

### Note tecniche

#### Destinazione d'uso

Il sistema di profilati **PBS78TH PLUS** consente la realizzazione di serramenti a battente ad elevate prestazioni di isolamento termico, destinati all'impiego in edilizia ed industriale. L'isolamento termico è ottenuto mediante barrette di poliammide, inserite mediante infilaggio e rullatura meccanica in apposite sedi, che collegano tra loro i singoli profilati estrusi di lega di alluminio costituenti, rispettivamente, le parti interne ed esterne del serramento.

#### Caratteristiche generali

I serramenti sono realizzati utilizzando i suddetti profilati, assemblati con taglio a 45° mediante squadrette in lega di alluminio inserite all'interno delle tubolarità dei profilati.

Le tipologie dei serramenti che si possono ottenere con i profilati della serie **PBS78TH PLUS** sono innumerevoli. Tra le più tipiche applicazioni citiamo a titolo d'esempio le seguenti: finestra ad una o più ante apribili mediante rotazione intorno ad assi verticali laterali, finestra ad anta a "vasistas", apribile mediante rotazione attorno ad asse orizzontale, finestra ad anta ribalta, apribile mediante rotazione attorno ad asse verticale e orizzontale (oscillo-battente), portoncini complanari con apertura interna o esterna, bilici orizzontali e verticali, specchiature fisse, vetrine, etc.

Le principali caratteristiche dimensionali delle sezioni costituenti il sistema **PBS78TH PLUS** sono le seguenti:

• Telaio fisso	mm 70
• Anta finestra	mm 78
• Anta portoncino	mm 70
• Sovrapposizione del telaio fisso alla muratura	mm 27
• Altezza parete d'appoggio vetro	mm 22
• Massimo spessore vetro (o pannellatura)	mm 50

I vetri vengono bloccati con fermavetro a scatto.

Le sedi di alloggiamento degli accessori hanno dimensioni standard conformi a quelle previste per la camera Europea.

La tenuta all'aria e all'acqua è ottenuta mediante guarnizione centrale a giunto aperto. La guarnizione di battuta parapolvere e antirumore è inserita nell'apposita cava dell'aletta interna dell'anta.

#### Caratteristiche dei profilati

I profilati sono estrusi in lega EN AW-6060 allo stato di fornitura T5. Il peso specifico di ciascun articolo della serie, espresso in g/m, è quello teorico e potrà variare in funzione delle tolleranze dimensionali, conformi a quanto previsto dalla norma EN 12020 – 2.

#### Taglio dei profilati

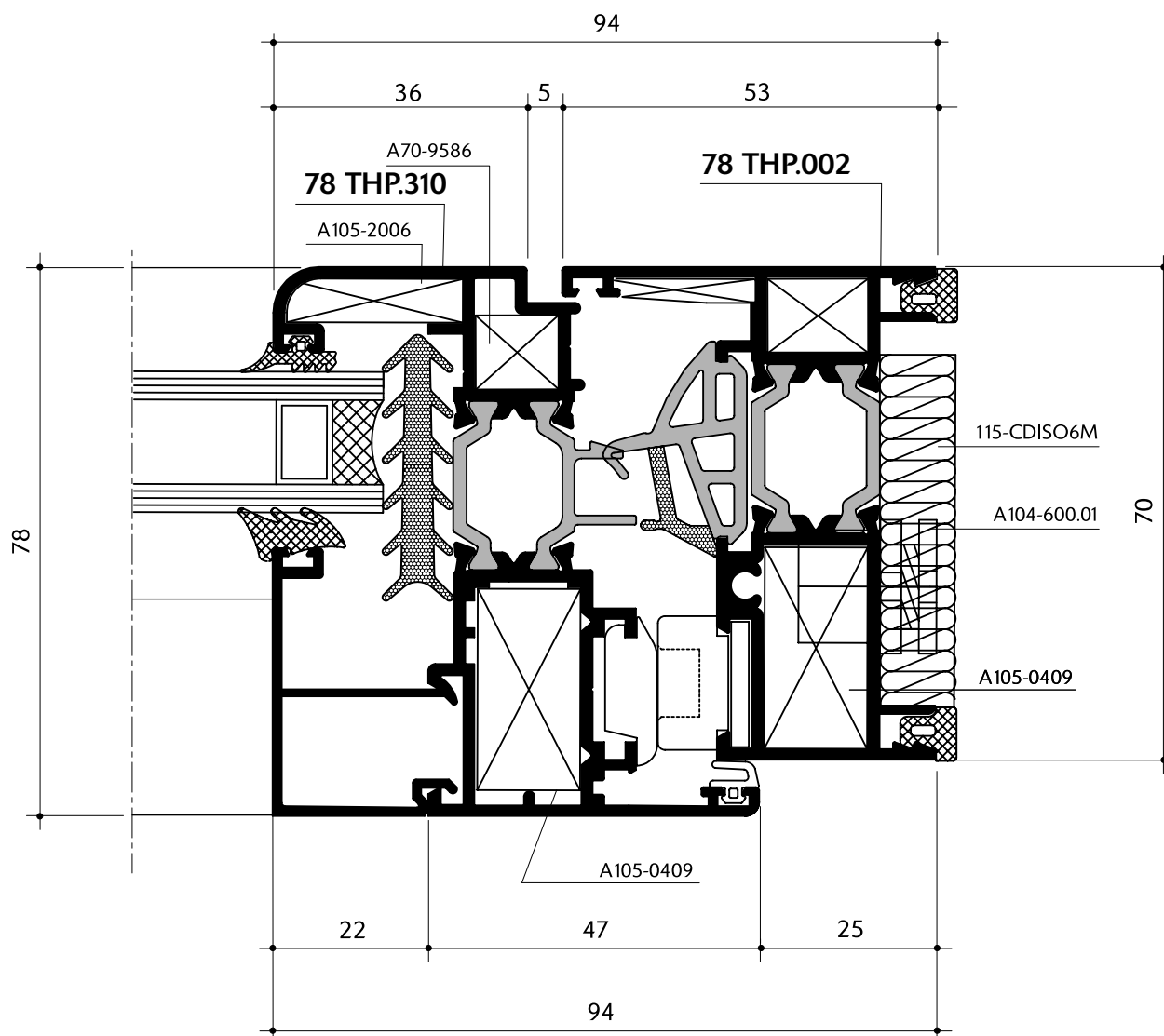
Il presente catalogo riporta le distinte di taglio e gli schemi di lavorazione dei profilati. Le dimensioni riportate sono quelle teoriche; nella buona pratica devono essere effettuati idonei arrotondamenti conseguenti alla tecnica ed alle attrezzature di officina utilizzate per il taglio dei profilati.

**Si raccomanda in ogni caso, prima di procedere con la produzione di serie è necessario effettuare delle campionature di prova.**

#### Finiture superficiali

A garanzia di maggiore qualità estetica e di resistenza agli agenti esterni, i profilati devono essere trattati superficialmente presso aziende di ossidazione anodica e/o di verniciatura, rispettivamente a marchio QUALANOD e QUALICOAT.

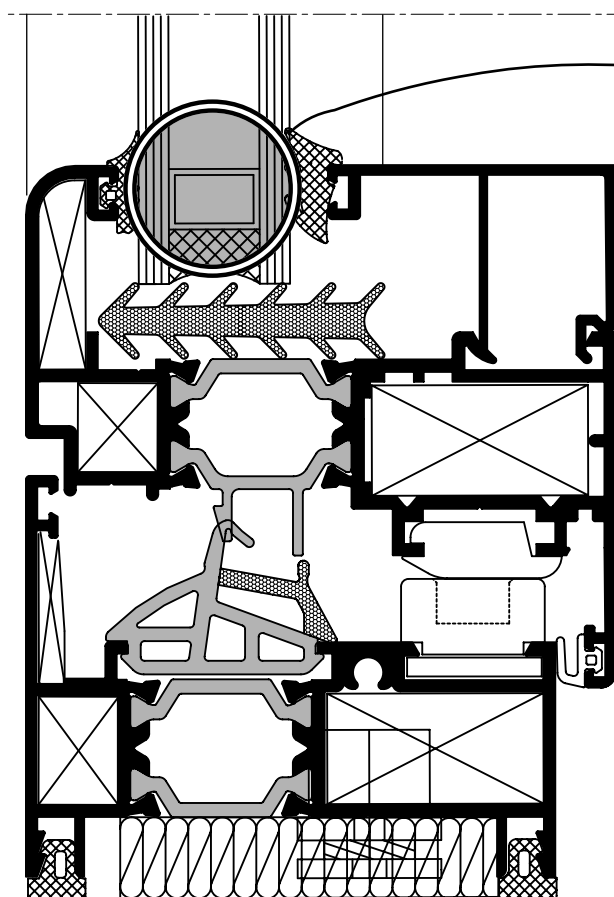
**Misura trasmittanza termica**



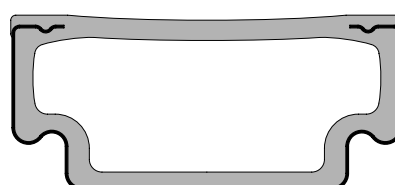
Sezione del campione in prova

Norme di riferimento	Prova n°
<b>UNI EN ISO 10077-2:2004</b>	<b>IRcCOS/MI 0047BIS/RP/09 del 26.05.2009</b>
<b>Uf 2,27 W/m²K.</b>	

**Valori  $\Psi$  bordo vetro certificati da IRcCOS**



**particolare ingrandito distanziale vetro  
(bordo caldo)  
della Technoform Glass Insulation GmbH**



 polipropilene  $\lambda$  0,22 W/m K

 acciaio inox  $\lambda$  25 W/m K

**IRcCos N° rapporto: 0029/RP/09 del 12/02/2009**

Vetro	3-16-3	4-16-4	4/4-16-4	4/4-16-3/3
Ug	1,1	1,1	1,1	1,1
$\Psi$	0,05	0,06	0,07	0,06

### Riepilogo limiti di trasmittanza termica dei serramenti

D.Lgs. n° 311 del 29/12/2006 e successive modifiche*	
Zona climatica	Uw dal 1 gennaio 2008
A	4,6
B	3
C	2,6
D	2,4
E	2,2
F	2

Limiti di trasmittanza termica per accedere alle detrazioni del 55%*	
Uw fino al 31 dicembre 2009	Uw dal 1 gennaio 2010
4,6	3,7
3	2,4
2,6	2,1
2,4	2
2,2	1,8
2	1,6

\*dati aggiornati al febbraio 2010

con la serie **PBS 78TH PLUS** è possibile accedere alla  
**detrazione del 55% dal 1° gennaio 2010** nella fascia E  
utilizzando vetri con **Ug 1,1** come dimostrato dal seguente calcolo:



Profilati Brescia Sistemi s.r.l.  
Via F. Petrarca, 26 - 25020 FLERO (BS) - Tel. 030 3583285 - Fax 030 3583590  
www.profilatibrescia.it - E-Mail: info@profilatibrescia.it

TECHNOFORM BAUTEC



### VERIFICA RISPETTO DECRETO LEGISLATIVO 311 DEL 29 DICEMBRE 2006

#### battente e libro

							Gradi giorno	Zona climatica		
Seleziona il comune		Brescia (BS)					2410	E		
Alt (mm)	Largh (mm)	N° ante	U <sub>f<sub>i</sub></sub>	U <sub>f<sub>c</sub></sub>	U <sub>f<sub>medio</sub></sub>	U <sub>g</sub>	Dimensione nodo anta / telaio (mm)	Dimensione nodo centrale (mm)	Combinazione vetro telaio	Intercalare del vetro isolante
1480	1230	2	2,27	2,31	2,28	1,10	94,0	143,0	Telaio in all. Taglio Termico + vetro basso emissivo	Intercalare caldo (warm edge): es. TGI
Ag	1,16									
Af	0,66									
Ψ immesso	0,06	Valori di PSI secondo ISO 10077-1: 2006 allegato E						PSI immesso manualmente		
Ig	6,966									
Af centrale	0.18									

dato da  
inserire

Periodo da verificare	gen 2008 - giugno 2008
Uw = 1,76	

VERIFICA Uw OK

VERIFICA Ug OK



Le prove di permeabilità all'aria, tenuta all'acqua e resistenza al vento sono state effettuate secondo la metodologia prevista rispettivamente dalle norme UNI EN 1026, UNI EN 1027 e UNI EN 12211. I risultati delle prove hanno consentito di classificare i serramenti testati in conformità con le norme UNI EN citate nella tabella seguente.

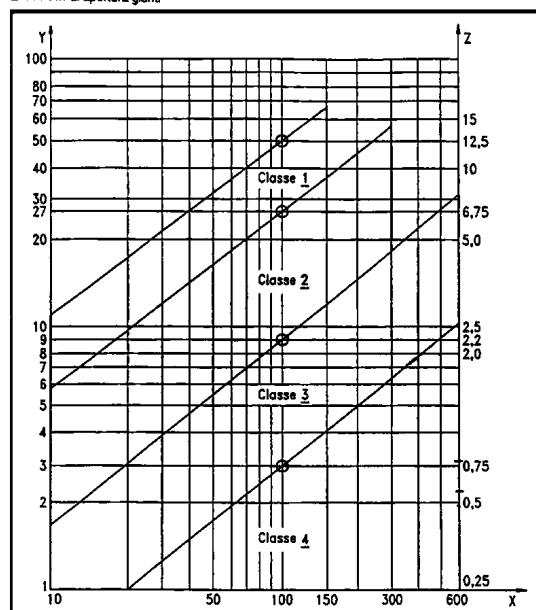
### RIEPILOGO NORME

#### Permeabilità all'aria secondo UNI EN 12207 (classificazione)

##### Classificazione

##### Legenda

X Pressione in Pa  
 Y  $m^3/h \cdot m^2$  dell'area totale  
 Z  $m^3/h \cdot m$  di apertura giunti



#### Tenuta all'acqua secondo UNI EN 12208 (classificazione)

Pressione (Pa)	Metodo di prova A	Metodo di prova B
0	1A	1B
50	2A	2B
100	3A	3B
150	4A	4B
200	5A	5B
250	6A	6B
300	7A	7B
450	8A	
600	9A	
>600	Exxx	

Per pressioni superiori a 600 Pa step successivi con cadenza di 150 Pa  
 A – prodotti pienamente esposti  
 B – prodotti parzialmente protetti

#### Resistenza al vento secondo UNI EN 12210 (classificazione)

##### Classificazione al carico del vento

classe	P1 (Pa)	P2 (Pa)	P3 (Pa)
0	Non sottoposto a prova		
1	400	200	600
2	800	400	1200
3	1200	600	1800
4	1600	800	2400
5	2000	1000	3000
Exxxx	xxxx		

I campioni sottoposti a prova con un carico di vento superiore a classe 5, vengono classificati Exxx dove xxx è la pressione di prova

##### Classificazione della freccia relativa frontale

La freccia relativa frontale dell'elemento più deformato del telaio, misurata ad una pressione di prova P1, deve essere classificata come indicato nella tabella seguente

Classe	Freccia relativa frontale
A	< 1/150
B	< 1/200
C	< 1/300

La classe finale è data dalla combinazione delle due tabelle come risulta nel seguito

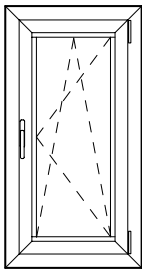
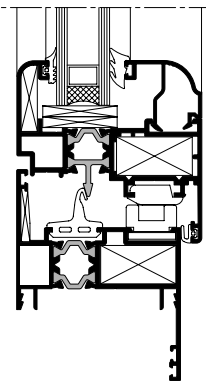
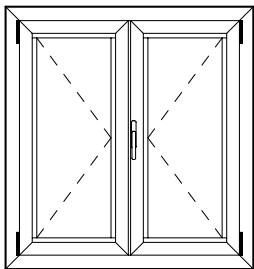
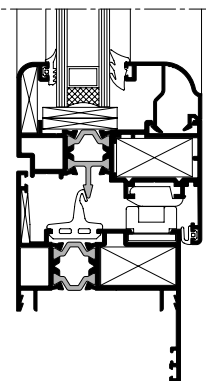
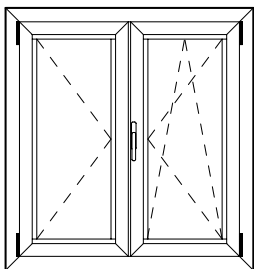
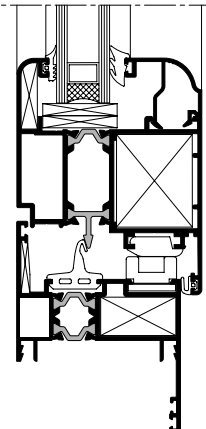
Classe di pressione vento	Freccia relativa frontale		
	A	B	C
1	A1	B1	C1
2	A2	B2	C2
3	A3	B3	C3
4	A4	B4	C4
5	A5	B5	C5
Exxxx	AExxxx	BExxxx	CExxxx

### RIEPILOGO NORME

Per il concetto di "similar design" riportato nella norma di prodotto UNI EN 14351-1, i risultati delle prove effettuate sulla serie PBS 70 TH possono essere estese anche alla serie PBS 78 TH PLUS, poichè migliorativa.

Pertanto riportiamo di seguito i valori dei certificati relativi alla tenuta aria, acqua e vento della serie PBS 70 TH

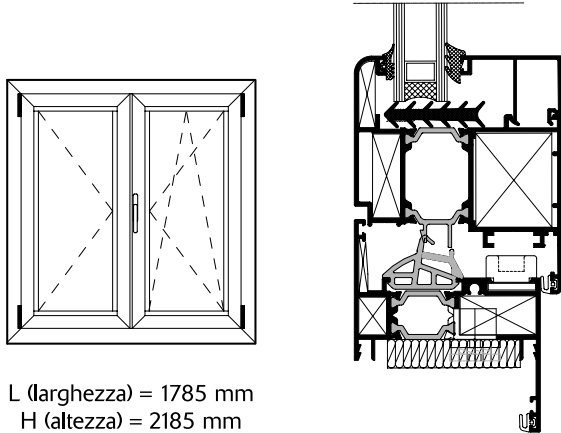
### RIEPILOGO PROVE SERIE PBS70TH

 <p>L (larghezza) = 883 mm H (altezza) = 1685 mm</p>		<p>Permeabilità all'aria</p> <p><b>CLASSE 4</b></p>	<p>Tenuta all'acqua</p> <p><b>E1050</b></p>	<p>Resistenza al vento</p> <p><b>C5</b></p>	<p>ITC (MI) N° rapporto</p> <p>3657/RP/03 08.09.2003</p>
 <p>L (larghezza) = 1185 mm H (altezza) = 1685 mm</p>		<p>Permeabilità all'aria</p> <p><b>CLASSE 4</b></p>	<p>Tenuta all'acqua</p> <p><b>E750</b></p>	<p>Resistenza al vento</p> <p><b>C5</b></p>	<p>ITC (MI) N° rapporto</p> <p>4297/RP/06 21.12.2006</p>
 <p>L (larghezza) = 1785 mm H (altezza) = 2185 mm</p>		<p>Permeabilità all'aria</p> <p><b>CLASSE 4</b></p>	<p>Tenuta all'acqua</p> <p><b>9A</b></p>	<p>Resistenza al vento</p> <p><b>C4</b></p>	<p>ITC (MI) N° rapporto</p> <p>4298/RP/06 21.12.2006</p>

Per ulteriore verifica e conferma di quanto affermato circa l'estendibilità delle prove effettuate sulla serie PBS 70 TH alla serie PBS 78 TH PLUS, abbiamo sottoposto a prova il campione a 2 ante con anta a ribalta delle dimensioni L (larghezza) = 1785 mm e H (altezza) 2185 mm realizzato con profilati della nuova serie; i risultati ottenuti sono quelli esposti di seguito.

Pertanto quanto affermato è avallato dai risultati ottenuti.

### RIEPILOGO PROVE SERIE PBS 78 TH PLUS

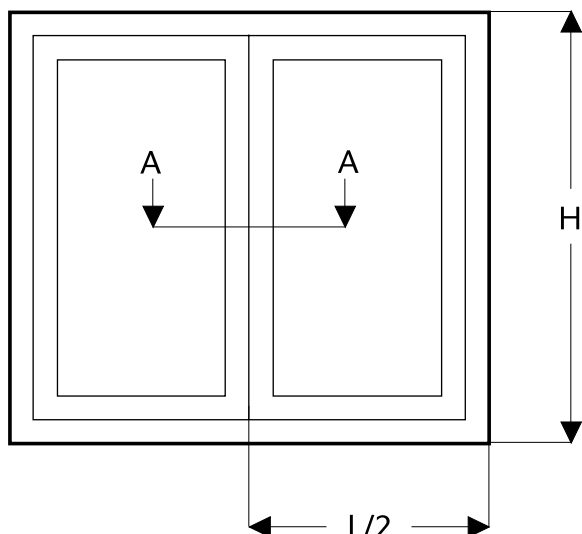
 <p>L (larghezza) = 1785 mm H (altezza) = 2185 mm</p>	<p>Permeabilità all'aria</p> <p><b>CLASSE 4</b></p>	<p>Tenuta all'acqua</p> <p><b>E750</b></p>	<p>Resistenza al vento</p> <p><b>C4</b></p>	<p>IRcCos N° rapporto</p> <p><b>1994-CPD RP0151 del 23/04/09</b></p>
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#### Note informative

Tutti i dati riportati in questo catalogo sono puramente indicativi, e non impegnativi, per la PROFILATI BRESCIA SISTEMI S.r.l. che ha altresì la facoltà di apportare sullo stesso qualsiasi modifica e aggiornamento che riterrà necessari.

I profilati della serie **PBS78TH PLUS** sono stati brevettati; come tali potranno essere realizzati e/o fatti realizzare solo ed esclusivamente dalla stessa società detentrica del brevetto.

A termini di legge è perciò vietata la riproduzione, anche parziale, se non esplicitamente autorizzata. Per la costruzione e la posa dei serramenti, realizzati con i profilati della serie **PBS78TH PLUS**, devono essere rispettate le normative specifiche vigenti nelle varie nazioni di utilizzo.



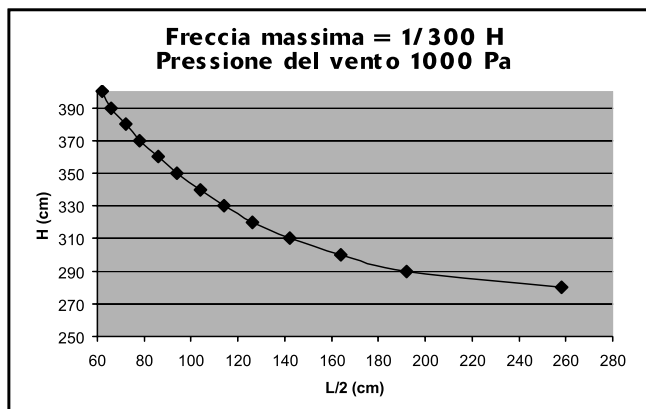
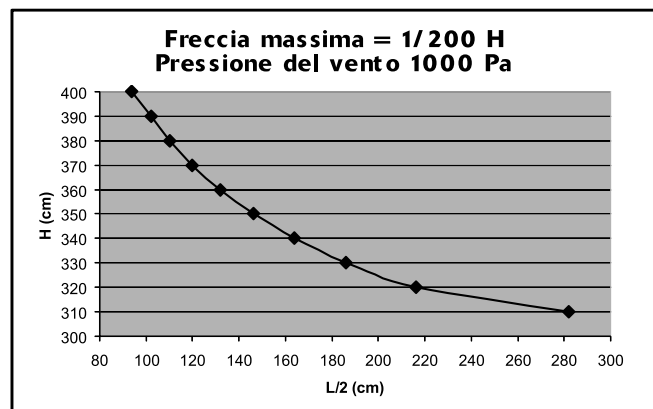
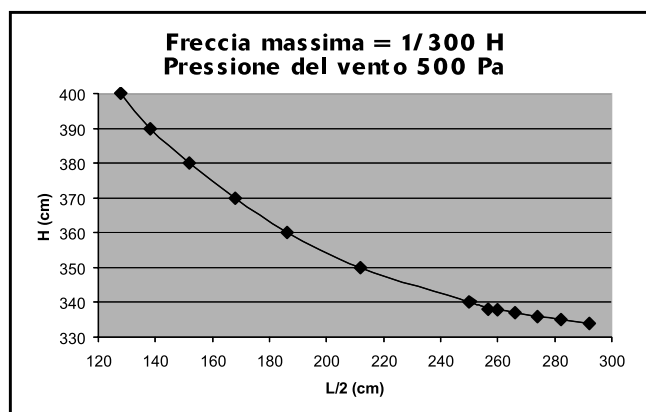
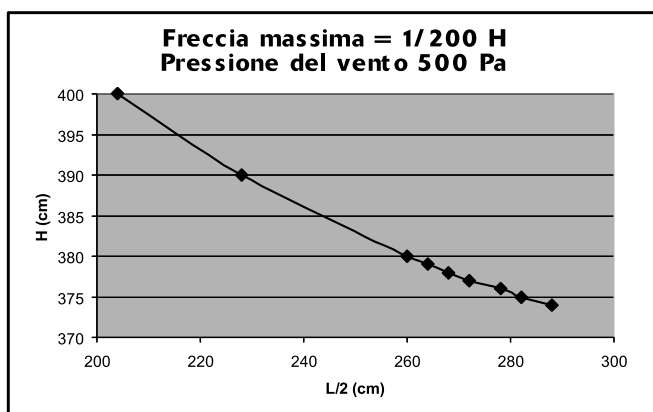
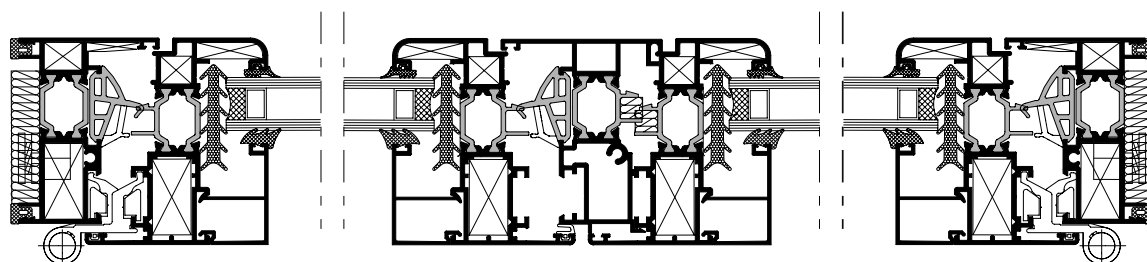
### Grafici dei limiti di impiego

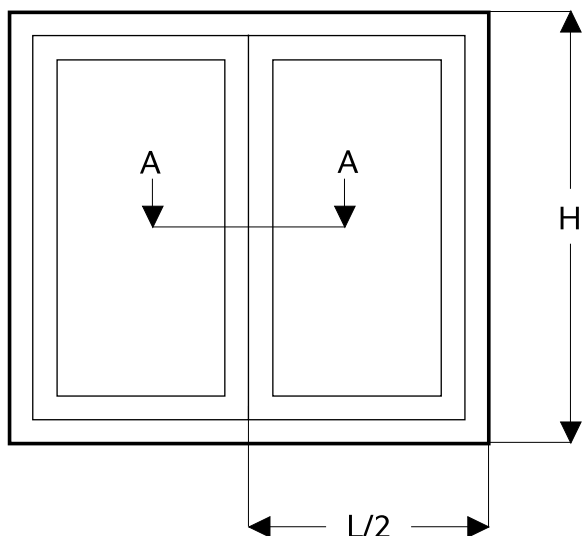
Dai grafici seguenti è possibile stabilire la quota  $L/2$ , vale a dire la larghezza dell'anta di un serramento a battente a due ante di uguali dimensioni, una volta che sia fissata l'altezza  $H$  e verificando che la freccia massima sia compatibile con la deformazione ammissibile per il vetro impiegato.

Sezione A-A

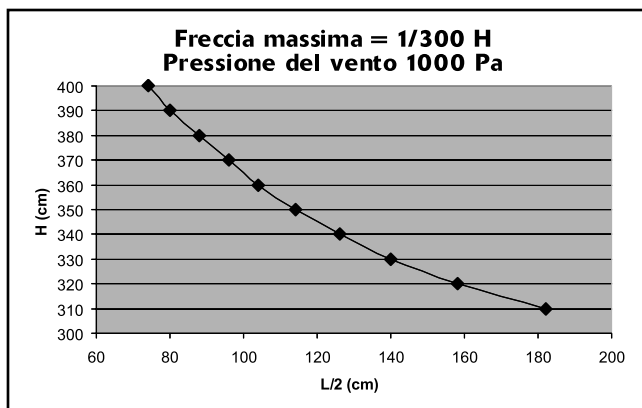
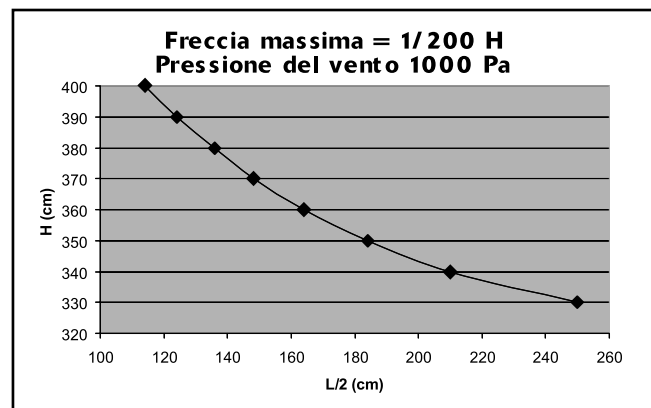
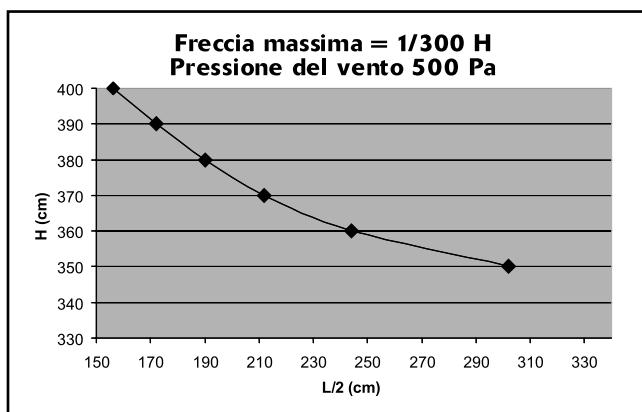
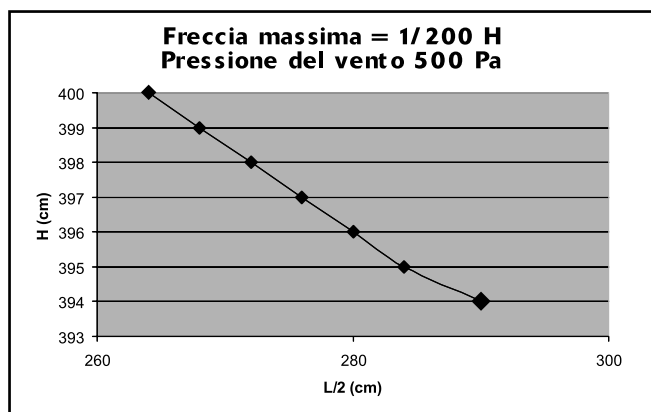
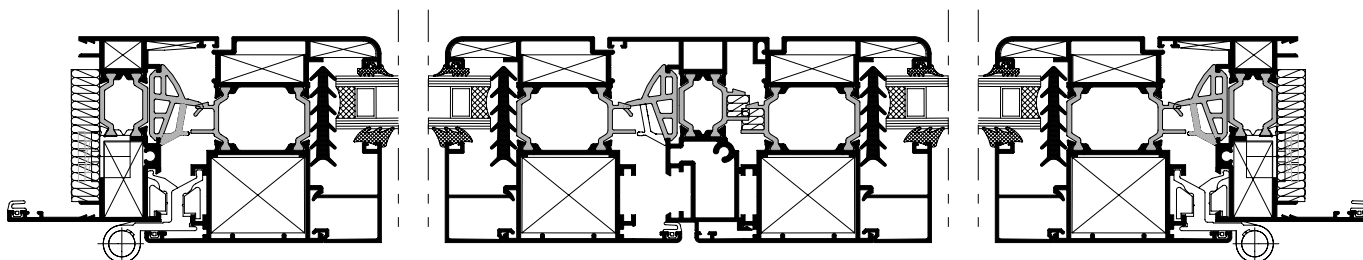
NODO CENTRALE

Momento d'inerzia totale rispetto all'asse neutro orizzontale della sezione = 1.089.000 mm<sup>4</sup>





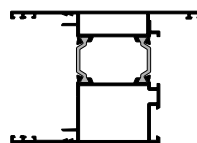
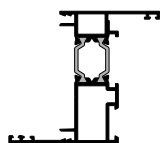
Sezione A-A  
 NODO CENTRALE  
 Momento d'inerzia totale rispetto all'asse neutro  
 orizzontale della sezione = 1.309.500 mm<sup>4</sup>



### 78 THP.001

Peso 1466 gr/m  
Jx 120565 mm<sup>4</sup>  
Jy 344488 mm<sup>4</sup>

**Telaio fisso "Z"**



### 78 THP.009

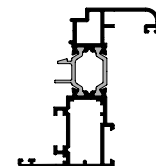
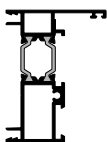
Peso 1973 gr/m  
Jx 394123 mm<sup>4</sup>  
Jy 492189 mm<sup>4</sup>

**Telaio soglia maggiorato**

### 78 THP.002

Peso 1363 gr/m  
Jx 60482 mm<sup>4</sup>  
Jy 278835 mm<sup>4</sup>

**Telaio fisso "L"**



### 78 THP.310

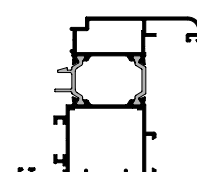
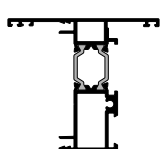
Peso 1530 gr/m  
Jx 99370 mm<sup>4</sup>  
Jy 392973 mm<sup>4</sup>

**Anta**

### 78 THP.003

Peso 1508 gr/m  
Jx 122710 mm<sup>4</sup>  
Jy 324233 mm<sup>4</sup>

**Telaio fisso "T"**



### 78 THP.311

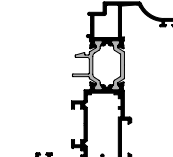
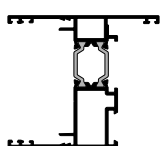
Peso 1869 gr/m  
Jx 266576 mm<sup>4</sup>  
Jy 503228 mm<sup>4</sup>

**Anta maggiorata**

### 78 THP.004

Peso 1611 gr/m  
Jx 170520 mm<sup>4</sup>  
Jy 401876 mm<sup>4</sup>

**Telaio "soglia"**



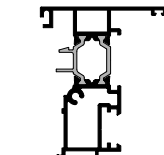
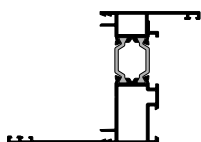
### 78 THP.350

Peso 1505 gr/m

**Anta sgusciata**

### 78 THP.005

Peso 1565 gr/m  
Jx 239681 mm<sup>4</sup>  
Jy 383443 mm<sup>4</sup>  
**Telaio fisso "Z" con aletta 50 mm**



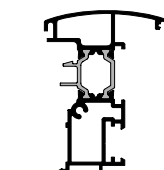
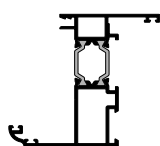
### 78 THP.314

Peso 1467 gr/m  
Jx 76212 mm<sup>4</sup>  
Jy 303056 mm<sup>4</sup>

**Riporto centrale**

### 78 THP.062

Peso 1473 gr/m  
Jx 1338836 mm<sup>4</sup>  
Jy 34085 mm<sup>4</sup>  
**Telio "Z" per falso da 60**



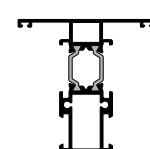
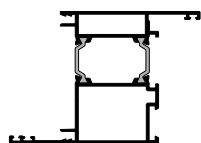
### 78 THP.345

Peso 1482 gr/m  
Jx 85596 mm<sup>4</sup>  
Jy 248577 mm<sup>4</sup>

**Riporto centrale arrotondato**

### 78 THP.006

Peso 1830 gr/m  
Jx 305791 mm<sup>4</sup>  
Jy 439308 mm<sup>4</sup>  
**Telaio fisso maggiorato "Z"**



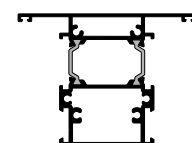
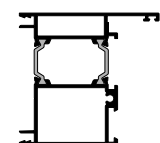
### 78 THP.015

Peso 1506 gr/m  
Jx 94679 mm<sup>4</sup>  
Jy 296804 mm<sup>4</sup>

**"T" piccolo**

### 78 THP.007

Peso 1730 gr/m  
Jx 207348 mm<sup>4</sup>  
Jy 372988 mm<sup>4</sup>  
**Telaio fisso maggiorato "L"**



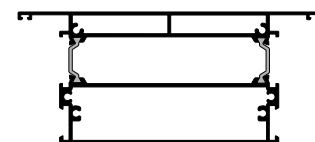
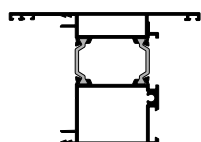
### 78 THP.016

Peso 2115 gr/m  
Jx 309115 mm<sup>4</sup>  
Jy 441231 mm<sup>4</sup>

**"T" maggiorato con doppi naselli**

### 78 THP.008

Peso 1873 gr/m  
Jx 313901 mm<sup>4</sup>  
Jy 417069 mm<sup>4</sup>  
**Telaio fisso maggiorato "T"**



### 78 THP.017

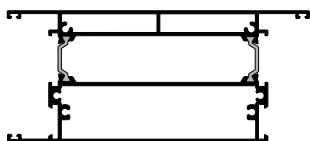
Peso 3327 gr/m  
Jx 2152931 mm<sup>4</sup>  
Jy 749001 mm<sup>4</sup>

**Fascia**

### 78 THP.018

Peso 3440 gr/m  
Jx 2359309 mm<sup>4</sup>  
Jy 808566 mm<sup>4</sup>

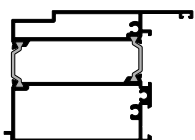
**Zoccolo**



### 78 THP.019

Peso 2272 gr/m  
Jx 475826 mm<sup>4</sup>  
Jy 590693 mm<sup>4</sup>

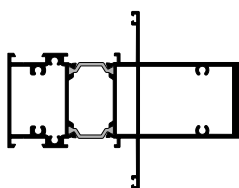
**Zoccolo riportato**



### 78 THP.020

Peso 3109 gr/m  
Jx 1700374 mm<sup>4</sup>  
Jy 405999 mm<sup>4</sup>

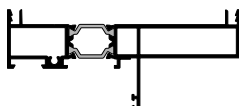
**Pilastrino**



### 78 THP.021

Peso 1905 gr/m  
Jx 966692 mm<sup>4</sup>  
Jy 74536 mm<sup>4</sup>

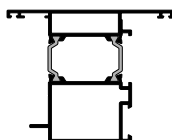
**Mezzo pilastrino**



### 78 THP.031

Peso 1696 gr/m  
Jx 232853 mm<sup>4</sup>  
Jy 369821 mm<sup>4</sup>

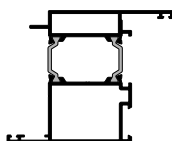
**Portoncino apertura esterna**



### 78 THP.032

Peso 1710 gr/m  
Jx 233034 mm<sup>4</sup>  
Jy 387707 mm<sup>4</sup>

**Portoncino apertura interna**



### 70.034

Peso 186 gr/m  
Jx 478 mm<sup>4</sup>  
Jy 4901 mm<sup>4</sup>

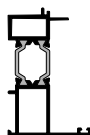
**Battuta riportata per portoncini**



### 78 THP.035

Peso 1108 gr/m  
Jx 39006 mm<sup>4</sup>  
Jy 194874 mm<sup>4</sup>

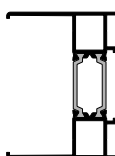
**Inversione di battuta per portoncini**



### 78 THP.037

Peso 1380 gr/m  
Jx 102356 mm<sup>4</sup>  
Jy 321928 mm<sup>4</sup>

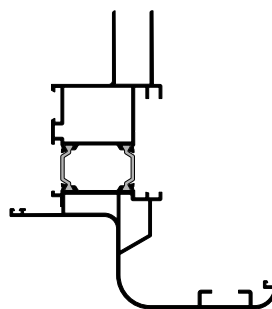
**"U" di compensazione**



### 78 THP.049

Peso 3092 gr/m  
Jx 1008532 mm<sup>4</sup>  
Jy 2231379 mm<sup>4</sup>

**Profilo per capannoni**



## Articoli SERIE PBS 60

### 60.023

Peso 740 gr/m  
Jx 14639 mm<sup>4</sup>  
Jy 237532 mm<sup>4</sup>

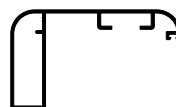
**Prolunga imbotte**



### 60.024

Peso 1004 gr/m  
Jx 100608 mm<sup>4</sup>  
Jy 296260 mm<sup>4</sup>

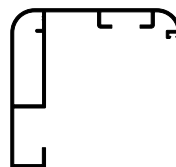
**Imbotte da 50 mm**



### 60.025

Peso 1226 gr/m  
Jx 314539 mm<sup>4</sup>  
Jy 346025 mm<sup>4</sup>

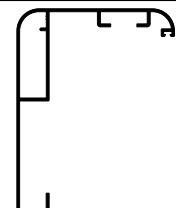
**Imbotte da 80 mm**



### 60.026

Peso 1347 gr/m  
Jx 651141 mm<sup>4</sup>  
Jy 375515 mm<sup>4</sup>

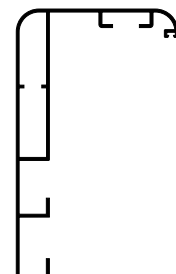
**Imbotte da 110 mm**



### 60.042

Peso 1922 gr/m  
Jx 438939 mm<sup>4</sup>  
Jy 1649050 mm<sup>4</sup>

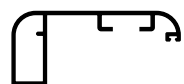
**Imbotte da 142 mm**



### 60.067

Peso 901 gr/m

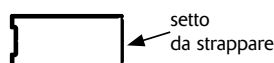
**Imbotte da 37,5 mm**



### 60.071

Peso 488 gr/m

**Profilo porta imbotte**



### 78 THP.046

Peso 1065 gr/m

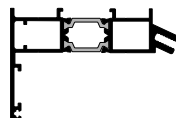
**Soglia ribassata**



### 78 THP.048

Peso 1594 gr/m

**"U" di compensazione**



### 70.9757

Peso 526 gr/m

**Finitura esterna  
per soglia ribassata**



### 70.9816

Peso 513 gr/m

**Profilo chiusura**

**"U" di compensazione 78 THP.048**



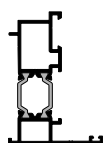
### 78 THP.039

Peso 1189 gr/m

Jx 48641 mm<sup>4</sup>

Jy 219558 mm<sup>4</sup>

**Inversione per anta  
apertura esterna 78 THP.313**



### 20.592

Peso 246 gr/m

**Scattino chiudigola per 70.9816**



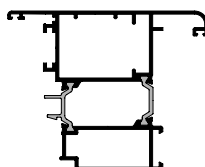
### 78 THP.313

Peso 2035 gr/m

Jx 374320 mm<sup>4</sup>

Jy 520503 mm<sup>4</sup>

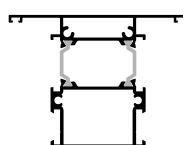
**Anta maggiorata apertura esterna**



### 78 THP.081

Peso 2015 gr/m

**"T" maggiorato**



### 70.10521

Peso 180 gr/m

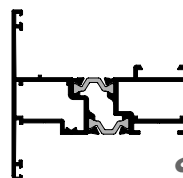
**Gocciolatoio**



### 78 TH.082

Peso 1460 gr/m

**Apertura per anta  
a sporgere**



SOLO A RICHIESTA

### 70.6007

Peso 369 gr/m

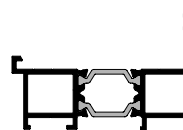
**Tenuta con spazzolino per porte**



### 78 THP.083

Peso 1216 gr/m

**Inversione per  
apertura sporgere**



SOLO A RICHIESTA

### 70.6008

Peso 358 gr/m

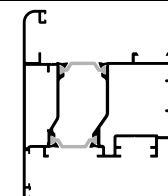
**Tenuta a battuta per porte**



### 78 TH.055

Peso 2089 gr/m

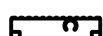
**Anta per bilico**



### 70.6010

Peso 443 gr/m

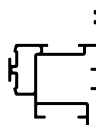
**Soglia porte**



### 78.9861

Peso 1066 gr/m

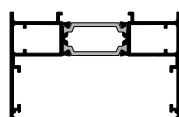
**Riporto per bilico**



### 78 THP.047

Peso 1689 gr/m

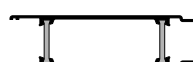
**"U" di compensazione**



### 78 TH.033

Peso 1320 gr/m

**Doga a taglio termico  
spessore 29 mm**

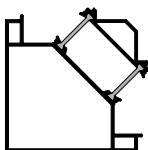




### 78 THP.057

Peso 1863 gr/m

**Angolo**



**60.040**

Peso 148 gr/m

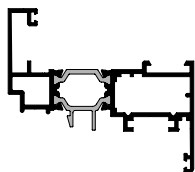
**Astina di comando**



### 78 THP.351

Peso 1533 gr/m

**Anta squadrata**



**60.9631**

Peso 3445 gr/m

Jx 222816 mm<sup>4</sup>

Jy 696099 mm<sup>4</sup>

**Squadretta principale  
telaio e anta tubolartà normale**



### 100.009

Peso 234 gr/m

**Gocciolatoio**



**60.043**

Peso 3310 gr/m

Jx 152253 mm<sup>4</sup>

Jy 550648 mm<sup>4</sup>

**Squadretta allineamento telaio  
esterna tubolartà normale**



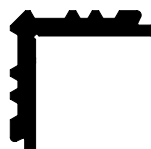
**60.9586**

Peso 3110 gr/m

Jx 197914 mm<sup>4</sup>

Jy 682665 mm<sup>4</sup>

**Squadretta allineamento  
esterna anta 78 THP.310**



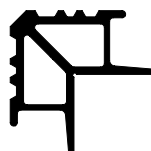
**60.044**

Peso 3480 gr/m

Jx 479333 mm<sup>4</sup>

Jy 514726 mm<sup>4</sup>

**Squadretta principale  
tubolartà maggiorata**



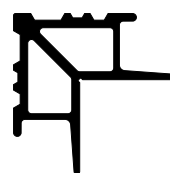
**60.9585**

Peso 3763 gr/m

Jx 1146477 mm<sup>4</sup>

Jy 1279412 mm<sup>4</sup>

**Squadretta allineamento  
esterna tubolarità maggiorata**



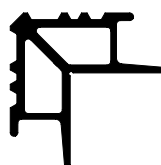
**60.9587**

Peso 3650 gr/m

Jx 478857 mm<sup>4</sup>

Jy 635681 mm<sup>4</sup>

**Squadretta allineamento  
esterna anta maggiorata 78 THP.311**



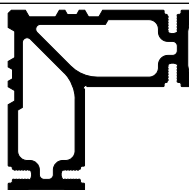
**60.9742**

Peso 6269 gr/m

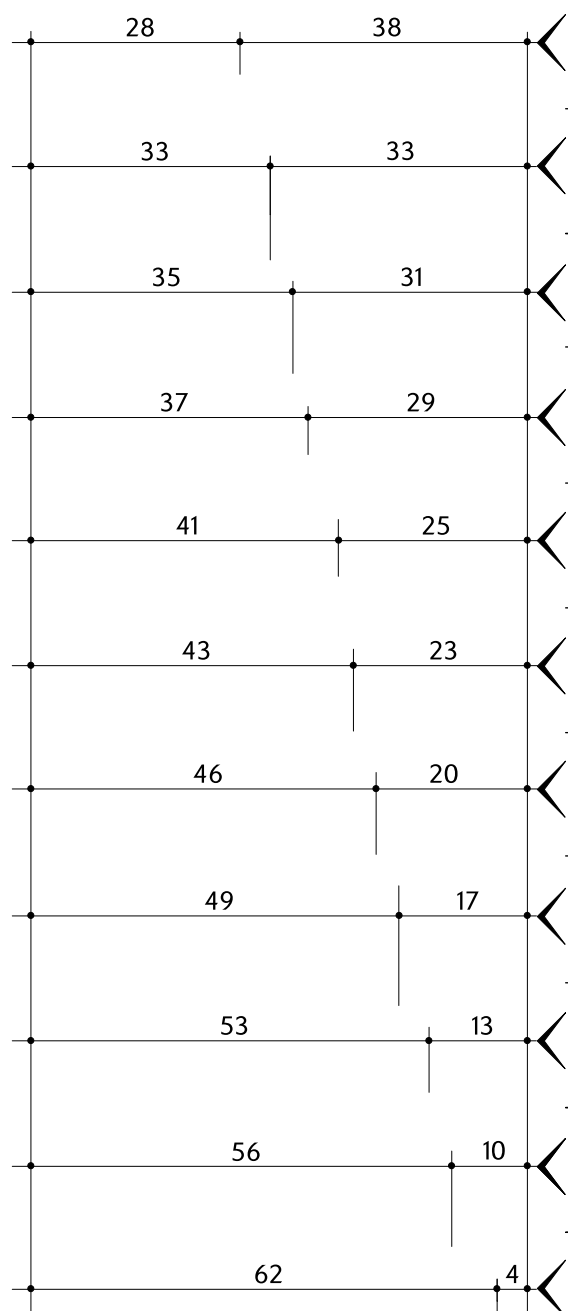
Jx 2172376 mm<sup>4</sup>

Jy 2172376 mm<sup>4</sup>

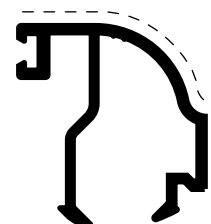
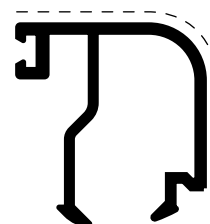
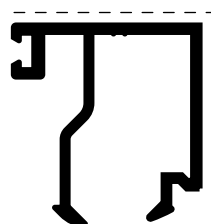
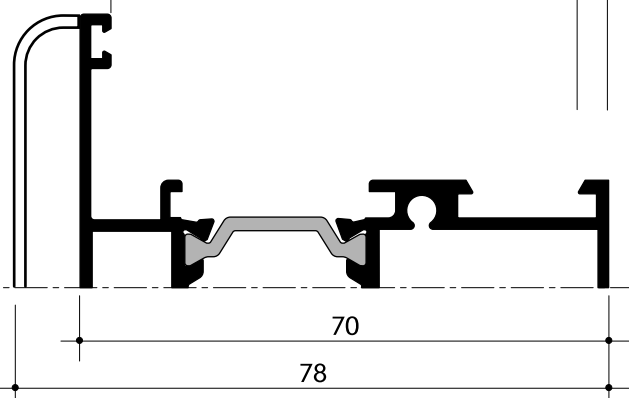
**Squadretta allineamento  
interna anta maggiorata 78 THP.313**

