



## ALUMINUM PROFILES AND COMPONENTS



Ce catalogue annule et remplace l'édition précédente.

Les informations techniques contenues dans ce catalogue proviennent d'essais de laboratoires ou d'applications dignes de foi, de même que toutes autres informations verbales ou écrites fournies à la demande de l'utilisateur, ont un caractère purement informatif. Aucune garantie ne peut être donnée en ce qui concerne les erreurs éventuelles et elles n'engagent aucunement la responsabilité de la société quant à l'aptitude des produits aux applications spécifiques auxquelles l'utilisateur entend les destiner. Etant à l'écoute de nos clients, nous nous réservons le droit de pouvoir apporter des modifications sur l'évolution de notre gamme de produits du présent catalogue.



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# Quality control

**FLI**

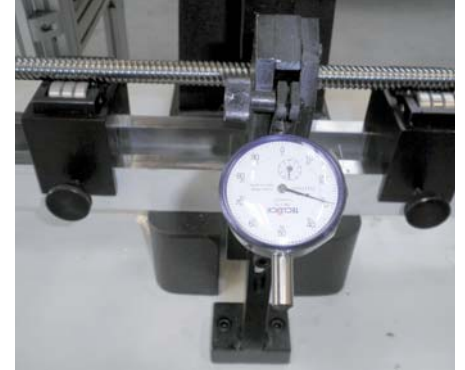
**Knowhow**



**FLI CAN MODIFY  
THE PRELOAD**  
*on ballscrews and linear guideways*



**FLI CAN ALSO MONITOR  
THE TORQUEING LOAD**



**FLI CONTROL  
THE STRAIGHTNESS**  
*of ballscrews and precision shafts*



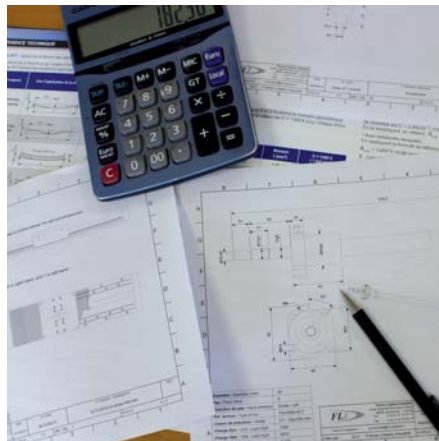
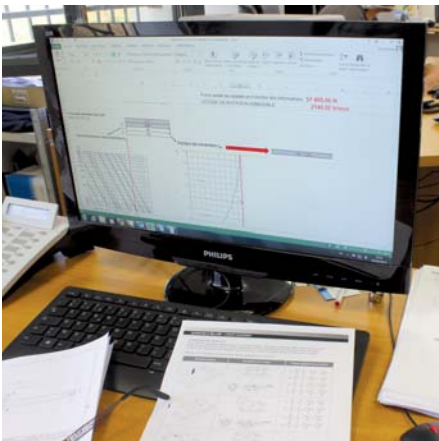
**FLI CAN MONITOR  
THE ROTATING TORQUE**  
*on ball screws*  
*According to ISO 3408-3*



**FLI CONTROL  
THE THICKNESS  
OF CHROMIUM COATING  
and THE HARDNESS OF  
OUR PRECISION SHAFTS**



**FLI GUARANTEE TRACEABILITY**  
*thanks to LASER PRINTING*  
*of our materials*  
*with every client reference*



## **TECHNICAL SUPPORT**

We'll provide you with **technical advice and assistance** and we'll help you choose the most suitable products to fit your needs.

In case of more sophisticated industrial needs, our company can have your study **analyzed and validated** by our engineers, who **will share their insights** with you to optimize the implementation phase.



# Advice

**FLI** stock

## Rolled and ground ballscrews



*Rolled ballscrews  $\varnothing 6$  to 63 / Ground ballscrews from  $\varnothing 12$  to 125 mm on request*

## Housing units for ballscrews and nuts



## Linear guideways



*Steel / Anticorrosion / Aluminium and stainless steel*

## Mechanical Components



*Standard and stainless steel Rod ends / Track rollers / Cam followers*

## Linear tables / Actuators / Track rollers systems





# Manufacture

**FLI** stock

## Precision shafts



*Hardened precision shaft  $\varnothing$  4 to 100 mm / standard / chrome / stainless / hollow*

## Shaft support and housing units



*Standard / compact / self-aligning*

## Precision spline shafts



*Standard / anticorrosion treated / stainless*

## Linear bearings for precision shafts



*Ball bearings  $\varnothing$  3 to 150 mm (compact / self-aligning / stainless) plain bearings*

## Trapezoidal range



**STEEL C35**  
**STAINLESS AISI 316L**

$\varnothing$  10 to 70 mm

*Left and right hand / 2 start possible on request*

# Production

**FLI**

## Core Business

### ➤ Stock / Machining

The stock at FLI comprises a large range of linear components that are available in various sizes, lengths. We offer economic and fast shaft machining, which is done in-house; more recently the company has joined forces with reliable partners to provide customers with new premium components to meet their every need.

### ➤ Cutting and machining:

The warehouse is equipped with two cutting-stations along a 20-meter-long line that can handle up to 1,000 cuts a day and machine (diameters) cross-sections up to 100 mm.



From stock we are ready to deliver:



30,000 meters  
of precision shafts



10,000  
housing units



2,000 meters  
ballscrews

50,000  
linear bearings.

### ➤ Laser-printing of rails:

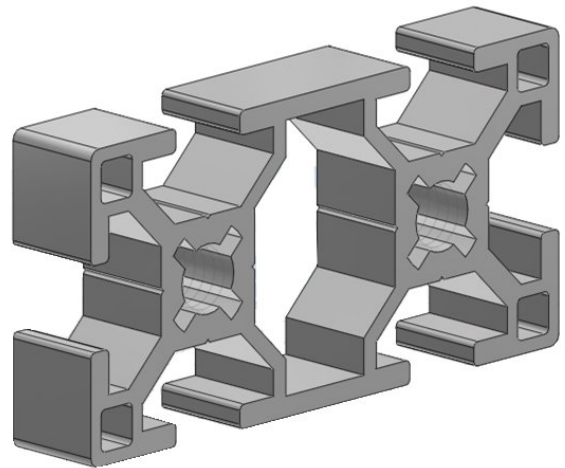
Available for all lengths  
over 4,000 mm  
(with junction fine-tuning)  
to ease final mounting.



### ➤ Quality

Since its early days the company has endeavored to deliver high-quality products that meet and fulfill customers' expectations. Our Sales Administration deal courteously and efficiently with all customers' requests. These factors have contributed to establish **our name both on the national and international markets.**

# Summary





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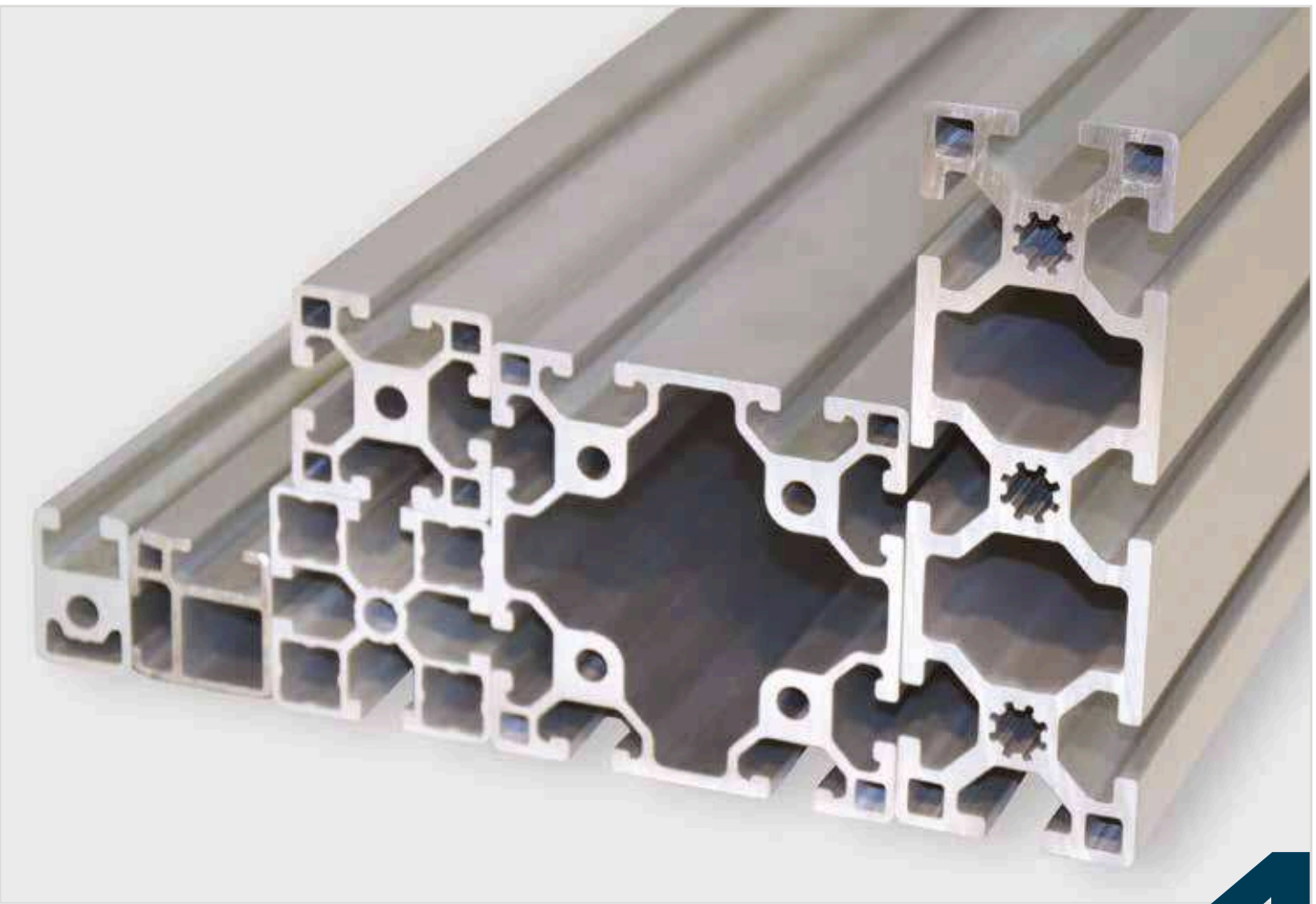
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ALUMINUM PROFILE



## LOAD CONFIGURATION - DEFLECTION

EXTRUDED PROFILES IN ALLOY: EN AW-6060 EN AW-6005 A

PHYSICAL CONDITIONS: T5-T6

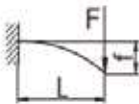
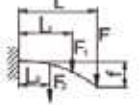
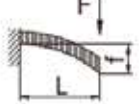
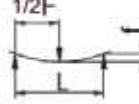
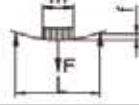
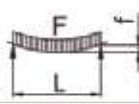
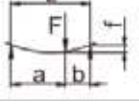
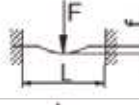
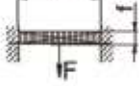
DIMENSIONAL TOLERANCES AND THICKNESS:

Following EN 12020-2

**PROFILE WEIGHT:** Indicated weight is theoretic, and can change following profiles thickness tolerances and dimensional ( EN 12020-2)

**PROFILE DIMENSIONS:** Indicated dimension is theoretic, and can change following profiles dimensional tolerances (EN 12020-2). Dimensional variability could affect minimally the coupling system. Also oxidation surface and painting treatments could allow to change the profile dimensions.

**ALUMINUM PROFILE SURFACE FINISHING:** Profile surface finishing is realized by anodizing or painting. Anodizing has an average thickness of 15 Microns (Class 15 following UNI 4522 - 66 ). Painting is realized following R.A.L. tables and has a minimum thickness of 60 Microns.

	LOAD CONFIGURATION	DEFLECTION
1		$f = \frac{F \cdot L^3}{3 E \cdot I \cdot 10^4}$
2		$f = \frac{F \cdot L^3 + F_1 \cdot L_1^2 \cdot L + F_2 \cdot L_2^2 \cdot L}{3 E \cdot I \cdot 10^4}$
3		$f = \frac{F \cdot L^3}{8 E \cdot I \cdot 10^4}$
4		$f = \frac{F \cdot L^3}{48 E \cdot I \cdot 10^4}$
5		$f = \frac{F \cdot L^3}{\left(48 + \frac{29m}{L}\right) \cdot E \cdot I \cdot 10^4}$
6		$f = \frac{5 F \cdot L^3}{384 E \cdot I \cdot 10^4}$
7		$f = \frac{F \cdot a^2 \cdot b^2}{3 E \cdot I \cdot 10^4 \cdot L}$
8		$f = \frac{F \cdot L^3}{192 E \cdot I \cdot 10^4}$
9		$f = \frac{F \cdot L^3}{384 E \cdot I \cdot 10^4}$

**Lega EN AW-6060**

CARATTERISTICHE FISICHE/PHYSICAL CHARACTERISTICS											
Massa volumica/Density:2,69 g/cm <sup>3</sup> Punto di fusione inferiore/Lower melting point: 605°C Calore specifico a 100 °C:0,92Joule / grammo · °Kelvin Specific heat between 0° and 100 °C Conduttività termica a 20 °C/Thermal conductivity at 20 °C - nello stato/in state 0:2,09Watt / cm · °Kelvin - nello stato/in state T6:1,75Watt / cm · °Kelvin						Coefficiente di dilatazione termica lineare (Linear thermal expansion coefficient) da (from) 20°a (to) 100 °C:23 · 10 <sup>-6</sup> 1 / °Kelvin da (from) 20°a (to) 200 °C:24 · 10 <sup>-6</sup> 1 / °Kelvin da (from) 20°a (to) 300 °C:25 · 10 <sup>-6</sup> 1 / °Kelvin Resistività elettrica a 20 °C/Electrical resistivity at 20 °C - nello stato/in state 0 : 3,14 microOhm · cm - nello stato/in state T6 : 3,25 microOhm · cm Modulo di elasticità /Modulus of elasticity E: 67 000 Newton / mm <sup>2</sup>					
COMPOSIZIONE CHIMICA SECONDO NORMA EUROPEA EN573.3/CHEMICAL COMPOSITION ACCORDING TO EUROPEAN STANDARD EN 573.3											
Designazione della lega Alloy designation	Si	Fe	Cu max	Mn max	Mg	Cr max	Zn max	Ti max	Altri/Others		Al
									Ciascuno Each max	Totale Total max	
ENAW-6060	0,3÷0,6	0,1÷0,3	0,10	0,1	0,35÷0,6	0,05	0,15	0,10	0,05	0,15	resto remaining
PROPRIETÀ MECCANICHE SECONDO NORMA EUROPEA EN755.2/MINIMUM MECHANICAL PROPERTIES, ACCORDING TO EUROPEAN STANDARD EN 755.2											
Tipo di semilavorato Types of profile	STATO DI FORNITURA / TEMPER STATE		Spessore di parete e (mm) Wall Thickness e (mm)	Carico di rottura a trazione Rm (MPa) Tensile strength Rm (MPa)	Carico di scostamento dalla proporzionalità Rp (0.2) (MPa) Limit elasticity load Rp (0.2) (MPa)	Allungamento Elongation					
	Denominazione Denomination	Simbolo Symbol				A %	A50 mm %				
profilato estruso extruded profile	Tempra in acqua + invecchiam. naturale Water tempering + natural aging		T 4 (*)	e ≤ 25	120 min	60 min	16 min	14 min			
	Tempra alla pressa + invecch. artificiale Water tempering + artificial aging		T 5	e ≤ 5 5 < e ≤ 25	160 » 140 »	120 » 100 »	8 » 8 »	6 » 6 »			
	Tempra in acqua + invecchiam. artificiale Water tempering + artificial aging		T 6 (*)	e ≤ 3 3 < e ≤ 25	190 » 170 »	150 » 140 »	8 » 8 »	6 » 6 »			
(*) Proprietà meccaniche dello stato fisico indicato: ottenibili anche con tempra alla pressa (*) Mechanical properties of the indicated physical state: also obtainable by tempering on press											

**Lega ENAW-6005 A**

CARATTERISTICHE FISICHE/ PHYSICAL CHARACTERISTICS											
Massa volumica/Density:2,69 g/cm <sup>3</sup> Punto di fusione inferiore/Lower melting point: 590°C Calore specifico a 100 °C:0,94Joule / grammo · °Kelvin Specific heat between 0° and 100 °C Conduttività termica a 20 °C/Thermal conductivity at 20 °C - nello stato/in state 0:2,01Watt / cm · °Kelvin - nello stato/in state T6:1,82Watt / cm · °Kelvin						Coefficiente di dilatazione termica lineare (Linear thermal expansion coefficient) da (from) 20°a (to) 100 °C:23,3 · 10 <sup>-6</sup> 1 / °Kelvin da (from) 20°a (to) 200 °C:24,2 · 10 <sup>-6</sup> 1 / °Kelvin da (from) 20°a (to) 300 °C:25,1 · 10 <sup>-6</sup> 1 / °Kelvin Resistività elettrica a 20 °C/Electrical resistivity at 20 °C - nello stato/in state 0 : 3,1 microOhm · cm - nello stato/in state T6 : 3,6 microOhm · cm Modulo di elasticità /Modulus of elasticity E: 69 000 Newton / mm <sup>2</sup>					
COMPOSIZIONE CHIMICA SECONDO NORMA EUROPEA EN573.3/CHEMICAL COMPOSITION ACCORDING TO EUROPEAN STANDARD EN 573.3											
Designazione della lega Alloy designation	Si	Fe max	Cu max	Mn max	Mg	Cr max	Zn max	Ti max	Altri/Others		Al
									Ciascuno Each max	Totale Total max	
EN AW-6005 A	0,5÷0,9	0,35	0,30	0,5 (1)	0,4÷0,7	0,3 (1)	0,20	0,10	0,05	0,1	resto remaining
Nota/Note (1): (Mn + Cr) = 0,12÷0,50											
PROPRIETÀ MECCANICHE SECONDO NORMA EUROPEA EN755.2/MINIMUM MECHANICAL PROPERTIES, ACCORDING TO EUROPEAN STANDARD EN 755.2											
Tipo di semilavorato Types of profile	STATO DI FORNITURA / TEMPER STATE		Spessore di parete e (mm) Wall Thickness e (mm)	Carico di rottura a trazione Rm (MPa) Tensile strength Rm (MPa)	Carico di scostamento dalla proporzionalità Rp (0.2) (MPa) Limit elasticity load Rp (0.2) (MPa)	Allungamento Elongation					
	Denominazione Denomination	Simbolo Symbol				A %	A50 mm %				
profilato estruso a sez. aperta extruded profile open section	Tempra in acqua + invecchiam. naturale Water tempering + natural aging		T 4 (*)	e ≤ 25	180 min	90 min	15 min	13 min			
	Tempra in acqua + invecchiam. artificiale Water tempering + artificial aging		T 6 (*)	e ≤ 5 5 < e ≤ 10 10 < e ≤ 25	270 » 260 » 250 »	225 » 215 » 200 »	8 » 8 » 8 »	6 » 6 » 6 »			
profilato estruso con cave extruded profile with shot	Tempra in acqua + invecchiam. naturale Water tempering + natural aging		T 4 (*)	e ≤ 10	180 min	90 min	15 min	13 min			
	Tempra in acqua + invecchiam. artificiale Water tempering + artificial aging		T 6 (*)	e ≤ 5 5 < e ≤ 15	255 » 250 »	215 » 200 »	8 » 8 »	6 » 6 »			
(*) Proprietà meccaniche dello stato fisico indicato: ottenibili anche con tempra alla pressa (*) Mechanical properties of the indicated physical state: also obtainable by hardening on press											

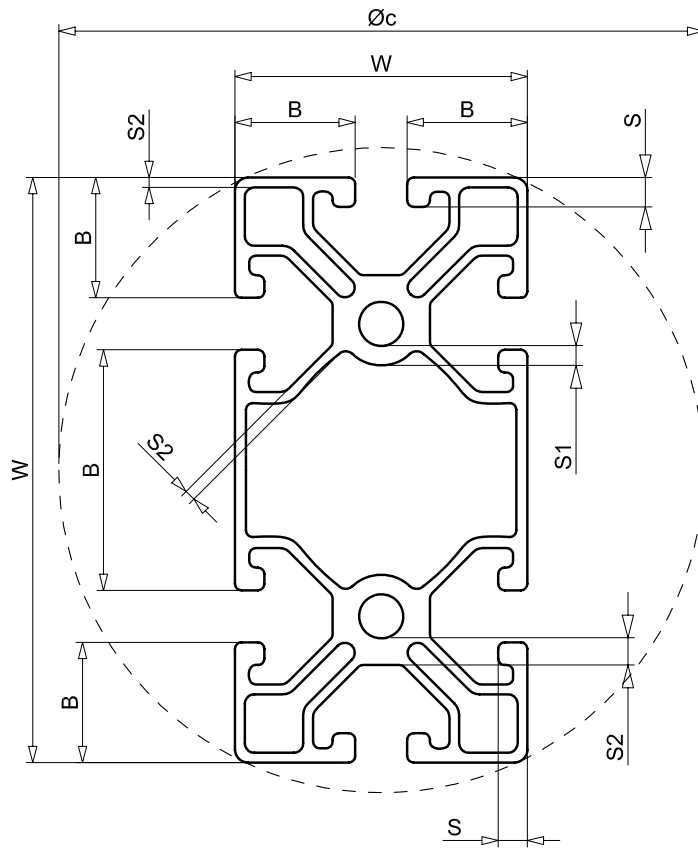
DIMENSIONAL TOLERANCES

DIMENSIONAL AND SHAPE TOLERANCES  
FOLLOWING REGULATION EN 12020-2

Table 1

dimension B o W [mm]		Tolerances on dimension B o W [mm]
over	up to	
	10	±0.15
10	15	±0.2
15	30	±0.25
30	45	±0.3
45	60	±0.4
60	90	±0.45
90	120	±0.6
120	150	±0.8
150	180	±1
180	240	±1.2
240	300	±1.5

Table 1 reports the W and B  
Tolerances for transversal sections



**W** = Dimension related to surfales interrupted by slots

**B** = Dimension related to continuous surfaces

**S** = Wall thickness not adjacent to the cavity

**S<sub>1</sub>, S<sub>2</sub>** = Wall thickness on 1 or more holes

**Ø<sub>C</sub>** = Circle diameter finite

Table 2

Thickness [ mm ]		Thicknes Tolerances S, S <sub>1</sub> , S <sub>2</sub> related on finite circle diameter Øc			
over	up to	S		S <sub>1</sub>	S <sub>2</sub>
		Øc ≤ 100	Øc 100 ≤ 300	Øc ≤ 100	Øc 100 ≤ 300
	1.5	±0.15	±0.2	±0.2	±0.3
1.5	3	±0.15	±0.25	±0.25	±0.4
3	6	±0.2	±0.3	±0.4	±0.6
6	10	±0.25	±0.35	±0.6	±0.8
10	15	±0.3	±0.4	±0.8	±1
15	20	±0.35	±0.45	±1.2	±1.5
20	30	±0.4	±0.5	-	-
30	40	±0.45	±0.6	-	-

Thickness tolerances:  
indicated  
on table 2

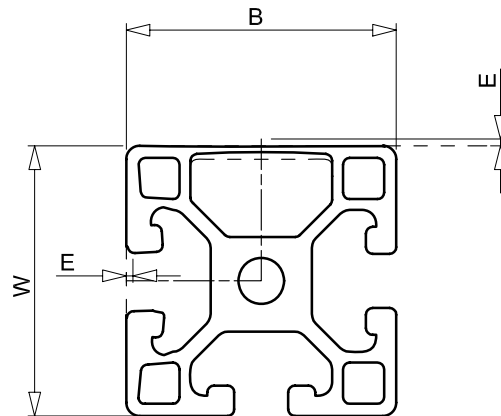


**PLANARITY TOLERANCES**

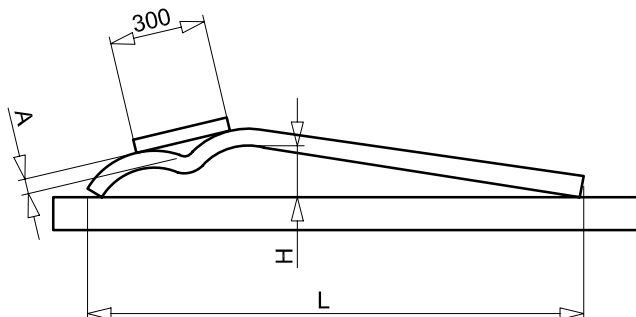
Table 3

Dimension B o W [ mm ]		Planarity Tolerances E [ mm ]
over	up to	
	30	0.2
30	60	0.3
60	100	0.4
100	150	0.5
150	200	0.7
200	250	0.85
250	300	1

Tables values are valid as well for band W dimension related to slot interrupted surfaces



**STRAIGHTNESS TOLERANCES IN LONGITUDINAL DIRECTION**

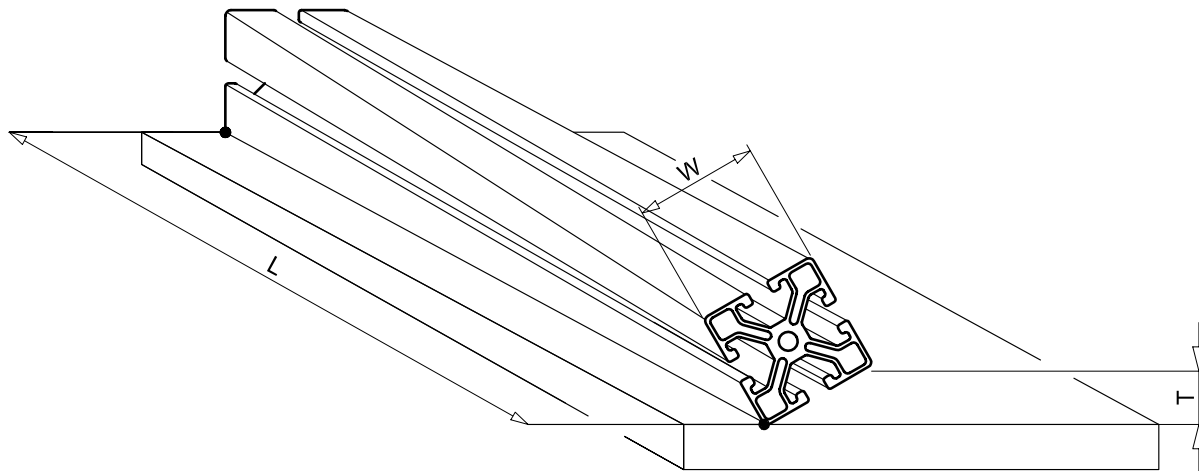


For local deformation deviator a referred to a 300 mm base, does not have to exceed 0,3 mm. while complete deformation H must respect the limit on table.

Table 4

LENGHT L [mm]	up to 1000	from 1000 to 2000	from 2000 to 3000	from 3000 to 4000	from 4000 to 5000	from 5000 to 6000	over 6000
TOLERANCE H [mm]	0.7	1.3	1.8	2.2	2.6	3	3.5

### TWISTING TOLERANCE



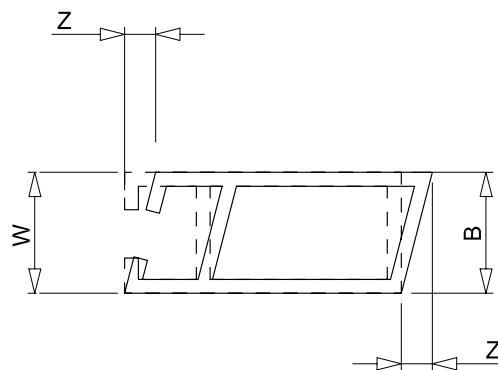
Tolleranze di svergolamento T in funzione della lunghezza L [mm]

Width W [mm]		Tolleranze di svergolamento T in funzione della lunghezza L [mm]							by agreement
over	up to	up to 1000	over 1000 up to 2000	over 2000 up to 3000	over 3000 up to 4000	over 4000 up to 5000	over 5000 up to 6000	over 6000	
over 25	up to 25	1	1.5	1.5	2	2	2		
25	50	1	1.2	1.5	1.8	2	2		
50	75	1	1.2	1.2	1.5	2	2		
75	100	1	1.2	1.5	2	2.2	2.5		
100	125	1	1.5	1.8	2.2	2.5	3		
125	150	1.2	1.5	1.8	2.2	2.5	3		
150	200	1.5	1.8	2.2	2.6	3	3.5		
200	300	1.8	2.5	3	3.5	4	4.5		

### PERPENDICULAR TOLERANCES

Tabella 6

B o W [mm]		DIMENSION TOLERANCES Z [mm]
over	up to	
	30	0.3
30	50	0.4
50	80	0.5
80	100	0.6
100	120	0.7
120	140	0.8
140	160	0.9
160	180	1
180	200	1.2
200	240	1.5

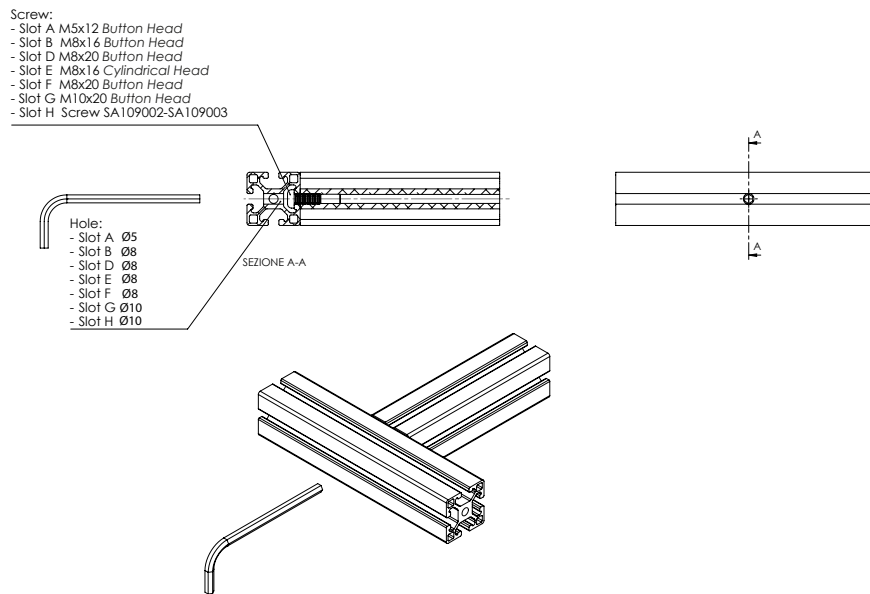


## PROFILES FASTENING

Fastening Methods for aluminum extrusions for construction mounting, would be chosen according to the realization speed and requested load condition.

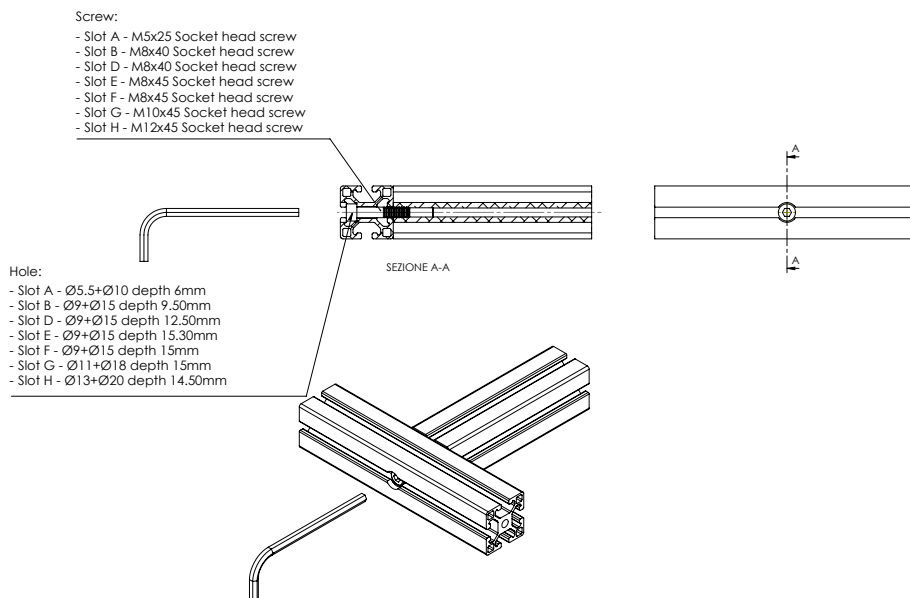
### 1) SCREW IN SLOT FASTENING

This is the easier and faster fastening. It allows to obtain a good perpendicularity between surfaces and good resistance features.


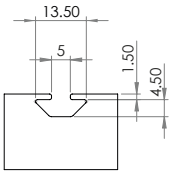

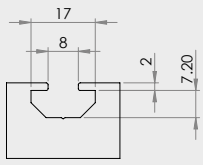

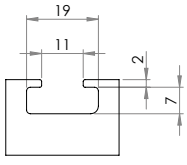

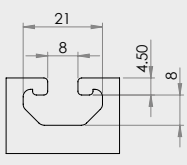


### 2) THROUGH SCREW AND COUNTERSINK FASTENING

This fastening type, allows a better junction resistance. Perpendicularity features are fair ( it depends on the profile cutting accuracy). The Through screw mounting ensure the anti-slipping in case of the screw loosening.



