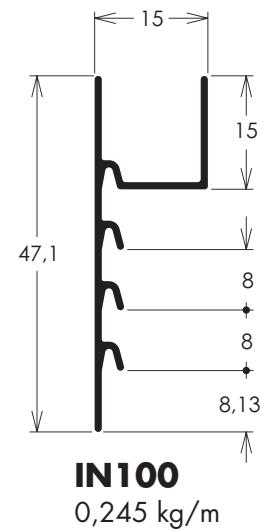
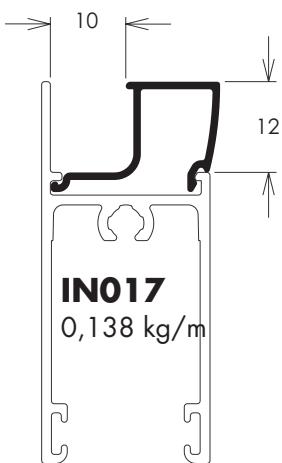
**IN038**

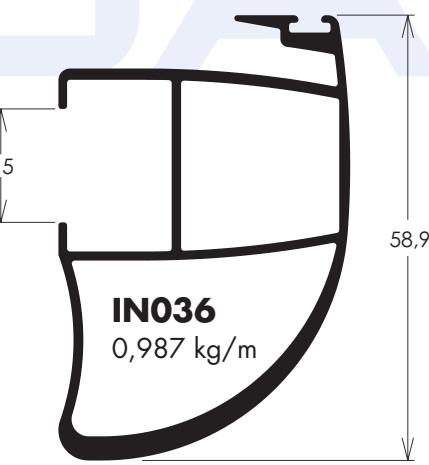
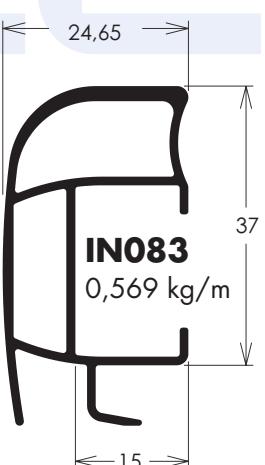
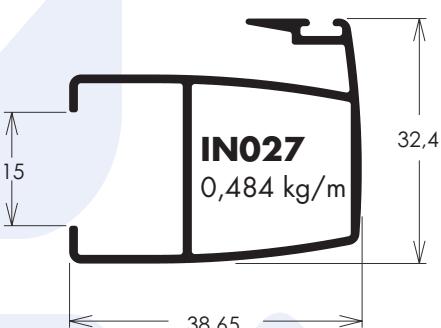
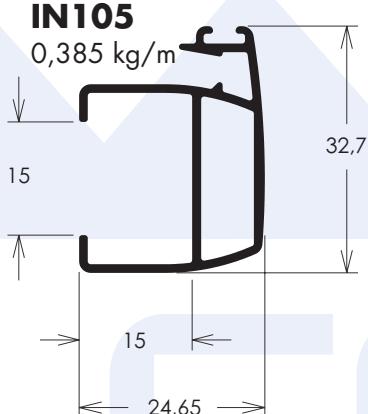
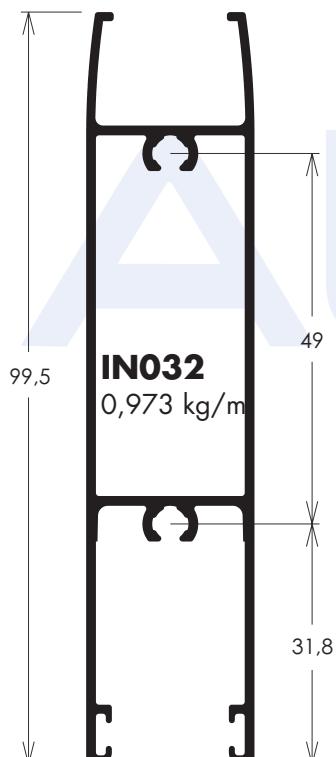
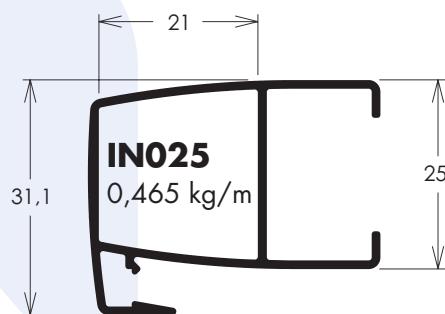
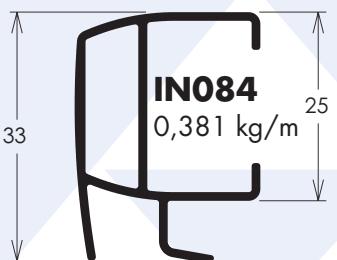
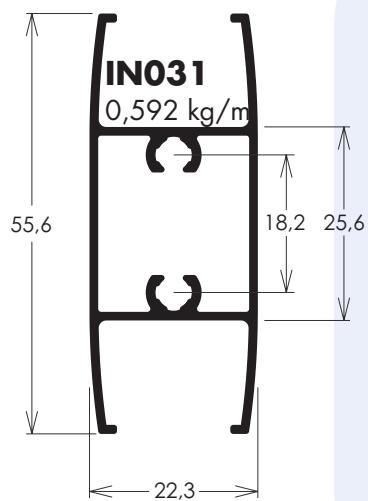
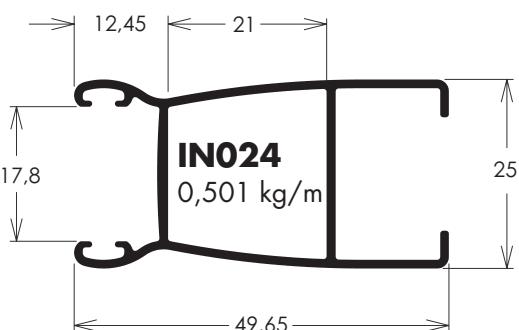
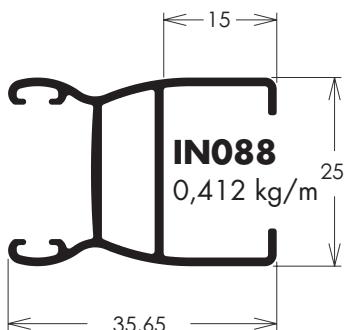
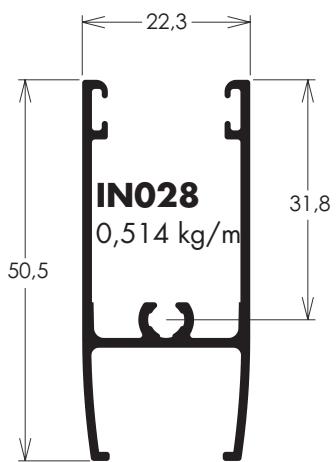
1,359 kg/m

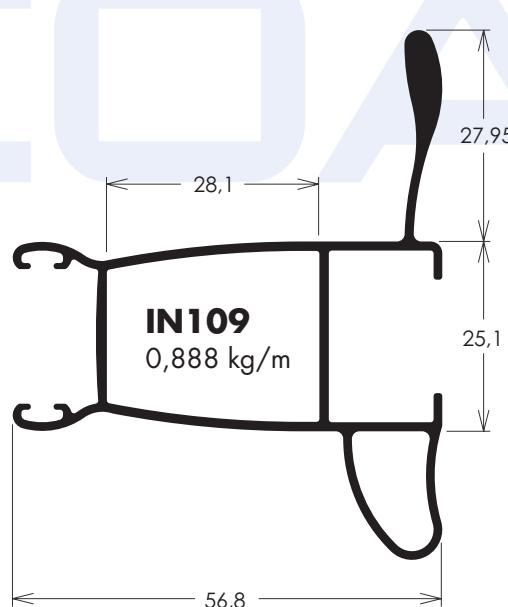
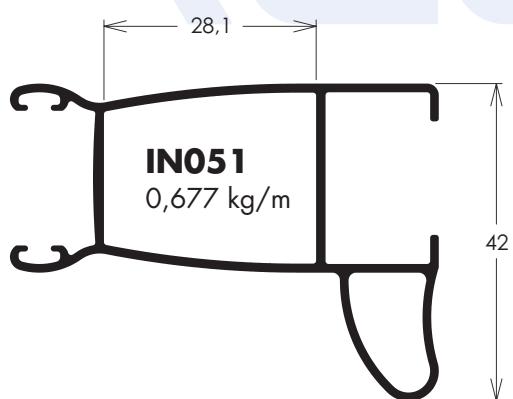
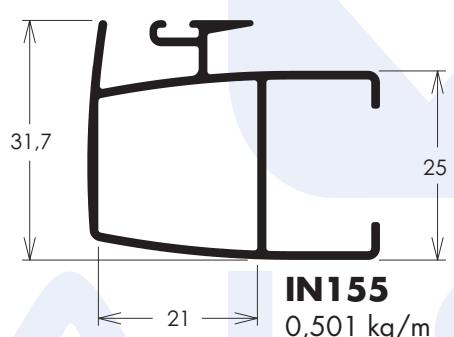
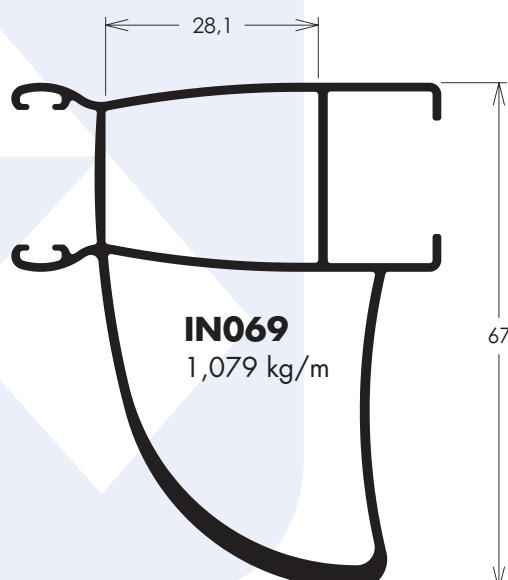
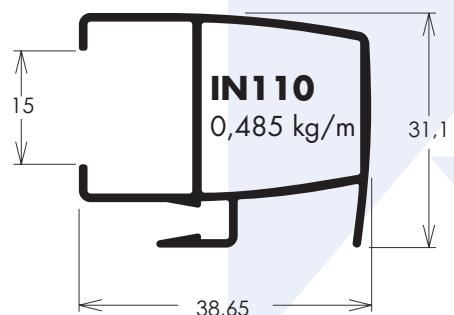
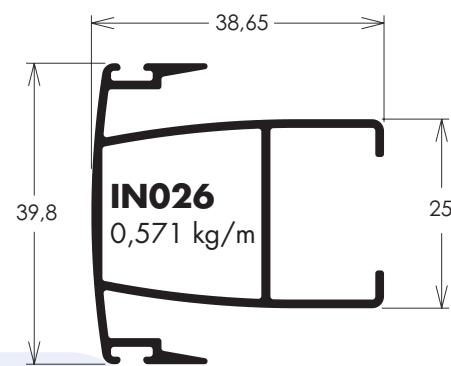
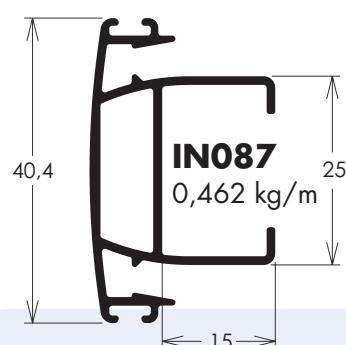
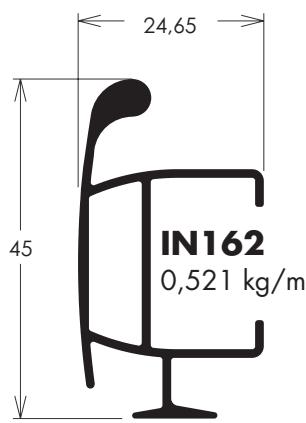