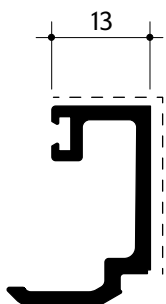


**Fermavetri**



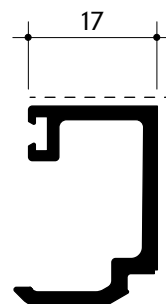
60.110 Peso 379 gr/m sup. vista: mm 60	-----	60.123 Peso 353 gr/m sup. vista: mm 53
60.109 Peso 360 gr/m sup. vista: mm 56	60.117 Peso 350 gr/m sup. vista: mm 50	60.122 Peso 334 gr/m sup. vista: mm 48
60.108 Peso 352 gr/m sup. vista: mm 53	60.116 Peso 340 gr/m sup. vista: mm 48	60.134 Peso 326 gr/m sup. vista: mm 46
60.107 Peso 343 gr/m sup. vista: mm 51	60.115 Peso 330 gr/m sup. vista: mm 46	60.133 Peso 318 gr/m sup. vista: mm 44
60.106 Peso 334 gr/m sup. vista: mm 47	60.114 Peso 320 gr/m sup. vista: mm 42	60.121 Peso 304 gr/m sup. vista: mm 40
60.105 Peso 322 gr/m sup. vista: mm 45	60.113 Peso 290 gr/m sup. vista: mm 40	60.132 Peso 300 gr/m sup. vista: mm 38
60.104 Peso 314 gr/m sup. vista: mm 42	-----	60.120 Peso 287 gr/m sup. vista: mm 35
60.103 Peso 256 gr/m sup. vista: mm 39	60.112 Peso 252 gr/m sup. vista: mm 34	60.131 Peso 221 gr/m sup. vista: mm 32
60.102 Peso 234 gr/m sup. vista: mm 35	60.111 Peso 242 gr/m sup. vista: mm 30	60.124 Peso 264 gr/m sup. vista: mm 28
60.101 Peso 224 gr/m sup. vista: mm 32	-----	-----
60.100 Peso 180 gr/m sup. vista: mm 26	-----	-----





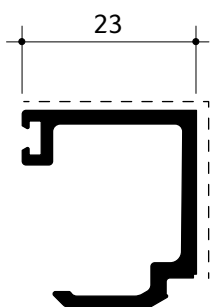
**60.135**

Peso 302 gr/m



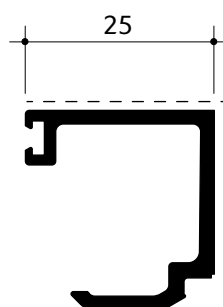
**60.137**

Peso 321 gr/m



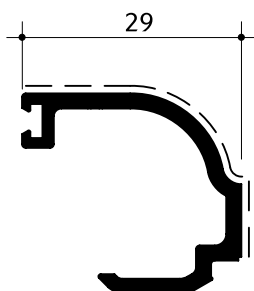
**60.136**

Peso 351 gr/m



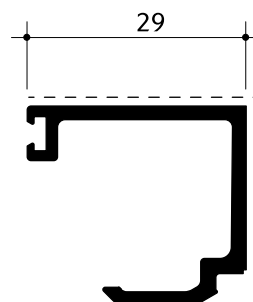
**60.138**

Peso 359 gr/m



**60.153**

Peso 364 gr/m



**60.139**

Peso 378 gr/m

## CODIFICA ACCESSORI

**N.B.:** LA CODIFICA RIFERITA AD ALCUNI ARTICOLI OSSIDATI O VERNICIATI PREVEDE DUE LETTERE " X " CHE ALL'ATTO DELL'ORDINE DOVRANNO ESSERE SOSTITUITE CON:

IL NUMERO	01	per articoli	GREZZI
" "	02	per articoli	OSSIDATI ARGENTO
" "	03	per articoli	OSSIDATI BRONZO
" "	04	per articoli	ELETTROCOLORE
" "	05	per articoli	OSSIDATI NERO
" "	06	per articoli	RAL 1013
" "	07	per articoli	RAL 9010
" "	08	per articoli	RAL 9005 (Nero)
" "	09	per articoli	COLORI VARI

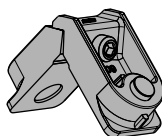
ESEMPIO ARTICOLO **A100 - 0120N - XX** (CERNIERA FLASH)

SE POSTO NELLA FORMA **A100 - 0120N - 07** VIENE RIFERITO AD UNA CERNIERA FLASH VERNICIATA RAL 9010

### A105-0409

Squadretta

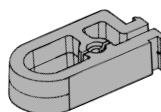
Conf. da 250 pz.



### A105-0575

Cavallotto

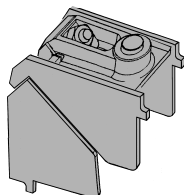
Conf. da 250 pz.



### A105-0496

Squadretta per profili maggiorati

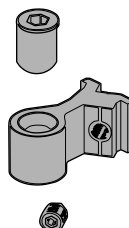
Conf. da 200 pz.



### A100-0428

Cavallotto

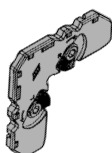
Conf. da 100 pz.



### A105-2006

Squadretta di allineamento  
ante e imbotti porte

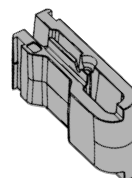
Conf. da 250 pz.



### A105-0574

Cavallotto per T maggiorato

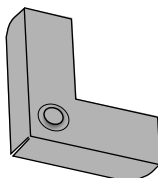
Conf. da 250 pz.



### A621-7316

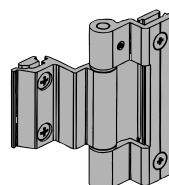
Squadretta di allineamento  
aletta esterna telaio

Conf. da 100 pz.



### A100-0600X-XX

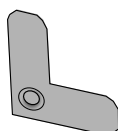
Cerniera a pettine "Bridge"



### A621-2136

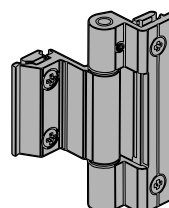
Squadretta di allineamento  
aletta interna anta

Conf. da 100 pz.



### A100-0607X-XX

Cerniera a pettine "Bridge"  
per 3a anta



### A105-0706

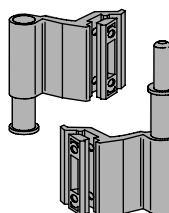
Squadretta in acciaio  
allinamento aletta  
interno telaio

Conf. da 500 pz.



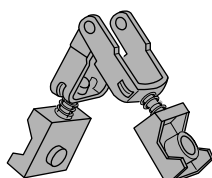
### A100-0120N-XX

Cerniera "Flash"



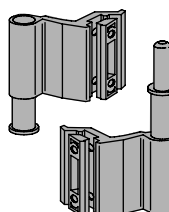
### A105-0909

Squadretta per  
angolazione variabile

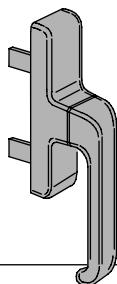


### A100-0143V-XX

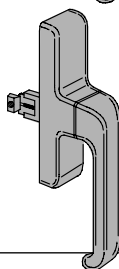
Cerniera "Flash" per 3a anta



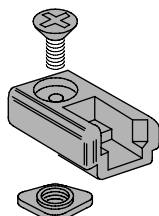
**A100-1000-XX**  
Cremonese "Euro"



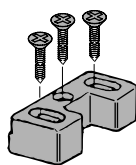
**A100-1090-XX**  
Cremonese "Euro" per  
anta-ribalta



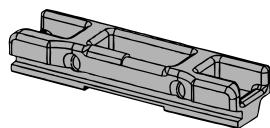
**A100-1348**  
Incontro aste e terza chiusura



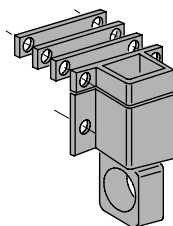
**A100-1325**  
Incontro superiore  
catenaccio "Totem"



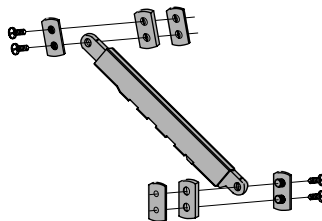
**A100-1349**  
Incontro doppio in zama



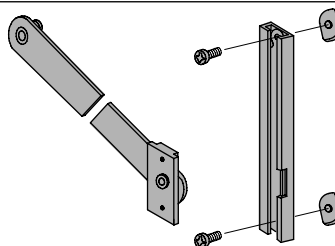
**A100-1701**  
Cricchetto "Grisbi"



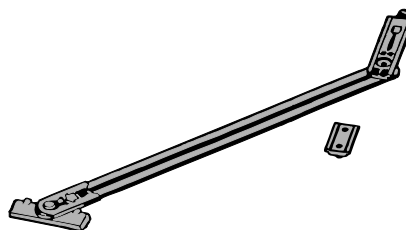
**A100-1954**  
Asta telescopica "Laser"



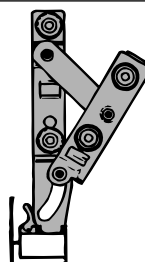
**A100-2014**  
Braccio sganciabile  
"Domus"



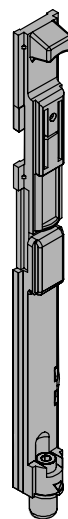
**A100-2030**  
Braccio limitatore  
di apertura



**A100-2051**  
Cerniera per  
wasistas "Olimpia"



**A100-2168N**  
Catenaccio registrabile

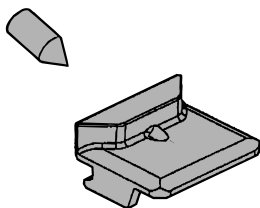


**A100-2188**  
Terminale per aste



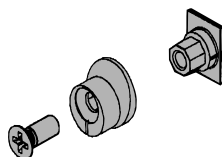
### A100-1343

Incontro per Art. A100-4030



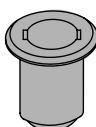
### A100-4030

Nottolino di chiusura registrabile



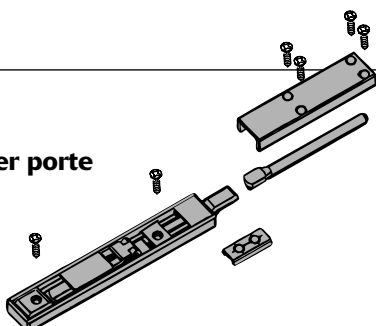
### A100-2159

Boccola per soglia



### A100-2170

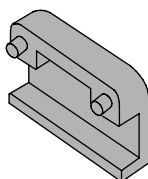
Catenaccio "Totem" per porte



### A100-2328

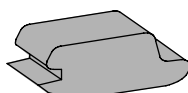
Cappetta copriasola drenaggio acqua

Conf. da 200 pz.



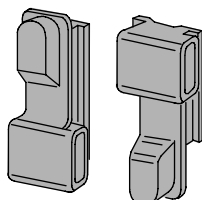
### A100-2336

Sostegno anta



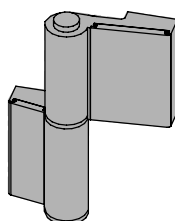
### A100-2387

Blocchetti di collegamento alla cremonese "Euro"



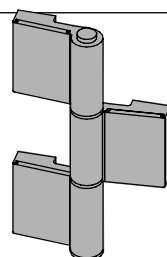
### A101-6040-XX

Cerniera "Loira" a due ali interasse mm 60



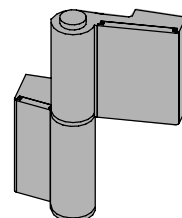
### A101-6045-XX

Cerniera "Loira" a tre ali interasse mm 60



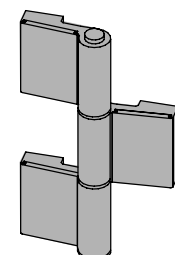
### A101-6192-XX

Cerniera "Loira" a due ali interasse mm 93



### A101-6197-XX

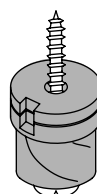
Cerniera "Loira" a tre ali interasse mm 93



### A104-600.01

Rapid Block

Conf. da 200 pz.



### AS023/1

Cassa per regolo in metallo

Conf. da 100 pz.



### AS017 mm 30

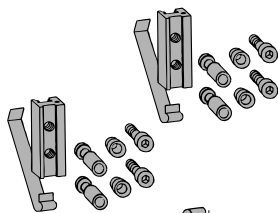
AS022 mm 60

Vite in alluminio per regolo



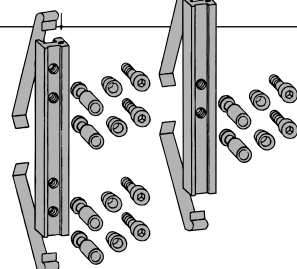
### A101-6633T4

Kit di fissaggio per  
cerniera A101-6192



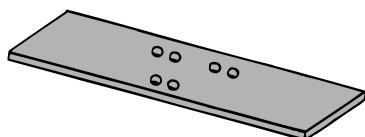
### A101-6643T4

Kit di fissaggio per  
cerniera A101-6197



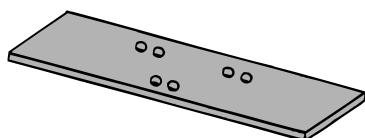
### A101-6851

Dima per pantografo  
(cerniere int. mm 60)



### A101-6856

Dima per pantografo  
(cerniere int. mm 93)



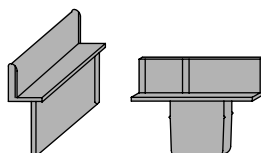
### A126-6183

Clips per femavetro arrotondato



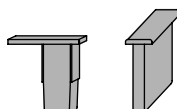
### A126-6117

Tappi di battuta su  
inversione centrale porte



### A126-6118

Tappi su profili di battuta porte



### A126-06401

Tappo per riporto centrale  
anta apertura interna



Conf. da 15 cp.

### A126-06404

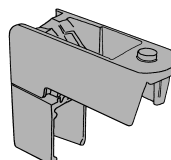
Tappo per riporto centrale  
arrotondato anta apertura interna



Conf. da 15 cp.

### A105-1007

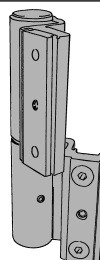
Squadretta maggiorata  
in alternativa alla A105-0496



Conf. da 50 pz.

### A5601-08

Cerniera rinforzata



### A104-600.04

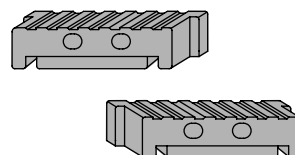
Rapid Block per profilati  
70TH.049



Conf. da 200 pz.

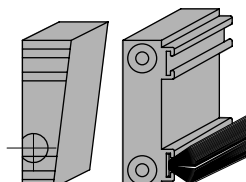
### A126-6122

Tappi per soglia porte 70.6010



### A126-6120

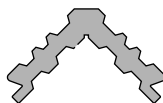
Tappi di tenuta aria per porte





### A70-9631

Squadretta principale telaio e anta tubolarità normale a cianfrinare in alternativa a A105-0409



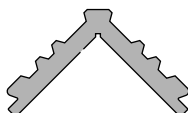
### A70-7219

Squadretta allineamento esterna tubolarità normale a cianfrinare telaio



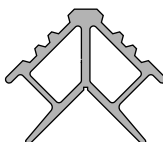
### A70-9586

Squadretta allineamento esterna anta 78 TH.010 a cianfrinare



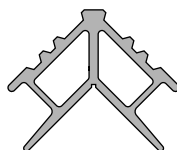
### A70-7218

Squadretta principale tubolarità maggiorata a cianfrinare in alternativa a A105-0496



### A70-9585

Squadretta allineamento esterna tubolarità maggiorata a cianfrinare



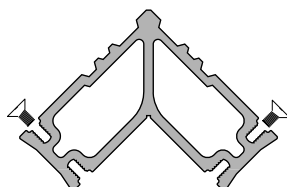
### A70-9587

Squadretta allineamento esterna anta maggiorata 78 TH.011 a cianfrinare



### A70-9742

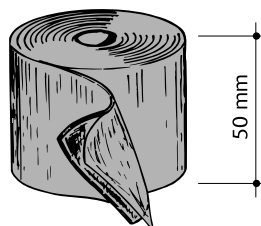
Squadretta allineamento interna anta maggiorata 78 TH.013 a cianfrinare



### A70-1516

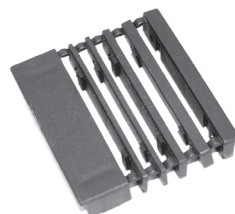
Inserto per sostegno tubolarità esterna traversi e zoccoli

Conf. da 50 pz.



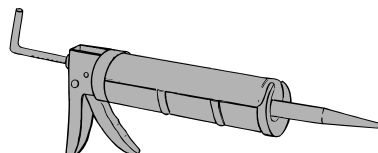
### 115-CDISO7M

Spugna adesiva per coibentazione H 50 mm



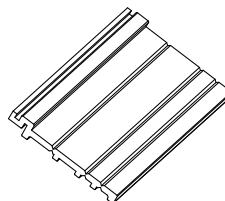
### A6141-79-0

Salvaprofilo portoncino aperture esterna



### A105-6500

Collante per incollaggio squadretta



### ANW-090

Base appoggio spessori vetro

Conf. da 250 pz.

**Per istruzioni di montaggio  
vedi pag. 73**

**A56-46455.XX**  
Cremonese per sporgere



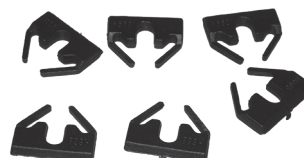
**A605-0427**  
Squadretta per  
78TH.082 e 78TH.083

**A56-939D**  
Cardini autoportanti  
portata Kg 75  
(la coppia)

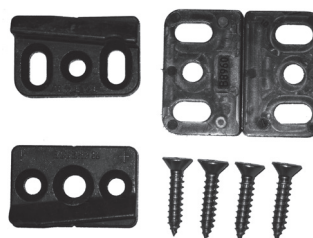


**A56-939E**  
Cardini autoportanti  
portata Kg 100  
(la coppia)

**A56-939F**  
Cardini autoportanti  
portata Kg 150  
(la coppia)

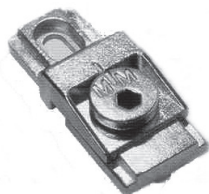


**A100-01974**  
N° 1 Kit spessoramento  
cardini autoportanti



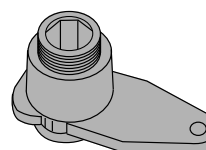
**A100-01374**  
Rostro di chiusura  
traverso superiore

**A56-939**  
Coppia blocchetto  
regolazione altezza  
optional su A56-939D  
e A56-939H  
di serie su A56-939E



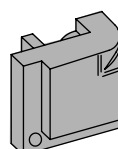
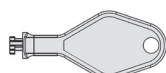
**A70-2812**  
Incontro per chiusura

**A56-940A**  
Braccio limitatore  
di apertura sporgere



**A003**  
Espansore

**A56-941**  
Chiave di sblocco  
braccio limitatore



**A142-2224-XX**  
Angolo in zama  
per fermavetri arrotondati

**A56-1204**  
Rinvio d'angolo



This image shows a full page of blank graph paper. The grid consists of small, equal-sized squares formed by thin black lines. There are no margins, text, or other markings on the page.

### A6-27212-XX

Frizione per bilico orizzontale  
portata coppia 170 Kg



### AG-11071-00

Riscontro per  
chiusura supplementare



### A6-27337-XX

Frizione per bilico verticale  
portata coppia 170 Kg



### AK-13393-00

Limitatore di apertura



### A6-29189-30-XX

Maniglia



### A6-25948-35

Meccanismo per chiusura



### A105-4123

Squadretta per profilo 78.9861



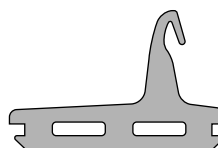
### A9-13133-40

Viti (ordine minimo 2 pezzi)



### A126-2292H

Guarnizione di tenuta  
centrale a giunto aperto per bilico



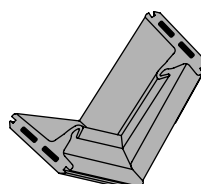
### A6-24529-00

Rinvio d'angolo



### A126-4123

Angolo vulcanizzato per  
guarnizione A126-2292H



### A6-24539

Chiusura supplementare



### A126-20139

Guarnizione per bilico



### A102-6197

Guarnizione di battuta  
per porte interne



Conf. da 300 ml.

### A126-2340

Guarnizione di giunzione per telai



Conf. da 160 ml.

### A126-2178

Guarnizione di vetratura  
esterna spessore mm 2,5



Conf. da 250 ml.

### A126-2666

Guarnizione di battuta interna



Conf. da 250 ml.

### A126-2800

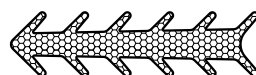
Guarnizione di vetratura interna  
spessore mm 2



Conf. da 350 ml.

### A126-20212

Guarnizione sottovetro



Conf. da 50 ml.

### A126-2194

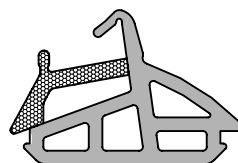
Guarnizione di vetratura  
interna spessore mm 3/4



Conf. da 180 ml.

### A126-08175

Guarnizione di tenuta  
centrale a giunto aperto  
serie PBS78 TH PLUS



Conf. da 60 ml.

### A126-2195

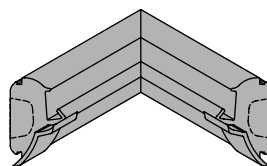
Guarnizione di vetratura  
interna spessore mm 5/6



Conf. da 120 ml.

### A126-04400

Angolo vulcanizzato per  
guarnizioni A126-08175



Conf. da 50 pz.

### A126-2197

Guarnizione di vetratura  
interna spessore mm 7/8



Conf. da 90 ml.

### 619-PB790

Spazzolino



Conf. da 100 ml.

### A126-2284

Guarnizione di appoggio soglia



Conf. da 200 ml.

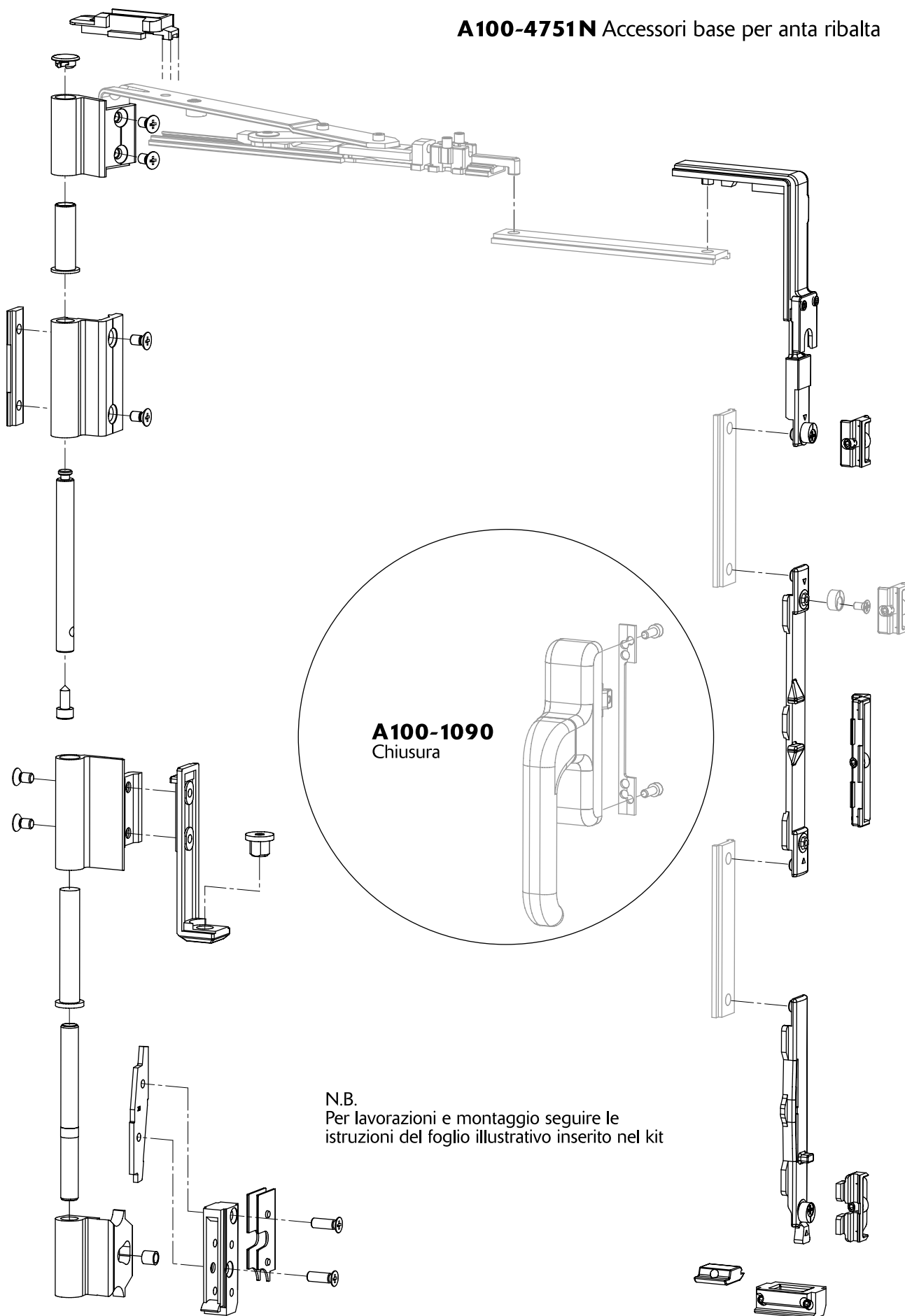
### G204D

Guarnizione chiusura  
cava aggancio f.v.

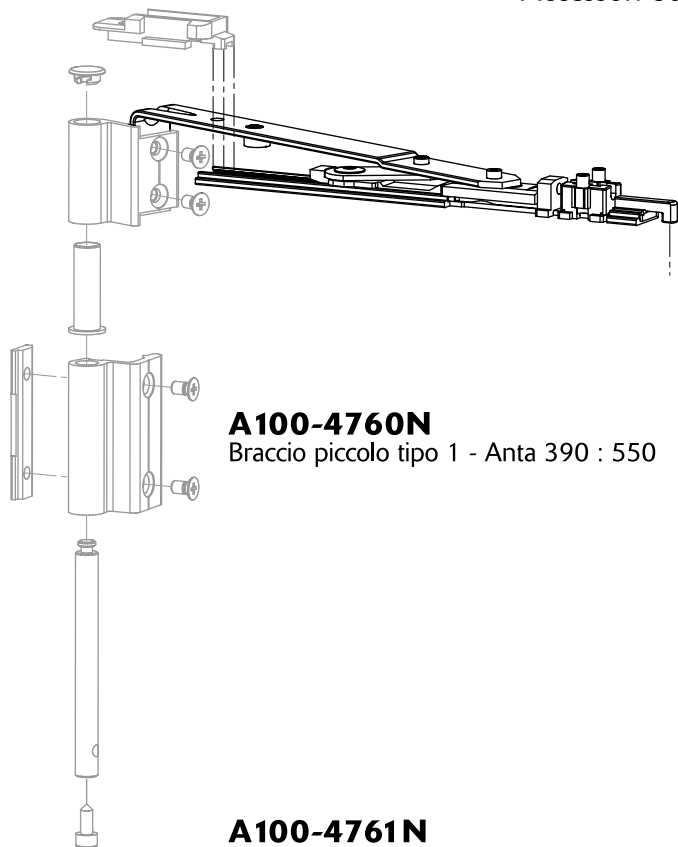


Conf. da 150 ml.

### A100-4751N Accessori base per anta ribalta



### Accessori base per anta ribalta

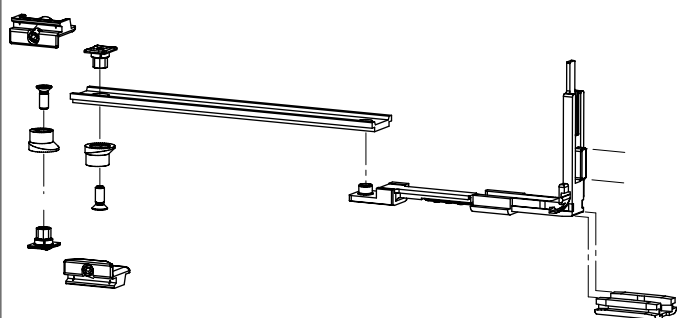


**A100-4760N**

Braccio piccolo tipo 1 - Anta 390 : 550

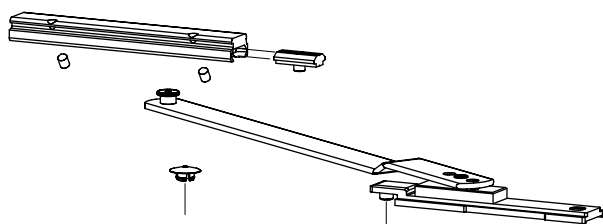
**A100-4761N**

Braccio medio tipo 2 - Anta 551 : 1700



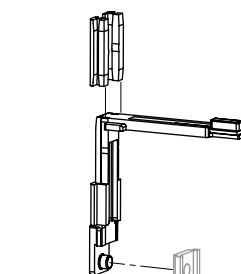
**A100-4770**

Chiusure supplementari orizzontali



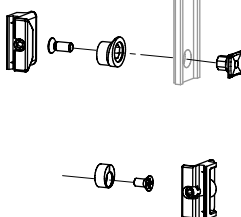
**A100-4301N**

Braccio supplementare (da utilizzare col braccio 2)  
Per larghezze anta da mm 1100 a mm 1700



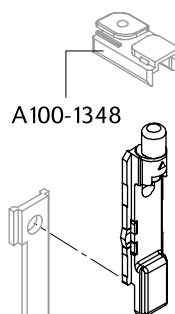
**A100-4770**

Chiusure  
supplementari  
orizzontali

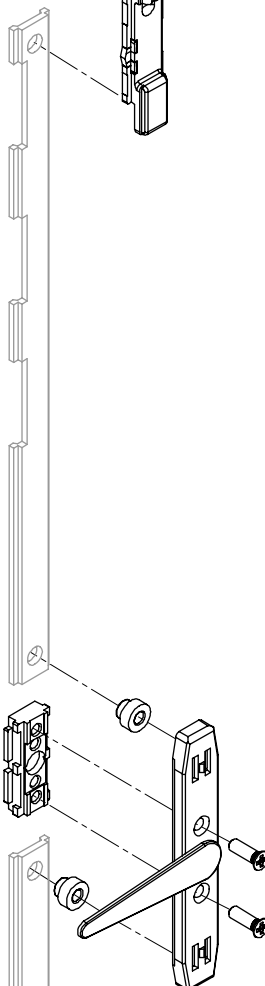


**A100-4311**

Serratura



A100-1348

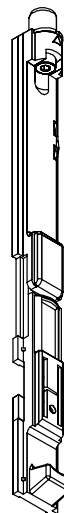


A100-1349

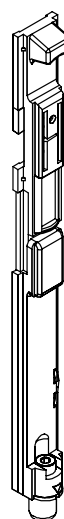
**A100-2191**

Kit chiusura  
doppia anta  
bidirezionale a leva

**A100-2168N**



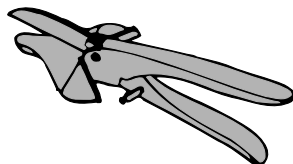
in alternativa  
all'art.  
A100-2191



**A100-2168N**

### A106-0349

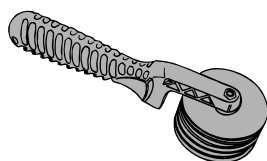
Forbici taglia guarnizioni



### ATTREZZATURE

### A106-00114

Rotella infila guarnizioni



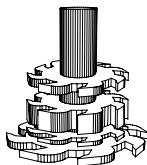
### A115-CD8132

Colla cianoacrilica



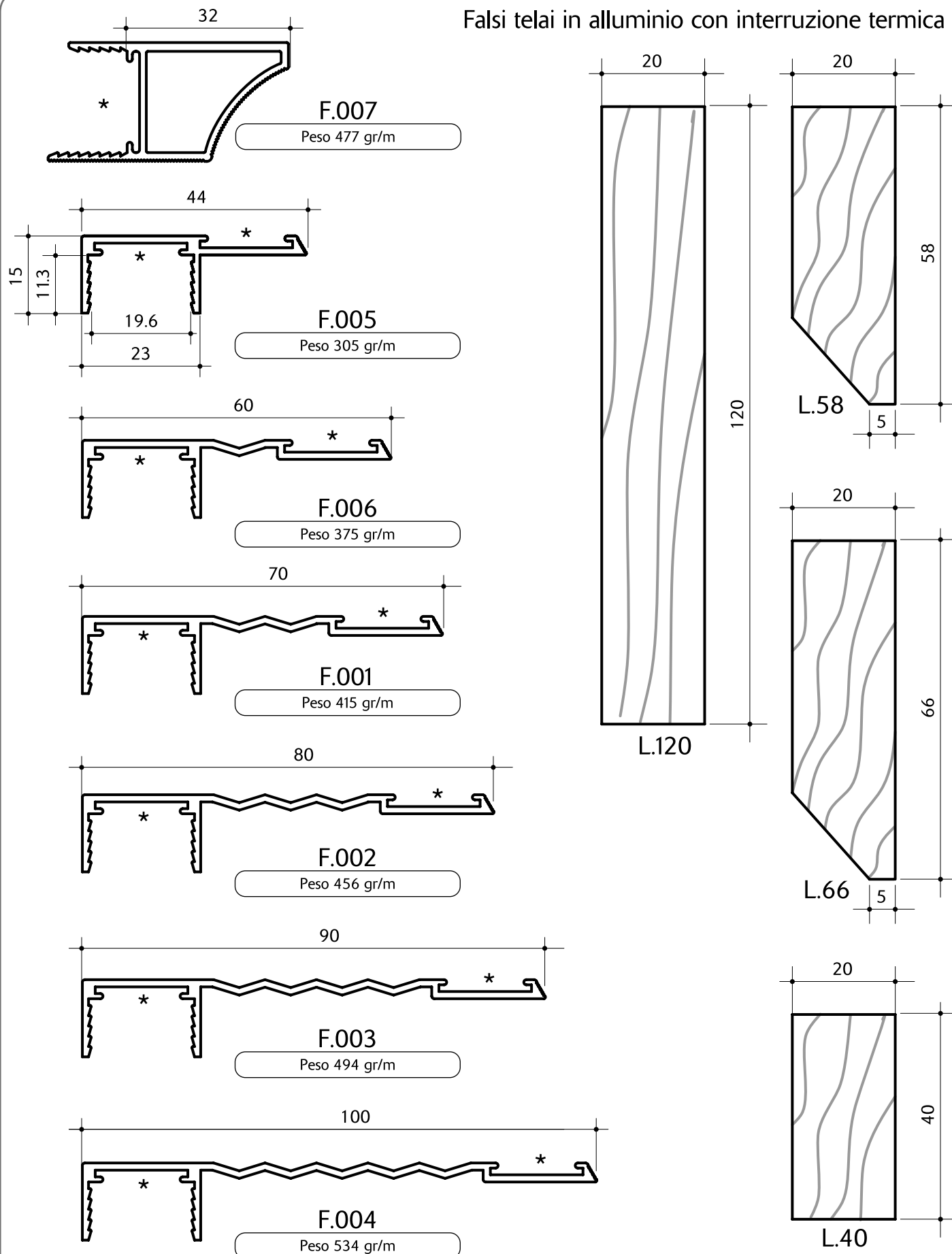
### A401-160-78

Gruppo fresa





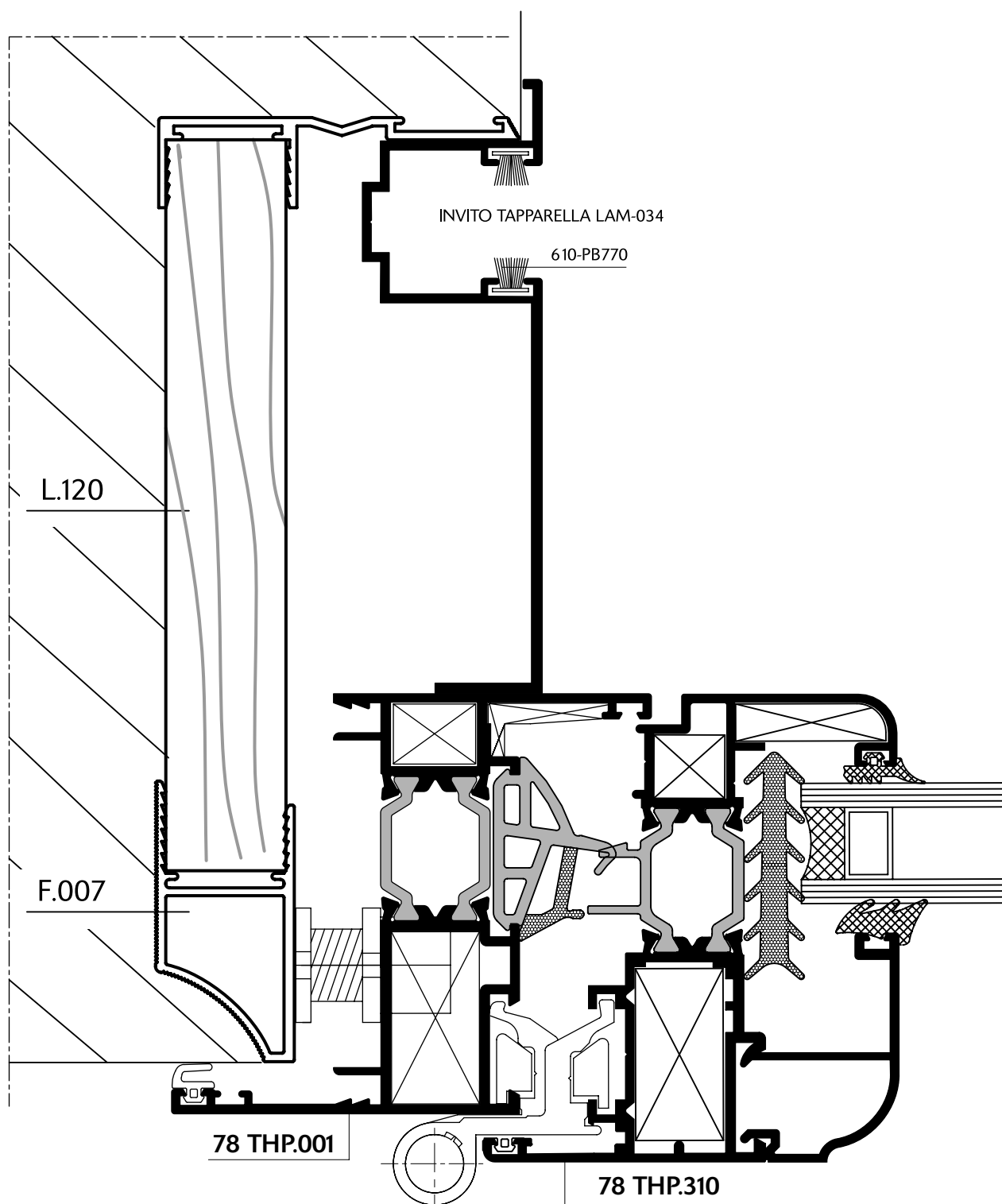
### Falsi telai in alluminio con interruzione termica