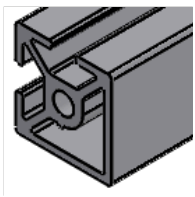
## SLOT SYMBOL

SLOT SYMBOL	SLOT SECTION	HOLE	SLOT WIDTH (mm)	SLOT DEPTH (mm)	WALL THICKNESS (mm)	PROFILES GROUP
		4.30	5	4.5	1.5	SERIE 20
		6.80	8	7.20	2	SERIE 30
		-	11	7	2	SERIE 30
		6.80	8	8	4.5	SERIE 40

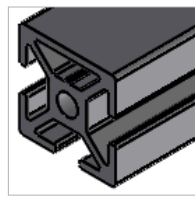
# SLOT SYMBOL

SLOT SYMBOL	SLOT SECTION	HOLE	SLOT WIDTH (mm)	SLOT DEPTH (mm)	WALL THICKNESS (mm)	PROFILES GROUP
<p>E</p> <p>8.2</p> <p>16.50</p> <p>SERIE 45</p>		7.30	8.2	12	4.5	SERIE 45
<p>F</p> <p>8</p> <p>15</p> <p>SERIE 45</p>		6.80	8	10.5	4.5	SERIE 45
<p>G</p> <p>10.20</p> <p>14.50</p> <p>SERIE 45</p>		8.5	10.2	8.5	6	SERIE 45
<p>H</p> <p>10.1</p> <p>15</p> <p>SERIE 45</p>		9.9	10.1	10.5	4.5	SERIE 45

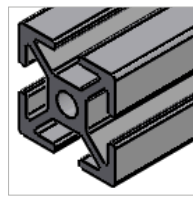
## 1.1 ALUMINUM PROFILE SERIES 20



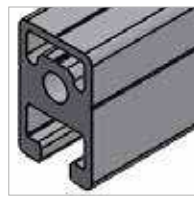
20x20 2 slots



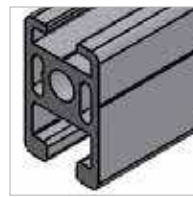
20x20 3 slots



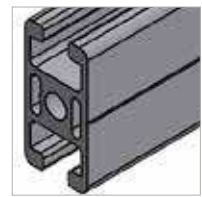
20x20 4 slots



20x32 1 slot

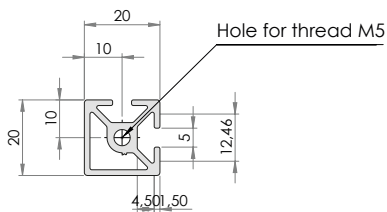


20x32 2 slots

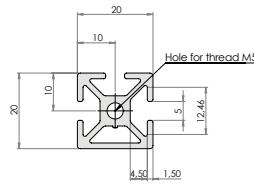


20x40 2 slots

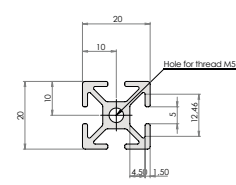
SA020020AL0205M



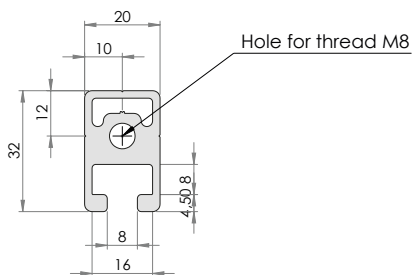
SA020020AL0305M



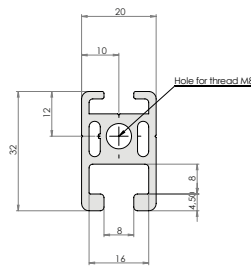
SA020020AL0405M



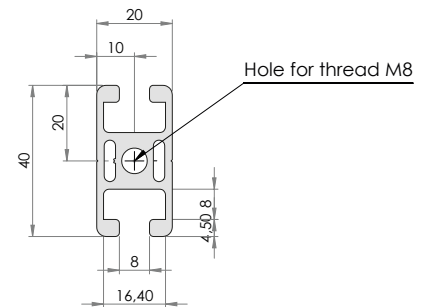
SA020032AL0108M



SA020032AL0208M



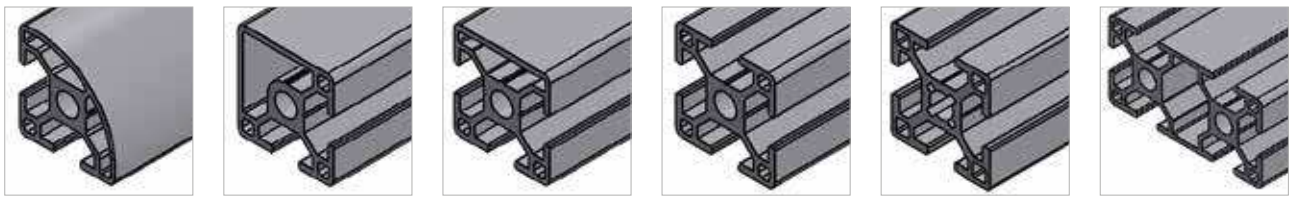
SA020040AL0208M



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA020020AL0205M	PROFILE 20x20 LIGHT	A	0,459	0,69	0,69	0,69	0,69
SA020020AL0305M	PROFILE 20x20 LIGHT	A	0,481	0,64	0,71	0,64	0,68
SA020020AL0405M	PROFILE 20x20 LIGHT	A	0,459	0,68	0,68	0,68	0,68
SA020032AL0108M	PROFILE 20x32 LIGHT	D	0,948	2,702	1,579	1,582	1,579
SA020032AL0208M	PROFILE 20x32 LIGHT	D	0,813	2,433	1,428	1,478	1,428
SA020040AL0208M	PROFILE 20x40 LIGHT	D	0,977	4,463	1,722	2,232	1,722



## 1.2 ALUMINUM PROFILE SERIES 30



30x30 R 2 slots

30x30 2 slots

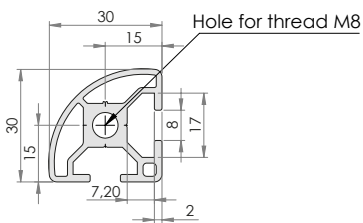
30x30 3 slots

30x30 4 slots

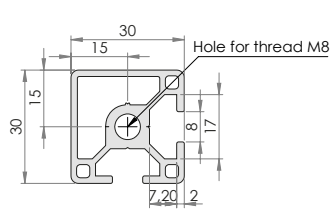
30x30 4 slots

30x60 6 slots

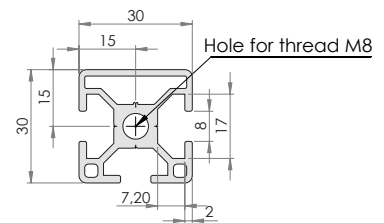
SA030030RL0208M



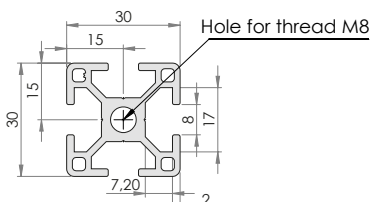
SA030030AL0208M



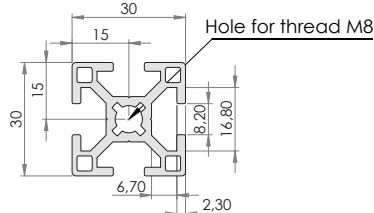
SA030030AL0308M



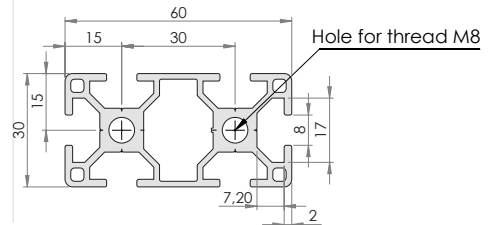
SA030030AL0408M



SA030030AL0408B

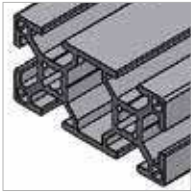


SA030060AL0608M

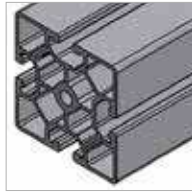


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA030030RL0208M	PROFILE 30x30 ROUND LIGHT	B	0,778	2,177	2,175	1,341	1,338
SA030030AL0208M	PROFILE 30x30 LIGHT	B	0,853	2,883	2,882	1,904	1,902
SA030030AL0308M	PROFILE 30x30 LIGHT	B	0,867	2,923	2,741	1,942	1,827
SA030030AL0408M	PROFILE 30x30 LIGHT	B	0,872	2,85	2,85	1,9	1,9
SA030030AL0408B	PROFILE 30x30 LIGHT	B	0,875	2,9	2,9	1,93	1,93
SA030060AL0608M	PROFILE 30x60 LIGHT	B	1,49	4,994	20,149	3,329	6,716

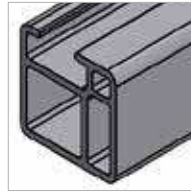
1.2 ALUMINUM PROFILE SERIES 30



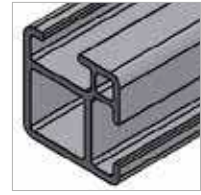
30x60 6 slots



60x60 4 slots

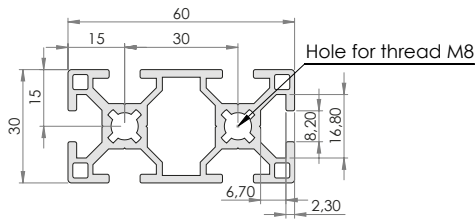


30x30 frame 1 slot

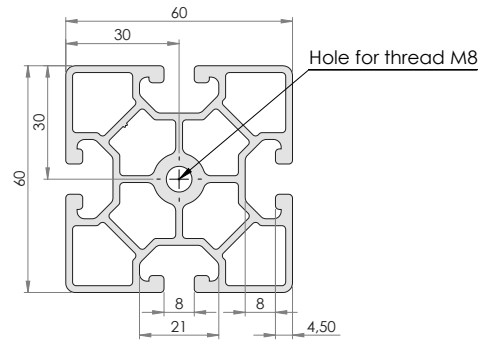


30x30 frame 2 slots

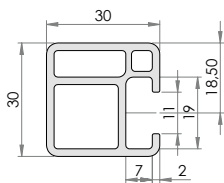
SA030060AL0608B



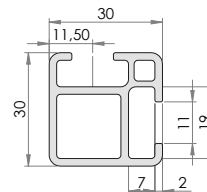
SA060060AL0408M



SAF030030AL0111M

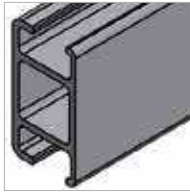


SAF030030AL0211M

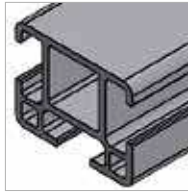


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA030060AL0608B	PROFILE 30x60 LIGHT	B	1,512	5,3	20,2	3,53	6,73
SA060060AL0408M	PROFILE 60x60 LIGHT	D	2,856	35,4	35,4	11,8	11,8
SAF030030AL0111M	PROFILE FRAME 30x30 LIGHT	C	0,783	5,42	5,45	3,62	3,63
SAF030030AL0211M	PROFILE FRAME 30x30 LIGHT	C	0,721	5,42	5,42	3,62	3,62

## 1.2 ALUMINUM PROFILE SERIES 30



21x40 frame 2 slots

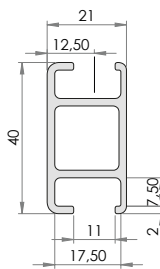


30x39 frame 3 slots

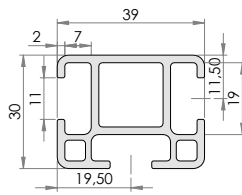


21x135° frame 2 slots

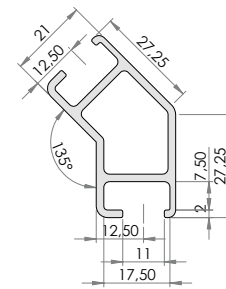
SAF021040AL0211M



SAF030039AL0311M

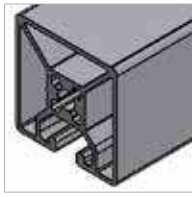


SAF021135BL0211M

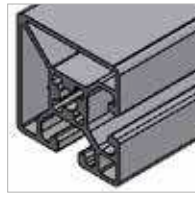


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SAF021040AL0211M	PROFILE FRAME 21x40 LIGHT	C	0,656	3,29	1,62	1,64	1,55
SAF030039AL0311M	PROFILE FRAME 30x39 LIGHT	C	0,921	3,694	5,238	2,42	2,686
SAF021135BL0211M	PROFILE FRAME 21x135° LIGHT	C	0,748	5,18	2,2	2	3,62

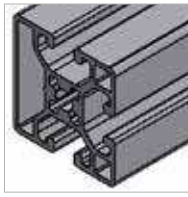
## 1.3 ALUMINUM PROFILE SERIES 40 EXTRA LIGHT



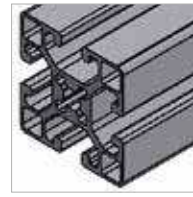
40x40 1 slot



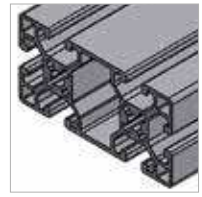
40x40 2 slots



40x40 3 slots

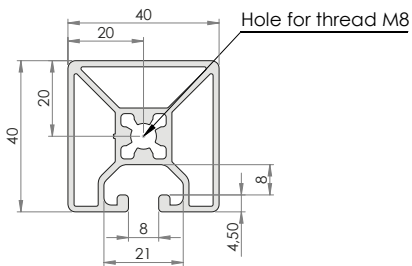


40x40 4 slots

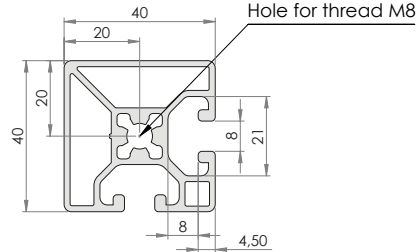


40x80 6 slots

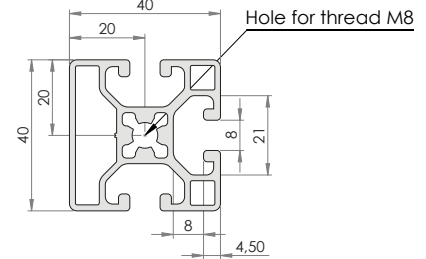
SA040040AX0108M



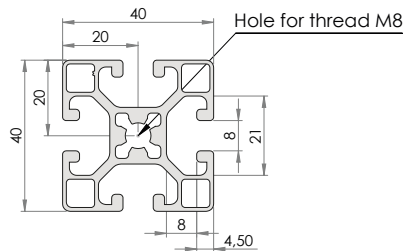
SA040040AX0208M



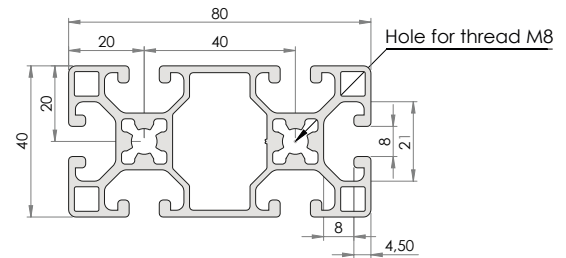
SA040040AX0308M



SA040040AX0408M

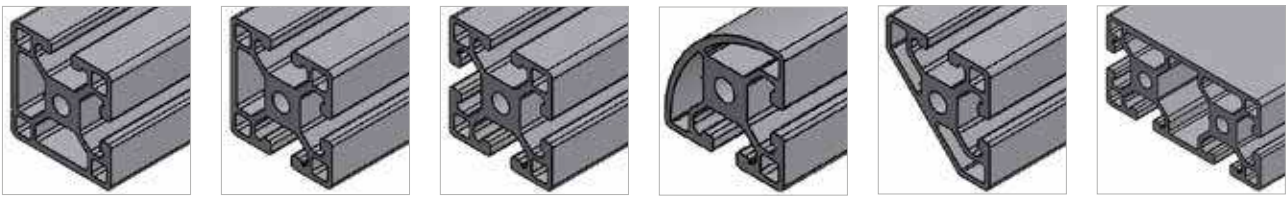


SA040080AX0608M



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA040040AX0108M	PROFILE 40x40 EXTRA-LIGHT	D	1,283	7,841	7,601	3,891	3,8
SA040040AX0208M	PROFILE 40x40 EEXTRA-LIGHT	D	1,326	7,852	7,855	3,849	3,852
SA040040AX0308M	PROFILE 40x40 EXTRA-LIGHT	D	1,369	8,096	7,795	4,048	3,736
SA040040AX0408M	PROFILE 40x40 EXTRA-LIGHT	D	1,318	7,132	7,132	3,564	3,564
SA040080AX0608M	PROFILE 40x40EXTRA-LIGHT	D	2,432	15,15	59,684	7,576	14,921

## 1.4 ALUMINUM PROFILE SERIES 40 LIGHT



40x40 2 slots

40x40 3 slots

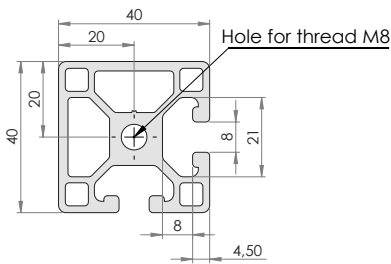
40x40 4 slots

40x40 R 2 slots

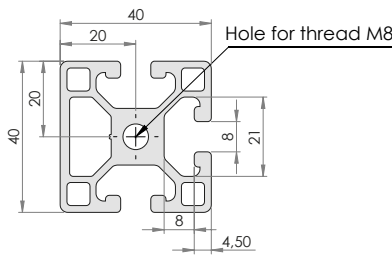
40x40 2 slots

40x80 4 slots

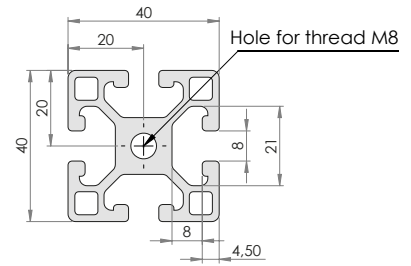
SA040040AL0208M



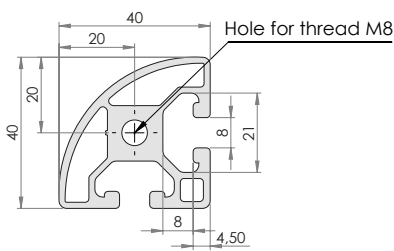
SA040040AL0308M



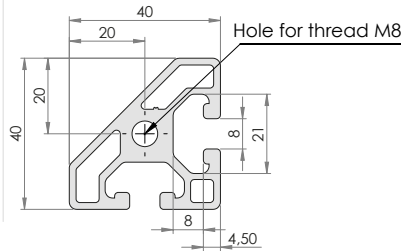
SA040040AL0408M



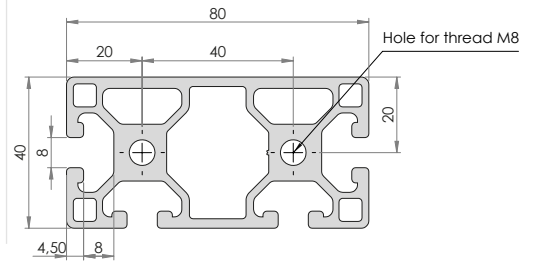
SA040040RL0208M



SA040040BL0208M

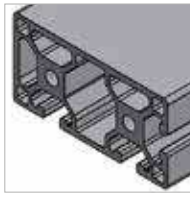


SA040080AL0408M

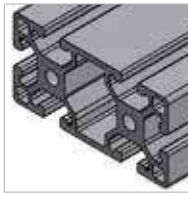


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA040040AL0208M	PROFILE 40x40 LIGHT	D	1,709	9,878	9,878	4,921	4,921
SA040040AL0308M	PROFILE 40x40 LIGHT	D	1,749	9,786	10,005	4,888	4,979
SA040040AL0408M	PROFILE 40x40 LIGHT	D	1,79	9,913	9,913	4,957	4,957
SA040040RL0208M	PROFILE 40x40 ROUND LIGHT	D	1,463	6,809	6,808	3,044	3,052
SA040040BL0208M	PROFILE 40x40x45° LIGHT	D	1,401	6,41	6,41	2,777	2,777
SA040080AL0408M	PROFILE 40x80 LIGHT	D	3,105	19,52	73,254	9,536	18,311

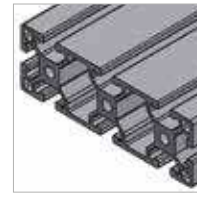
## 1.4 ALUMINUM PROFILE SERIES 40 LIGHT



40x80 3 slots

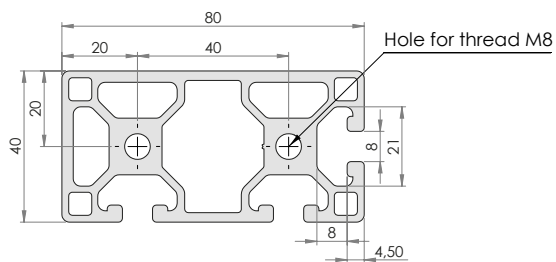


40x80 6 slots

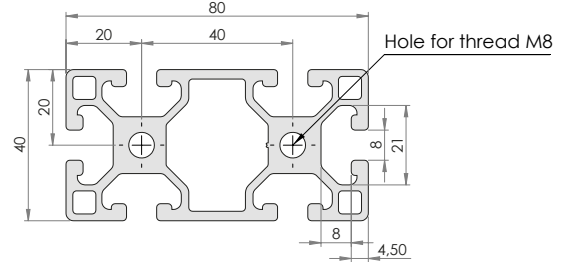


40x120 8 slots

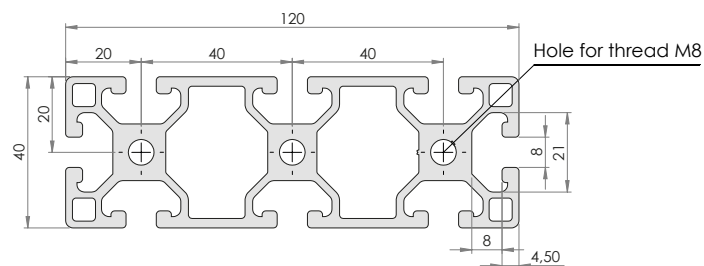
SA40080AL308M



SA040080AL0608M



SA040120AL0808M



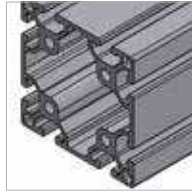
CODE	PROILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA040080AL0308M	PROFILE 40x80 LIGHT	D	3,14	19,493	75,379	9,525	18,63
SA040080AL0608M	PROFILE 40x80 LIGHT	D	3,032	18,458	72,237	9,229	18,059
SA040120AL0808M	PROFILE 40x120 LIGHT	D	4,227	27,002	224,42	13,501	37,403



## 1.4 ALUMINUM PROFILE SERIES 40 LIGHT



40x180 10 slots



80x80 8 slots

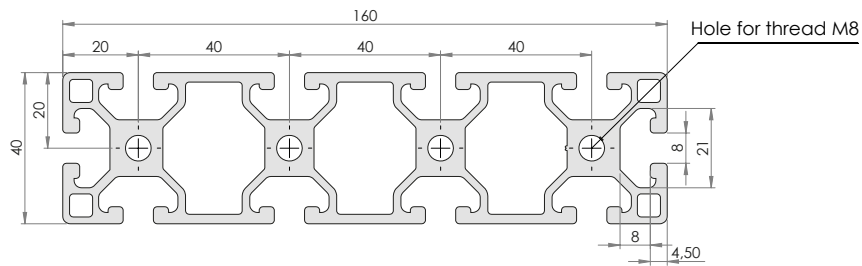


80x120 10 slots

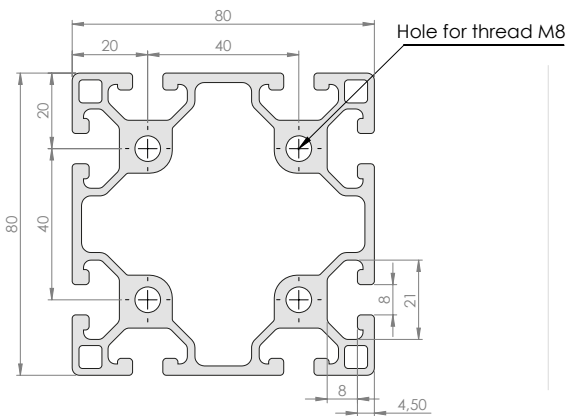


80x160 12 slots

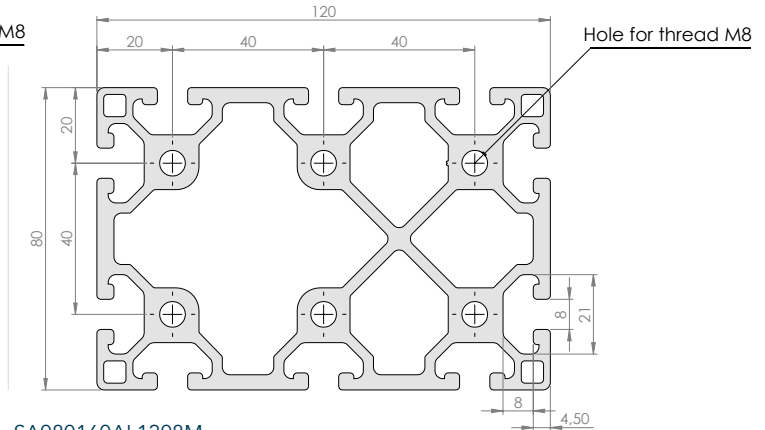
SA040160AL1008M



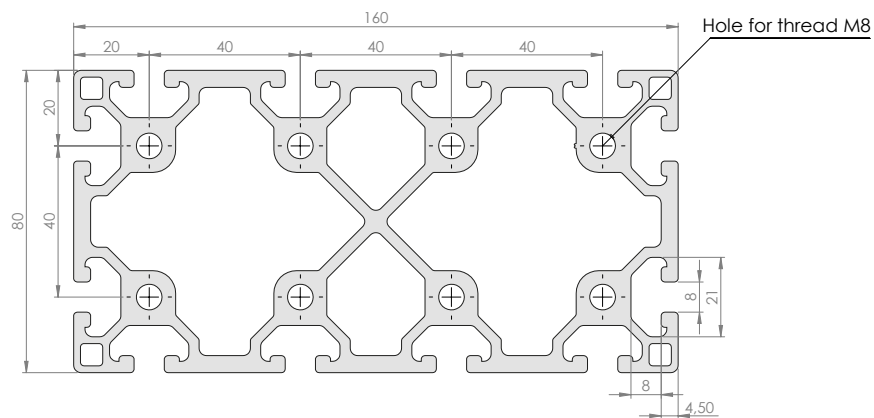
SA080080AL0808M



SA080120AL1008M

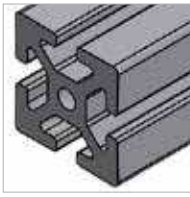


SA080160AL1208M



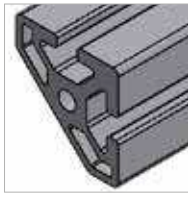
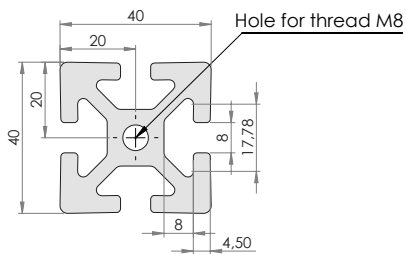
CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA040160AL1008M	PROFILE 40x160 LIGHT	D	5,516	35,546	503,2	17,722	62,899
SA080080AL0808M	PROFILE 80x80 LIGHT	D	4,574	124,76	124,76	31,19	31,19
SA080120AL1008M	PROFILE 80x120 LIGHT	D	7,746	202,01	422,18	50,501	68,337
SA080160AL1208M	PROFILE 80x120 LIGHT	D	9,707	270,19	898,67	67,541	112,32

## 1.5 ALUMINUM PROFILE SERIES 40 HEAVY



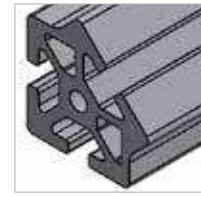
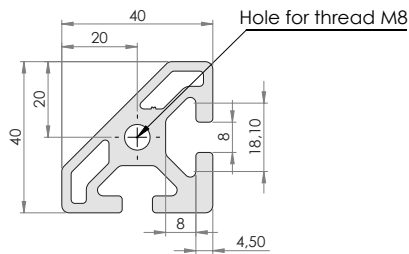
40x40 4 slots

SA040040PP0408M



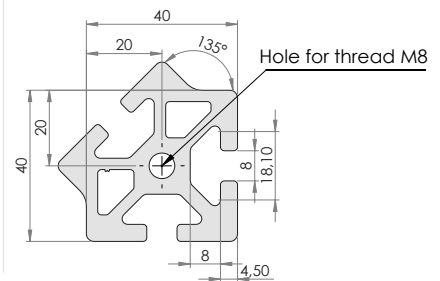
40x40 2 slots

SA040040BP0208M



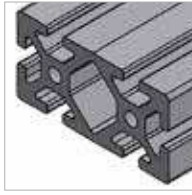
40x40 3 slots

SA040040CP0308M

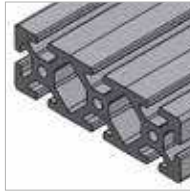


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA040040PP0408M	PROFILE 40x40 HEAVY PRELOAD	D	2,376	14,002	14,002	7,001	7,001
SA040040BP0208M	PROFILE 40x40x45° HEAVY	D	1,763	8,349	8,349	3,55	3,55
SA040040CP0308M	PROFILE 40x40x45° HEAVY	D	2,535	15,753	15,756	5,852	5,853

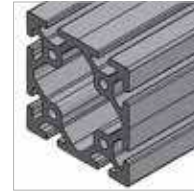
# 1.5 ALUMINUM PROFILE SERIES 40 HEAVY



40x80 6 slots



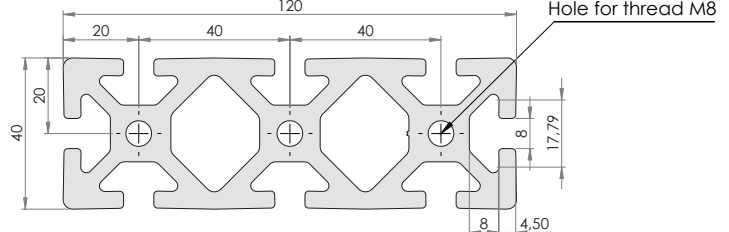
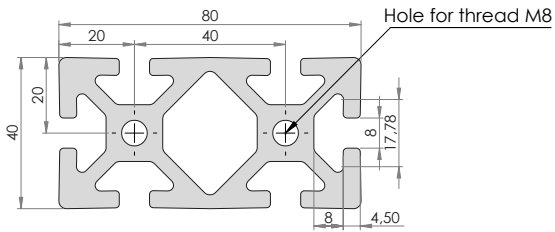
40x120 8 slots



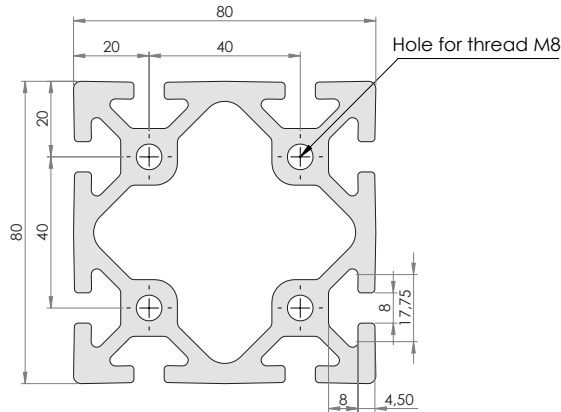
80x80 8 slots

SA040080PP0608M

SA040120PP0808M



SA080080PP0808M



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA040080PP0608M	PROFILE 40X80 HEAVY PRELOAD	D	4,207	26,011	98,219	13,006	24,555
SA040120PP0808M	PROFILE 40X80 HEAVY PRELOAD	D	6,032	38,96	311,22	19,481	51,897
SA080080PP0808M	PROFILE 40X80 HEAVY PRELOAD	D	6,539	175,68	175,68	43,92	43,92

1.5 ALUMINUM PROFILE SERIES 40 HEAVY

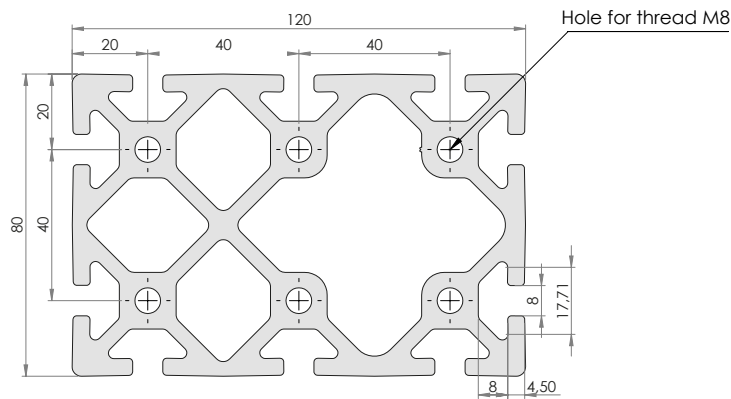


80x120 10 slots

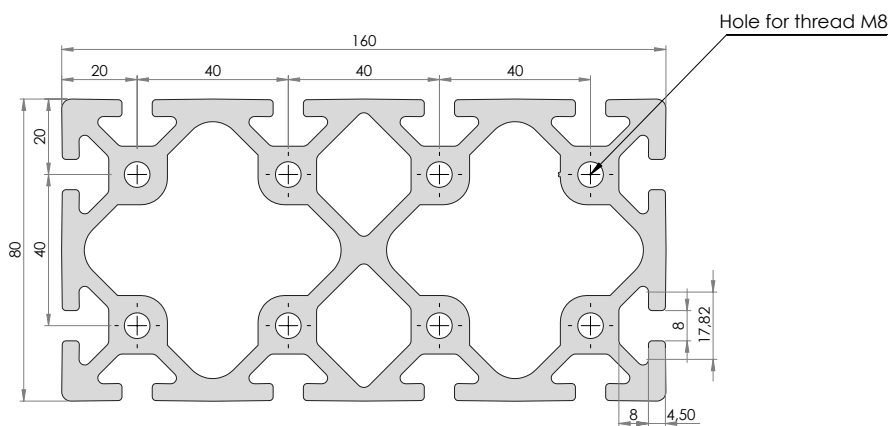


80x160 12 slots

SA080120PP1008M



SA080160PP1208M



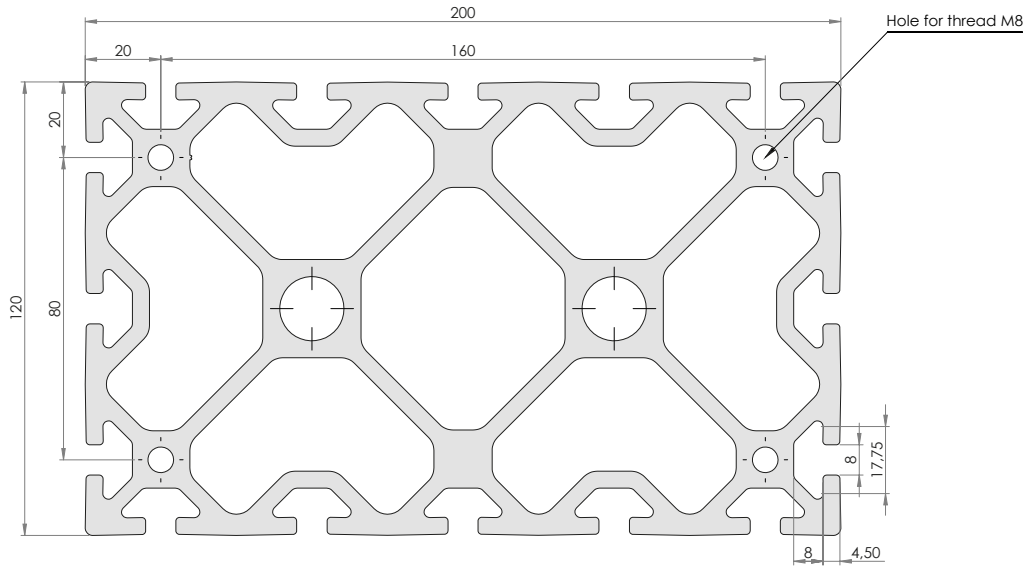
CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA080120PP1008M	PROFILE 80x120 HEAVY PRELOAD	D	9,642	253,73	529,59	63,417	85,922
SA080160PP1208M	PROFILE 80x160 HEAVY PRELOAD	D	12,29	335,46	1147,89	83,868	143,48

