



# *Safe***Glass**

Alas 95 - F.100  
*guarda-corpos em vidro*

LOU / ALU

# SafeGlass

F100

## guarda-corpos



### Perfil F.100. 003

NP 4491 : 2009 Guardas para edifícios  
Características dimensionais e métodos de ensaio



#### Boletim de ensaio nº OEF 006/12 Organismo notificado nº2211

Vidro temperado laminado 8.8.4  
Espessura 17,52mm  
Dimensão: 2500 x 1100mm

#### Força estática horizontal

Força de serviço : 1,0 kN/m  
Força de segurança : 1,5 kN/m

APTO para locais de actividade:

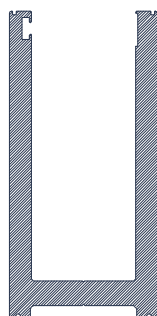
- RESIDENCIAL
- PRESTAÇÃO DE SERVIÇO
- ACOLHIMENTO PUBLICO

Calços e cunhas em EPDM com elevada dureza 75/80 Shore A  
Opção de calços e cunhas em nylon (\*)  
Capeamento com perfil ref. F.100.002  
Admite vidros com espessura de 13,52mm, 17,52mm e 21,52mm  
Vedantes em SEBS



### Perfil F.100.004

NP 4491:2009 Guardas para edifícios  
Características dimensionais e métodos de ensaio



#### Boletim de ensaio nºOEF 011/16 Organismo notificado nº 2211

Vidro temperado laminado 12.12.4  
Espessura 25,52mm  
Dimensão: 2500 x 1200mm

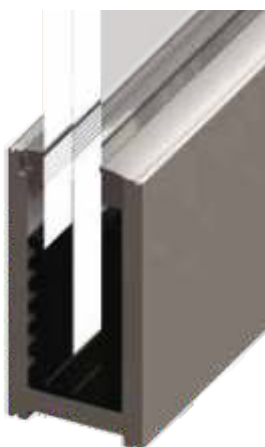
#### Força estática horizontal

Força de serviço : 3,0 kN/m  
Força de segurança : 4,5 kN/m

APTO para locais de actividade:

- ACOLHIMENTO PUBLICO
- ACOLHIMENTO MULTIDÕES

Calço em nylon e afinador Extrusal exclusivo  
Capeamento com perfil ref. F.100.005  
Admite vidros com espessuras de 21.52mm e 25.52mm  
Vedantes em SEBS



### Perfil F.100.006

NP 4491 : 2209 Guardas para edifícios  
Características dimensionais e métodos de ensaio



#### Boletim de ensaio nº OEF 022/17 Organismo notificado nº 2211

Vidro temperado laminado 12.12.4  
Espessura 25,52mm  
Dimensão: 2500 x 1800mm

#### Força estática

Força de serviço: 1,0 kN/m  
Força de segurança: 1,5 kN/m

APTO para locais de actividade:

- RESIDENCIAL
- PRESTAÇÃO DE SERVIÇO
- ACOLHIMENTO PUBLICO

Calço em nylon com afinador Extrusal exclusivo  
Fixação ajustável, perfil ref. F.100.007  
Admite vidros com 21.52mm e 25.52mm de espessura  
Vedantes em SEBS



### ENSAYO DE ACCIONES SOBRE BARANDILLAS Y ELEMENTOS DIVISORIOS



**PETICIONARIO**  
**Applicant:** ALAS IBERIA, S.L.  
 Avda Laviana 5/N  
 Ciaño, Asturias

**PRODUCTO**  
**Product:** Barandilla vidrio con perfil de aluminio

**MODELO**  
**Referencia:** ALAS INFINITY - Ensayo 2A

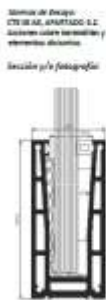
**DIMENSIONES**  
**Dimensiones:** 1000 x 56 x 122

**MATERIAL**  
**Material:** Aluminio

**ACRISTALAMIENTO**  
**Glasing element:** Vidrio templado 1000 x 1082 mm 8 + 8,4

**FECHAS DE ENSAYO**  
**Date/s of test:** 08.07.2019

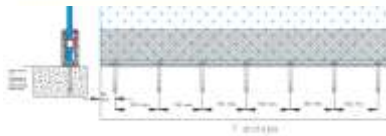
**FECHA DE EMISIÓN**  
**Date of issue:** 17.07.2019



#### RESULTADOS

Result:

Clasificación	Categoría de uso	
1,6 kN/m	A1-A2-C1-C2-C3-C4-D1-D2-E-F-G1-G2	CUMPLE



*[Signature]*  
**Luis García Viguera**  
 Director Técnico Departamento  
 Department Director

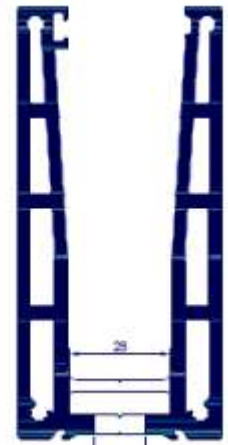
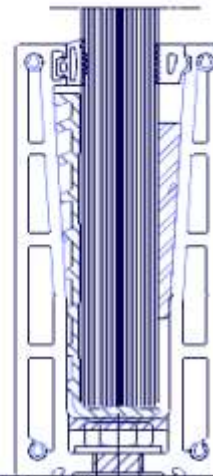
**GARCIA VIGUERA**  
 LUIS - 165379250

Formato digitalizado por GARCIA VIGUERA LUIS - 165379250 Fecha: 2019.07.17 07:24:34 +0200'

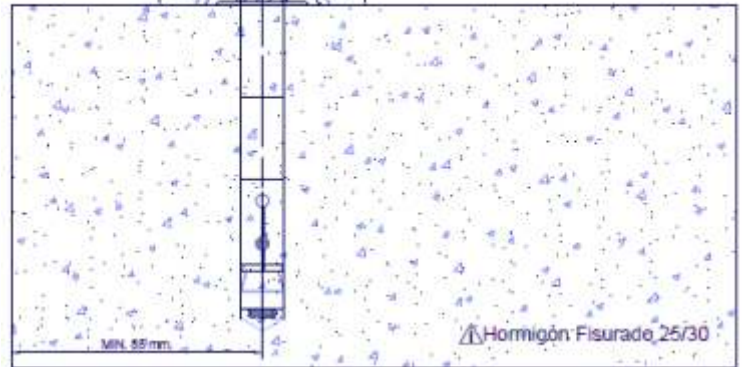
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PT19-0182/ Documento Nº 247999

GENSATEC, S.L.U. P.O. San Roque 24, San Roque nº 4-6, 28370 San Roque (Sevilla) T. 941 230 488 www.gensatec.com



Mecanizado.



