

# MILPASS

s.r.l.

**Costruzione protezioni  
antifortunistiche per  
macchine automatiche**

***Construction of safety  
guards for automatic  
machines***

**Construction équipements  
protection contre les accidents  
pour machines automatiques**

**Catalogo Generale  
*General Catalogue*  
Catalogue Général**

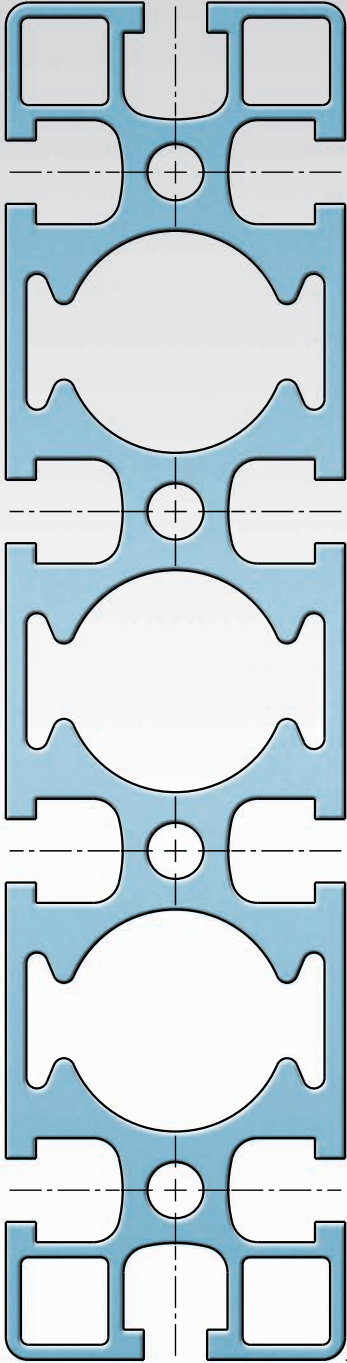
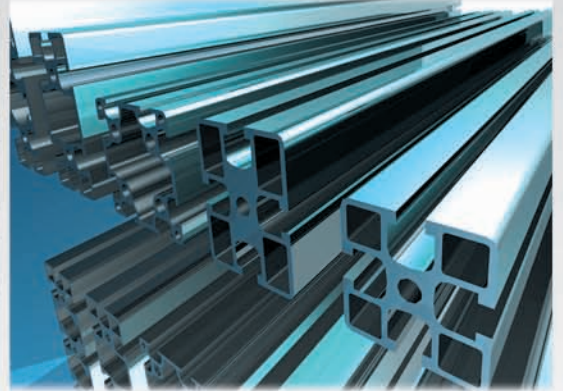
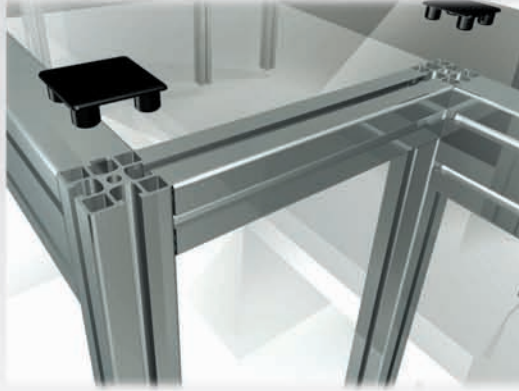
**Linea STRUTTURALE  
*STRUCTURAL Line***



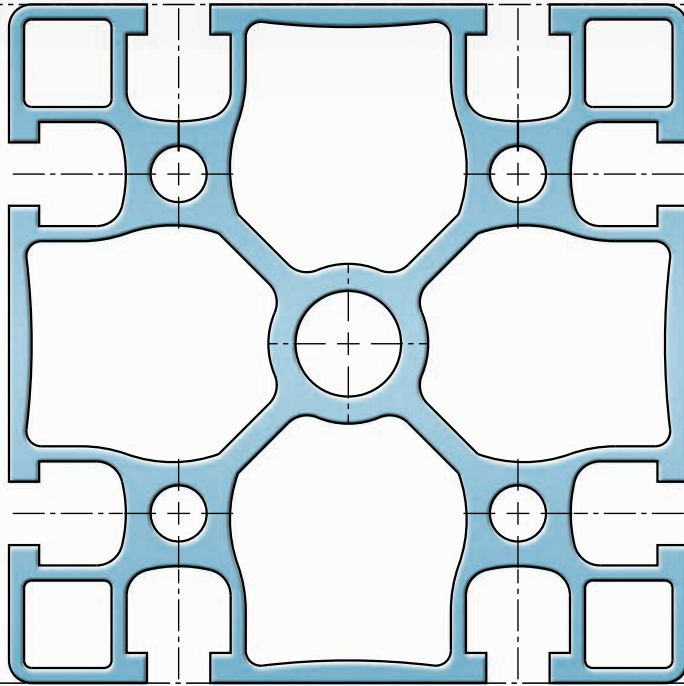


MILPASS

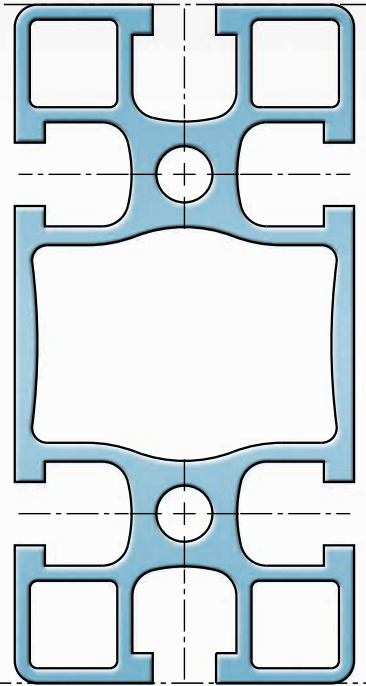
PROFILATI ESTRUSI IN ALLUMINIO ANODIZZATO (cava 8)  
ANODISED EXTRUDED ALUMINIUM PROFILES (slot: 8)



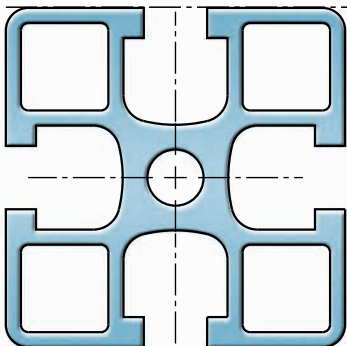
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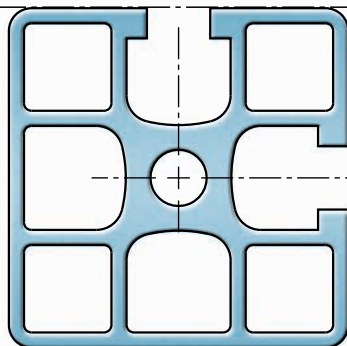
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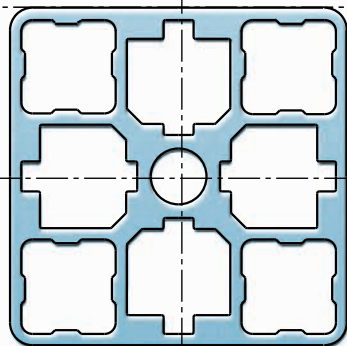
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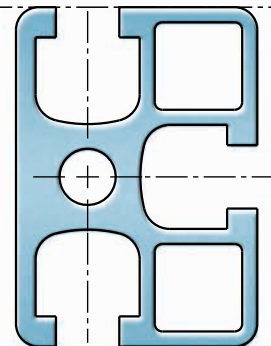
Code SA01001



Code SA02005



Code SA03001



Code SA02004

MILPASS presenta la sua linea di **profili strutturali**, un'ottima alternativa alle tradizionali carpenterie in ferro per la versatilità e le caratteristiche del sistema stesso:

- sezioni studiate per velocizzare gli assemblaggi
- completezza degli accessori
- un rapporto tempo/lavoro non eguagliabile con altri materiali
- finiture esteticamente curate senza particolari lavorazioni aggiuntive (nessuna saldatura o verniciatura)
- massima modularità ed adattabilità per i progettisti
- perfetta integrazione con le nostre protezioni, con i sistemi di automazione, movimentazione o imballaggio in genere

I nostri profili ed i relativi accessori sono utilizzabili in ogni settore in cui è richiesta la progettazione di:

- strutture portanti
- tavoli da lavoro
- nastri trasportatori per linee di confezionamento o convogliamento
- sistemi automatizzati
- linee di montaggio
- strutture complesse in genere

I profili possono essere forniti in barre o tagliati a misura per commesse rilevanti.

I nostri reparti di montaggio, inoltre, possono realizzare l'assemblaggio di qualsiasi struttura richiesta da nostro o Vostro progetto.

MILPASS presents its line of **structural profiles**, the ideal alternative to traditional iron structural systems because of the system's versatility and excellent features:

- sections designed to speed up assembly and installation
- completeness of the range of accessories
- a time/work ratio which cannot be matched using other materials
- lovely finishes without any need for extra work (no welding or painting)
- total modularity and adaptability for the designers
- perfect integration with our protections/guards and with automation, movement, handling and packaging systems in general

Our profiles and relative accessories can be used in any sector which requires the design of:

- support structures
- work tables
- conveyor belts for packaging or conveyor lines
- automated systems
- assembly lines
- complex structures in general

The profiles can be supplied in bars or cut to size for big orders.