## 1.5 ALUMINUM PROFILE SERIES 40 HEAVY



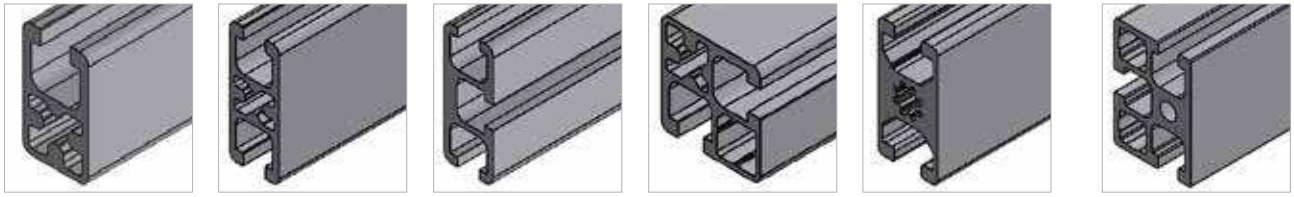
120x200 16 slots

SA120200PP1608M



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA120200PP1608M	PROFILE120x200HEAVY PRELOAD	D	20,26	1208,72	3022,65	201,45	302,26

## 1.6 ALUMINUM PROFILE SERIES 45 LIGHT



18,5x32 1 slot

18,5x45 2 slots

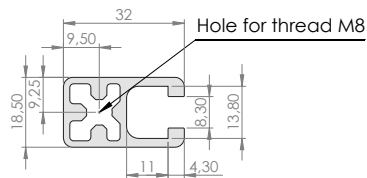
18,5x45 3 slots

32x32 2 slots

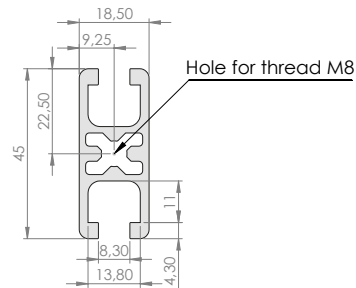
45x22,5 2 slots

45x32 3 slots

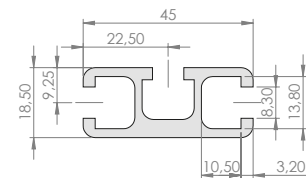
SA185032AL0108T



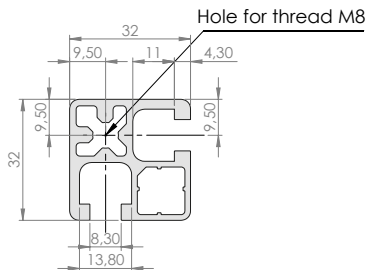
SA185045AL0208T



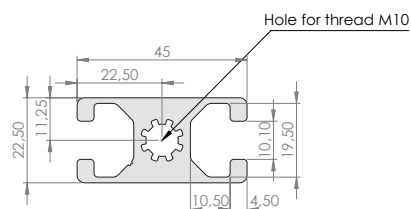
SA185045AL0308T



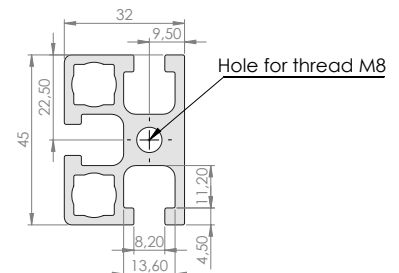
SA032032AL0208T



SA045225AL0210M



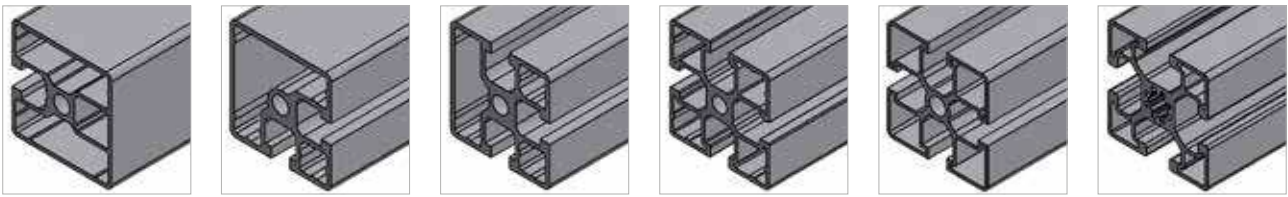
SA045032AL0308T



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA185032AL0108T	PROFILE 18,5x32 LIGHT	E	0,713	1,1	2,4	1,19	1,38
SA185045AL0208T	PROFILE 18,5x45 LIGHT	E	0,929	5,5	1,6	2,44	1,73
SA185045AL0308T	PROFILE 18,5x45 LIGHT	E	0,86	1,54	5,32	1,5	2,36
SA032032AL0208T	PROFILE 32x32 LIGHT	E	1,017	3,9	3,9	2,23	2,23
SA045225AL0210M	PROFILE 45x22,5 LIGHT	G	1,285	3,11	6,42	2,76	2,85
SA045032AL0308T	PROFILE 45x32 LIGHT	E	1,609	8,7	5,8	4,28	3,55



## 1.6 ALUMINUM PROFILE SERIES 45 LIGHT



45x45 1 slot

45x45 2 slots

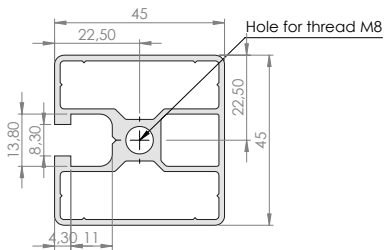
45x45 3 slots

45x45 4 slots

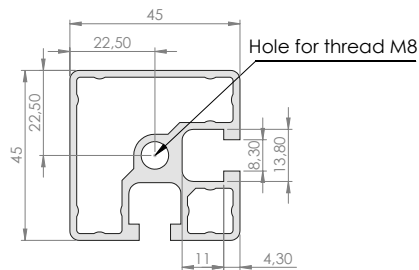
45x45 4 slots

45x45 4 slots

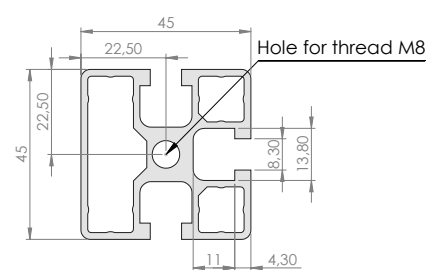
SA045045AL0108T



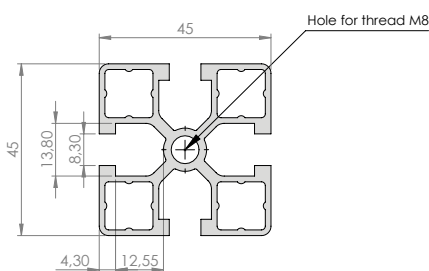
SA045045AL0208T



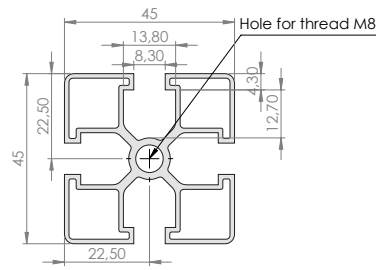
SA045045AL0308T



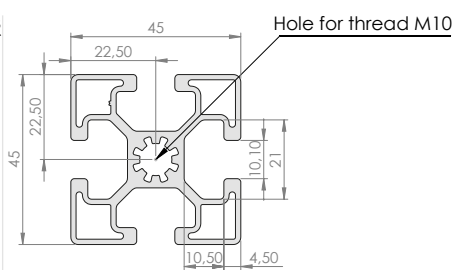
SA045045AL0408X



SA045045AX0408T

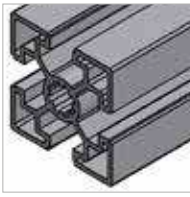


SA045045AL0410M

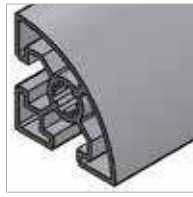


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA045045AL0108T	PROFILE 45x45 LIGHT	E	1,31	8,89	10,05	3,95	4,47
SA045045AL0208T	PROFILE 45x45 LIGHT	E	1,5	9,78	9,8	4,04	4,04
SA045045AL0308T	PROFILE 45x45 LIGHT	E	1,72	11,94	11,32	5,3	5,03
SA045045AL0408X	PROFILE 45x45 LIGHT	E	1,53	11,04	11,04	3,59	3,59
SA045045AX0408T	PROFILE 45X45 EXTRA LIGHT	E	1,25	8,09	8,09	4,90	4,90
SA045045AL0410M	PROFILE 40x80 LIGHT	G	1,544	10,85	10,85	4,82	4,82

## 1.6 ALUMINUM PROFILE SERIES 45 LIGHT



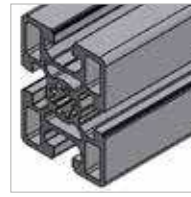
45x45 4 slots



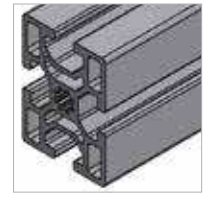
45x45 R 2 slots



45x45 R 2 slots

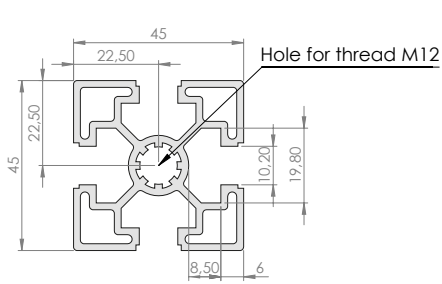


45x60 4 slots

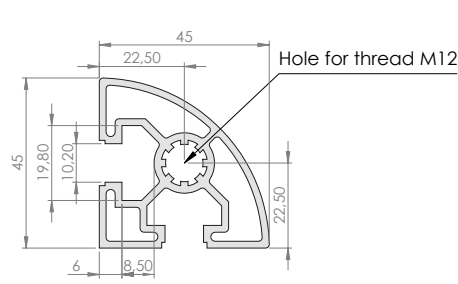


45x60 4 slots

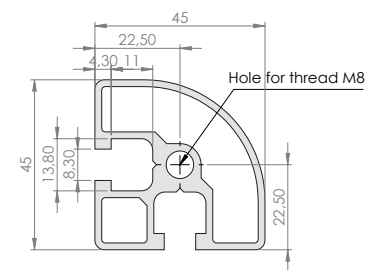
SA045045AL0410B



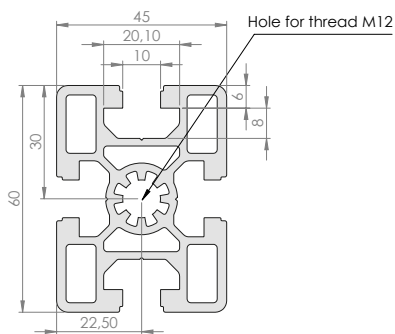
SA045045RL0210B



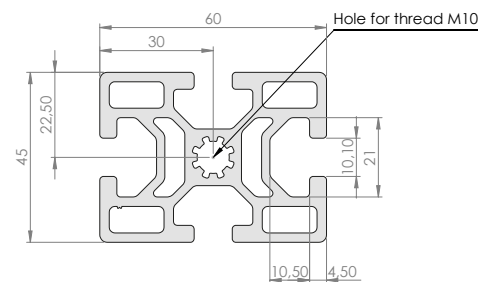
SA045045RL0208T



SA045060AL0410B

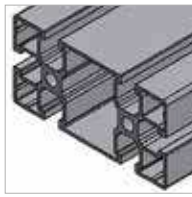


SA045060AL0410M

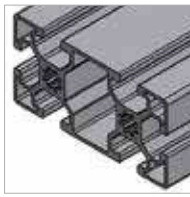


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA045045AL0410B	PROFILE 40x45 LIGHT	H	1,62	12,1	12,1	5,38	5,38
SA045045RL0210B	PROFILE 45x45 ROUND LIGHT	H	1,342	8,4	8,4	3,3	3,3
SA045045RL0208T	PROFILE 45x45 ROUND LIGHT	E	1,382	9,19	9,19	3,63	3,63
SA045060AL0410B	PROFILE 45x60 LIGHT	H	2,8	35,02	20,89	15,56	6,96
SA045060AL0410M	PROFILE 45x60 LIGHT	G	2,835	21,46	35,79	9,53	11,92

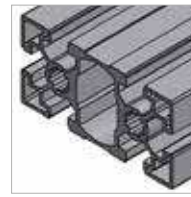
## 1.6 ALUMINUM PROFILE SERIES 45 LIGHT



45x90 6 slots

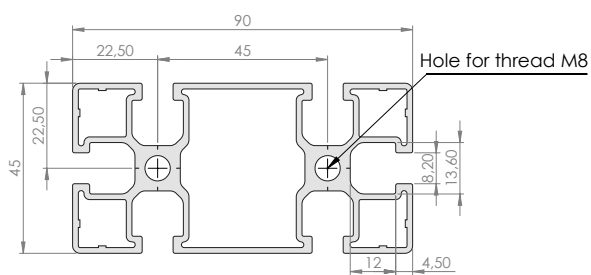


45x90 6 slots

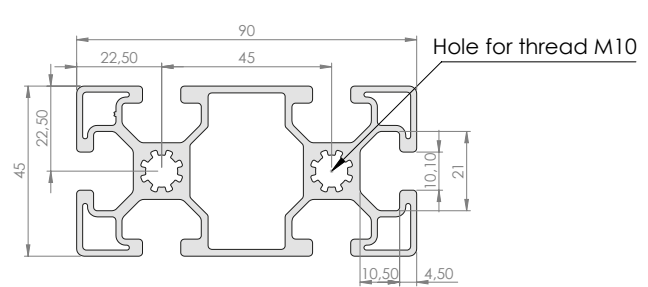


45x90 6 slots

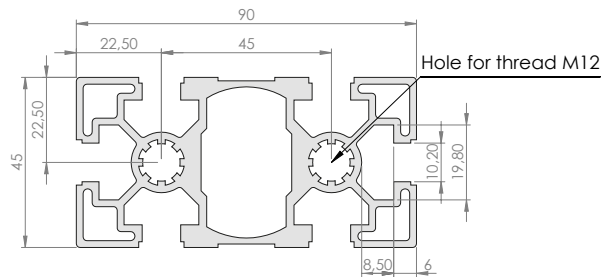
SA045090AL608T



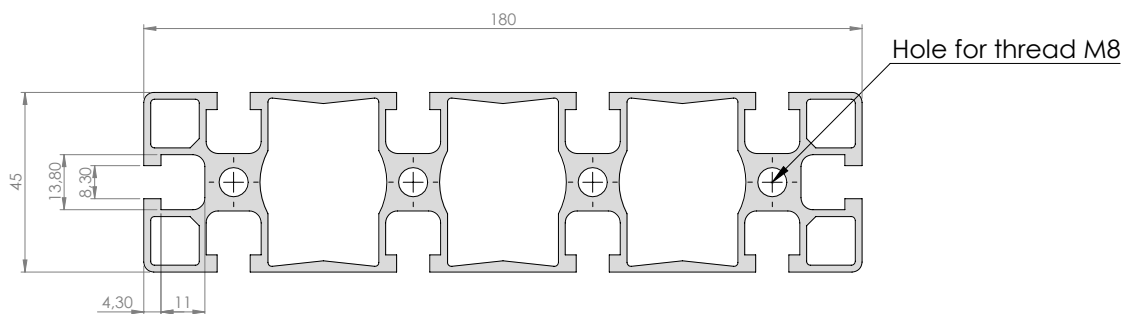
SA045090AL610M



SA045090AL610B



SA045180AL1008T

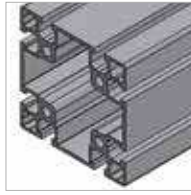


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA045090AL608T	PROFILE 40x90 LIGHT	E	2,42	18,128	75,006	8,05	16,668
SA045090AL610M	PROFILE 40x90 LIGHT	G	2,844	22,55	86,87	10,02	19,29
SA045090AL610B	PROFILE 40x90 LIGHT	H	3,221	25	87,7	11,11	19,49
SA045180AL1008T	PROFILE 40x180 LIGHT	E	5,96	48,33	689,89	21,48	76,65

## 1.6 ALUMINUM PROFILE SERIES 45 LIGHT



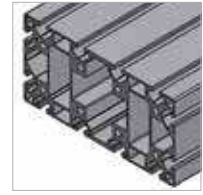
90x90 8 slots



90x90 8 slots

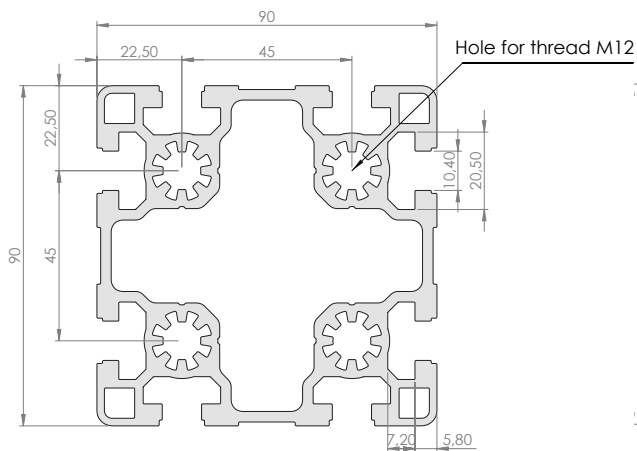


90x90 8 slots

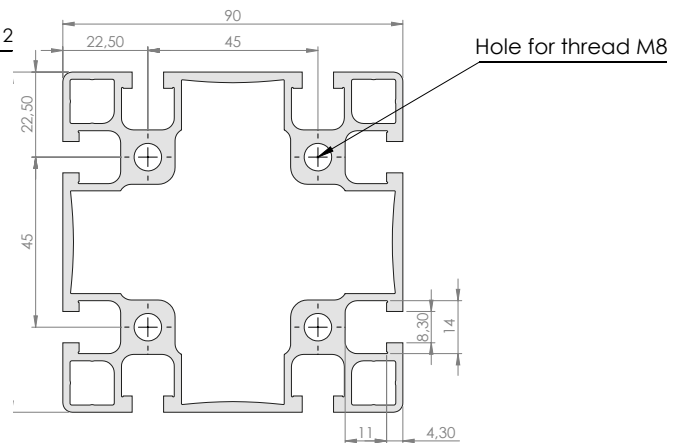


90x180 12 slots

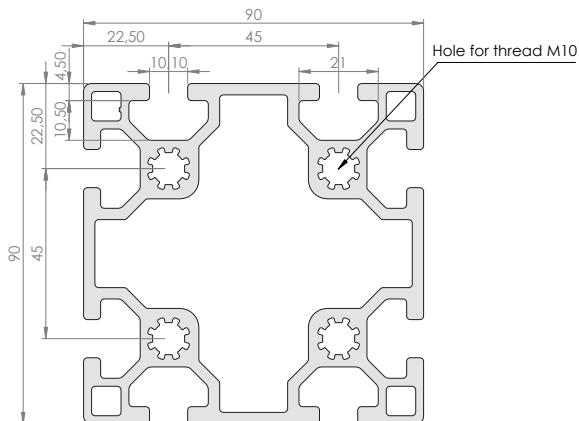
SA090090AL0810B



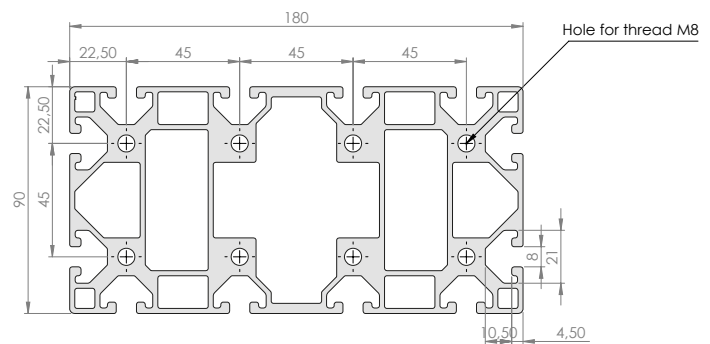
SA090090AL0808T



SA090090AL0810M



SA090180AL1208M

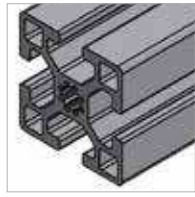


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA090090AL0810B	PROFILE 90x90 LIGHT	H	6,2	204,1	204,1	45,36	45,36
SA090090AL0808T	PROFILE 90x90 LIGHT	E	4,9	165,5	165,5	55,16	55,16
SA090090AL0810M	PROFILE 90x90 LIGHT	G	5,557	190,04	190,04	42,22	42,22
SA090180AL1208M	PROFILE 90x180 LIGHT	F	12,21	395,56	1458,94	87,894	162,09

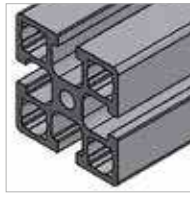
## 1.7 ALUMINUM PROFILE SERIES 45 HEAVY



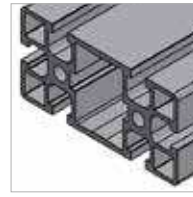
18,5x180 9 slots



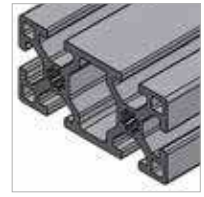
45x45 4 slots



45x45 4 slots

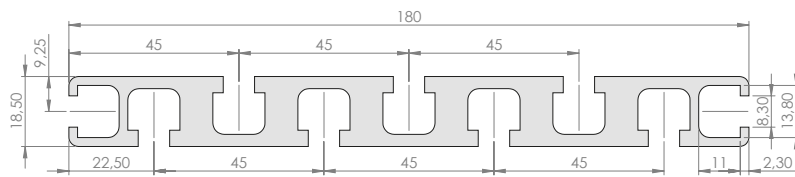


45x90 6 slots



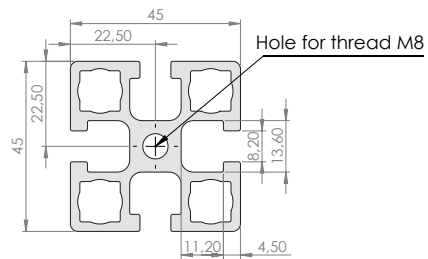
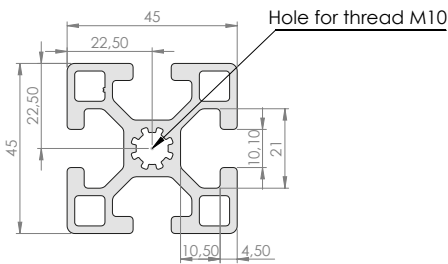
45x90 6 slots

SA185180AP0908T



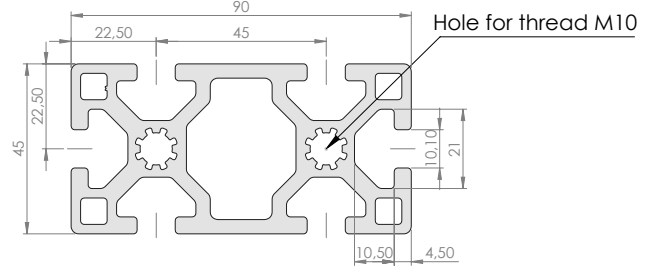
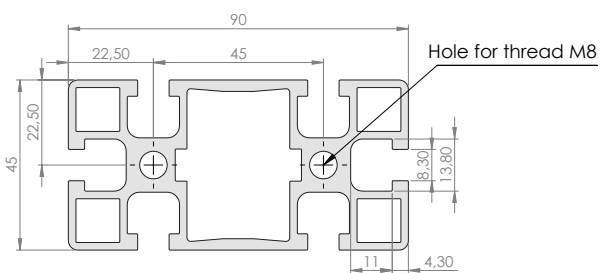
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SA045045AP408T



SA045090AP0608T

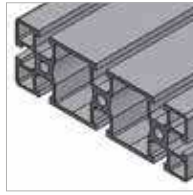
SA045090AP0610M



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA185180AP0908T	PROFILE 18,5x180 HEAVY	E	4,604	6,65	401	7,18	44,5
SA045045AP0410M	PROFILE 45x45 HEAVY	G	2,02	14,9	14,9	6,62	6,62
SA045045AP408T	PROFILE 45x45 HEAVY	E	2,052	14,59	14,59	6,48	6,48
SA045090AP0608T	PROFILE 45x90 HEAVY	E	3,231	23	90	11,22	21,96
SA045090AP0610M	PROFILE 45x90 HEAVY	G	4,093	33,83	120,79	14,58	26,83



## 1.7 ALUMINUM PROFILE SERIES 45 HEAVY

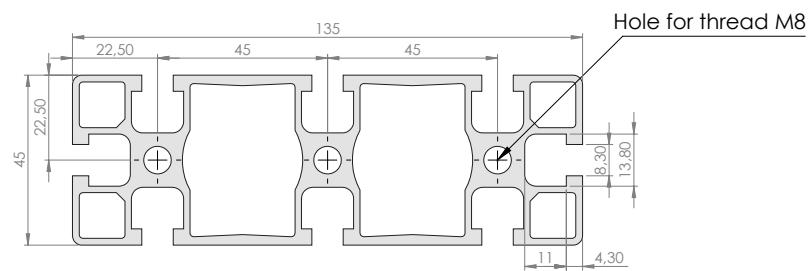


45x135 8 slots

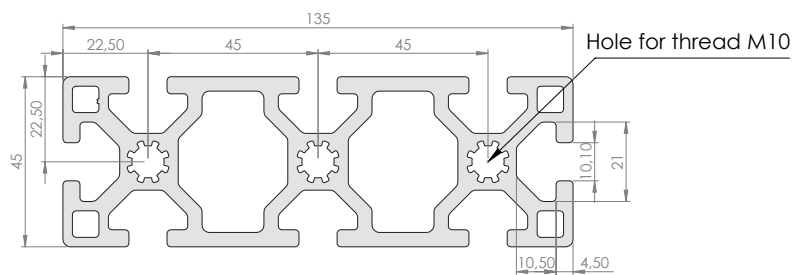


45x135 8 slots

SA045135AP0808T

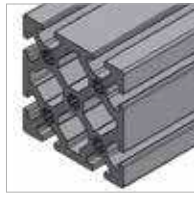


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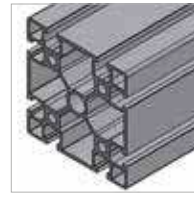


CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA045135AP0808T	PROFILE 18,5x180 HEAVY	E	4,36	36,97	304,13	16,43	45,06
SA045135AP0810M	PROFILE 45x45 HEAVY	G	5,86	48,6	378,05	21,6	55,99

### 1.7 ALUMINUM PROFILE SERIES 45 HEAVY



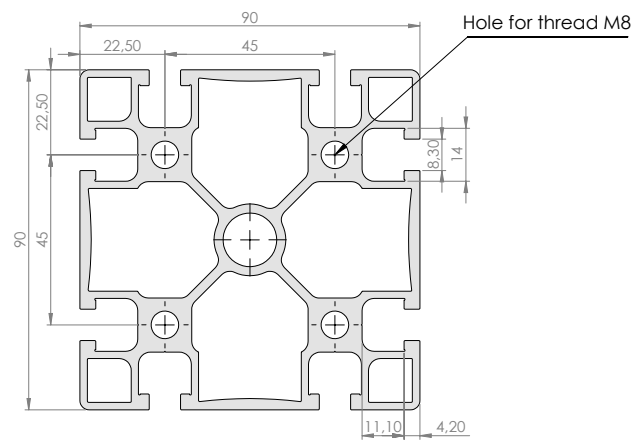
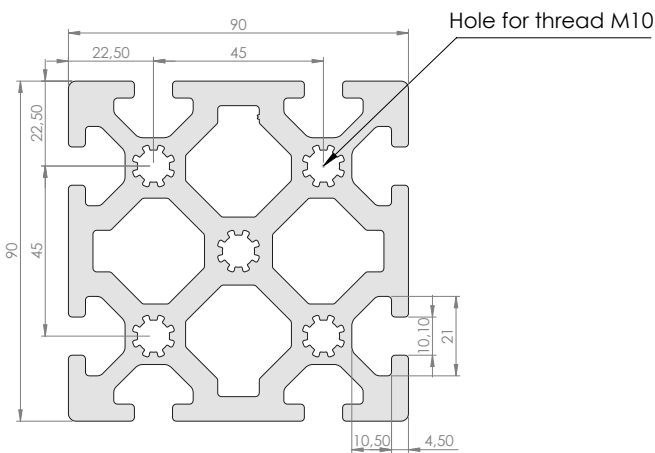
90x90 8 slots



90x90 8 slots

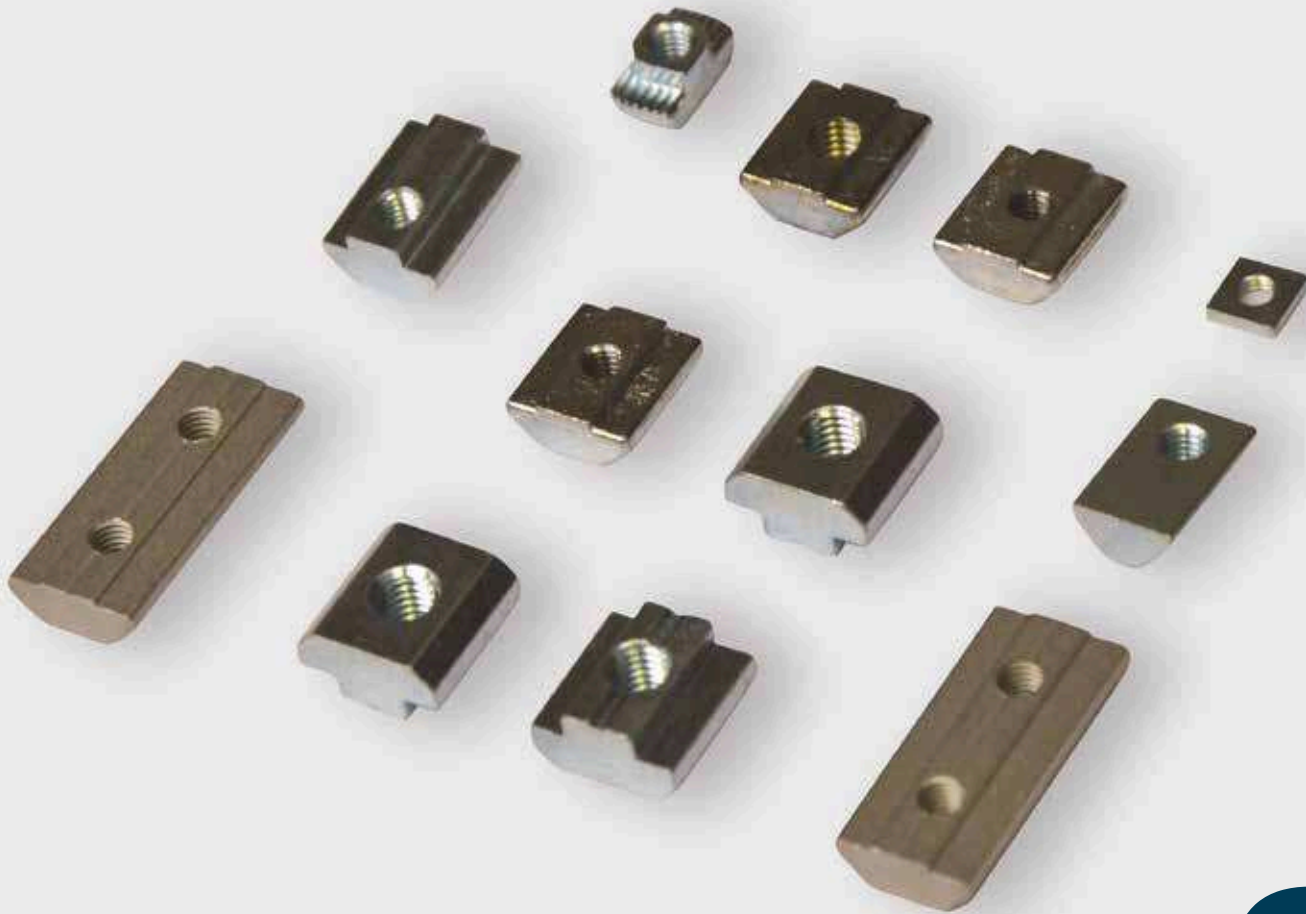
SA090090AP0810M

SA090090AP0808T



CODE	PROFILE	SLOT	kg/m	Jx (cm <sup>4</sup> )	Jy (cm <sup>4</sup> )	Wx (cm <sup>3</sup> )	Wy (cm <sup>3</sup> )
SA090090AP0810M	PROFILE 90x90 HEAVY	G	9,717	284,26	284,26	63,16	63,16
SA090090AP0808T	PROFILE 90x90 HEAVY	E	5,684	170,58	170,58	37,9	37,9

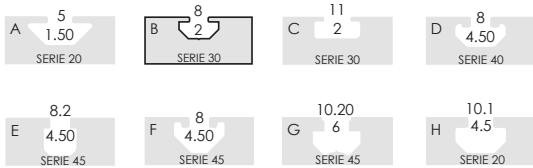
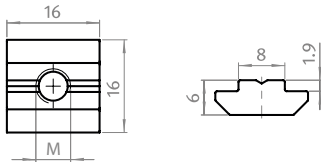
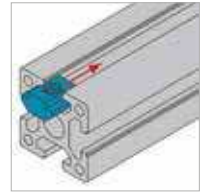




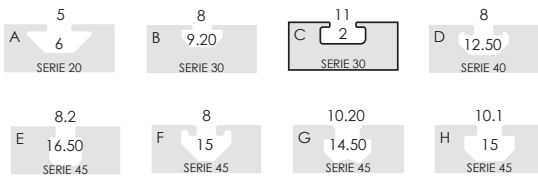
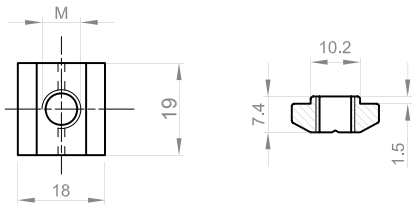
FIXING ACCESSORIES

2

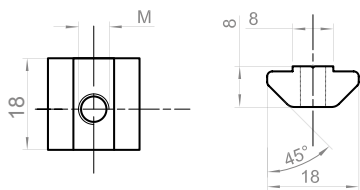
## 2.1 NUTS



DESCRIPTION	M	MATERIAL	CODE
NUTS	M4	ZINC PLATED STEEL	SA101001
	M5	ZINC PLATED STEEL	SA101002
	M6	ZINC PLATED STEEL	SA101003
	M8	ZINC PLATED STEEL	SA101004