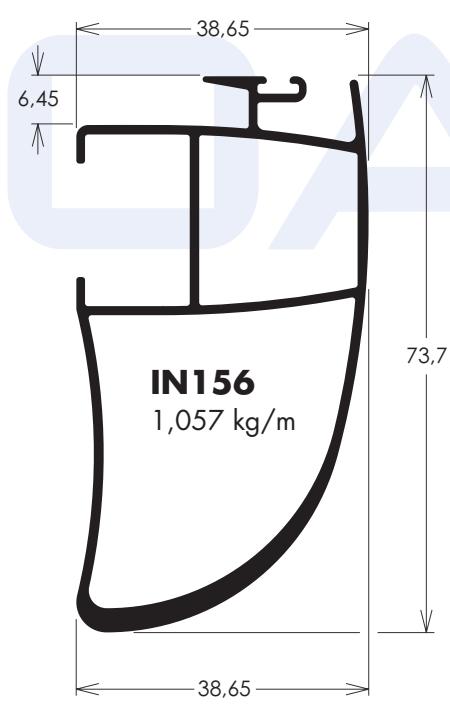
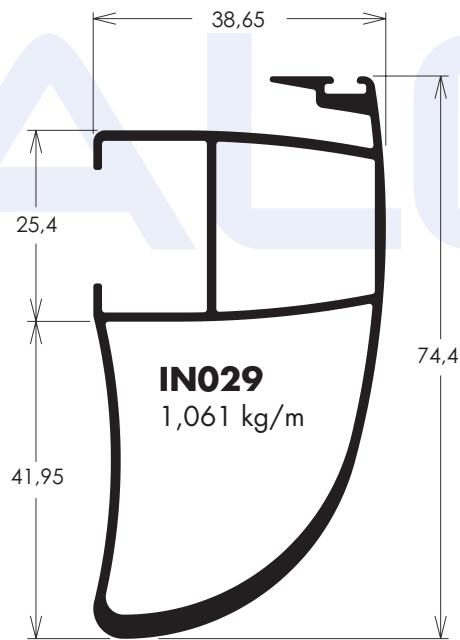
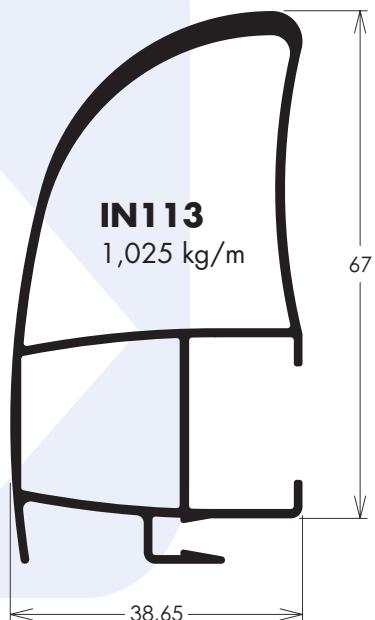
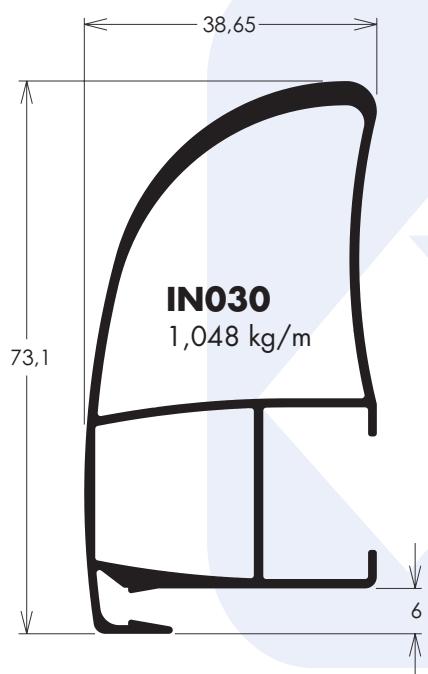
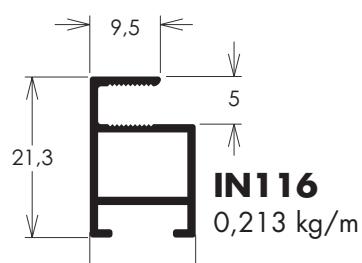
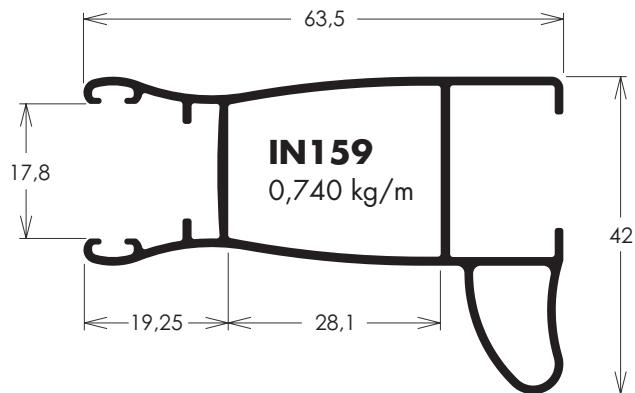


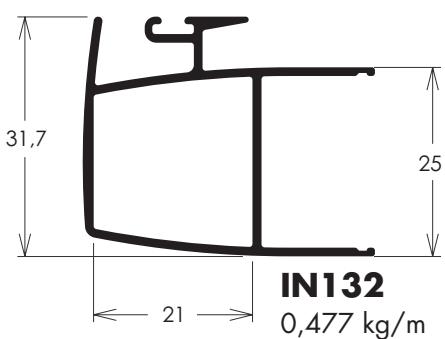
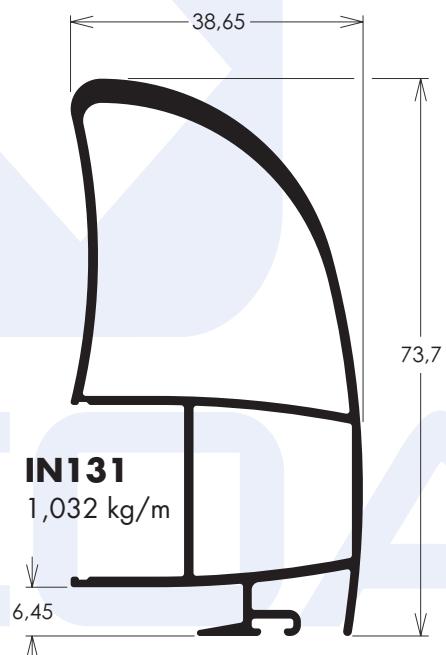
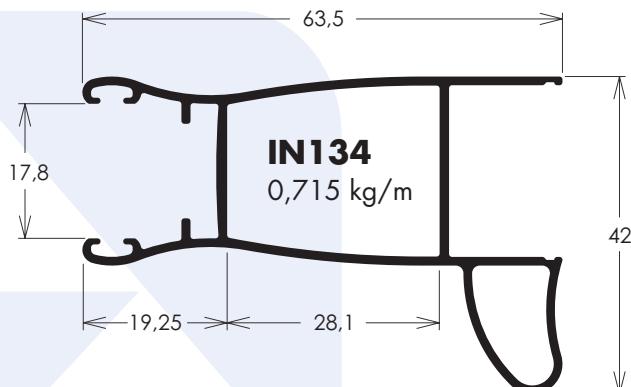
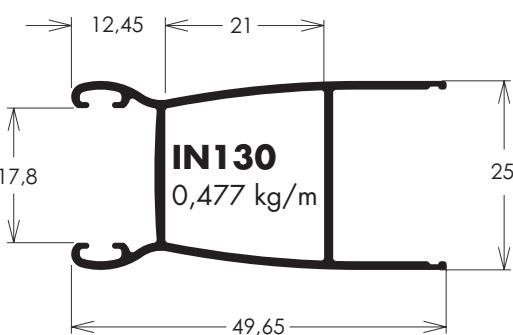
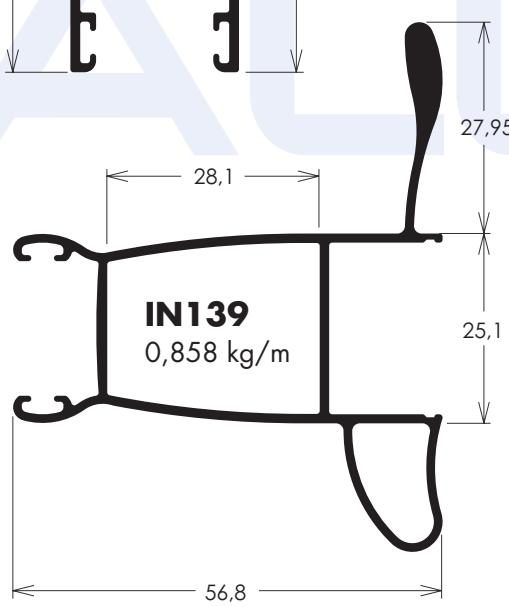
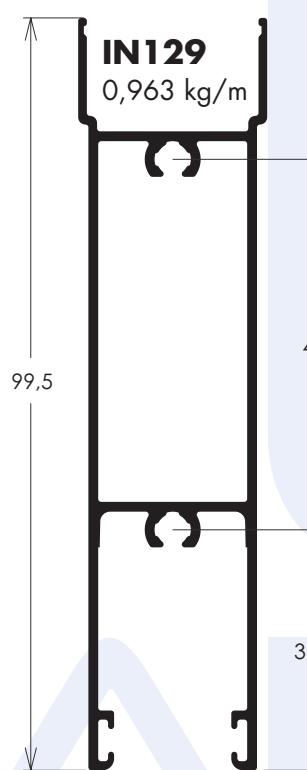
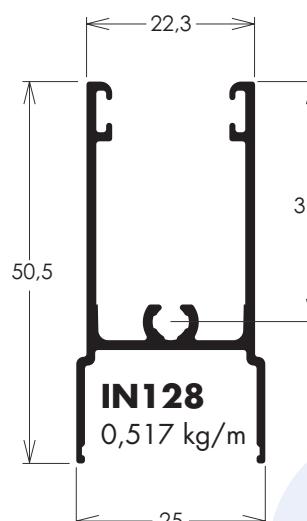