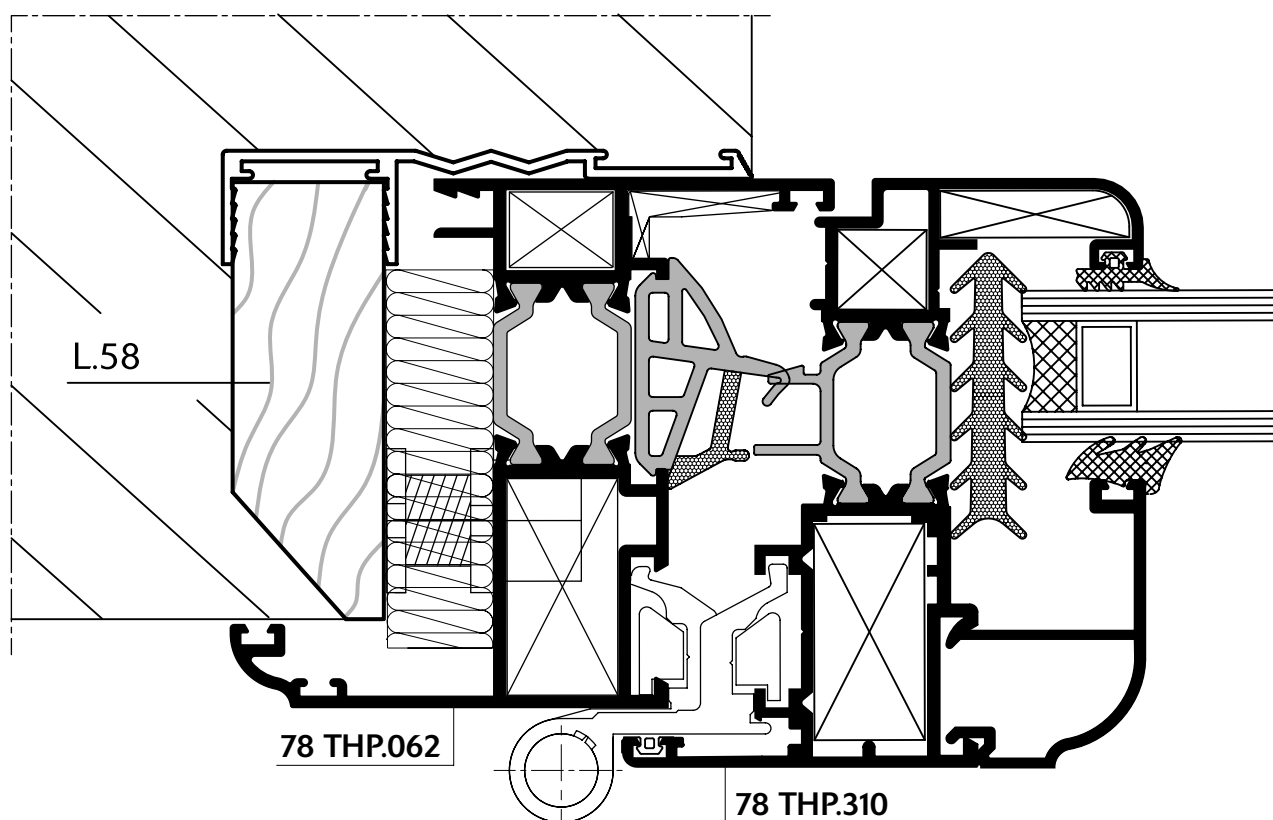
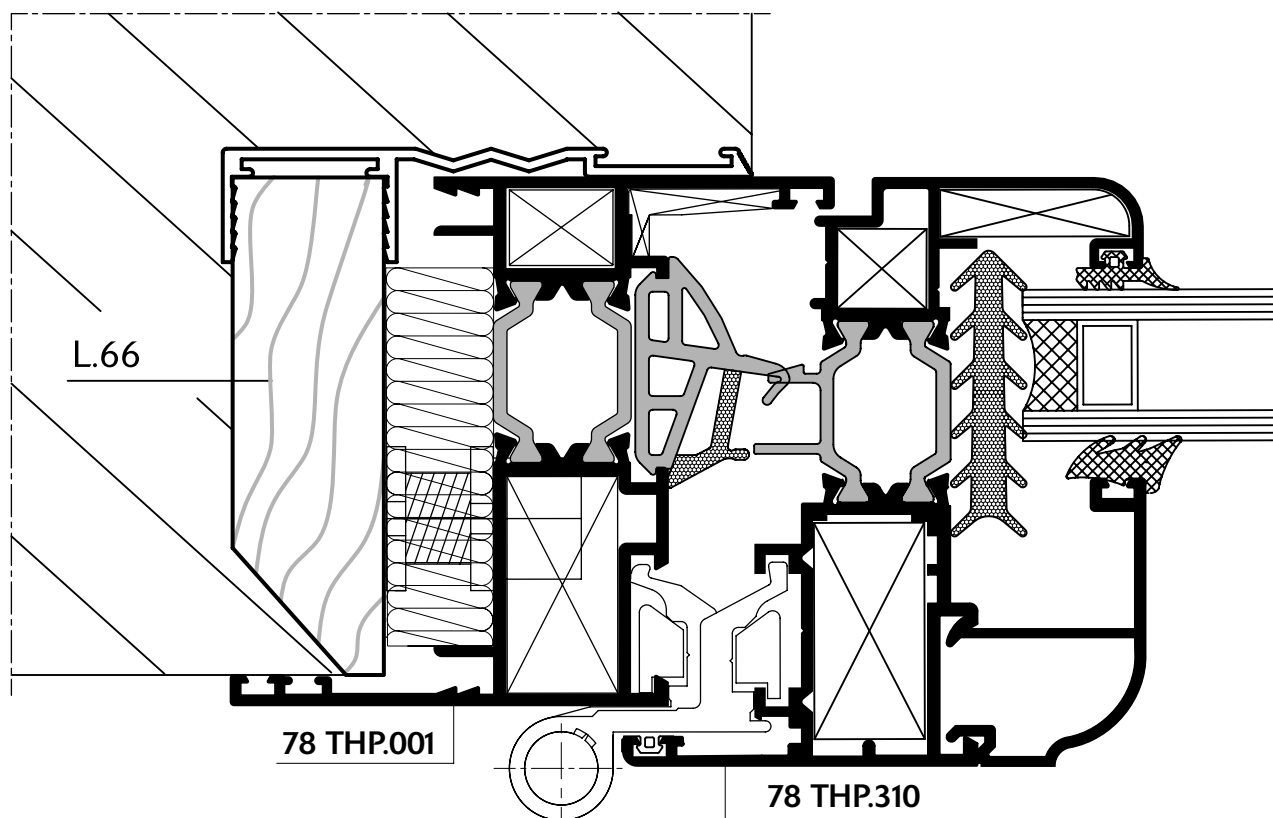
\* Sedi per squadrette di allineamento Art. 6HY 43

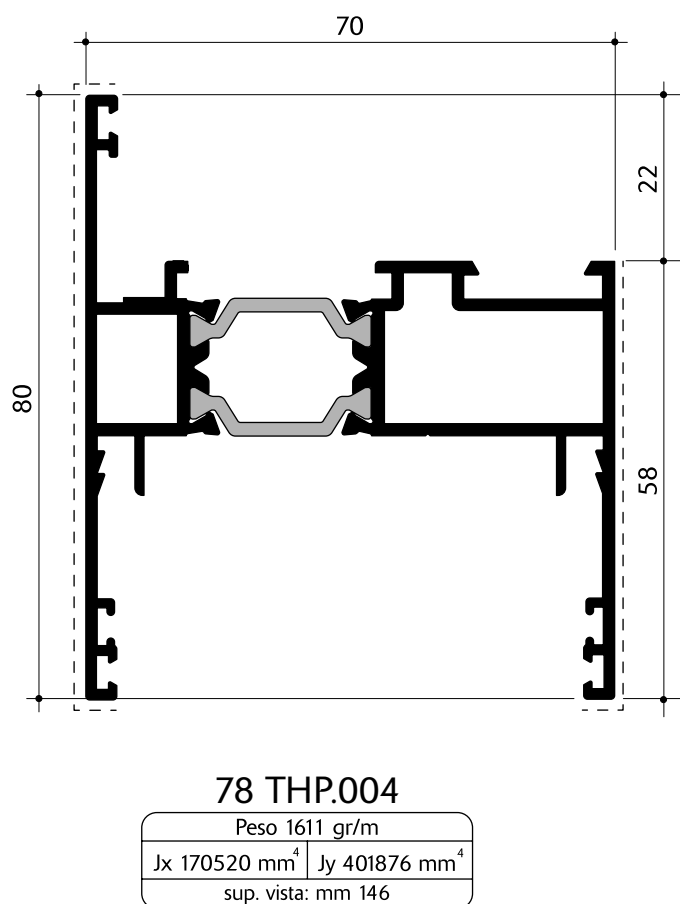
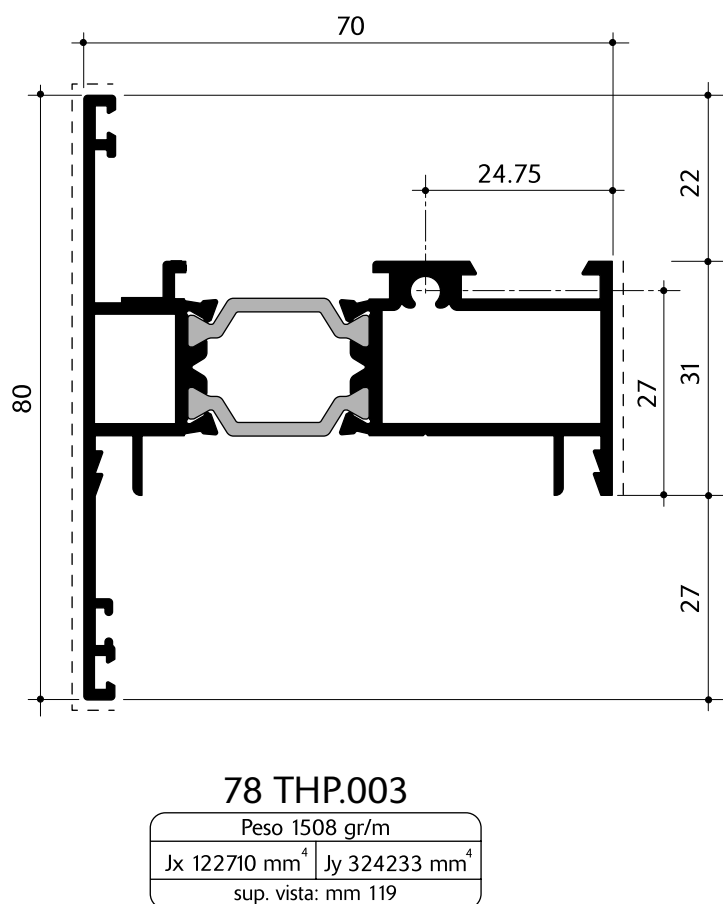
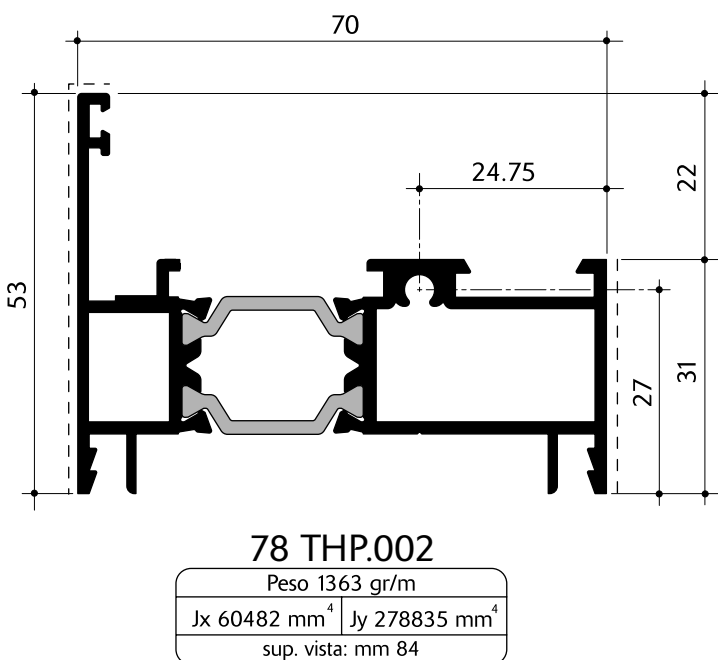
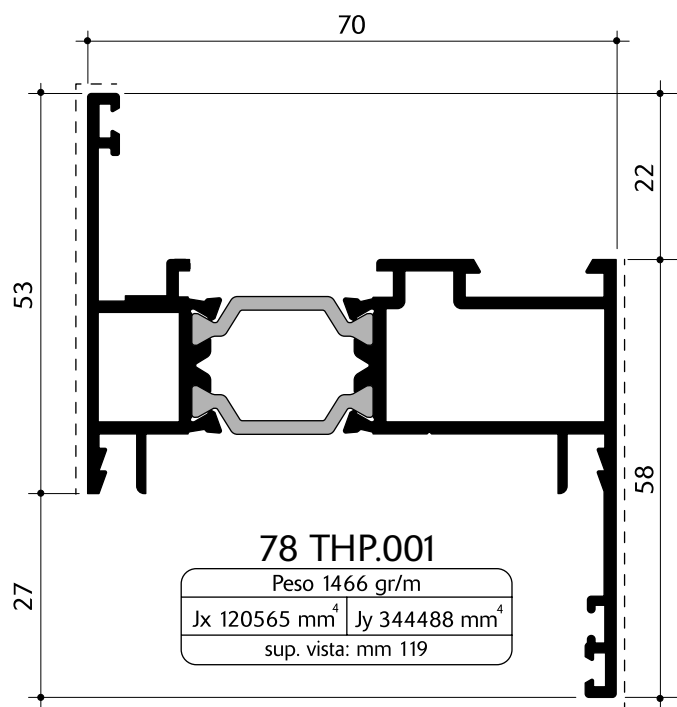
Zanche da ordinare a parte Art. L.603

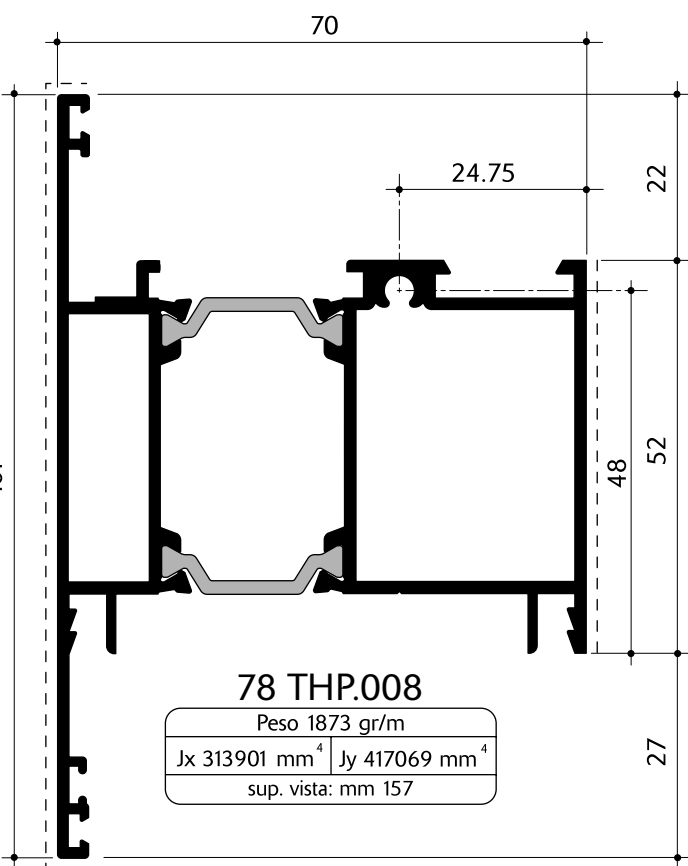
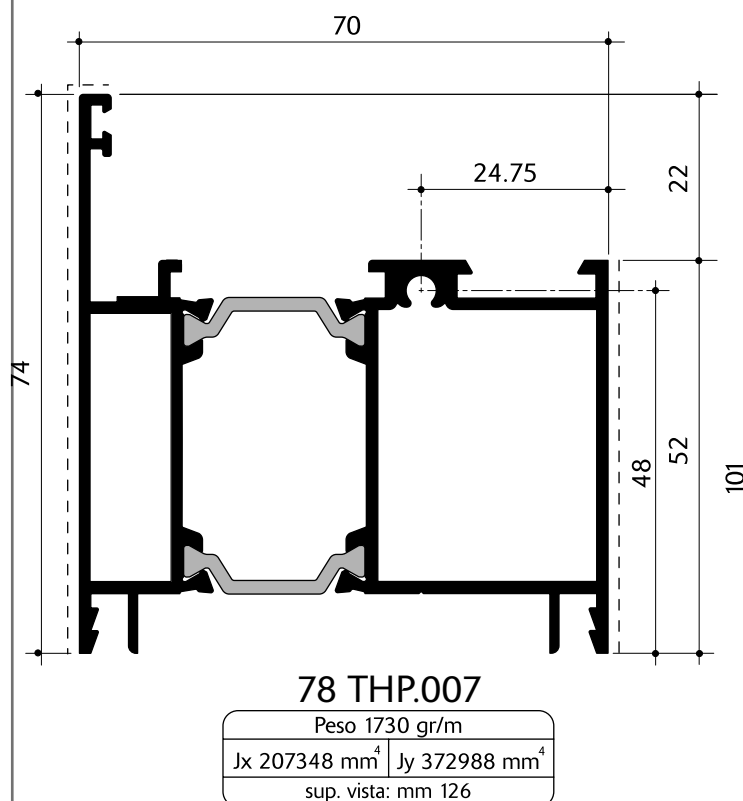
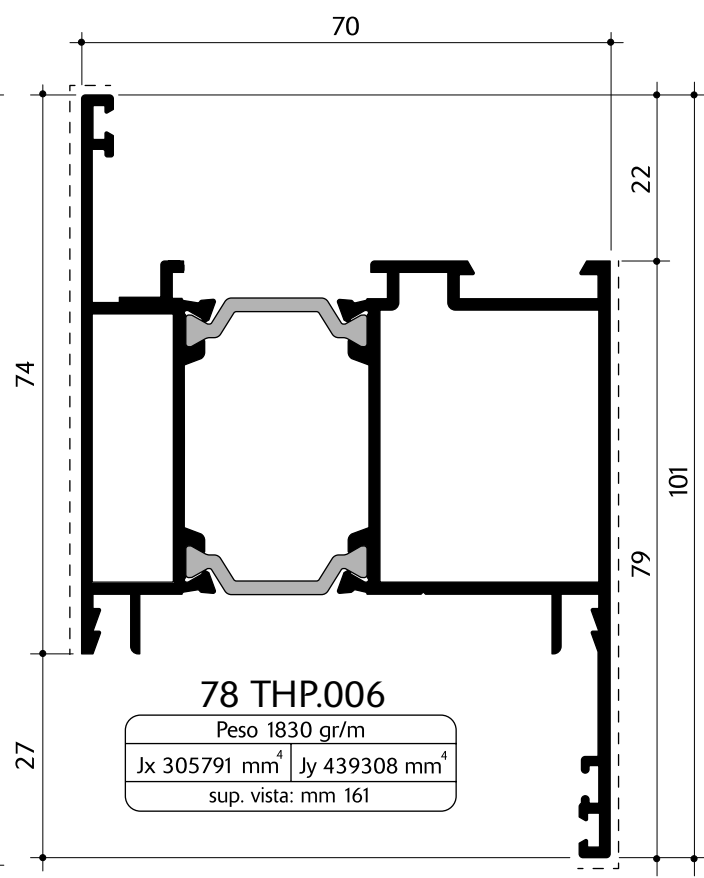
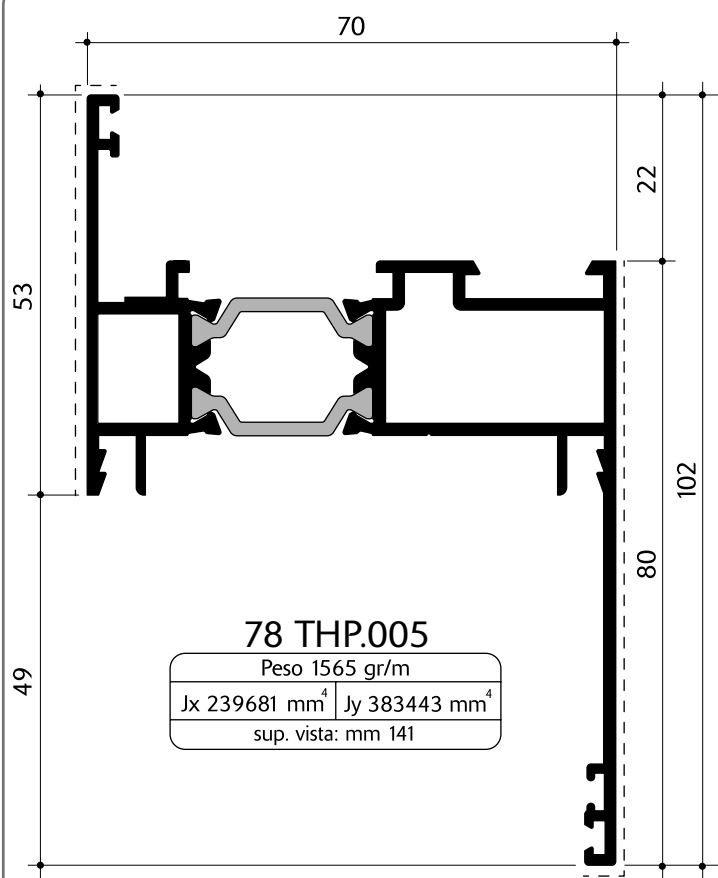
Falsi telai in alluminio con interruzione termica

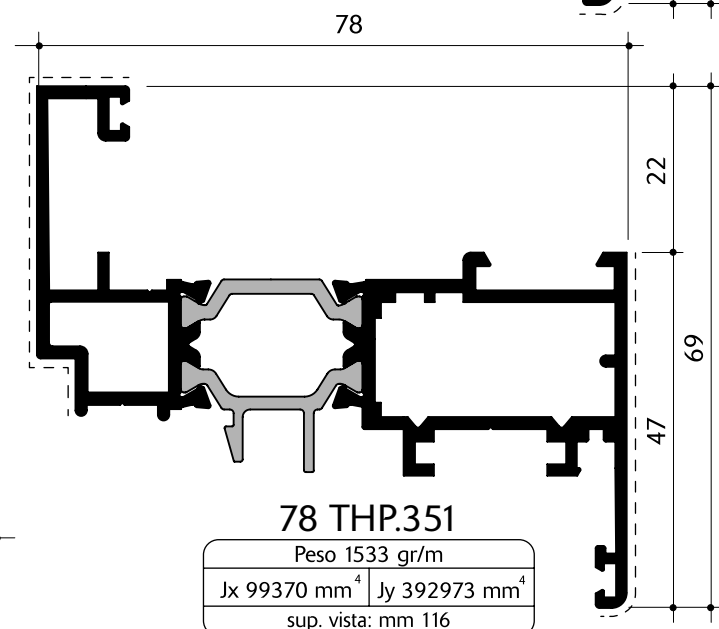
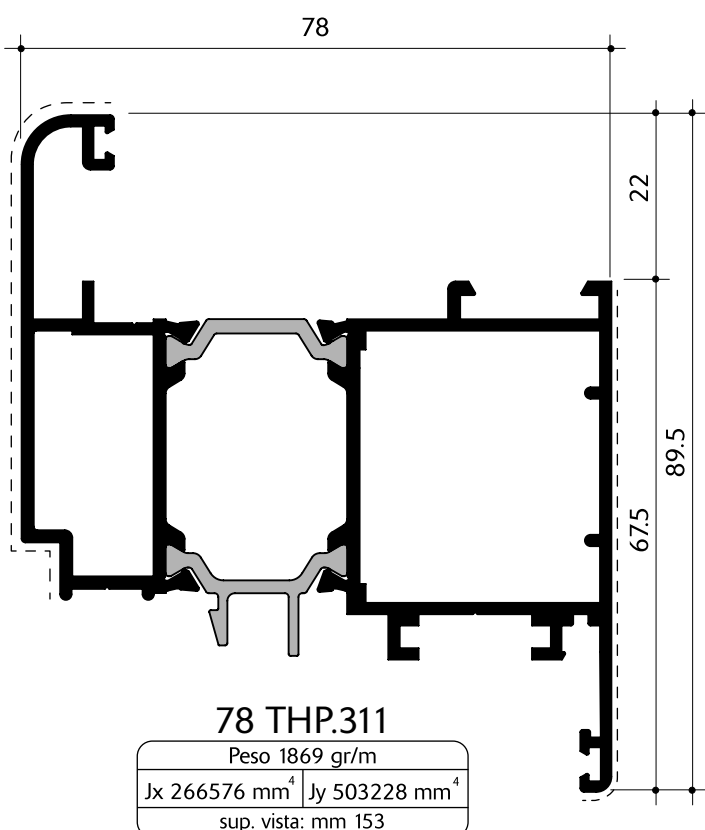
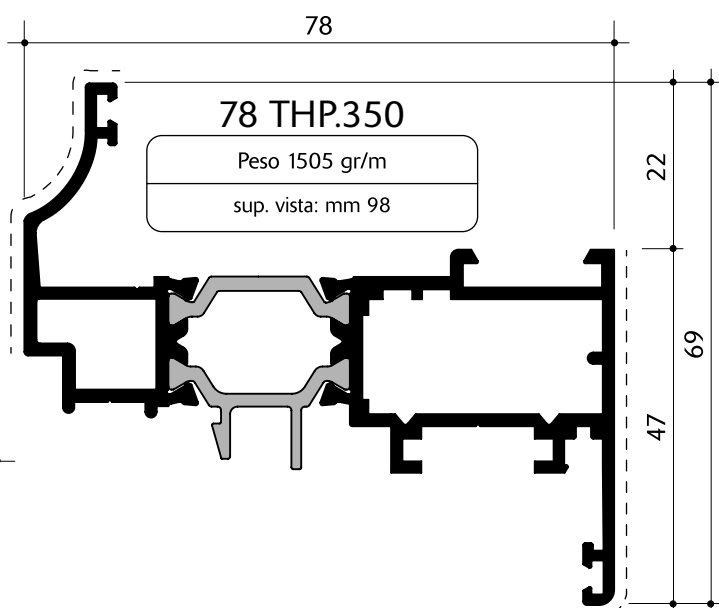
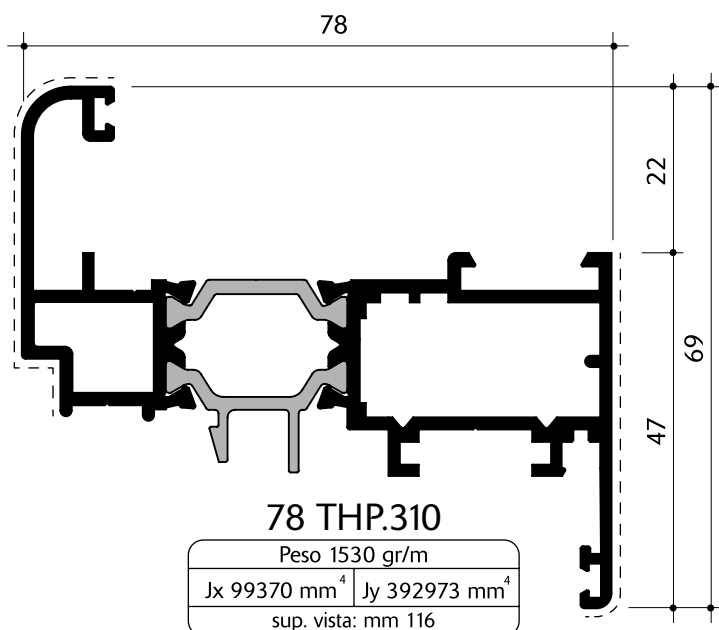
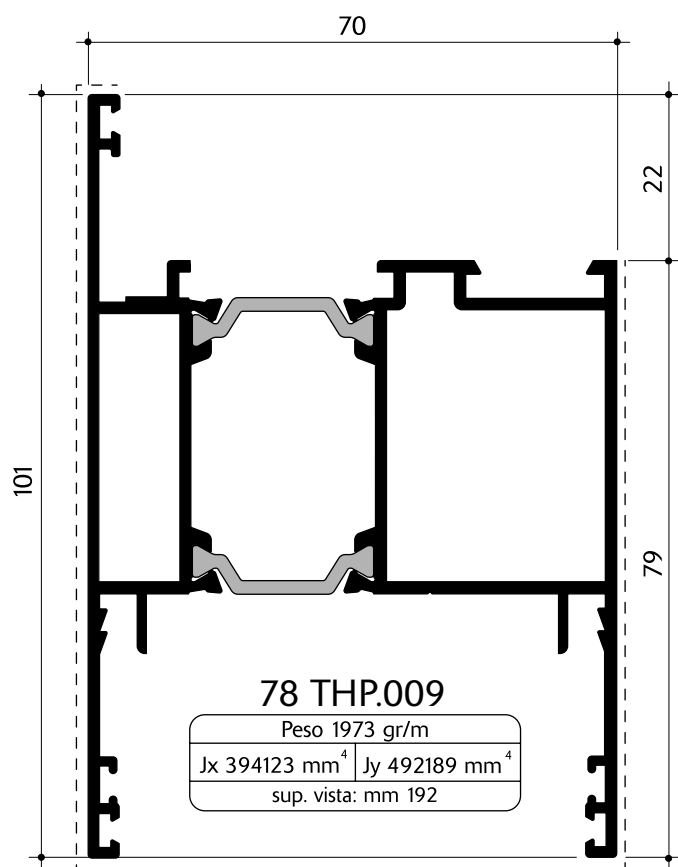


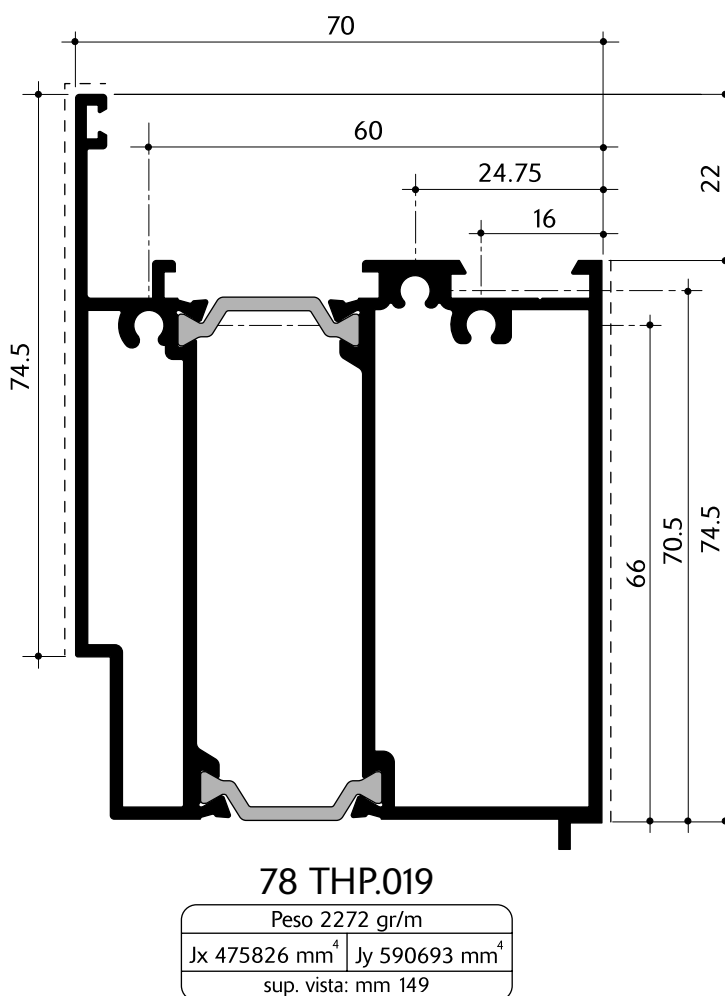
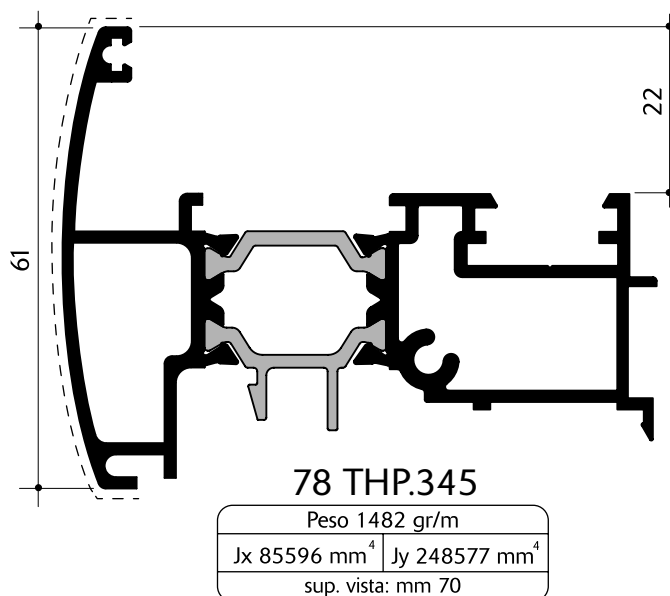
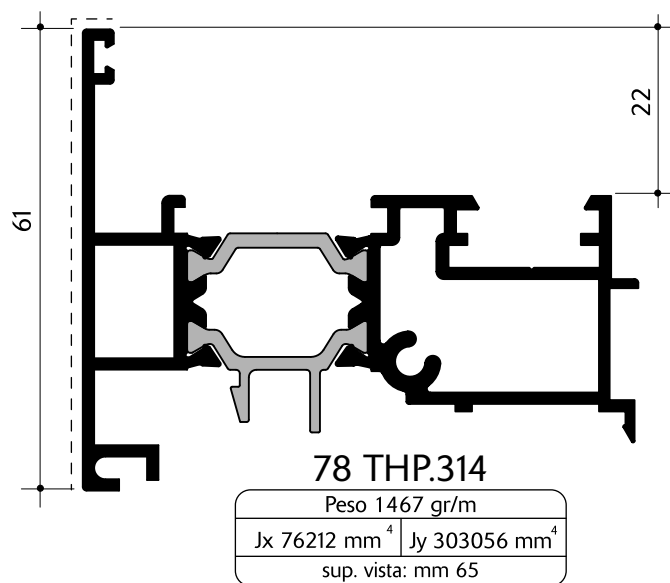
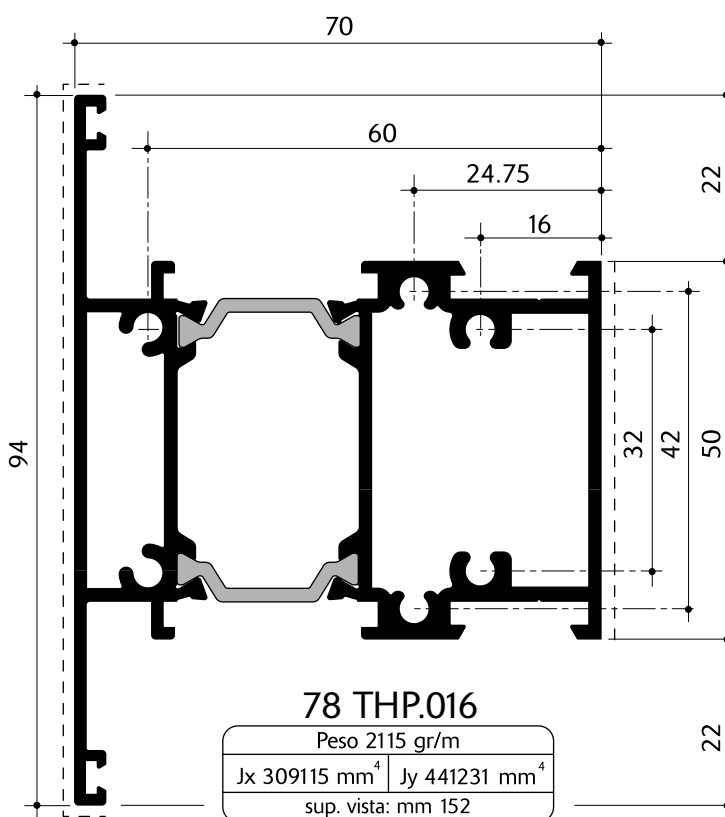
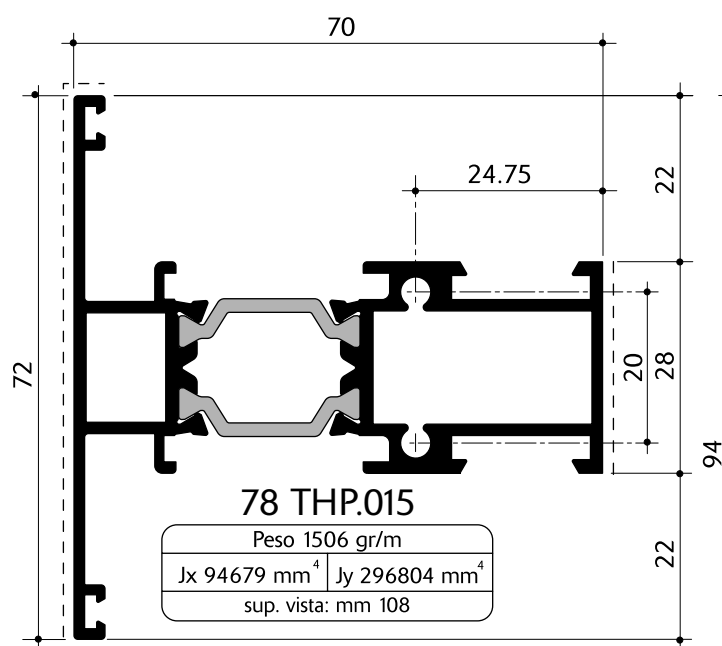
Falsi telai in alluminio con interruzione termica

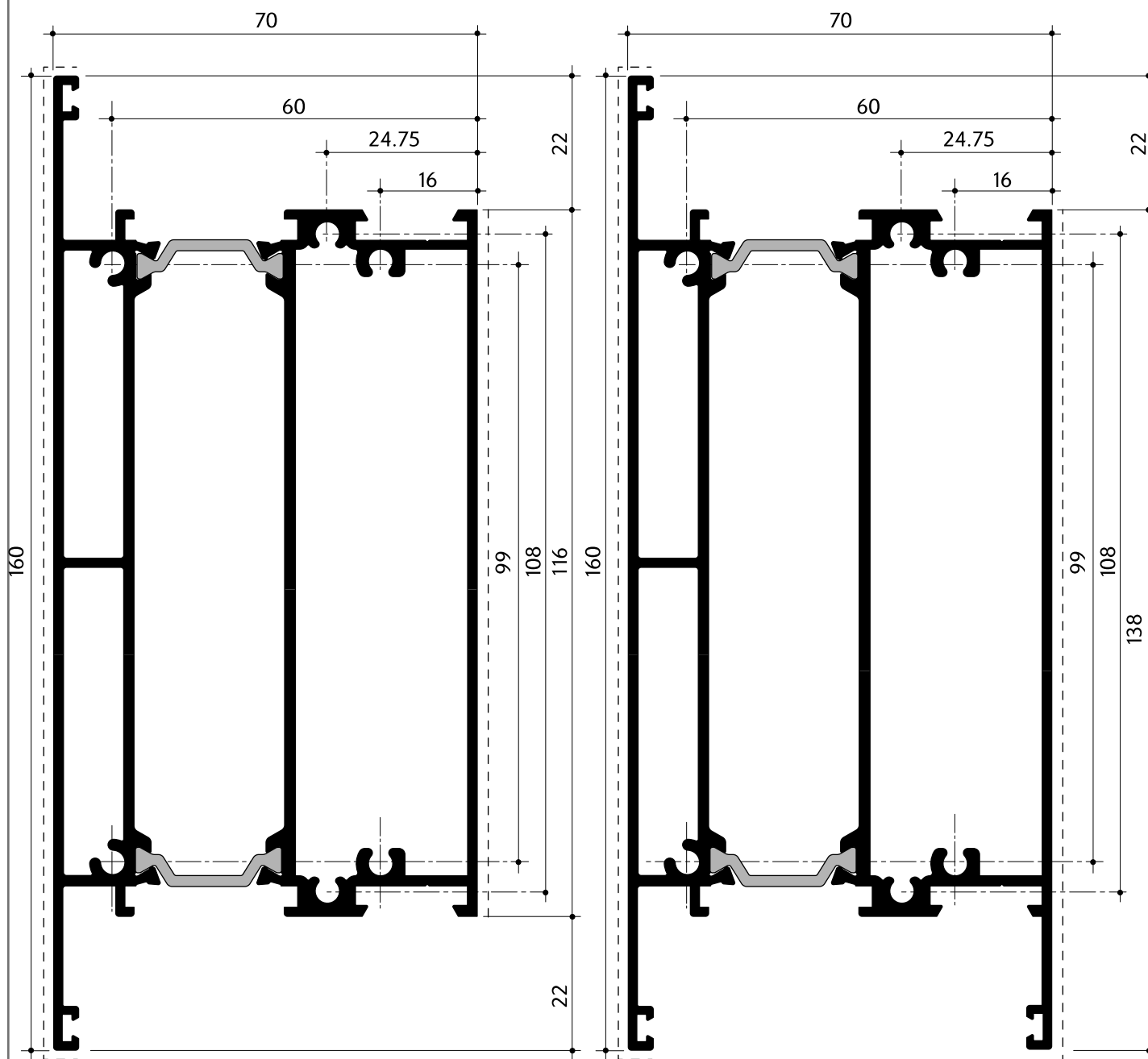












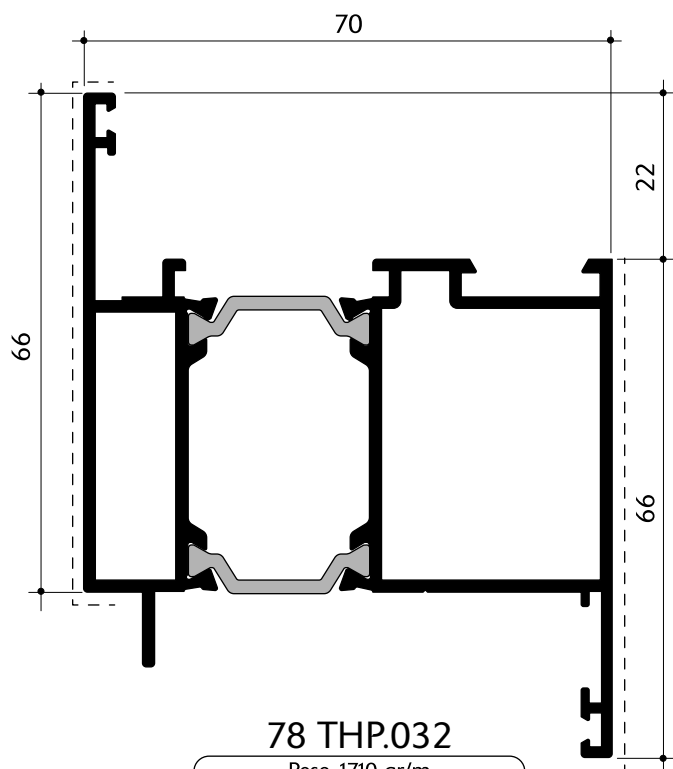
**78 THP.017**

Peso 3327 gr/m	
Jx 2152931 mm <sup>4</sup>	Jy 749001 mm <sup>4</sup>
sup. vista: mm 284	

**78 THP.018**

Peso 3440 gr/m	
Jx 2359309 mm <sup>4</sup>	Jy 808566 mm <sup>4</sup>
sup. vista: mm 314	

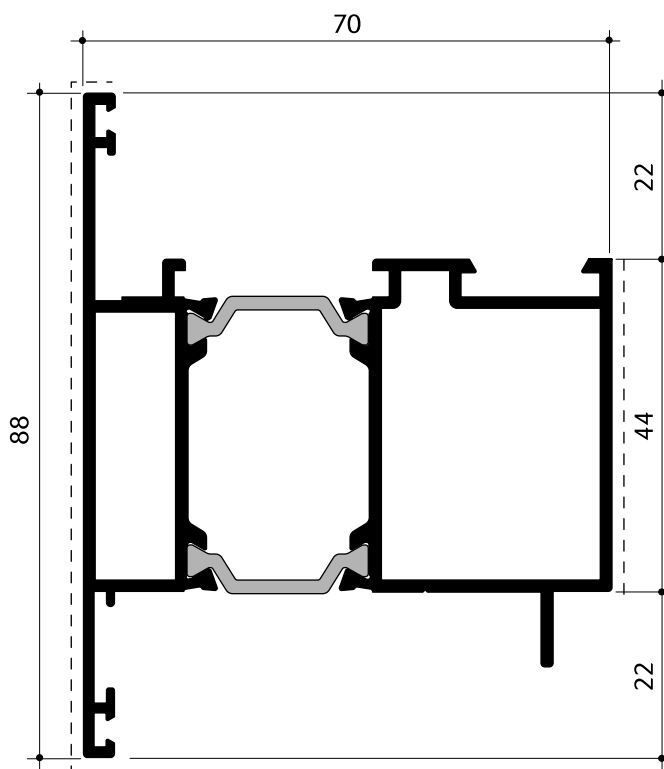




**78 THP.032**

Peso 1710 gr/m

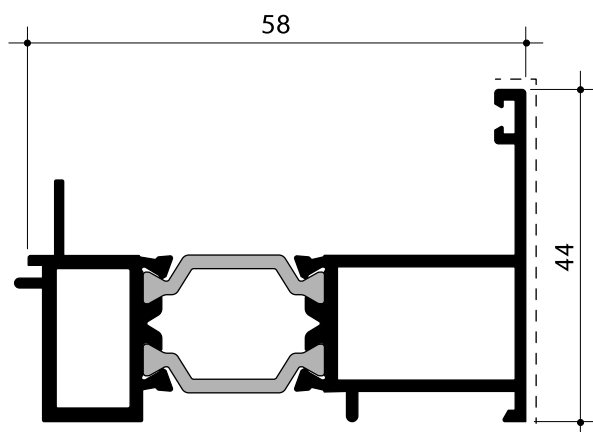
Jx 233034 mm <sup>4</sup>	Jy 387707 mm <sup>4</sup>
sup. vista: mm 144	



**78 THP.031**

Peso 1696 gr/m

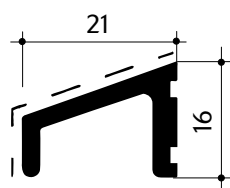
Jx 232853 mm <sup>4</sup>	Jy 369821 mm <sup>4</sup>
sup. vista: mm 140	