Our assembly departments can also assemble any structure required by our/your design details.

180

90

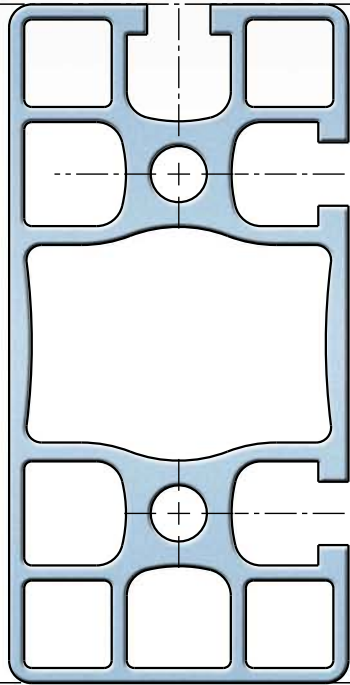
60

0

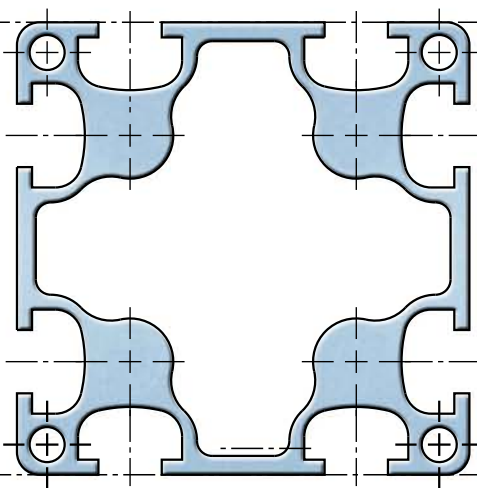
45

32

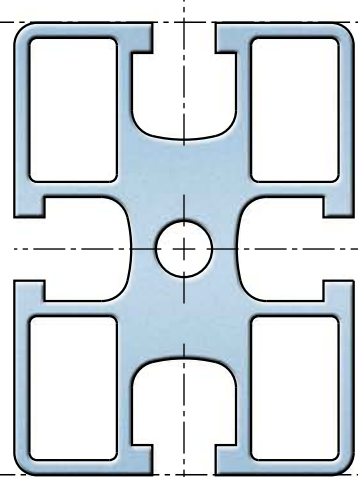
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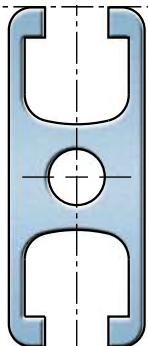
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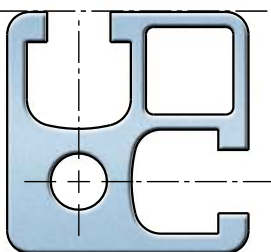
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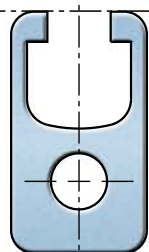
Code SA01002



Code SA02002



Code SA02003



Code SA02001

**PROFILI ESTRUSI IN ALLUMINIO, cava 8 mm a profilo aperto o semichiuso**

**Materiali e caratteristiche:**

- Lega di alluminio Al Mg 0,5 Si 0,4 Fe UNI 9006/1
- Trattamento superficiale in anodizzazione anodica 10-15 micron
- Lunghezza barre, 6100 mm

**Caratteristiche meccaniche:**

- Carico unitario di rottura a trazione Rm, 250 N/mm<sup>2</sup>
- Carico unitario di scostamento della proporzionalità Rp 0,2, 200 N/mm<sup>2</sup>
- Allungamento, 10%
- Durezza Brinnel, 70HB

**Caratteristiche fisiche:**

- Massa volumica, 2,7 Kg/dm<sup>3</sup>
- Punto di fusione inferiore, circa 605 °C
- Modulo di elasticità, 70.000 N/mm<sup>2</sup>

**EXTRUDED ALUMINIUM PROFILES, slot 8 mm with profile open or semi-closed**

**Materials and characteristics:**

- Aluminium alloy Al Mg 0.5 Si 0.4 Fe UNI 9006/1
- Surface treatment in anodic anodizing 10-15 micron
- Bar length, 6100 mm

**Mechanical characteristics:**

- Ultimate tensile strength Rm, 250 N/mm<sup>2</sup>
- Proportionality deviation strength Rp 0.2, 200 N/mm<sup>2</sup>
- Elongation, 10%
- Hardness Brinnel, 70HB

**Physical characteristics:**

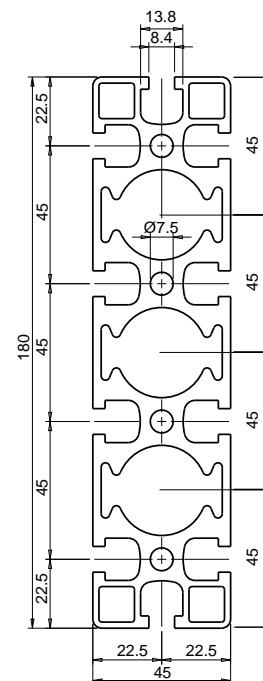
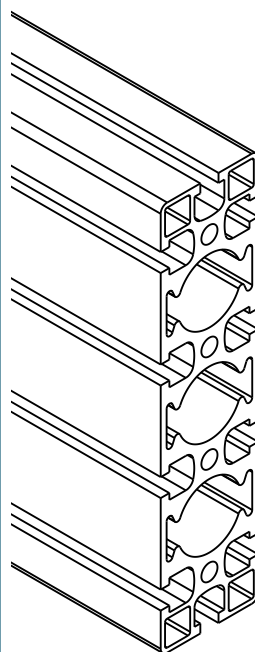
- Volume mass, 2.7 Kg/dm<sup>3</sup>
- Lower melting point, approx. 605 °C
- Modulus of elasticity, 70,000 N/mm<sup>2</sup>



**PROFILI ESTRUSI IN ALLUMINIO (scala 1:2,5)**

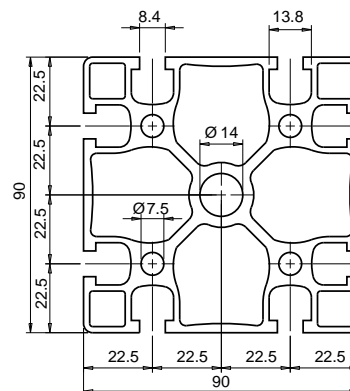
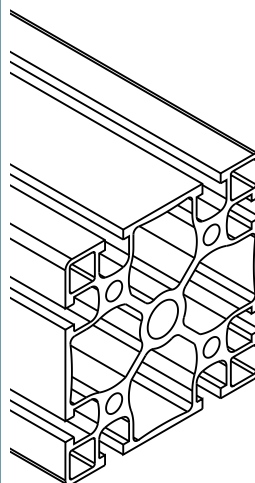
45 x 180

Code SA01006



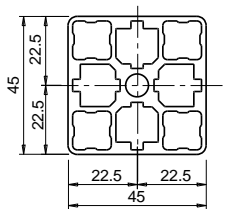
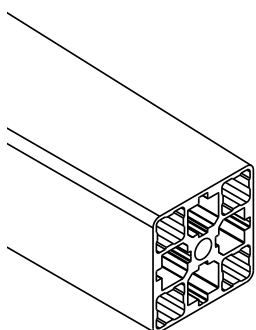
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Code SA01004



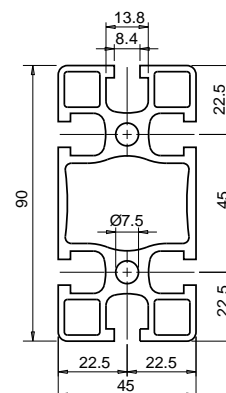
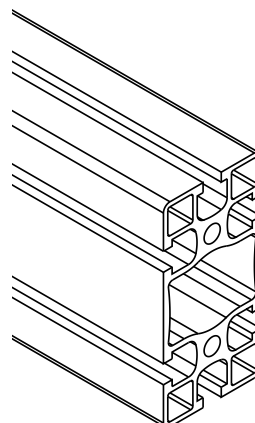
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Code SA03001



45 x 90

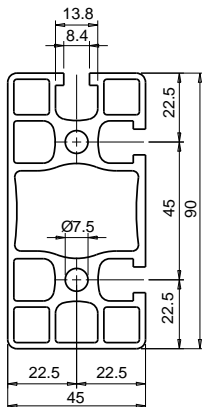
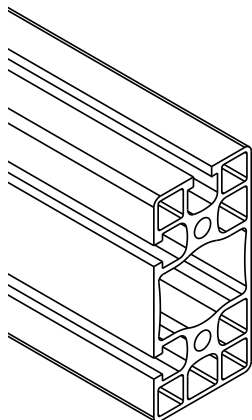
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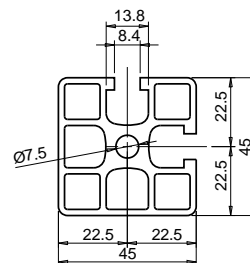
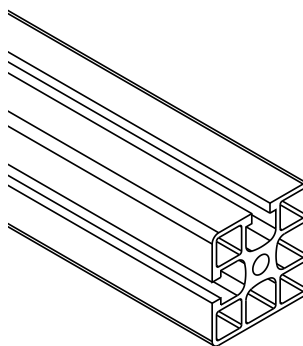
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Code SA02006