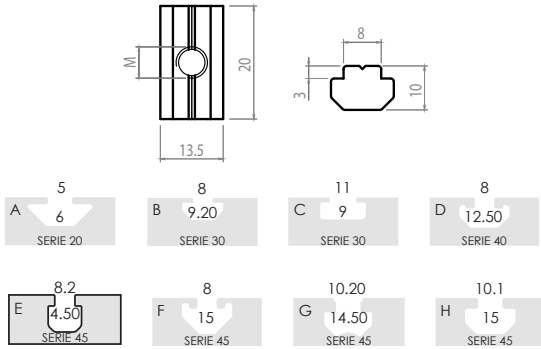
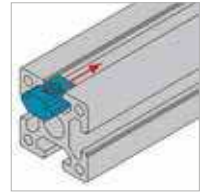


DESCRIPTION	M	MATERIAL	CODE
NUTS	M6	ZINC PLATED STEEL	SA101005
	M8	ZINC PLATED STEEL	SA101006

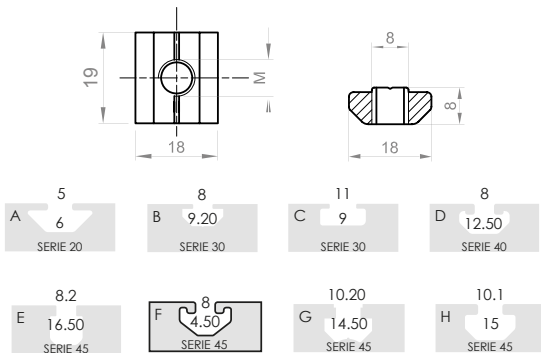


DESCRIPTION	M	MATERIAL	CODE
NUTS	M4	ENA W - 6060	SA101007
	M5	EN AW - 6060	SA101008
	M6	ZAMA	SA101009
	M8	ZAMA	SA101010

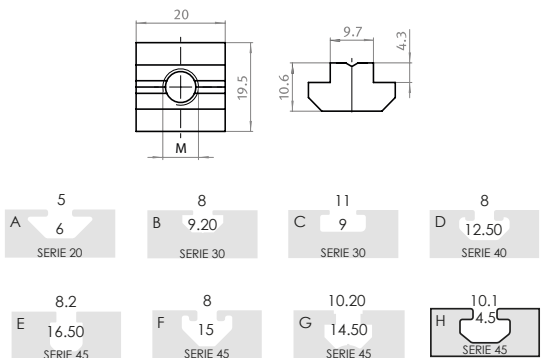
## 2.1 NUTS



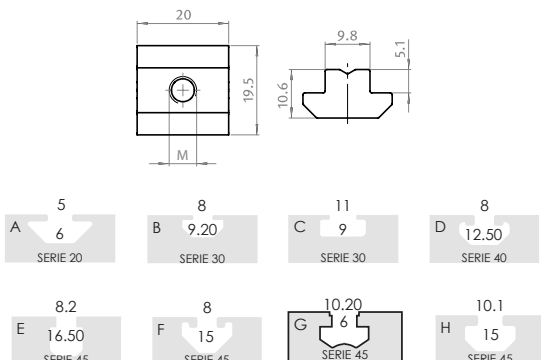
DESCRIPTION	M	MATERIAL	CODE
NUTS	M4	ZINC PLATED STEEL	SA101011
	M5	ZINC PLATED STEEL	SA101012
	M6	ZINC PLATED STEEL	SA101013
	M8	ZINC PLATED STEEL	SA101014



DESCRIPTION	M	MATERIAL	CODE
NUTS	M6	ZAMA	SA101015
	M8	ZAMA	SA101016



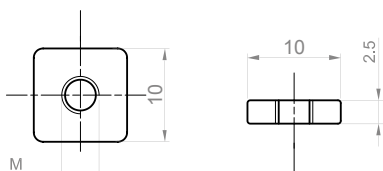
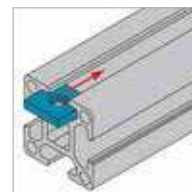
DESCRIPTION	M	MATERIAL	CODE
NUTS	M5	ZINC PLATED STEEL	SA101017
	M6	ZINC PLATED STEEL	SA101018
	M8	ZINC PLATED STEEL	SA101019
	M10	ZAMA	SA101020



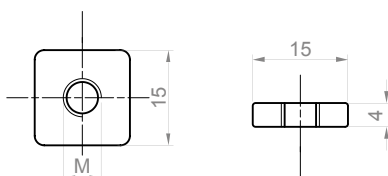
DESCRIPTION	M	MATERIAL	CODE
NUTS	M4	ZINC PLATED STEEL	SA001021
	M5	ZINC PLATED STEEL	SA001022
	M6	ZINC PLATED STEEL	SA001023
	M8	ZINC PLATED STEEL	SA001024
	M10	ZAMA	SA001020



## 2.2 SQUARE NUT

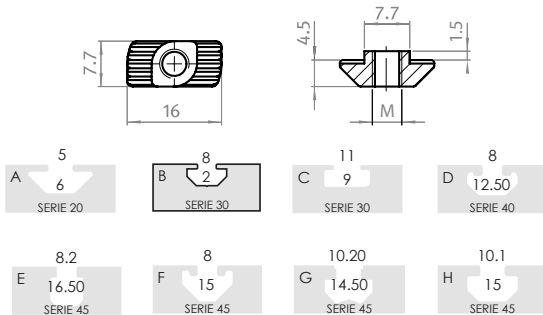
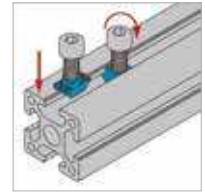



DESCRIPTION	M	MATERIAL	CODE
SQUARE NUT	M4	ZINC PLATED STEEL	SA107001
	M5	ZINC PLATED STEEL	SA107002

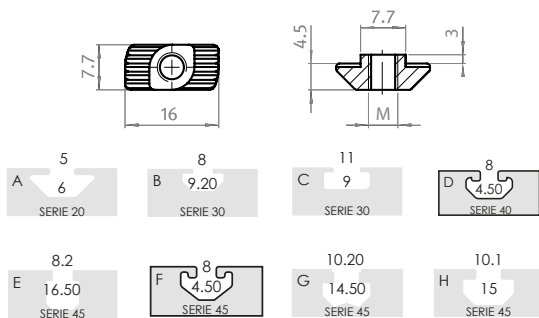



DESCRIPTION	M	MATERIAL	CODE
SQUARE NUT	M4	ZINC PLATED STEEL	SA107003
	M5	ZINC PLATED STEEL	SA107004
	M6	ZINC PLATED STEEL	SA107005
	M8	ZINC PLATED STEEL	SA107006

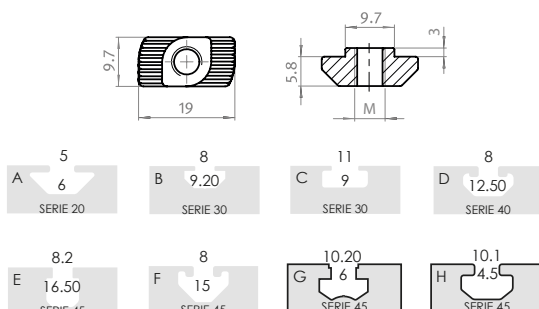
## 2.3 HAMMER-HEAD NUT



DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD NUT	M4	ZINC PLATED STEEL	SA106001
	M5	ZINC PLATED STEEL	SA106002
	M6	ZINC PLATED STEEL	SA106003

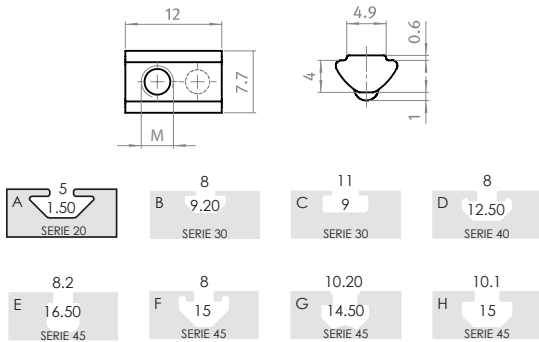
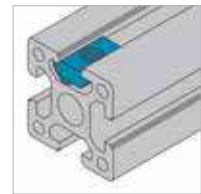


DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD NUT	M4	ZINC PLATED STEEL	SA106004
	M5	ZINC PLATED STEEL	SA106005
	M6	ZINC PLATED STEEL	SA106006

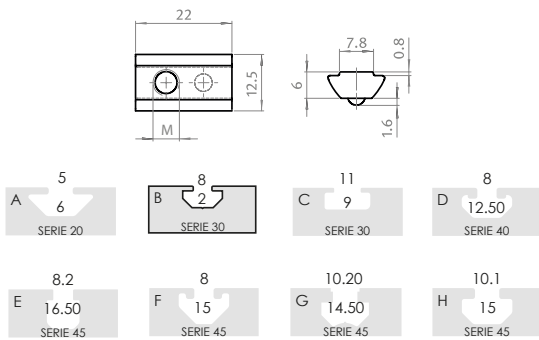


DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD NUT	M4	ZINC PLATED STEEL	SA106007
	M5	ZINC PLATED STEEL	SA106008
	M6	ZINC PLATED STEEL	SA106009
	M8	ZINC PLATED STEEL	SA106010

## 2.4 NUTS APPLICABLE AFTER MOUNTING

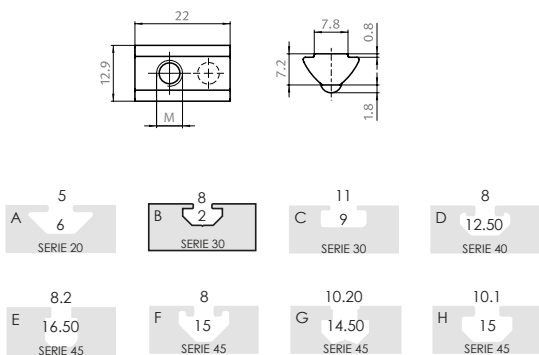


DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M3	ZINC PLATED STEEL	SA103001
	M4	ZINC PLATED STEEL	SA103002
	M5	ZINC PLATED STEEL	SA103003



DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M4	ZINC PLATED STEEL	SA103004
	M5	ZINC PLATED STEEL	SA103005
	M6	ZINC PLATED STEEL	SA103006
	M8	ZINC PLATED STEEL	SA103007

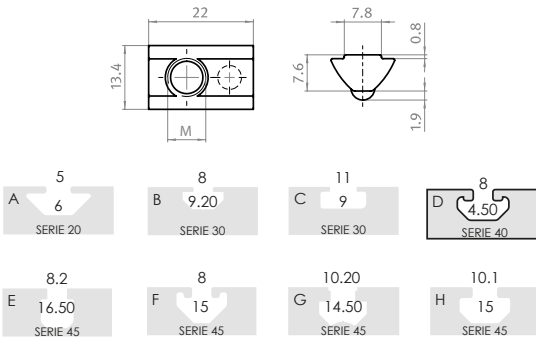
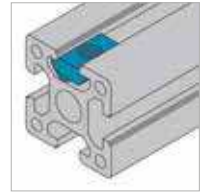
\*For profile Series 30 B



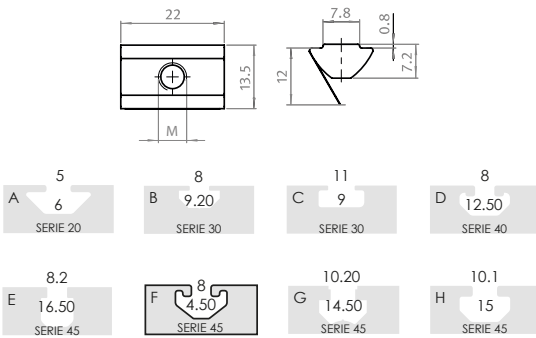
DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M4	ZINC PLATED STEEL	SA103008
	M5	ZINC PLATED STEEL	SA103009
	M6	ZINC PLATED STEEL	SA103010
	M8	ZINC PLATED STEEL	SA103011

\*For profile Series 30 M

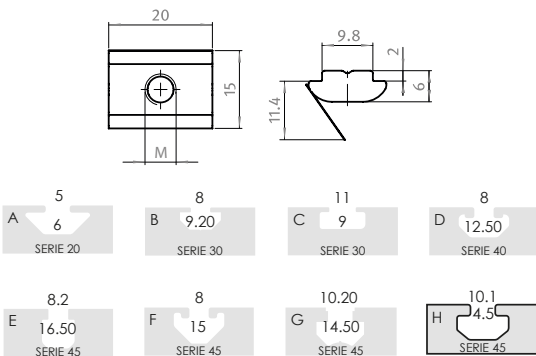
## 2.4 NUTS APPLICABLE AFTER MOUNTING



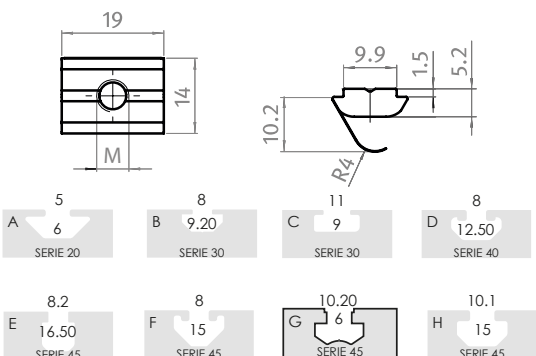
DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M4	ZINC PLATED STEEL	SA103012
	M5	ZINC PLATED STEEL	SA103013
	M6	ZINC PLATED STEEL	SA103014
	M8	ZINC PLATED STEEL	SA103015



DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M4	ZINC PLATED STEEL	SA103016
	M5	ZINC PLATED STEEL	SA103017
	M6	ZINC PLATED STEEL	SA103018
	M8	ZINC PLATED STEEL	SA103019

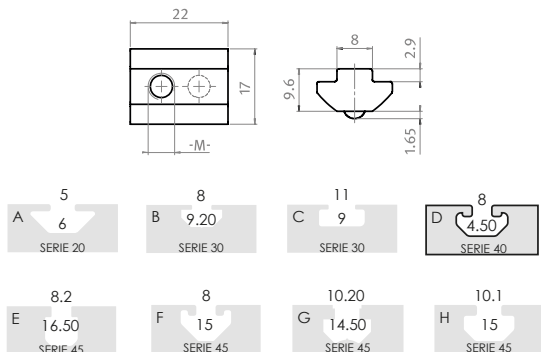


DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M4	ZINC PLATED STEEL	SA103020
	M5	ZINC PLATED STEEL	SA103021
	M6	ZINC PLATED STEEL	SA103022
	M8	ZINC PLATED STEEL	SA103023

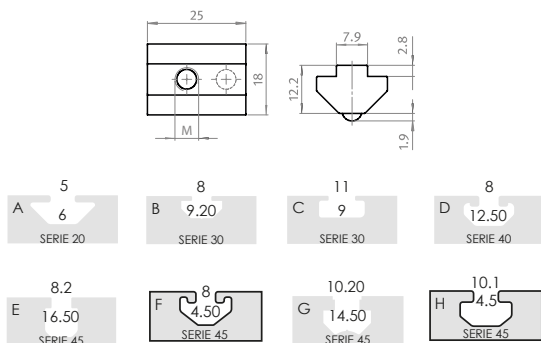


DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE AFTER MOUNTING	M4	ZINC PLATED STEEL	SA103024
	M5	ZINC PLATED STEEL	SA103025
	M6	ZINC PLATED STEEL	SA103026
	M8	ZINC PLATED STEEL	SA103027

## 2.5 NUTS APPLICABLE BEFORE MOUNTING

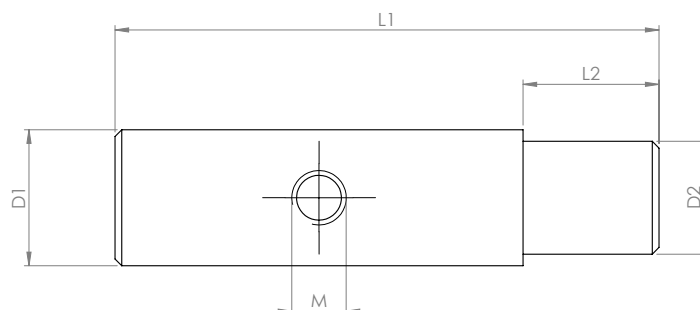


DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE BEFORE MOUNTING	M4	ZINC PLATED STEEL	SA102001
	M5	ZINC PLATED STEEL	SA102002
	M6	ZINC PLATED STEEL	SA102003
	M8	ZINC PLATED STEEL	SA102004



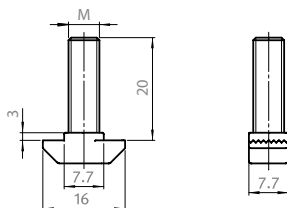
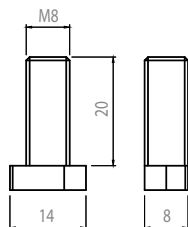
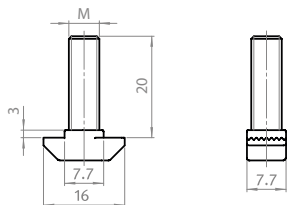
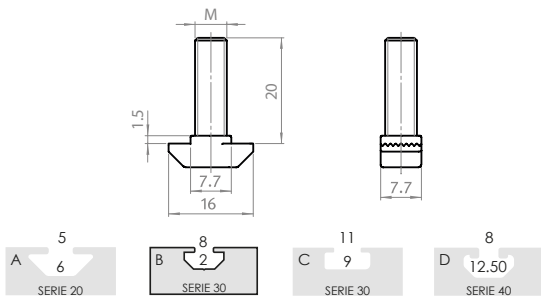
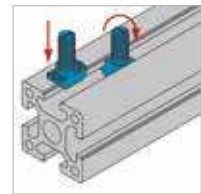
DESCRIPTION	M	MATERIAL	CODE
NUTS APPLICABLE BEFORE MOUNTING	M5	ZINC PLATED STEEL	SA102005
	M6	ZINC PLATED STEEL	SA102006
	M8	ZINC PLATED STEEL	SA102007

## 2.6 ANTI-SWIVELING



DESCRIPTION	CAVA	MATERIAL	D1	D2	L1	L2	M	CODE
ANTI - SWIVELING	CAVA 8	ZINC PLATED STEEL	10	8,3	40	10	M4	SA110001
	CAVA 10	ZINC PLATED STEEL	11	10,3	40	13	M4	SA110002

## 2.7 HAMMER-HEAD SCREW



DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD SCREW	M6	ZINC PLATED STEEL	SA108001
	M8	ZINC PLATED STEEL	SA108002

\*Available length of the screw 25/30 mm

DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD SCREW	M6	ZINC PLATED STEEL	SA108003
	M8	ZINC PLATED STEEL	SA108004

\*Available length of the screw 25/30 mm

DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD SCREW	M8	ZINC PLATED STEEL	SA108005

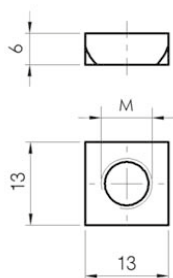
\*Available length of the screw 25/30 mm

DESCRIPTION	M	MATERIAL	CODE
HAMMER-HEAD SCREW	M6	ZINC PLATED STEEL	SA108006
	M8	ZINC PLATED STEEL	SA108007

\*Available length of the screw 25/30 mm

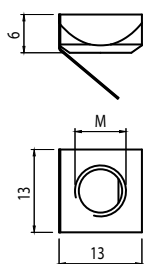


## 2.8 SQUARE NUT



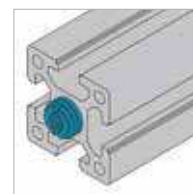
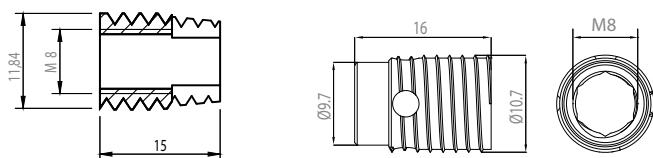
DESCRIPTION	M	MATERIAL	CODE
SQUARE NUT	M4	ZINC PLATED STEEL	SA104001
	M5	ZINC PLATED STEEL	SA104002
	M6	ZINC PLATED STEEL	SA104003
	M8	ZINC PLATED STEEL	SA104004

## 2.9 SQUARE NUTS WITH SPRING



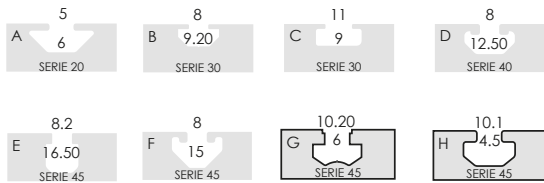
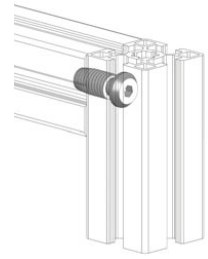
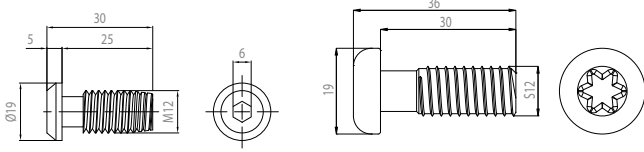
DESCRIPTION	M	MATERIAL	CODE
SQUARE NUTS WITH SPRING	M4	ZINC PLATED STEEL	SA105001
	M5	ZINC PLATED STEEL	SA105002
	M6	ZINC PLATED STEEL	SA105003
	M8	ZINC PLATED STEEL	SA105004

## 2.10 REDUCTION PIN



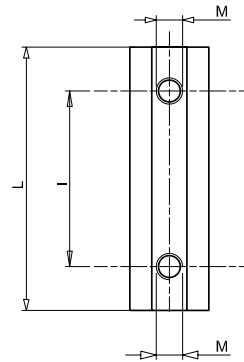
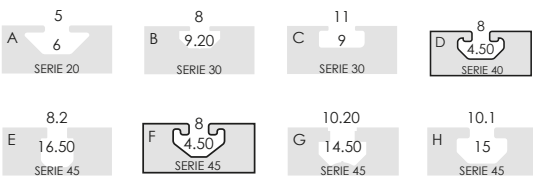
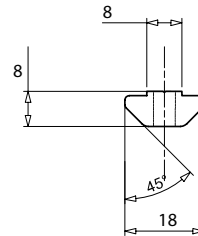
DESCRIPTION	D	MATERIAL	CODE
SPECIAL CLAMPING FOR HOLE AND SCREW	CAVA 10 M12/M8	ZINC PLATED STEEL	SA109001
	CAVA 10 M8	ZINC PLATED STEEL	SA109002

## 2.11 SPECIAL SCREW



DESCRIPTION	D	MATERIAL	CODE
SPECIAL CLAMPING FOR HOLE AND SCREW	S12x25	ZINC PLATED STEEL	SA109003
	M12x30	ZINC PLATED STEEL	SA109004

## 2.12 NUTS DOUBLE HOLE



DESCRIPTION	MATERIAL	l (mm)	M	L (mm)	CODE
NUTS 38 mm - 2 HOLE M6	ANODIDED ALUMINUM	20	M6	38	SA111001
NUTS 40 mm - 2 HOLE M6	ANODIDED ALUMINUM	20	M6	40	SA111002
NUTS 50 mm - 2 HOLE M6	ANODIDED ALUMINUM	30	M6	50	SA111003
NUTS 60 mm - 2 HOLE M6	ANODIDED ALUMINUM	40	M6	60	SA111004
NUTS 40 mm - 2 HOLE M8	ANODIDED ALUMINUM	23	M8	40	SA111005
NUTS 50 mm - 2 HOLE M8	ANODIDED ALUMINUM	30	M8	50	SA111006
NUTS 60 mm - 2 HOLE M8	ANODIDED ALUMINUM	40	M8	60	SA111007
NUTS 65 mm - 2 HOLE M8	ANODIDED ALUMINUM	45	M8	65	SA111008

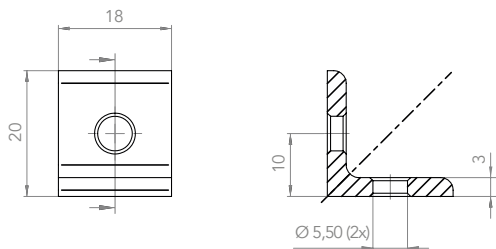




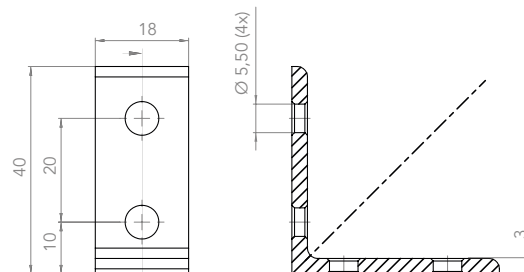
3

JOINT ACCESSORIES

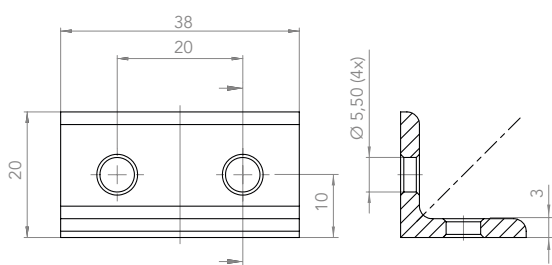
### 3.1 ANGLE BRACKETS



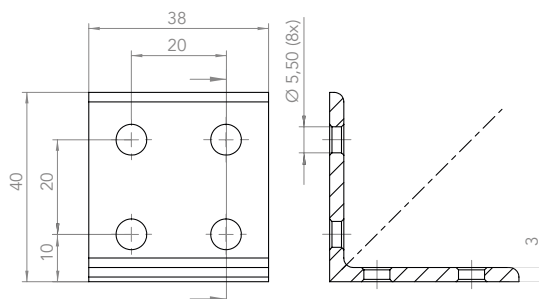
SA201001



SA201002



SA201003

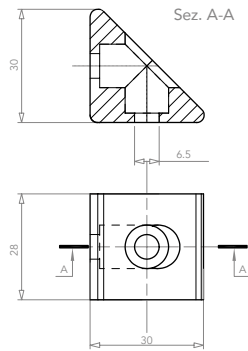


SA201004

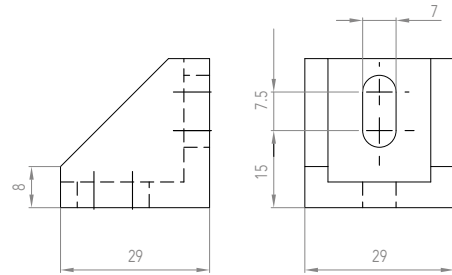


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 20X20	ANNODIZED ALUMINUM	5	SA201001
ANGLE BRACKETS 20X40	ANNODIZED ALUMINUM	11	SA201002
ANGLE BRACKETS 40X20	ANNODIZED ALUMINUM	12	SA201003
ANGLE BRACKETS 40X40	ANNODIZED ALUMINUM	22	SA201004

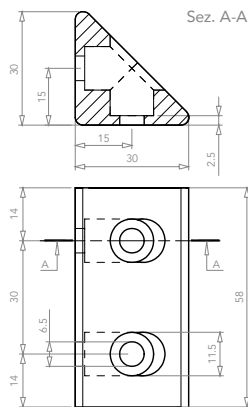
### 3.1 ANGLE BRACKETS



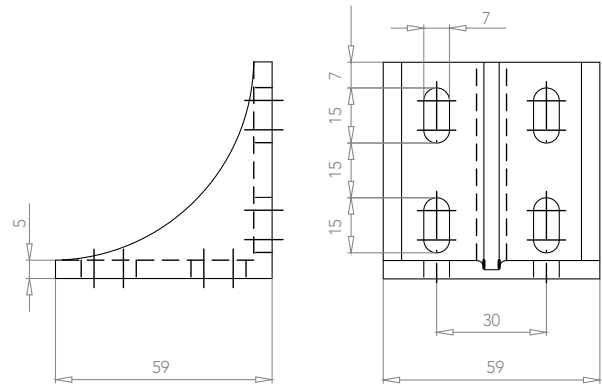
SA201005



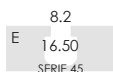
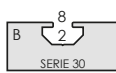
SA201006



SA201007

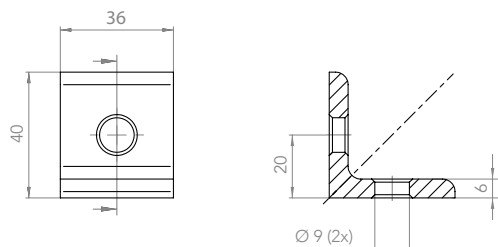


SA201008

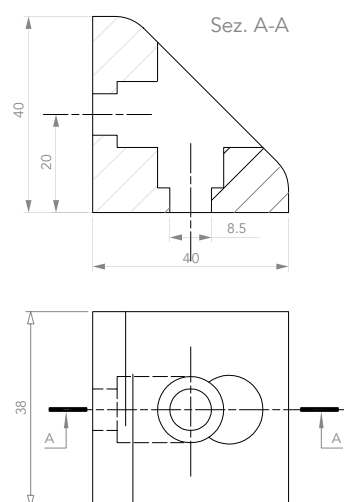


DESCRIPTION	MATERIAL	WEIGHT (g)	C ODE
ANGLE BRACKETS 30X30	TUMBLLED ALUMINUM	40	SA201005
ANGLE BRACKETS 30X30	SANDBLASTED ALUMINUM	29	SA201006
ANGLE BRACKETS 30X60	TUMBLLED ALUMINUM	80	SA201007
ANGLE BRACKETS 60X60	SANDBLASTED ALUMINUM	93	SA201008

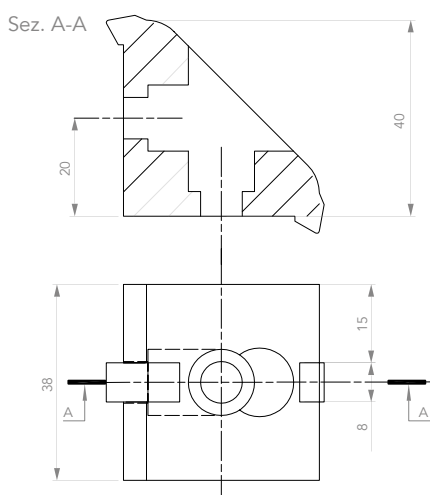
### 3.1 ANGLE BRACKETS



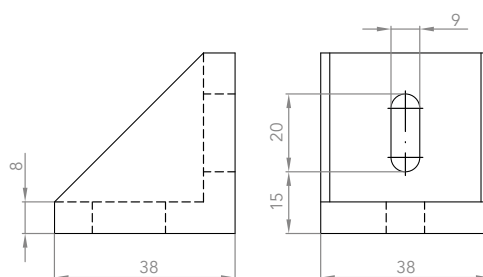
SA201009



SA201010



SA201011



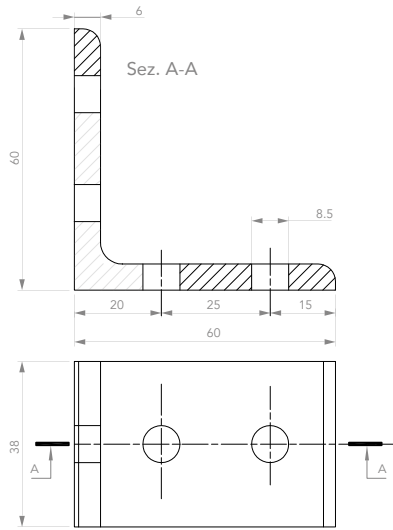
SA201012



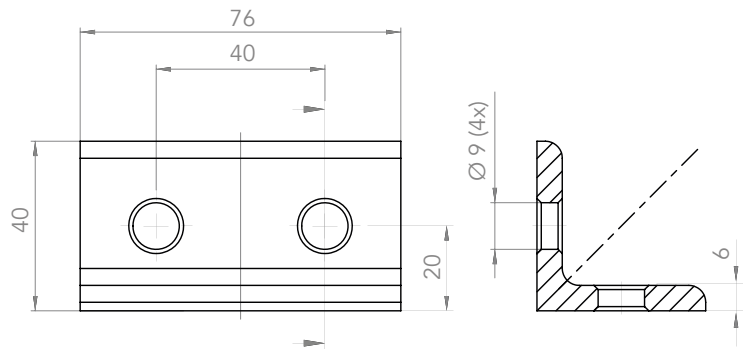
DESCRIPTION	MATERIAL	WEIGHT (g)	C CODE
ANGLE BRACKETS 40X40	ANODIDED ALUMINUM	42	SA201009
ANGLE BRACKETS 40X40	SANDBLASTED ALUMINUM	100	SA201010
ANGLE BRACKETS 40X40	TUMBLED ALUMINUM	110	SA201011
ANGLE BRACKETS 40X40	TUMBLED ALUMINUM	50	SA201012



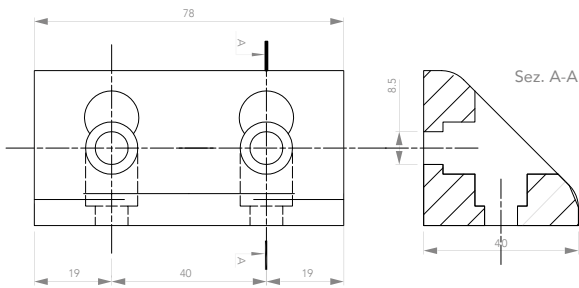
### 3.1 ANGLE BRACKETS



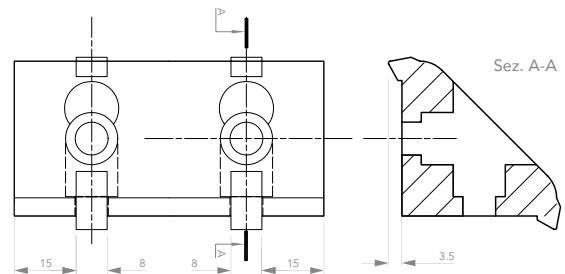
SA201013



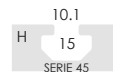
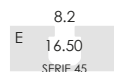
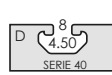
SA201014



SA201015

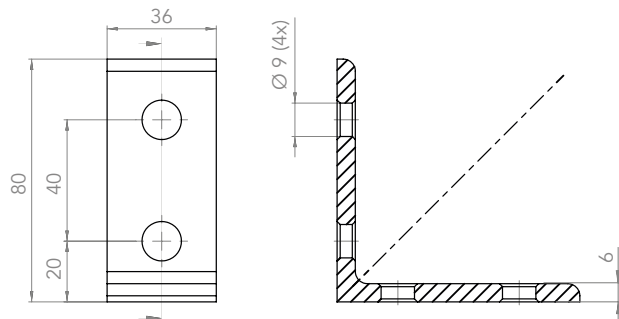


SA201016

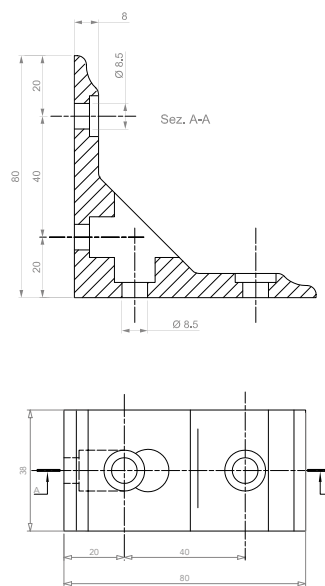


DESCRIPTION	MATERIAL	WEIGHT (	CODE
ANGLE BRACKETS 40X60	SANDBLASTED ALUMINUM	66	SA201013
ANGLE BRACKETS 80X40	ANODIDED ALUMINUM	86	SA201014
ANGLE BRACKETS 80X40	TUMBLED ALUMINUM	200	SA201015
ANGLE BRACKETS 80X40	TUMBLED ALUMINUM	220	SA201016