**78 THP.035**

Peso 1108 gr/m

Jx 39006 mm <sup>4</sup>	Jy 194874 mm <sup>4</sup>
sup. vista: mm 48	



**100.009**

Peso 234 gr/m



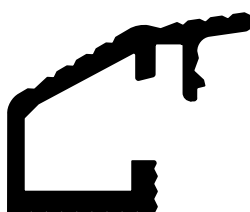
**70.034**

Peso 186 gr/m



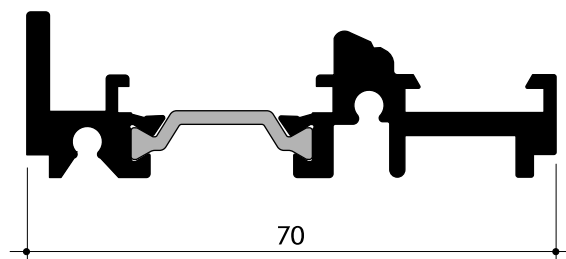
**70.10521**

Peso 180 gr/m



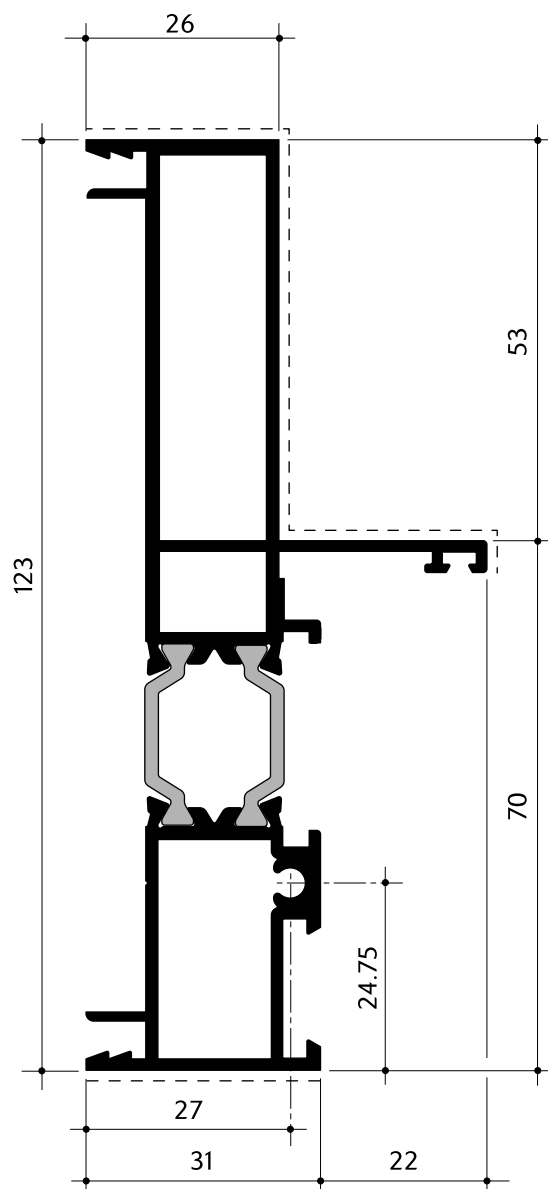
**70.9757**

Peso 526 gr/m



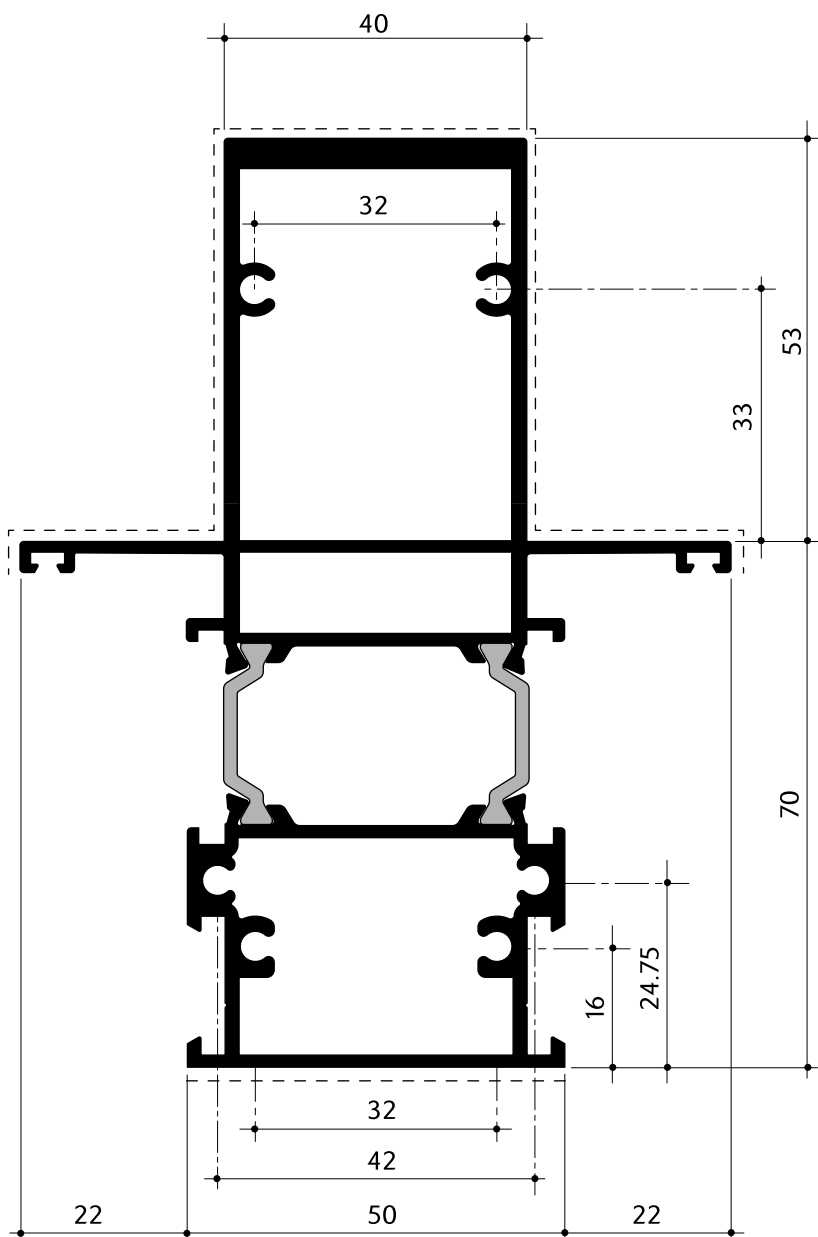
**78 THP.046**

Peso 1065 gr/m



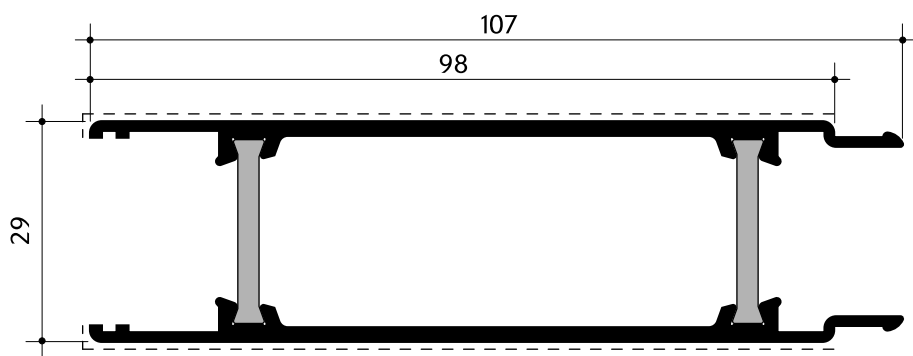
**78 THP.021**

Peso 1905 gr/m	
Jx 966692 mm <sup>4</sup>	Jy 74536 mm <sup>4</sup>
sup. vista: mm 163	



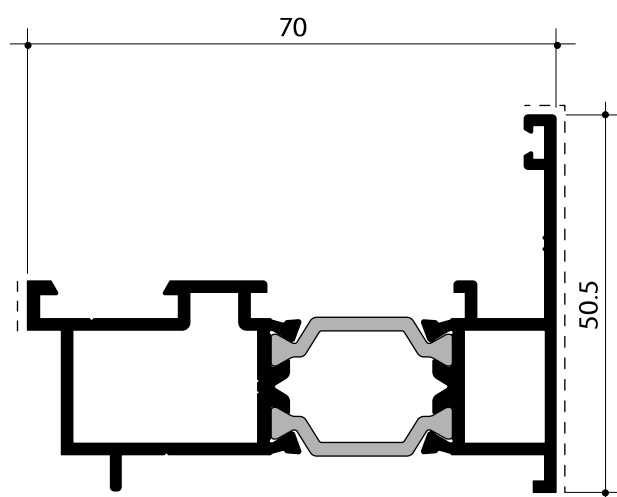
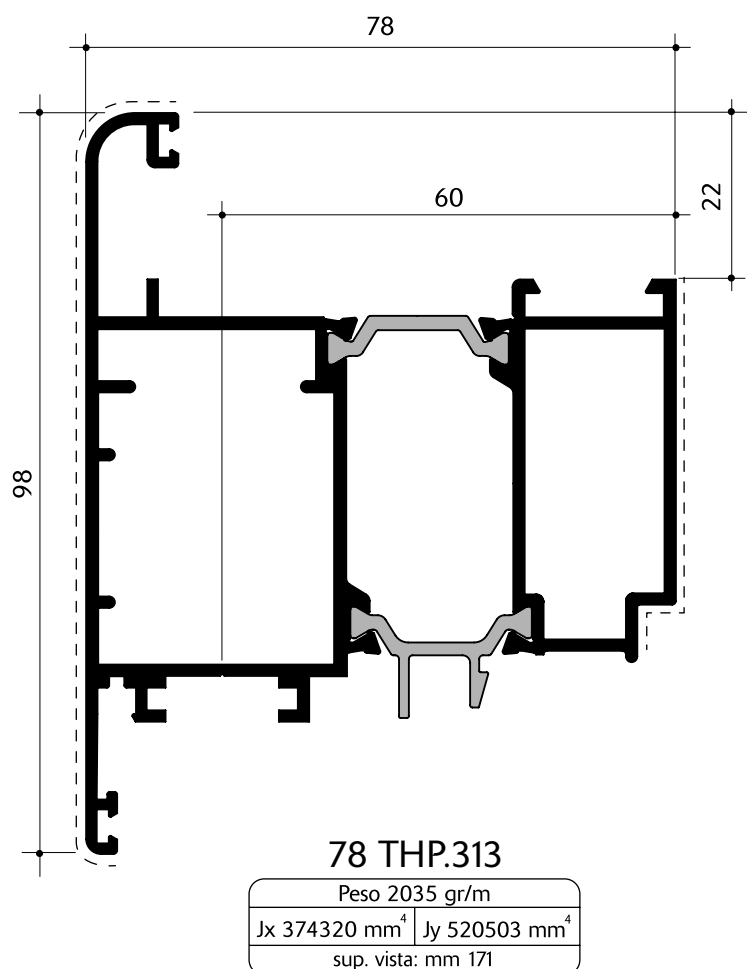
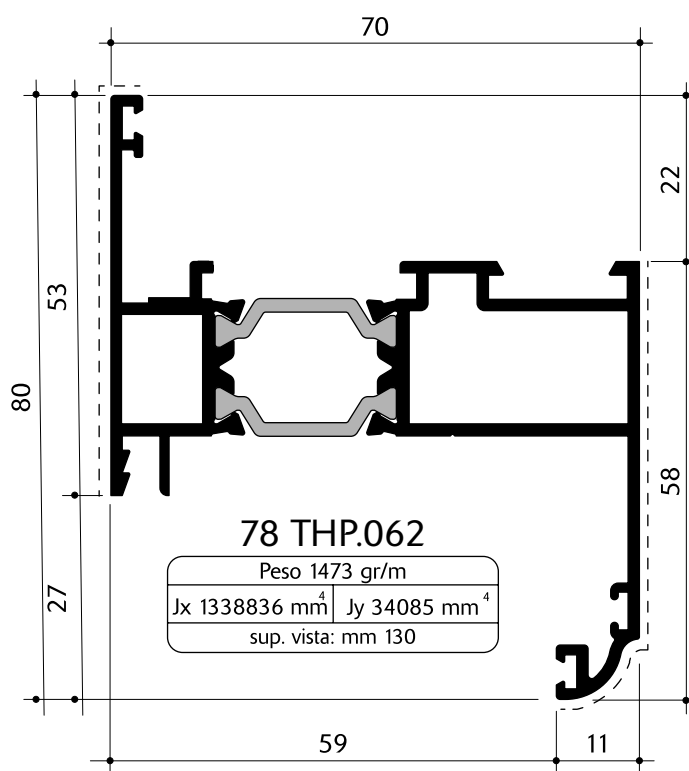
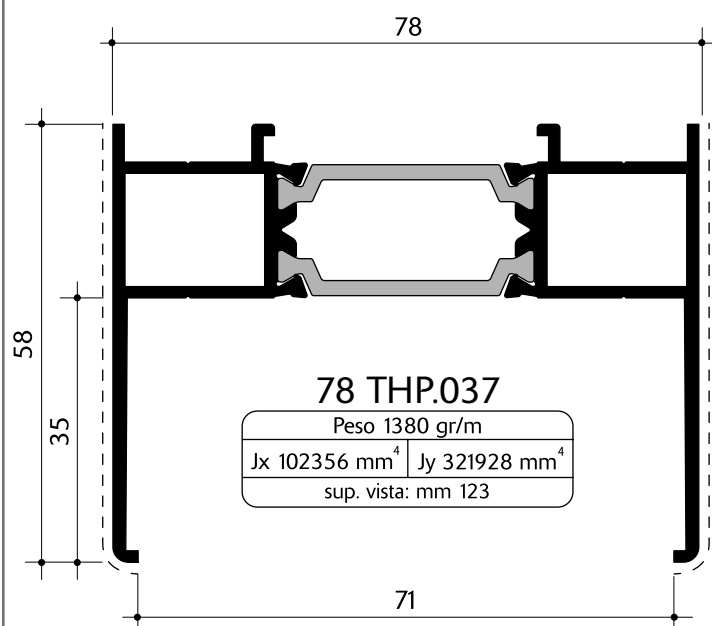
**78 THP.020**

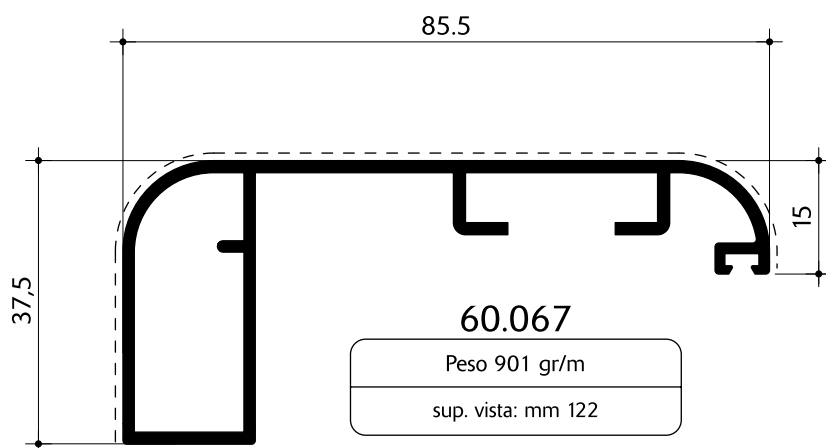
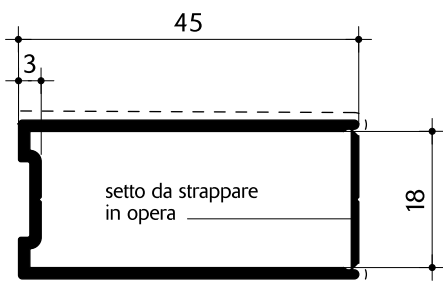
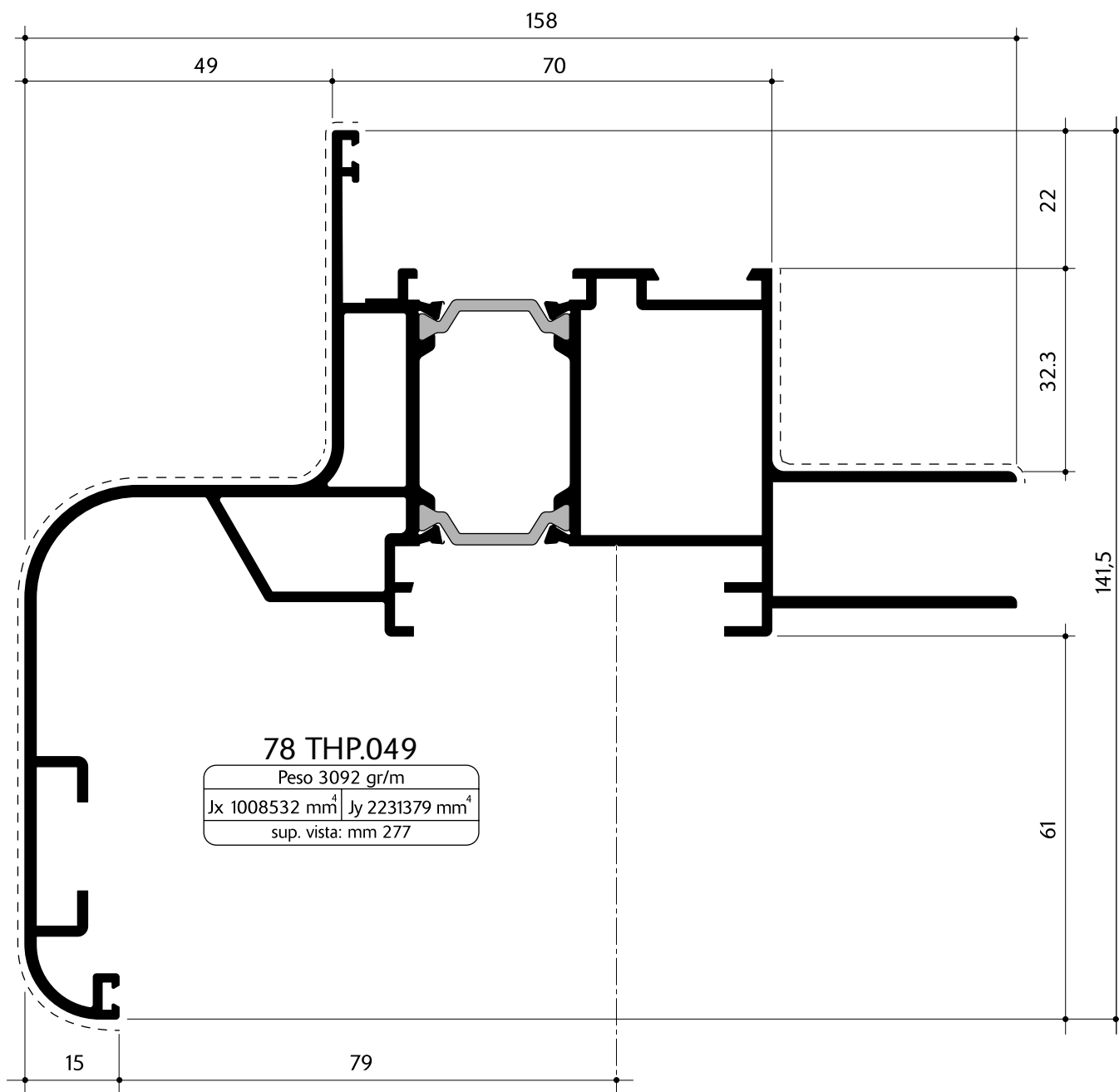
Peso 3109 gr/m	
Jx 1700374 mm <sup>4</sup>	Jy 405999 mm <sup>4</sup>
sup. vista: mm 250	



**78 TH.033**

Peso 1320 gr/m	
sup. vista: mm 200	





**60.042**

Peso 1922 gr/m

Jx 438939 mm<sup>4</sup> Jy 1649050 mm<sup>4</sup>

sup. vista: mm 236

**60.026**

Peso 1347 gr/m

Jx 651141 mm<sup>4</sup> Jy 375515 mm<sup>4</sup>

sup. vista: mm 204

**60.025**

Peso 1226 gr/m

Jx 314539 mm<sup>4</sup> Jy 346025 mm<sup>4</sup>

sup. vista: mm 174

**60.024**

Peso 1004 gr/m

Jx 100608 mm<sup>4</sup> Jy 296260 mm<sup>4</sup>

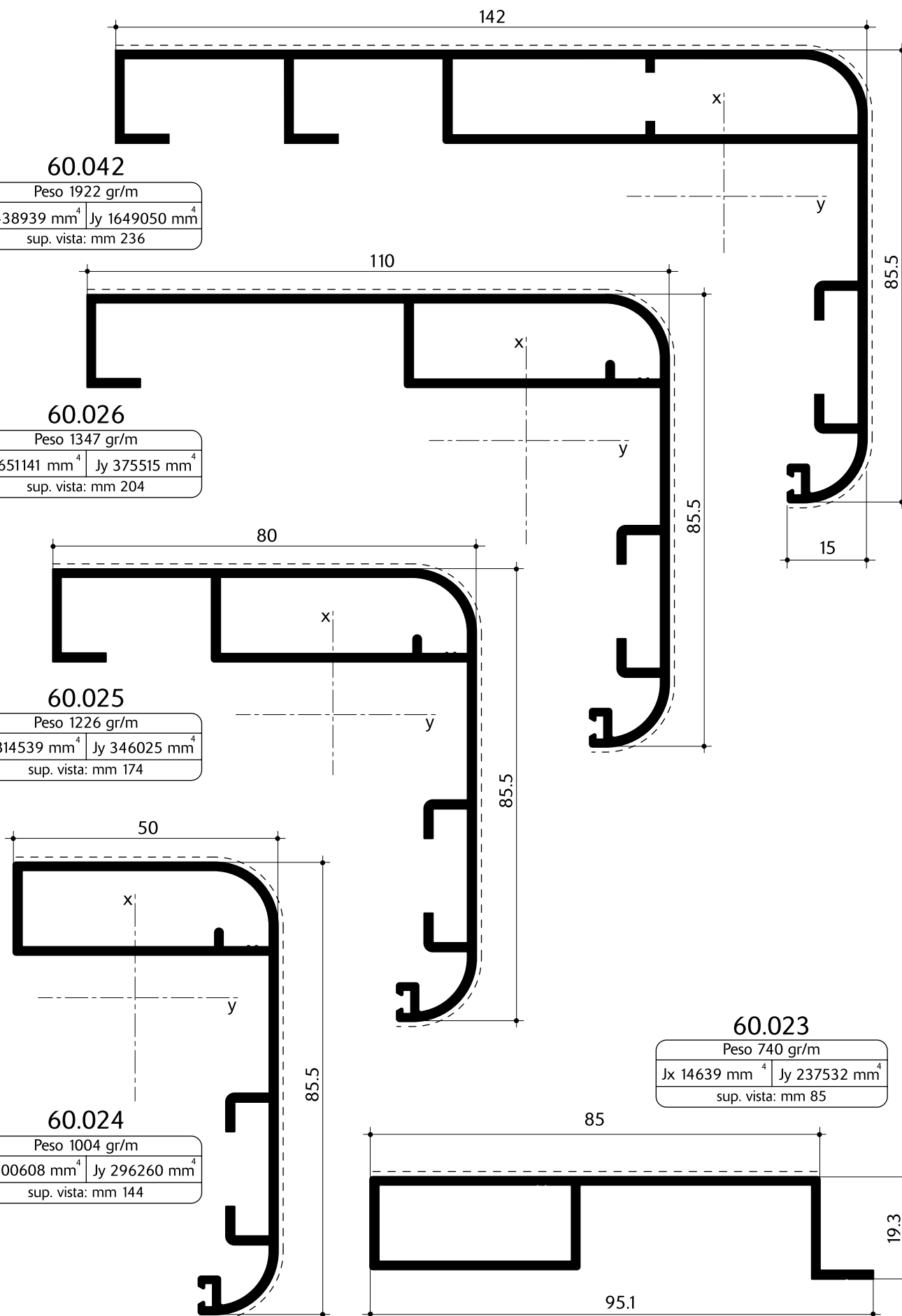
sup. vista: mm 144

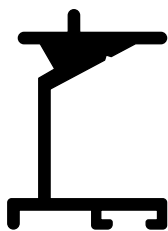
**60.023**

Peso 740 gr/m

Jx 14639 mm<sup>4</sup> Jy 237532 mm<sup>4</sup>

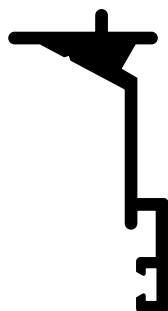
sup. vista: mm 85





**70.6007**

Peso 369 gr/m



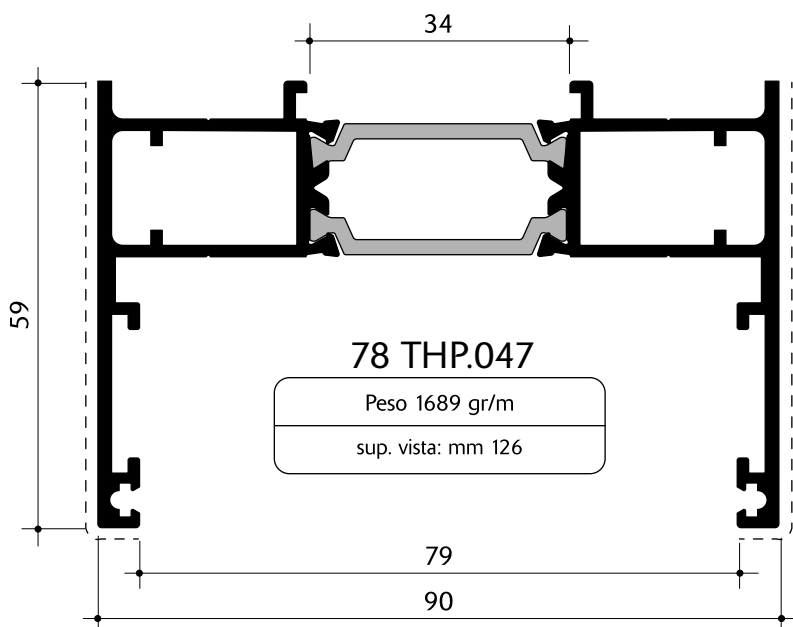
**70.6008**

Peso 358 gr/m



**70.6010**

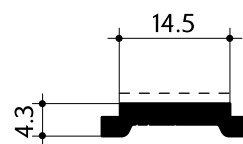
Peso 443 gr/m



**78 THP.047**

Peso 1689 gr/m

sup. vista: mm 126



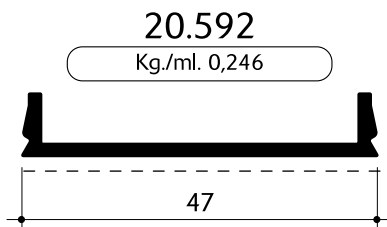
**60.040**

Peso 148 gr/m

Jx 67 mm<sup>4</sup>

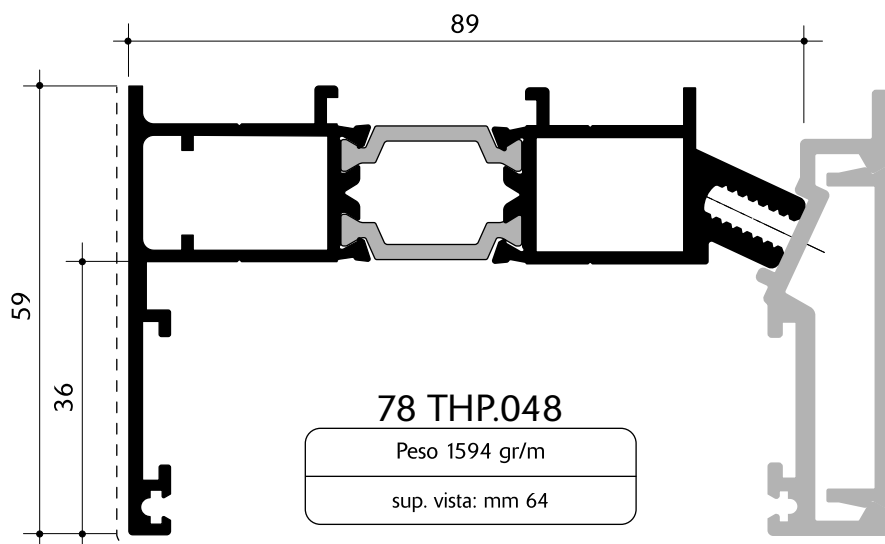
Jy 1732 mm<sup>4</sup>

sup. vista: mm 14.5



**20.592**

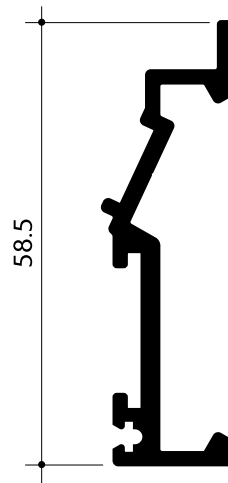
Kg./ml. 0,246



**78 THP.048**

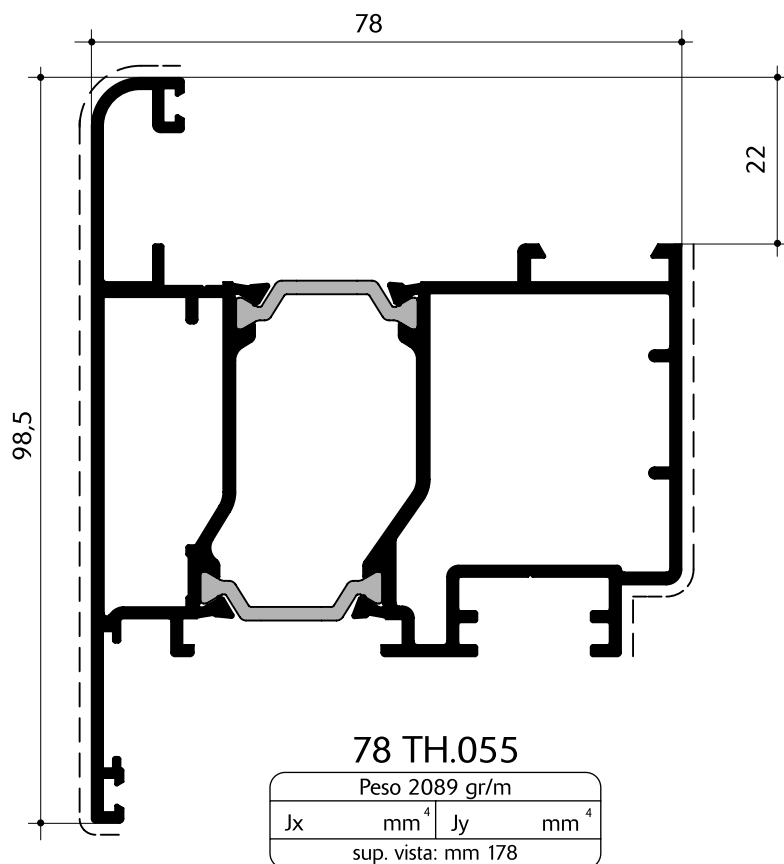
Peso 1594 gr/m

sup. vista: mm 64



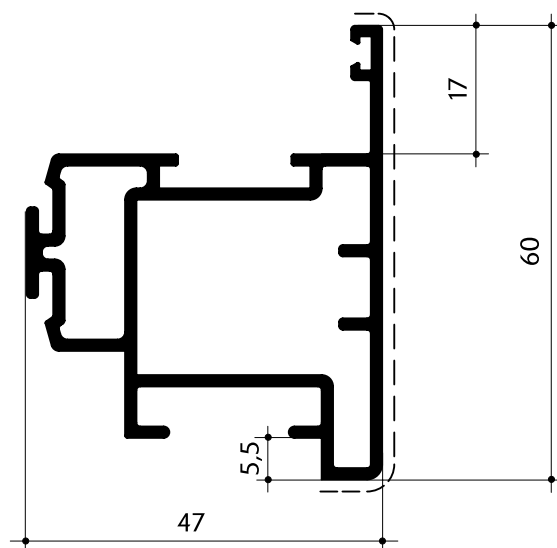
**70.9816**

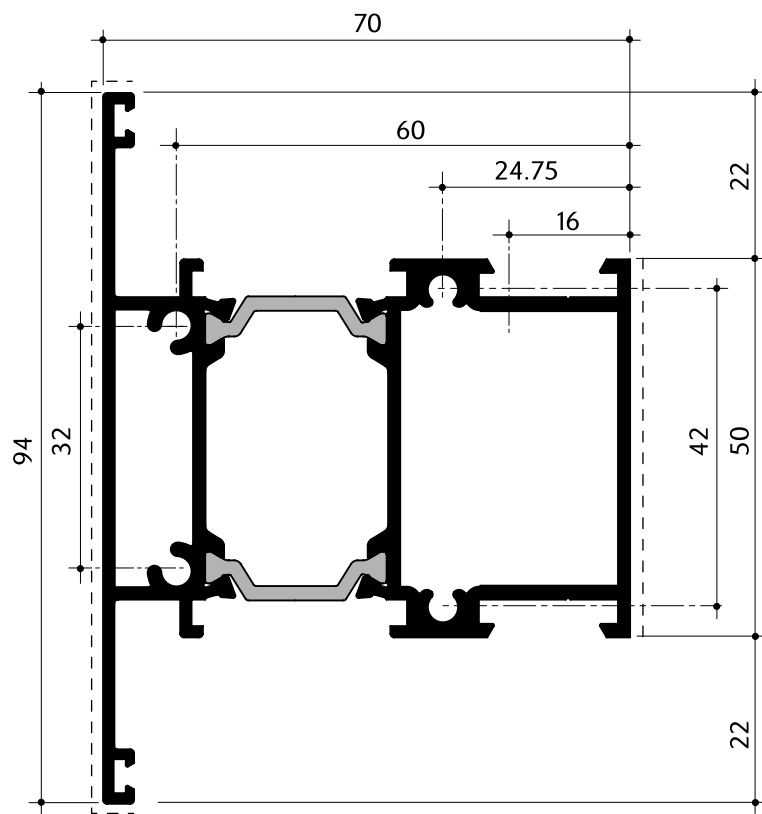
Peso 513 gr/m



**78.9861**

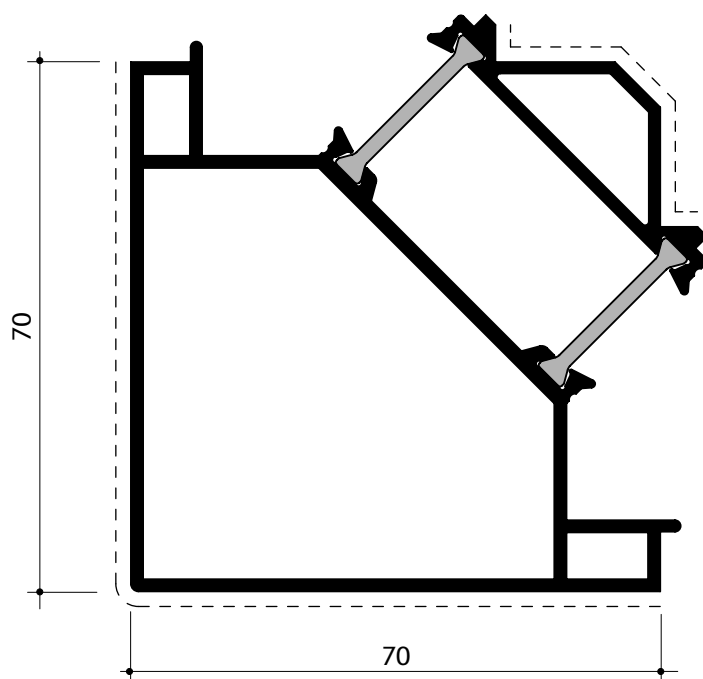
Peso 1066 gr/m			
Jx	mm <sup>4</sup>	Jy	mm <sup>4</sup>
sup. vista: mm 72			





**78 THP.081**

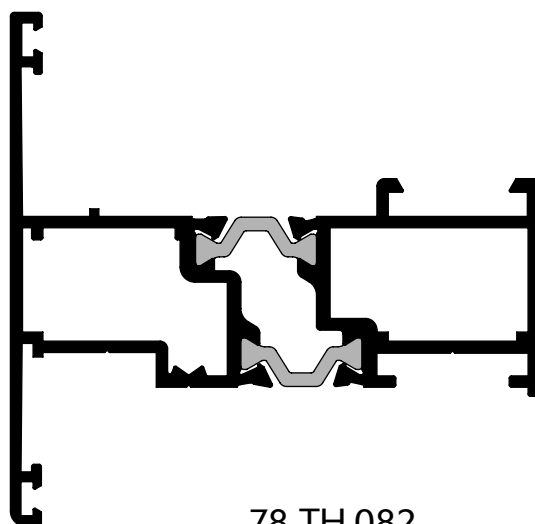
Peso 2015 gr/m	
Jx 309115 mm <sup>4</sup>	Jy 441231 mm <sup>4</sup>
sup. vista: mm 152	



**78 THP.057**

Peso 1863 gr/m
sup. vista: mm 180

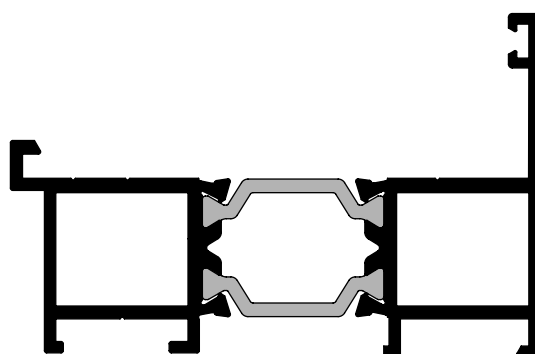




**78 TH.082**

Peso 1460 gr/m

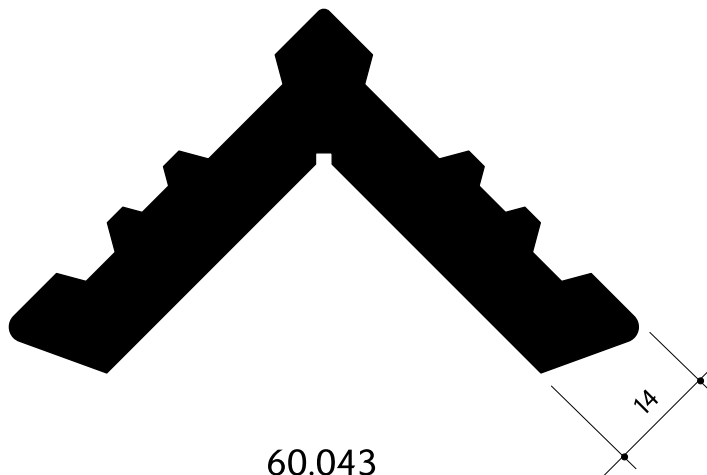
**SOLO A RICHIESTA**



**78 TH.083**

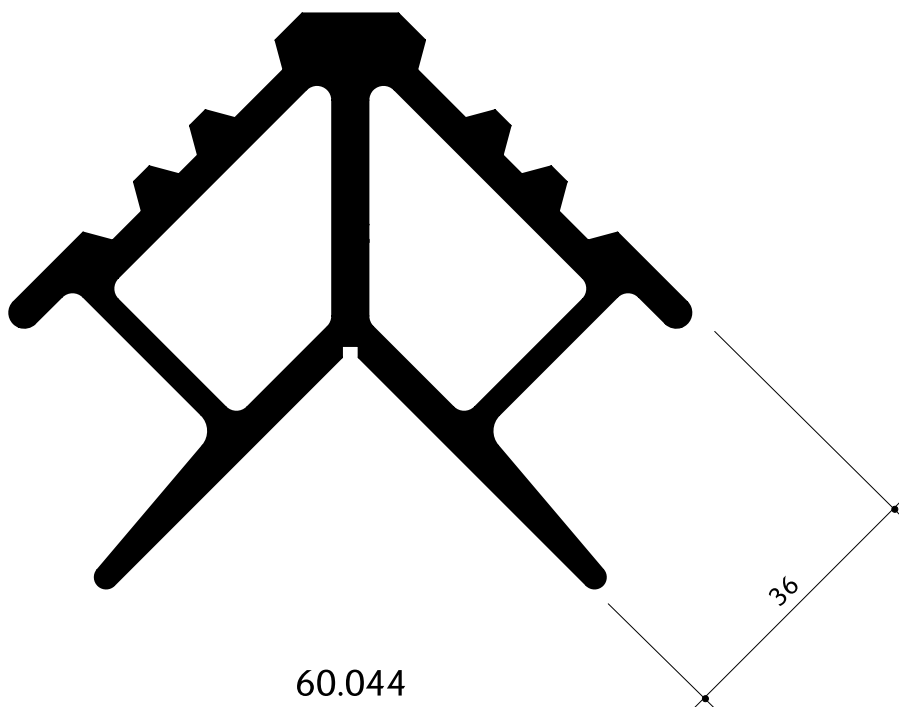
Peso 1216 gr/m

**SOLO A RICHIESTA**



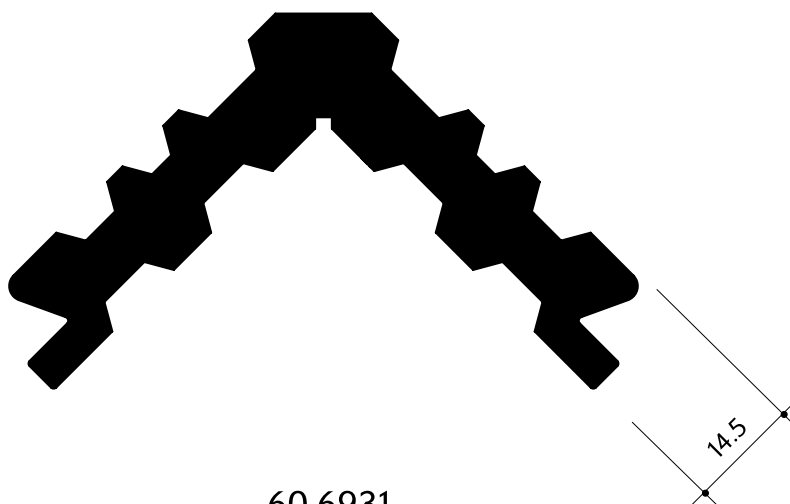
**60.043**

Peso 3310 gr/m	
Jx 152253 mm <sup>4</sup>	Jy 550648 mm <sup>4</sup>



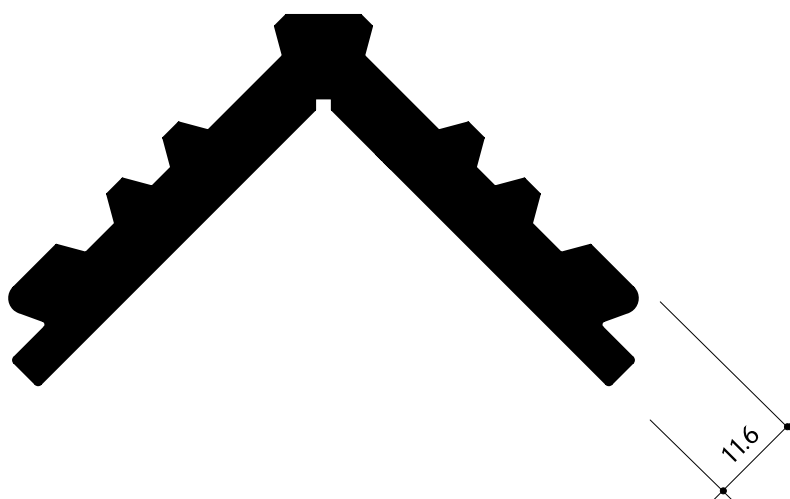
**60.044**

Peso 3480 gr/m	
Jx 479333 mm <sup>4</sup>	Jy 514726 mm <sup>4</sup>



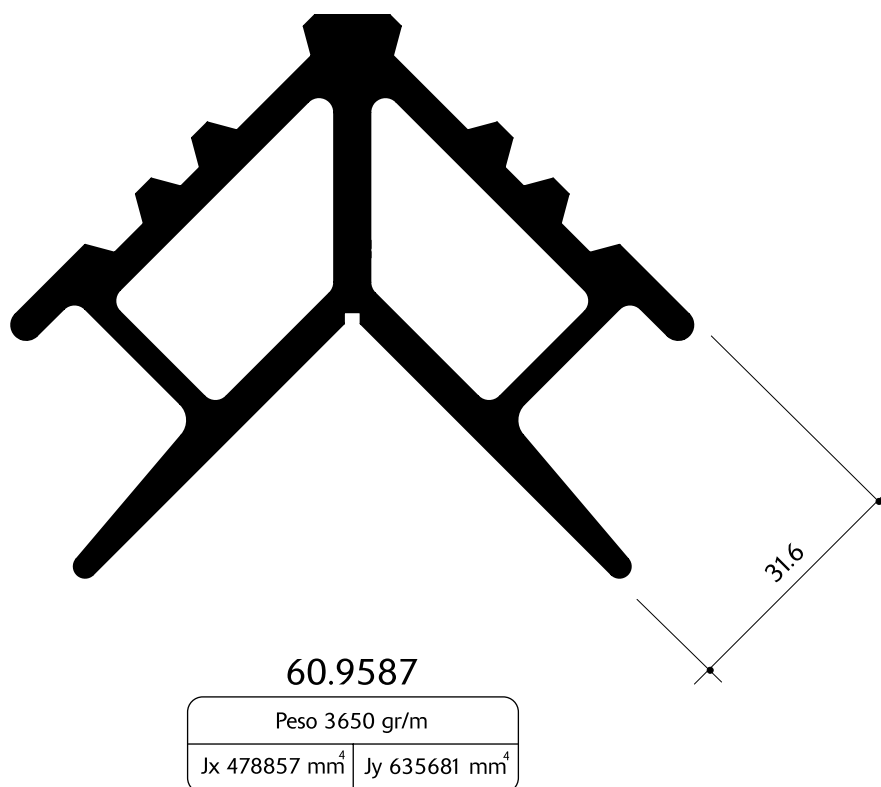
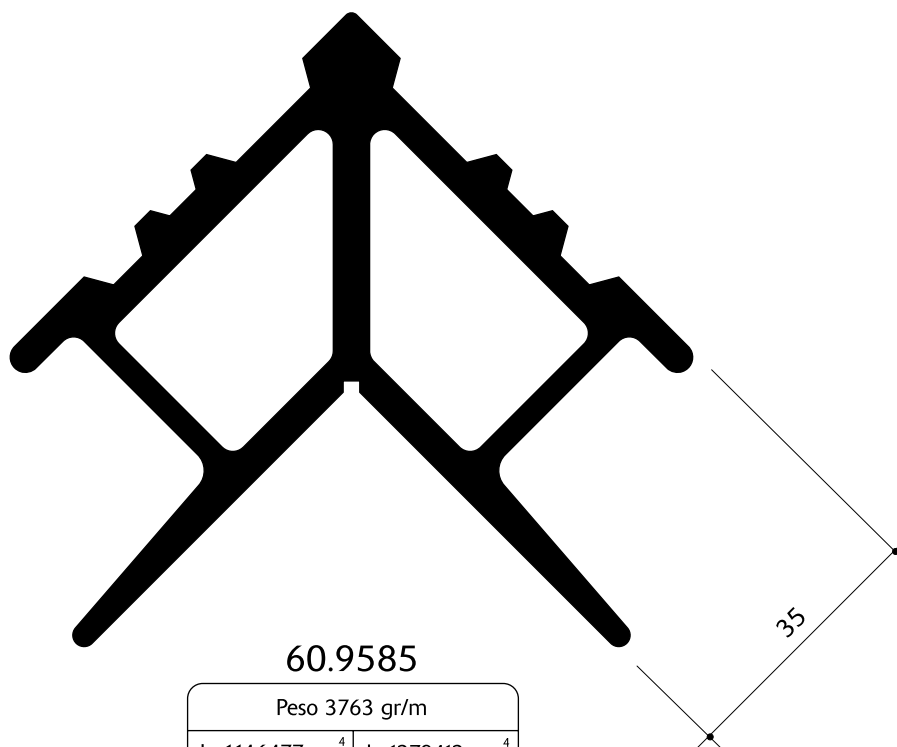
60.6931