### ENSAYO DE ACCIONES SOBRE BARANDILLAS Y ELEMENTOS DIVISORIOS



**PETICIONARIO**  
**Applicant:** ALAS IBERIA, S.L.  
 Avda Laviana 5/N  
 Ciaño, Asturias

**PRODUCTO**  
**Product:** Barandilla vidrio con perfil de aluminio

**MODELO**  
**Referencia:** ALAS INFINITY - Ensayo 1B

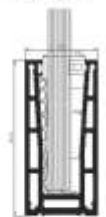
**DIMENSIONES**  
**Dimensiones:** 1000 x 56 x 122

**MATERIAL**  
**Material:** Aluminio

**ACRISTALAMIENTO**  
**Glasing element:** Vidrio templado 1000 x 1204 mm 8 + 8,4

**FECHAS DE ENSAYO**  
**Date/s of test:** 08.07.2019

**FECHA DE EMISIÓN**  
**Date of issue:** 17.07.2019



#### RESULTADOS

Result:

Clasificación	Categoría de uso	
1,6 kN/m	A1-A2-C1-C2-C3-C4-D1-D2-E-F-G1-G2	CUMPLE



*[Signature]*  
**Luis García Viguera**  
 Director Técnico Departamento  
 Department Director

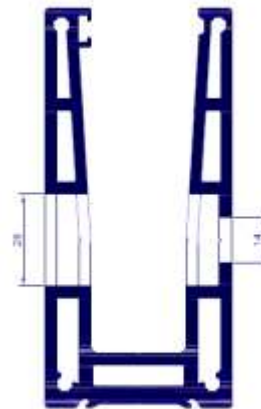
**GARCIA VIGUERA**  
 LUIS - 165379250

Formato digitalizado por GARCIA VIGUERA LUIS - 165379250 Fecha: 2019.07.17 07:24:34 +0200'

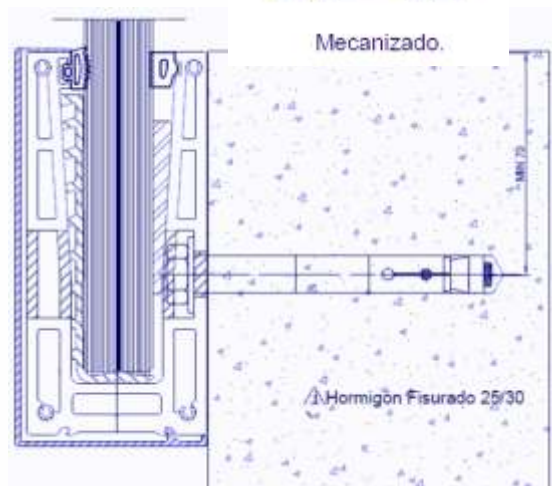
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MV71216/ Documento Nº 247998

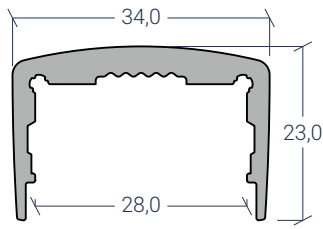
GENSATEC, S.L.U. P.O. San Roque 24, San Roque nº 4-6, 28370 San Roque (Sevilla) T. 941 230 488 www.gensatec.com



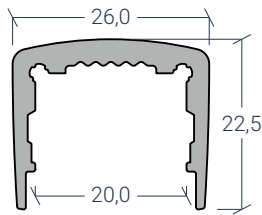
Mecanizado.