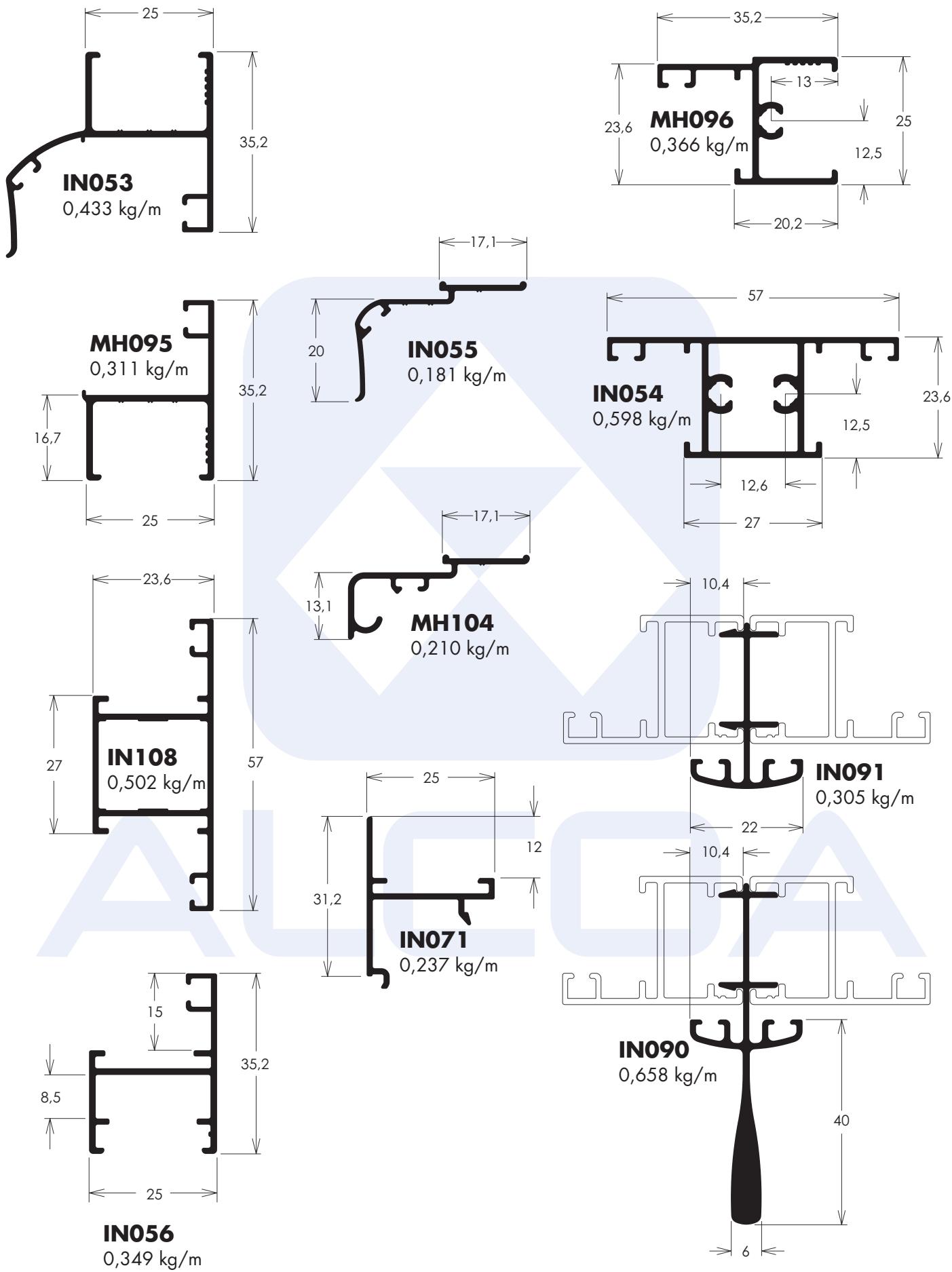


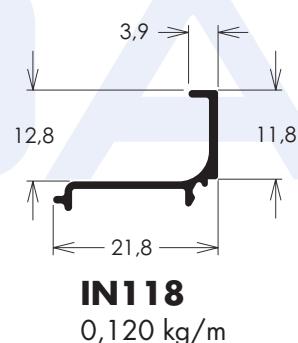
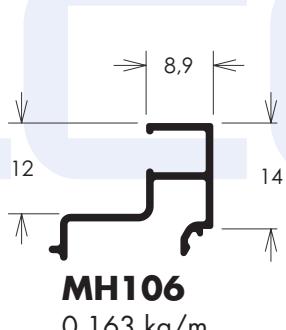
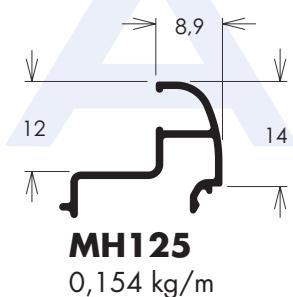
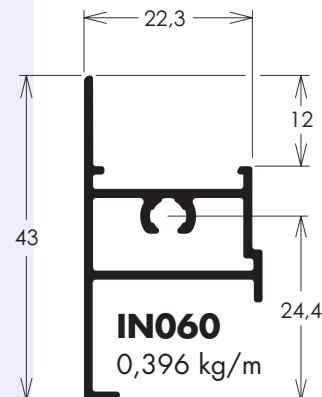
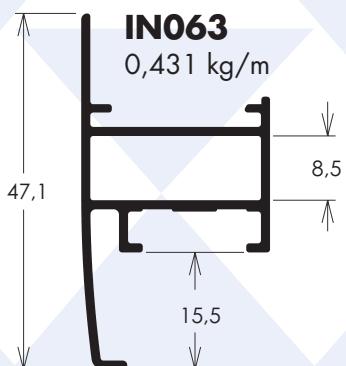
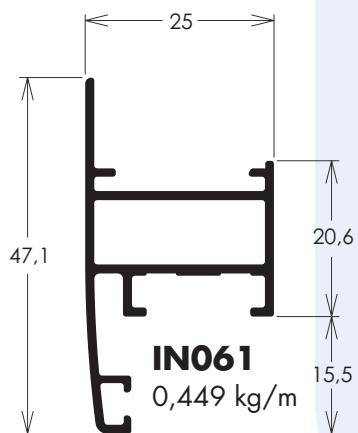
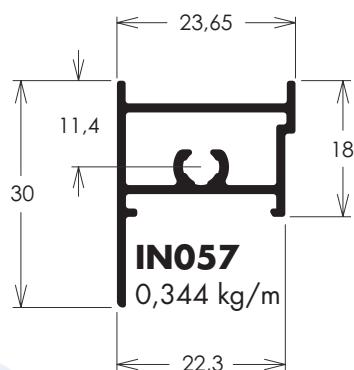
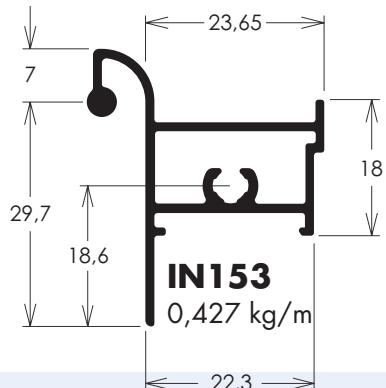
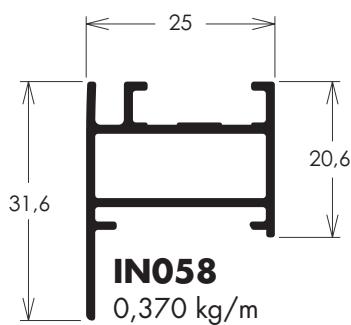