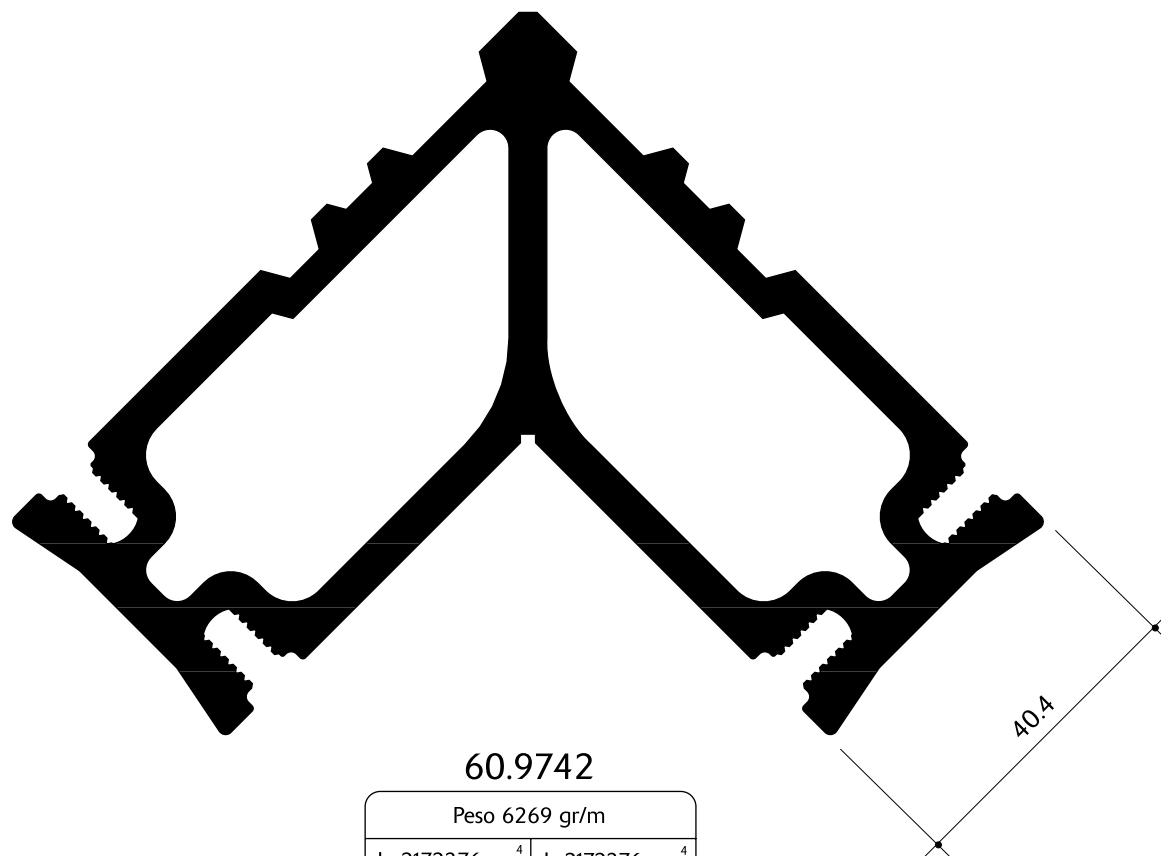
Peso 3445 gr/m	
Jx 222816 mm <sup>4</sup>	Jy 696099 mm <sup>4</sup>

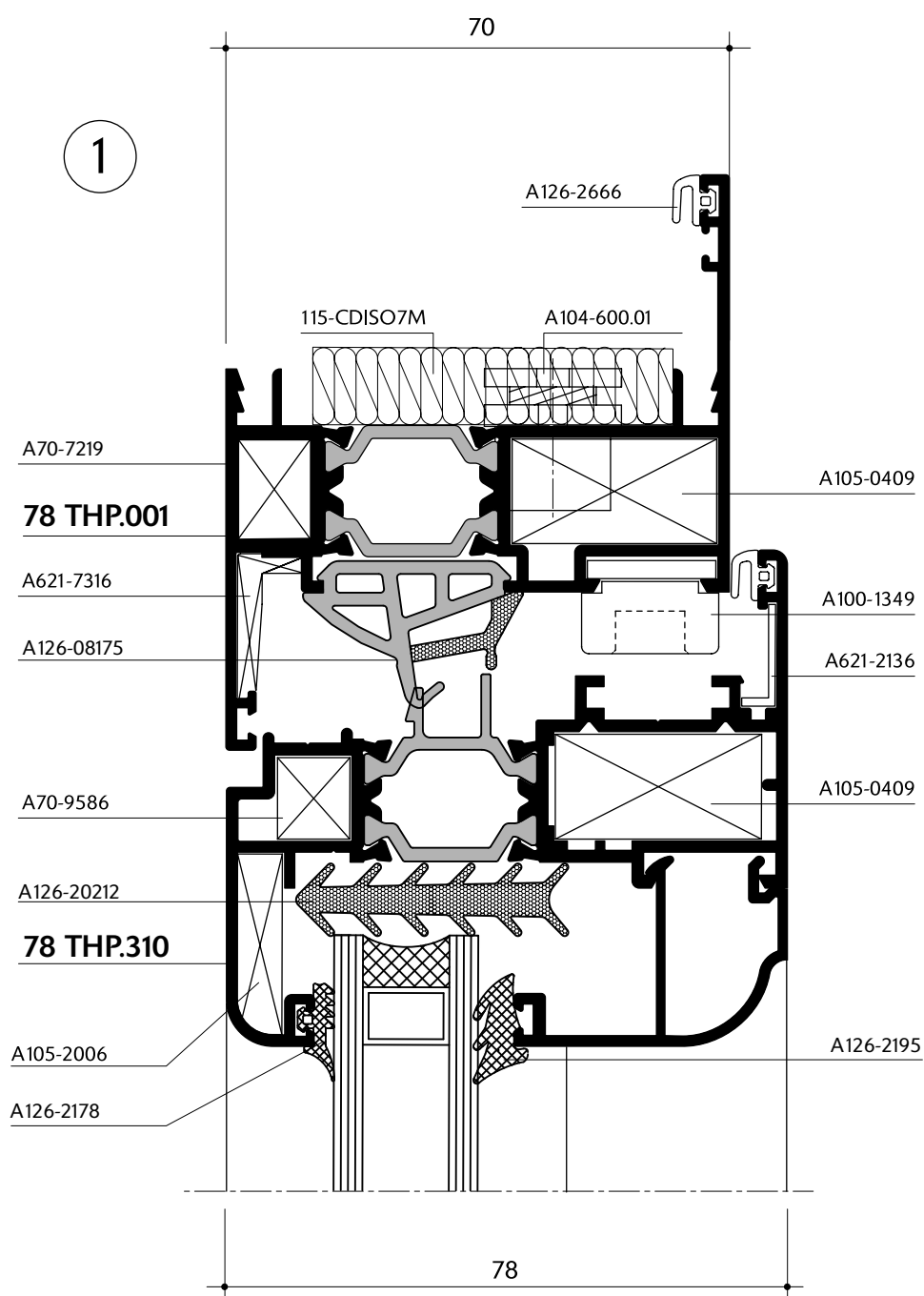
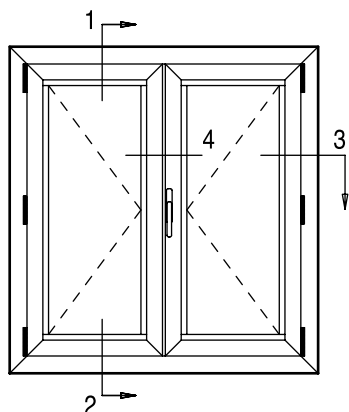


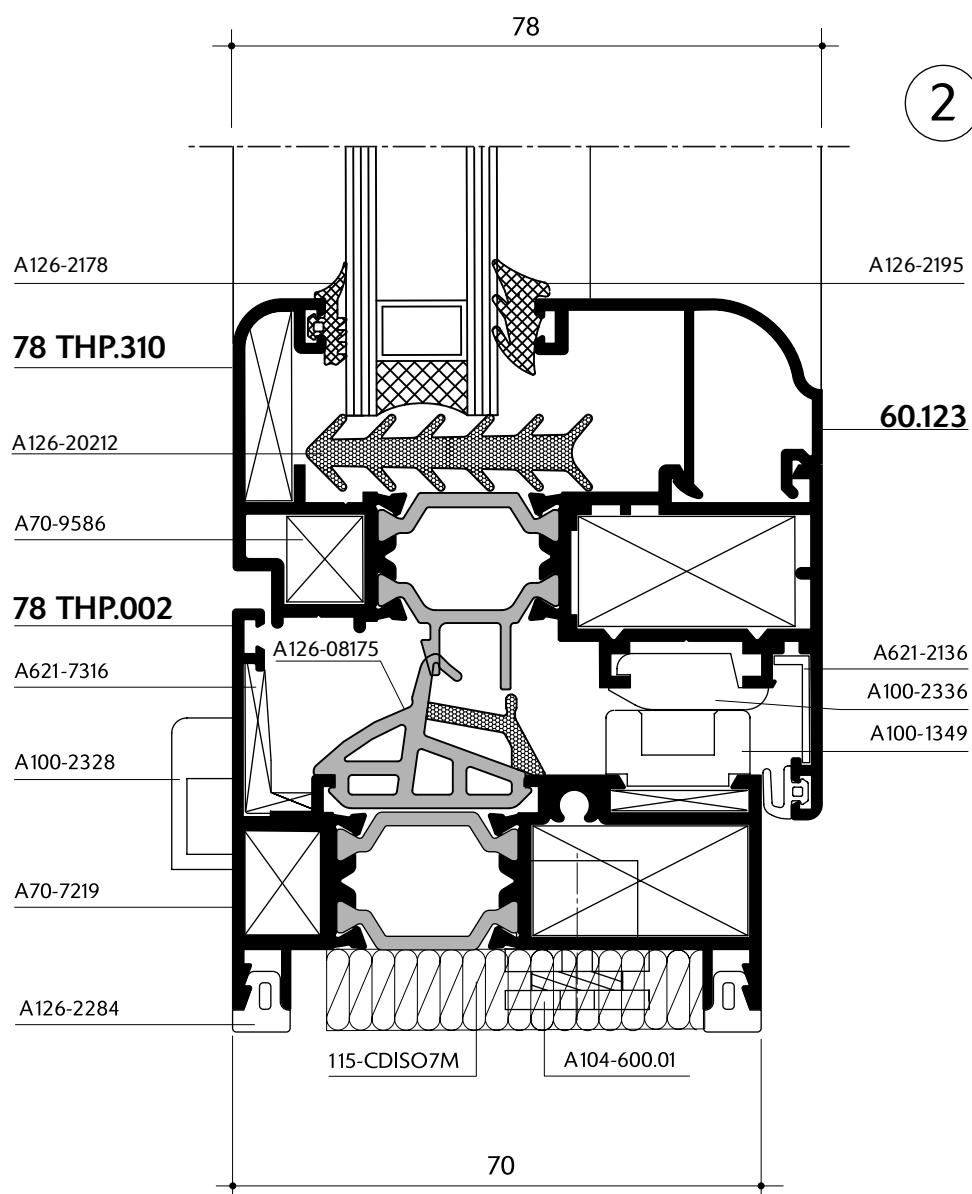
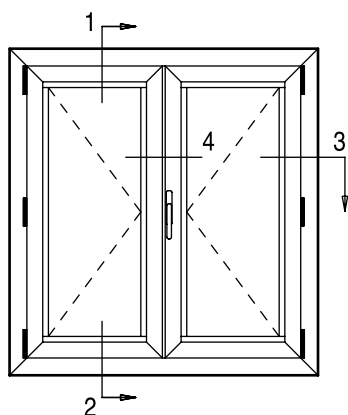
60.9586

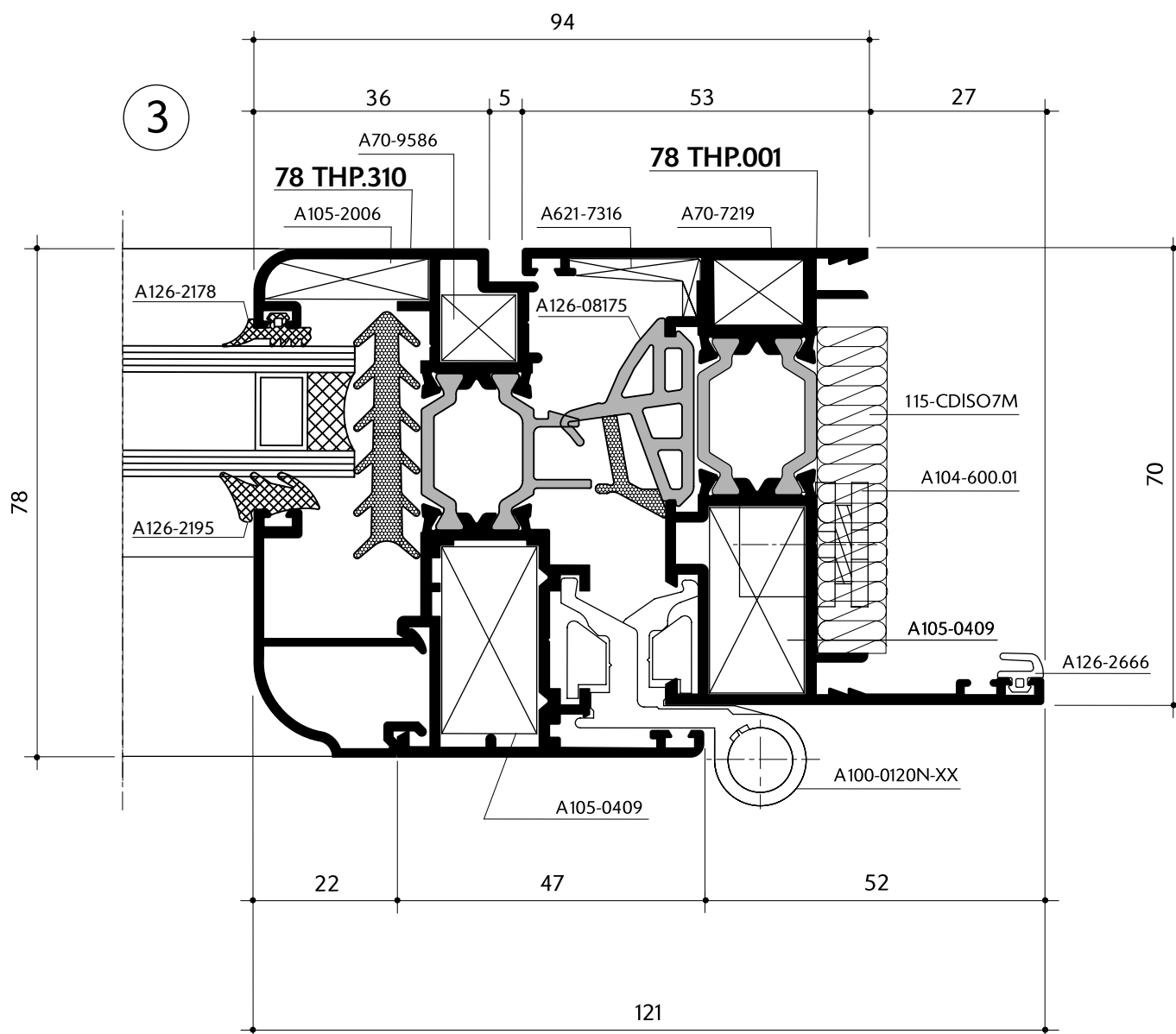
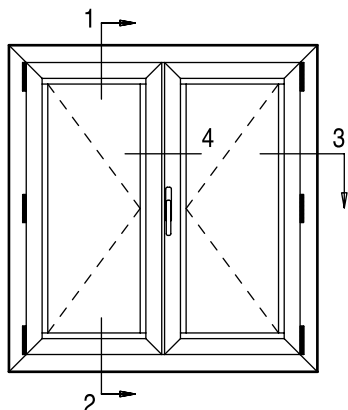
Peso 3110 gr/m	
Jx 197914 mm <sup>4</sup>	Jy 682665 mm <sup>4</sup>



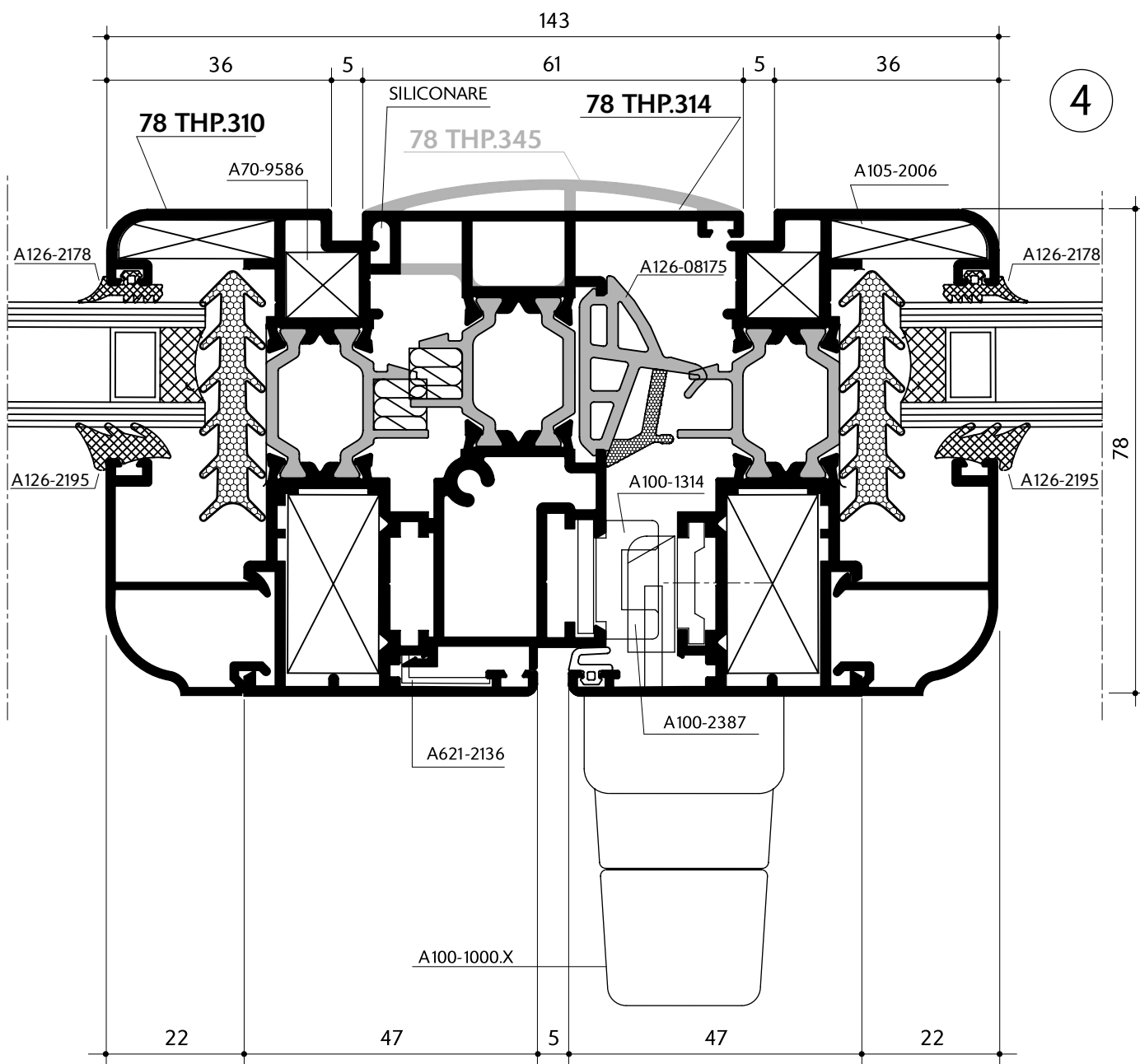
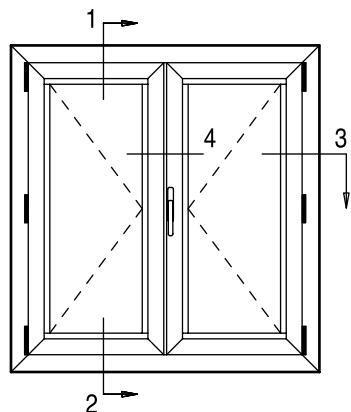


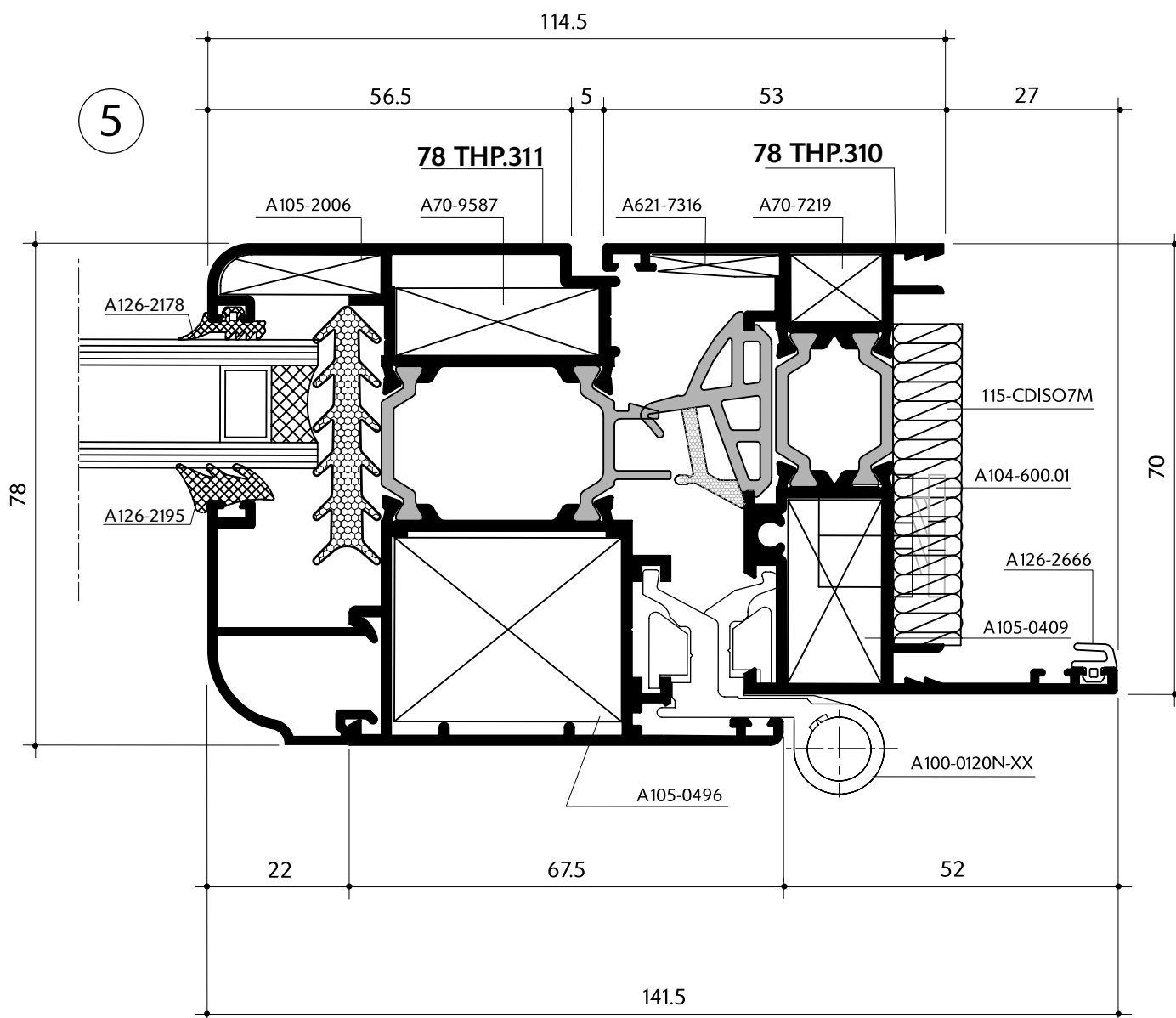
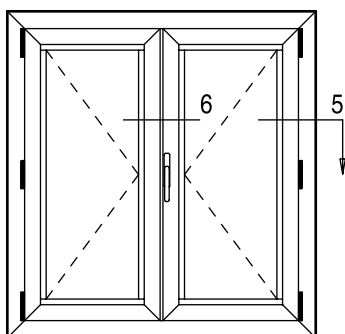


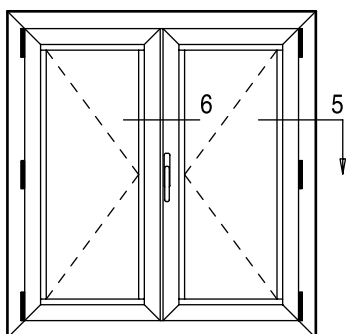




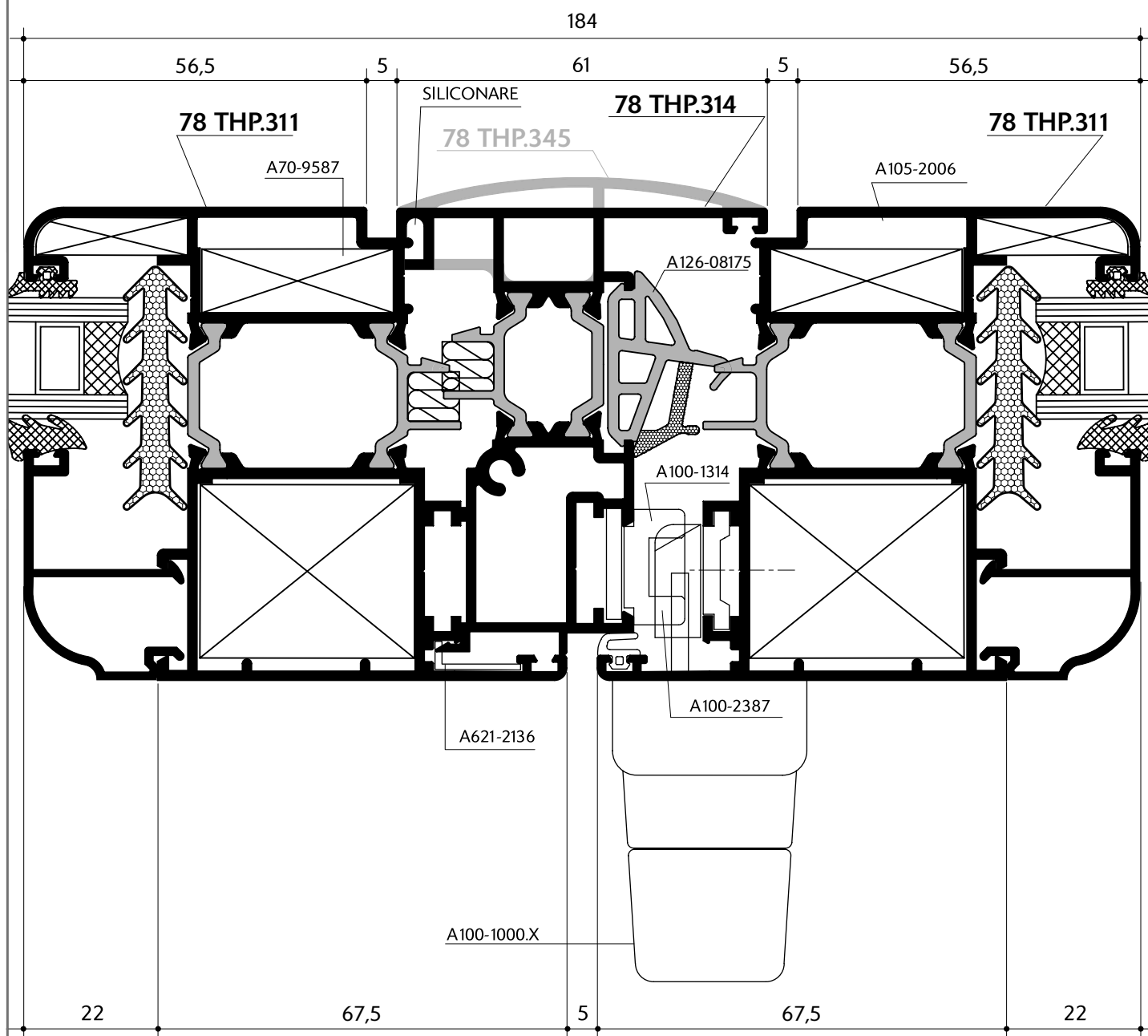


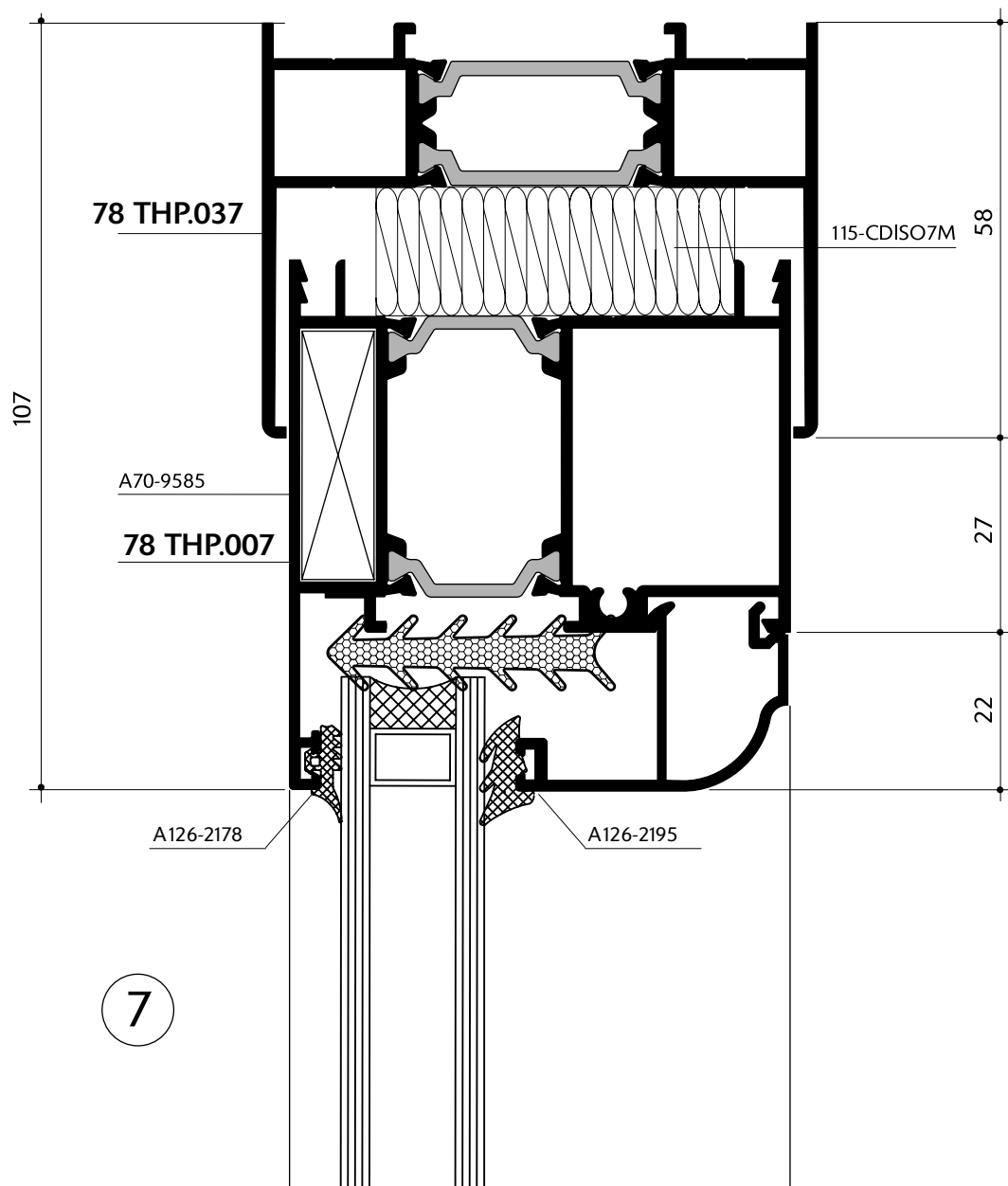
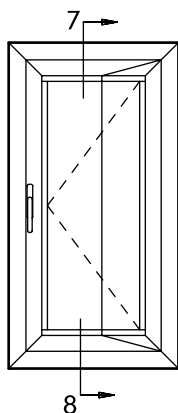


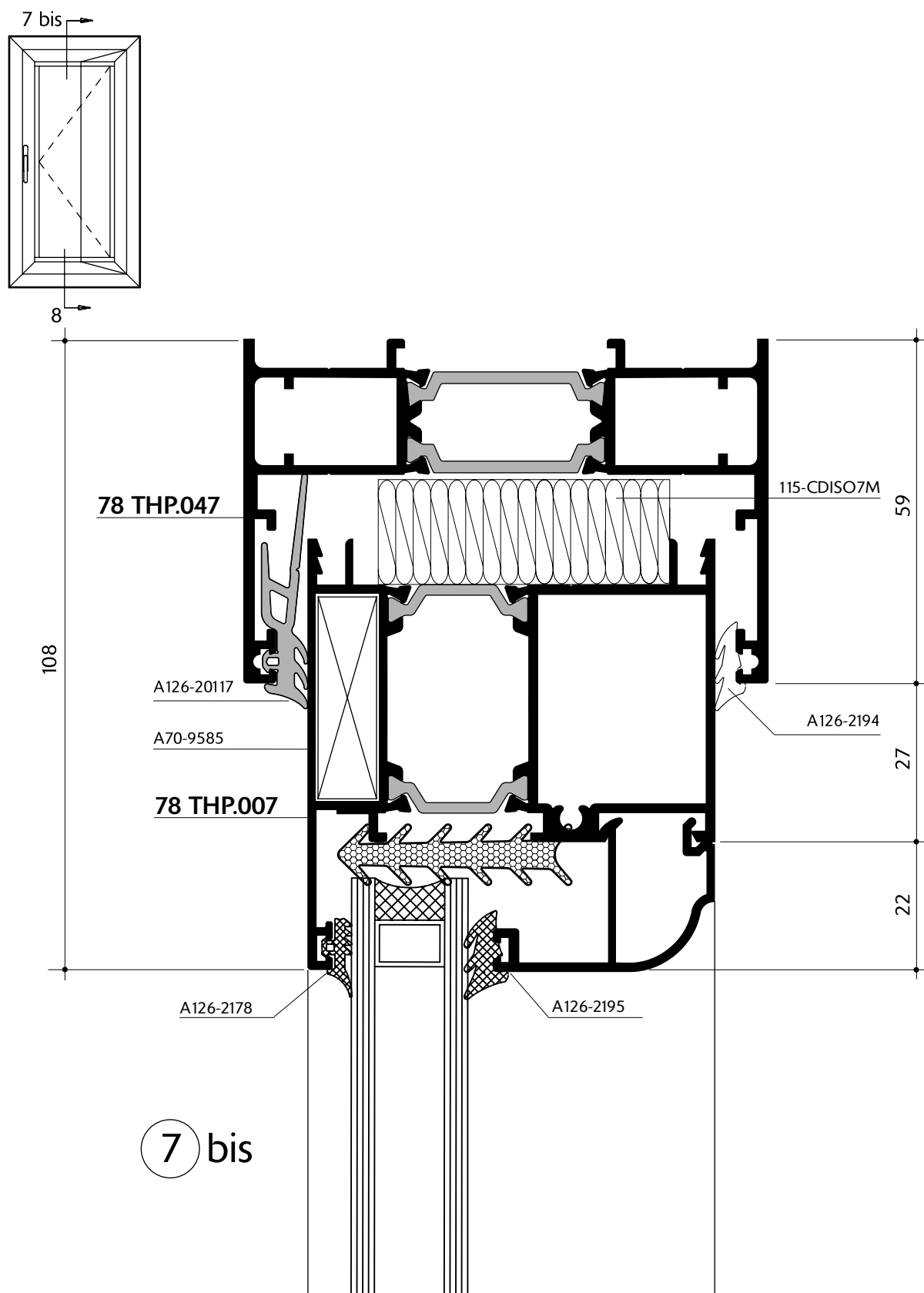


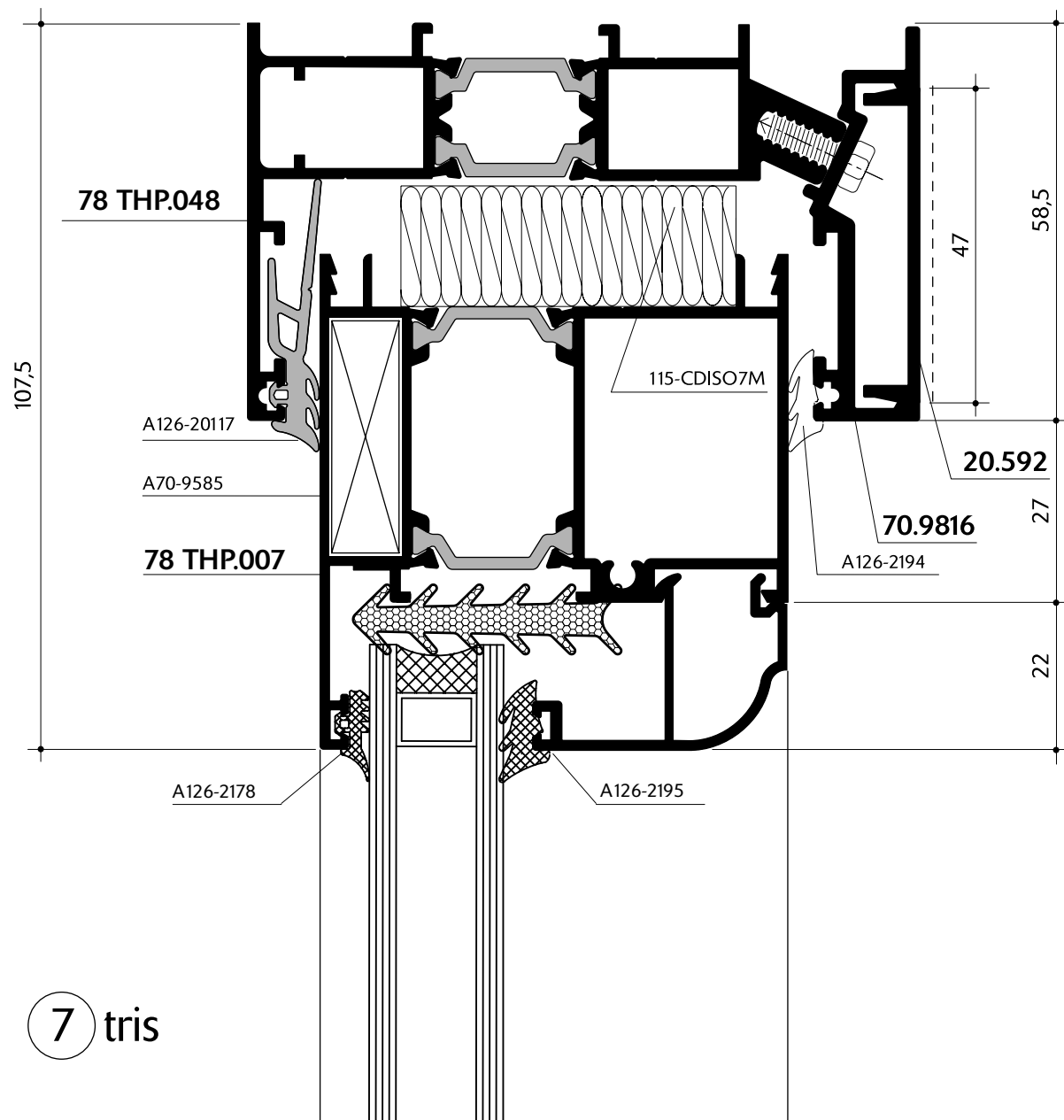
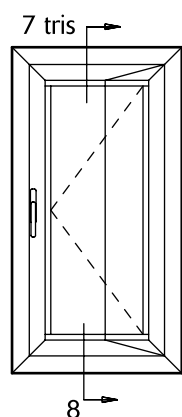


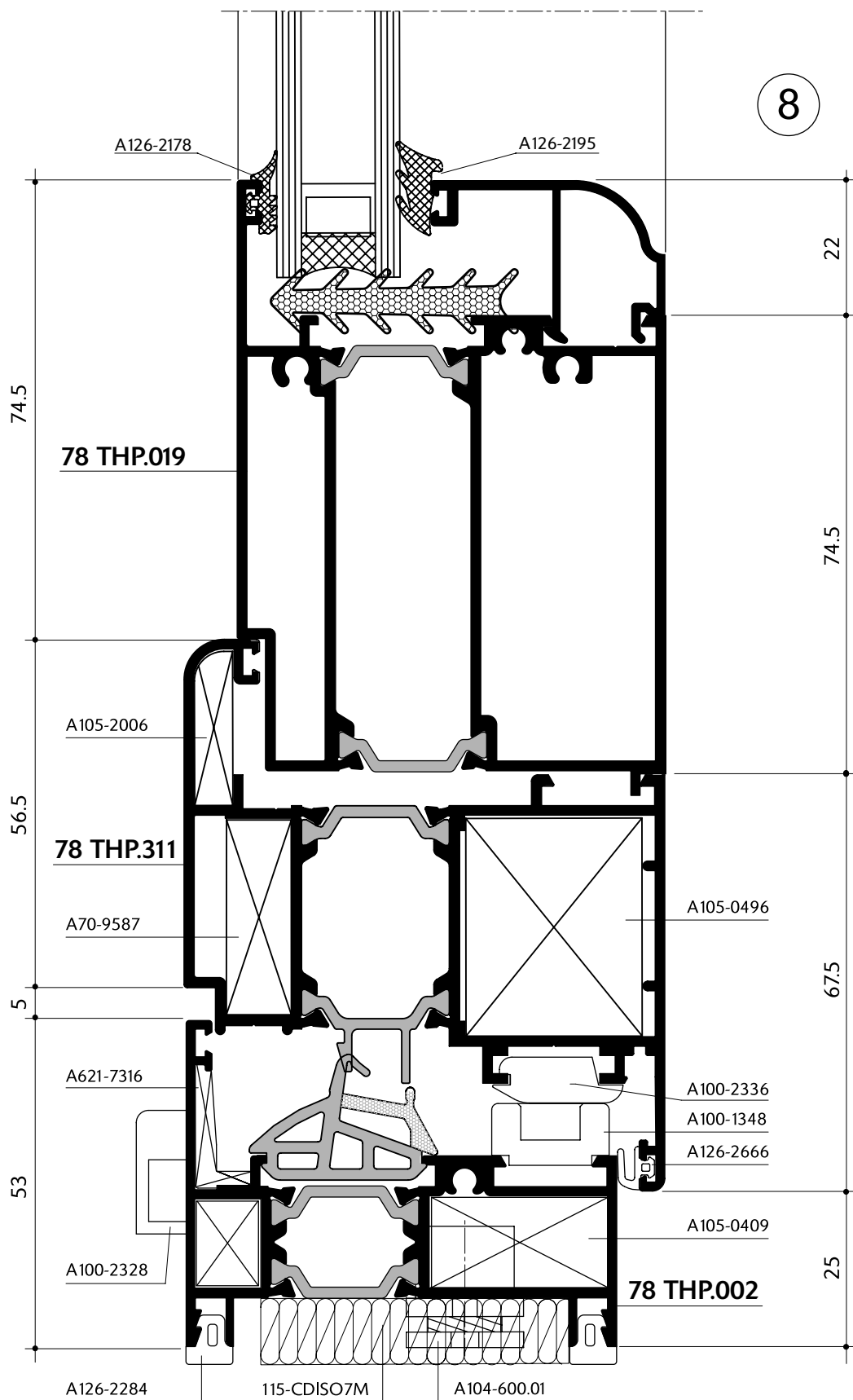
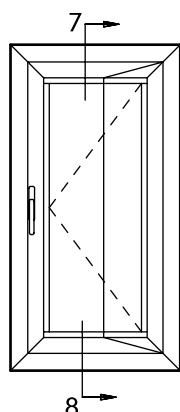
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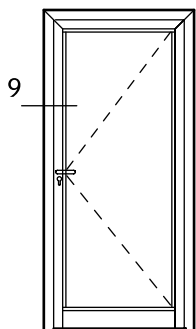