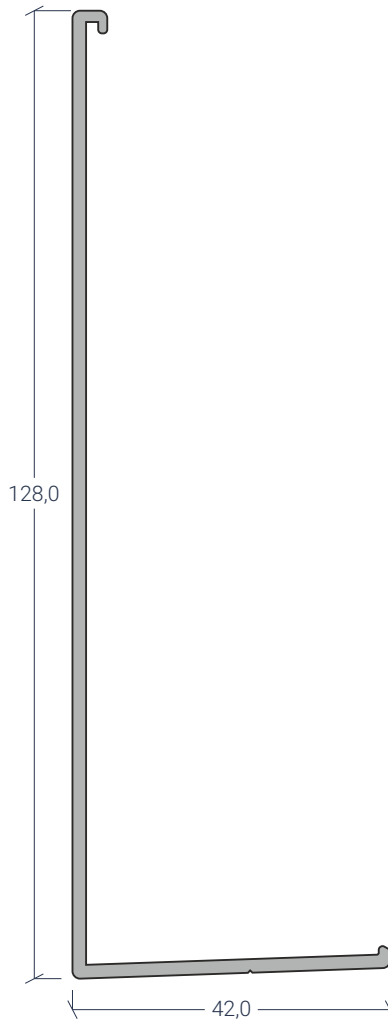
*guarda-corpos - F100*



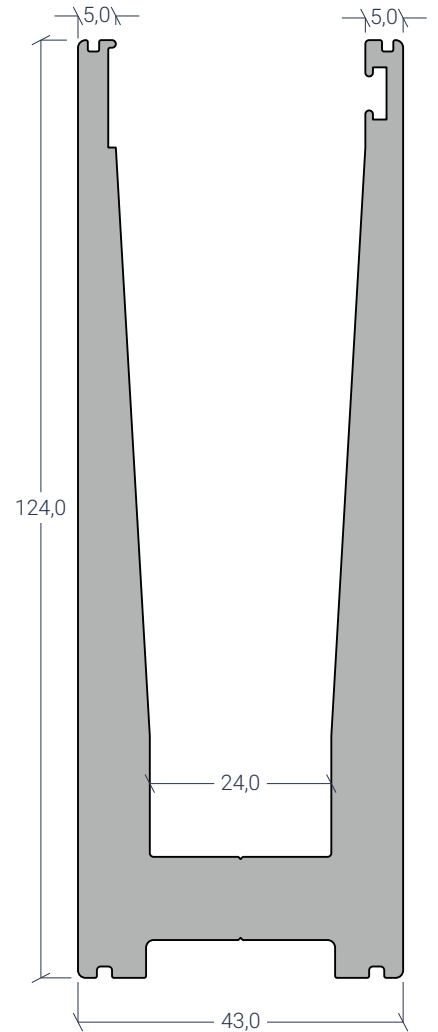
**F.100.009**



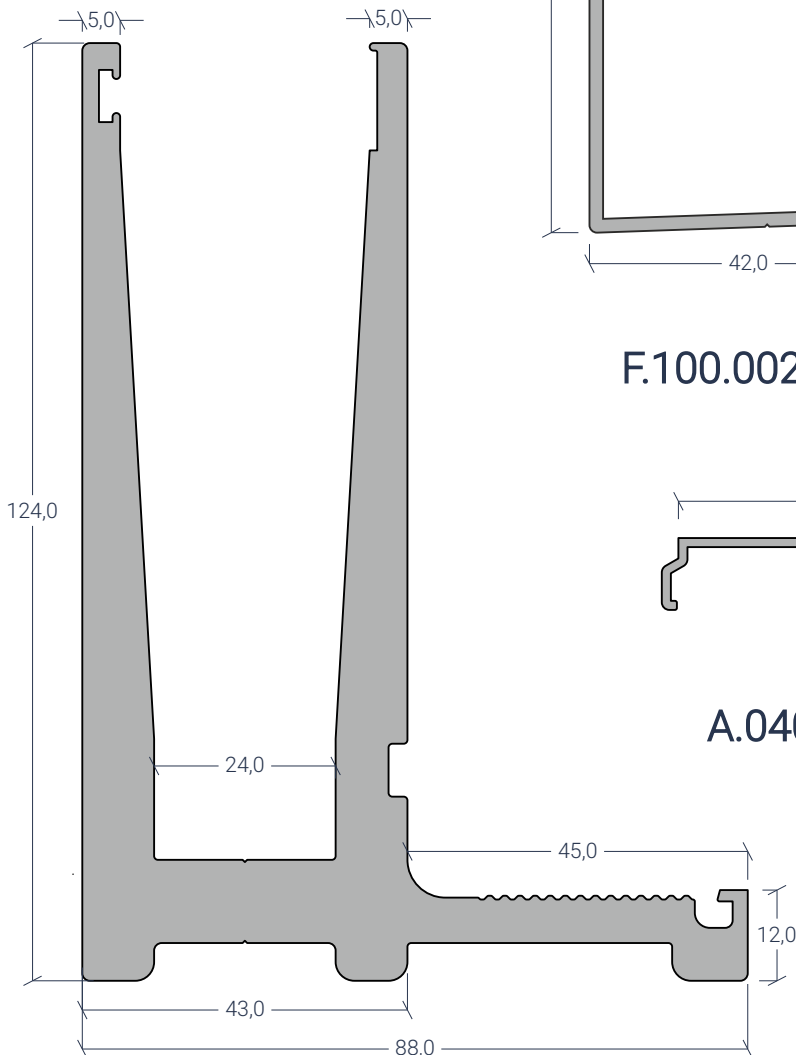
**F.100.008**



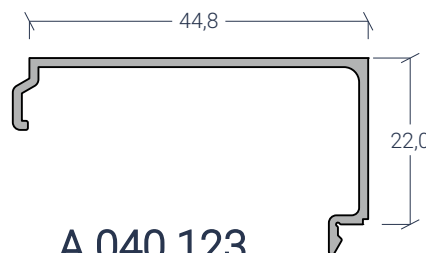
**F.100.002**



**F.100.003**



**F.100.010**



**A.040.123**

**X.55.0083**  
Bucha Inox M10x120  