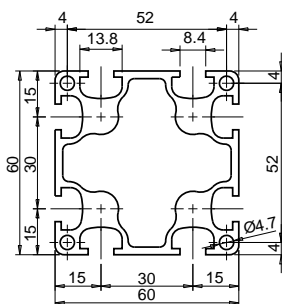
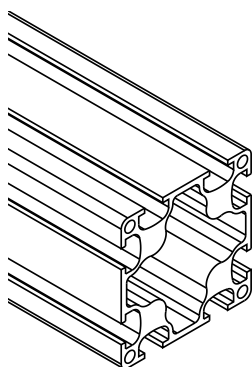
45 x 45

Code SA02005



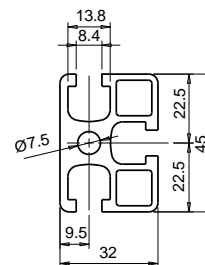
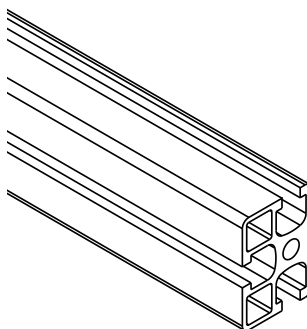
60 x 60 (cava ribassata/lowered slot)

Code SA01005



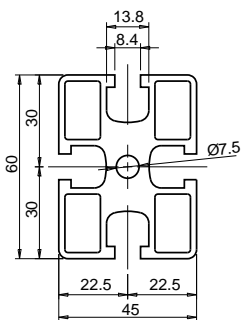
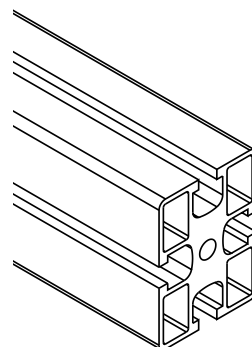
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Code SA02004



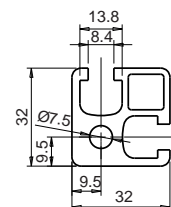
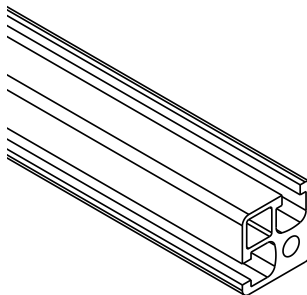
45 x 60

Code SA01002



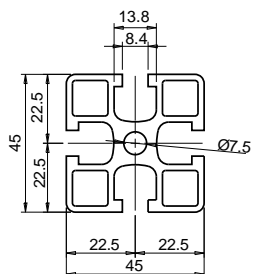
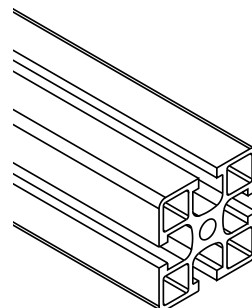
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Code SA02003



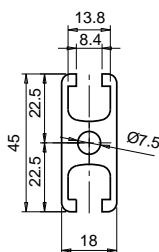
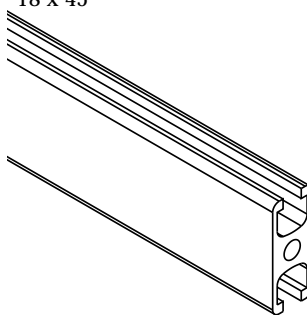
45 x 45

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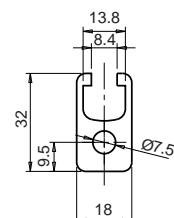
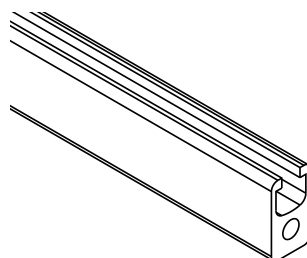
18 x 45

Code SA02002



18 x 32

Code SA02001



## Cuffie e profili di chiusura

Tutti i materiali vengono prodotti in poliammide "6" con materiale rinforzato a fibre di vetro.

**Struttura:** materiale termoplastico parzialmente cristallino

**Colore:** nero

### Caratteristiche meccaniche:

elevata resistenza alla fatica, resistenza all'usura e all'urto

Caratteristiche termiche:

VICAT (punto di rammollimento) 215 °C

### Resistenza a:

idrocarburi, benzina, oli e grassi, soluzioni alcaline in genere.

Buona resistenza all'invecchiamento

### Installazione:

si innestano sui profili con una semplice pressione e senza l'utilizzo di colla

## Casings and closure profiles

All materials are made of polyamide "6" with fibreglass reinforced material.

**Structure:** partially crystalline thermoplastic material

**Colour:** black

### Mechanical characteristics:

high resistance to fatigue, wearproof and shock resistant

Thermal characteristics: VICAT (softening point) 215 °C

### Resistance to:

hydrocarbons, petrol, oils and greases, alkaline solutions in general.

Good resistance to ageing

### Installation:

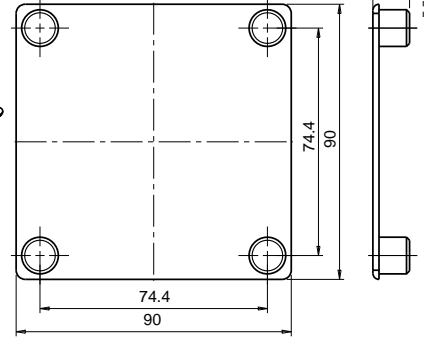
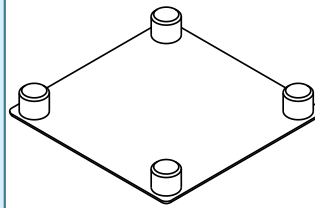
simply press to couple to profiles, no glue required



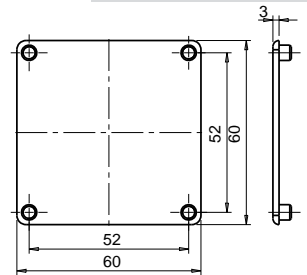
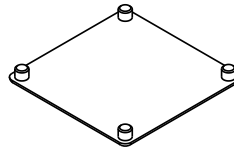
## CUFFIE E PROFILI DI CHIUSURA CASINGS AND CLOSURE PROFILES



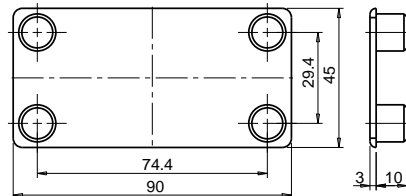
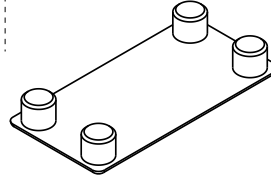
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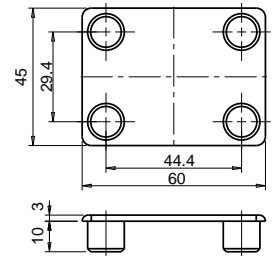
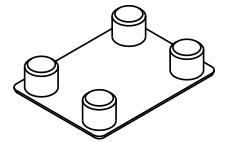
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Code SL01007

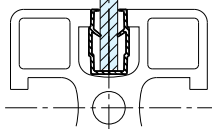
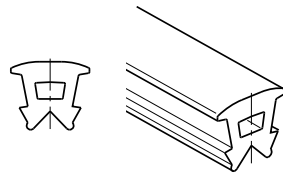
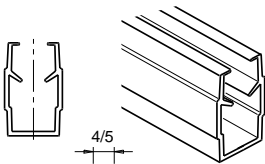


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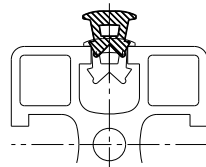


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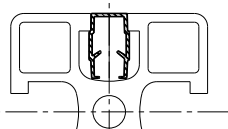
Code SF05000



Esempio di utilizzo per lastre  
Sheets use example



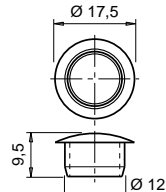
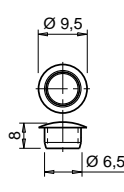
Profilo copricava morbido  
Sheets use example



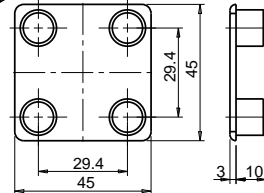
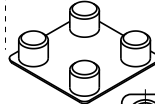
Esempio di utilizzo come copricava  
Copricava use example

Code SL01010

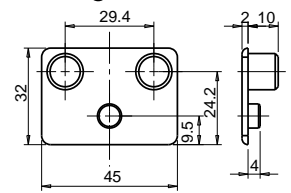
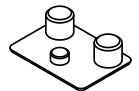
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Code SL01005



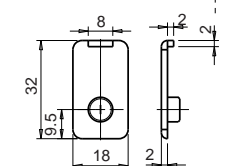
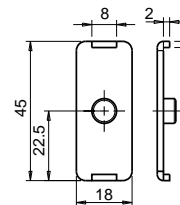
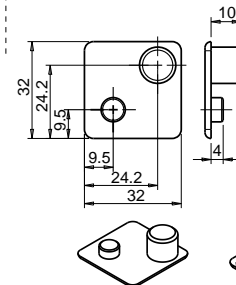
Code SL01004



Code SL01003

Code SL01002

Code SL01001



## Dadi, rondelle, viti

Tutti gli elementi di fissaggio sono in acciaio zincato.  
I dadi, nella versione normale o anticaduta, sono predisposti per essere inseriti nelle cave dei profili a struttura montata.