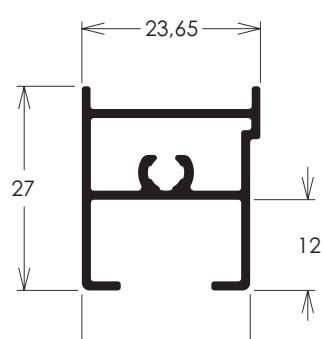




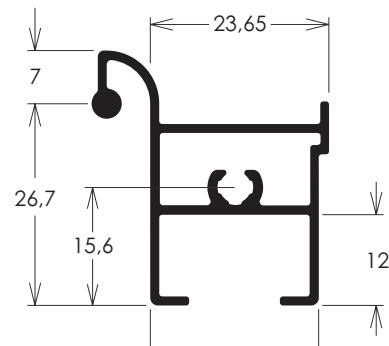




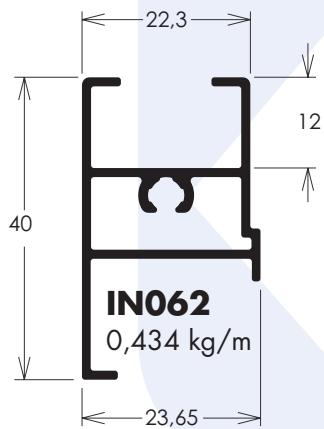




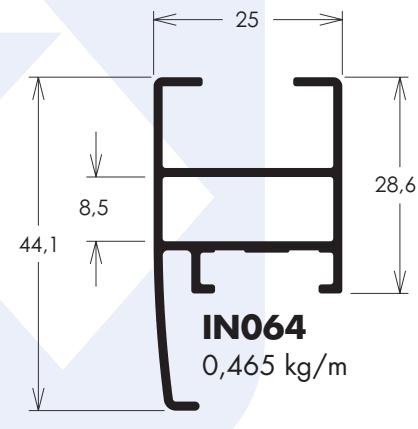
IN059
0,382 kg/m



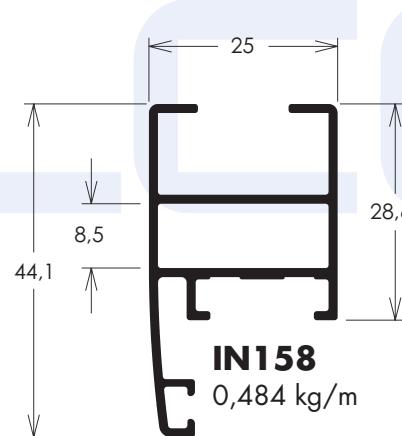
IN154
0,465 kg/m



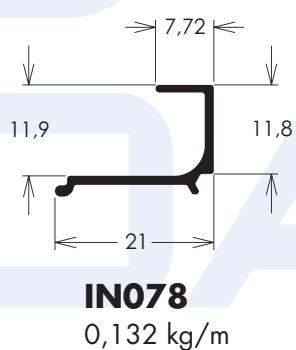
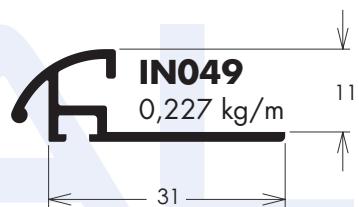
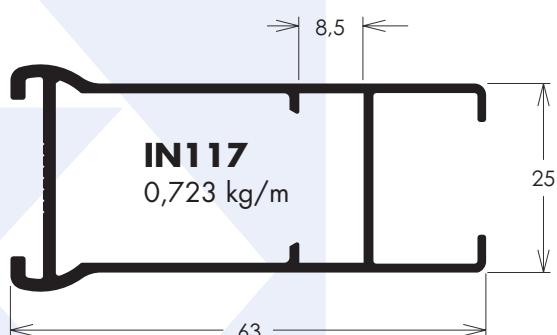
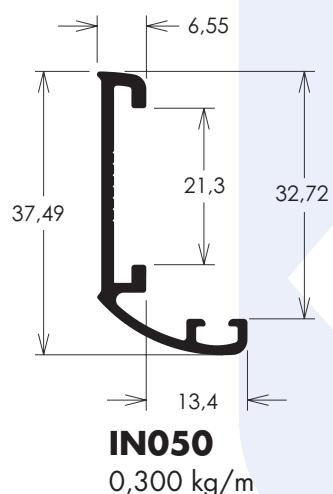
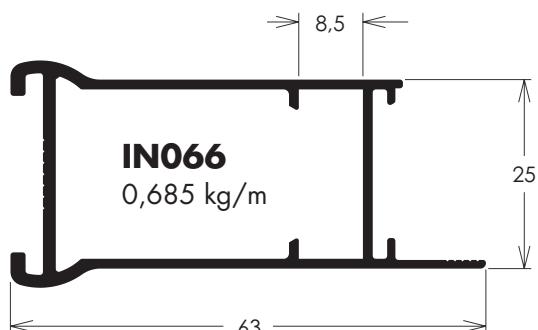
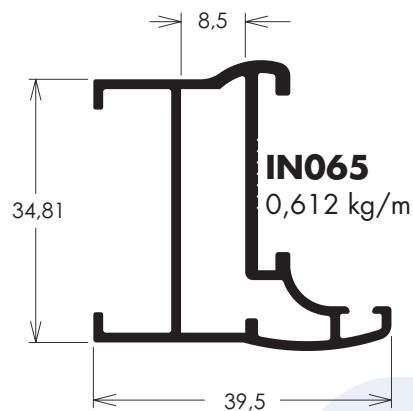
IN062
0,434 kg/m



IN064
0,465 kg/m

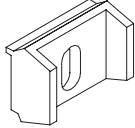


IN158
0,484 kg/m

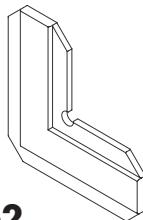


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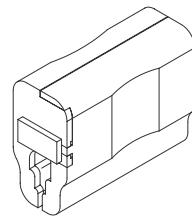
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**NYL190**

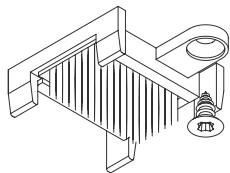
Botão de fixação do Remate
Nylon Preto

**NYL462**

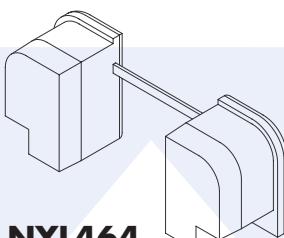
Conexão Interna do Remate
Nylon Preto

**NYL451**

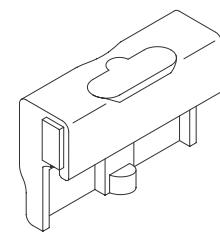
Batedeira para Janela
Nylon Branco ou Preto

**NYL453**

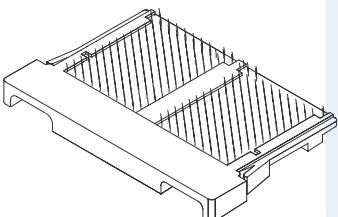
Vedaçāo Superior
Nylon Branco ou Preto

**NYL464**

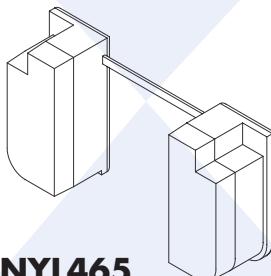
Tampa de Topo IN001
EPDM Branco ou Preto

**NYL460**

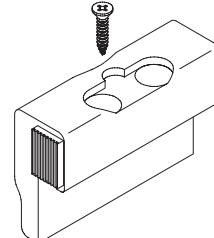
Batedeira para Porta
Nylon Branco ou Preto

**NYL452**

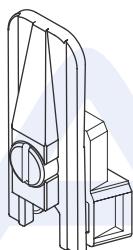
Caixa de Dreno
Nylon Branco ou Preto

**NYL465**

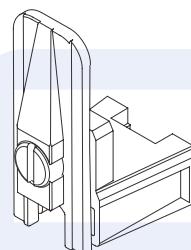
Tampa de Topo IN002
EPDM Branco ou Preto

**NYL478**

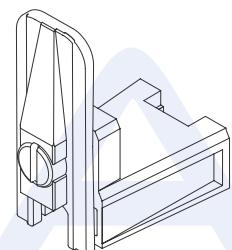
Batedeira para Porta
com fecho Multiponto
Nylon Branco ou Preto

**NYL467**

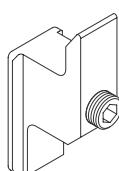
Guia Deslizante 7mm
Nylon Branco ou Preto

**NYL454**

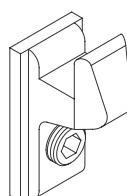
Guia Deslizante 21mm
Nylon Branco ou Preto

**NYL456**

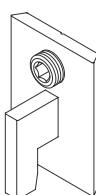
Guia Deslizante 28mm
Nylon Branco ou Preto

**CON409**

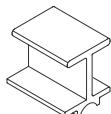
Contrafecho da Fechadura
Zamak Preto ou Branco

**CON370**

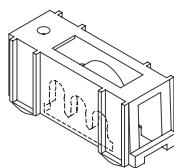
Contrafecho - Janela e Porta
Zamak Preto ou Branco

**CON441**

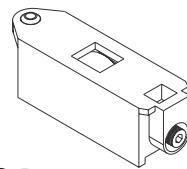
Trava da Folha Fixa
Alumínio Natural

**CAL948**

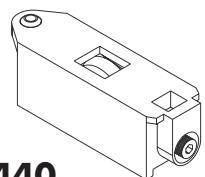
Calço da Folha Fixa
Alumínio Natural

**ROL461**

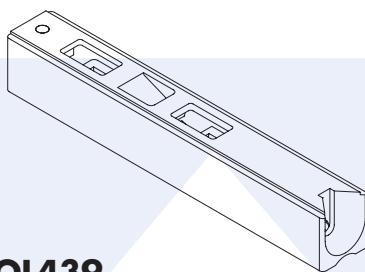
Roldana sem Rolamento
Capacidade: 15 kg/folha

**ROL426**

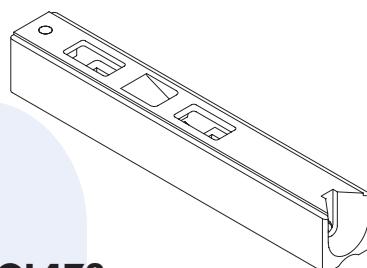
Roldana com Reg. sem Rolam.
Capacidade: 15 kg/folha

**ROL440**

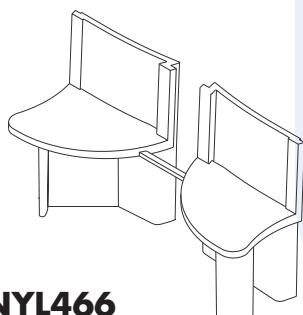
Roldana com Reg. e Rolam.
Capacidade: 40 kg/folha