G4.340



Aplicar de 200 em 200mm

**X.55.0080**  
Perno Fixaç. inox 100mm  
G30.62



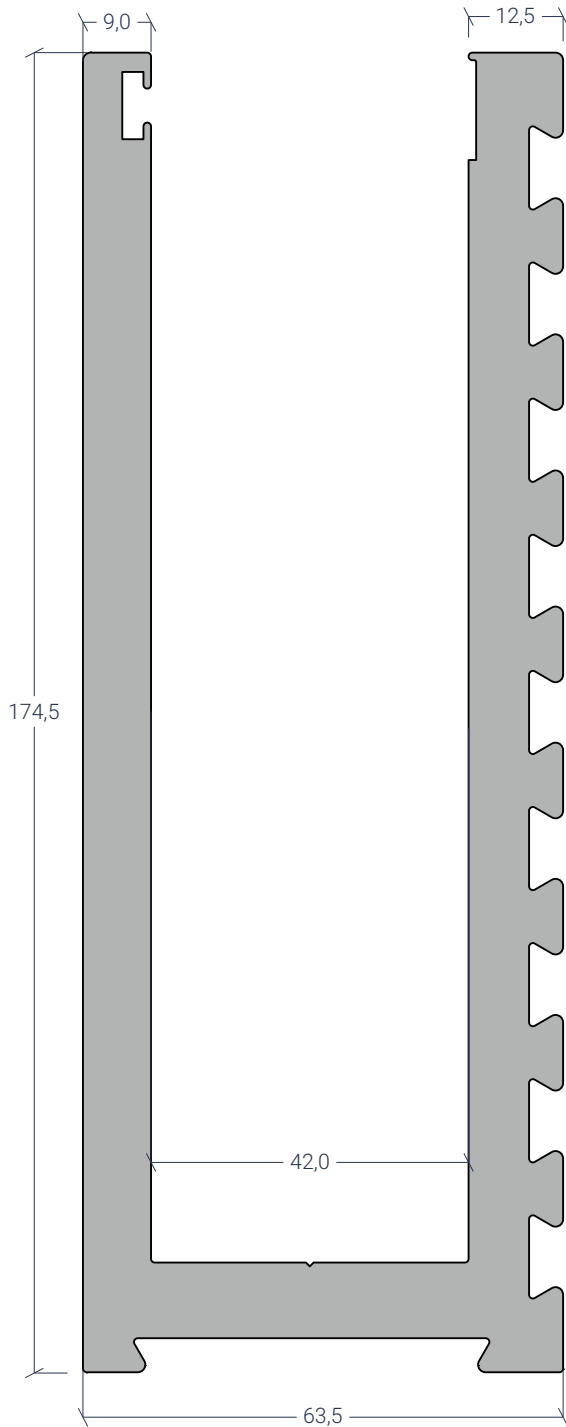
P/Aplic c/  
Bucha Química

Aplicar de 200 em 200mm

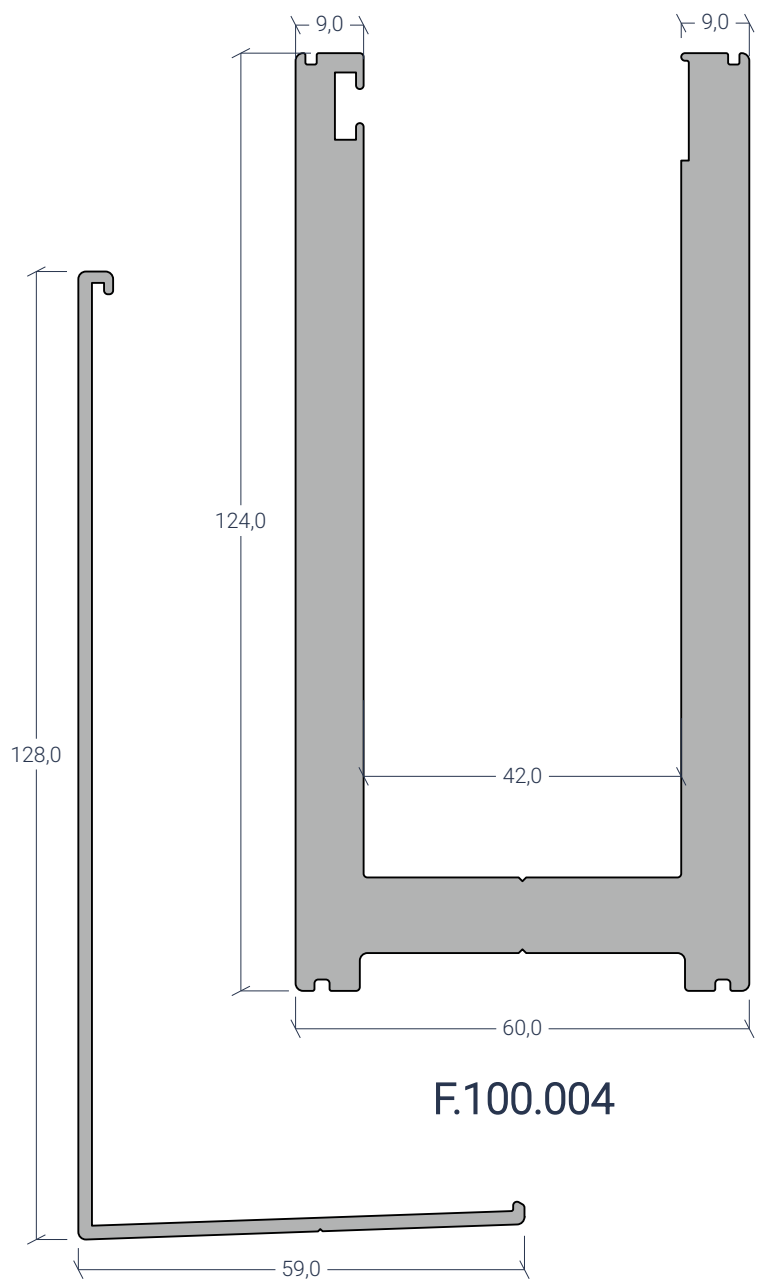
**X.55.0034**  
Bucha met. M8x130  
G19.402