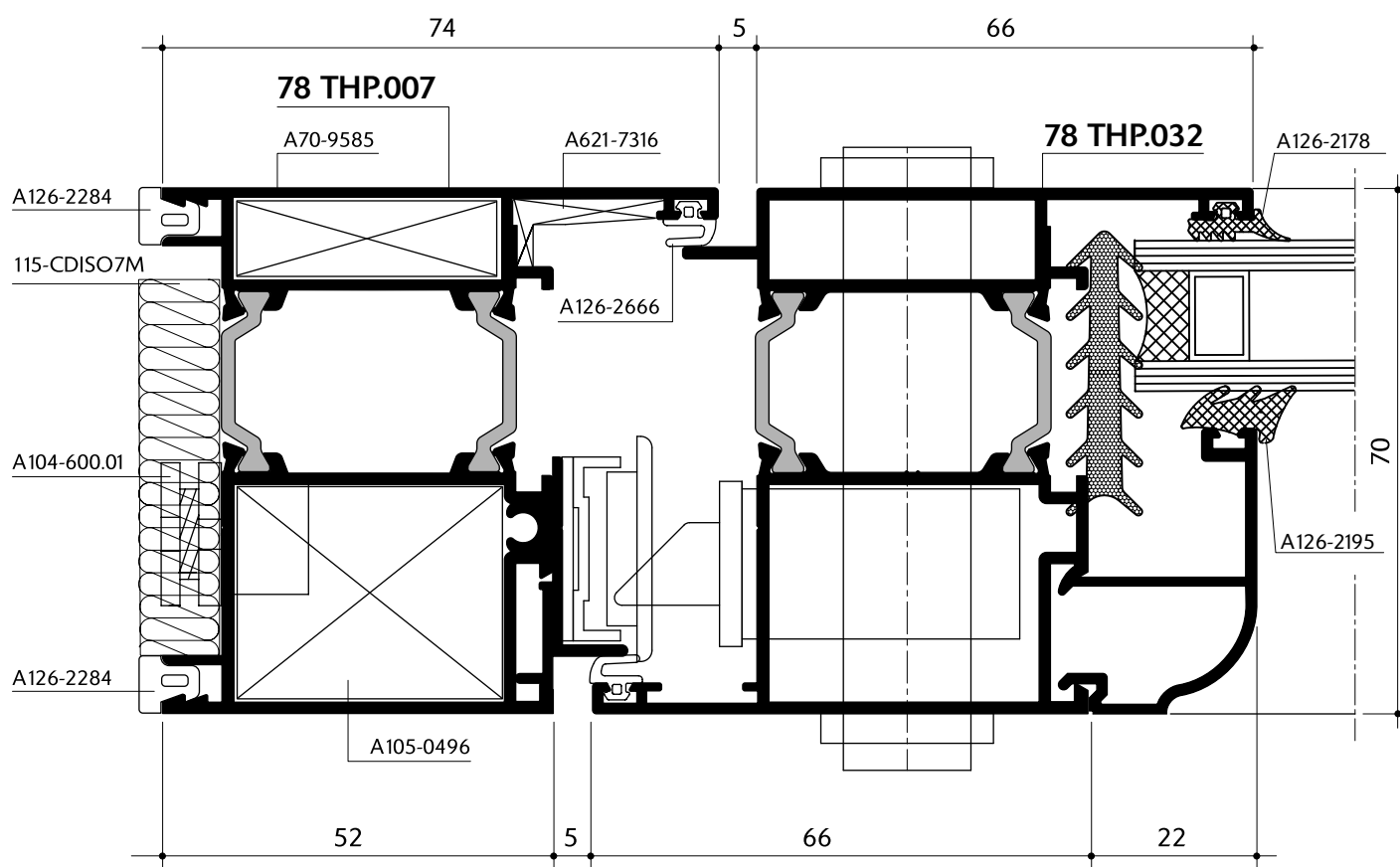




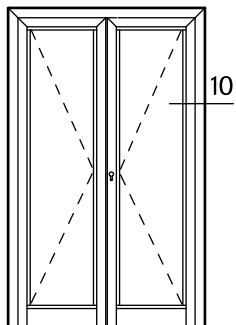




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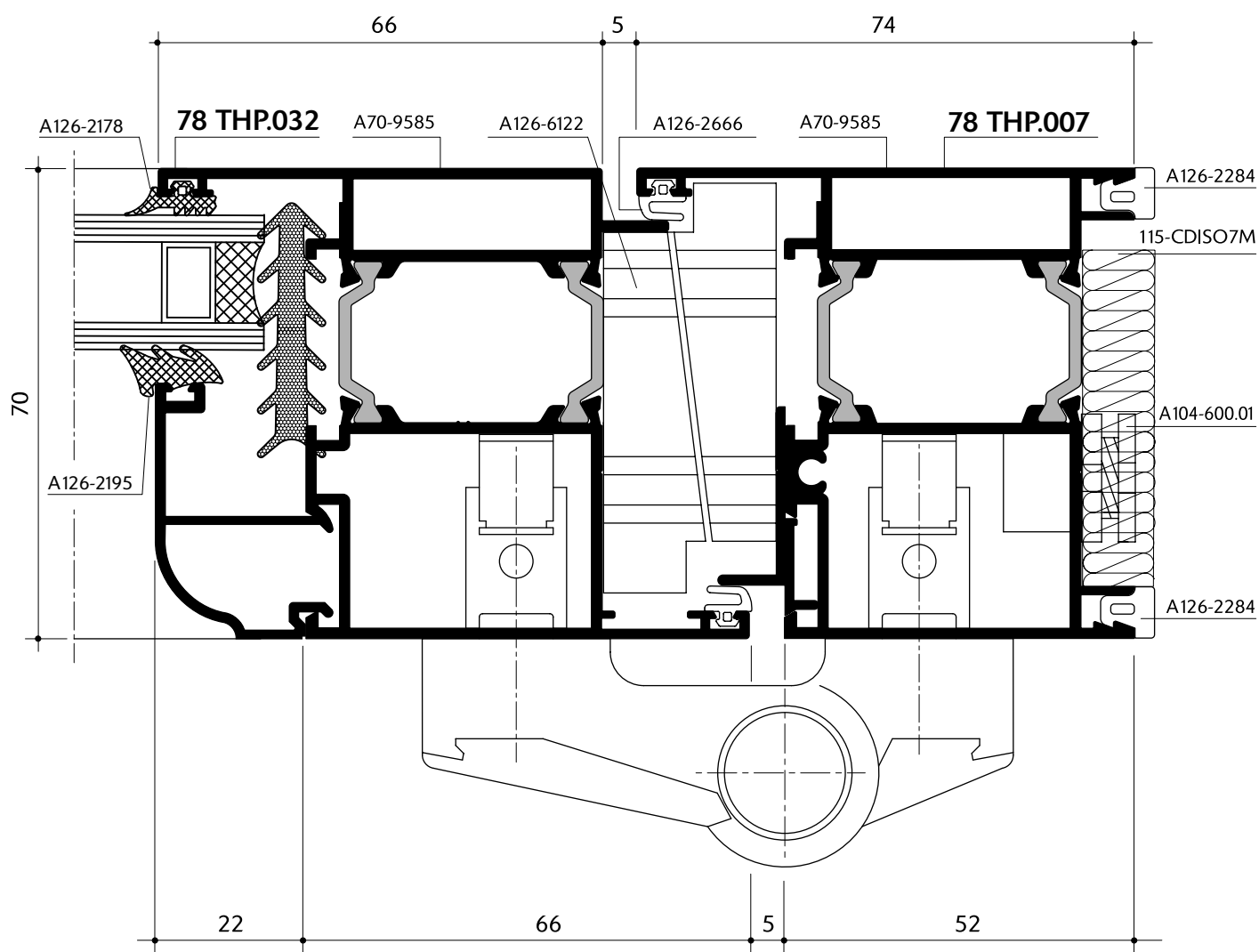


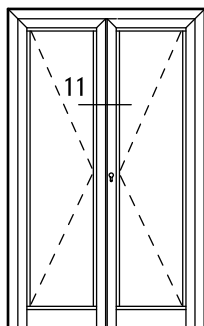




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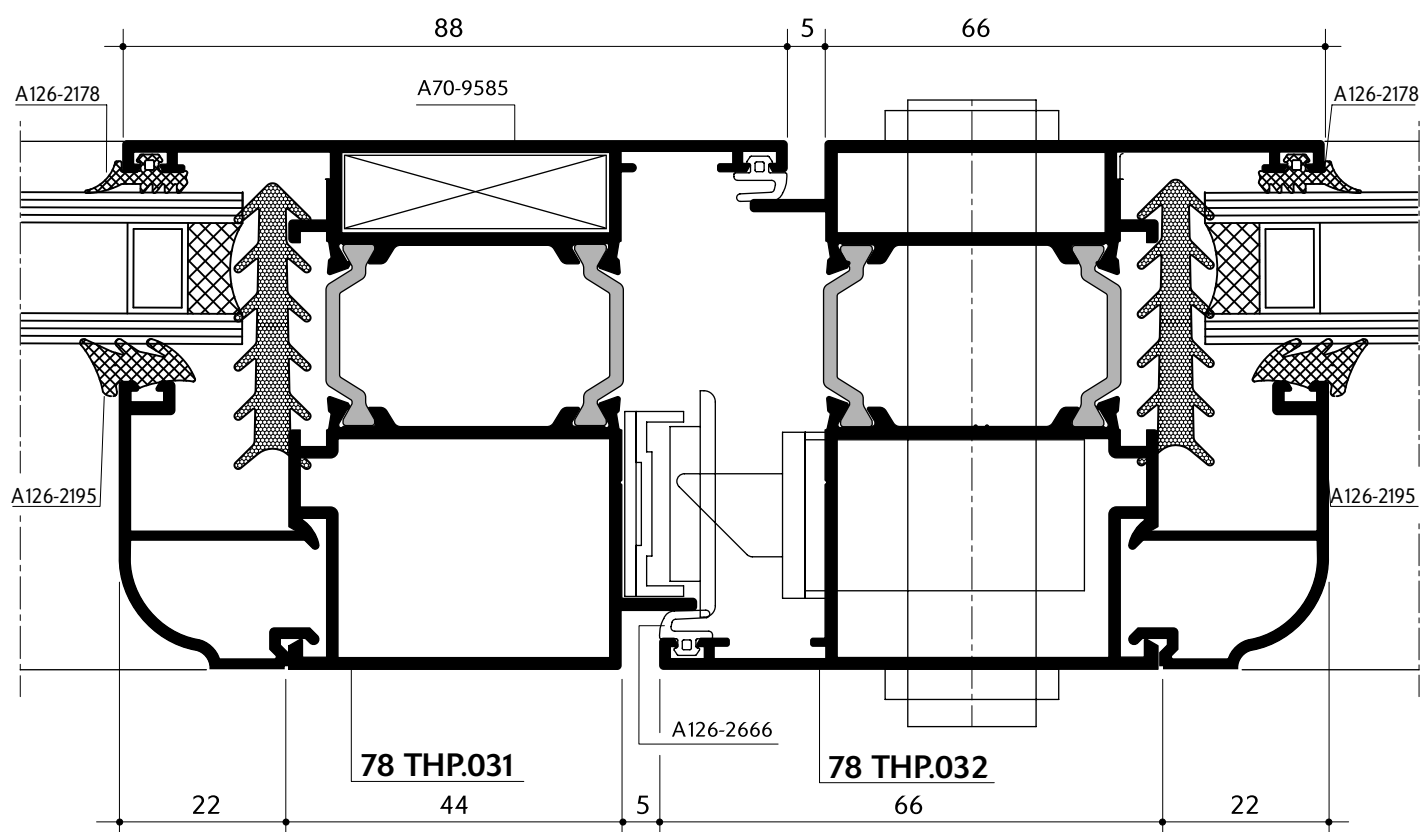
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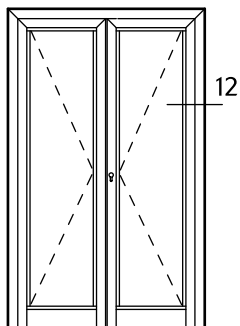




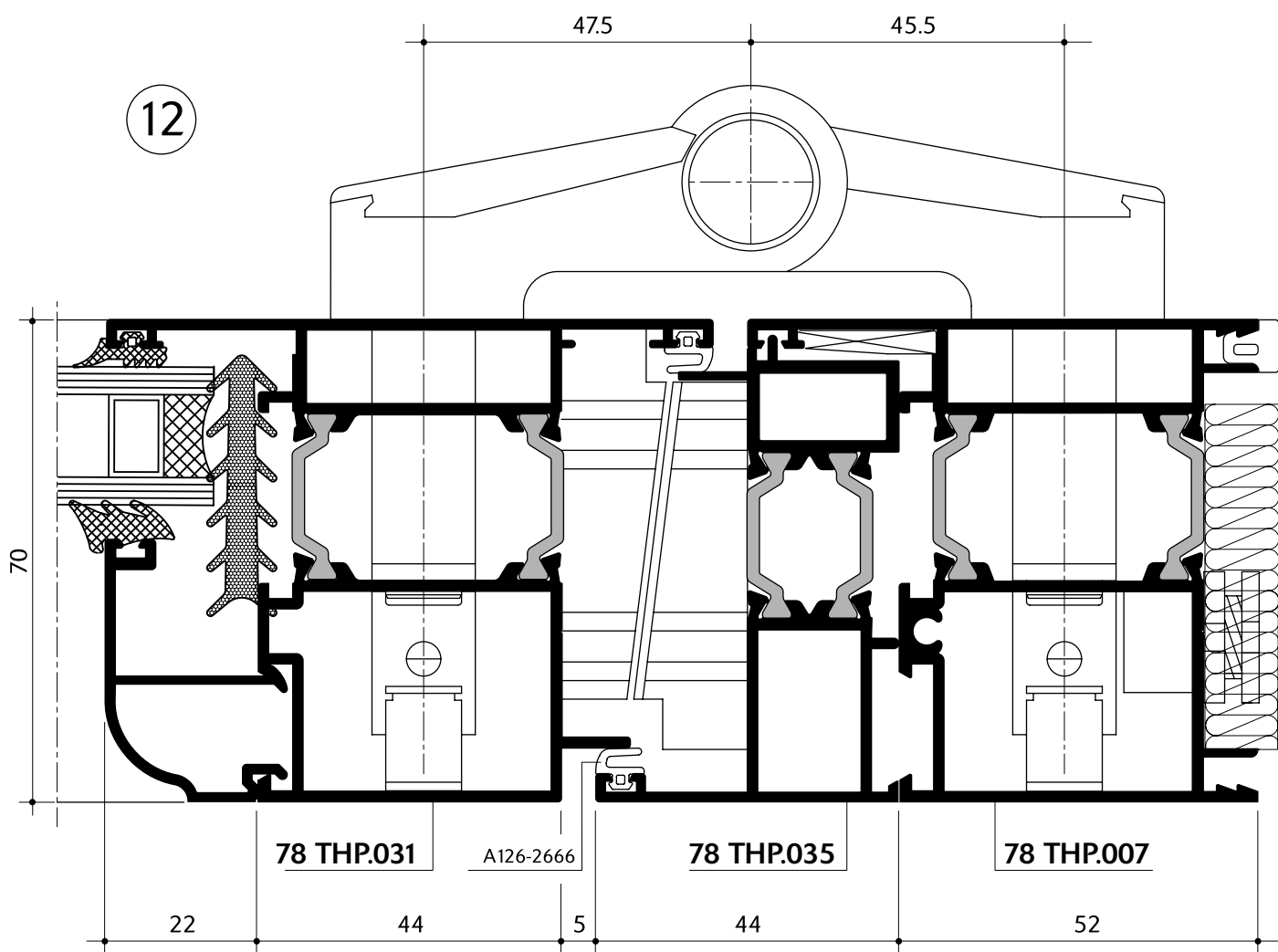
**APERTURA INTERNA**

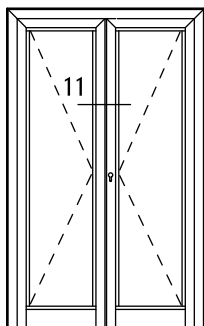
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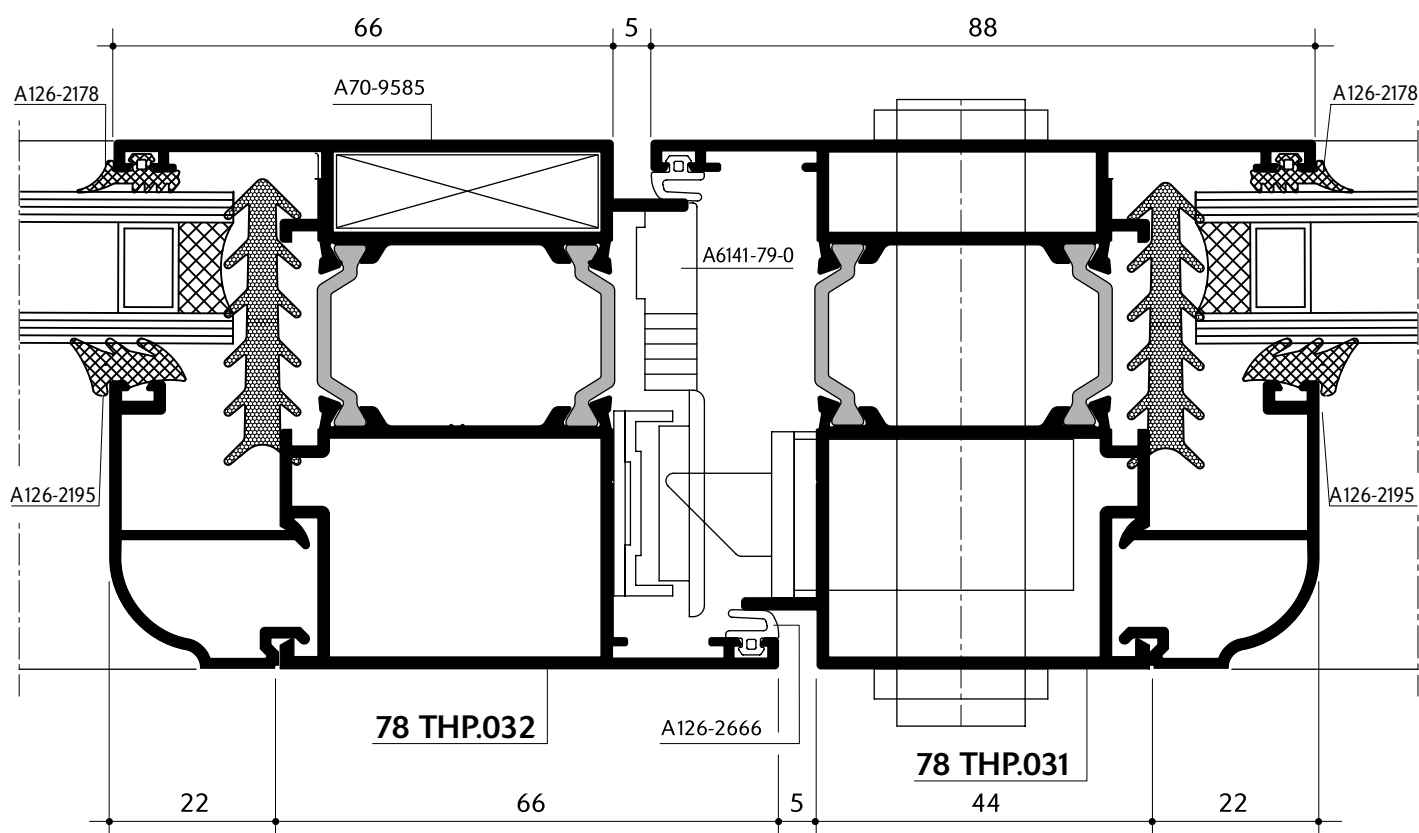
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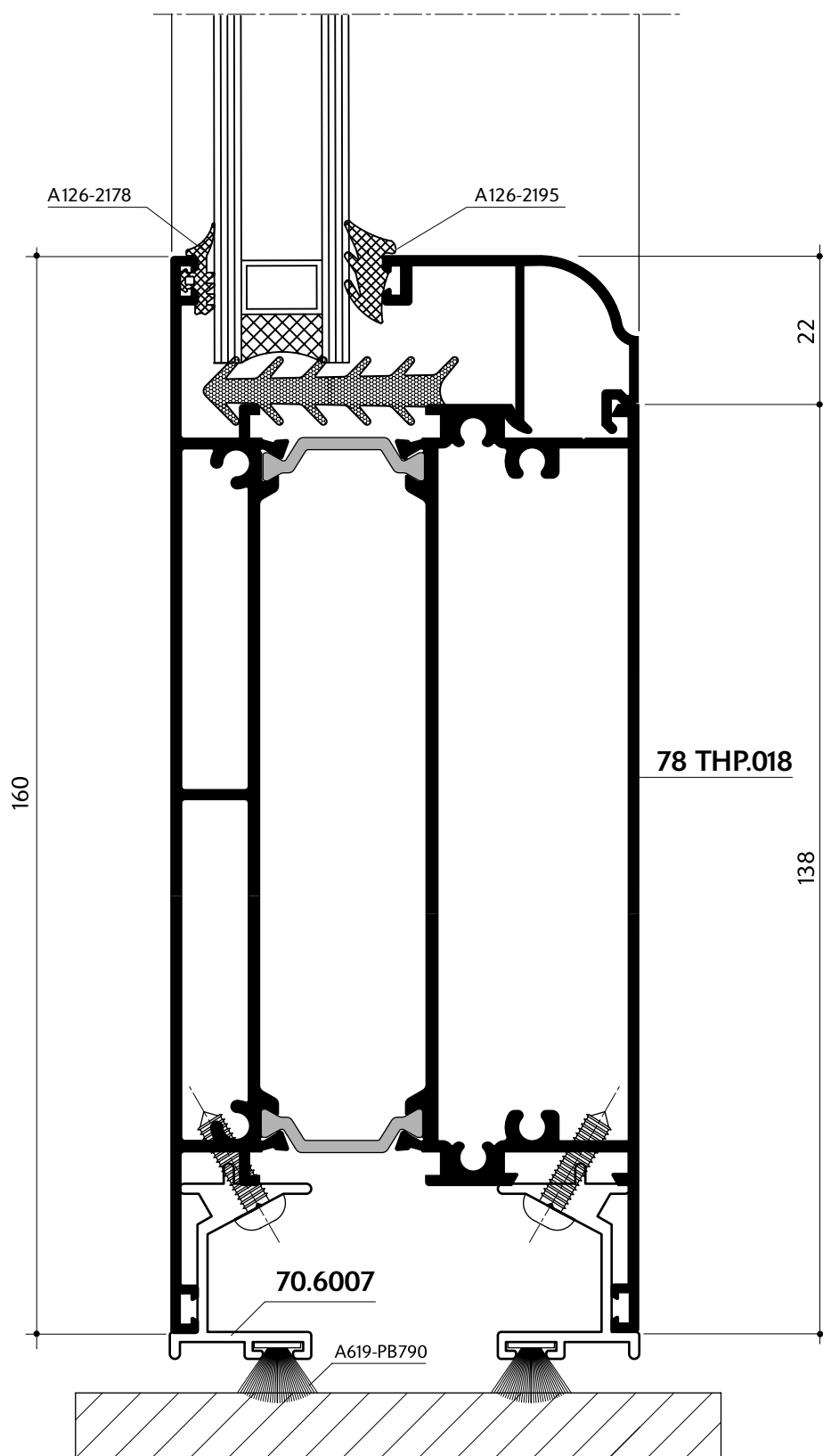


APERTURA ESTERNA

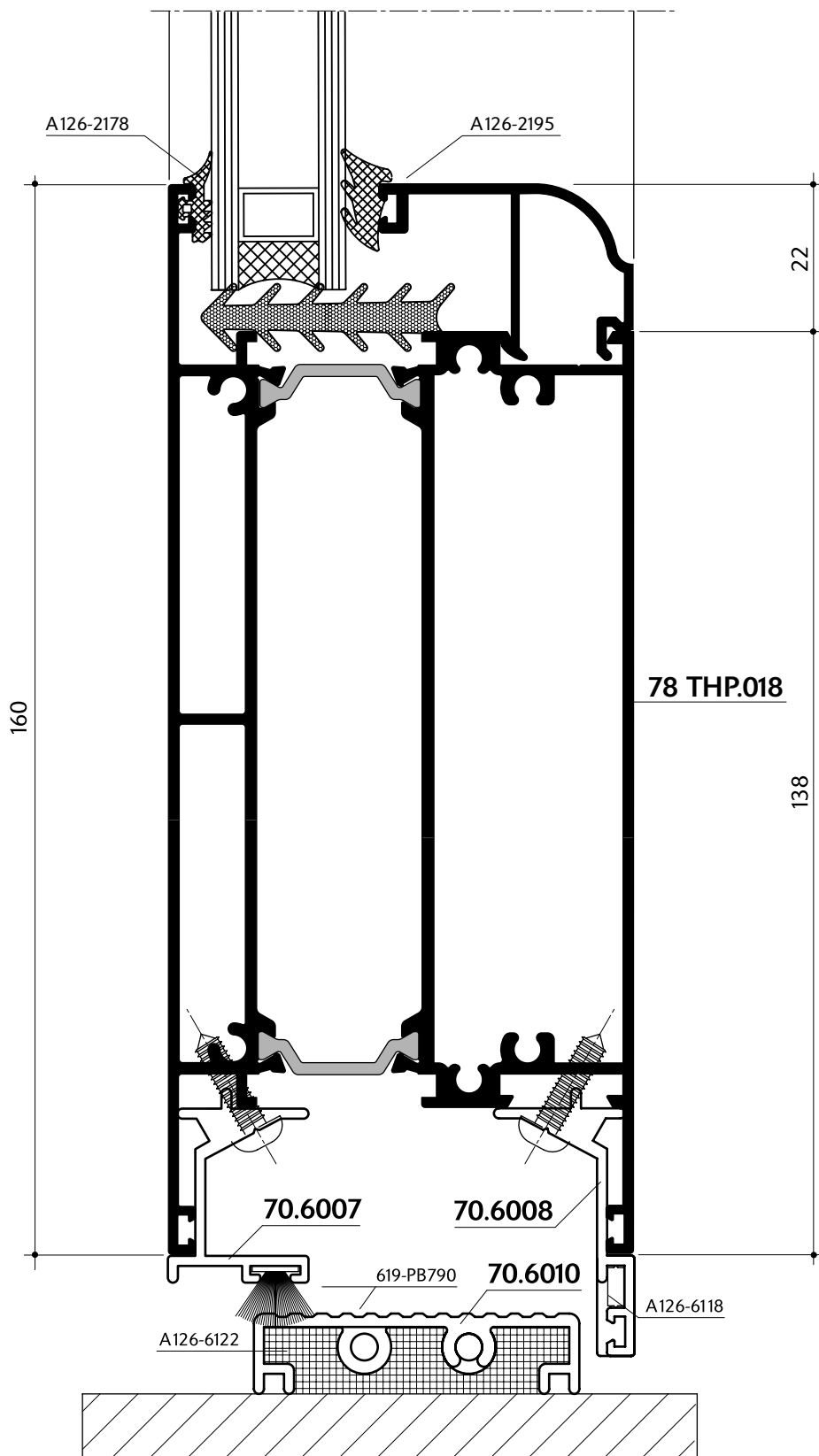
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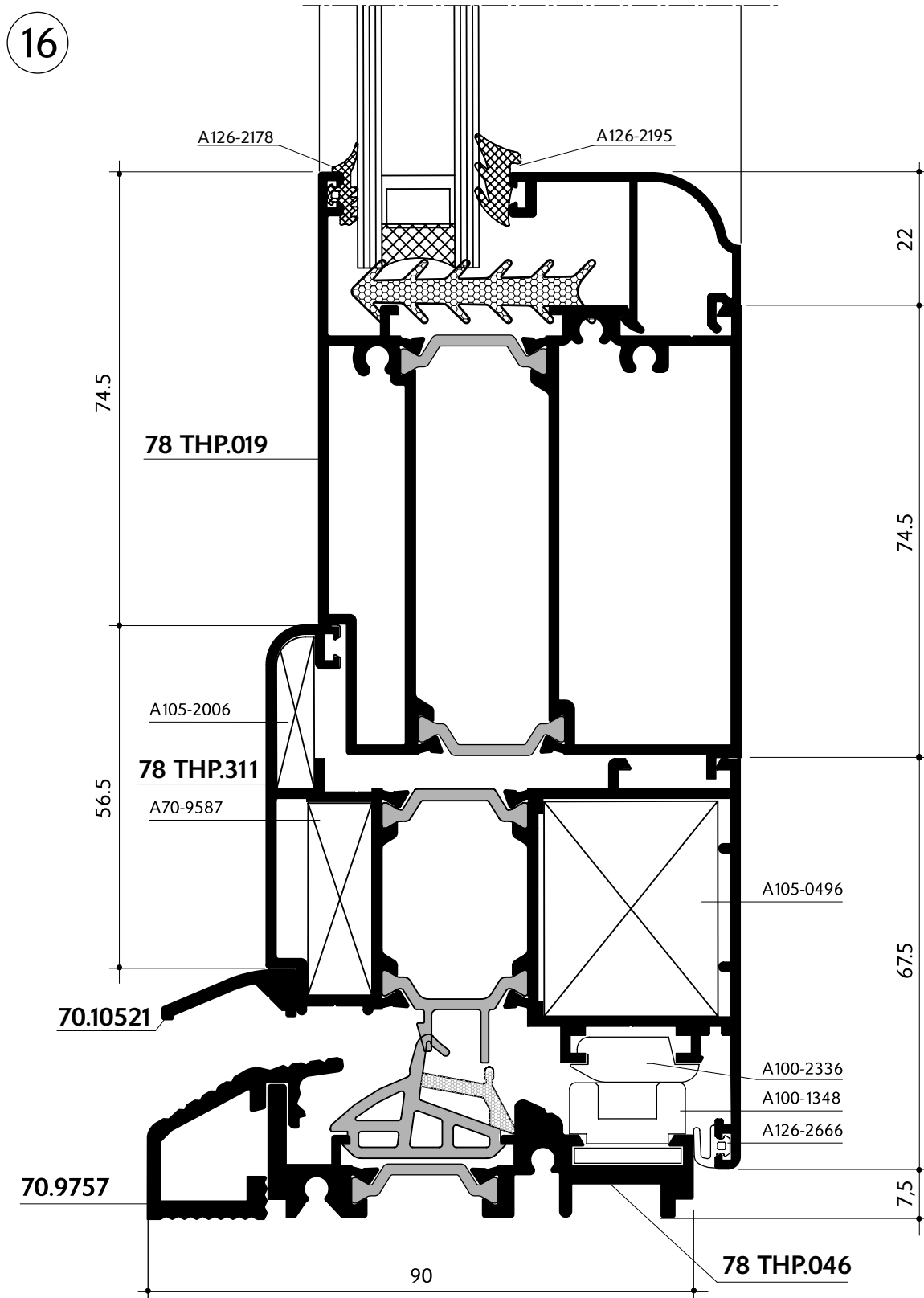


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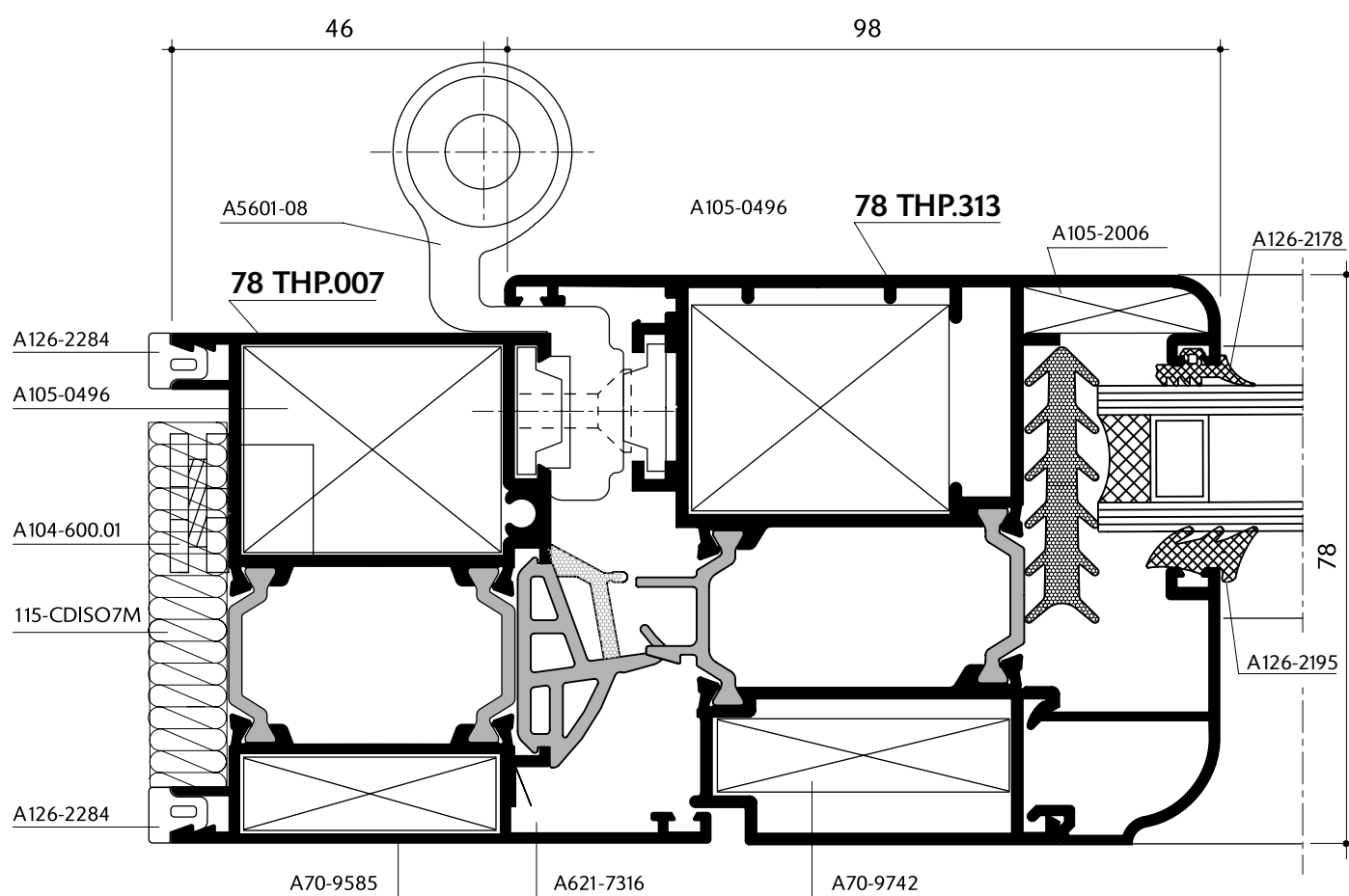
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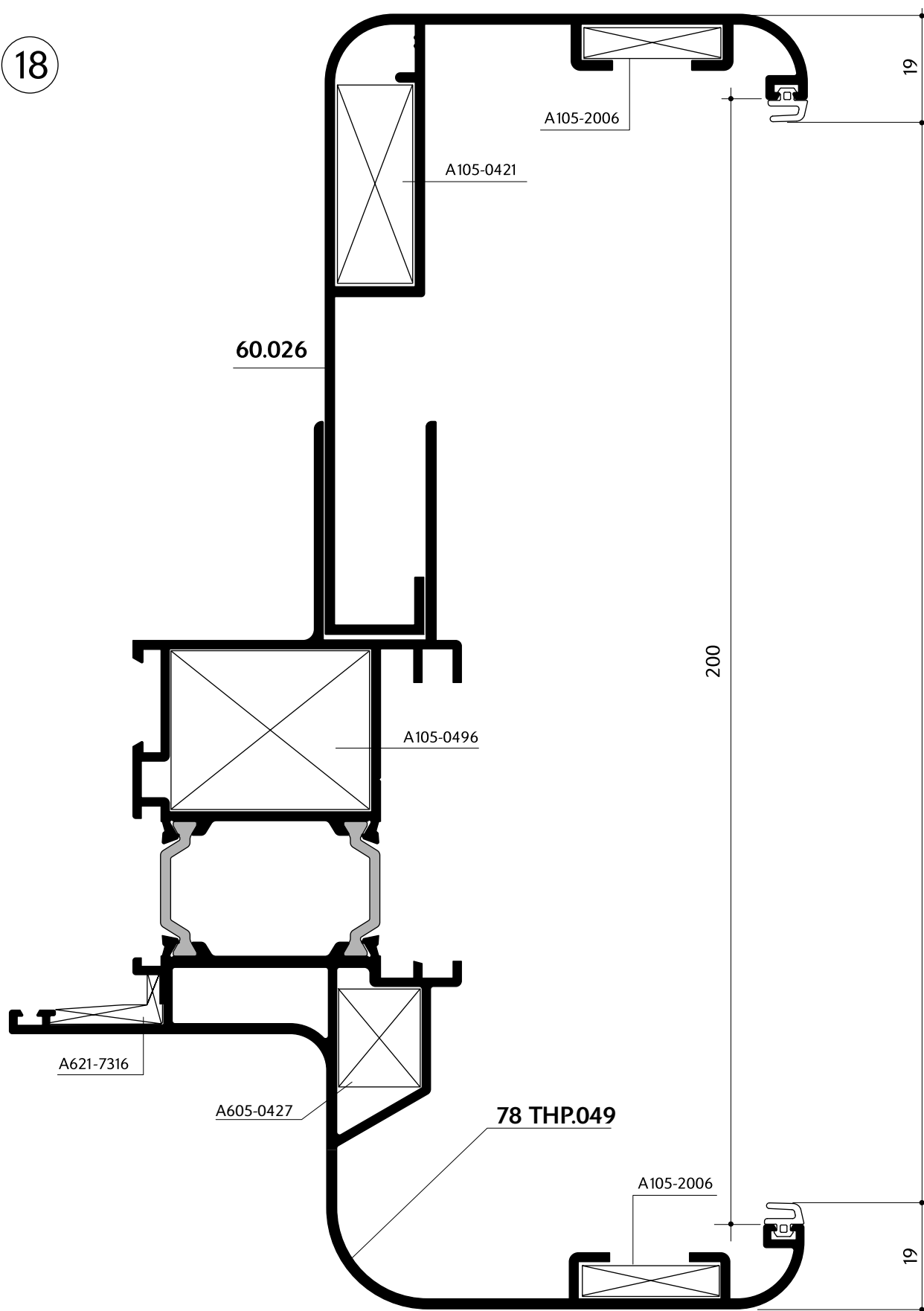
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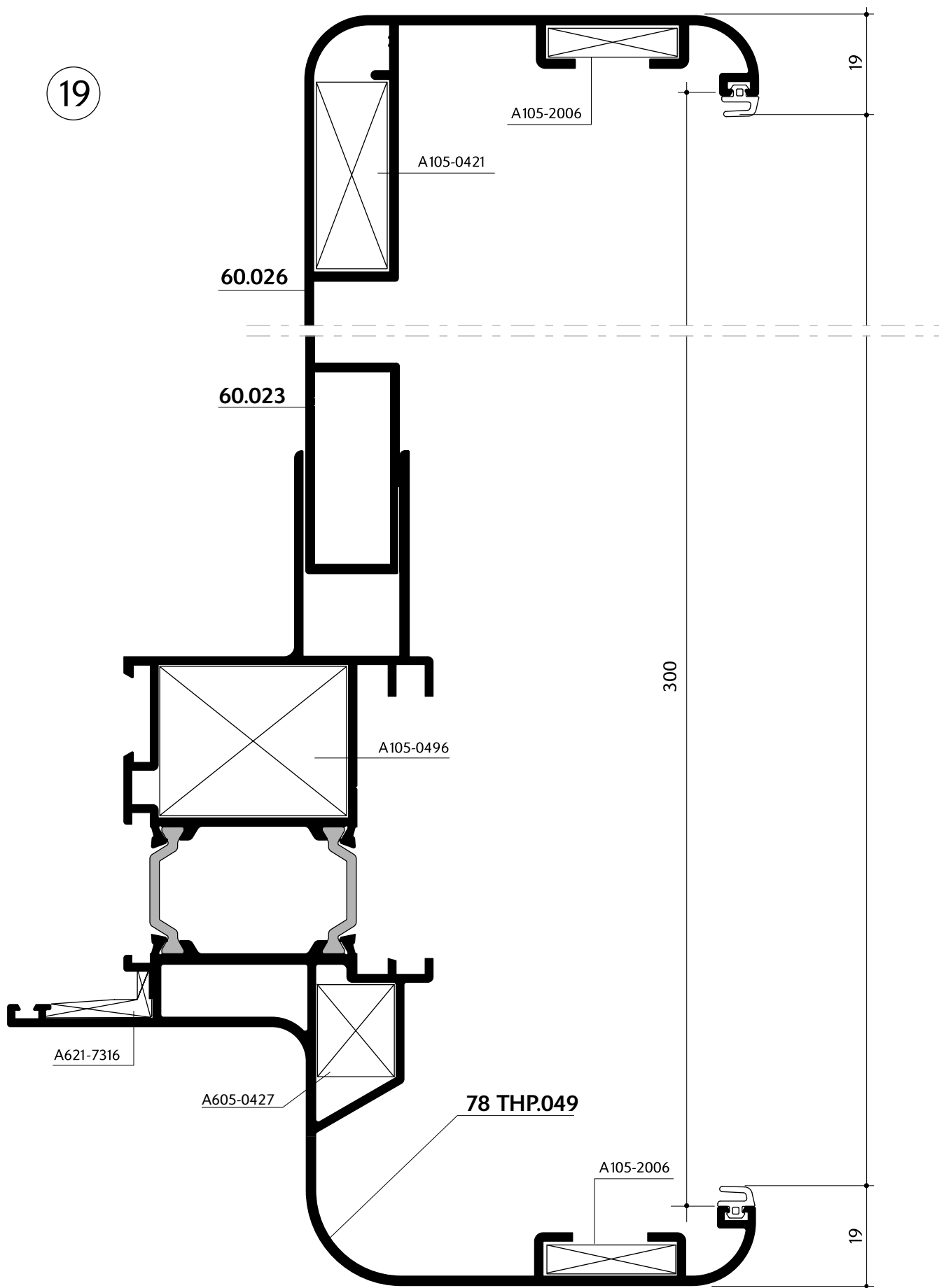
APERTURA ESTERNA