**ROL439**

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

**ROL478**

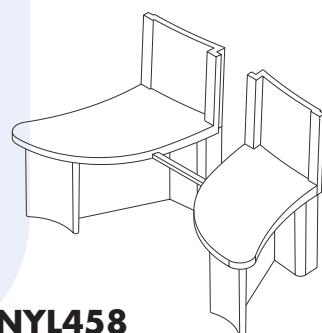
Roldana Dupla com Regulagem
e Rolamento agulha
Capacidade: 120 kg/folha

**NYL466**

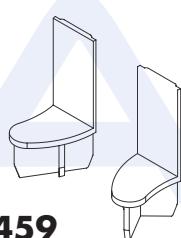
Tampa do Montante IN035
Nylon Branco ou Preto

**NYL457**

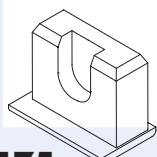
Tampa do Montante IN009
Nylon Branco ou Preto

**NYL458**

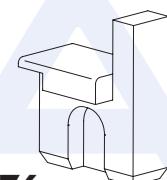
Tampa do Montante IN010
Nylon Branco ou Preto

**NYL459**

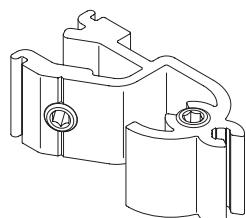
Tampa do Montante IN011
Nylon Branco ou Preto

**NYL475**

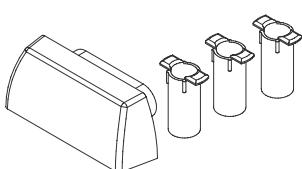
Tampa de Acabamento
Maxim ar - Inferior
EPDM Branco ou Preto

**NYL476**

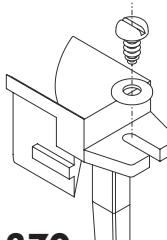
Tampa de Acabamento
Maxim ar - Superior
EPDM Branco ou Preto

**CON442**

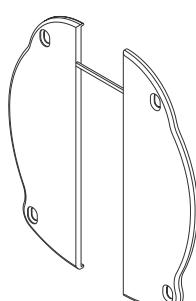
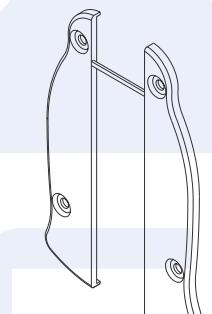
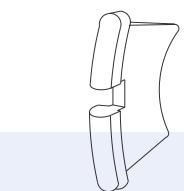
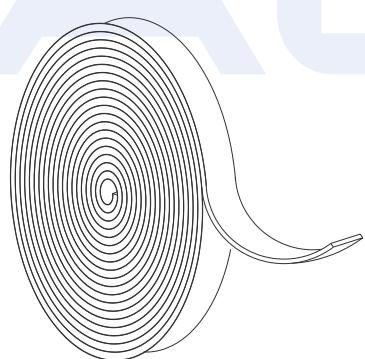
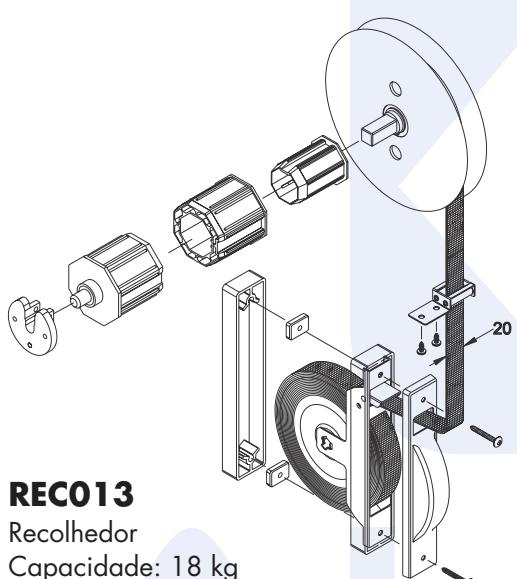
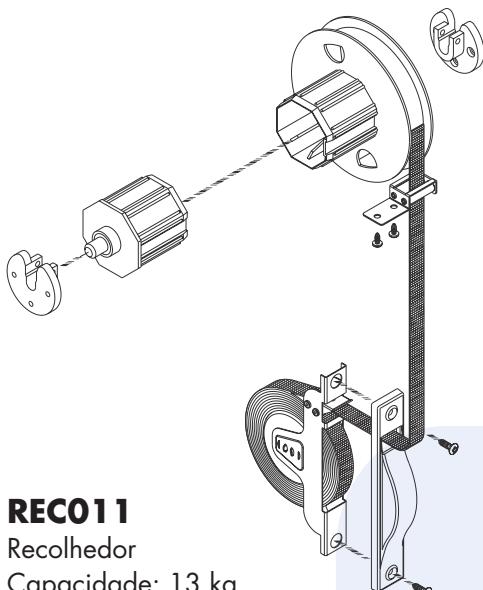
Fixador de Travessa
Alumínio natural

**NYL1203101**

Dreno
Nylon Preto

**NYL370**

Guia da Persiana
Nylon Branco ou Preto

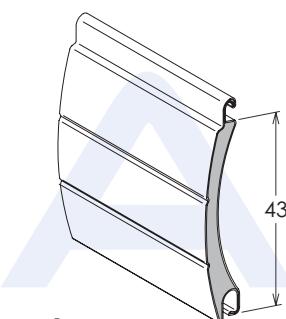


	Com Ventilação	Sem Ventilação
Branco	VZP031	VZC110
Prata	VZP032	VZC111
Bronze 1003	VZP033	VZC112
Preto	VZP034	VZC113
Bronze 1002	VZP035	VZC114

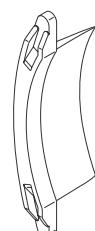
Persiana Nacional / Barras com 6000 mm

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

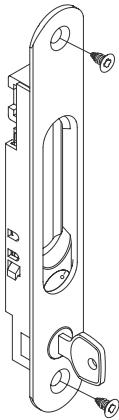
Persiana Importada / Barras com 5800 mm



Persiana nacional
Barras com 6000mm
Branco, Preto, Fosco, Bronze e Bege

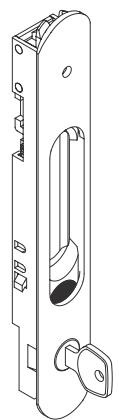
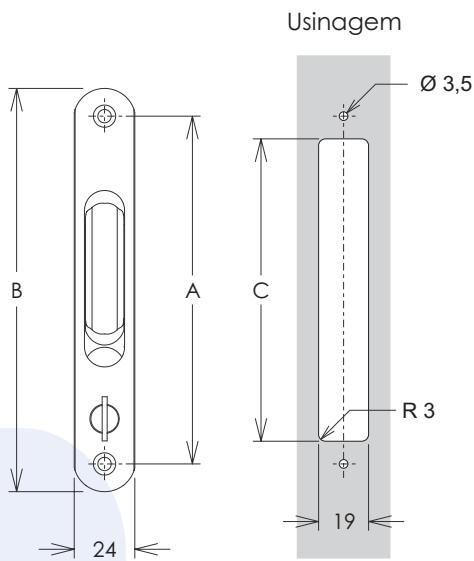


Tampa da Persiana VZP045
Nylon Branco ou Preto



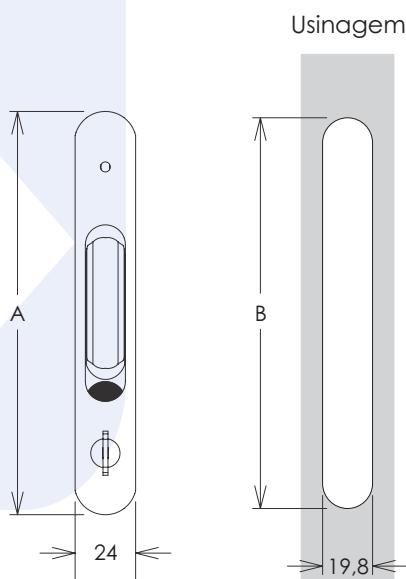
	Janelas	Portas
Fecho Concha	FEC1028	FEC1029
Concha com Chave	FEC1027	FEC1030
Concha Cega	CON444	CON445

Alumínio Branco ou Preto

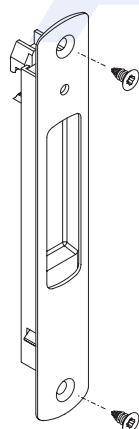


	Janelas	Portas
Fecho Concha	FEC1032	FEC1034
Concha com Chave	FEC1031	FEC1033
Concha Cega	CON446	CON447

Alumínio Branco ou Preto



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



FEC1026

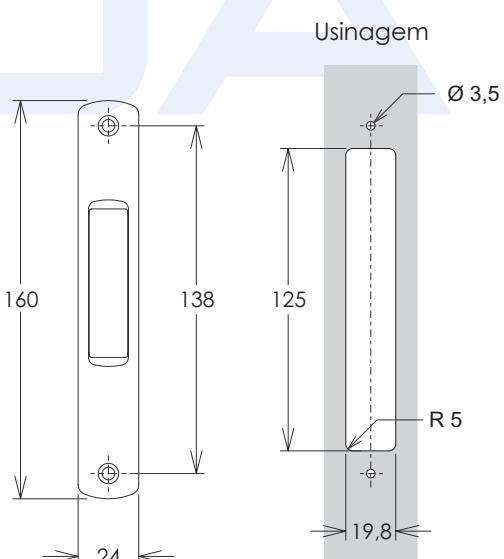
Fecho Concha

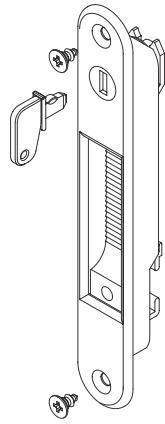
Alumínio Branco ou Preto
(Utiliza lingüeta TRA006)

CON443

Concha Cega

Alumínio Branco ou Preto

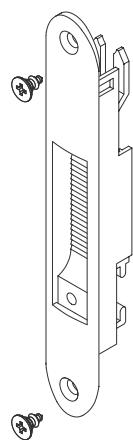




	Janelas	Portas
Fecho Concha com Chave	FEC1043	FEC1047
Fecho Concha	FEC1045	FEC1049
Concha Cega	CON450	CON451