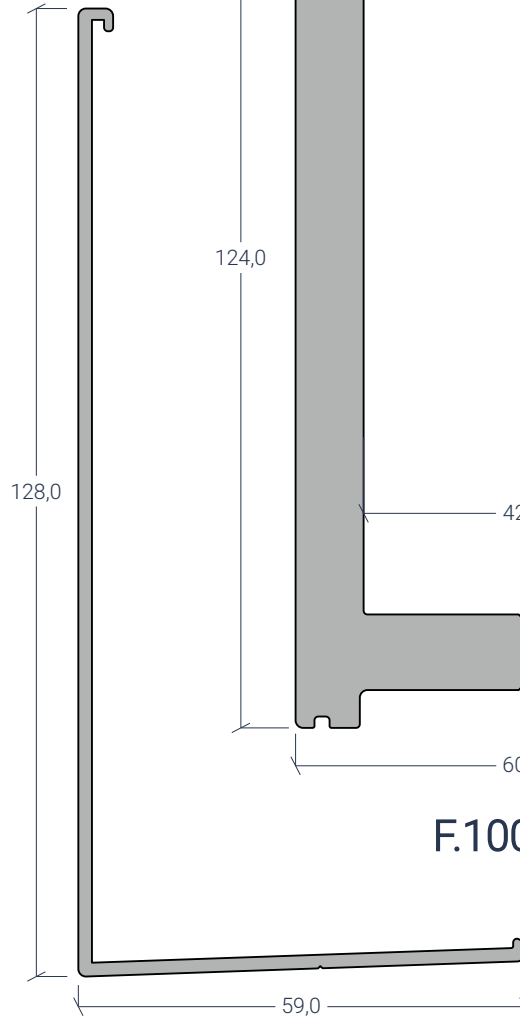
Aplicar de 200 em 200mm



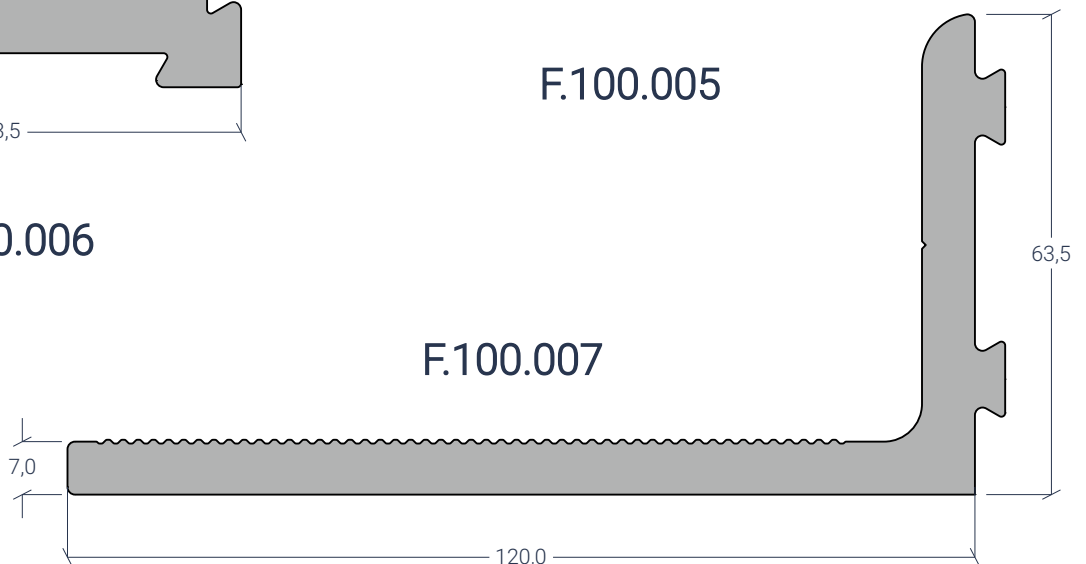
**F.100.006**



**F.100.004**



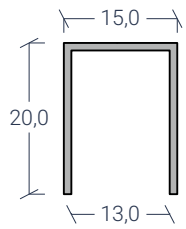
**F.100.005**



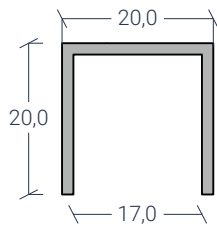
**F.100.007**

**X.55.0084**  
 Fixador F.100.006 G30.79  
 Alumínio

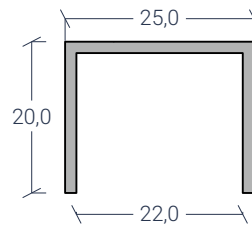
Aplicar de 400 em 400mm



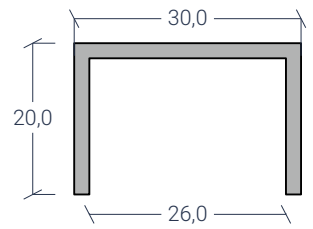
**U.15x20x1**



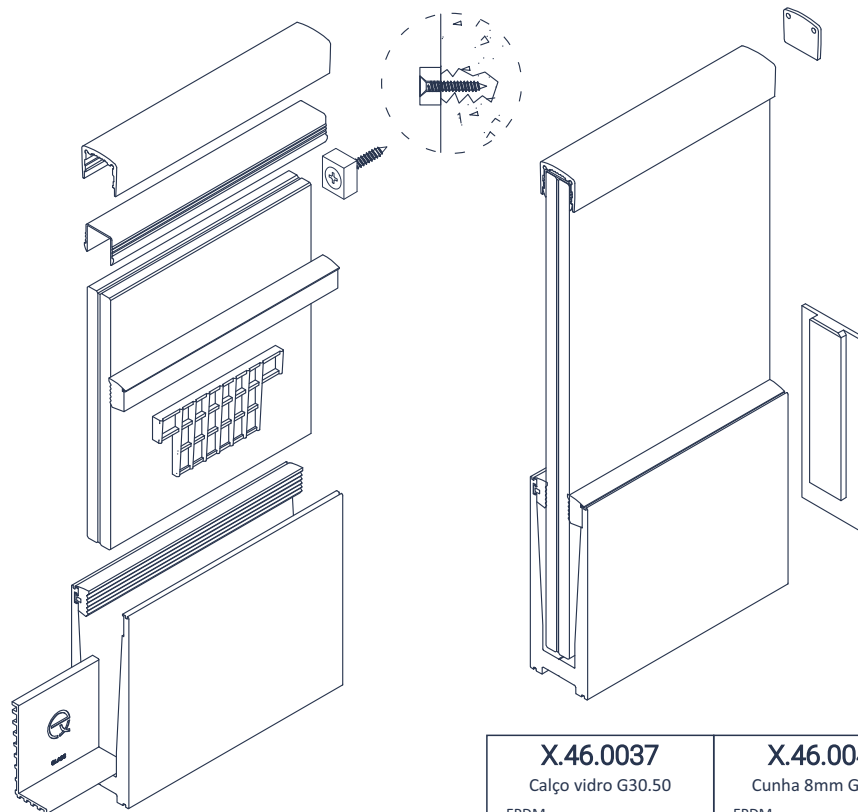
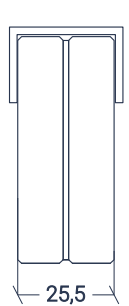
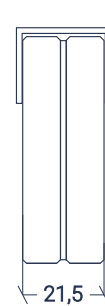
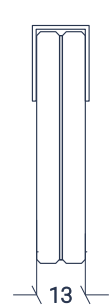
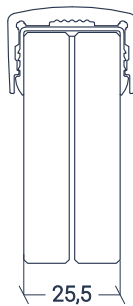
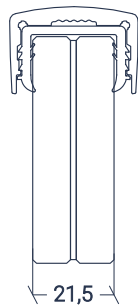
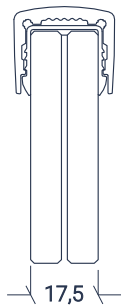
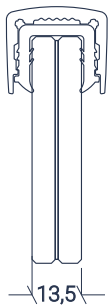
**U.20x20x1.5**