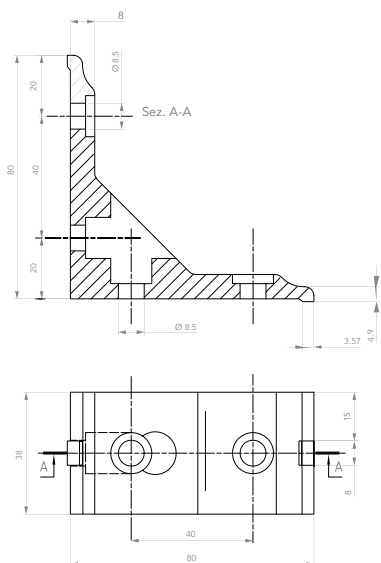
### 3.1 ANGLE BRACKETS



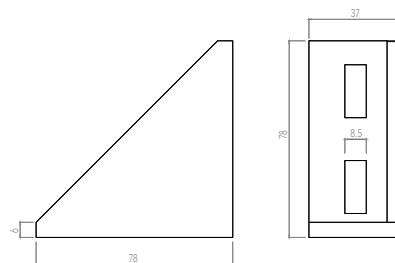
SA201017



SA201018



SA201019

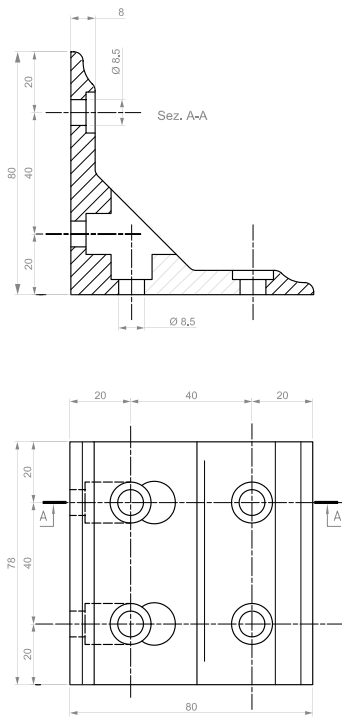


SA201020

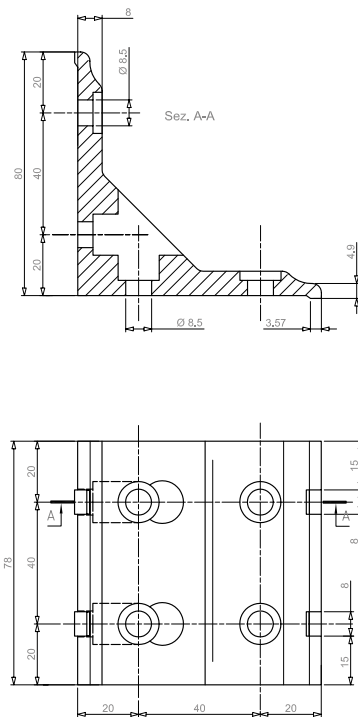


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 40X80	TUMBLLED ALUMINUM	85	SA201017
ANGLE BRACKETS 40X80	ANODIDED ALUMINUM	150	SA201018
ANGLE BRACKETS 40X80	TUMBLLED ALUMINUM	160	SA201019
ANGLE BRACKETS 40X80	SANDBLASTED ALUMINUM	115	SA201020

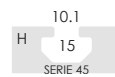
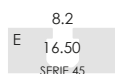
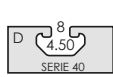
### 3.1 ANGLE BRACKETS



SA201021

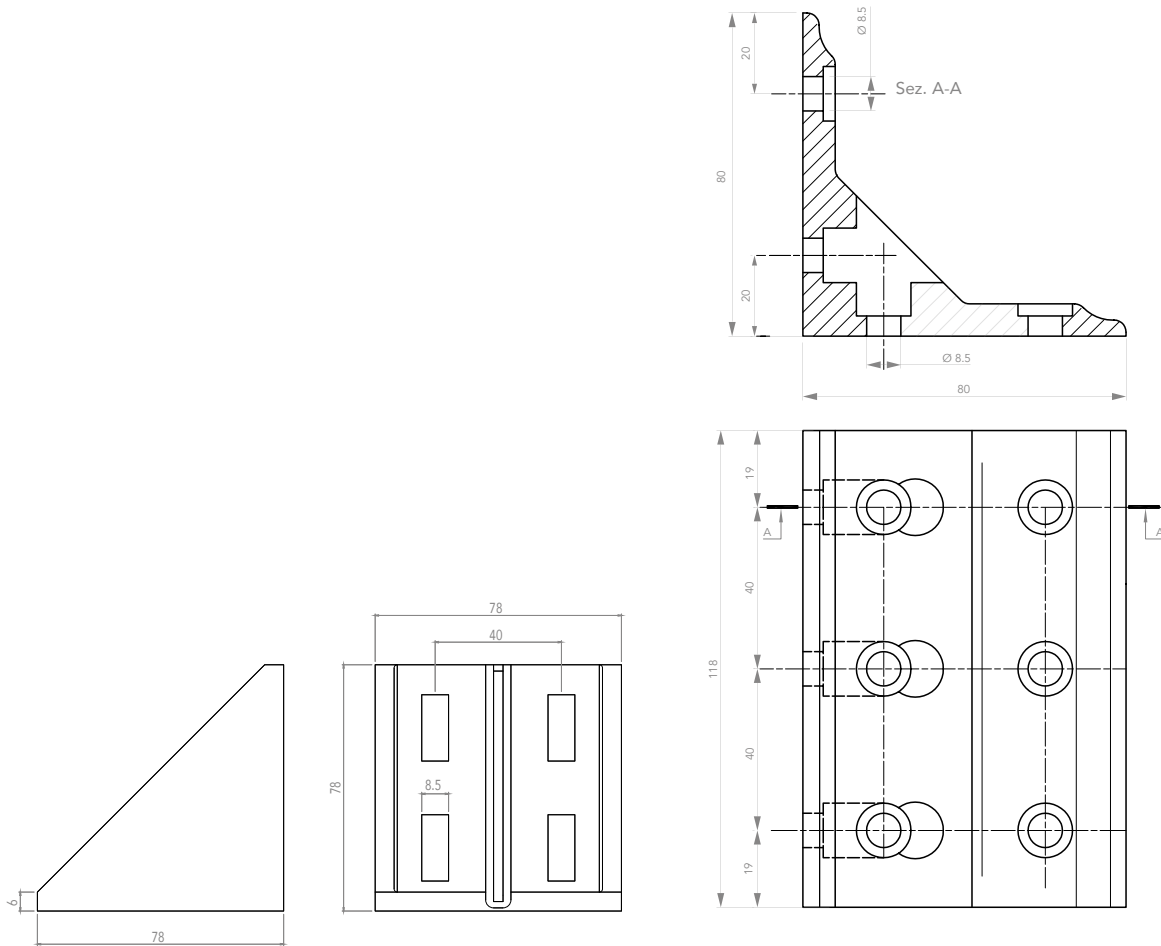


SA201022



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 80X80	TUMBLED ALUMINUM	300	SA201021
ANGLE BRACKETS 80X80	TUMBLED ALUMINUM	320	SA201022

### 3.1 ANGLE BRACKETS



SA201023

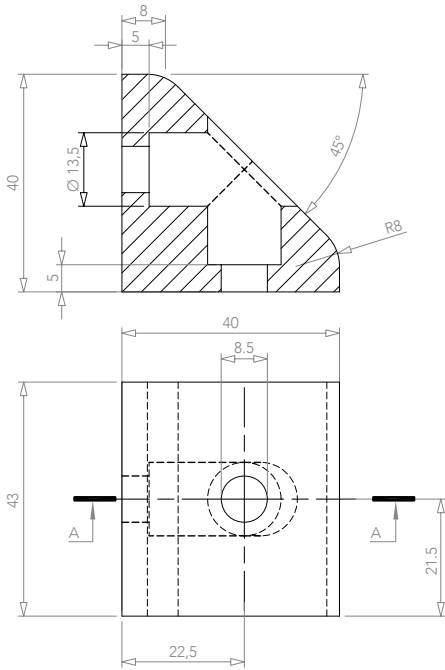
SA201024



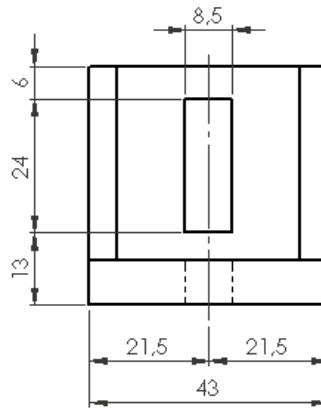
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 80X80	SANDBLASTED ALUMINUM	234	SA201023
ANGLE BRACKETS 80X80	TUMBLED ALUMINUM	450	SA201024

### 3.1 ANGLE BRACKETS

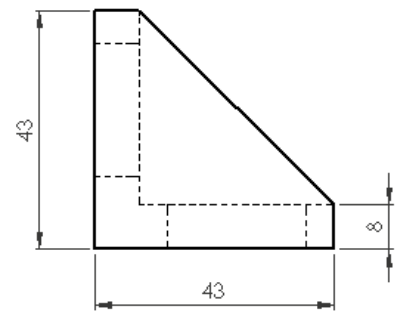
Sez. A-A



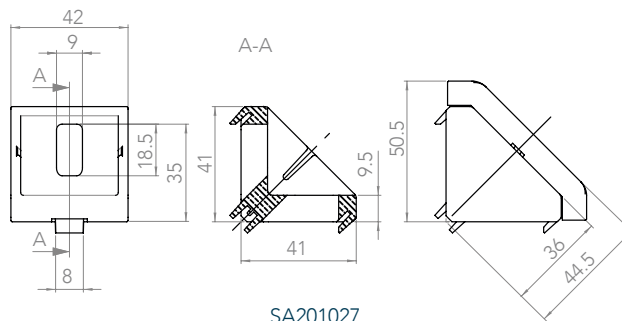
SA201025



SA201026



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 45X45	TUMBLLED ALUMINUM	110	SA201025
ANGLE BRACKETS 45X45	SANDBLASTED ALUMINUM	60	SA201026



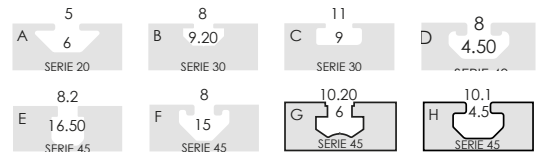
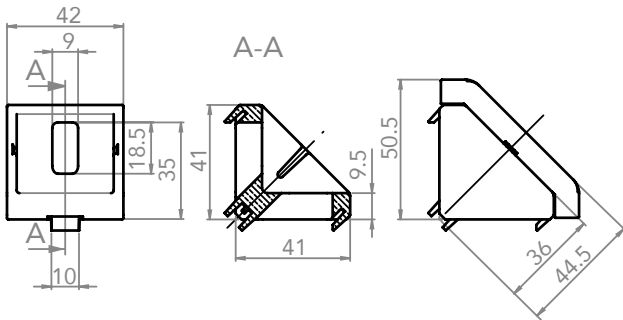
SA201027



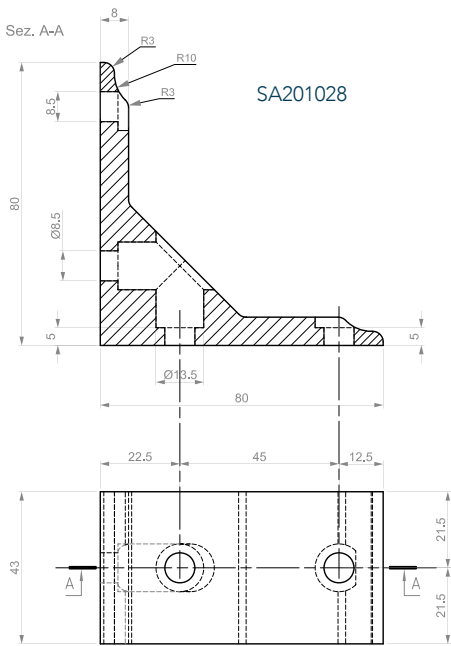
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 45X45	CASTING ALUMINUM	52	SA201027

### 3.1 ANGLE BRACKETS

SA201033

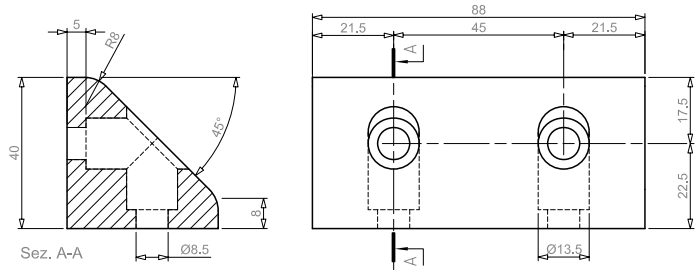


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 90X45	TUMBLED ALUMINUM	52	SA201033



SA201028

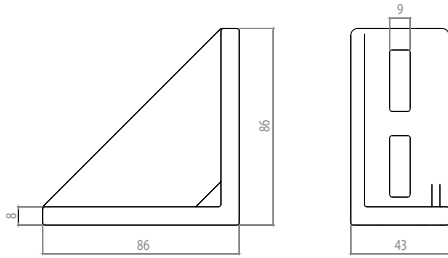
SA201029



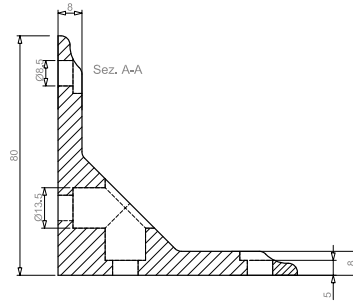
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 45X90	TUMBLED ALUMINUM	170	SA201028
ANGLE BRACKETS 90X45	TUMBLED ALUMINUM	220	SA201029

### 3.1 ANGLE BRACKETS

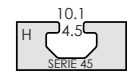
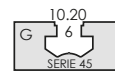
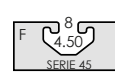
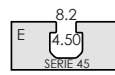
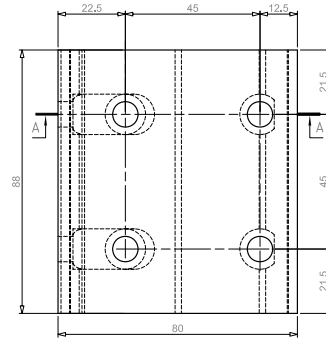
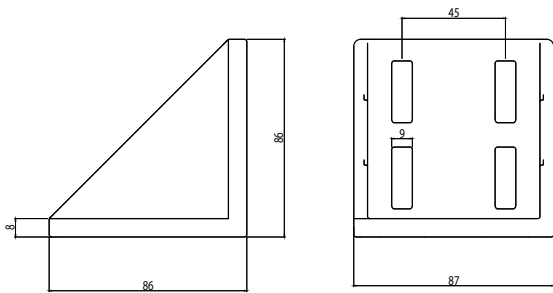
SA201030



SA201031

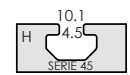
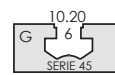
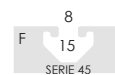
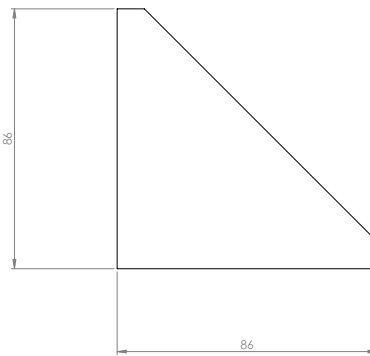
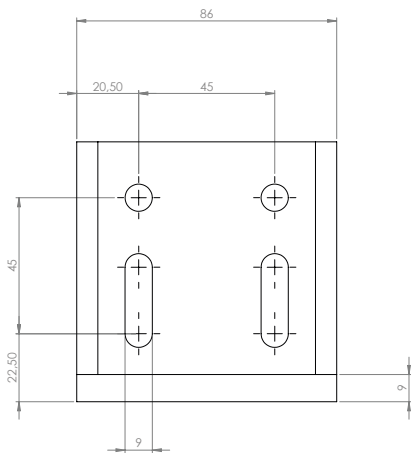


SA201032



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 45X90	SANDBLASTED ALUMINUM	162	SA201030
ANGLE BRACKETS 90X90	SANDBLASTED ALUMINUM	350	SA201031
ANGLE BRACKETS 90X90	TUMBLED ALUMINUM	360	SA201032

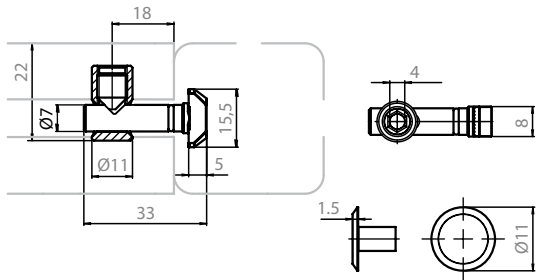
SA201034



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGLE BRACKETS 90X90	TUMBLED ALUMINUM	421	SA201034

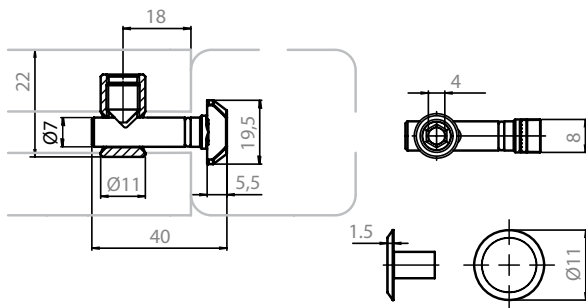


### 3.2 CENTRAL CONNECTOR



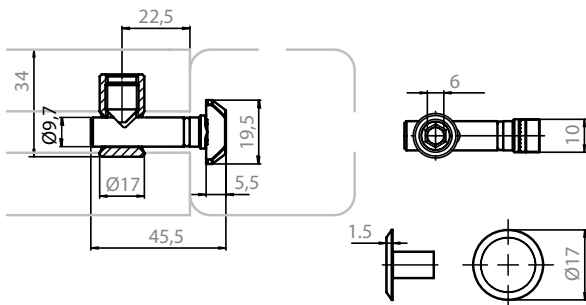
A	5 6	B	8 2	C	11 9	D	8 4.50
	SERIE 20		SERIE 30		SERIE 30		SERIE 40
E	8.2 16.50	F	8 15	G	10.20 14.50	H	10.1 15
	SERIE 45		SERIE 45		SERIE 45		SERIE 45

DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 30 - 0°	ZINC PLATED STEEL	21	SA202001
CENTRAL CONNECTOR SERIES 30 - 90°	ZINC PLATED STEEL	21	SA202002



A	5 6	B	8 9.20	C	11 9	D	8 4.50
	SERIE 20		SERIE 30		SERIE 30		SERIE 40
E	8.2 16.50	F	8 4.50	G	10.20 14.50	H	10.1 15
	SERIE 45		SERIE 45		SERIE 45		SERIE 45

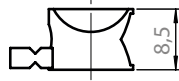
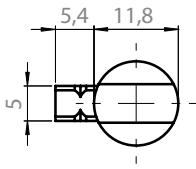
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 40 - 0°	ZINC PLATED STEEL	26	SA202003
CENTRAL CONNECTOR SERIES 40 - 90°	ZINC PLATED STEEL	26	SA202004



A	5 6	B	8 9.20	C	11 9	D	8 12.50
	SERIE 20		SERIE 30		SERIE 30		SERIE 40
E	8.2 16.50	F	8 15	G	10.20 6	H	10.1 4.5
	SERIE 45		SERIE 45		SERIE 45		SERIE 45

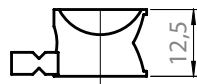
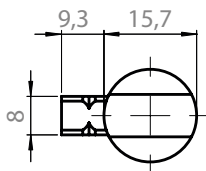
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 45 - 0°	ZINC PLATED STEEL	56	SA202005
CENTRAL CONNECTOR SERIES 45 - 90°	ZINC PLATED STEEL	56	SA202006

### 3.3 MULTI PURPOSE CONNECTOR



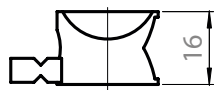
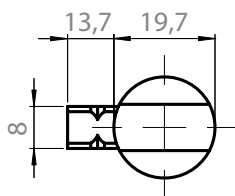
A	5 1.50 SERIE 20	B	8 9.20 SERIE 30	C	11 9 SERIE 30	D	8 4.50 SERIE 40
E	8.2 16.50 SERIE 45	F	8 15 SERIE 45	G	10.20 14.50 SERIE 45	H	10.1 15 SERIE 45

DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 20	ZINC PLATED STEEL	3,4	SA202007



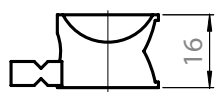
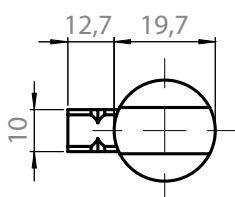
A	5 6 SERIE 20	B	8 2 SERIE 30	C	11 9 SERIE 30	D	8 4.50 SERIE 40
E	8.2 16.50 SERIE 45	F	8 15 SERIE 45	G	10.20 14.50 SERIE 45	H	10.1 15 SERIE 45

DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 30	ZINC PLATED STEEL	9	SA202008



A	5 6 SERIE 20	B	8 9.20 SERIE 30	C	11 9 SERIE 30	D	8 4.50 SERIE 40
E	8.2 4.50 SERIE 45	F	8 4.50 SERIE 45	G	10.20 14.50 SERIE 45	H	10.1 15 SERIE 45

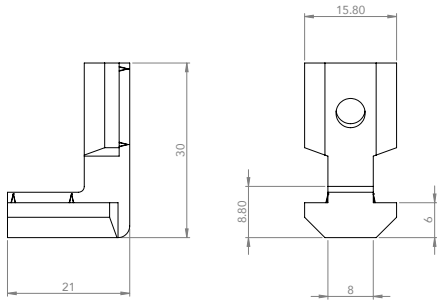
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 40	ZINC PLATED STEEL	19,5	SA202009



A	5 6 SERIE 20	B	8 9.20 SERIE 30	C	11 9 SERIE 30	D	8 12.50 SERIE 40
E	8.2 16.50 SERIE 45	F	8 15 SERIE 45	G	10.20 6 SERIE 45	H	10.1 4.5 SERIE 45

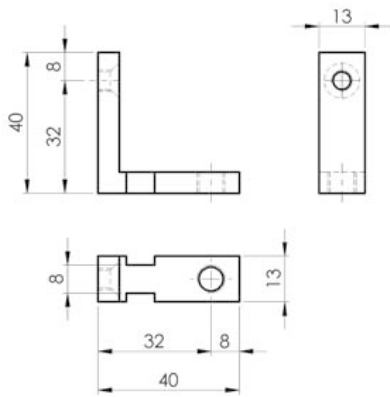
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CENTRAL CONNECTOR SERIES 45	ZINC PLATED STEEL	14	SA202010

### 3.4 90° INNER CONNECTOR



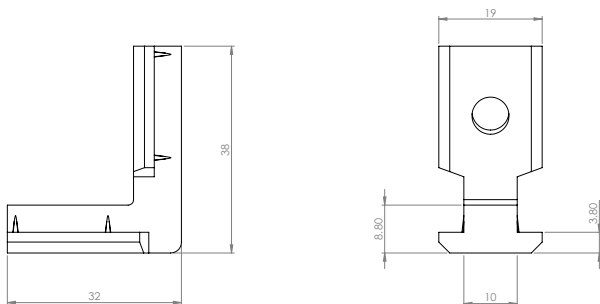
A	5 6 SERIE 20	B	8 2 SERIE 30	C	11 9 SERIE 30	D	8 4.50 SERIE 40
E	8.2 16.50 SERIE 45	F	8 4.50 SERIE 45	G	10.20 14.50 SERIE 45	H	10.1 15 SERIE 45

DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
INNER CONNECTOR 90° SERIES 30 -40	ZINC PLATED STEEL	24	SA202011



A	5 6 SERIE 20	B	8 9.20 SERIE 30	C	11 9 SERIE 30	D	8 4.50 SERIE 40
E	8.2 16.50 SERIE 45	F	8 15 SERIE 45	G	10.20 14.50 SERIE 45	H	10.1 15 SERIE 45

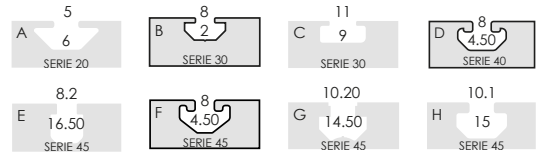
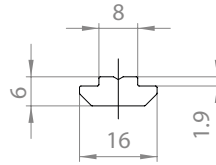
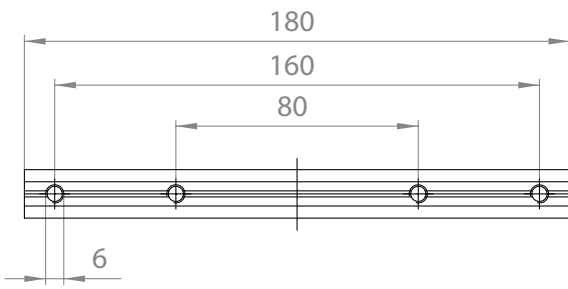
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
INNER CONNECTOR 90° SERIES 45	ZINC PLATED STEEL	37	SA202012



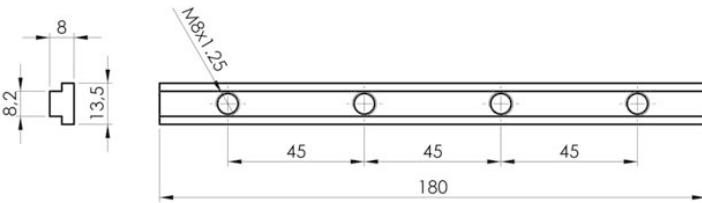
A	5 6 SERIE 20	B	8 9.20 SERIE 30	C	11 9 SERIE 30	D	8 12.50 SERIE 40
E	8.2 16.50 SERIE 45	F	8 15 SERIE 45	G	10.20 6 SERIE 45	H	10.1 4.5 SERIE 45

DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
INNER CONNECTOR 90° SERIES 45	ZINC PLATED STEEL	44	SA202013

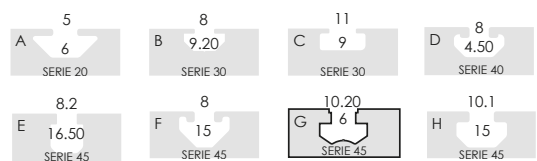
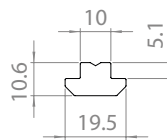
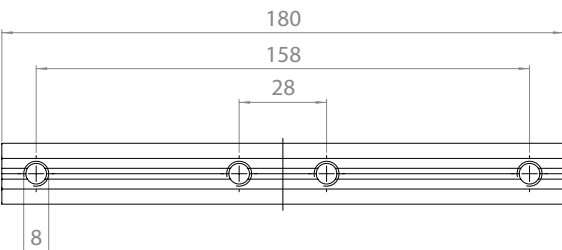
### 3.5 LINEAR CONNECTOR



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
LINEAR CONNECTOR SERIES 30 -40	ZINC PLATED STEEL	134	SA202014

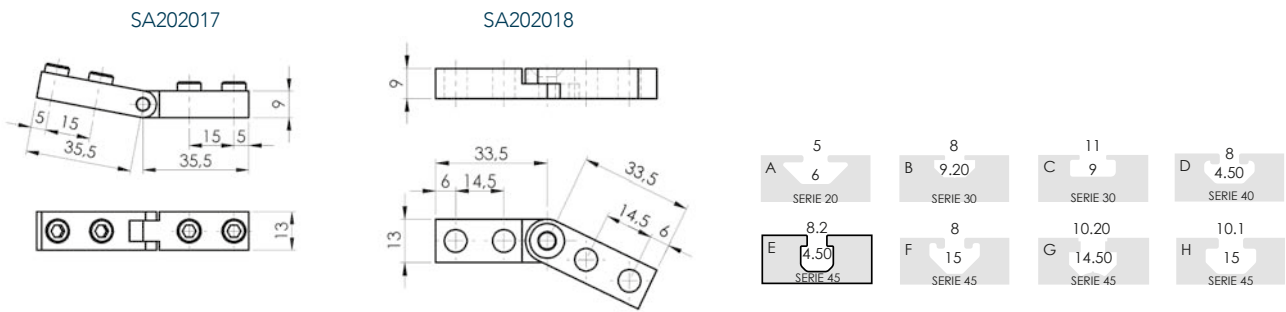


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
LINEAR CONNECTOR SERIES 45	ZINC PLATED STEEL	124	SA202015



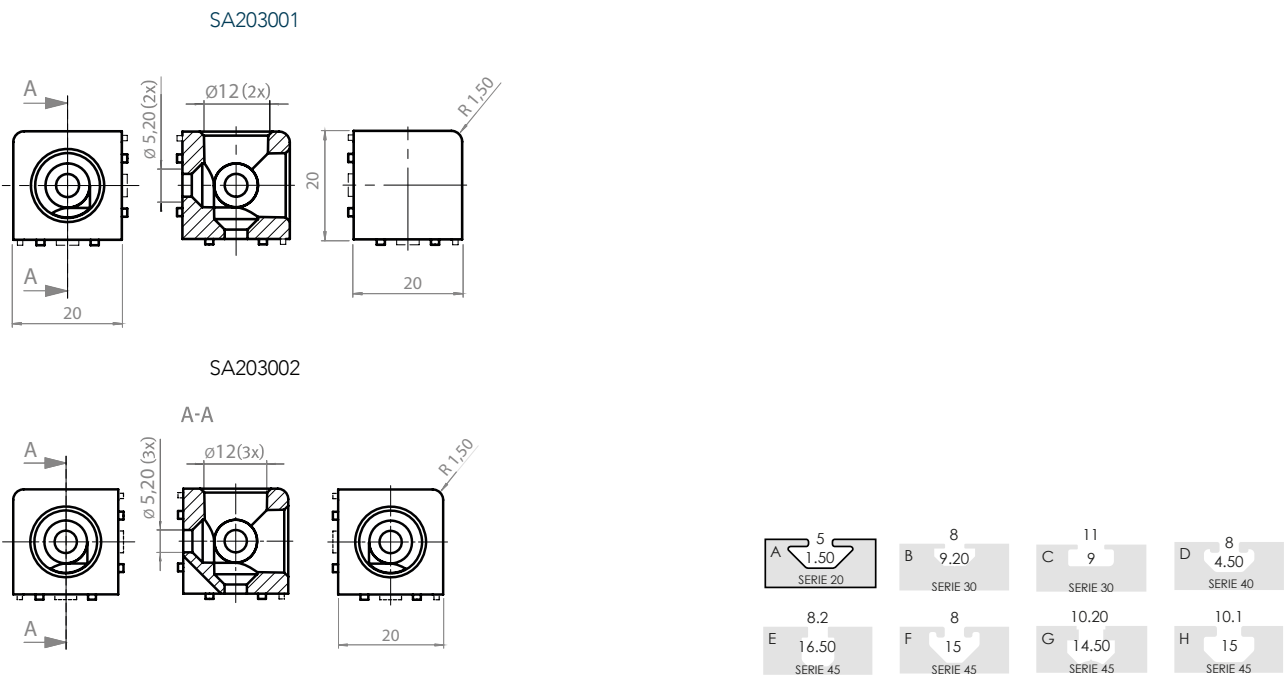
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
LINEAR CONNECTOR SERIES 45	ZINC PLATED STEEL	264	SA202016

### 3.6 SWIVEL CONNECTOR



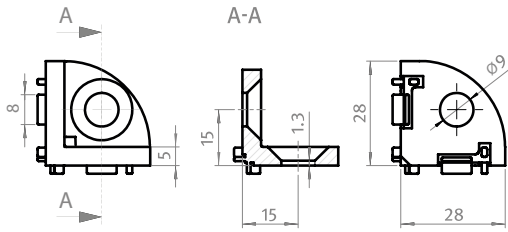
DESCRIPTION	MATERIAL	WEIGHT (g)	FAIT
SWIVEL CONNECTOR 45	ZINC PLATED STEEL	59	SA202017
SWIVEL CONNECTOR 45	ZINC PLATED STEEL	55	SA202018

### 3.7 ANGULAR CONNECTOR

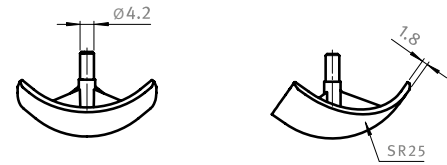


DESCRIPTION	MATERIAL	WEIGHT (g)	FAIT
SQUARE JOINT SERIES 20 - 2 WAYS	CASTING ALUMINUM	10	SA203001
SQUARE JOINT SERIES 20 - 3 WAYS	CASTING ALUMINUM	10	SA203002

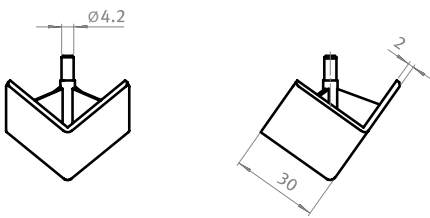
### 3.7 ANGULAR CONNECTOR



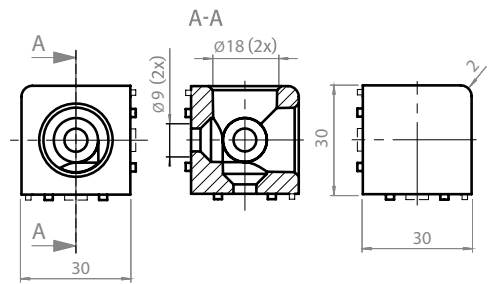
SA203003



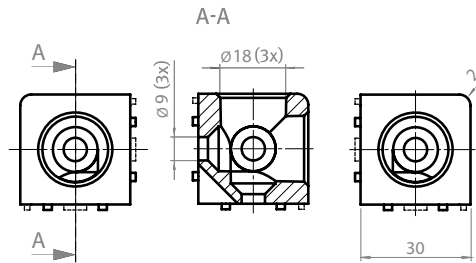
SA203004



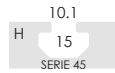
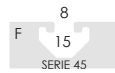
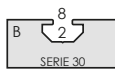
SA203005