Alumínio Branco ou Preto

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

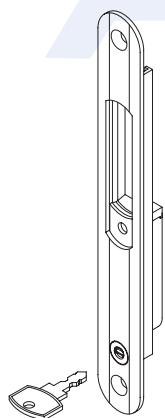


	Janelas	Portas
Fecho Autom. Com Chave	FEC1036	FEC1040
Fecho Concha Automático	FEC1038	FEC1042
Concha Cega	CON448	CON449

Alumínio Branco ou Preto

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

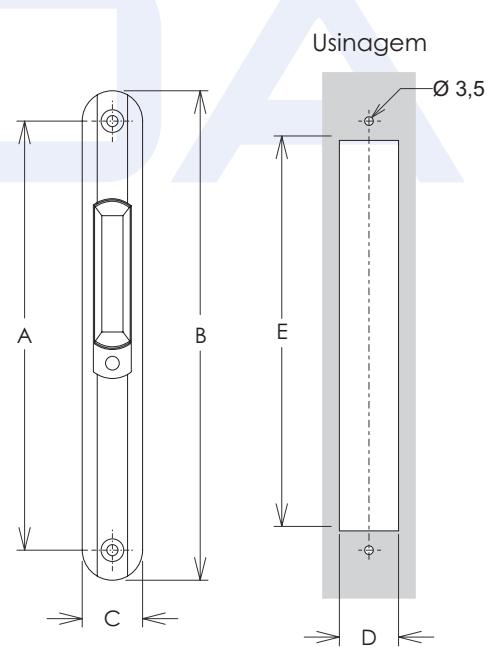
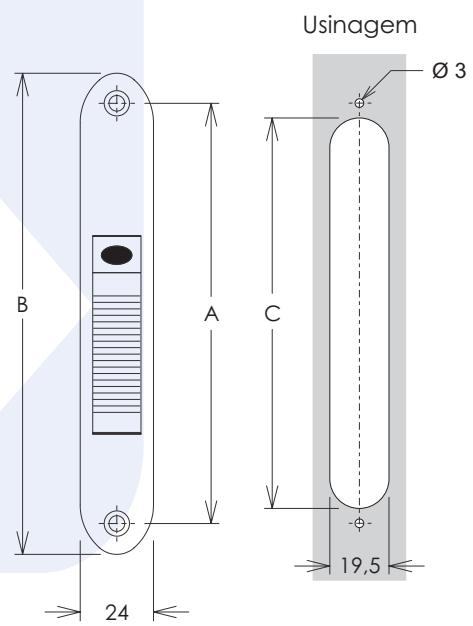
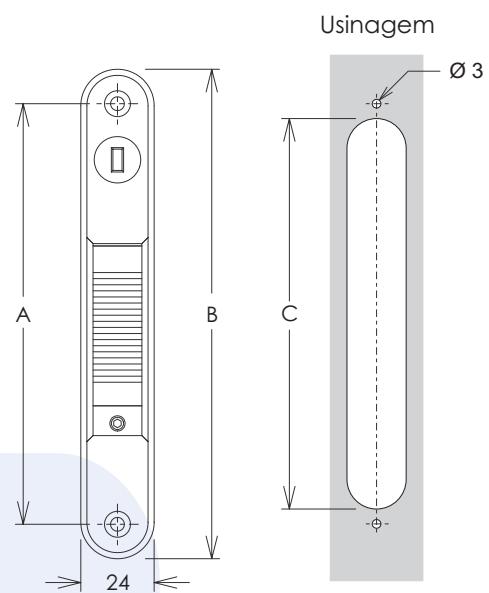
Obs.: Todos os fechos e conchas com chave acima, utilizam lingüeta TRA007

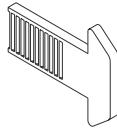


	Janelas	Portas
Fecho Concha com Chave	FEC1064	FEC1063
Fecho Concha	FEC1061	FEC1062
Concha Cega	CON280	FEC1013
Lingüeta	TRA014	TRA013

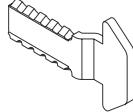
Alumínio Branco ou Preto

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





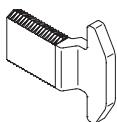
TRA005
Trava para fecho
Aço Inox



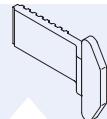
TRA006
Trava para fecho
Aço Inox



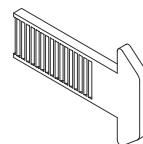
TRA007
Trava para fecho
Aço Inox



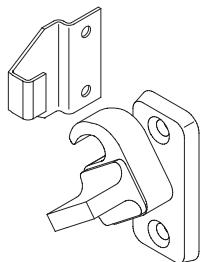
TRA013
Trava para fecho
Zamak



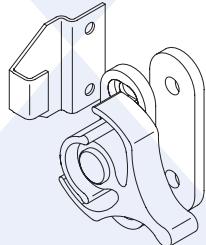
TRA014
Trava para fecho
Aço Inox



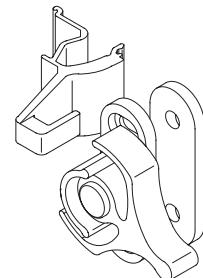
TRA015
Trava para fecho
(p/ perfil IN151)
Aço Inox



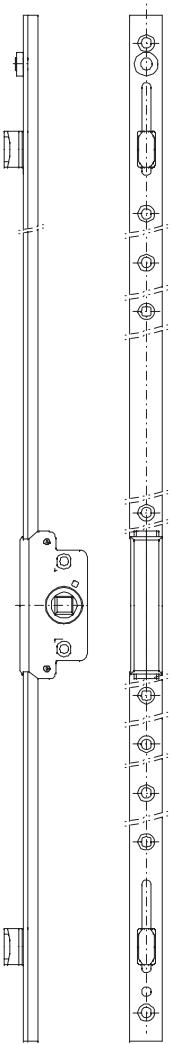
FEC1019
Fecho Caracol
para folha veneziana
Alumínio Preto



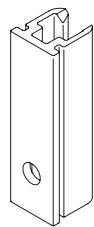
FEC1024
Fecho Central
Sem baguete
Alumínio Preto



FEC1025
Fecho Central
Com baguete
Alumínio Preto

**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

FEC1066**FEC1068**

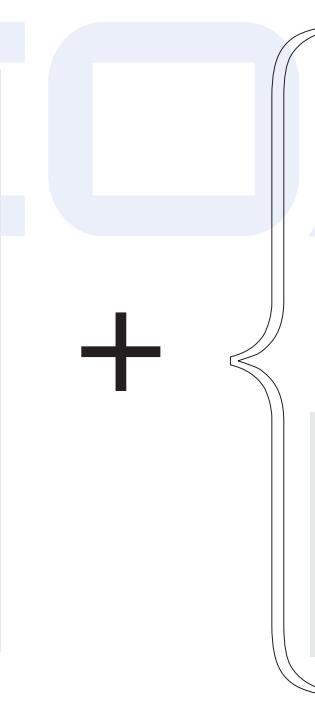
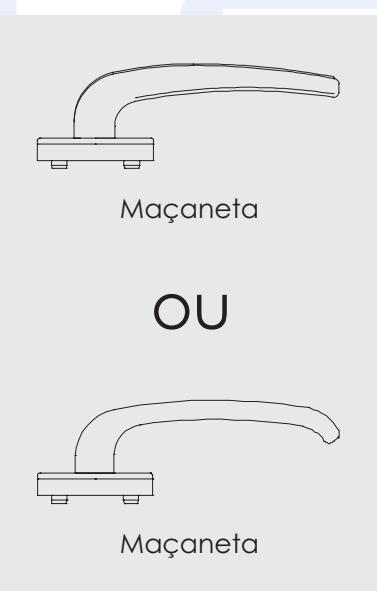
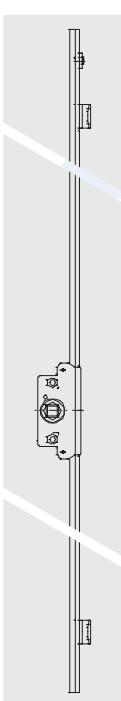
Fecho Cremona
Alumínio Branco ou Preto

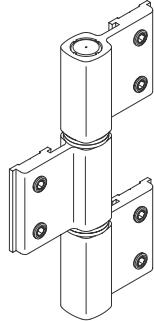
**FEC1067****FEC1069**

Fecho Cremona
Alumínio Branco ou Preto

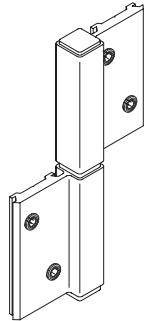
Cremona

Composição de conjunto Multiponto

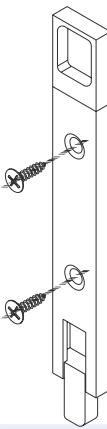


**DOB852**

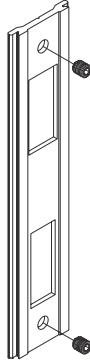
Dobradiça 3 abas
Alumínio Branco ou Preto

**DOB853**

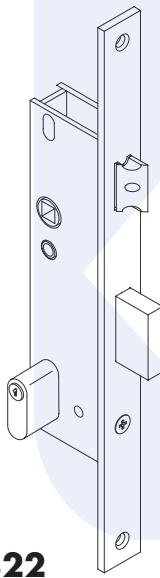
Dobradiça 2abas
Alumínio Branco ou Preto

**FEC338**

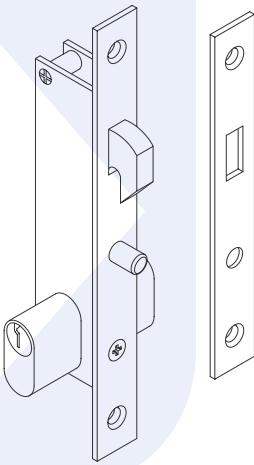
Fecho Unha de Sobrepor
Alumínio e Nylon Preto