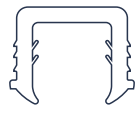



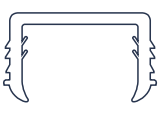
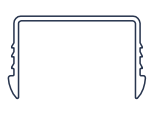
**U.25x20x1.5**



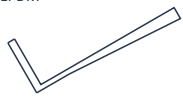
**U.30x20x2**



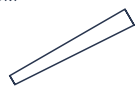
<p><b>X.44.0059</b> Vedante vidro 13mm G1.137</p>  <p>p/ F.100.008</p>	<p><b>X.44.0060</b> Vedante vidro 18mm G1.72</p>  <p>p/ F.100.008</p>
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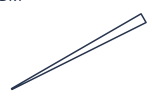
<p><b>X.44.0061</b> Vedante vidro 21mm G1.134</p>  <p>p/ F.100.009</p>	<p><b>X.44.0062</b> Vedante vidro 25mm G1.135</p>  <p>p/ F.100.009</p>
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<p><b>X.56.0073</b> Topo F.100.008 G30.64</p>  <p>Alumínio lacado/anodizado</p>	<p><b>X.56.0074</b> Topo F.100.009 G30.65</p>  <p>Alumínio lacado/anodizado</p>
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<p><b>X.46.0037</b> Calço vidro G30.50 EPDM</p>  <p>p/ F.100.003/010</p>
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<p><b>X.46.0044</b> Cunha 8mm G30.57 EPDM</p>  <p>p/ F.100.003/010</p>
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<p><b>X.46.0038</b> Cunha 4mm G30.51 EPDM</p>  <p>p/ F.100.003/010</p>
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<p><b>X.46.0042</b> Cunha 1mm G30.55 EPDM</p>  <p>p/ F.100.003/010</p>
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<p><b>X.59.0062</b> Fixad. Lateral 12mm G30.58 Alumínio</p> 
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<p><b>X.59.0063</b> Fixad. Lateral 16mm G30.59 Alumínio</p> 
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<p><b>X.59.0064</b> Fixad. Lateral 21mm G30.60 Alumínio</p> 
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<p><b>X.59.0203</b> Fixad. Lateral 25mm G30.73 Alumínio</p> 
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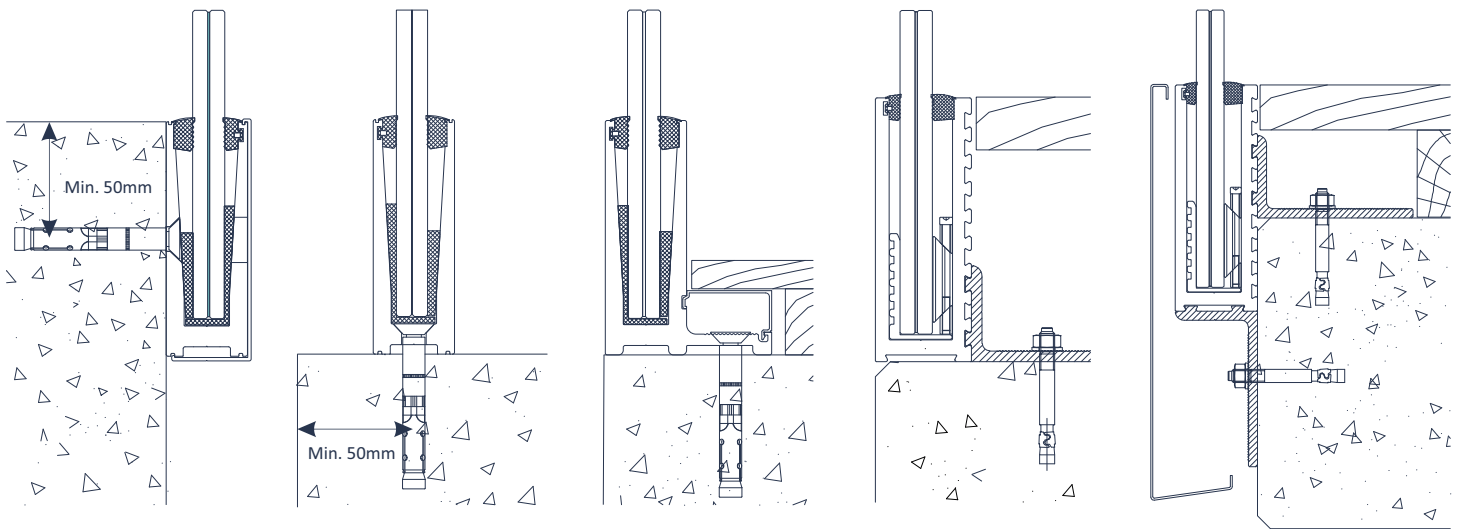
<p><b>X.56.0072</b> Topo F.100.004 G30.74</p>  <p>Alumínio lacado/anodizado</p>
--

<p><b>X.56.0043</b> Topo F.100.003 G30.61</p>  <p>Alumínio lacado/anodizado</p>
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Aplicação em obra:

guarda-corpos - F.100



## Vedantes e Calços (cunhas) a aplicar em função da espessura do vidro (\*)

Perfil	Acessório	Exterior	Interior - Espessura dos vidros com 4 películas PVB (mm)				
			13,52 (6+6.4)	17,52 (8+8.4)	19,52 (8+10.4)	21,52 (10+10.4)	25,52 (12+12.4)
F.100.003 e F.100.010	Vedante	X.46.0077	X.46.0043	X.46.0040	X.46.0039	X.46.0041	---
	Calço Nylon (*)	X.59.0172	X.59.0173	X.59.0174	X.59.0175	X.59.0175	---
F.100.004 e F.100.006	Calço EPDM (*)	X.46.0037	X.46.0044	X.46.0038	X.46.0038	X.46.0042	---
	Vedante	X.46.0077	---	---	---	X.46.0043	X.46.0040
	Calço	X.59.0201	---	---	---	X.59.0202	X.59.0202

(\*) - Vidro laminado temperado com 4 películas de PVB (4x0,38=1,52mm)

(\*) - A aplicar de 400 em 400 m (\*) - Em Alternativa ao calço de nylon (aplicar em contínuo)