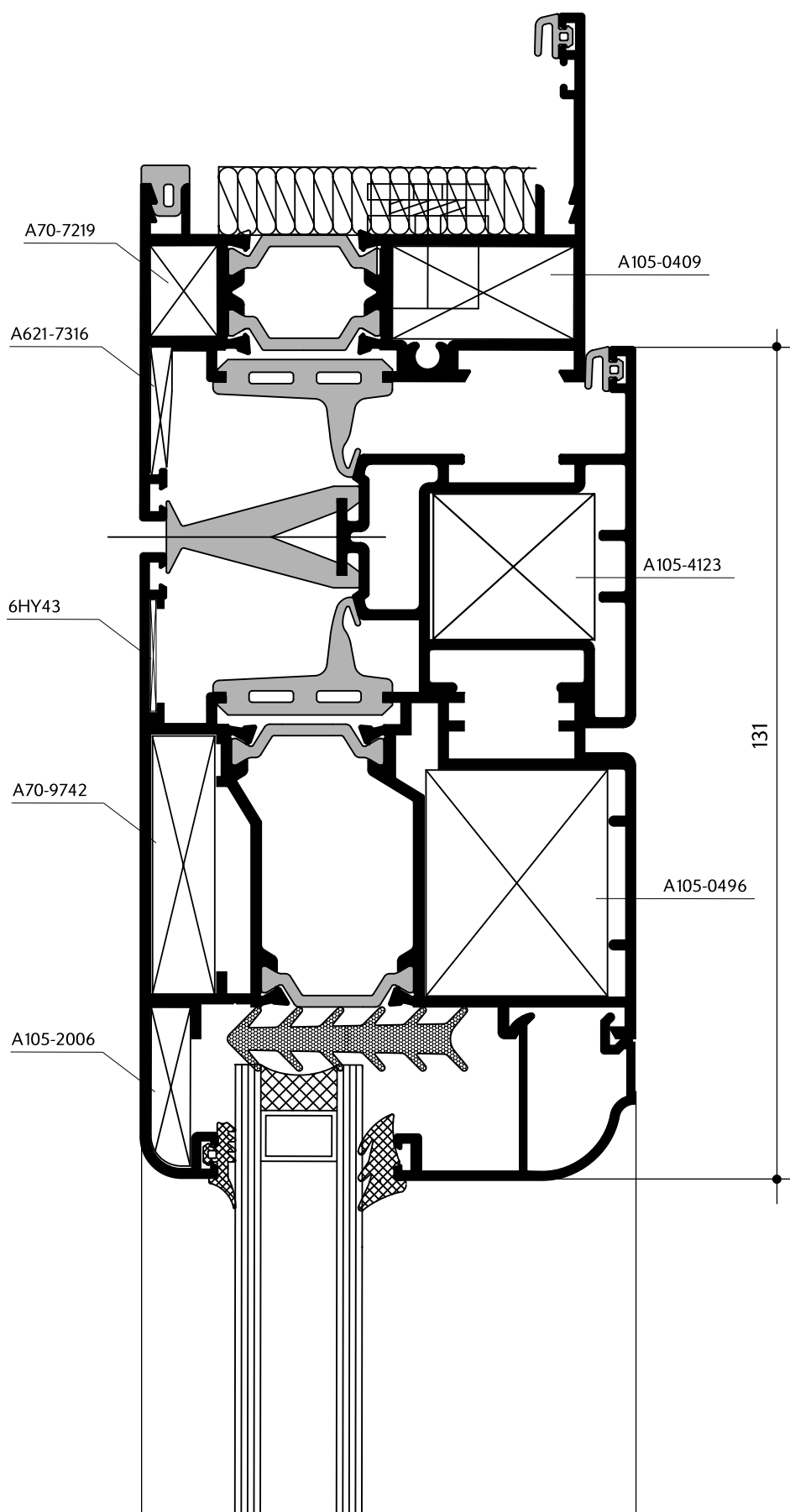


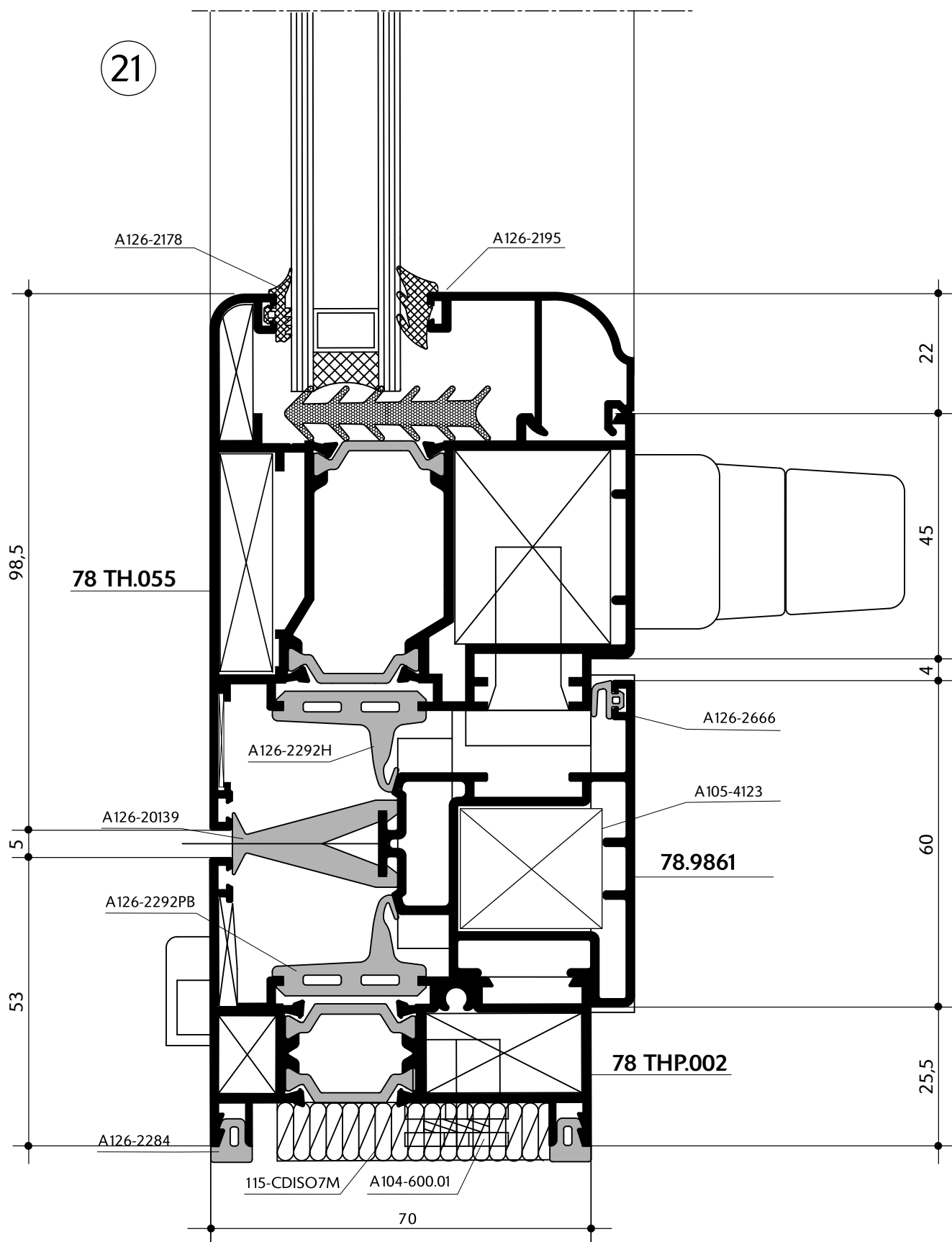
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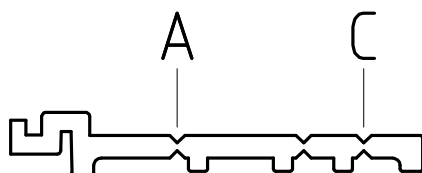


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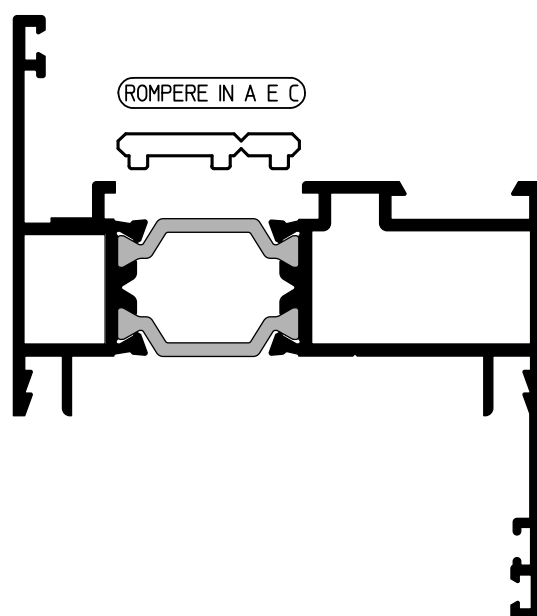




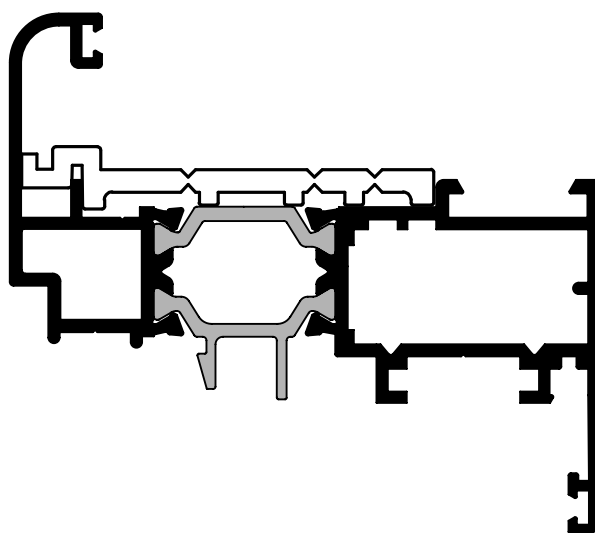
## ISTRUZIONI DI MONTAGGIO ANW-090

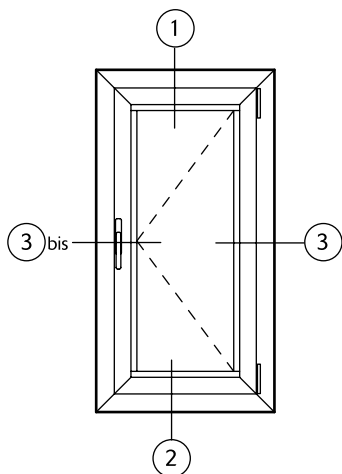


**SOLUZIONE VALIDA PER TUTTI I PROFILI  
TELAIO, FASCE, ZOCCOLI, TRAVERSI E PORTONCINI**



**SOLUZIONE VALIDA PER TUTTI I PROFILI ANTA,  
78THP.310, 78THP.311, 78THP.313 ecc.**

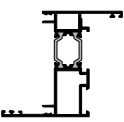
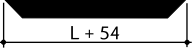
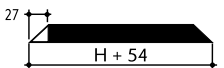
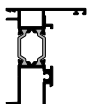
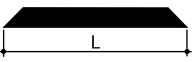
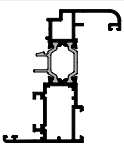
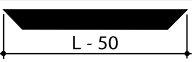
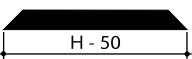

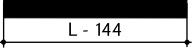
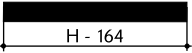

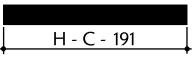
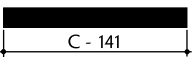


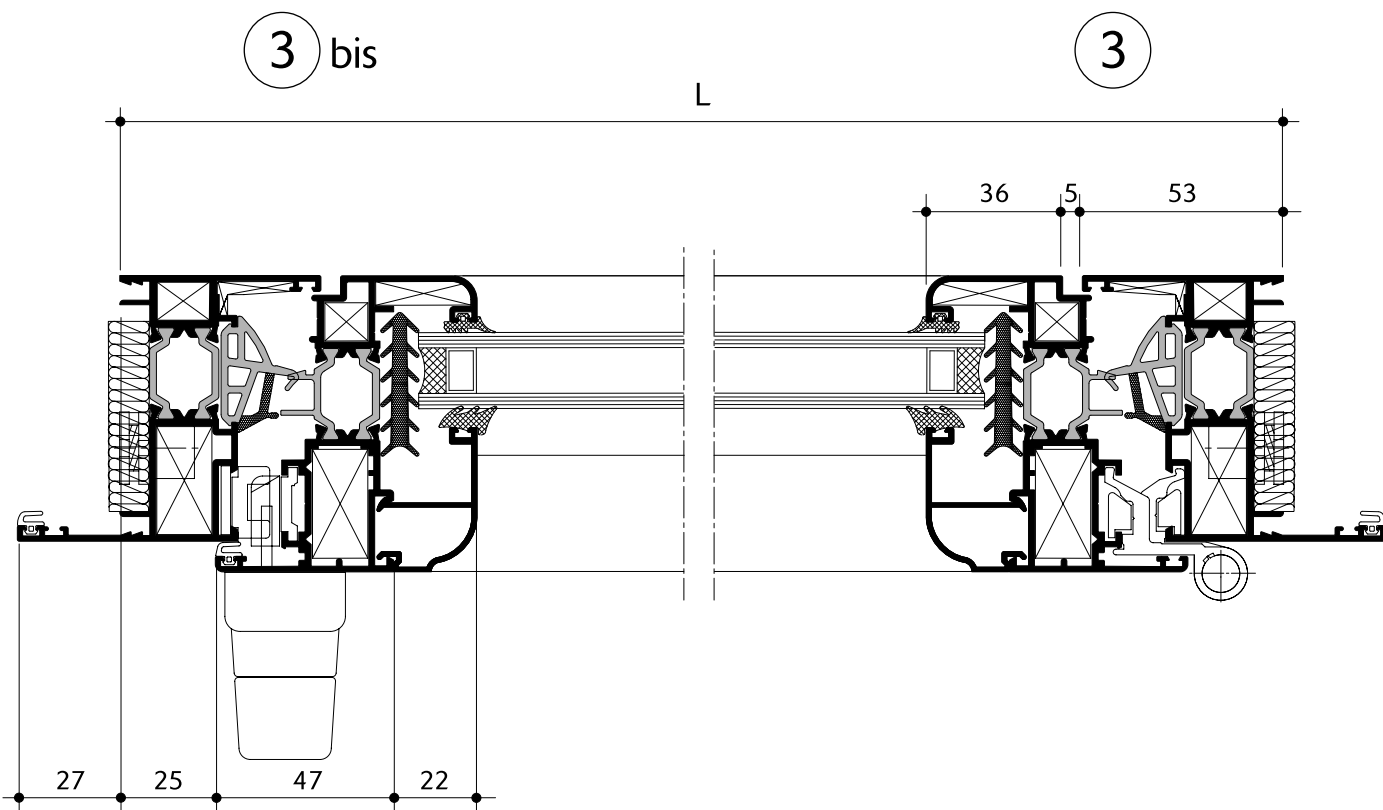


**Note:**

Spessore vetro considerato mm 20  
 Gioco perimetrale tra profilo e vetro mm 6 minimo  
 Vetri N° 1 pezzo per anta (L-156) (H-156)

### FINESTRA AD 1 ANTA

PROFILATI			
Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	<b>78 THP.001</b> Traverso telaio	
	2	<b>78 THP.001</b> Montanti telaio	
	1	<b>78 THP.002</b> Traversi telaio	
	2	<b>78 THP.310</b> Traversi anta	
	2	<b>78 THP.310</b> Montanti anta	
	1	<b>60.123</b> Fermavetri	
	2		
	1	<b>60.040</b> Asta cremonese per anta battente (per anta ribalta vedi kit)	
	1		



### ACCESSORI BASE PER 1 ANTA BATTENTE / ANTA RIBALTA / VASISTAS

ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansore/Rapid Block	7
A105-0409	Squadretta a scatto	8
A621-7316	Squadretta allineamento telaio	4
A70-7219	Squadretta tubolarità esterno telaio	4
A70-9586	Squadretta tubolarità esterno anta	4
A105-2006	Squadretta allineamento anta	4
A621-2136	Squadretta allineamento int. anta	4
A105-0706	Squadretta inox telaio	2
A100-2328	Cappetta drenaggio acqua	2
A126-2666	Guarnizione di battuta	3L+4H
A126-2178	Guarnizione esterna vetro	2L+2H
A126-2195	Guarnizione interna vetro	2L+2H
A126-08175	Guarnizione G.A.	2L+2H
A126-04400	Angoli vulcanizzati	4
A126-20212	Guarnizione sotto vetro	2L+2H

### ACCESSORI ANTA BATTENTE

ART.	DESCRIZIONE	N. PZ
A100-0120N-XX	Cerniera "Flash"	2
A100-1000-XX	Cremonese "Euro"	1
A100-2387	Blocchetto di collegamento	1
A100-1348	Incontro	3
A100-2336	Sostegno anta	1
A100-2188	Terminale aste	2

### ACCESSORI ANTA RIBALTA

ART.	DESCRIZIONE	N. PZ
A100-4751N	Kit base anta/ribalta	1
A100-1090-XX	Cremonese "Euro" per A/R	1
A100-4761N	Braccio medio	1
A100-4770	Chiusura supplementare verticale	1
A100-4770	Chiusura supplementare orizzontale	1

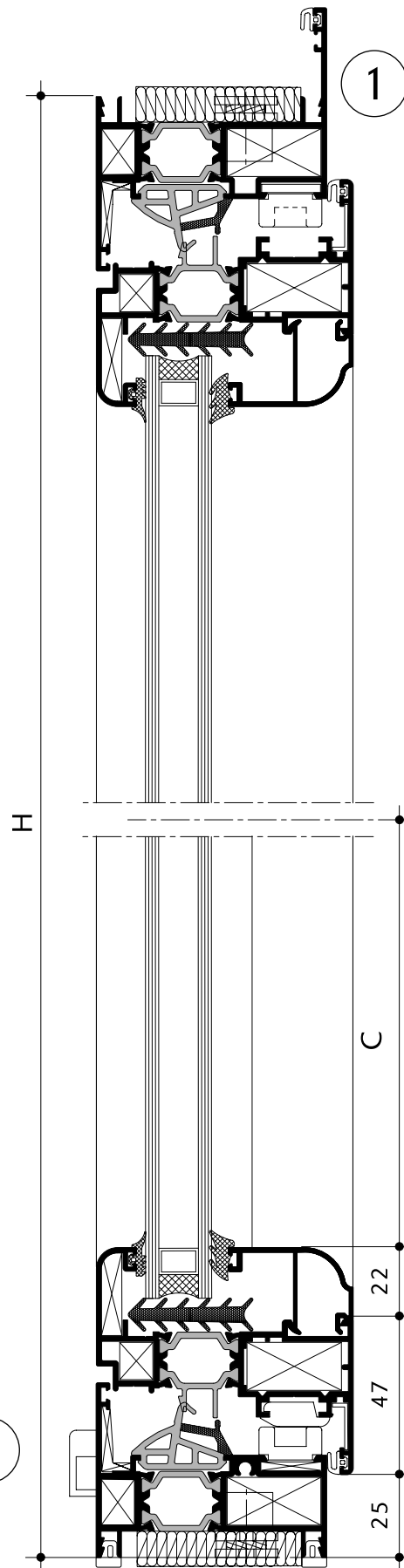
### ACCESSORI PER VASISTAS

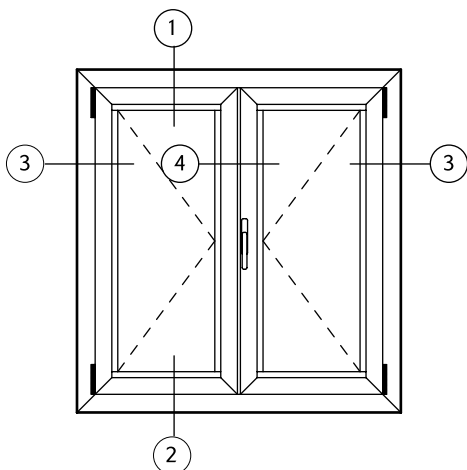
ART.	DESCRIZIONE	N. PZ
A100-0120N-XX	Cerniera "Flash"	2
A100-2014	Braccio "Domus"	1
A100-1701	Cricchetto "Grisbi"	1

ANTA BATTENTE

ANTA RIBALTA

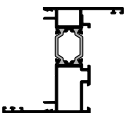
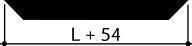
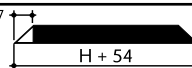
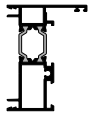

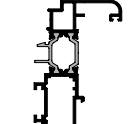
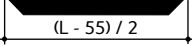
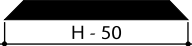
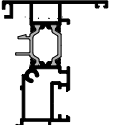
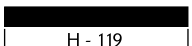

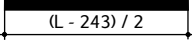
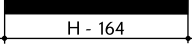

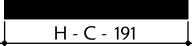
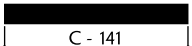
VASISTAS

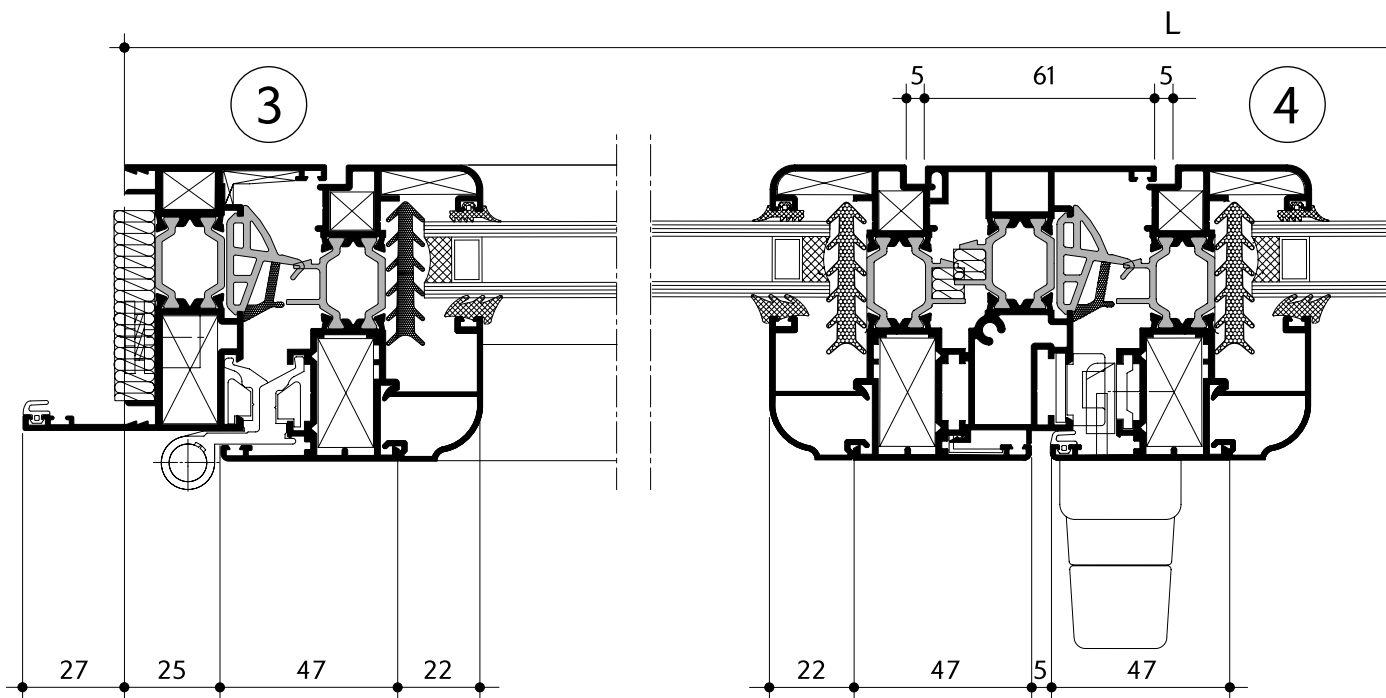




Note:  
 Spessore vetro considerato mm 20  
 Gioco perimetrale tra profilo e vetro mm 6 minimo  
 Vetri N° 2 pezzi [(L-267)/2] (H-156)

FINESTRA A 2 ANTE

PROFILATI			
Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	<b>78 THP.001</b> Traverso telaio	
	2	<b>78 THP.001</b> Montanti telaio	
	1	<b>78 THP.002</b> Traversi telaio	
	4	<b>78 THP.310</b> Traversi anta	
	4	<b>78 THP.310</b> Montanti anta	
	1	<b>78 THP.314</b> Riporto centrale	
	4	<b>60.123</b> Fermavetri	
	4		
	1	<b>60.040</b> Asta cremonese per anta battente (per anta ribalta vedi kit)	
	1		





### ACCESSORI BASE 2 ANTE A BATTENTE / 2 ANTE CON ANTA - RIBALTA

ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansore/Rapid Block	8
A105-0409	Squadretta a scatto	12
A621-7316	Squadretta allineamento telaio	4
A70-7219	Squadretta tubolarità esterno telaio	4
A70-9586	Squadretta tubolarità esterno anta	8
A105-2006	Squadretta allineamento anta	8
A621-2136	Squadretta allineamento int. anta	8
A105-0706	Squadretta inox telaio	2
A126-06401	Tappo riporto centrale	1
A100-2328	Cappetta drenaggio acqua	3
A126-2666	Guarnizione di battuta	3L+5H
A126-2178	Guarnizione esterna vetro	2L+4H
A126-2195	Guarnizione interna vetro	2L+4H
A126-08175	Guarnizione G.A.	2L+3H
A126-04400	Angoli vulcanizzati	4
A126-20212	Guarnizione sotto vetro	2L+4H

### ACCESSORI 2 ANTE A BATTENTE

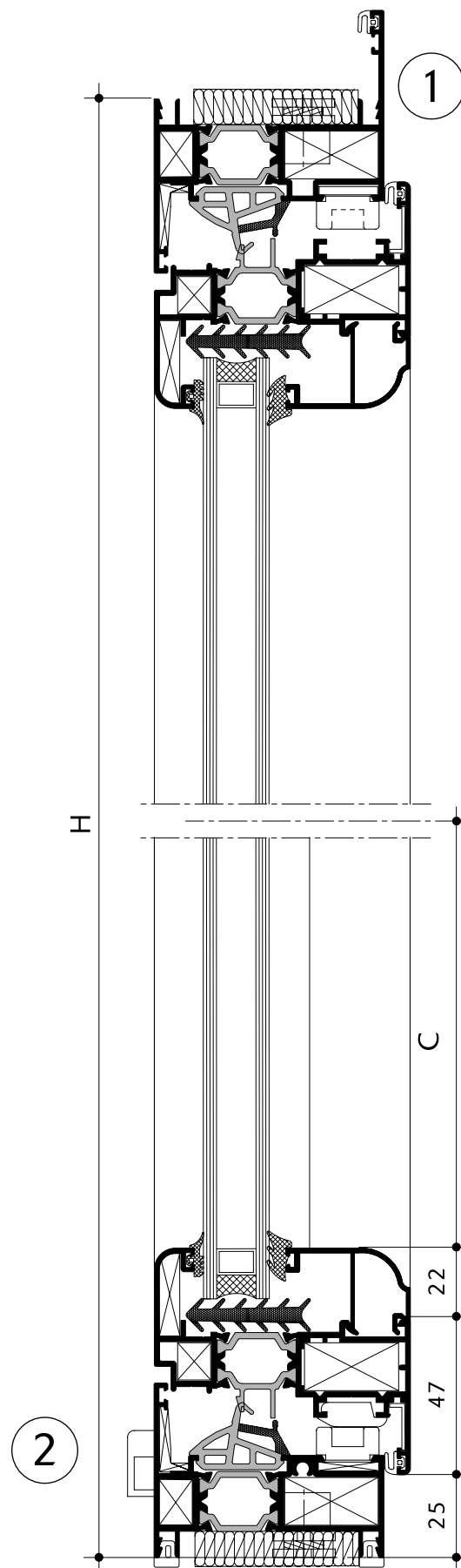
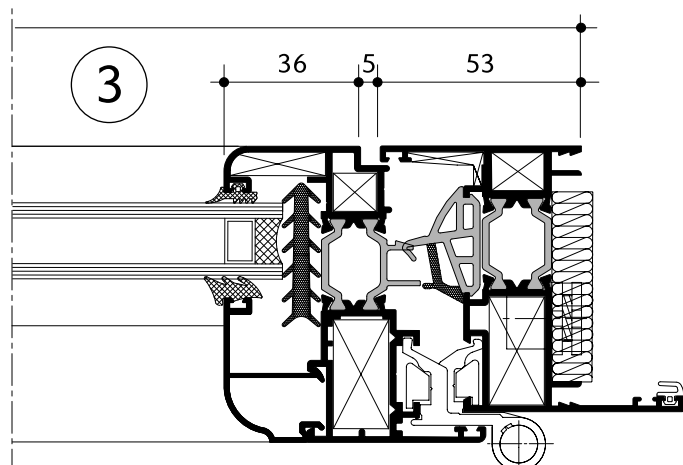
ART.	DESCRIZIONE	N. PZ
A100-0120N-XX	Cerniera "Flash"	4
A100-1000-XX	Cremonese "Euro"	1
A100-2387	Blocchetto di collegamento	1
A100-1348	Incontro	1
A100-2336	Sostegno anta	2
A100-1349	Incontro doppio	2
A100-2188	Terminale aste	2
A100-2168N	Catenaccio registrabile	2

### ACCESSORI FINESTRA 2 ANTE CON ANTA A RIBALTA

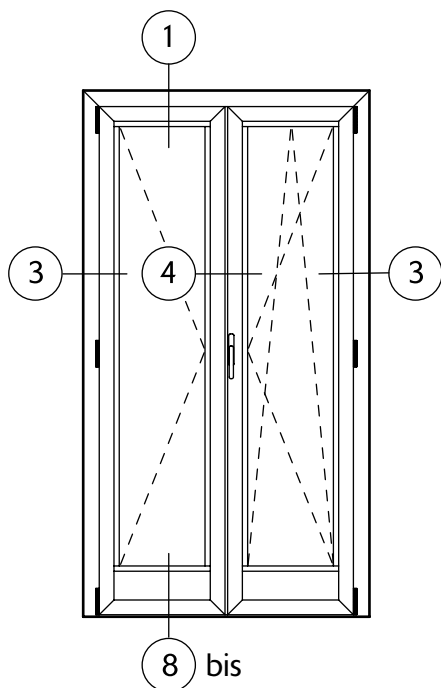
ART.	DESCRIZIONE	N. PZ
A100-4751N	Kit base anta/ribalta	1
A100-1090-XX	Cremonese "Euro" per A/R	1
A100-4761N	Braccio medio	1
A100-2168N	Catenaccio chiusura anta abbinata	2
A100-2336	Sostegno anta	1
A100-1349	Incontro doppio	1
A100-1348	Incontro aste e terza chiusura	1
A100-0120N-XX	Cerniera Flash	2

ANTA BATTENTE

ANTA RIBALTA



### PORTA BALCONE A 2 ANTE CON ANTA A RIBALTA



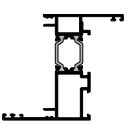
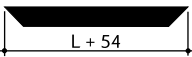
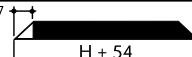
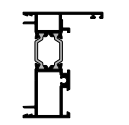

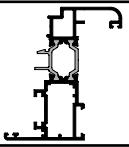
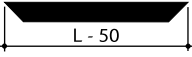
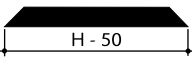
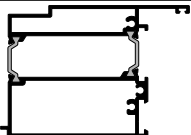
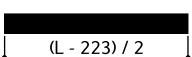
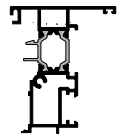
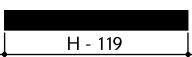

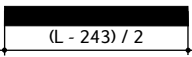
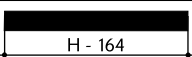

**Note:**

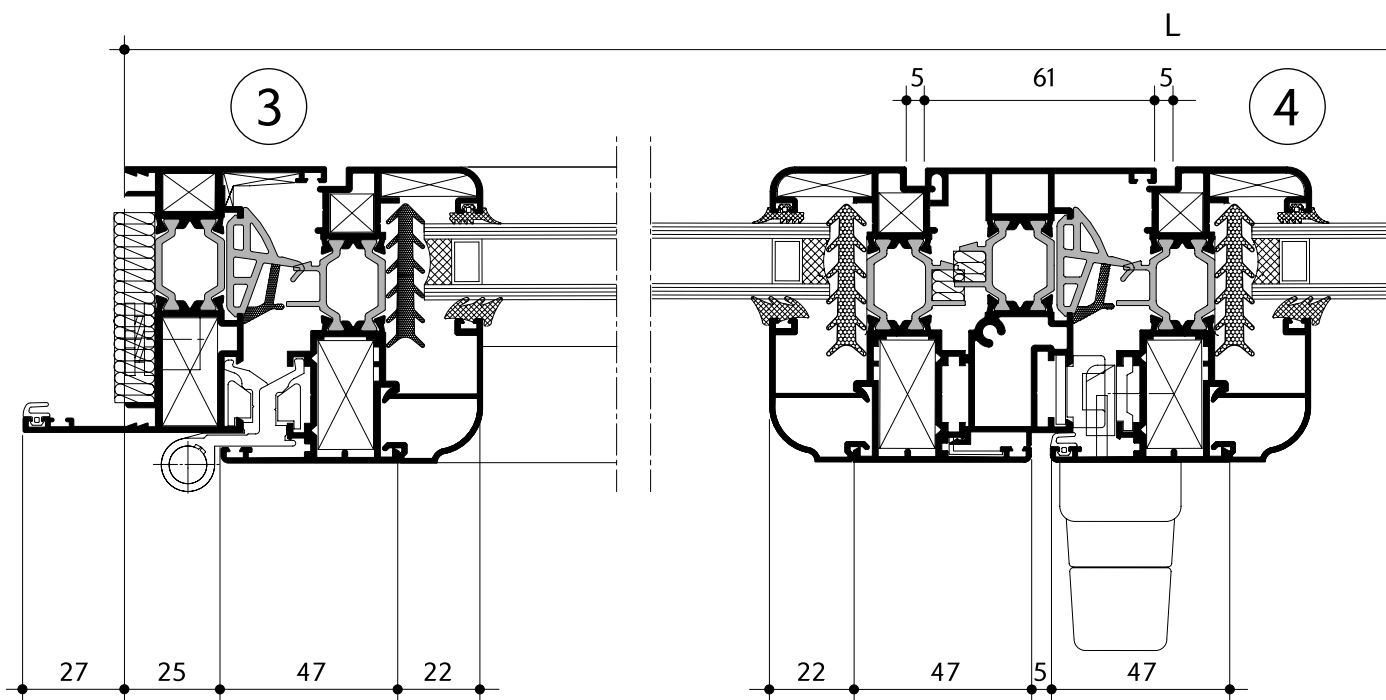
Spessore vetro considerato mm 23

Gioco perimetrale tra profilo e vetro mm 6 minimo

Vetri N° 2 pezzi [(L-267)/2] (H-232,5)

#### PROFILATI

Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	<b>78 THP.001</b> Traverso telaio	
	2	<b>78 THP.001</b> Montanti telaio	
	1	<b>78 THP.002</b> Traversi telaio	
	4	<b>78 THP.310</b> Traversi anta	
	4	<b>78 THP.310</b> Montanti anta	
	2	<b>78 THP.019</b> Zoccolo riportato	
	1	<b>78 THP.314</b> Riporto centrale	
	4	<b>60.123</b> Fermavetri	
	4		
		<b>60.040</b> Asta cremonese	Vedi istruzioni nel kit

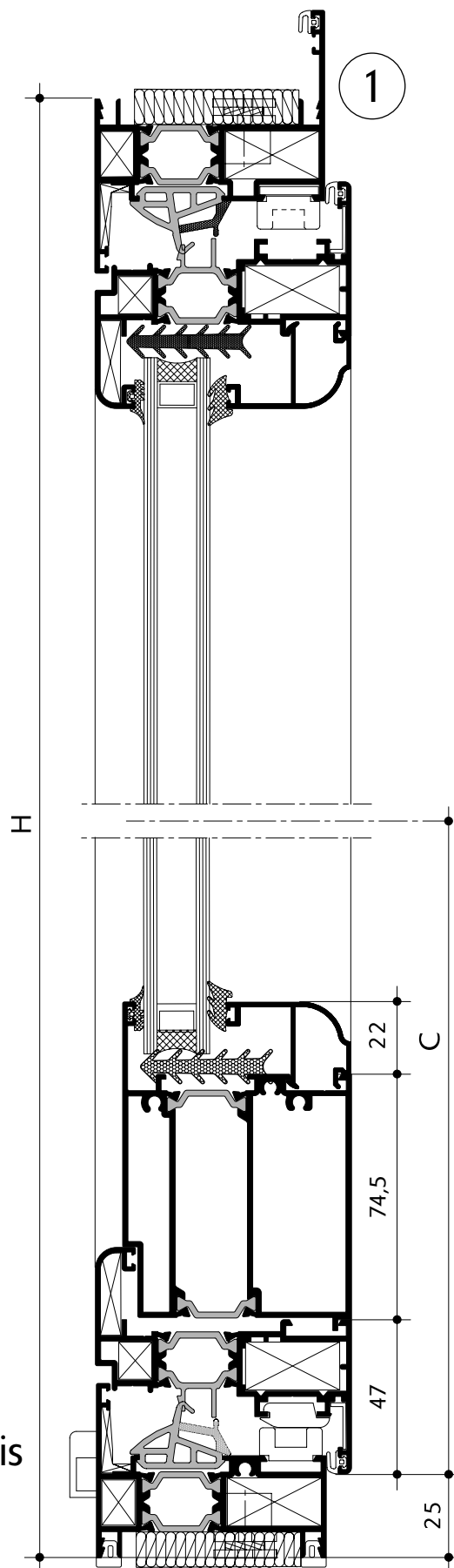
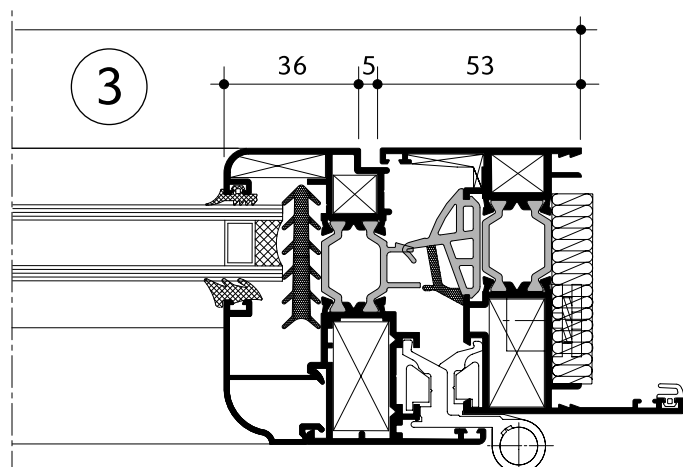


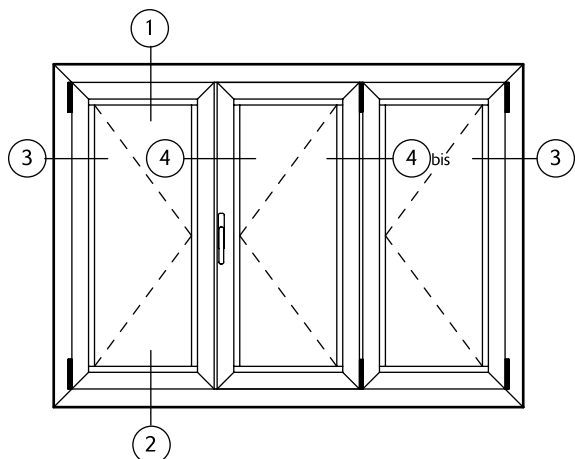
### PORTA BALCONE A 2 ANTE CON ANTA A RIBALTA

ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansore/Rapid Block	10
A105-0409	Squadretta a scatto	12
A621-7316	Squadretta allineamento telaio	4
A70-7219	Squadretta tubolarità esterno telaio	4
A70-9586	Squadretta tubolarità esterno anta	8
A105-2006	Squadretta allineamento anta	8
A621-2136	Squadretta allineamento int. anta	8
A105-0706	Squadretta inox telaio	2
A126-06401	Tappo riporto centrale	1
A100-0120N-XX	Cerniera Flash	3
A100-4751N	Kit base anta/ribalta	1
A100-1090-XX	Cremonese "Euro" per A/R	1
A100-4761N	Braccio medio	1
A100-4770	Chiusura supplementare verticale	1
A100-2168N	Catenaccio chiusura anta abbinata	2
A100-2336	Sostegno anta	1
A100-1349	Incontro doppio	1
A100-1348	Incontro aste e terza chiusura	1
A100-2328	Cappetta drenaggio acqua	3
A100-4030	Nottolino di chiusura	6
A100-1343	Incontro per nottolino	6

### GUARNIZIONI

ART.	DESCRIZIONE	N. PZ
A126-2666	Guarnizione di battuta	3L+5H
A126-2178	Guarnizione esterna vetro	2L+4H
A126-2195	Guarnizione interna vetro	2L+4H
A126-08175	Guarnizione G.A.	2L+3H
A126-04400	Angoli vulcanizzati	4
A126-20212	Guarnizione sotto vetro	2L+4H





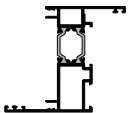
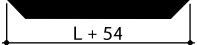
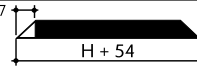
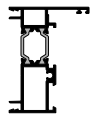

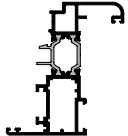
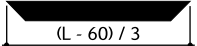
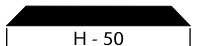

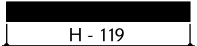

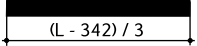
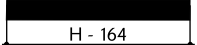

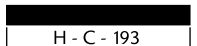
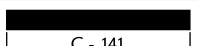
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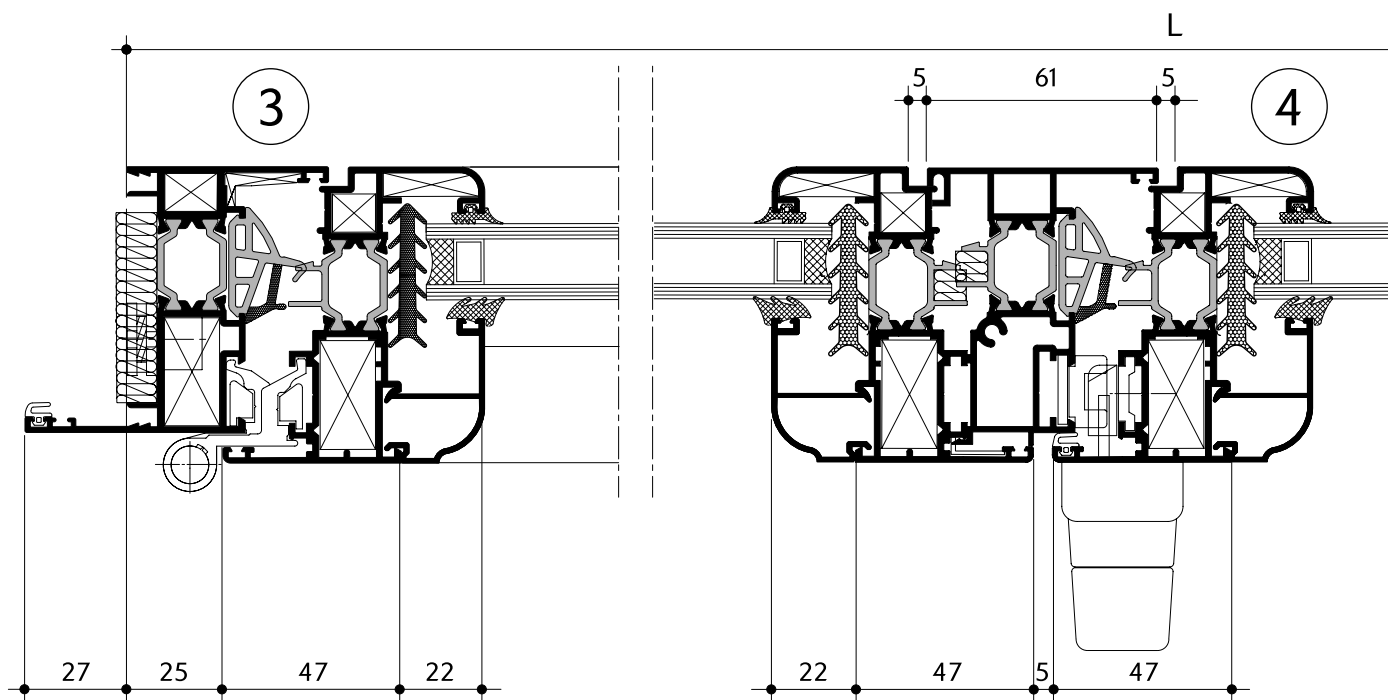
Spessore vetro considerato mm 20

Gioco perimetrale tra profilo e vetro mm 6 minimo

Vetri N° 3 pezzi [(L-380)/3] (H-156)

### FINESTRA A 3 ANTE

PROFILATI			
Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	<b>78 THP.001</b> Traverso telaio	
	2	<b>78 THP.001</b> Montanti telaio	
	1	<b>78 THP.002</b> Traversi telaio	
	6	<b>78 THP.310</b> Traversi anta	
	6	<b>78 THP.310</b> Montanti anta	
	2	<b>78 THP.314</b> Riporto centrale	
	6	<b>60.123</b> Fermavetri	
	6		
	1	<b>60.040</b> Asta cremonese per anta battente (per anta ribalta vedi kit)	
	1		

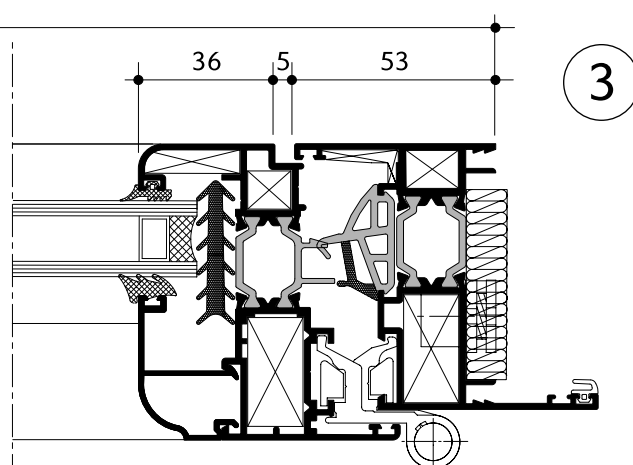
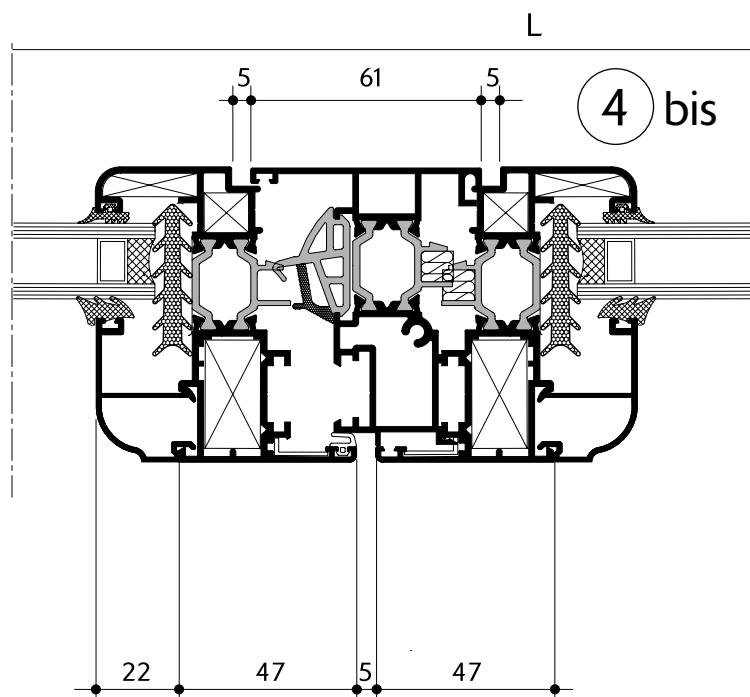
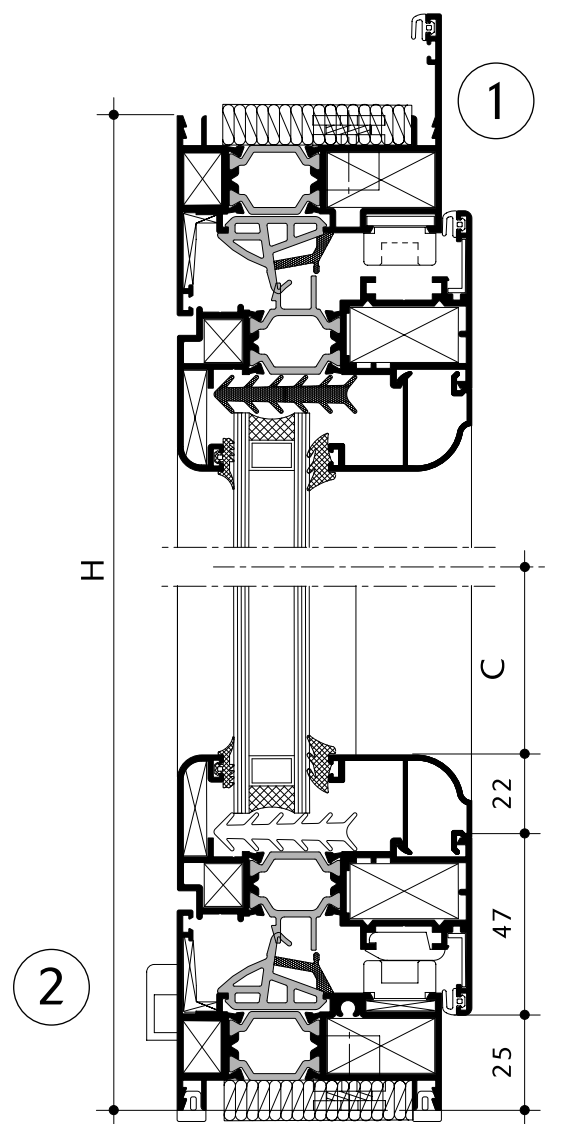