## Nuts, washers, screws

All fastening elements are made of galvanized steel.  
The nuts, in the normal or self-locking version, are prepared to be inserted in the profile slots once the structure is assembled.

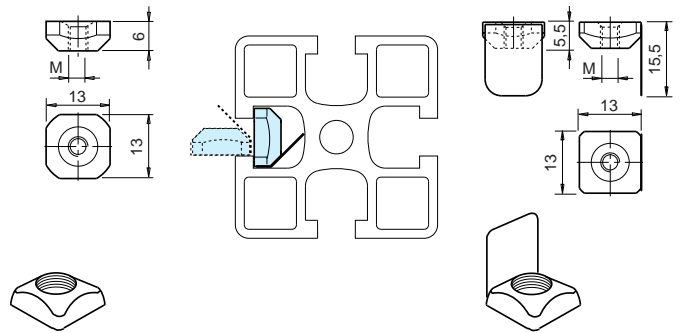


## ELEMENTI DI FISSAGGIO FASTENING ELEMENTS



Code  
SF01001 (M4)  
SF01002 (M5)  
SF01003 (M6)  
SF01004 (M8)

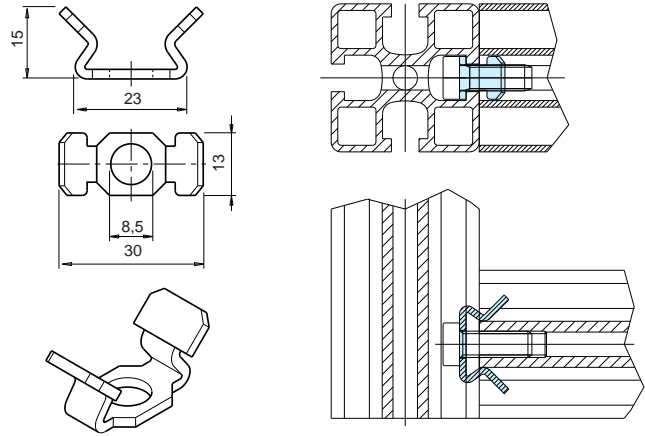
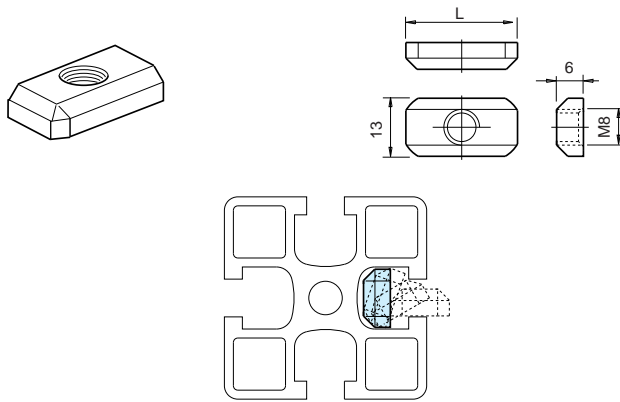
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SF01005 (M4)  
SF01006 (M5)  
SF01007 (M6)  
SF01008 (M8)



Code SF01012 (L 25)

Code SF01016 (L 42)

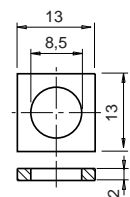
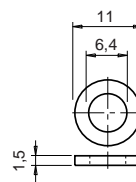
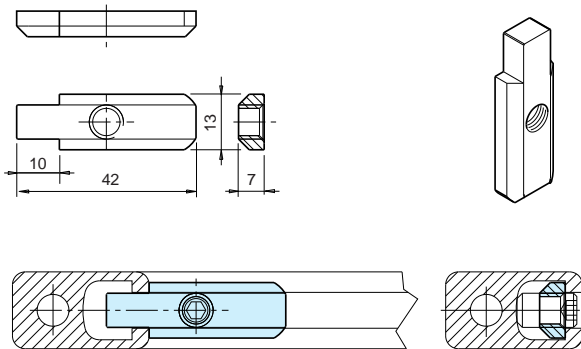
Code SF01017



Code SF01025

Code SF02002

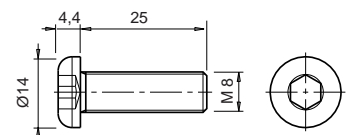
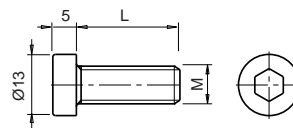
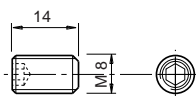
Code SF02001



Code  
SF03001 (M8 x 16)  
SF03002 (M8 x 20)  
SF03003 (M8 x 22)  
SF03004 (M8 x 45)

Code  
SF04001 (M8 x 25)

Code F11093



## Elementi di giunzione

### Materiali e caratteristiche:

- Lega di alluminio EN AB - Al Si 11 Cu2Fe "EN AB46100"
- Trattamento superficiale, nessuno
- Tutti i particolari sono burattati

### Caratteristiche meccaniche:

- Carico unitario di rottura a trazione Rm, 265-295 N/mm<sup>2</sup>
- Carico al limite di snervamento, 155-199 N/mm<sup>2</sup>
- Allungamento, 1-2%%
- Durezza Brinell, 85-100 HB

### Caratteristiche fisiche:

- Massa volumica, 2,7 Kg/dm<sup>3</sup>
- Punto di fusione inferiore, circa 505 °C
- Modulo di elasticità, 74.500 N/mm<sup>2</sup>

## Joint elements

### Materials and characteristics:

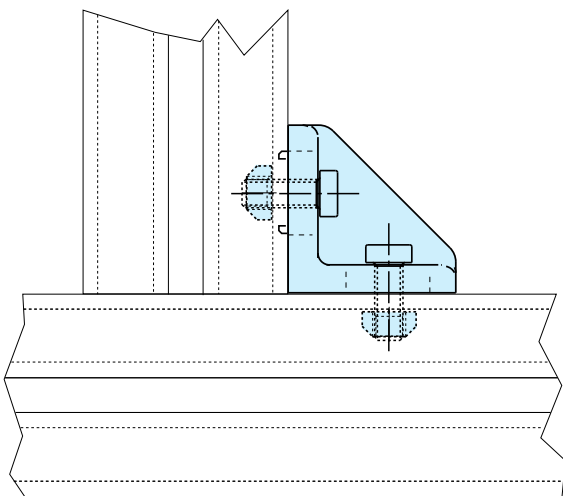
- Aluminium alloy EN AB - Al Si 11 Cu2Fe "EN AB46100"
- Surface treatment, none
- All parts are tumbled

### Mechanical characteristics:

- Ultimate tensile strength Rm, 265-295 N/mm<sup>2</sup>
- Load at yield point, 155-199 N/mm<sup>2</sup>
- Elongation, 1-2%%
- Hardness Brinell, 85-100 HB

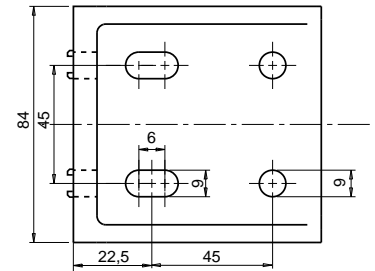
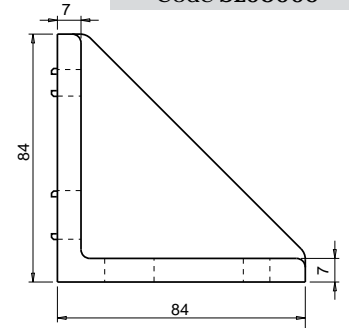
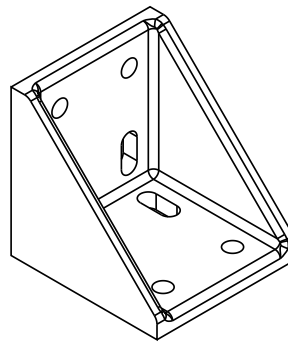
### Physical characteristics:

- Volume mass, 2.7 Kg/dm<sup>3</sup>
- Lower melting point, approx. 505 °C
- Modulus of elasticity, 74,500 N/mm<sup>2</sup>

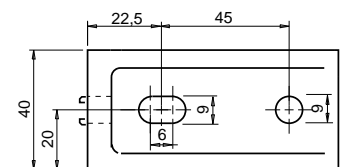
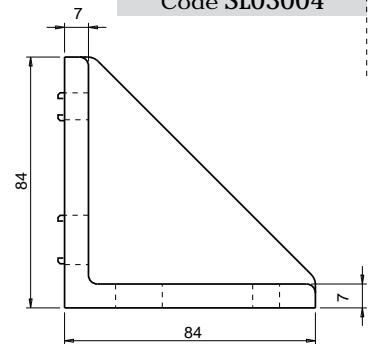
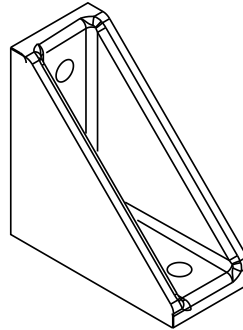