SA203006

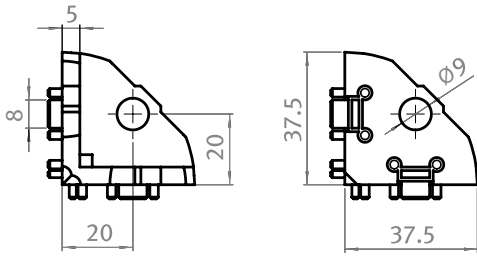


SA203007

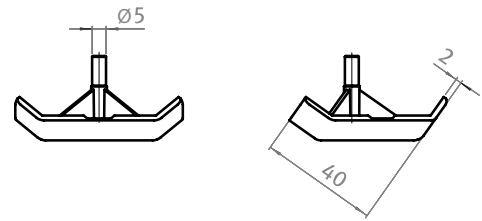


DESCRIPTION	MATERIAL	WEIGHT (g)	FAIT
3 WAYS BODY CONNECTION	ZINC PLATED STEEL	39	SA203003
3 WAYS JOINT ROUND CAP SERIES 30	NYLON	10	SA203004
3 WAYS JOINT SQUARE CAP SERIES 30	NYLON	8	SA203005
2 WAYS CUBE JOINT SERIES 30	CASTING ALUMINUM	38,5	SA203006
3 WAYS CUBE JOINT SERIES 30	CASTING ALUMINUM	38,5	SA203007

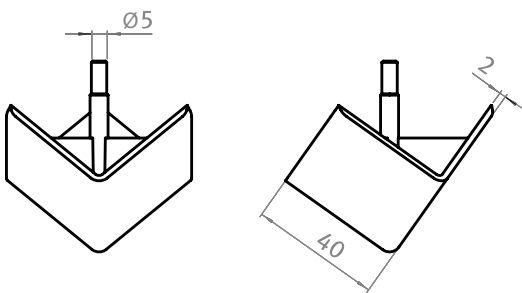
### 3.7 ANGULAR CONNECTOR



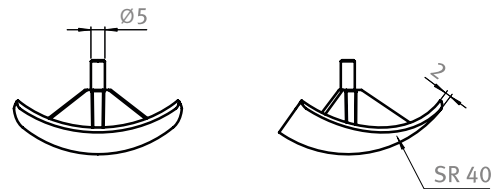
SA203008



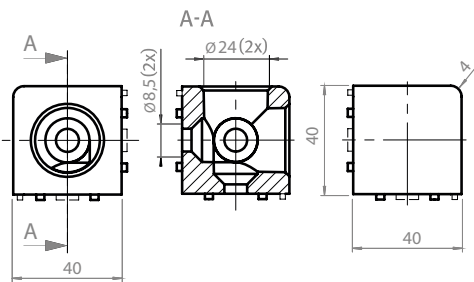
SA203009



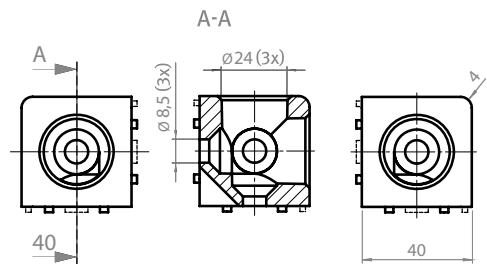
SA203010



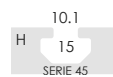
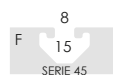
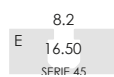
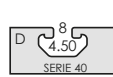
SA203011



SA203012

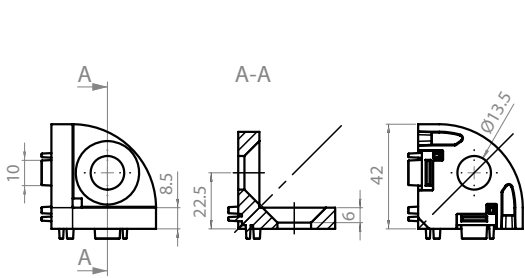


SA203013

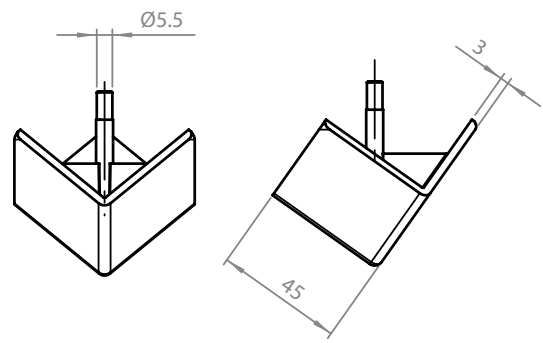


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
3 WAYS BODY CONNECTION SERIES 40	ZINC PLATED STEEL	83	SA203008
3 WAYS JOINT ROUND CAP SERIES 40	NYLON	8	SA203009
3 WAYS JOINT SQUARE CAP SERIES 40	NYLON	15	SA203010
3 WAYS JOINT ROUND CAP SERIES 40	NYLON	8	SA203011
2 WAYS CUBE JOINT SERIES 40	CASTING ALUMINUM	94,50	SA203012
3 WAYS CUBE JOINT SERIES 40	CASTING ALUMINUM	94,50	SA203013

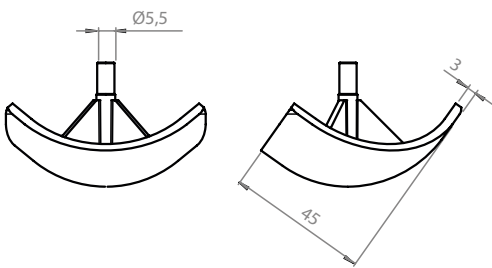
### 3.7 ANGULAR CONNECTOR



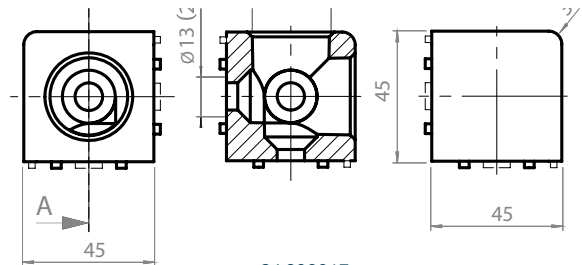
SA203014



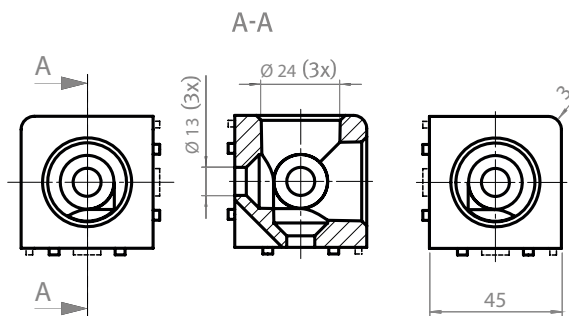
SA203015



SA203016



SA203017



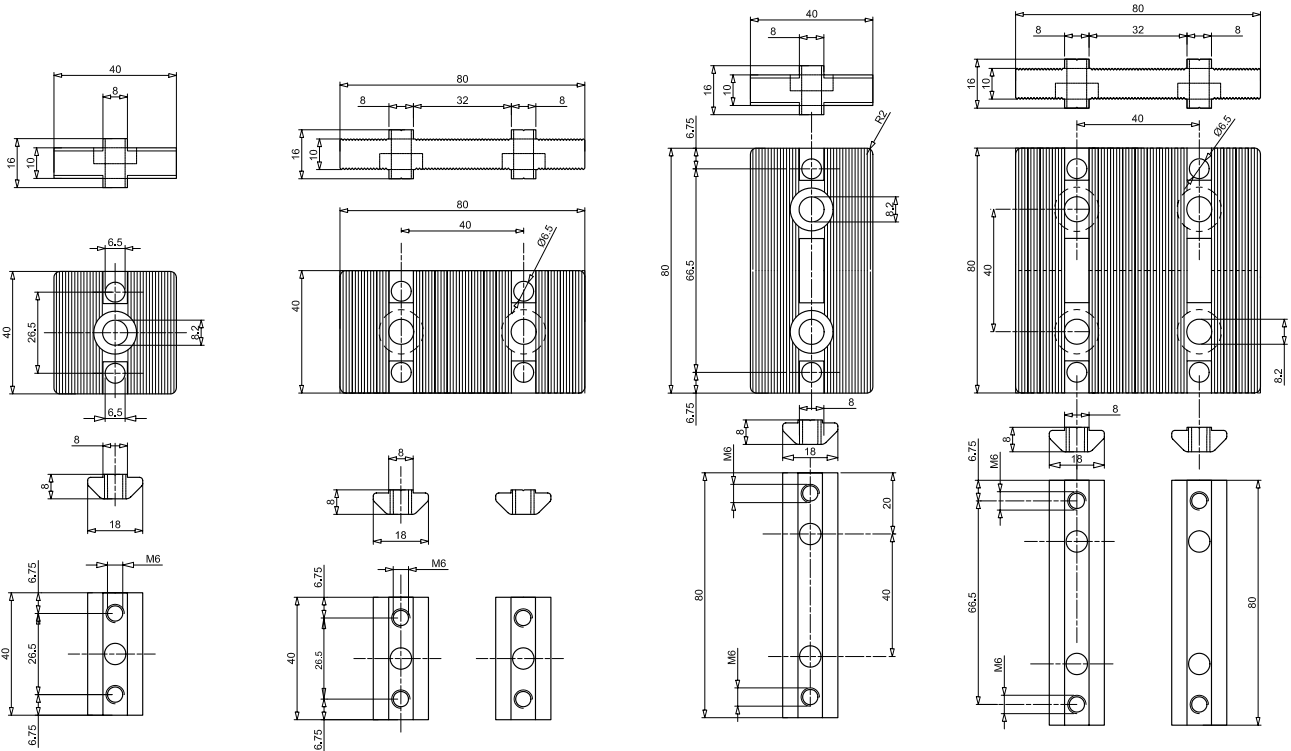
SA203018



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
3 WAYS BODY CONNECTION SERIES 45	ZINC PLATED STEEL	132	SA203014
3 WAYS JOINT SQUARE CAP SERIES 45	NYLON	28	SA203015
3 WAYS JOINT ROUND CAP SERIES 45	NYLON	16	SA203016
2 WAYS CUBE JOINT SERIES 45	CASTING ALUMINUM	151,50	SA203017
3 WAYS CUBE JOINT SERIES 45	CASTING ALUMINUM	151,50	SA203018



### 3.8 HEAD CONNECTOR

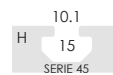
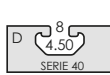


SA204001

SA204002

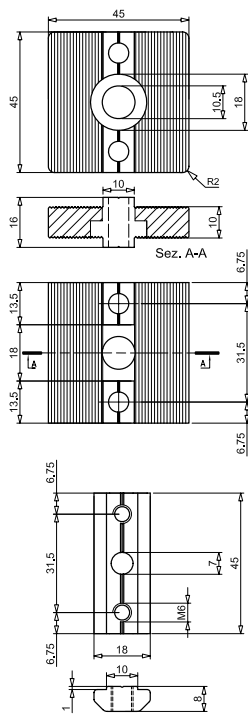
SA204003

SA204004

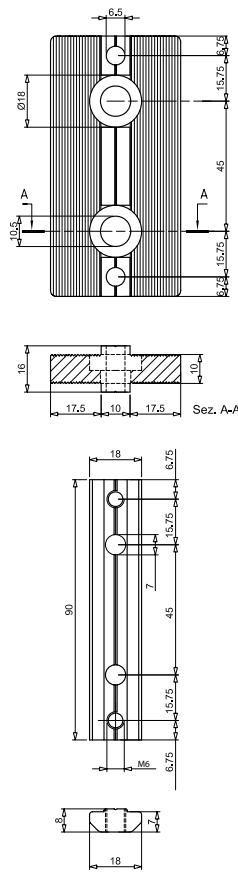


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CONNECTION KIT 40X40	TUMBLED ALUMINUM	60	SA204001
CONNECTION KIT 40X80 VERTICAL	TUMBLED ALUMINUM	95	SA204002
CONNECTION KIT 40X80 HORIZONTAL	TUMBLED ALUMINUM	120	SA204003
CONNECTION KIT 80X80	TUMBLED ALUMINUM	198	SA204004

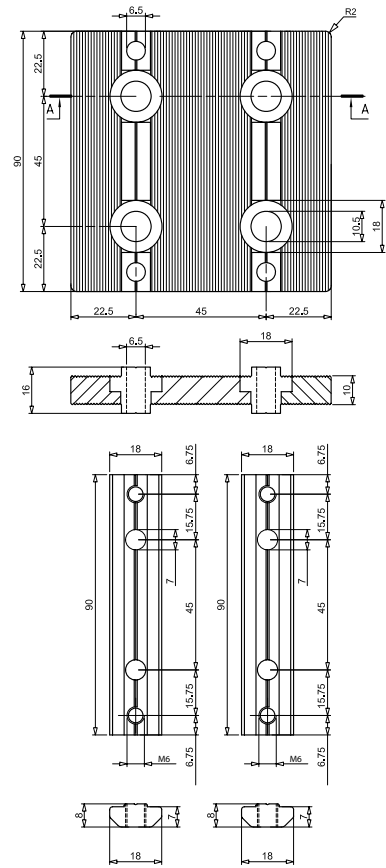
### 3.8 HEAD CONNECTOR



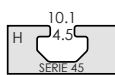
SA204005



SA204006

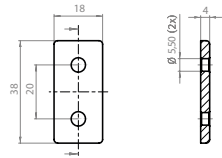


SA204007

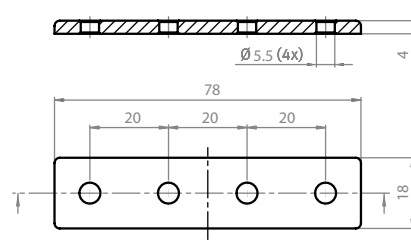


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
CONNECTION KIT 45X45	TUMBLER ALUMINUM	61	SA204005
CONNECTION KIT 45X90 HORIZONTAL	TUMBLER ALUMINUM	125	SA204006
CONNECTION KIT 90X90	TUMBLER ALUMINUM	258	SA204007

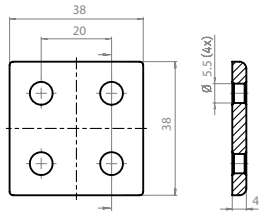
### 3.9 FIXING PLATE SLOT 5 SERIES 20



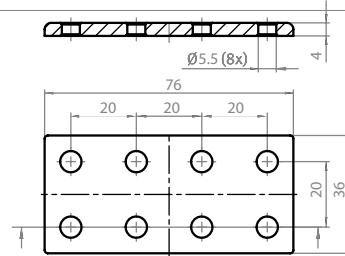
SA205001



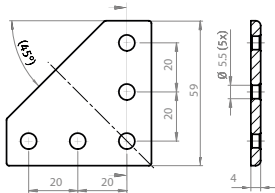
SA205002



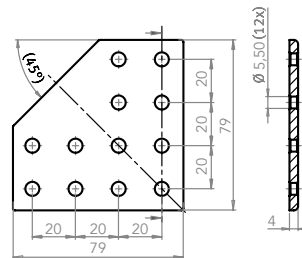
SA205003



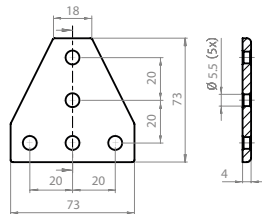
SA205004



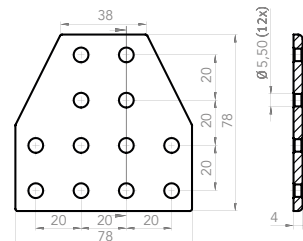
SA205005



SA205006



SA205007

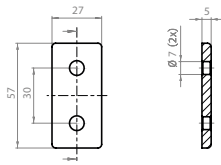


SA205008

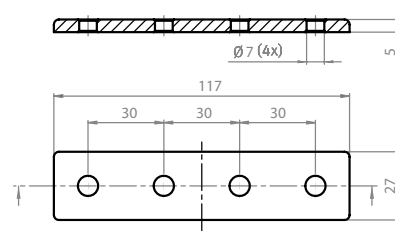


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
FIXING PLATE 20X40	ANODIZED ALUMINUM	7	SA205001
FIXING PLATE 20X80	ANODIZED ALUMINUM	15	SA205002
FIXING PLATE 40X40	ANODIZED ALUMINUM	15	SA205003
FIXING PLATE 40X80	ANODIZED ALUMINUM	27	SA205004
FIXING PLATE 60X60	ANODIZED ALUMINUM	27	SA205005
FIXING PLATE 80X80	ANODIZED ALUMINUM	55	SA205006
FIXING PLATE 60X60	ANODIZED ALUMINUM	27	SA205007
FIXING PLATE 80X80	ANODIZED ALUMINUM	55	SA205008

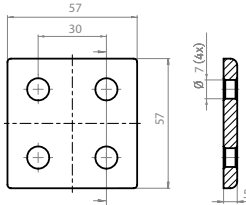
### 3.10 FIXING PLATE SLOT 8 SERIES 30



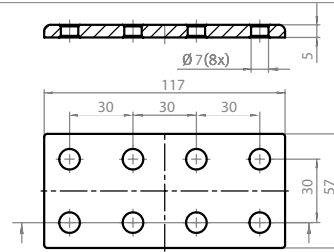
SA205009



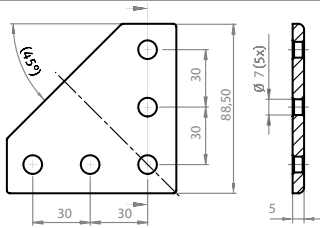
SA205010



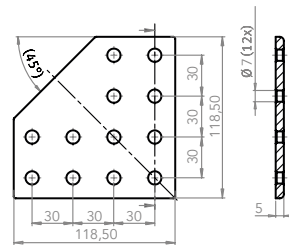
SA205011



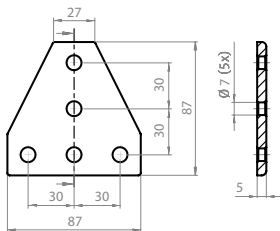
SA205012



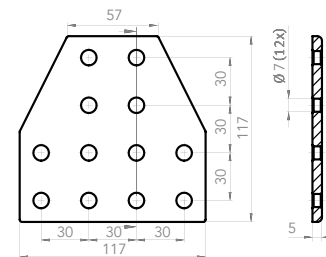
SA205013



SA205014



SA205015

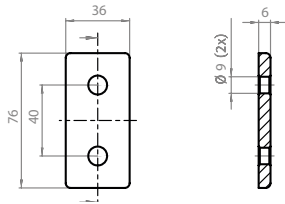


SA205016

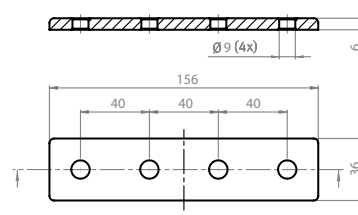


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
30x60	ANODIZED ALUMINUM	20	SA205009
30x120	ANODIZED ALUMINUM	40	SA205010
60x60	ANODIZED ALUMINUM	42	SA205011
60x120	ANODIZED ALUMINUM	85	SA205012
90x90	ANODIZED ALUMINUM	78	SA205013
120x120	ANODIZED ALUMINUM	158	SA205014
90x90	ANODIZED ALUMINUM	75	SA205015
120x120	ANODIZED ALUMINUM	154	SA205016

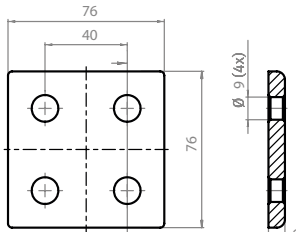
### 3.11 FIXING PLATE



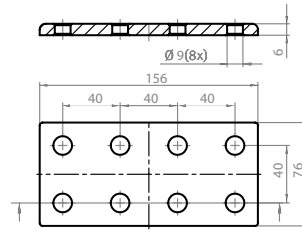
SA205017



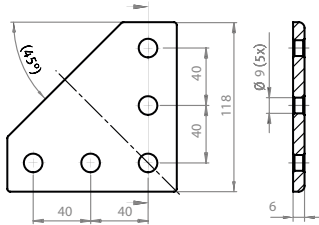
SA205018



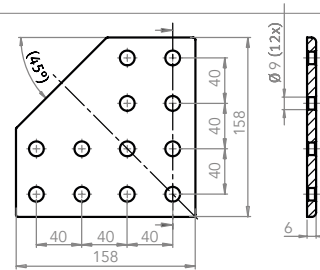
SA205019



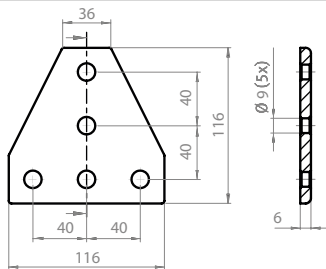
SA205020



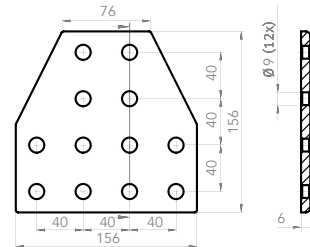
SA205021



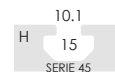
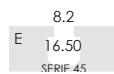
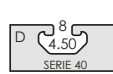
SA205022



SA205023

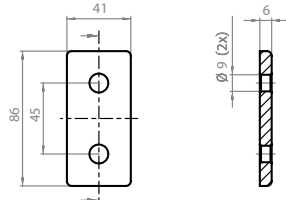


SA205024

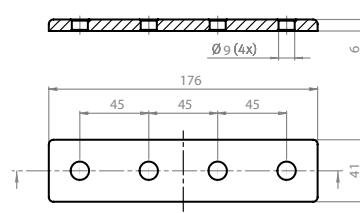


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
40x80	ANODIZED ALUMINUM	42	SA205017
40x160	ANODIZED ALUMINUM	86	SA205018
80x80	ANODIZED ALUMINUM	90	SA205019
80x160	ANODIZED ALUMINUM	185	SA205020
120x120	ANODIZED ALUMINUM	168	SA205021
160x160	ANODIZED ALUMINUM	340	SA205022
120x120	ANODIZED ALUMINUM	160	SA205023
160x160	ANODIZED ALUMINUM	330	SA205024

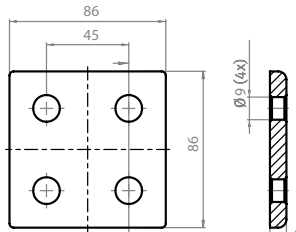
### 3.11 FIXING PLATE



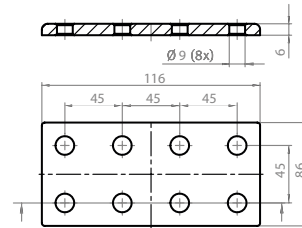
SA205025



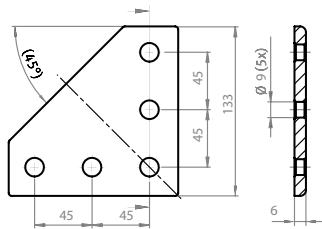
SA205026



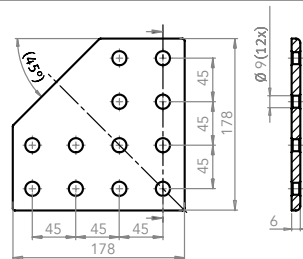
SA205027



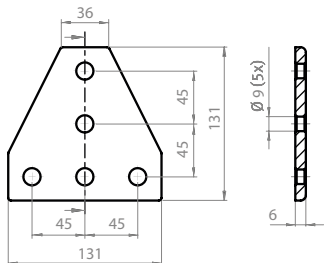
SA205028



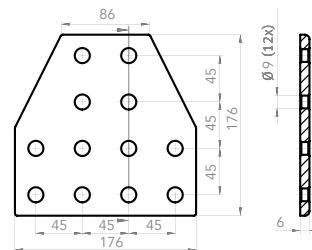
SA205029



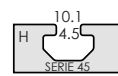
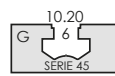
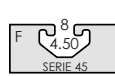
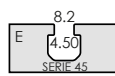
SA205030



SA205031

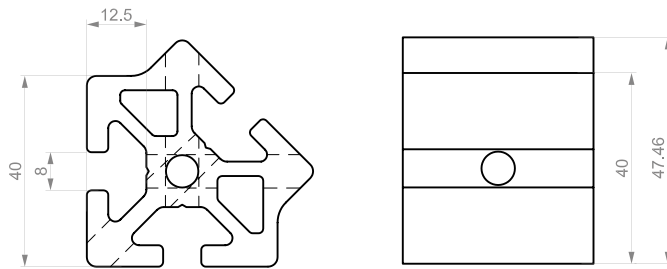


SA205032

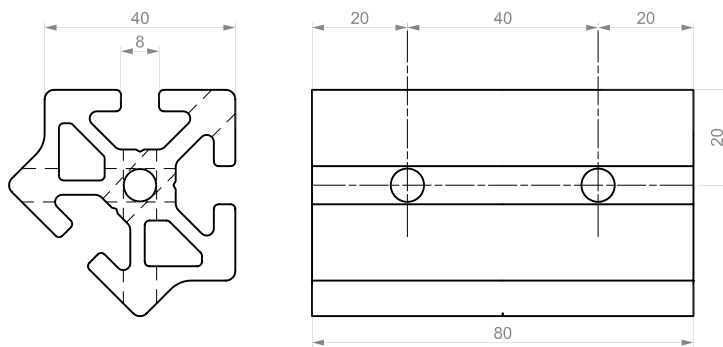


DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
45x90	ANODIZED ALUMINUM	55	SA205025
45x180	ANODIZED ALUMINUM	112	SA205026
90x90	ANODIZED ALUMINUM	115	SA205027
90x180	ANODIZED ALUMINUM	240	SA205028
135x135	ANODIZED ALUMINUM	215	SA205029
180x180	ANODIZED ALUMINUM	435	SA205030
135x135	ANODIZED ALUMINUM	210	SA205031
180x180	ANODIZED ALUMINUM	425	SA205032

### 3.12 45° PROFILE CONNECTOR



SA206001

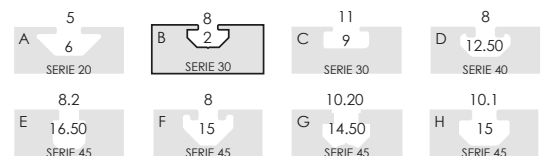
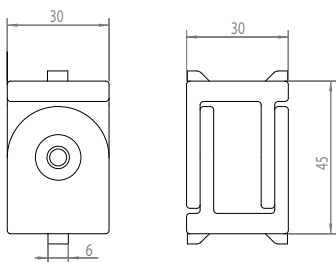


SA206002



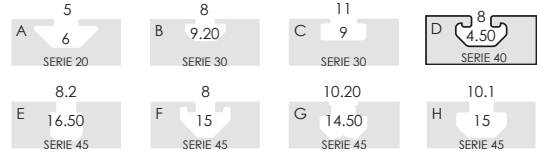
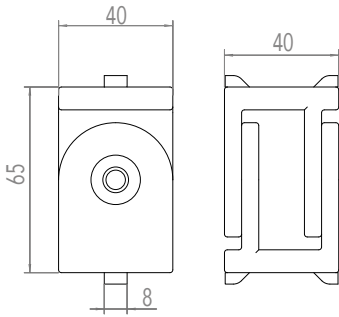
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
ANGULAR CONNECTOR 40x40x45°	ANODIZED ALUMINUM	92	SA206001
ANGULAR CONNECTOR 40x80x45°	ANODIZED ALUMINUM	184	SA206002

### 3.13 SWIVEL CONNECTOR



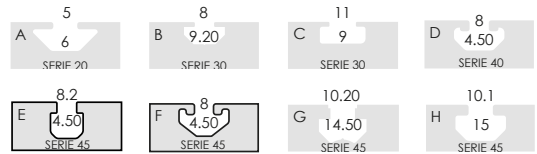
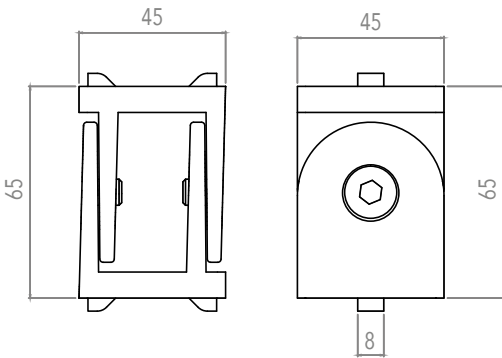
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
SERIES 30 SWIVEL CONNECTOR	SANDBLASTED ALUMINUM	55	SA208001

### 3.13 SWIVEL CONNECTOR



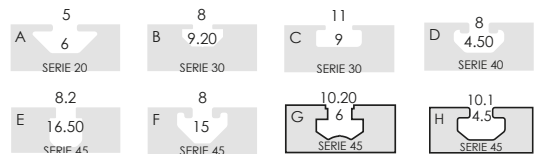
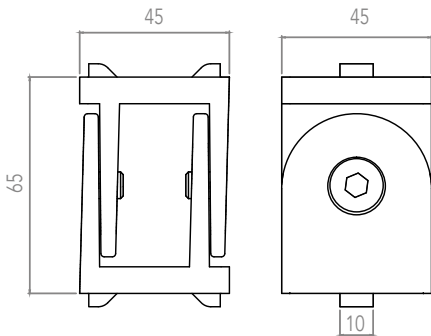
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
SERIES 40 SWIVEL CONNECTOR	SANDBLASTED ALUMINUM	146	SA208002

### 3.13 SWIVEL CONNECTOR



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
SERIES 40 SLOT 8 SWIVEL CONNECTOR	SANDBLASTED ALUMINUM	210	SA208003

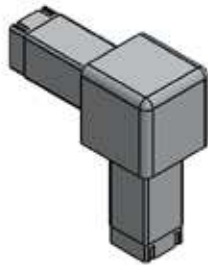
### 3.13 SWIVEL CONNECTOR



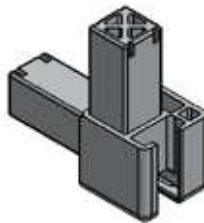
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
SERIES 40 SLOT 10 SWIVEL CONNECTOR	SANDBLASTED ALUMINUM	210	SA208004



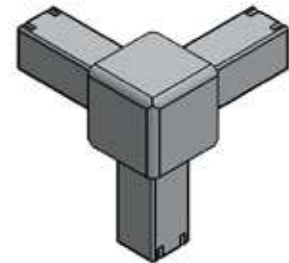
### 3.14 FRAME CONNECTORS



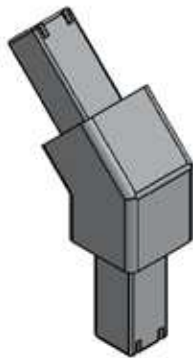
SA207001G/SA207001N



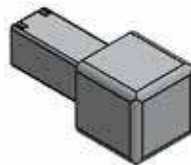
SA207002G/SA207002N



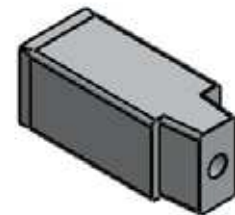
SA207003G/SA207003N



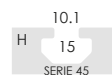
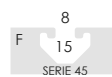
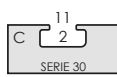
SA207004G/SA207004N



SA207005G/SA207005N

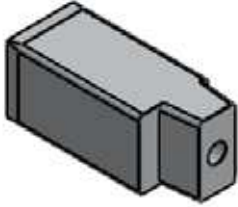


SA207006G/SA207006N

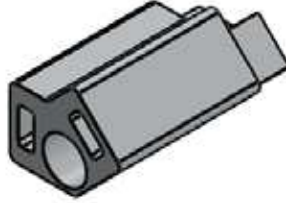


DESCRIPTION	COLOUR	CODE
2 WAYS CONNECTOR 90 GR	GREY/BLACK	SA207001G
		SA207001N
2 WAYS CONNECTOR 90 GR	GREY/BLACK	SA207002G
		SA207002N
3 WAYS CONNECTOR 90 GR	GREY/BLACK	SA207003G
		SA207003N
2 WAYS CONNECTOR 135 GR	GREY/BLACK	SA207004G
		SA207004N
CONNECTOR (CAP)	GREY/BLACK	SA207005G
		SA207005N
DOUBLE CONNECTOR 30X30	GREY/BLACK	SA207006G
		SA207006N

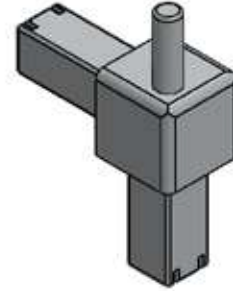
### 3.14 FRAME CONNECTORS



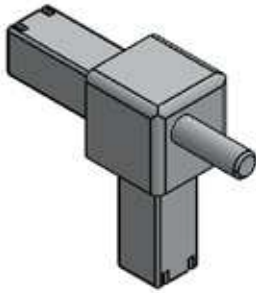
SA207007G/SA207007N



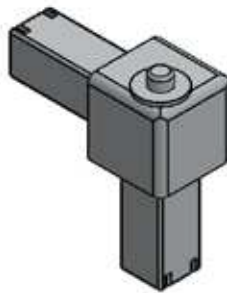
SA207008G/SA207008N



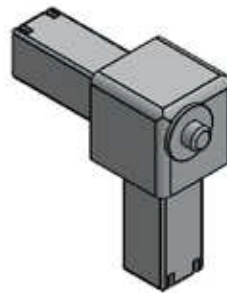
SA207009G/SA207009N



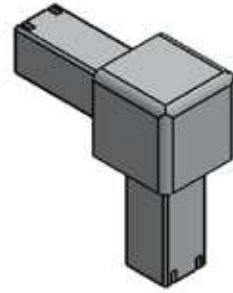
SA207010G/SA207010N



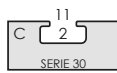
SA207011G/SA207011N



SA207012G/SA207012N

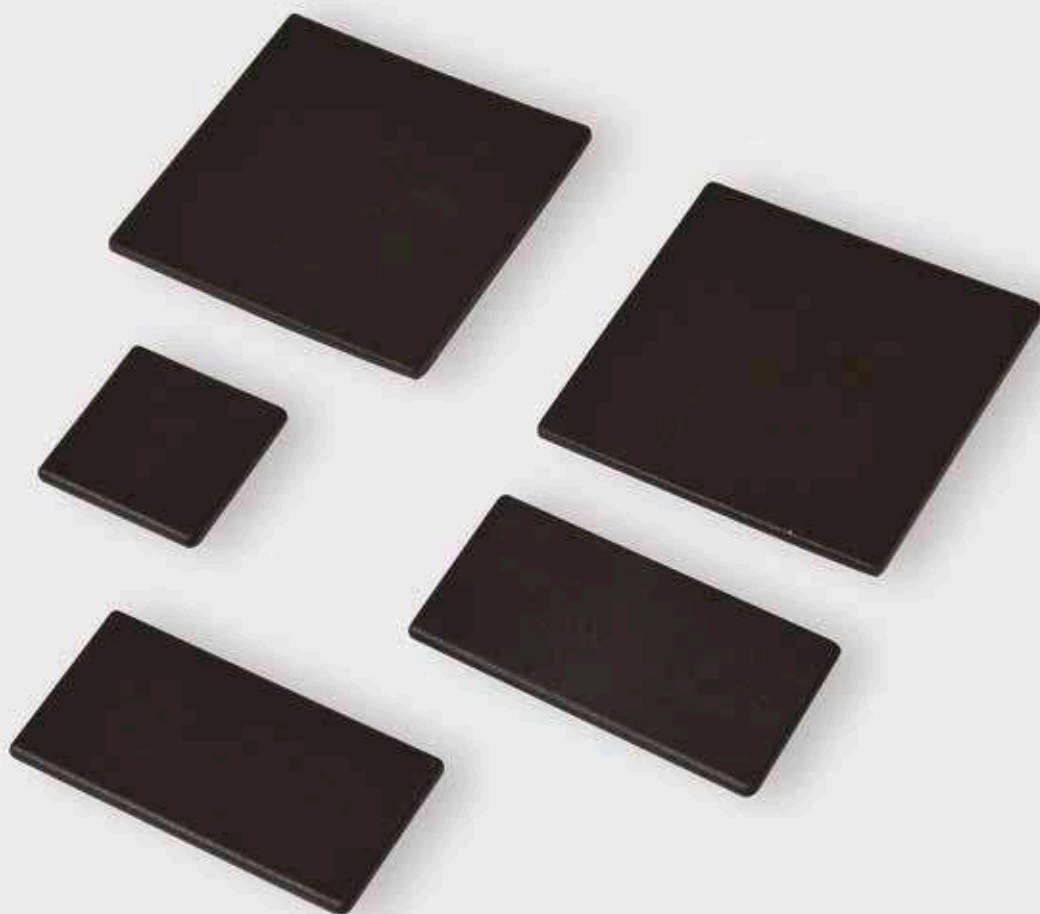


SA207013G/SA207013G



DESCRIPTION	COLOUR	CODE
DOUBLE CONNECTOR 40X21	GREY/BLACK	SA207007G
		SA207007N
ACCESS. 135 INNER CONNECTOR	GREY/BLACK	SA207008G
		SA207008N
2 WAYS PIN DX L27 90 GR. CONNECTOR	GREY/BLACK	SA207009G
		SA207009N
2 WAYS PIN SX L27 90 GR. CONNECTOR	GREY/BLACK	SA207010G
		SA207010N
2 WAYS RIGHT SCREW 90 GR. CONNECTOR	GREY/BLACK	SA207011G
		SA207011N
2 WAYS LEFT SCREW 90 GR. CONNECTOR	GREY/BLACK	SA207012G
		SA207012N
2 WAYS MAGNET 90 GR. CONNECTOR	GREY/BLACK	SA207013G
		SA207013N