**X.46.0077**  
Vedante exterior G30.63



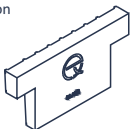
SEBS cinza/preto

**X.59.0172**  
Calço Vidro G30.75  
Nylon



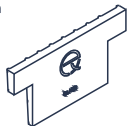
P/ F.100.003/010

**X.59.0173**  
Cunha 8mm G30.76  
nylon



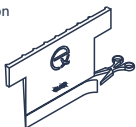
Para F.100.003/010

**X.59.0174**  
Cunha 6mm G30.80  
nylon



Para F.100.003/010

**X.59.0175**  
Cunha 2mm G30.78  
nylon



Para F.100.003/010

**X.59.0175**  
Cunha 1mm G30.78  
nylon



Para F.100.003/010

**X.46.0043**  
Ved. interior 14mm G30.56



SEBS cinza/preto

**X.46.0040**  
Ved. interior 10mm G30.53



SEBS cinza/preto

**X.46.0039**  
Ved. interior 8mm G30.52



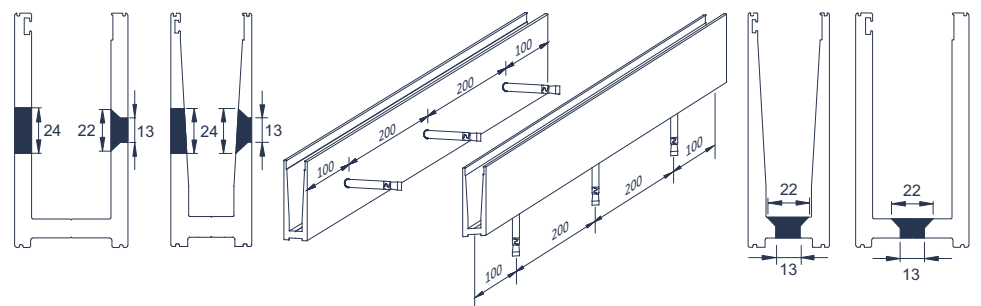
SEBS cinza/preto

**X.46.0041**  
Ved. interior 6mm G30.54



SEBS cinza/preto

## Furação, distância e diâmetro dos furos:

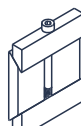


**X.59.0201**  
Calço vidro G30.71  
nylon



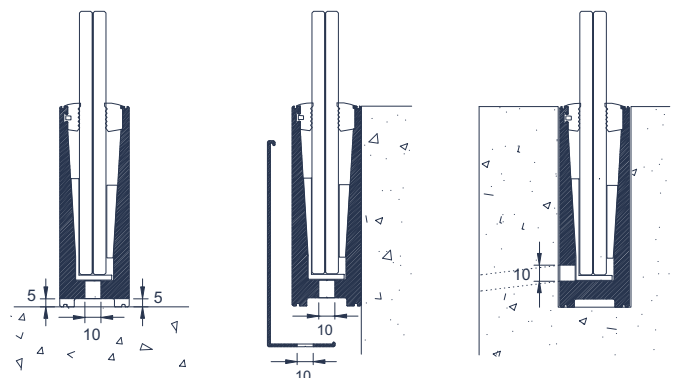
Para F.100.004/006

**X.59.0202**  
Cunha c/ afinação G30.72  
alumínio e nylon

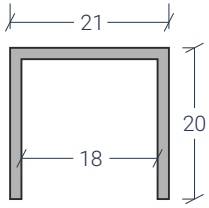


Para F.100.004/006

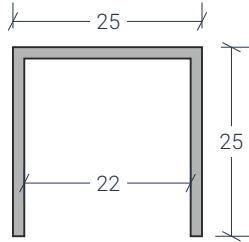
## Drenagem:



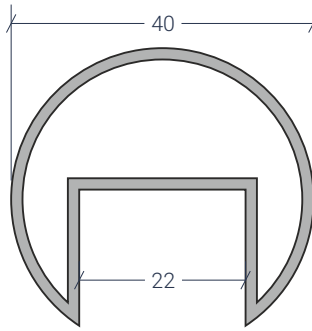
guarda-corpos - alas 95



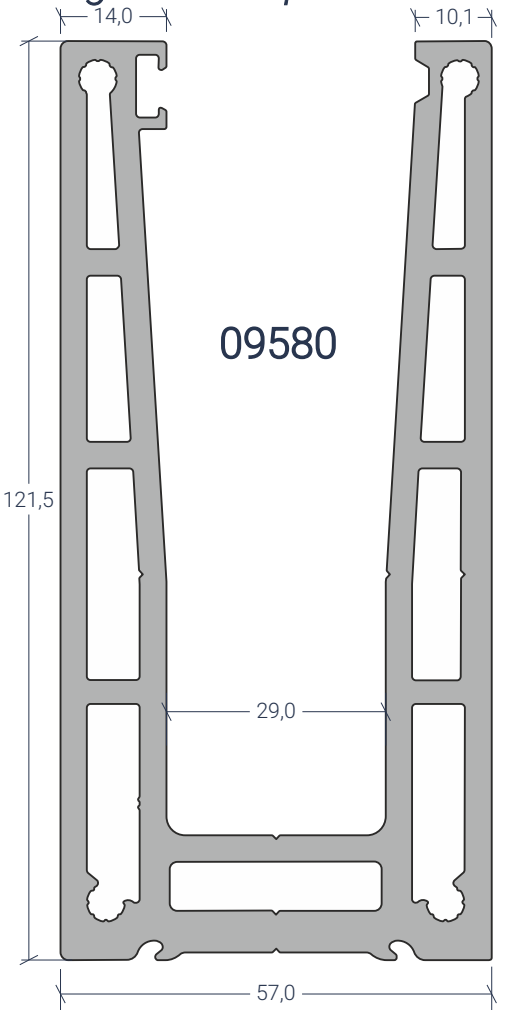
U.21x20x1,5



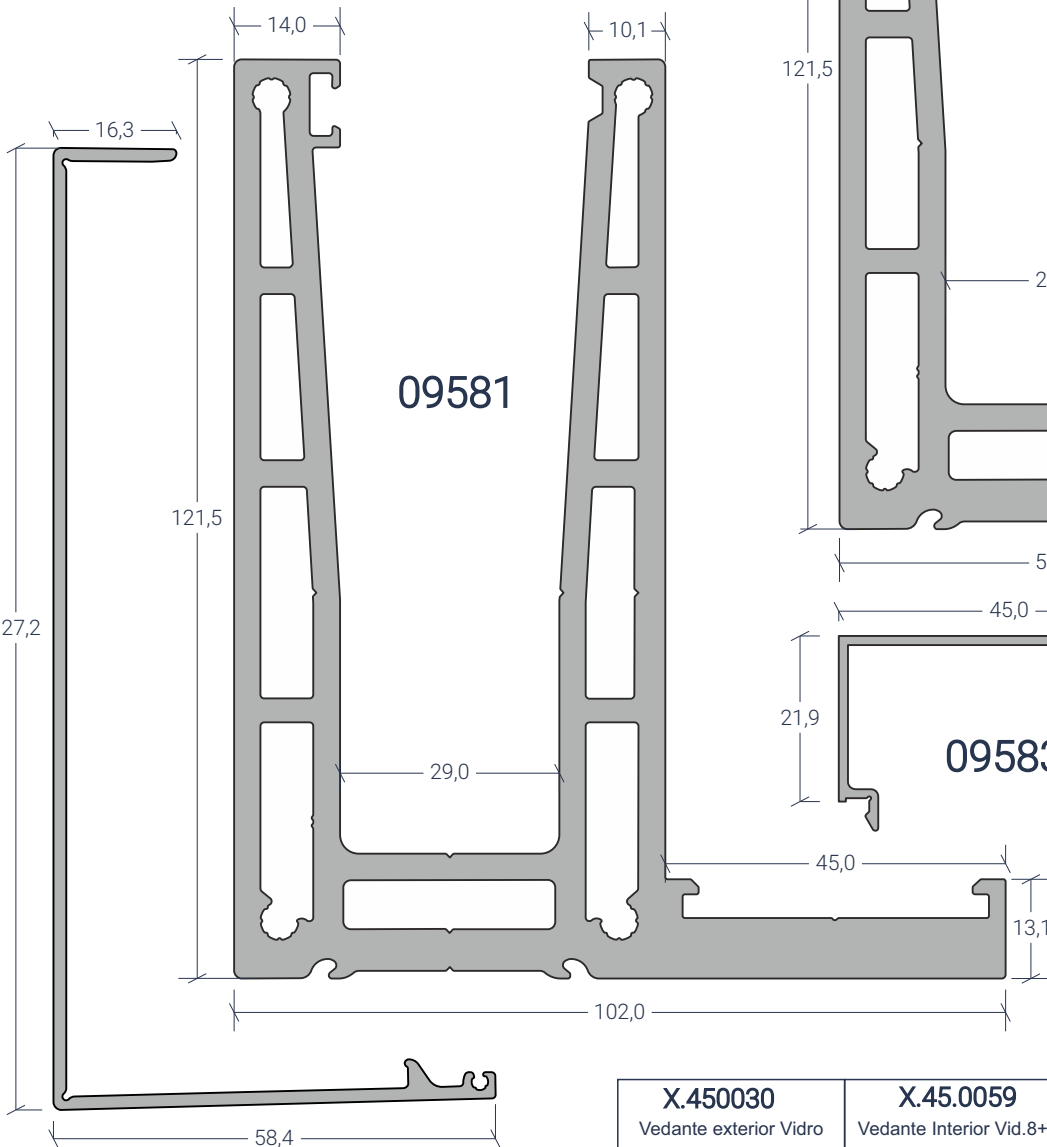
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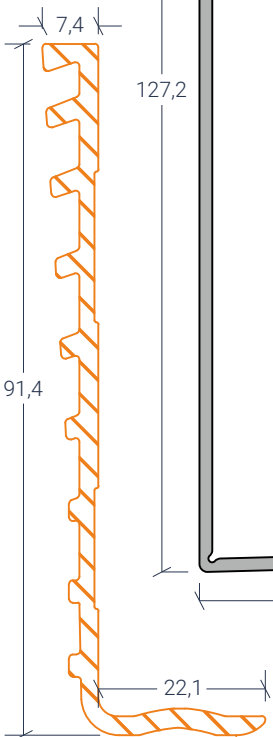
09586



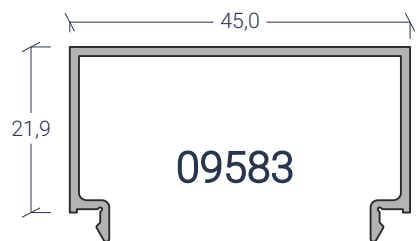
09580



09581



09582


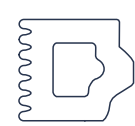
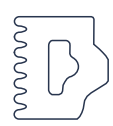
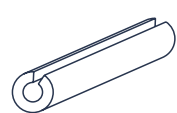
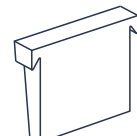
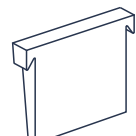
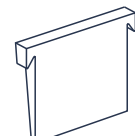
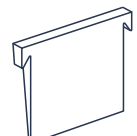


09583

09585



X.55.0085  
Bucha Metal M10x110

<p><b>X.450030</b> Vedante exterior Vidro</p>  <p>EPDM</p>	<p><b>X.45.0059</b> Vedante Interior Vid.8+8</p>  <p>EPDM</p>	<p><b>X.45.0060</b> Vedante Interior Vid.10+10</p>  <p>EPDM</p>		
<p><b>X.59.0200</b> Cavilha 5mm Alinhamento</p>  <p>Nylon</p>	<p><b>X.59.0196</b> Cunha Vidro 8+8.2</p>  <p>Nylon</p>	<p><b>X.59.0197</b> Cunha Vidro 8+8.4</p>  <p>Nylon</p>	<p><b>X.59.0198</b> Cunha Vidro 10+10.2</p>  <p>Nylon</p>	<p><b>X.59.0199</b> Cunha Vidro 10+10.4</p>  <p>Nylon</p>