**CON453**

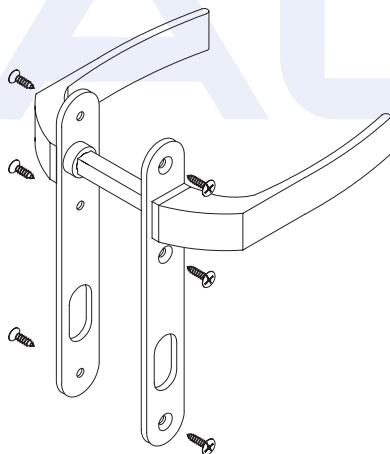
Contratesta
Alumínio Branco ou Preto

**FRA822**

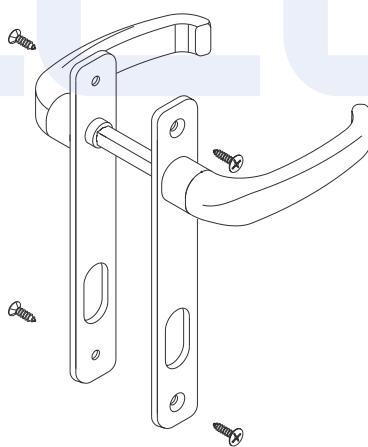
Fechadura - Porta de Giro
Latão Fumê

**FRA820**

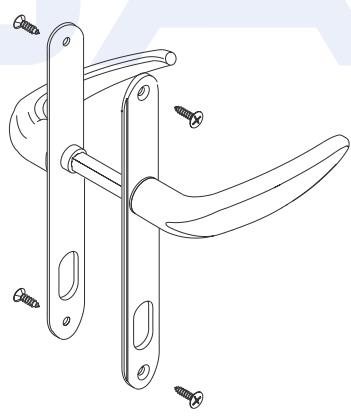
Fechadura - Porta de Correr
Latão Fumê

**MAC927**

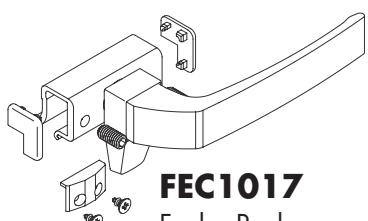
Maçaneta com Espelho
Alumínio Branco ou Preto

**MAC1004**

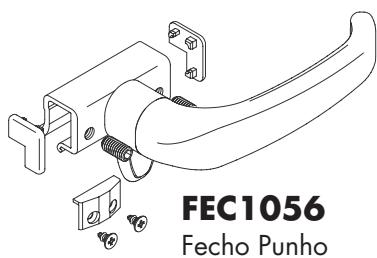
Maçaneta com Espelho
Alumínio Branco ou Preto

**MAC1005**

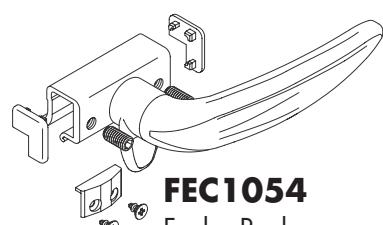
Maçaneta com Espelho
Alumínio Branco ou Preto

**FEC1017**

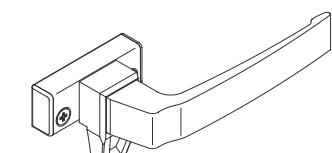
Fecho Punho
Folha com Baguete
Alumínio Branco ou Preto

**FEC1056**

Fecho Punho
Folha com Baguete
Alumínio Branco ou Preto

**FEC1054**

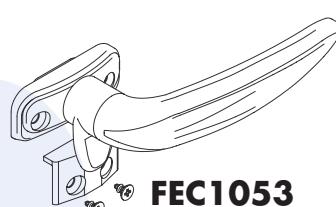
Fecho Punho
Folha com Baguete
Alumínio Branco ou Preto

**FEC1014**

Fecho Punho
Folha sem Baguete
Alumínio Branco ou Preto

**FEC1055**

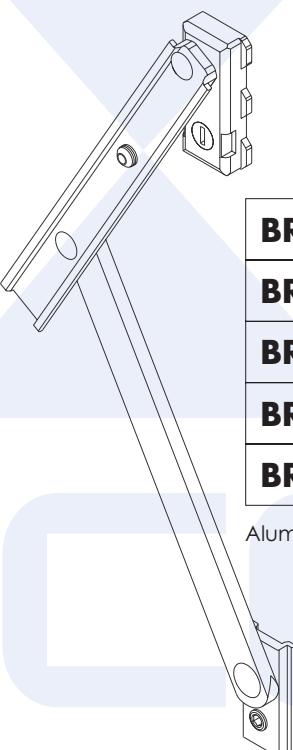
Fecho Punho
Folha sem Baguete
Alumínio Branco ou Preto

**FEC1053**

Fecho Punho
Folha sem Baguete
Alumínio Branco ou Preto

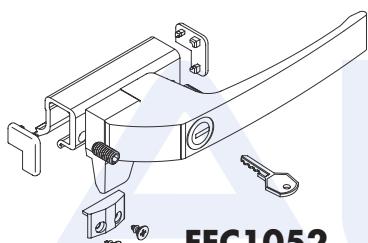
**FEC1051**

Fecho Punho com Chave
Folha sem Baguete
Alumínio Branco ou Preto

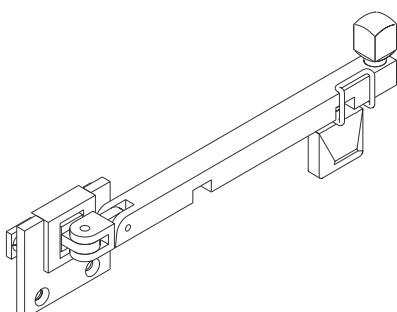


	Dimensão	Altura da Folha	Carga Máxima
BRA783	180	Min: 200 Max: 300	4,2 kg
BRA775	250	Min: 270 Max: 430	6 kg
BRA776	400	Min: 420 Max: 610	8 kg
BRA777	600	Min: 620 Max: 760	10 kg
BRA778	750	Min: 770 Max: 900	11 kg

Alumínio Natural

**FEC1052**

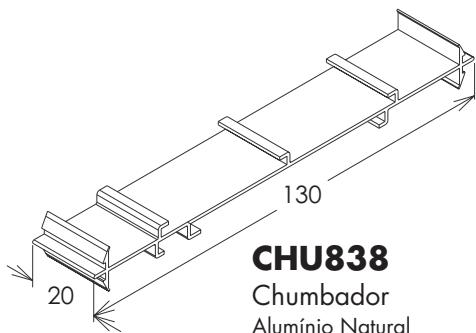
Fecho Punho com Chave
Folha com Baguete
Alumínio Branco ou Preto

**FEC1015**

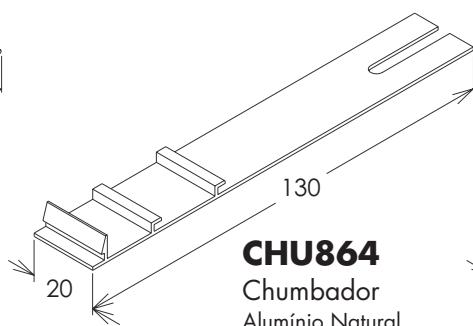
Fecho Haste
Folha sem Baguete
Alumínio Branco ou Preto

FEC1018

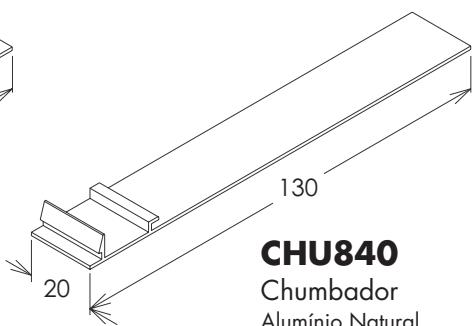
Fecho Haste
Folha com Baguete
Alumínio Branco ou Preto



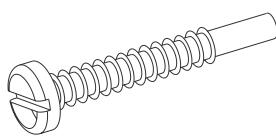
CHU838
Chumbador
Alumínio Natural
(CM093)



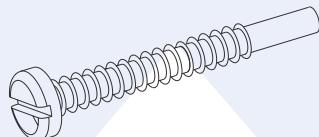
CHU864
Chumbador
Alumínio Natural
(CM175)



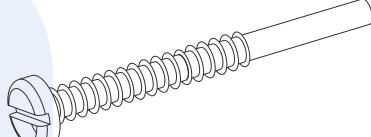
CHU840
Chumbador
Alumínio Natural
(CM099)



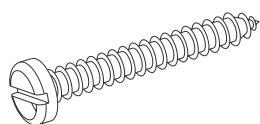
PAR436
Parafuso AA Ø 3,9 x 28mm
Aço Inox



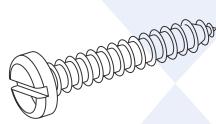
PAR428
Parafuso AA Ø 4,8 x 32mm
Aço Inox



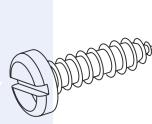
PAR431
Parafuso AA Ø 4,8 x 50mm
Aço Inox



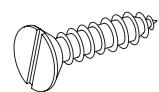
PAR694
Parafuso AA Ø 4,2 x 32mm
Aço Inox



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



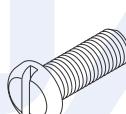
PAR703
Parafuso AA Ø 3,5 x 9,5mm
Aço Inox Preto



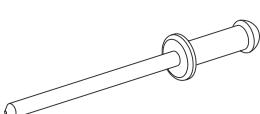
PAR434
Parafuso AA Ø 3,9 x 9,5mm
Aço Inox



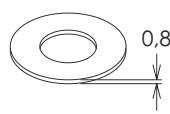
PAR704
Parafuso AA Ø 3,9 x 6,5mm
Aço Inox Preto



PAR1001
Parafuso M4 x 10mm
Aço Inox



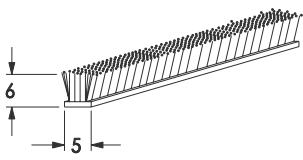
REB117
Rebite Ø 3,2 x 10,2mm
Alumínio Natural



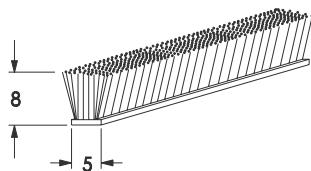
ARR569
Arruela Lisa
Ø 4,3 x Ø 9mm
Aço Inox



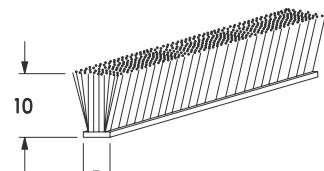
NYL042
Botão Tampa furo
Nylon Preto ou Branco