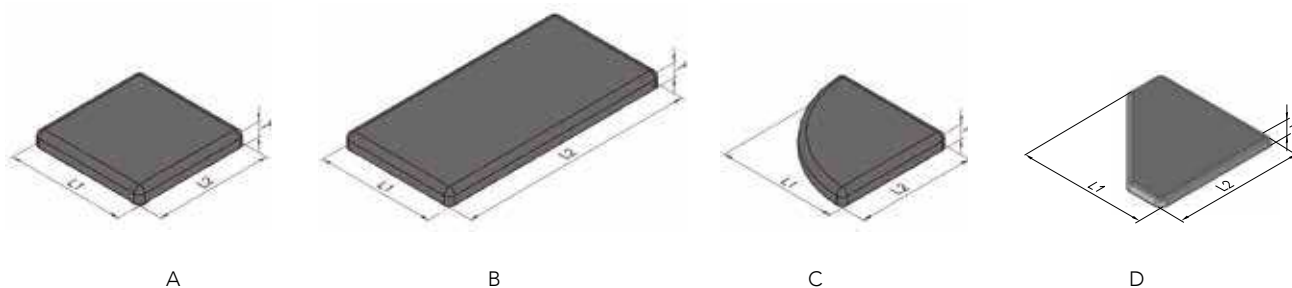
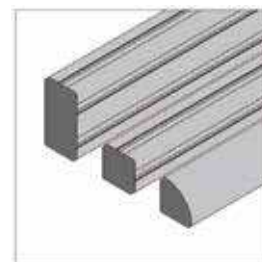




4

CLOSING ACCESSORIES

## 4.1 CAPS FOR PROFILES



CAP TYPE	CAP CODE	MOUNTING ON	L1 (mm)	L2 (mm)	T (mm)
A	SA301001	SA020020AL0205M	20	20	3
		SA020020AL0305M			
		SA020020AL0405M			
B	SA301002	SA020032AL0108M	20	32	3
		SA020032AL0208M			
B	SA301003	SA020040AL0208M	20	40	3
A	SA30104	SA030030AL0208M	30	30	3
		SA030030AL0308M			
		SA030030AL0408M			
		SA030030AL0408B			
B	SA301005	SA030060AL0608M	30	60	3
		SA030060AL0608B			
B	SA301006	SA030070AL0608M	30	70	3
A	SA301008	SA040040AX0108M	40	40	3
		SA040040AX0208M			
		SA040040AX0308M			
		SA040040AX0408M			
B	SA301011	SA040080AX0608M	40	80	3
A	SA301008	SA040040AL0208M	40	40	3
		SA040040AL0308M			
		SA040040AL0408M			
C	SA301009	SA040040RL0208M	40	40	3
D	SA301010	SA040040BL0208M	40	40	3
B	SA301011	SA040080AL0308M	40	80	3
		SA040080AL0408M			
		SA040080AL0608M			

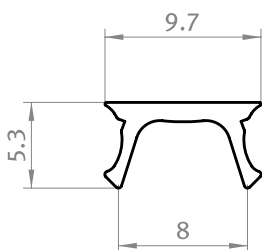
## 4.1 CAPS FOR PROFILES

CAP TYPE	CAP CODE	MOUNTING ON	L1 (mm)	L2 (mm)	T (mm)
B	SA301008+SA301011	SA040120AL0808M	40	120	3
B	2 SA301011	SA040160AL1008M	40	160	3
A	SA301007	SA060060AL0408M	60	60	3
A	SA301012	SA080080AL0808M	80	80	3
B	SA301011+SA301012	SA080120AL1008M	80	120	3
B	2 SA301012	SA080160AL1208M	80	160	3
A	SA301008	SA040040PP0408M	40	40	3
D	SA301010	SA040040BP0208M	40	40	3
		SA040040CP0308M			
B	SA301011	SA040080PP0608M	40	80	3
B	SA301008+SA301011	SA040120PP0808M	40	120	3
A	SA301012	SA080080PP0808M	80	80	3
B	SA301011+SA301012	SA080120PP1008M	80	120	3
B	2 SA301012	SA080160AP1208M	80	160	3
B	SA301013	SA185032AL0108T	18,5	32	2,5
B	SA301014	SA185045AL0208T	18,5	45	2,5
B	SA301015	SA185045AL0308T	18,5	45	2,5
A	SA301016	SA032032AL0208T	32	32	2,5
	SA301017	SA032032RL0208T	32	32	2,5
B	SA301018	SA045225AL0210M	22,5	45	3
		SA045225VL0208M			
B	SA301019	SA045032AL0308T	32	45	2,5
A	SA301020	SA045045AL0108T	45	45	2,5
		SA045045AL0208T			
		SA045045AL0308T			
		SA045045AL0408T			
		SA045045AL0408X			
A	SA301021	SA045045VL0408M	45	45	3
		SA045045AL0410M			
A	SA301022	SA045045AL0410B	45	45	2,5
A	SA301021	SA045045VL0410M	45	45	3
D	SA301022	SA045045BL0208T	45	45	2,5
C	SA301023	SA045045RL0208T	45	45	2,5
B	SA301024	SA045060AL0410B	45	60	2,5
B	SA301025	SA045060AL0410M	45	60	3
B	SA301026	SA045060AL0408T	45	60	2,5
B	SA301027	SA045090AL0608T	45	90	3
B	SA301028	SA045090AL0610M			

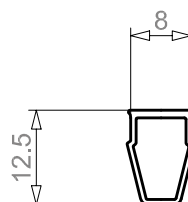
## 4.1 CAPS FOR PROFILES

CAP TYPE	CAP CODE	MOUNTING ON	L1 (mm)	L2 (mm)	T (mm)
B	SA301029	SA045090AL0610B	45	90	2,5
B	SA301028	SA045090VL0608M	45	90	3
		SA045090VL0610M			
B	SA301021+SA301028	SA045135VL0808M	45	135	3
A	SA301030	SA090090AL0810B	90	90	2,5
A	SA301034	SA090090AL0808T	90	90	2,5
A	SA301031	SA090090VL0808M	90	90	3
		SA090090AL1008M			
B	2 SA301031	SA090180AL1208M	90	180	3
B	SA301035	SA185180AP0908T	18,5	180	2,5
A	SA301032	SA045045AP0208T	45	45	3
A	SA301021	SA045045AP0410M	45	45	3
A	SA301032	SA045045AP0408T	45	45	2,5
B	SA301033	SA045090AP0608T	45	90	2,5
B	SA301028	SA045090AP0610M	45	90	3
B	SA301033	SA045135AP0808T	45	135	2,5
B	SA301021+SA301028	SA045135AP0810M	45	135	3
A	SA301031	SA090090AP0810M	90	90	3
A	SA301034	SA090090AP0808T	90	90	2,5

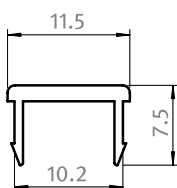
## 4.2 CLOSING PROFILE



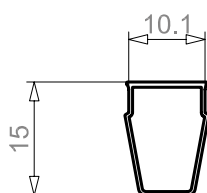
SA302001



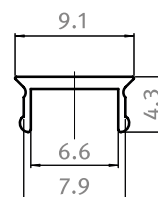
SA302002



SA302003



SA302004



SA302005

DESCRIPTION	COLOUR - MATERIALE	COMMERCIAL LENGTH	CODE
CLOSING PROFILE SERIES 30 - SLOT B	BLACK - PLASTIC	2 METERS	SA302001
CLOSING PROFILE SERIES 30 - SLOT D	BLACK - PLASTIC	3 METERS	SA302002
CLOSING PROFILE SERIES 30 - SLOT E	BLACK - PLASTIC	3 METERS	SA302002
CLOSING PROFILE SERIES 30 - SLOT F	BLACK - PLASTIC	2 METERS	SA302001
CLOSING PROFILE SERIES 30 - SLOT G	BLACK - PLASTIC	3 METERS	SA302003
CLOSING PROFILE SERIES 30 - SLOT H	BLACK - PLASTIC	2 METERS	SA302004
CLOSING PROFILE - SLOT 8 MM	GREY - ALLUMINUM	2 METERS	SA302005



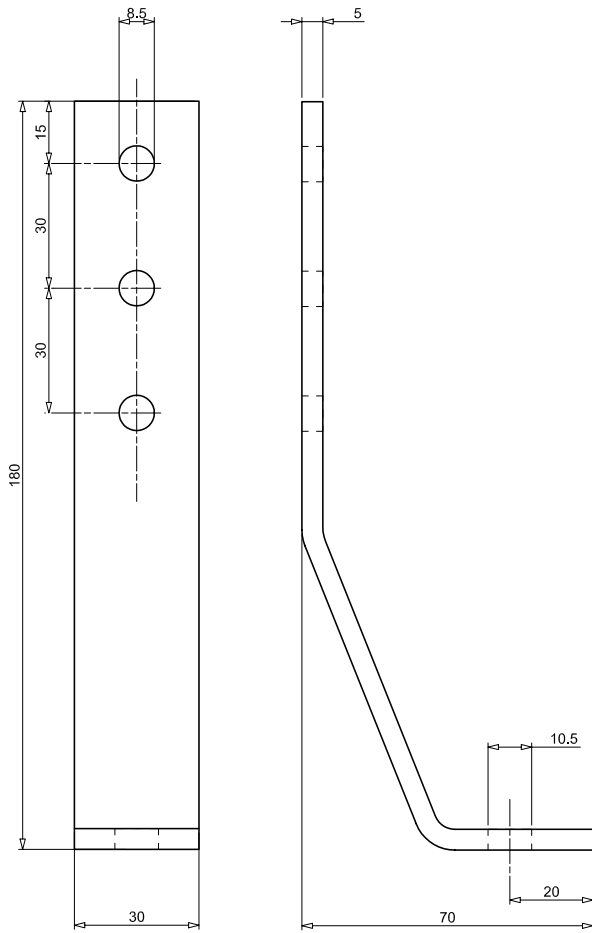




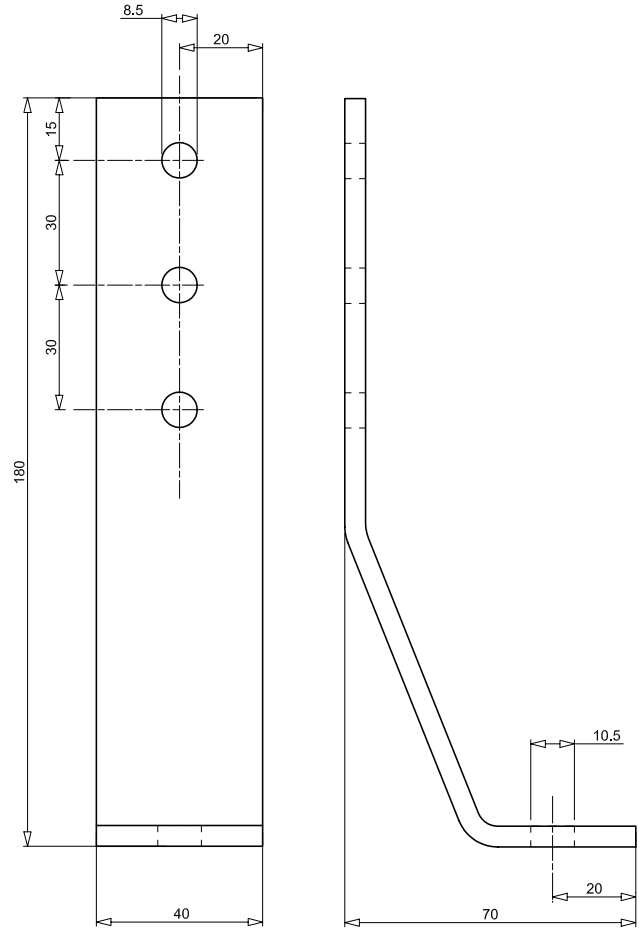
FIXING FLOOR ACCESSORIES

5

## 5.1 FLOOR ANCHOR BRACKET



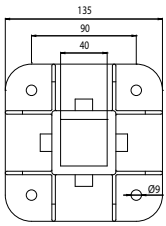
SA401001



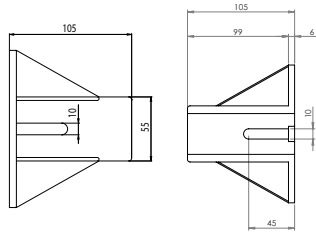
SA401002

DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
FLOOR ANCHOR BRACKET SERIES 30	ZINC PLATED STEEL	250	SA401001
FLOOR ANCHOR BRACKET SERIES 40/45	ZINC PLATED STEEL	320	SA401002

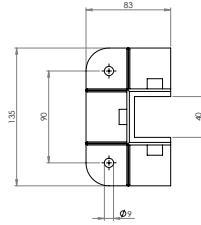
## 5.2 FLOOR ANCHOR BASE



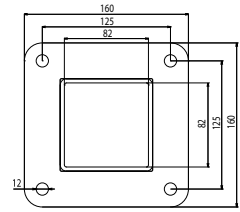
SA402001



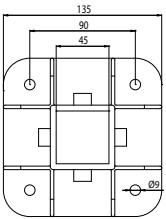
SA402002



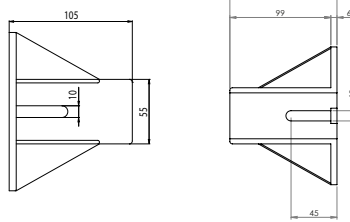
SA402003



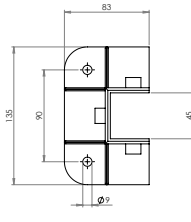
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
FLOOR ANCHOR BASE 40X40	CAST SANDBLASTED ALUMINUM	661	SA402001
FLOOR ANCHOR BASE 40X80	CAST SANDBLASTED ALUMINUM	800	SA402002
FLOOR ANCHOR BASE 80X80	CAST SANDBLASTED ALUMINUM	2360	SA402003



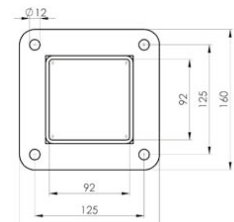
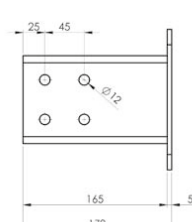
SA402004



SA402005

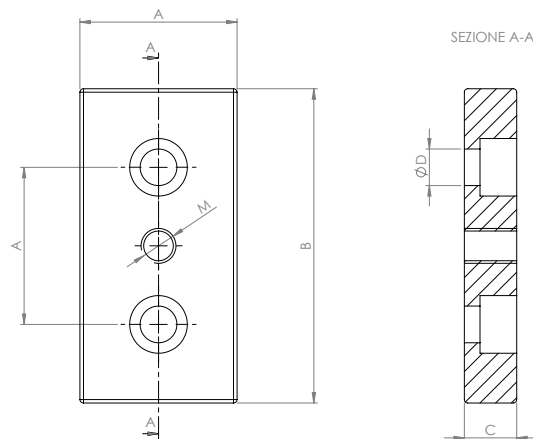


SA402006



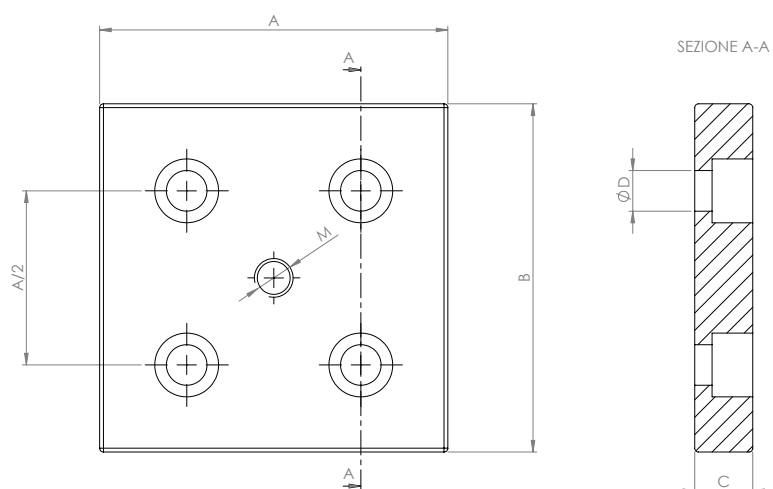
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
FLOOR ANCHOR BASE 45X45	CAST SANDBLASTED ALUMINUM	562	SA402004
FLOOR ANCHOR BASE 45X90	CAST SANDBLASTED ALUMINUM	672	SA402005
FLOOR ANCHOR BASE 90X90	CAST SANDBLASTED ALUMINUM	2364	SA402006

### 5.3 FEET AND WHEELS FIXING FLANGE



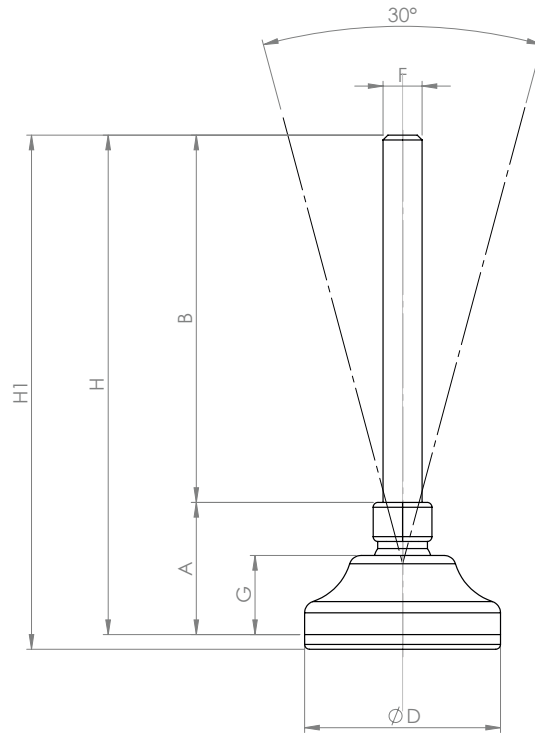
DESCRIPTION	MATERIAL	WEIGHT (g)	A (mm)	B (mm)	C (mm)	D (mm)	M	CODE
FEET BASE PROFILE 30X60	ZAMA	100	30	60	12	9 (M8)	M12	SA403001
FEET BASE PROFILE 30X60	ZAMA	98	30	60	12	9 (M8)	M16	SA403002
FEET BASE PROFILE 30X60	ZAMA	96	30	60	12	9 (M8)	M10	SA403003
FEET BASE PROFILE 40X80	ZAMA	213	40	80	16	9 (M8)	M12	SA403004
FEET BASE PROFILE 40X80	ZAMA	211	40	80	16	9 (M8)	M16	SA403005
FEET BASE PROFILE 40X80	ZAMA	209	40	80	16	9 (M8)	M10	SA403006
FEET BASE PROFILE 40X80	ZAMA	199	40	80	16	9 (M8)	M12	SA403007
FEET BASE PROFILE 45X90	ZAMA	280	45	90	16	9 (M8)	M16	SA403008
FEET BASE PROFILE 45X90	ZAMA	276	45	90	16	9 (M8)	M8	SA403009
FEET BASE PROFILE 45X90	ZAMA	266	45	90	16	9 (M8)	M10	SA403010
FEET BASE PROFILE 45X90	TUMBLER ALUMINUM	150	45	90	15	10.50 (M10)	M12	SA403011
FEET BASE PROFILE 45X90	TUMBLER ALUMINUM	146	45	90	15	10.50 (M10)	M8	SA403012
FEET BASE PROFILE 45X90	TUMBLER ALUMINUM	140	45	90	15	10.50 (M10)	M10	SA403013
FEET BASE PROFILE 45X90	ZAMA	257	45	90	16	14.50 (M12)	M12	SA403014
FEET BASE PROFILE 45X90	ZAMA	255	45	90	16	14.50 (M12)	M16	SA403015
FEET BASE PROFILE 45X90	ZAMA	247	45	90	16	14.50 (M12)	M10	SA403016

## 5.3 FEET AND WHEELS FIXING FLANGE



DESCRIPTION	MATERIAL	WEIGHT (g)	A (mm)	B (mm)	C (mm)	D (mm)	M	CODE
FEET BASE PROFILE 80X80	ZAMA	483	80	80	16	9 (M8)	M8	SA403017
FEET BASE PROFILE 80X80	ZAMA	436	80	80	16	9 (M8)	M10	SA403018
FEET BASE PROFILE 80X80	ZAMA	433	80	80	16	9 (M8)	M12	SA403019
FEET BASE PROFILE 80X80	ZAMA	425	80	80	16	9 (M8)	M16	SA403020
FEET BASE PROFILE 90X90	ZAMA	522	90	90	16	9 (M8)	M10	SA403021
FEET BASE PROFILE 90X90	ZAMA	520	90	90	16	9 (M8)	M12	SA403022
FEET BASE PROFILE 90X90	ZAMA	516	90	90	16	9 (M8)	M16	SA403023
FEET BASE PROFILE 90X90	TUMBLER ALUMINUM	300	90	90	15	10.50 (M10)	M10	SA403024
FEET BASE PROFILE 90X90	TUMBLER ALUMINUM	296	90	90	15	10.50 (M10)	M12	SA403025
FEET BASE PROFILE 90X90	TUMBLER ALUMINUM	290	90	90	15	10.50 (M10)	M16	SA403026
FEET BASE PROFILE 90X90	ZAMA	482	90	90	16	10.50 (M12)	M10	SA403027
FEET BASE PROFILE 90X90	ZAMA	480	90	90	16	10.50 (M12)	M12	SA403028
FEET BASE PROFILE 90X90	ZAMA	471	90	90	16	10.50 (M12)	M16	SA403029

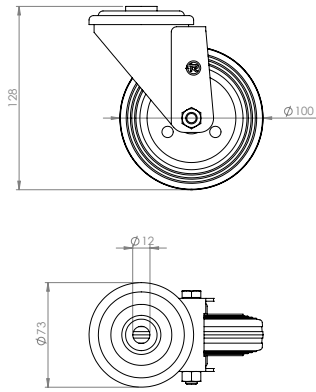
## 5.4 PLASTIC FEET WITH STEEL SWIVEL 30°



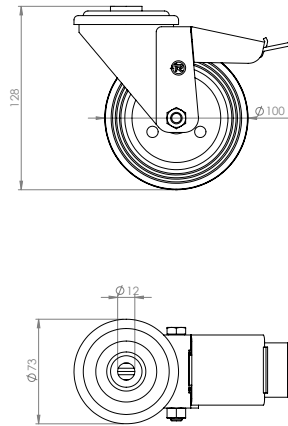
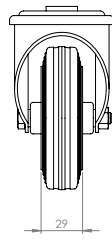
\* Anchorable to the ground with M8 screw (after drilling)

DESCRIPTION	DIMENSION (mm)								STATIC LOAD (N)	CODE	
	A mm	B mm	D mm	KEY mm	F mm	G mm	H mm	H1 mm		STANDARD	ANTISLIP
BASE Ø 40 M8x75	27	75	40	12	M8	16,5	102	105	10000	SA404001	SA404002
BASE Ø 40 M10x100	27	100	40	12	M10	16,5	127	130	10000	SA404003	SA404004
BASE Ø 40 M12x100	27	100	40	12	M12	16,5	127	130	10000	SA404005	SA404006
BASE Ø 65 M10x100	33	100	65	14	M10	23	133	136	11000	SA404007	SA404008
BASE Ø 65 M12x100	33	100	65	14	M12	23	133	136	11000	SA404009	SA404010
BASE Ø 65 M16x100	33	100	65	16	M16	23	133	136	15000	SA404011	SA404012
BASE Ø 83 M10x100	38	100	83	14	M10	27	138	141	15000	SA404013*	SA404014*
BASE Ø 83 M12x100	38	100	83	14	M12	27	138	141	15000	SA404015*	SA404016*
BASE Ø 83 M16x100	38	100	83	16	M16	27	138	141	20000	SA404017*	SA404018*

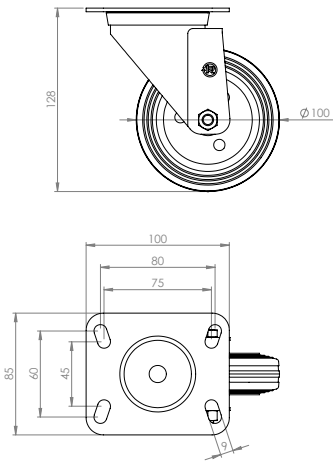
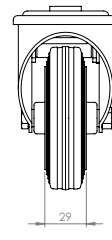
## 5.5 CASTOR



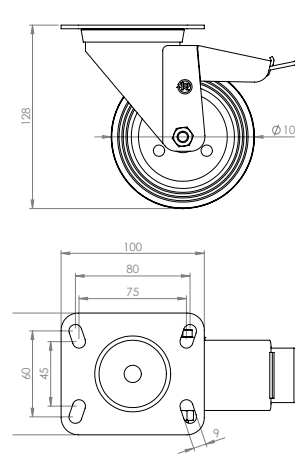
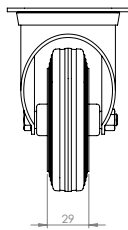
SA405001



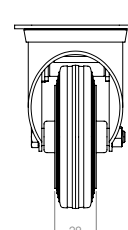
SA405002



SA405003



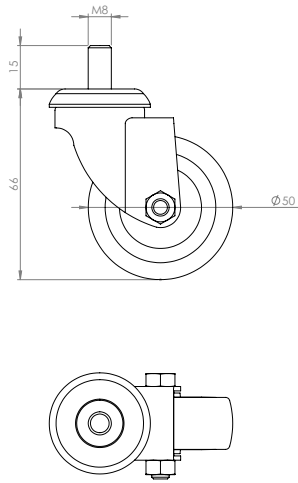
SA405004



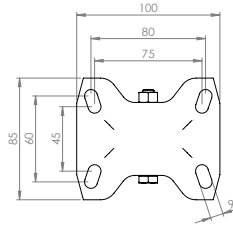
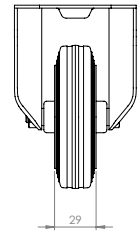
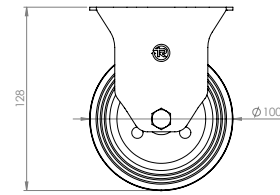
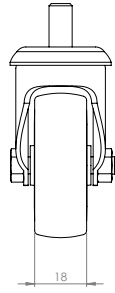
DESCRIPTION	MATERIAL	WEIGHT (g)	LOAD	CODE
SWEIVEL CASTOR Ø 100	STEEL/RUBBER	740	800 N	SA405001
SWEIVEL CASTOR Ø 100 AND BRAKE	STEEL/RUBBER	940	800 N	SA405002
CASTOR Ø 100 WITH SWEIVEL PLATE	STEEL/RUBBER	820	800 N	SA405003
CASTOR Ø 100 WITH BRAKE AND SWEIVEL PLATE	STEEL/RUBBER	1000	800 N	SA405004



## 5.5 CASTOR

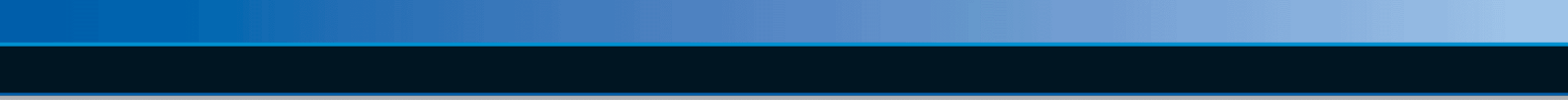


SAMA 1324



SAMA 1329

DESCRIPTION	MATERIAL	WEIGHT (g)	LOAD (4 Km/h)	CODE
SWEIVEL CASTOR Ø 50 AND M8 PIN	STEEL/RUBBER	180	350 N	SA405005
CASTOR Ø 100 WITH FIXED PLATE	STEEL/RUBBER	620	800 N	SA405006



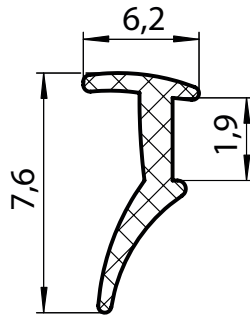




PANEL INSTALLATION ACCESSORIES

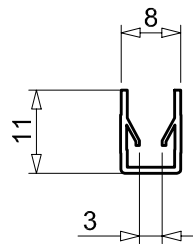
6

## 6.1 GASKET SERIES 20 SLOT A



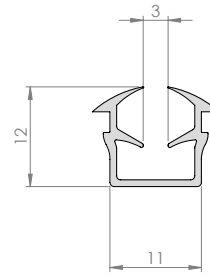
PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
2-3	BLACK	TPE RUBBER	16	SA501001

## 6.2 GASKET SERIES 30 SLOT B



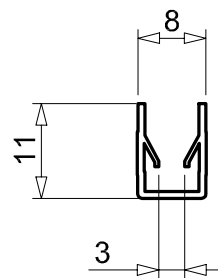
PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
3	BLACK	TPE RUBBER	64	SA501002
4	BLACK	TPE RUBBER	50	SA501003
5	BLACK	TPE RUBBER	50	SA501004
NET DIAMETER 3 mm	BLACK	HARD PVC	44	SA501005

### 6.3 GASKET SERIES 30 SLOT C



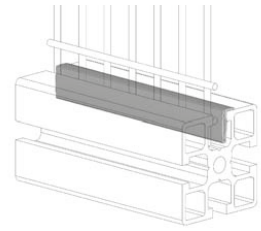
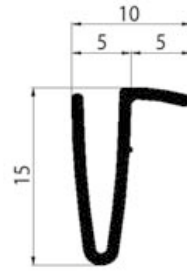
PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
3	BLACK	SOFT PVC	96	SA501006N
3	GREY	SOFT PVC	96	SA501006G
4	BLACK	SOFT PVC	96	SA501006N
4	GREY	SOFT PVC	96	SA501006G
5	BLACK	SOFT PVC	57	SA501007N
5	GREY	SOFT PVC	57	SA501007G
6	BLACK	SOFT PVC	57	SA501007N
6	GREY	SOFT PVC	57	SA501007G
NET DIAMETER 3 mm	BLACK	HARD PVC	54	SA501008N
NET DIAMETER 3 mm	GREY	HARD PVC	54	SA501008G

### 6.4 GASKET SERIES 40 SLOT D



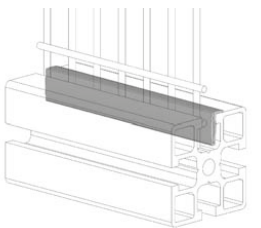
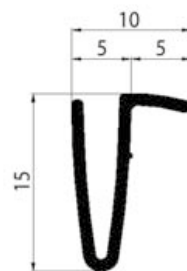
PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
3	BLACK	TPE RUBBER	50	SA501009
4	BLACK	TPE RUBBER	50	SA501010
5	BLACK	TPE RUBBER	34	SA501011
NET DIAMETER 3 mm	BLACK	HARD PVC	44	SA501005

## 6.5 GASKET SERIES 45 SLOT E



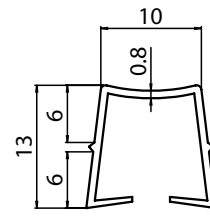
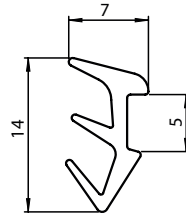
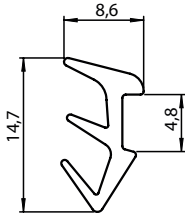
PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
3	BLACK	TPE RUBBER	50	SA501009
4	BLACK	TPE RUBBER	50	SA501010
5	BLACK	TPE RUBBER	34	SA501011
NET DIAMETER 3 MM	GREY	HARD PVC	58,5	SA501012

## 6.6 GASKET SERIES 45 SLOT F



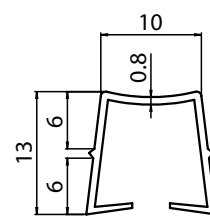
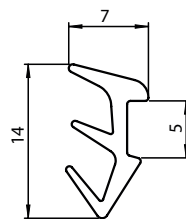
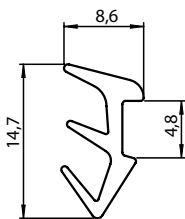
PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
3	BLACK	TPE RUBBER	50	SA501009
4	BLACK	TPE RUBBER	50	SA501010
5	BLACK	TPE RUBBER	34	SA501011
NET DIAMETER 3 MM	GREY	HARD PVC	58,5	SA501012

## 6.7 GASKET SERIES 45 SLOT G



PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
4	BLACK	TPE RUBBER	53	SA501013
5	BLACK	TPE RUBBER	53	SA501013
6	BLACK	HARD PVC	40	SA501014
NET DIAMETER 3 MM	BLACK	HARD PVC	34	SA501015