## ELEMENTI DI GIUNZIONE JOINT ELEMENTS

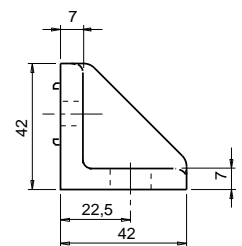
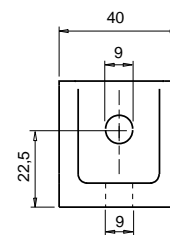
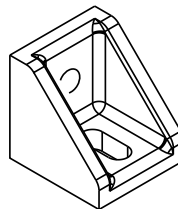
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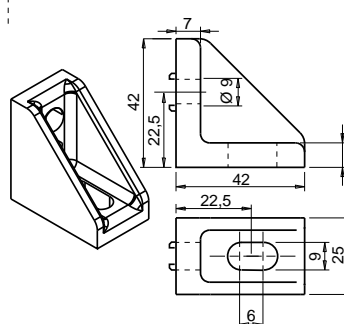
Code SL03004



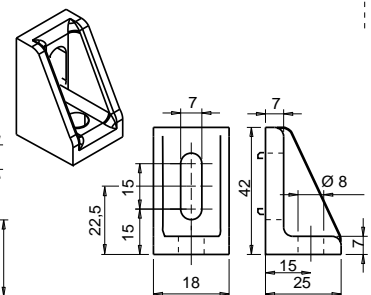
Code SL03003



Code SL03002

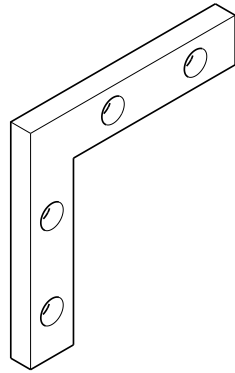
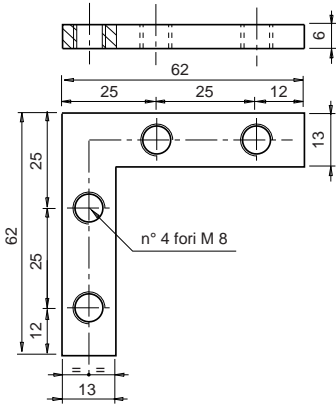


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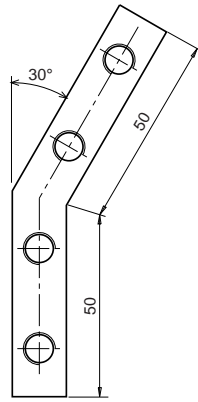




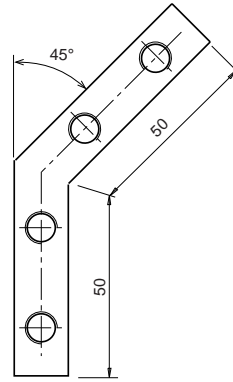
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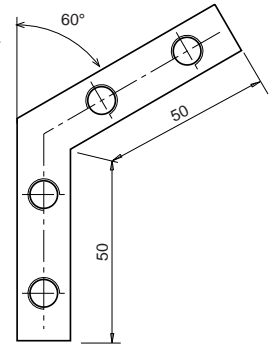
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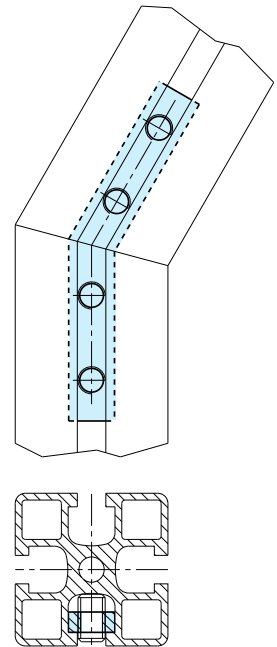
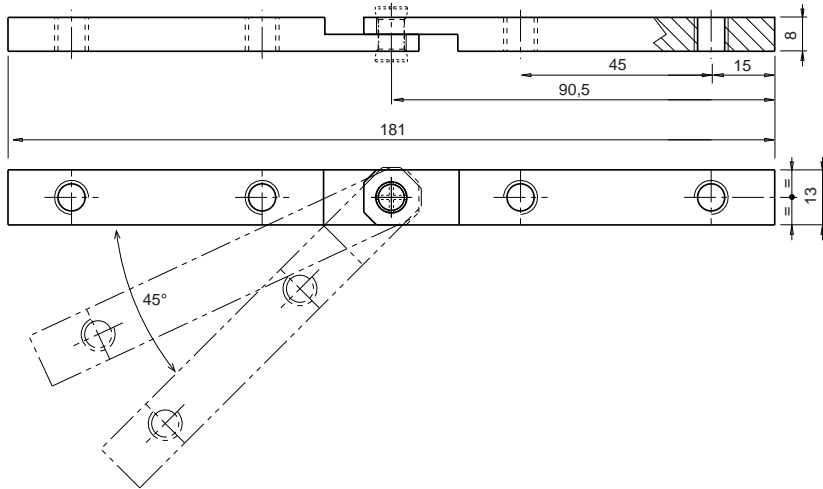
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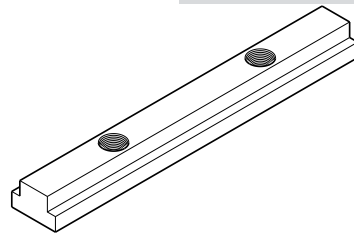
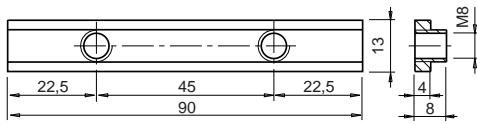
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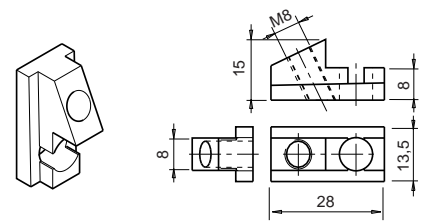
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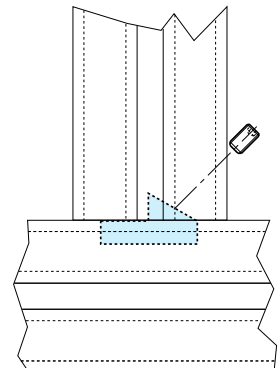
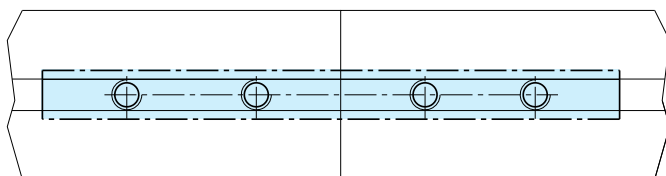
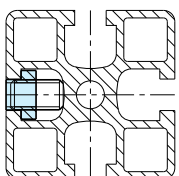
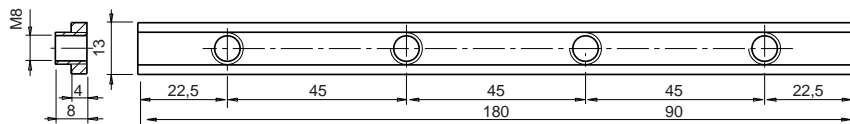
Code SF01018



Code SN05001



Code SF01019



## Elementi di sostegno e accessori

### Piedi:

- Base di appoggio realizzata in poliammide rinforzato
- La versione antivibrazione è dotata di un fondello in gomma resistente all'olio (durezza 70 Shore)

### Piastre per fissaggio piedi:

- In alluminio (lega Al Mg 0,5 Si 0,4 Fe UNI 9006/1)
- Trattamento superficiale: anodizzazione

### Basi di appoggio:

- In acciaio verniciate RAL 9007

## Support elements and accessories

### Feet:

- Support base made of reinforced polyamide
- The vibration-dampening version is fitted with an oil-resistant rubber base (hardness 70 Shore)

### Plates for fastening feet:

- Aluminium (alloy Al Mg 0.5 Si 0.4 Fe UNI 9006/1)
- Surface treatment: anodizing

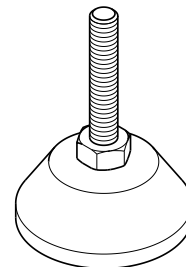
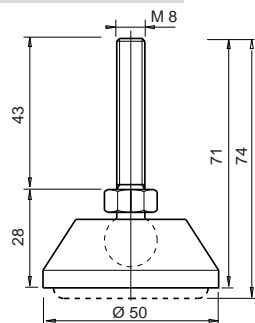
### Support base:

- Painted steel RAL 9007



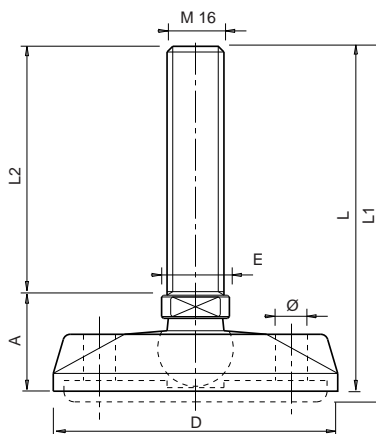
## ELEMENTI DI SOSTEGNO E ACCESSORI SUPPORT ELEMENTS AND ACCESSORIES

Code F21812



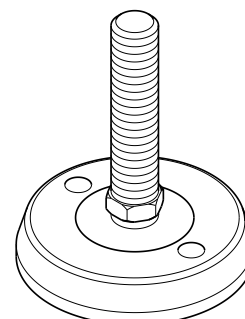
Code F21813

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97	100	70	27	13	80	9



Code F21814

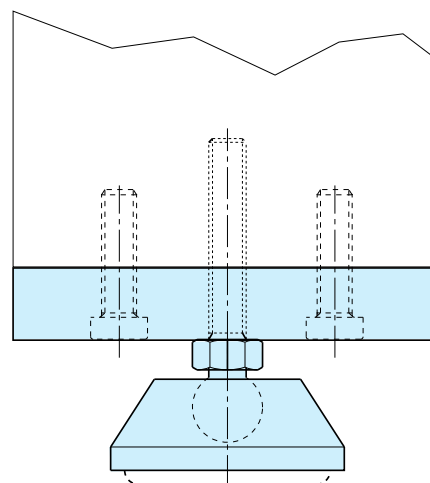
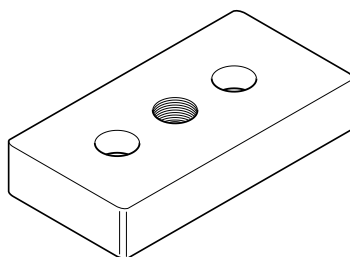
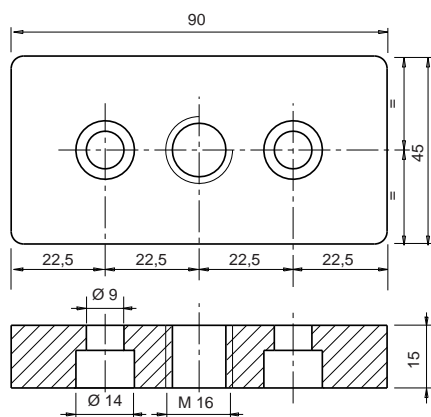
L	L1	L2	A	E	D	Ø
102	105	55	47	20	100	12,5



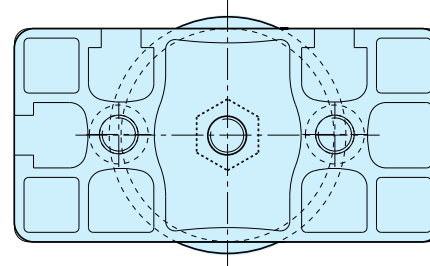
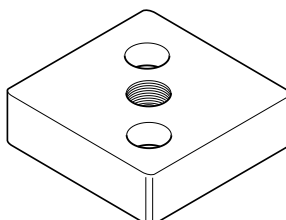
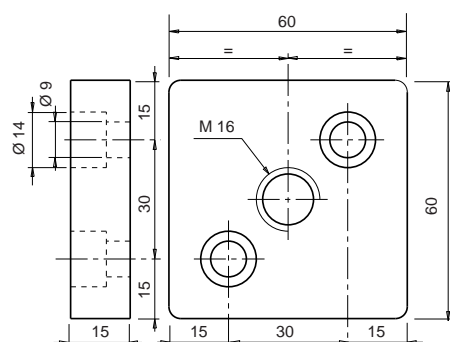
Code F21816

L	L1	L2	A	E	D	Ø
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Code SL02001

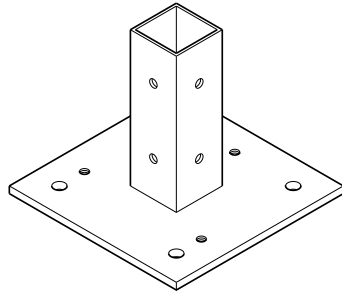
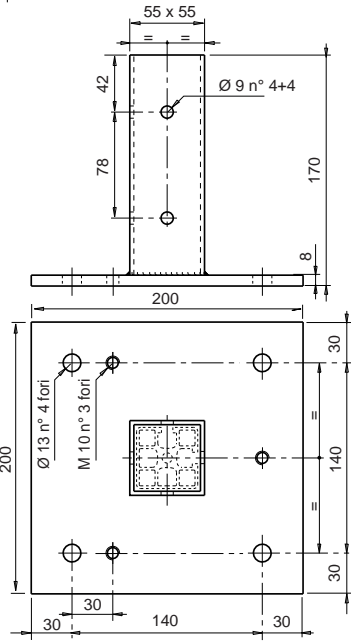


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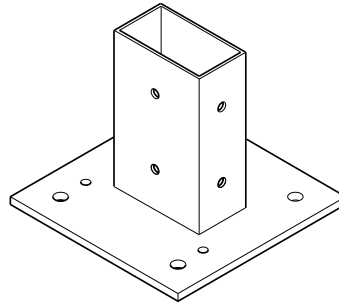
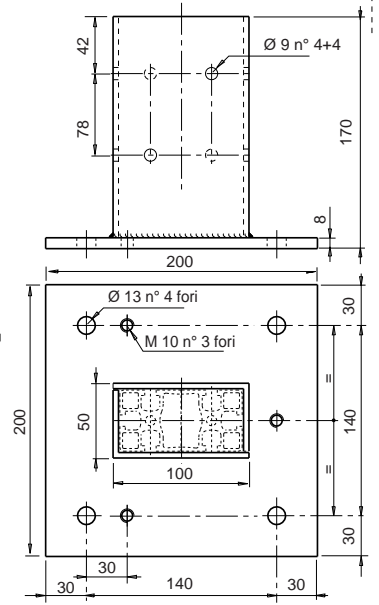




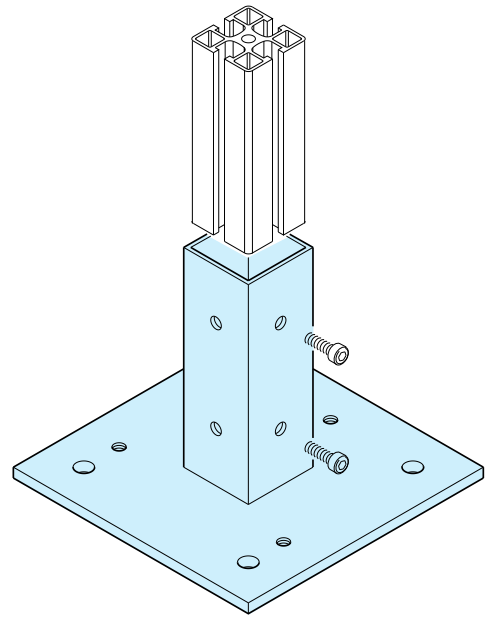
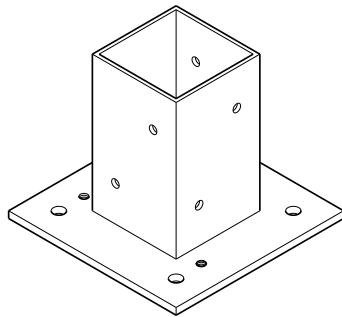
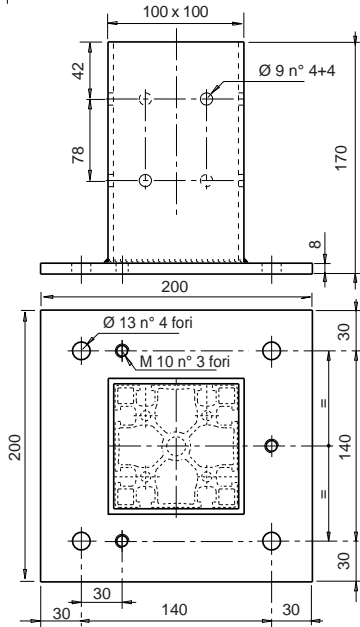
Code SN04001



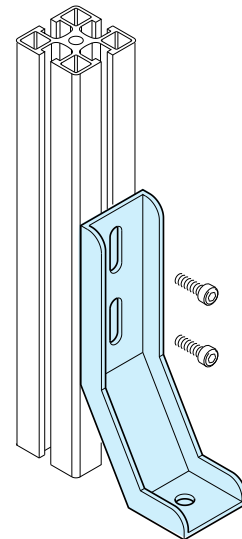
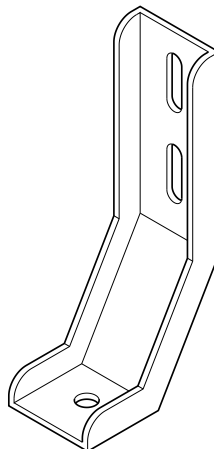
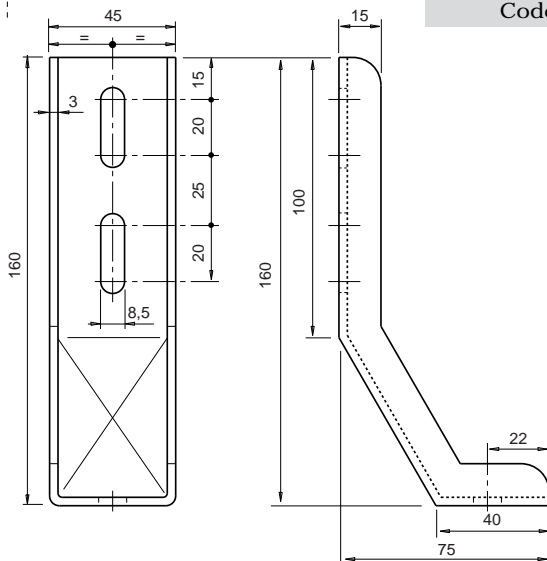
Code SN04002