**FIT206**

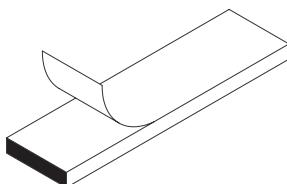
Fita Vedadora 5 x 6mm
Preta

**FIT212**

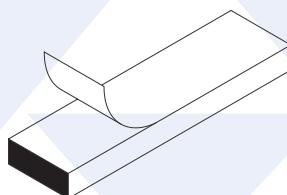
Fita Vedadora 5 x 8mm
Preta

**FIT214**

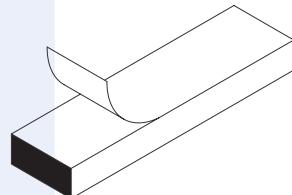
Fita Vedadora 5 x 10mm
Preta

**GUA172**

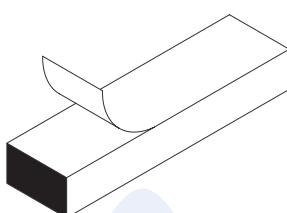
Guarn. Ades. Esponjosa
11mm x 1,8mm
Preta

**GUA171**

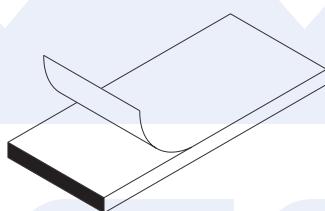
Guarn. Ades. Esponjosa
11mm x 3,2mm
Preta

**GUA258**

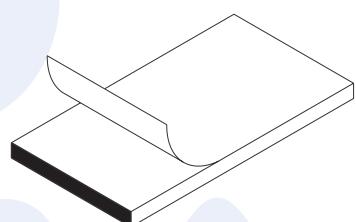
Guarn. Ades. Esponjosa
11mm x 4,8mm
Preta

**GUA157**

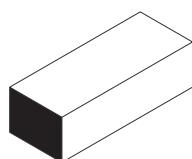
Guarn. Ades. Esponjosa
11mm x 6,4mm
Preta

**GUA228**

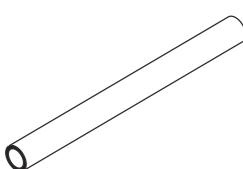
Guarn. Adesiva Esponjosa
17,5mm x 1,81mm
Preta

**GUA282**

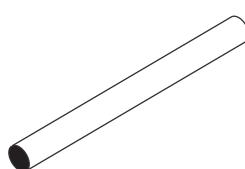
Guarn. Adesiva Esponjosa
22mm x 2,1mm
Preta

**GUA393**

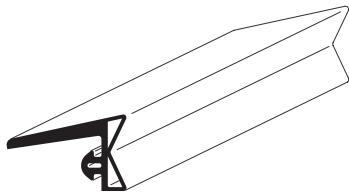
Calço de Apoio do Vidro
8mm x 6mm x 20mm
EPDM Preto

**GUA006**

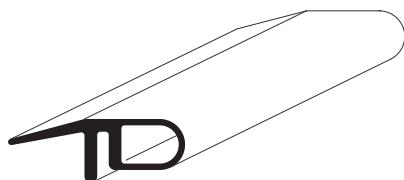
Vedaçāo do Engate
Ø 5mm
EPDM Preto

**GUA397**

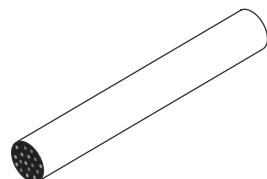
Fixação Tela Mosquiteira
Ø 5mm
EPDM Preto

**GUA320**

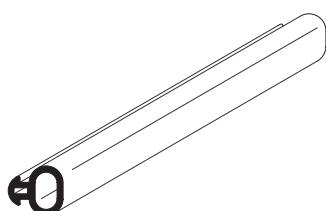
Guarnição
do Contramarco
EPDM Preto

**GUA329**

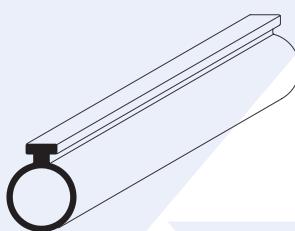
Guarnição Inferior
EPDM Preto

**GUA314**

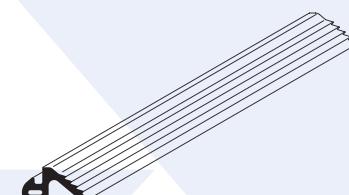
Proteção para canal
do Contramarco Ø 6mm
Tarucel Ciza

**GUA396**

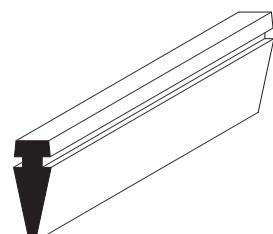
Guarn. do Marco
Porta de Giro
EPDM Preto

**GUA007**

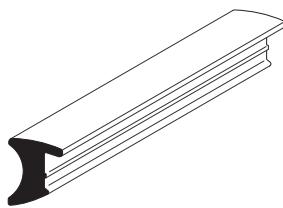
Guarnição
da Pingadeira
EPDM Preto

**GUA239**

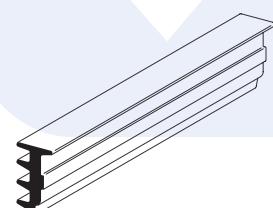
Guarnição do Marco
EPDM Preto

**GUA392**

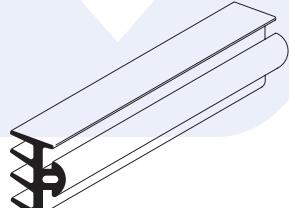
Vedaçao de Porta
EPDM Preto

**GUA039**

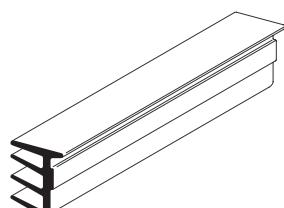
Guarnição Cunha
EPDM Preto

**GUA259**

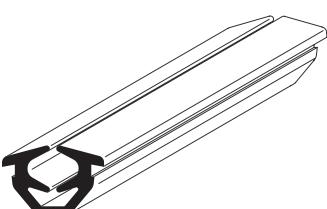
Guarnição do Vidro
EPDM Preto

**GUA399**

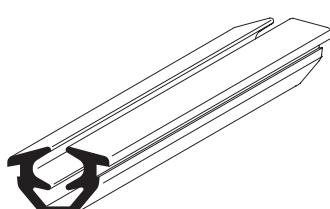
Guarnição do Vidro
EPDM Preto

**GUA256**

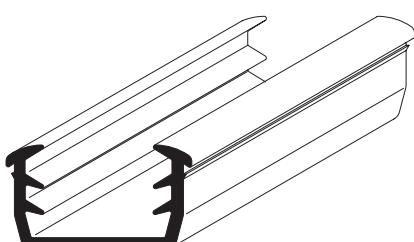
Guarnição do Vidro
EPDM Preto

**GUA385**

Guarnição para Vidro
de 3mm e 4mm
EPDM Preto

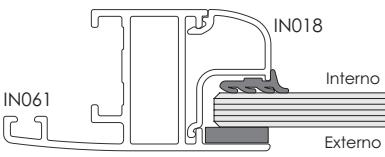
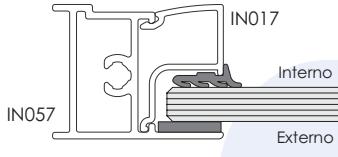
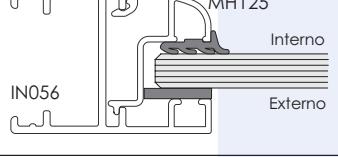
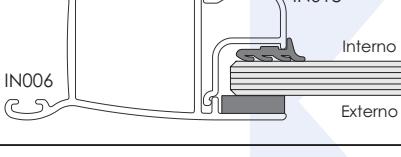
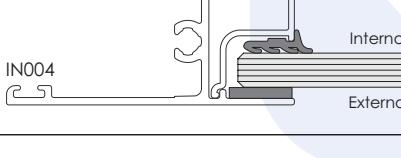
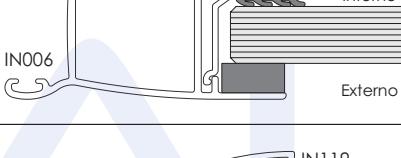
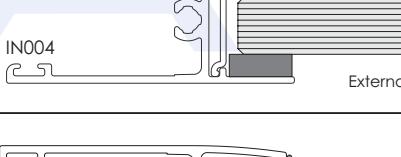
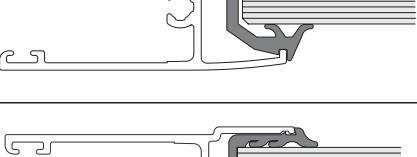
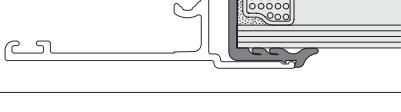
**GUA386**

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
 IN061 IN018 Interno Externo	3	GUA256	GUA157
	4	GUA256	GUA157
	5	GUA256	GUA258
	6	GUA259	GUA157
 IN057 IN017 Interno Externo	3	GUA256	GUA258
	4	GUA256	GUA258
	5	GUA256	GUA171
	6	GUA259	GUA157
 IN056 MH125 Interno Externo	3	GUA256	GUA258
	4	GUA256	GUA258
	5	GUA256	GUA171
	6	GUA259	GUA171
 IN006 IN018 Interno Externo	4	GUA256	GUA157
	5	GUA256	GUA258
	6	GUA259	GUA258
 IN004 IN017 Interno Externo	4	GUA256	GUA258
	5	GUA256	GUA171
	6	GUA259	GUA171
 IN006 IN120 Interno Externo	10	GUA256	GUA157
 IN004 IN119 Interno Externo	10	GUA256	GUA258
 IN028	4	GUA385	- X -
	5	GUA386	- X -
	6	GUA386	- X -
 IN128	18	GUA398	- X -

Os capítulos referentes a

7 *inova***Usinagens****8** *inova***Instruções de montagem****9** *inova***Desenhos de montagem**

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

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