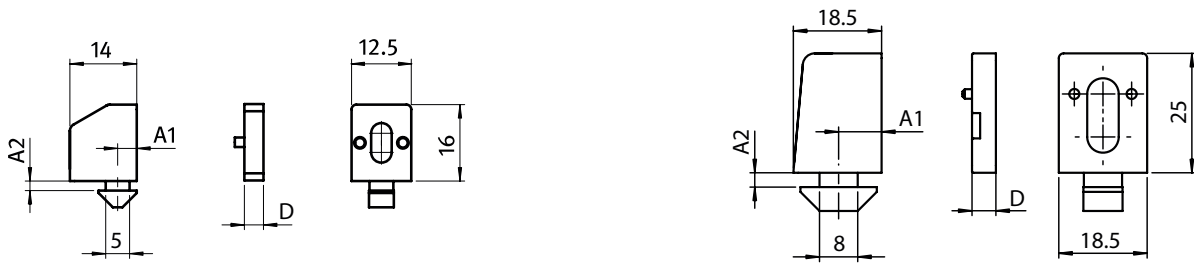
## 6.8 GASKET SERIES 45 SLOT H



PANEL THICKNESS (mm)	COLOUR	MATERIAL	WEIGHT (g)	CODE
4	BLACK	TPE RUBBER	53	SA501013
5	BLACK	TPE RUBBER	53	SA501013
6	BLACK	HARD PVC	40	SA501014
NET DIAMETER 3 MM	BLACK	HARD PVC	34	SA501015

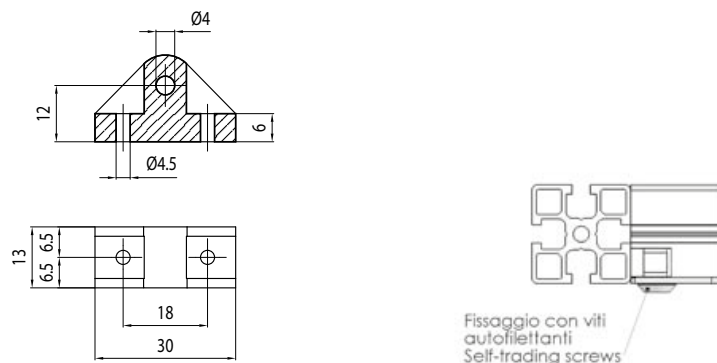


## 6.9 PANEL INSTALLATION ELEMENTS



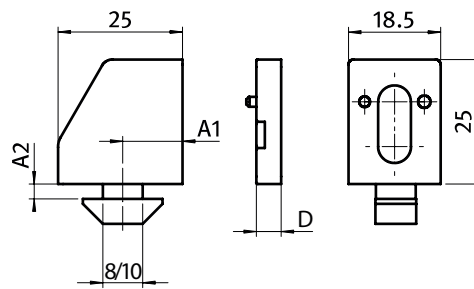
SLOT	SCREW	DIMENSION (mm)			WEIGHT (g)	CODE
		A1	A2	D		
A	M4	4	1,6		2,6	SA502001
				1	0,5	SA502002*
				2	0,8	SA502003*
				3	1,3	SA502004
				4	1,8	SA502005
B	M4	7	1,9		8,3	SA502006
B	M5	7	1,9		8,4	SA502007
B	M6	7	1,9		8,6	SA502008
				2	1	SA502009*
				3	1,2	SA502010
				5	2,1	SA502011

\*Not overlapping



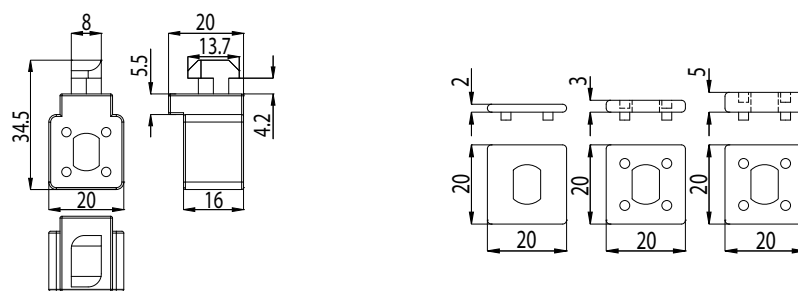
SLOT	SCREW	DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
C	M5	SCREEN STOPPER	GREY POLYAMIDE	4	SA502012
		WASHER	GREY POLYAMIDE	1	SA502013

## 6.9 PANEL INSTALLATION ELEMENTS



SLOT	SCREW	DIMENSION (mm)			WEIGHT (g)	CODE
		A1	A2	D		
D	M4	12	4,4		9,8	SA502014
D	M5	12	4,4		9,7	SA502015
D	M6	12	4,4		9,6	SA502016
F	M4	14	4,6		10	SA502017
F	M5	14	4,6		9,9	SA502018
F	M6	14	4,6		9,8	SA502019
H	M4	14	6		10,4	SA502020
H	M5	14	6		10,3	SA502021
H	M6	14	6		10,2	SA502022
				2	1	SA502009*
				3	1,2	SA502010
				5	2,1	SA502011

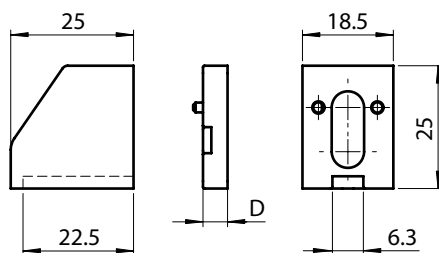
\*Not overlapping



SLOT	SCREW	COLOUR	MATERIAL	WEIGHT (g)	CODE
E	M6	GREY POLYAMIDE		10	SA502023
		BLACK POLYAMIDE	2	1	SA502024*
		BLACK POLYAMIDE	3	1	SA502025
		BLACK POLYAMIDE	5	2	SA502026

\*Not overlapping

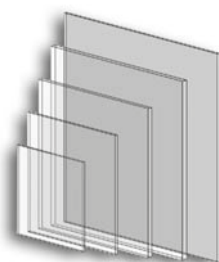
## 6.9 PANEL INSTALLATION ELEMENTS



SLOT	SCREW	MATERIAL	D (mm)	WEIGHT (g)	CODE
UNIVERSAL	M4	NYLON PA		10	SA502027
	M5	NYLON PA		10	SA502028
	M6	NYLON PA		10	SA502029
			2	1	SA502009*
			3	1,2	SA502010
			5	2,1	SA502011

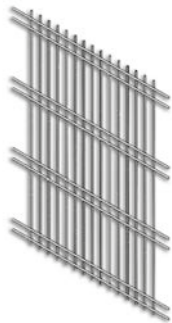
\*Not overlapping

## 6.10 PANEL TYPES - POLYCARBONATE

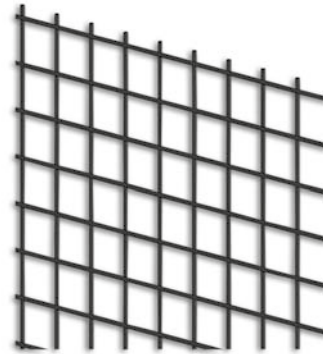


COLOUR	THICKNESS (mm)	PANEL MAX DIMENSIONS (mm)	WEIGHT (Kg/m <sup>2</sup> )	CODE
TRANSPARENT	3	2050x3050	3,6	SAL 3
TRANSPARENT	4	2050x3050	4,8	SAL 4
TRANSPARENT	5	2050x3050	6	SAL 5
FUME*	3	2050x3050	3,6	SAL 3F
FUME*	4	2050x3050	4,8	SAL 4F

## 6.12 GALVANIZED AND PAINT ELECTROWELDED NET

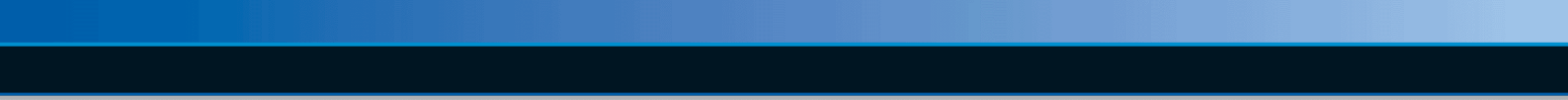


SARZ-SARZAQ



SARV

DESCRIPTION	COLOUR	D WIRE	PANEL MAX DIMENSIONS (mm)	WEIGHT (Kg/m <sup>2</sup> )	CODE
GALVANIZED ELECTROWELDED NET TEC 15X105	ZINC PLATED STEEL	Ø 3 mm	1240x2400	4,9	SARZ
GALVANIZED ELECTROWELDED NET TEC 15X105	ZINC PLATED STEEL	Ø 3 mm	1240x2400	4,9	SARZAQ
PAINTED NET 30X30	YELLOW RAL1018	Ø 3 mm	1200x2400 / 1000x2000	3,8	SARV





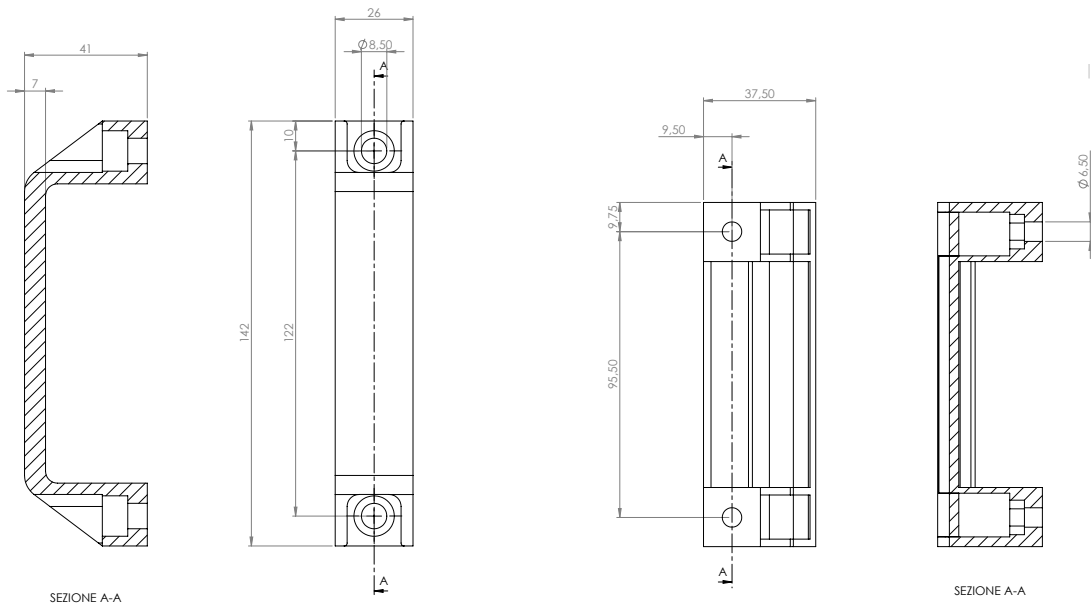


DOORS AND PANELS ACCESSORIES





## 7.1 HANDLES



SA601001

SA601002

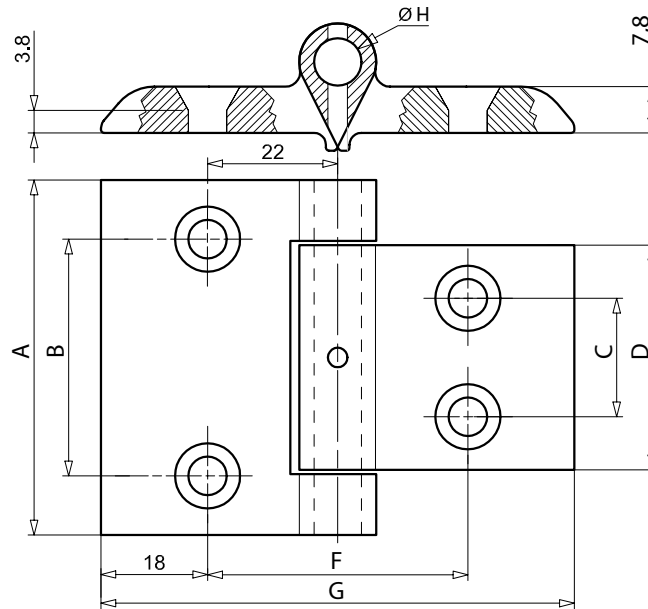
DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
HANDLES	PA	44	SA601001
SAFETY HANDLES	PA	33	SA601002

## 7.2 LOCKS



DESCRIPTION	MATERIAL	WEIGHT (g)	CODE
KEY LOCK	ZINC PLATED STEEL	560	SA601003

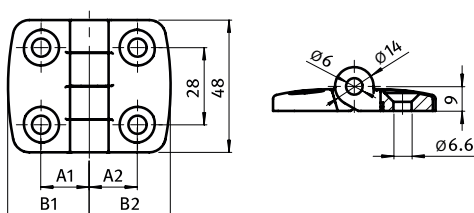
## 7.3 HINGES



\*HINGE FOR PIN D.8 mm MICRO

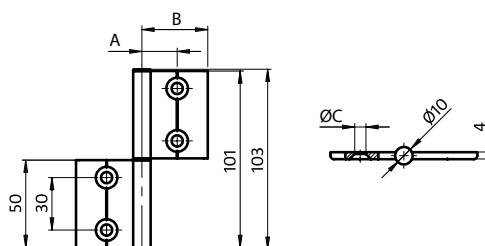
DESCRIPTION	DIMENSION (mm)								CODE
	A	B	C	D	E	F	G	H	
HINGE FOR FRAME PROFILES	60	44	20	38	17	31	60	7	SA602001
HINGE FOR FRAME PROFILES	60	44	20	38	17	31	60	8	SA602002*
HINGE FOR 30X30 PROFILES	60	40	20	38	17	34	60	7	SA602003
HINGE FOR 40X30 PROFILES	60	40	20	38	22	39	70	7	SA602004
HINGE FOR 40X40 PROFILES	60	40	20	38	22	44	80	7	SA602005
HINGE FOR 40X40 PROFILES	60	40	20	38	22	44	80	8	SA602006*
HINGE FOR 40 X PROFILES	60	40	20	38	22	36,25	69,8	7	SA602007
HINGE FOR 40 X PROFILES	60	40	20	38	22	36,2	69,8	8	SA602008*
HINGE FOR 45X45 PROFILES	60	40	20	38	24,5	49	80	7	SA602009
HINGE FOR 45X45 PROFILES	60	40	20	38	24,5	49	80	8	SA602010*

## 7.3 HINGES



DESCRIPTION	MATERIAL	DIMENSION (mm)				WEIGHT (g)	CODE
		A1	A2	B1	B2		
HINGES FOR 30X30 PROFILES	ANODIZED ALUMINUM	17,5	17,5	29,5	29,5	65	SA602011
HINGES FOR 30X40 PROFILES	ANODIZED ALUMINUM	17,5	22,5	29,5	36	67	SA602012
HINGES FOR 30X45 PROFILES	ANODIZED ALUMINUM	17,5	25	29,5	43,5	69	SA602013
HINGES FOR 40X40 PROFILES	ANODIZED ALUMINUM	22,5	22,5	36	36	71	SA602014
HINGES FOR 40X45 PROFILES	ANODIZED ALUMINUM	22,5	25	36	43,5	71	SA602015
HINGES FOR 45X45 PROFILES	ANODIZED ALUMINUM	25	25	43,5	43,5	73	SA602016

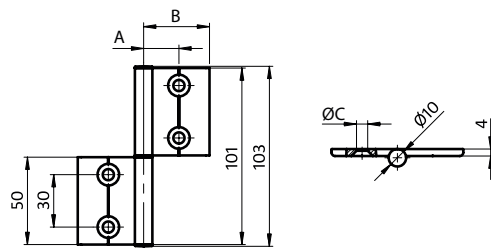
## 7.4 INNER HINGES



\*CAN BE SUPPLIED WITH STAINLESS STEEL JOURNAL AND PLASTIC CAP

DESCRIPTION	MATERIAL	DIMENSIONI (mm) DIMENSION (mm)			WEIGHT (g)	CODE
		A	B	C		
HINGE FOR 30X30	ANODIZED ALUMINUM	19,5	32	$\varnothing 6,4$	20	SA602017
HINGE FOR 40X40	ANODIZED ALUMINUM	25	42	$\varnothing 6,4$	25,3	SA602018
HINGE FOR 45X45	ANODIZED ALUMINUM	27	47	$\varnothing 6,4$	28	SA602019

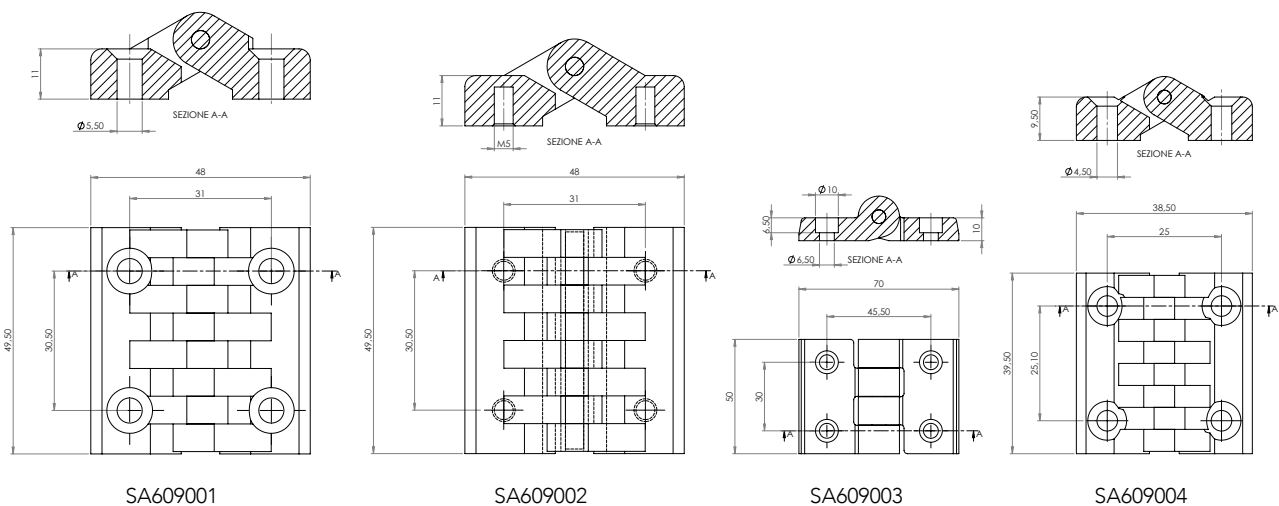
## 7.5 OUTER HINGES



\*CAN BE SUPPLIED WITH STAINLESS STEEL JOURNAL AND PLASTIC CAP

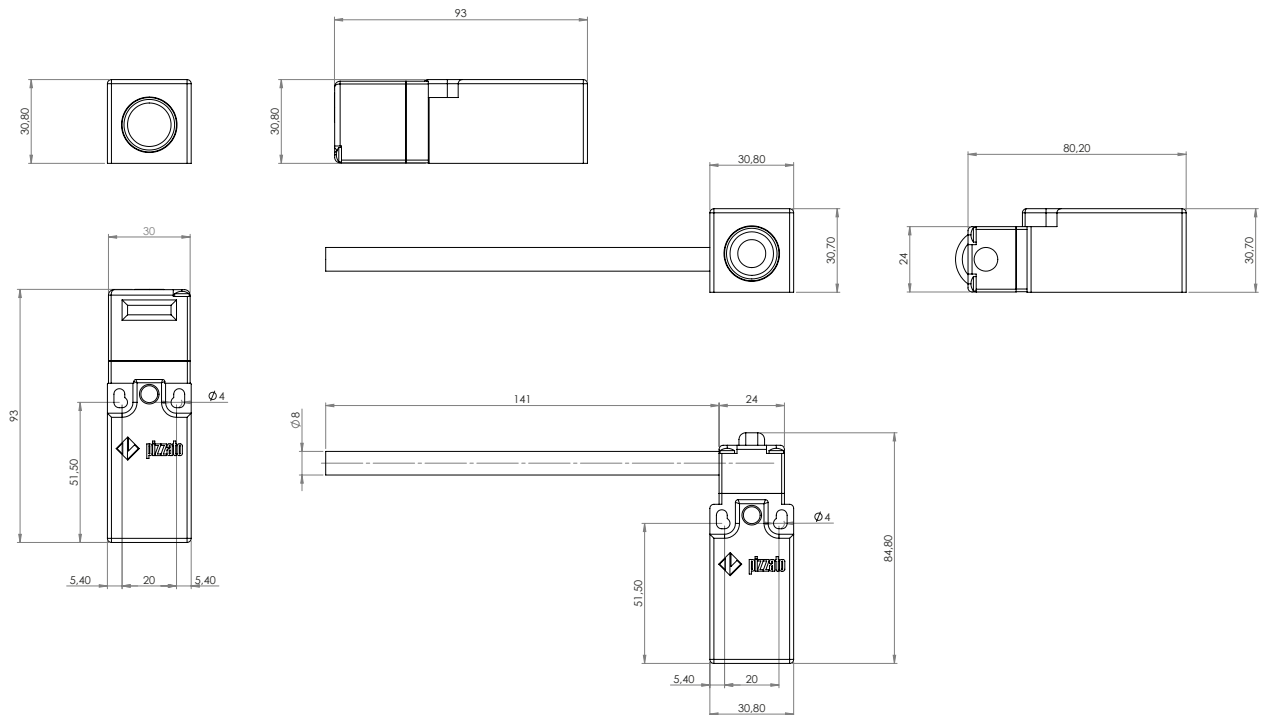
DESCRIPTION	MATERIAL	DIMENSION (mm)			WEIGHT (g)	CODE
		A	B	C		
HINGE FOR 30X30	ANODIZED ALUMINUM	15,2	27,7	Ø 6,4	18,2	SA602020
HINGE FOR 40X40	ANODIZED ALUMINUM	20,2	37,7	Ø 6,4	23,6	SA602021
HINGE FOR 45X45	ANODIZED ALUMINUM	22,7	42,7	Ø 6,4	26,3	SA602022

## 7.6 HINGES



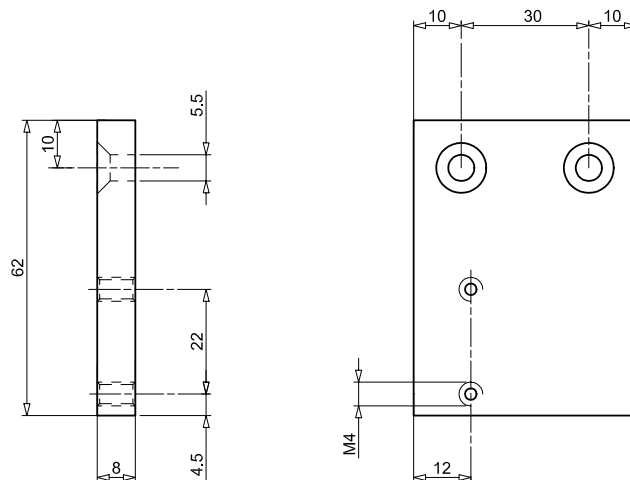
DESCRIPTION	MATERIAL	CODE
HINGE	STAINLESS STEEL-BLACK POLYAMIDE	SA609001
HINGE	STAINLESS STEEL-BLACK POLYAMIDE	SA609002
HINGE	STAINLESS STEEL-BLACK POLYAMIDE	SA609003
HINGE	STAINLESS STEEL-BLACK POLYAMIDE	SA609004

## 7.7 DOOR SECURITY SWITCHES



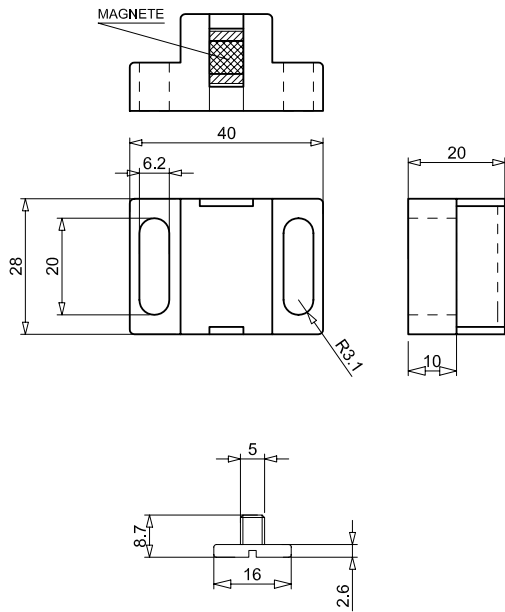
DESCRIPTION	CODE
KEY MICRO SWITCH	SA603001
D8 PIN MICRO SWITCH	SA603002

## 7.8 SUPPORT FOR DOOR SECURITY SWITCHES

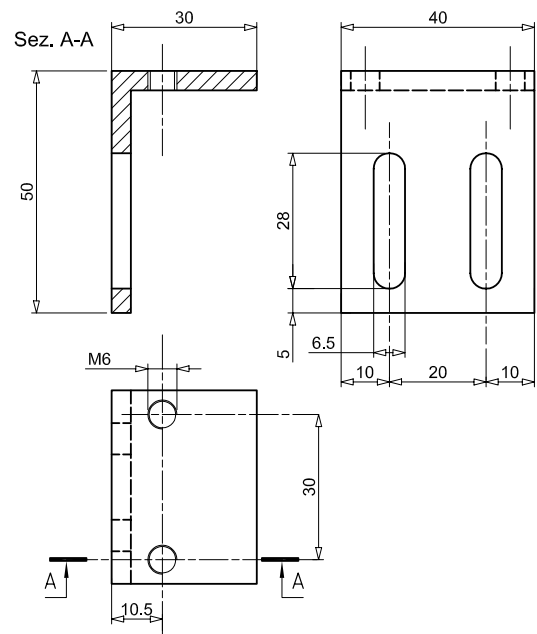


DESCRIPTION	MATERIAL	CODE
SUPPORT FOR KEY MICRO SWITCH	TUMBLED ALUMINUM	SA603003

## 7.9 DOOR STOP



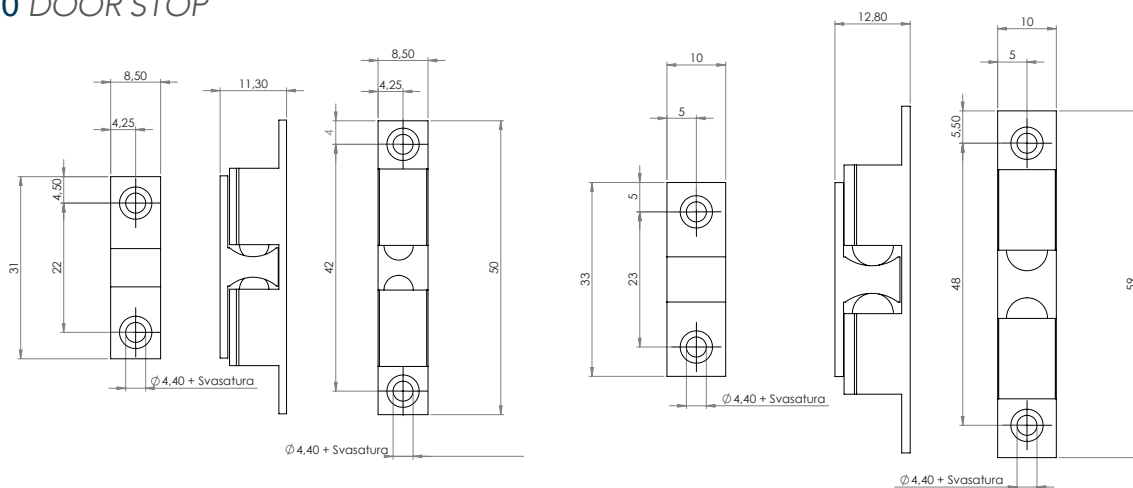
SA604001



SA604002

DESCRIPTION	MATERIAL	CODE
MAGNET		SA604001
MAGNET SUPPORT	ANODIZED ALUMINUM	SA604002

## 7.10 DOOR STOP

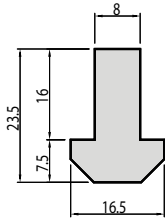


SA604003

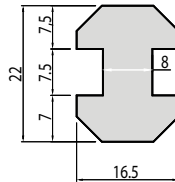
SA604004

DESCRIPTION	MATERIAL	CODE
DOOR STOP 9X49	BRASS	SA604003
DOOR STOP 12X57	BRASS	SA604004

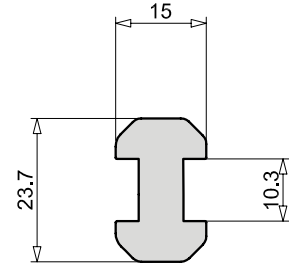
## 7.11 MULTIPURPOSE PROFILE SERIES 30 SLOT B



SA605001



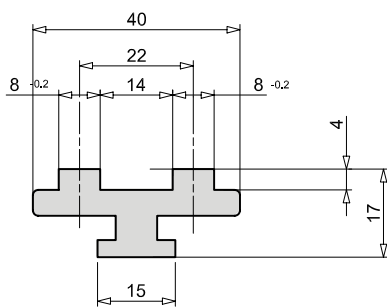
SA605002



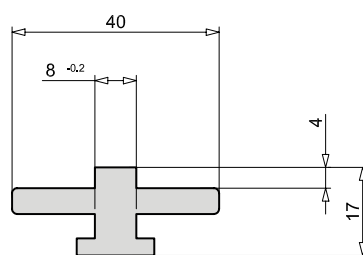
SA605003

DESCRIPTION	MATERIAL	LENGTH (mm)	WEIGHT (gr/m)	CODE
30 SLIDING GUIDE	BLACK POLYETHYLENE	2	258	SA605001
30 SLIDING GUIDE	BLACK POLYETHYLENE	2	293	SA605002
30-30 AND 30-40 SLIDING GUIDE	BLACK POLYETHYLENE	3	233	SA605003

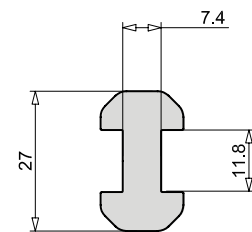
## 7.12 MULTIPURPOSE PROFILE SERIES 40 SLOT D



SA605004



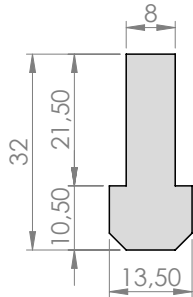
SA605005



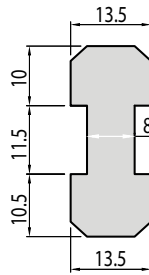
SA605006

DESCRIPTION	MATERIAL	LENGTH (mm)	WEIGHT (gr/m)	CODE
40 SLIDING GUIDE WITH 2 20X32	BLACK POLYETHYLENE	3	333	SA605004
40 SLIDING GUIDE WITH 20X32	BLACK POLYETHYLENE	3	300	SA605005
40 WITH 40 SLIDING GUIDE	BLACK POLYETHYLENE	3	300	SA605006

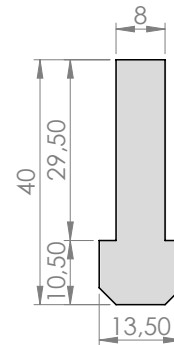
### 7.13 MULTIPURPOSE PROFILE SERIES 45 SLOT E



SA605007



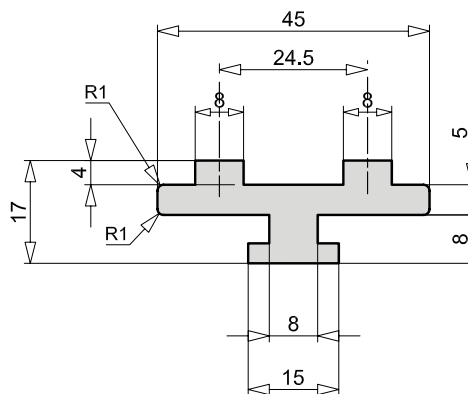
SA605008



SA605009

DESCRIPTION	MATERIAL	LENGTH (mm)	WEIGHT (gr/m)	CODE
SLIDING GUIDE	BLACK POLYETHYLENE	2	605	SA605007
SLIDING GUIDE	BLACK POLYETHYLENE	2	390	SA605008
SLIDING GUIDE	BLACK POLYETHYLENE	2	718	SA605009

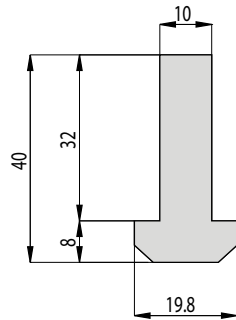
### 7.14 MULTIPURPOSE PROFILE SERIES 45 SLOT F



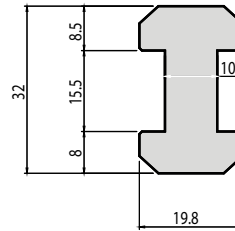
DESCRIPTION	MATERIAL	LENGTH (mm)	WEIGHT (gr/m)	CODE
SLIDING GUIDE SLOT F	BLACK POLYETHYLENE	3	444	SA605010



## 7.15 MULTIPURPOSE PROFILE SERIES 45 SLOT G

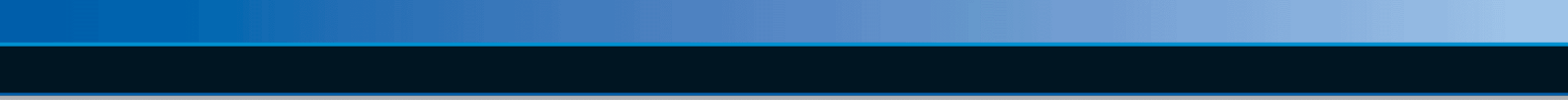


SA605011



SA605012

DESCRIPTION	MATERIAL	LENGTH (mm)	WEIGHT (gr/m)	CODE
SLIDING GUIDE	BLACK POLYETHYLENE	2	750	SA605011
SLIDING GUIDE	BLACK POLYETHYLENE	2	503	SA605012





Lined area for notes.

NOTE



Lined writing area for notes.

NOTE



Lined writing area with horizontal lines.

NOTE



Lined area for notes, consisting of numerous horizontal lines across the page.

Lined writing area for notes.

NOTE





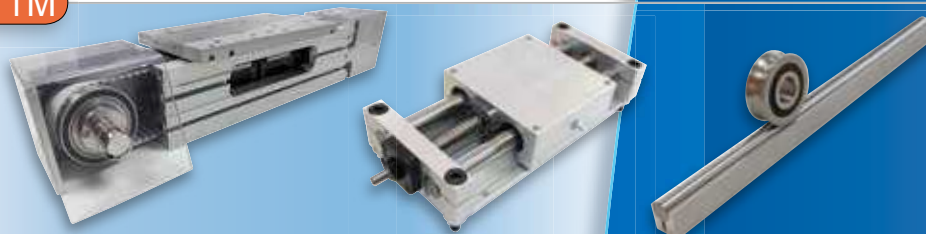
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- Tables linéaires
- Modules linéaires



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- Arbres de précision
- Douilles à billes
- Paliers avec douilles à billes
- Douilles à billes à couple résistant



### CATALOGUE GLF-1R

- Guidages linéaires à billes
- Guidages aluminium à billes
- Vis à billes
- Vis trapézoïdales



### CATALOGUE GLF-1C

- Composants : rotules et galets



### CATALOGUE GLF-1P

- **Prochainement** : les profilés aluminium



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