Code SN04003



Code SN04004



## Accessori di completamento

### Cerniere:

- In alluminio (Al Mg 0,5 Si 0,4 Fe UNI 9006/1)
- Trattamento superficiale: anodizzazione

### Supporti:

- In poliammide "6" rinforzato a fibre di vetro

### Tamponamenti e accessori:

- In gomma sintetica, colore nero

## Range of accessories

### Hinges:

- Aluminium (Al Mg 0.5 Si 0.4 Fe UNI 9006/1)
- Surface treatment: anodizing

### Supports:

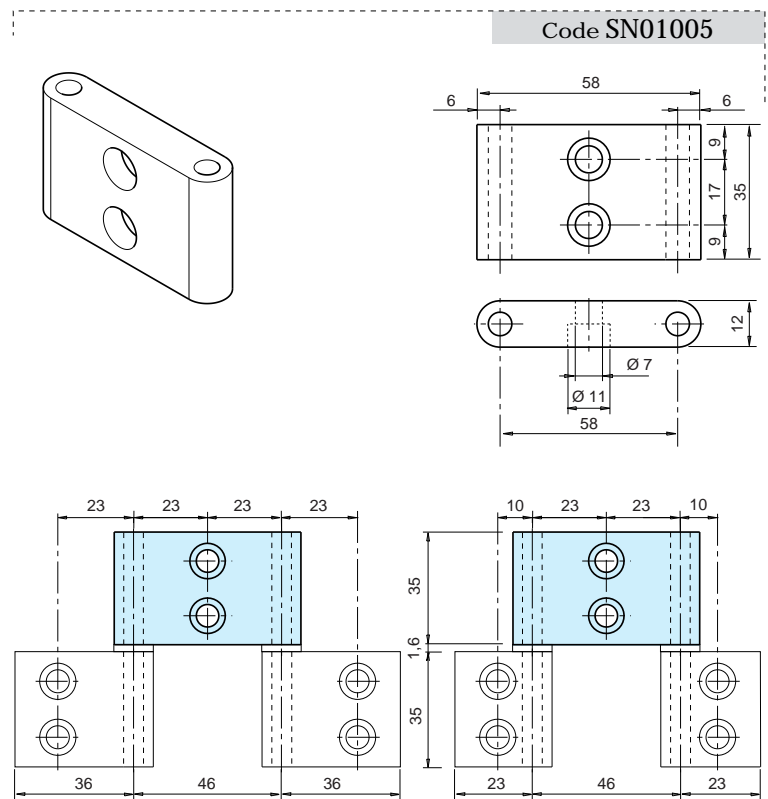
- Polyamide "6" fibreglass reinforced

### Buffers and accessories:

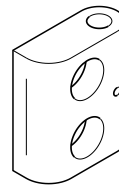
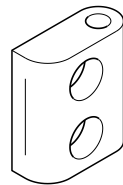
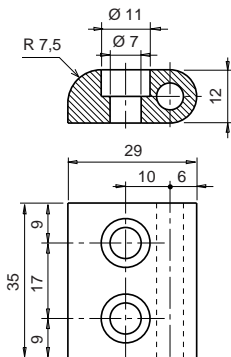
- Synthetic rubber, black



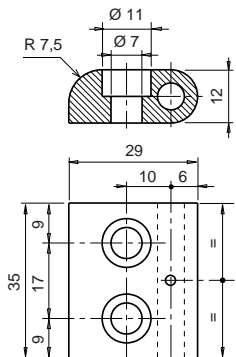
## ACCESSORI DI COMPLETAMENTO RANGE OF ACCESSORIES



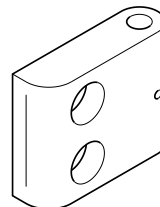
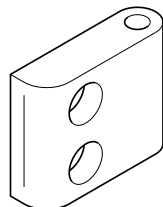
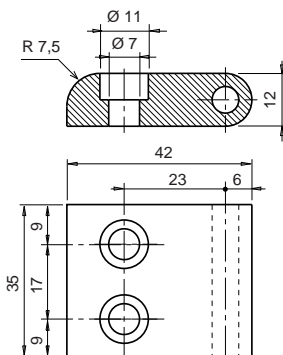
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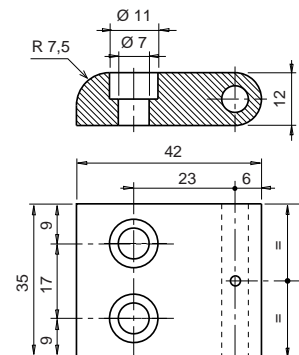
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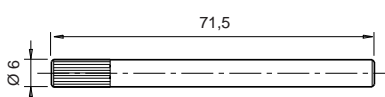
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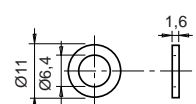
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Code SN02001

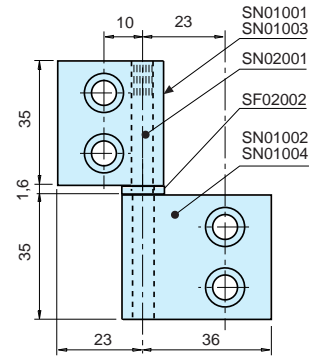
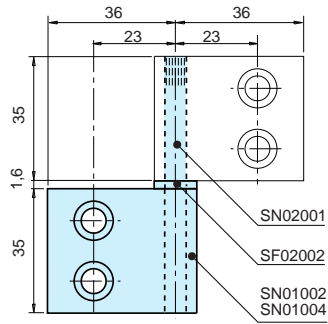
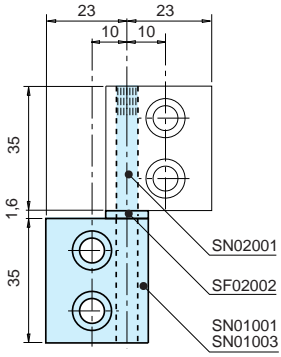


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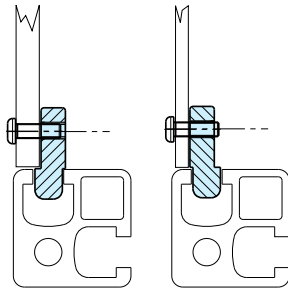
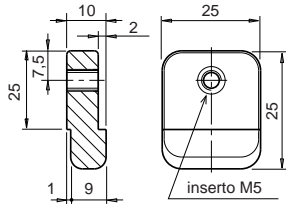
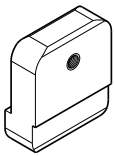




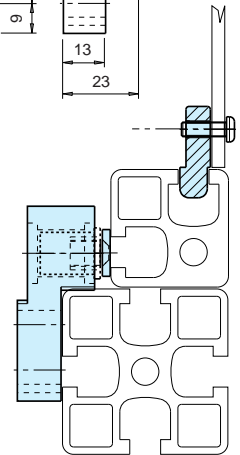
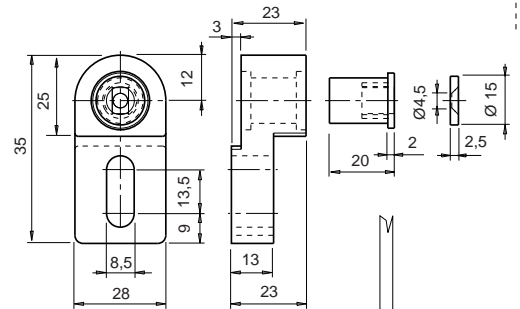
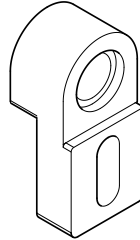
Esempi di assemblaggio semicerniere  
 Examples of semi-hinge assembly



Code SL04001

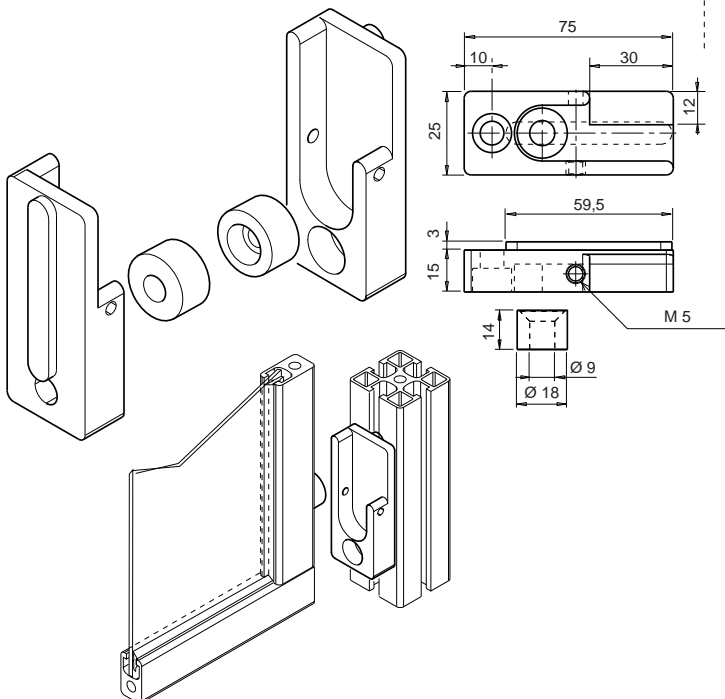


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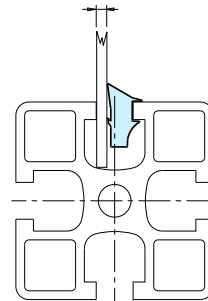
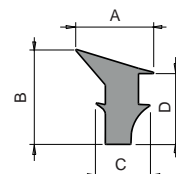