### FINESTRA A 3 ANTE

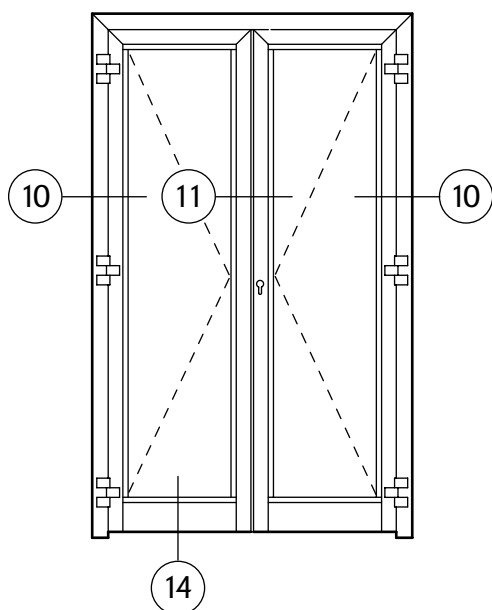
ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansore/Rapid Block	10
A105-0409	Squadretta a scatto	16
A621-7316	Squadretta allineamento telaio	4
A70-7219	Squadretta tubolarità esterno telaio	4
A70-9586	Squadretta tubolarità esterno anta	12
A105-2006	Squadretta allineamento anta	12
A621-2136	Squadretta allineamento int. anta	12
A105-0706	Squadretta inox telaio	2
A126-06401	Tappo riporto centrale	2
A100-0120N-XX	Cerniera Flash	4
A100-0143V-XX	Cerniera Flash per terza anta	2
A100-1000-XX	Cremonese "Euro"	1
A100-2387	Blocchetto di collegamento	1
A100-1348	Incontro	1
A100-2336	Sostegno anta	3
A100-1349	Incontro doppio	4
A100-2188	Terminale aste	2
A100-2168N	Catenaccio registrabile	4
A100-2328	Cappetta copriasola drenaggio acqua	4

### GUARNIZIONI

ART.	DESCRIZIONE	N. PZ
A126-2666	Guarnizione di battuta	3L+6H
A126-2178	Guarnizione esterna vetro	2L+6H
A126-2195	Guarnizione interna vetro	2L+6H
A126-08175	Guarnizione G.A.	2L+4H
A126-04400	Angoli vulcanizzati	4
A126-20212	Guarnizione sotto vetro	2L+6H



### PORTA A 2 ANTE - APERTURA INTERNA


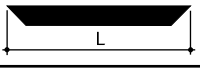
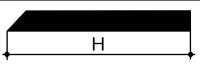



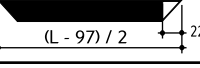
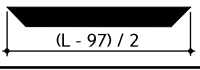
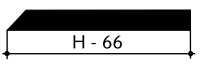
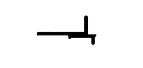
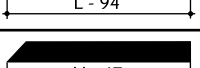
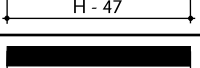

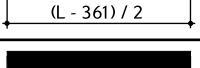
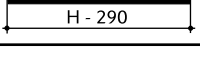



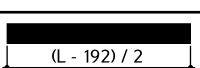


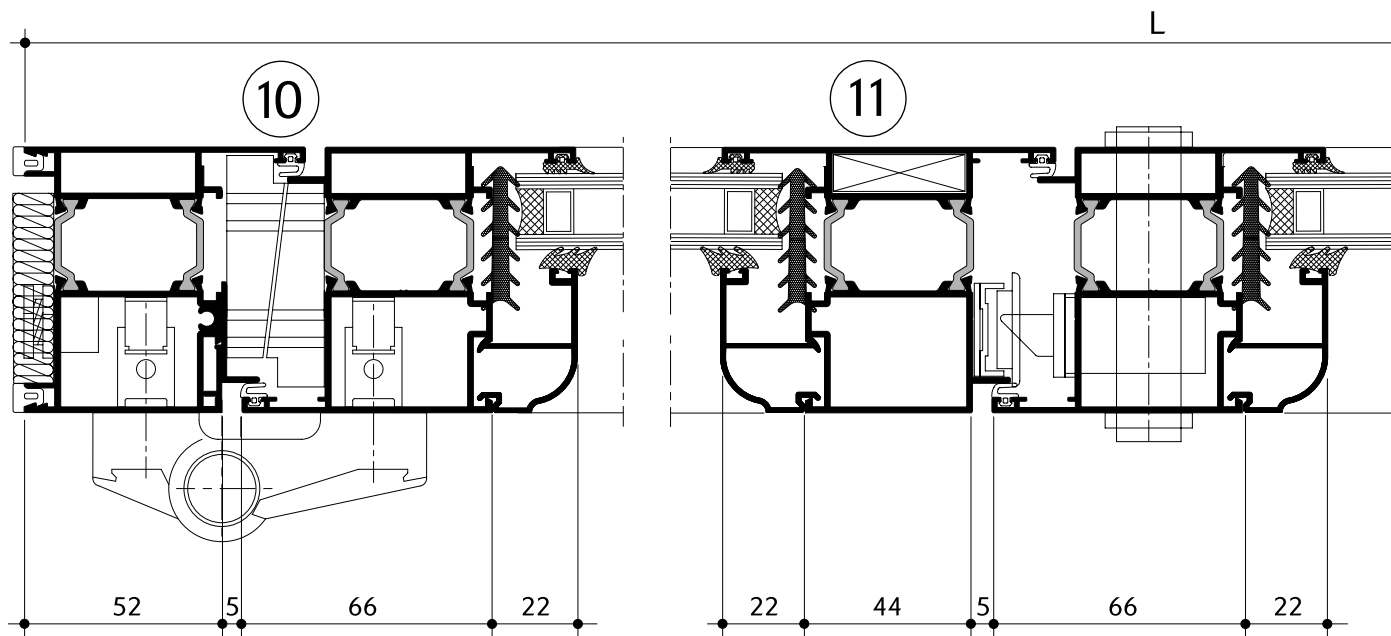
**Note:**

Spessore vetro considerato mm 23

Gioco perimetrale tra profilo e vetro mm 6 minimo

Vetri N° 2 pezzi [(L-385)/2] (H-282)

PROFILATI			
Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	<b>78 THP.007</b> Traverso telaio	
	2	<b>78 THP.007</b> Montanti telaio	
	1	<b>78 THP.031</b> Montante anta portoncino	
	1	<b>78 THP.032</b> Traverso anta portoncino	
	1	<b>78 THP.032</b> Traverso anta portoncino	
	3	<b>78 THP.032</b> Montante anta portoncino	
	1	<b>70.034</b> Traverso battuta riportata	
	2	<b>70.034</b> Montante battuta riportata	
	2	<b>60.123</b> Fermavetri	
	4		
	2	<b>78 THP.018</b> Zoccolo	
	2	<b>70.6007</b> Tenuta per spazzolino	

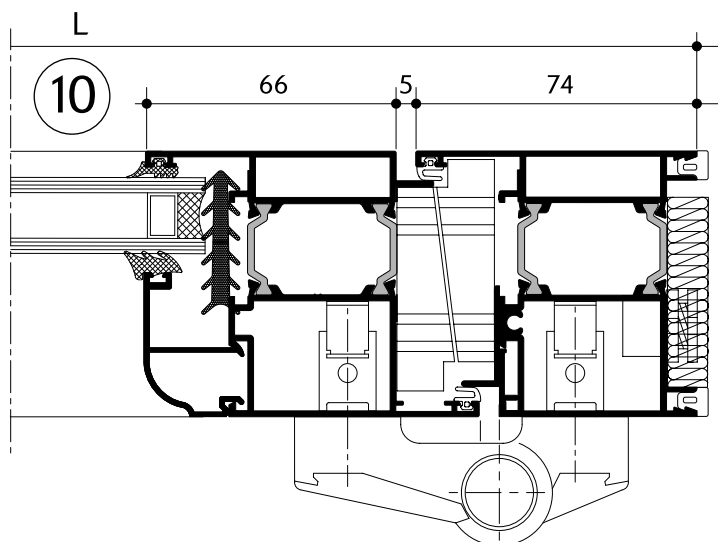
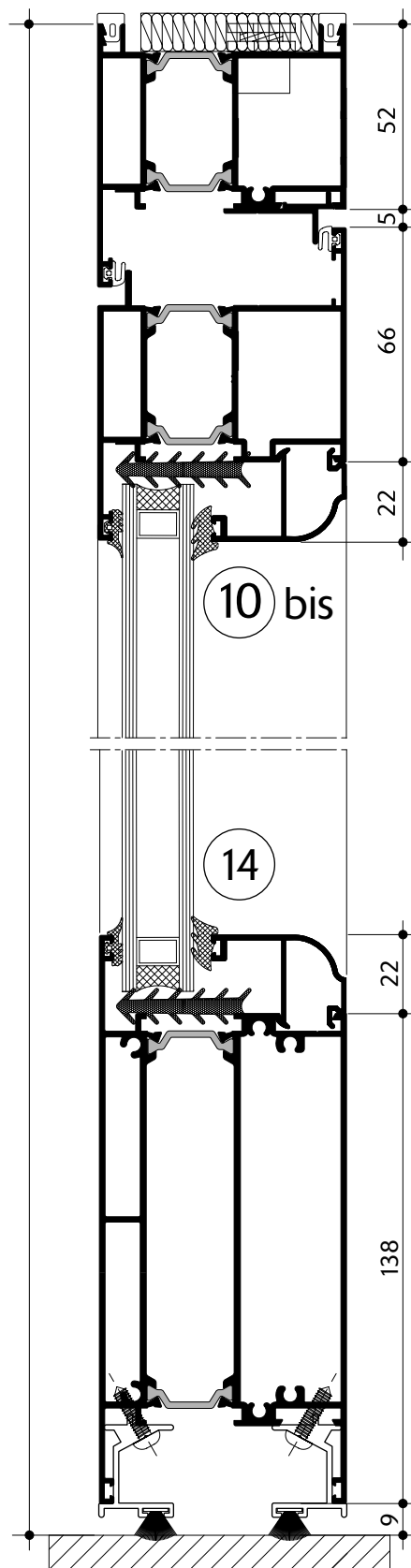


### PORTA A 2 ANTE - APERTURA INTERNA

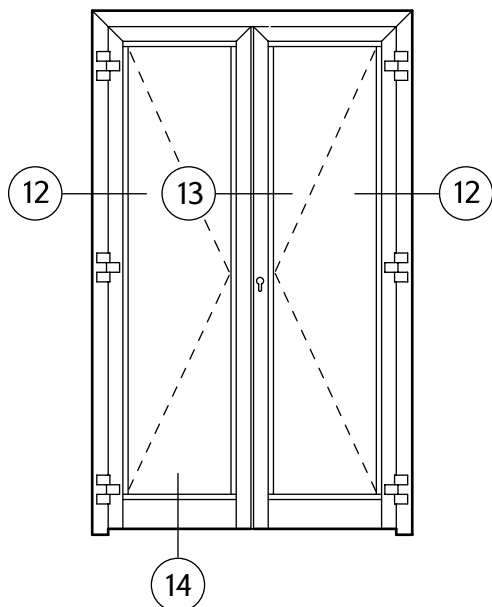
ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansione/Rapid Block	8
A105-0496	Squadretta per profili maggiorati	6
A621-7316	Squadretta allineamento telaio	6
A70-9585	Squadretta tubo esterno anta	6
A126-6117	Tappi di battuta su inver. centr. porte	1
A101-6045	Cerniera Loira	6
A100-1325	Incontro superiore catenaccio Totem	1
A100-2170	Catenaccio Totem per porte	2
A100-2159	Boccola per soglia	1
A121-6120	Tappi di tenuta aria	2

### GUARNIZIONI

ART.	DESCRIZIONE	N. PZ
A126-2666	Guarnizione di battuta	2L+6H
A126-2178	Guarnizione esterna vetro	2L+4H
A126-2195	Guarnizione interna vetro	2L+4H
619-PB790	Sazzolino	2 L
A126-20212	Guarnizione sotto vetro	2L+4H



### PORTA A 2 ANTE - APERTURA ESTERNA

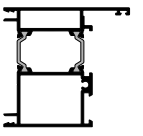
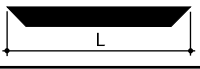
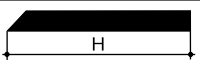
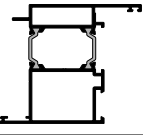
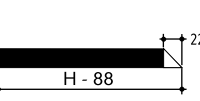
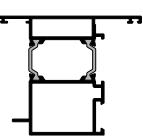
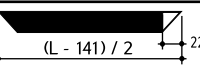
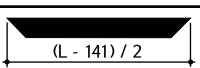
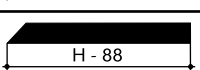
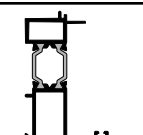
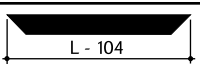
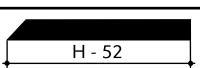

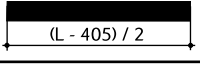
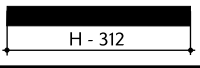
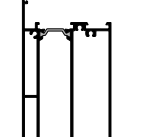
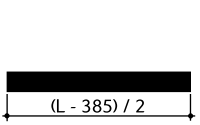
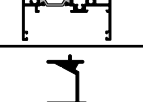
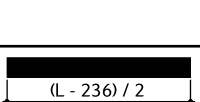


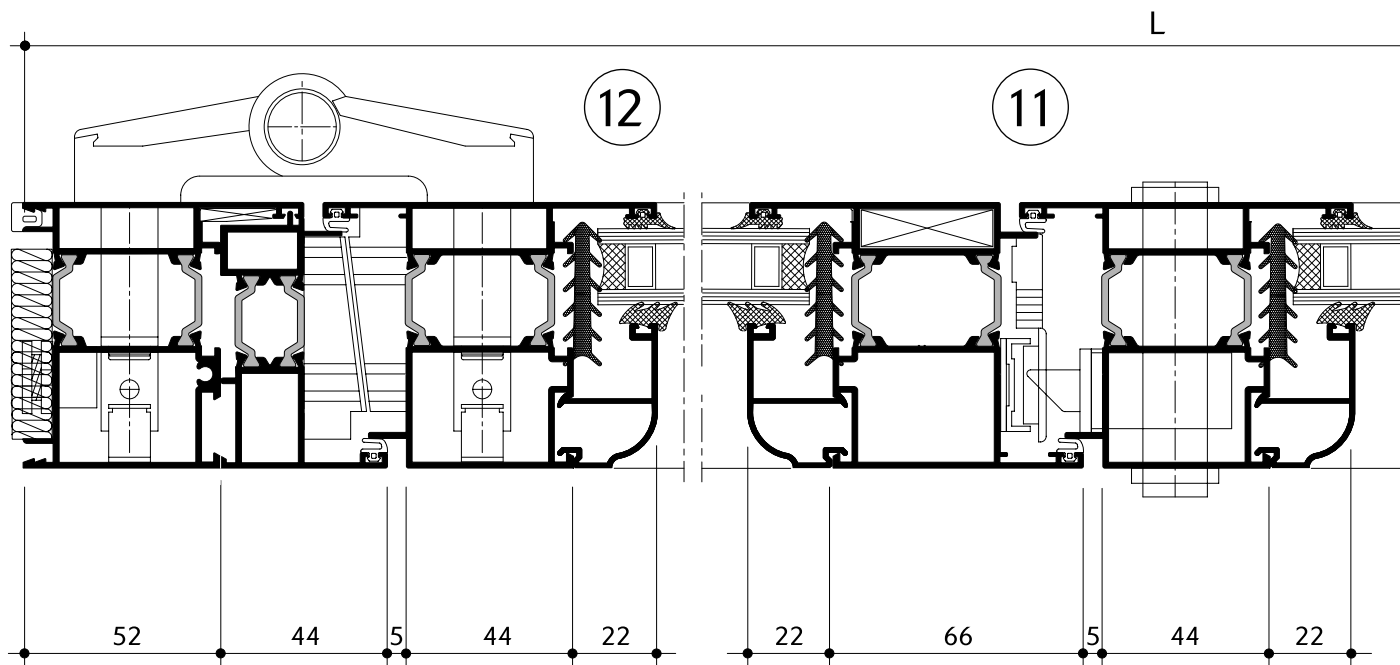
**Note:**

Spessore vetro considerato mm 23

Gioco perimetrale tra profilo e vetro mm 6 minimo

Vetri N° 2 pezzi [(L-429)/2] (H-304)

PROFILATI			
Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	<b>78 THP.007</b> Traverso telaio	
	2	<b>78 THP.007</b> Montanti telaio	
	1	<b>78 THP.032</b> Montante anta portoncino	
	1	<b>78 THP.031</b> Traverso anta portoncino	
	1	<b>78 THP.031</b> Traverso anta portoncino	
	3	<b>78 THP.031</b> Montante anta portoncino	
	1	<b>78 THP.035</b> Traverso battuta riportata	
	2	<b>78 THP.035</b> Montante battuta riportata	
	2	<b>60.123</b> Fermavetri	
	4		
	2	<b>78 THP.018</b> Zoccolo	
	2	<b>70.6007</b> Tenuta per spazzolino	



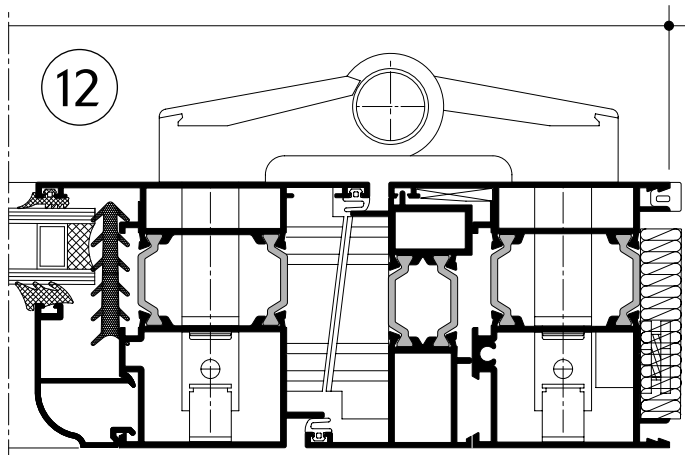
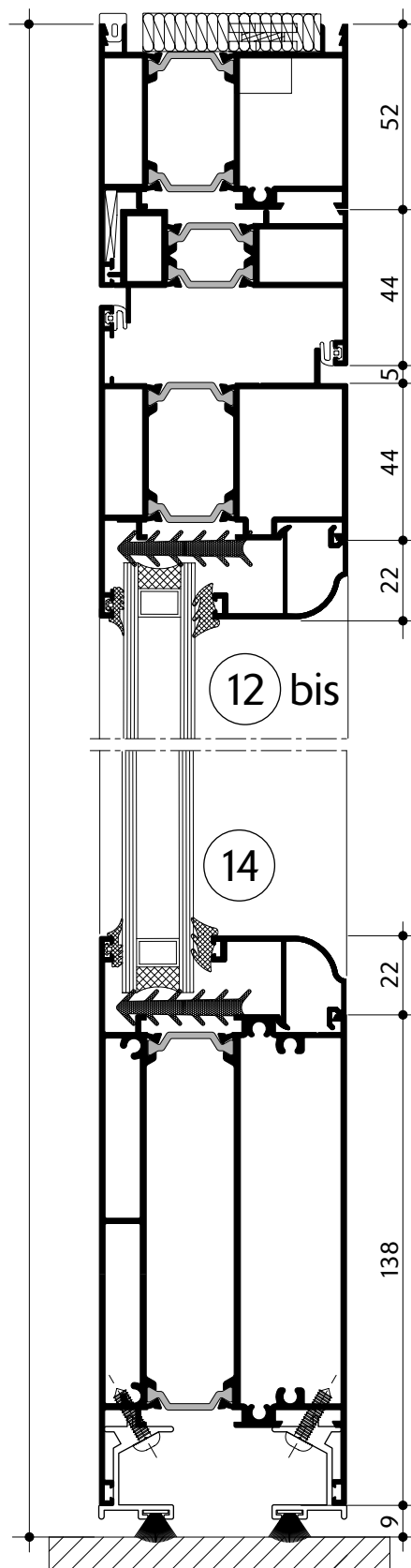


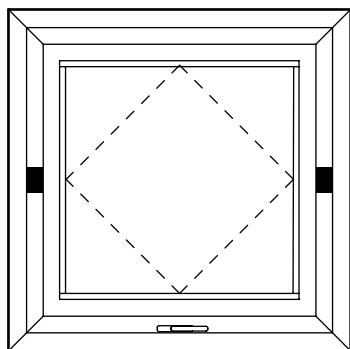
### PORTA A 2 ANTE - APERTURA ESTERNA

ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansione/Rapid Block	10
A105-0496	Squadretta per profili maggiorati	6
A105-0410	Squadretta per 78 THP.035	2
A621-7316	Squadretta allineamento telaio	6
A70-9585	Squadretta tubo esterno anta	6
A126-6117	Tappi di battuta su inver. centr. porte	1
A101-6197	Cerniera Loira a 3 ali inter. mm 93	6
A101-6643T4	Kit di fissaggio per cerniera A101-6197	6
A100-1325	Incontro superiore catenaccio Totem	1
A100-2170	Catenaccio Totem per porte	2
A100-2159	Boccola per soglia	1
A121-6120	Tappi di tenuta aria	2

### GUARNIZIONI

ART.	DESCRIZIONE	N. PZ
A126-2666	Guarnizione di battuta	2L+6H
A126-2178	Guarnizione esterna vetro	2L+4H
A126-2195	Guarnizione interna vetro	2L+4H
619-PB790	Sazzolino	2 L
A126-20212	Guarnizione sotto vetro	2L+4H

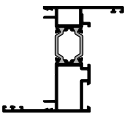
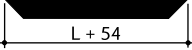
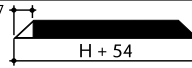
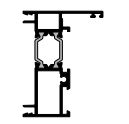
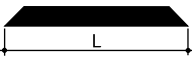
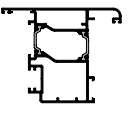
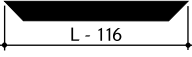
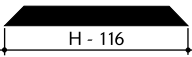
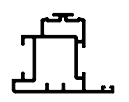
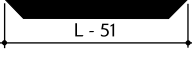
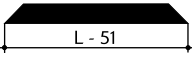
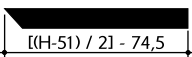
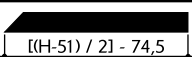

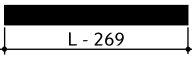
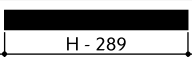





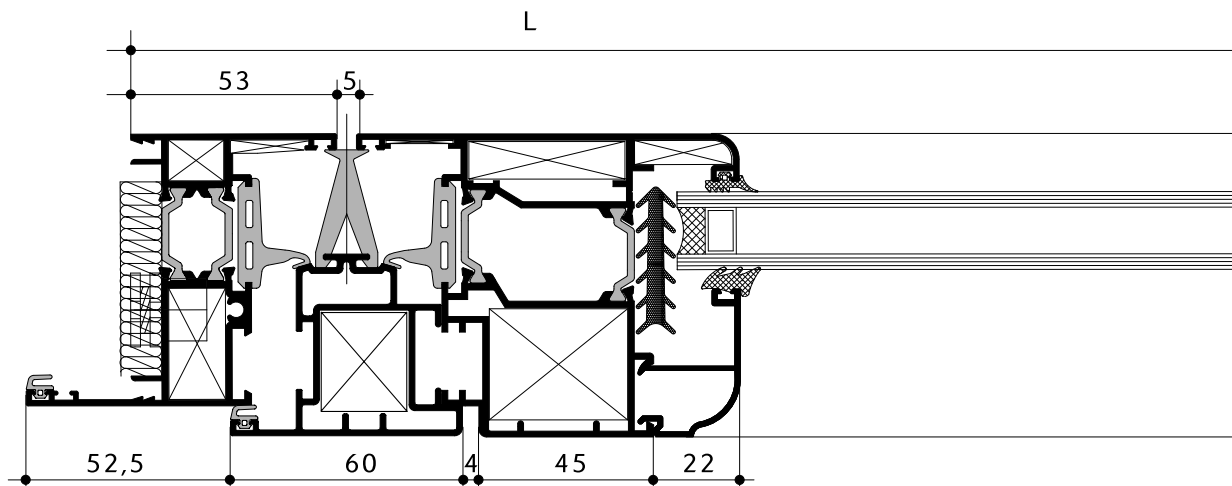
**Note:**

Spessore vetro considerato mm 23  
 Gioco perimetrale tra profilo e vetro mm 6 minimo  
 Vetri N° 1 pezzo (L-281) (H-281)

**FINESTRA AD 1 ANTA A BILICO**

<b>PROFILATI</b>			
<b>Sagoma</b>	<b>N. pezzi</b>	<b>Sigla/Descrizione</b>	<b>Schema di taglio</b>
	1	<b>78 THP.001</b> Traverso telaio	
	2	<b>78 THP.001</b> Montanti telaio	
	1	<b>78 THP.002</b> Traversi telaio	
	2	<b>78 THP.055</b> Traversi anta bilico	
	2	<b>78 THP.055</b> Montanti anta bilico	
	1	<b>78.9861</b> Riporto per bilico	
	1	<b>78.9861</b> Riporto per bilico	
	2	<b>78.9861</b> Riporto per bilico	
	2	<b>78.9861</b> Riporto per bilico	
	2	<b>60.123</b> Fermavetri	
	2		
		<b>60.040</b> Asta di comando (per misure di taglio vedi schema allegato)	

**N.B.: per schemi montaggio accessori vedi pagine 90-91**

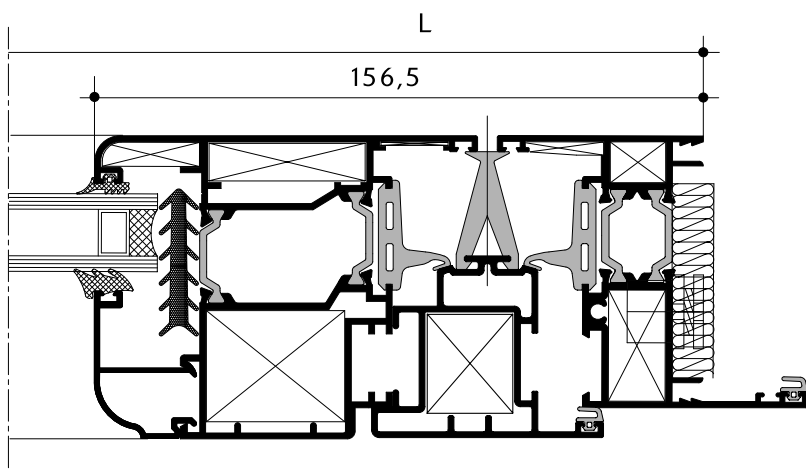
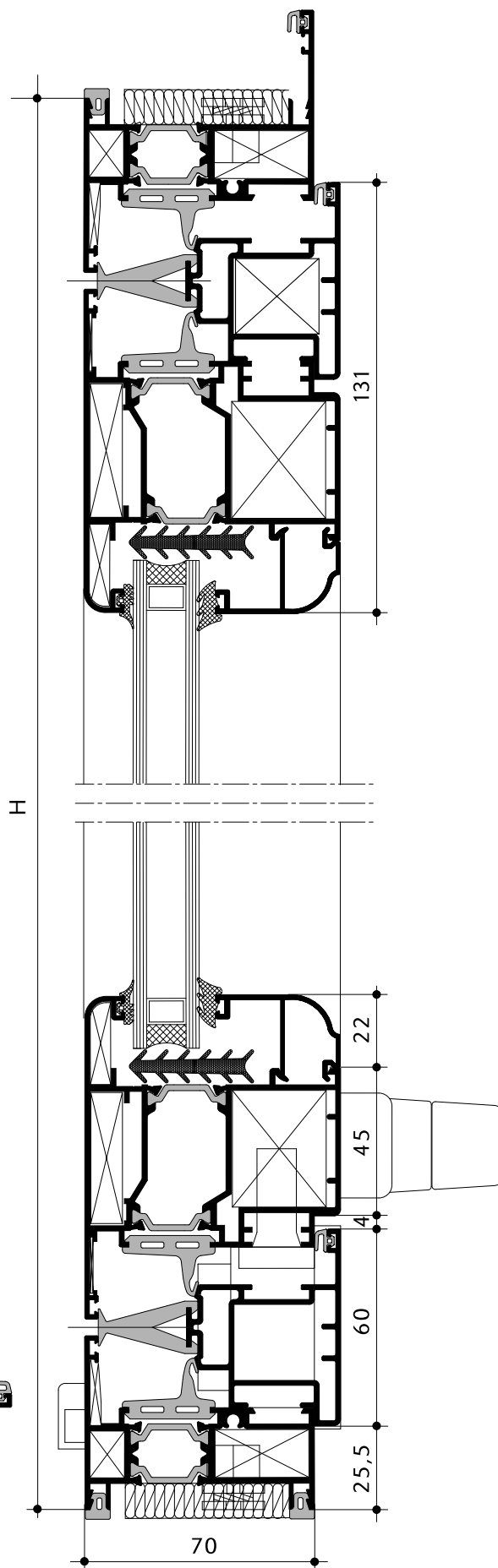


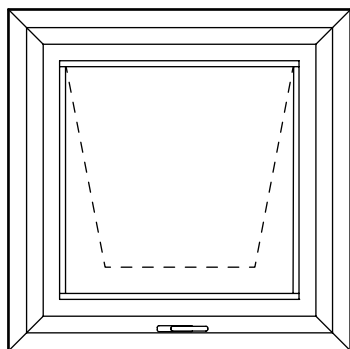
### ACCESSORI BASE PER 1 ANTA A BILICO

ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansore/Rapid Block	7
A105-0409	Squadretta a scatto	4
A621-7316	Squadretta allineamento telaio	4
A70-7219	Squadretta tubolarità esterno telaio	4
A105-0496	Squadretta anta	4
A70-9742	Squadretta tubolarità esterna anta	4
A105-2006	Squadretta allineamento anta	4
6HY-43	Squadretta allineam. aletta int. anta bilico	4
A105-4123	Squadretta per 78.9861	4
A100-2328	Cappetta drenaggio acqua	2
A6-27212-XX	Frizione per bilico orizz. con rinforzi	1
A6-29189-30-XX	Maniglia	1
A6-25948-35	Meccanismo per chiusura	1
A9-13133-40	Vite	2
A6-24529-00	Rinvio d'angolo	2
A6-24539-00	Chiusura supplementare	4
AG-11071-00	Riscontro per chiusure supplementari	6
AK-13393-00	Limitatore d'apertura	1
115-CDISO7M	Spugna adesiva per coibentazione	2L+2H

### GUARNIZIONI

ART.	DESCRIZIONE	N. PZ
A126-2666	Guarnizione di battuta	2L+2H
A126-2178	Guarnizione esterna vetro	2L+2H
A126-2195	Guarnizione interna vetro	2L+2H
A126-2292H	Guarnizione G.A.	4L+4H
A126-4123	Angoli vulcanizzati	4
A126-20139	Guarnizione per bilico	2L+2H
A126-20212	Guarnizione sotto vetro	2L+2H

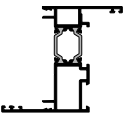
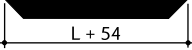
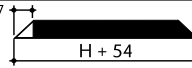
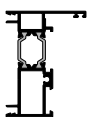
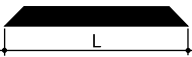

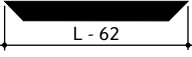
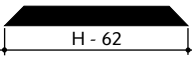
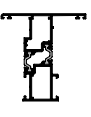
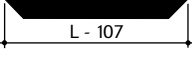
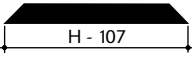

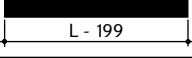
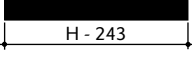

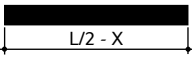
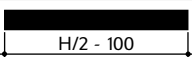

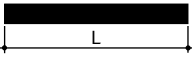


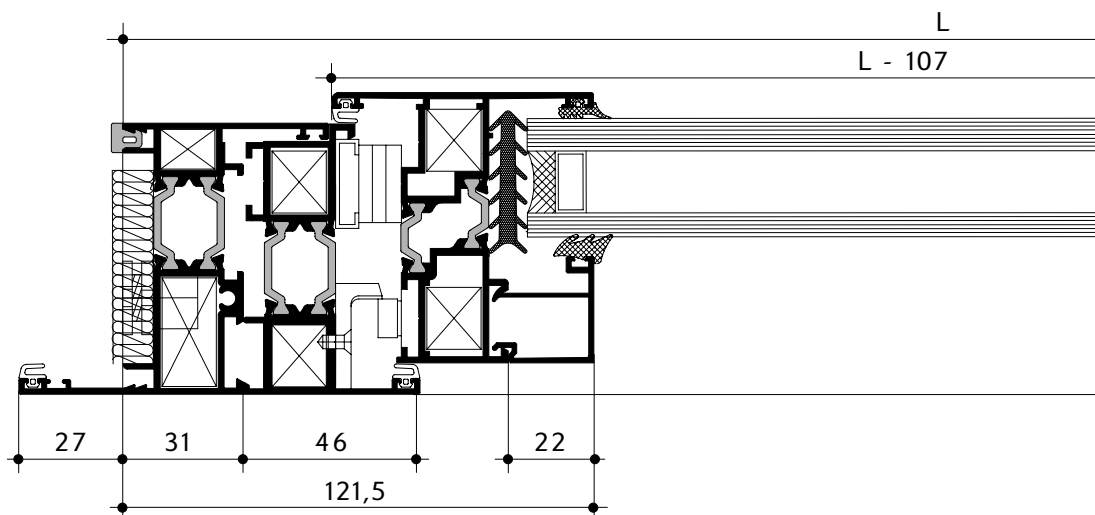


**Note:**

Spessore vetro considerato mm 30  
 Gioco perimetrale tra profilo e vetro mm 7 minimo  
 Vetri N° 1 pezzo (L-213) (H-213)

### FINESTRA AD 1 ANTA A SPORGERE

PROFILATI			
Sagoma	N. pezzi	Sigla/Descrizione	Schema di taglio
	1	78 THP.001 Traverso telaio	
	2	78 THP.001 Montanti telaio	
	1	78 THP.002 Traversi telaio	
	2	78 THP.083 Traversi int. battuta	
	2	78 THP.083 Montanti int. battuta	
	2	78 THP.082 Traversi anta sporg.	
	2	78 THP.082 Montanti anta sporg.	
	2	60.107 Fermavetri	
	2	60.107 Fermavetri	
	2	60.040 Asta di comando	
	2		
	1	Gocciolatoio	

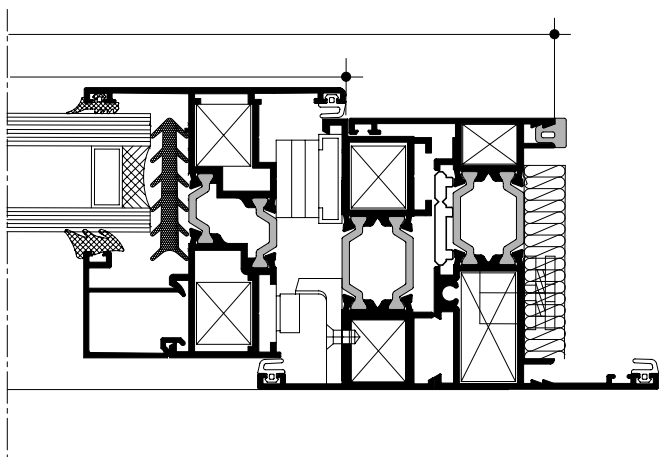
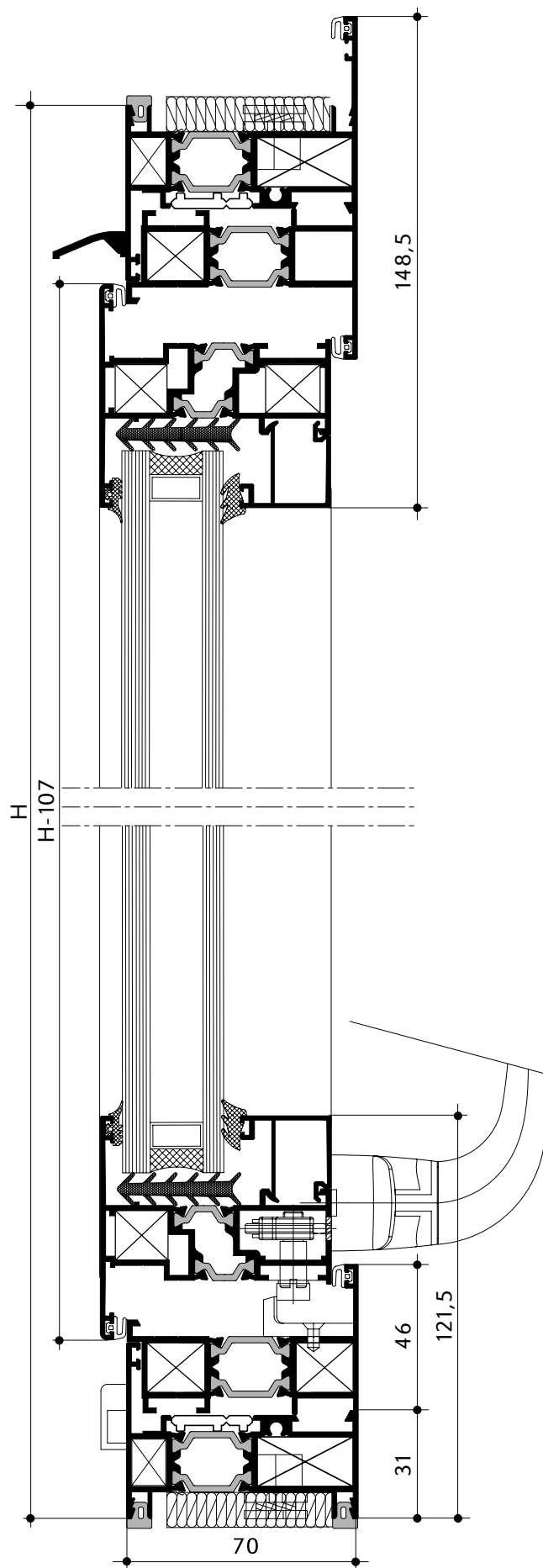


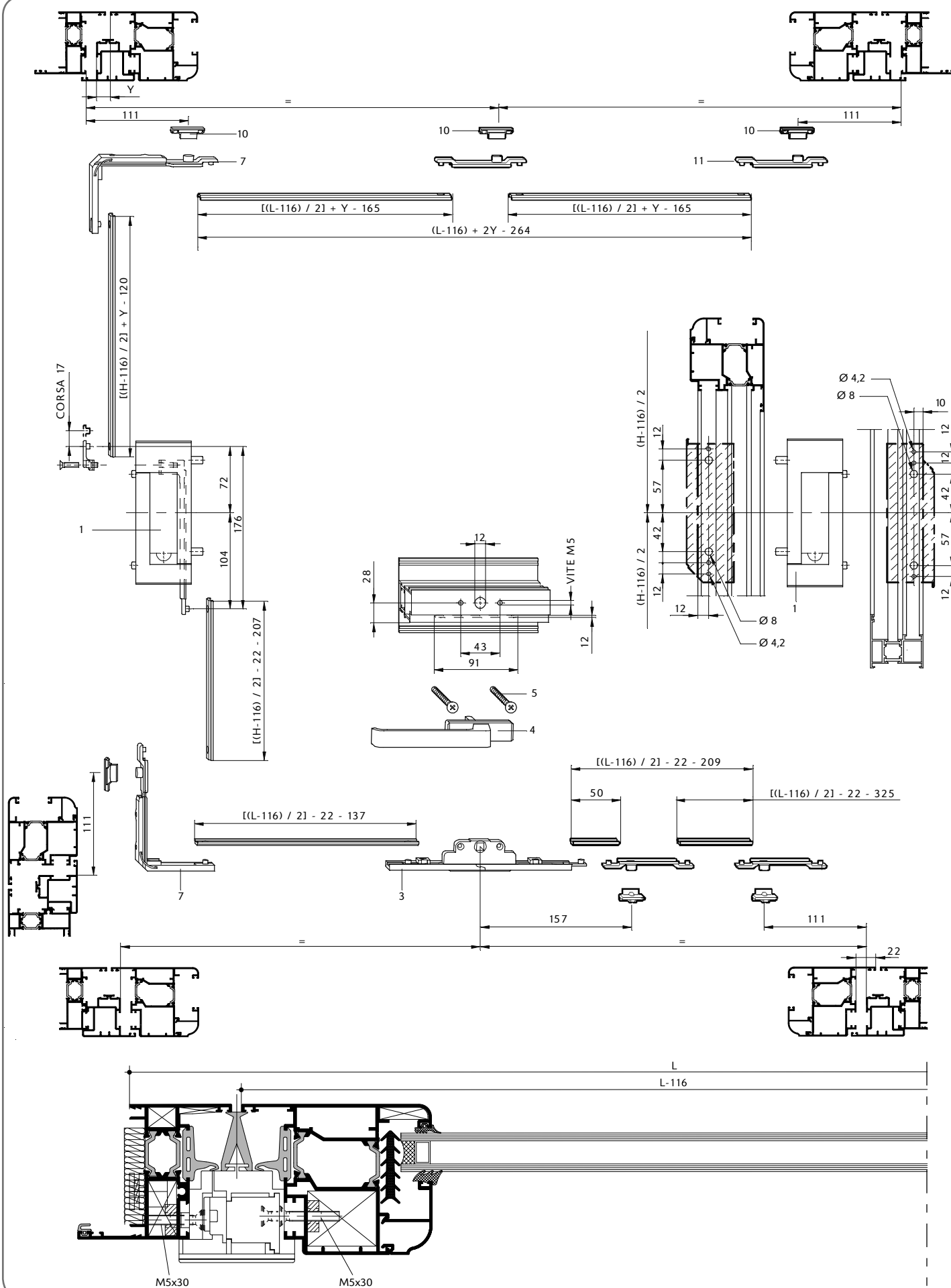
### ACCESSORI BASE PER 1 ANTA A SPORGERE

ART.	DESCRIZIONE	N. PZ
A104-600.01	Espansore/Rapid Block	8
A105-0409	Squadretta a scatto	4
A621-7316	Squadretta allineamento telaio e anta	8
A70-7219	Squadretta tubolarità esterno telaio	4
A605-0427	Squadretta per inversione batt. e anta	16
A621-2136	Squadretta allineamento anta	4
A105-0706	Squadretta inox telaio	2
A100-2328	Cappetta drenaggio acqua	3
A56-46455.XX	Maniglia	1
A70-2812	Riscontro per chiusura	4
A100-4030	Nottolino di chiusura registrabile	4
A56-1204	Rinvio d'angolo	2
A100-01974	Kit spessoramento A50-939E	1
A100-01374	Rostrì chiusura traverso superiore	2
A56-939E	Braccetti per sporgere cp.	1
A56-940A	Limitatore di apertura	1
A56-941	Chiave per sblocco A56-940A	1

### GUARNIZIONI

ART.	DESCRIZIONE	N. PZ
A126-2666	Guarnizione di battuta	5L+6H





### LEGENDA ACCESSORI DI MOVIMENTAZIONE ANTA BILICO

POS.	ART.	DESCRIZIONE	N. PZ
1	A6-27212-XX	Frizione per bilico orizz. con rinforzi	1
4	A6-29189-30-XX	Maniglia	1
3	A6-25948-35	Meccanismo per chiusura	1
5	A9-13133-40	Vite	2
7	A6-24529-00	Rinvio d'angolo	2
11	A6-24539-00	Chiusura supplementare	4
10	AG-11071-00	Riscontro per chiusure supplementari	6
	AK-13393-00	Limitatore d'apertura	1