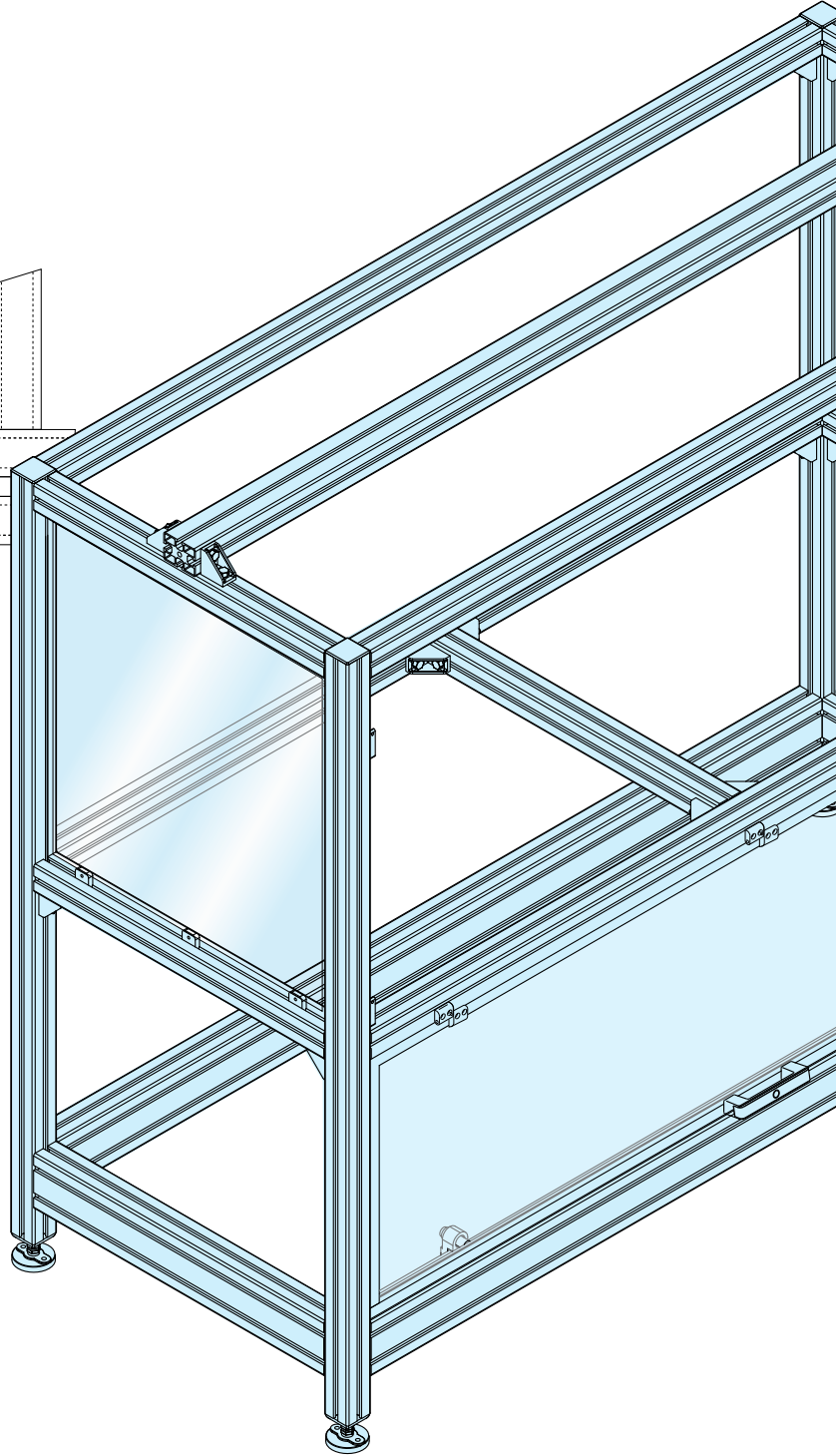
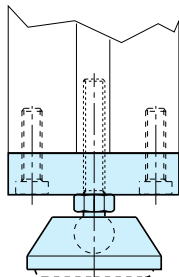
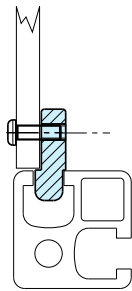
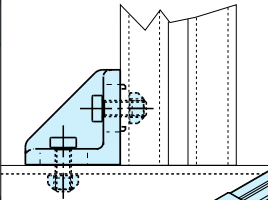
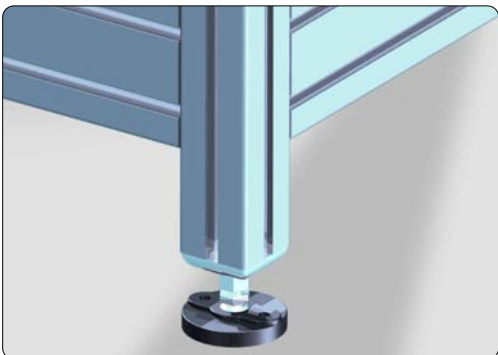
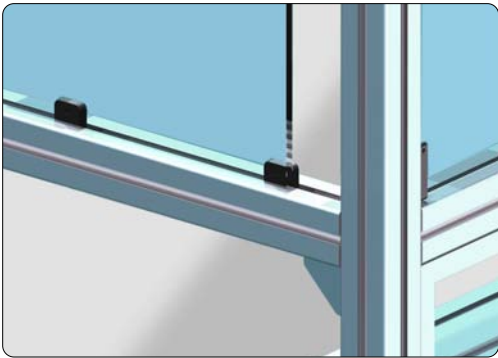
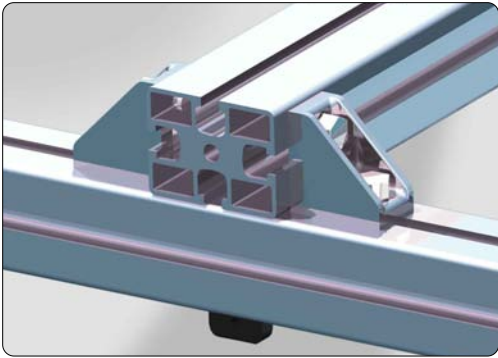
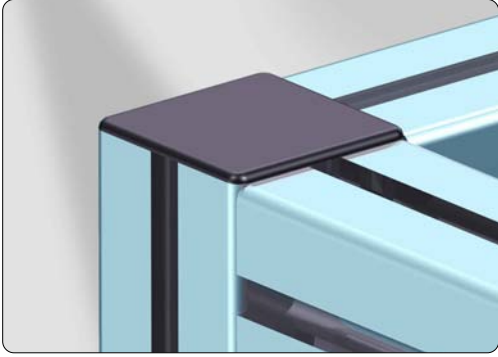
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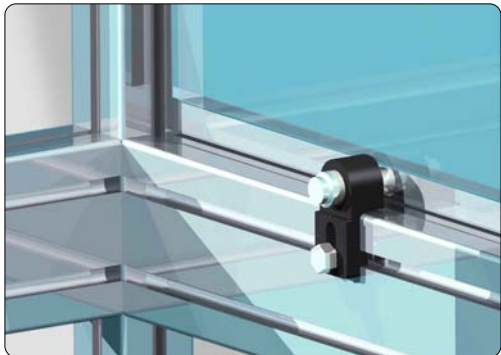
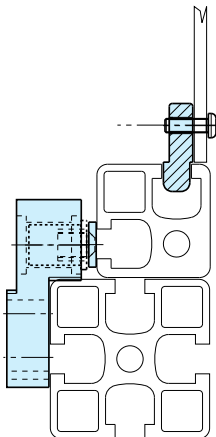
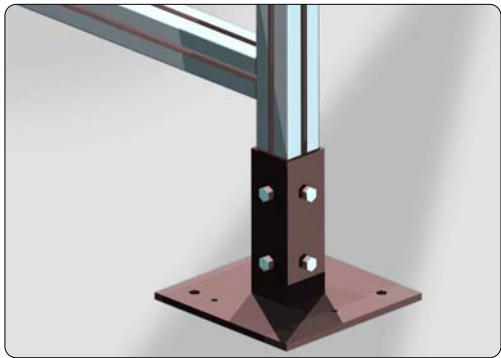
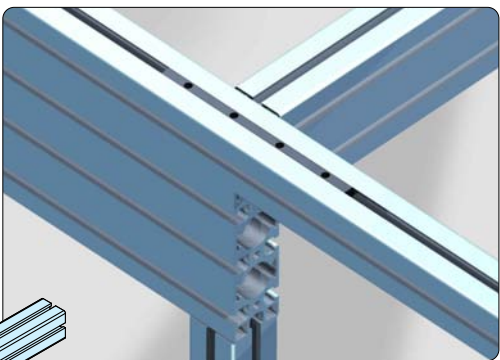
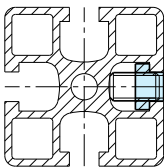
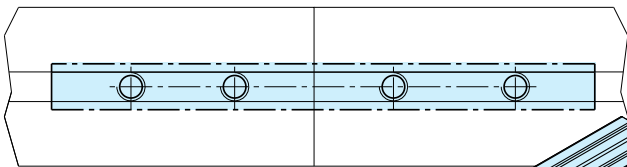
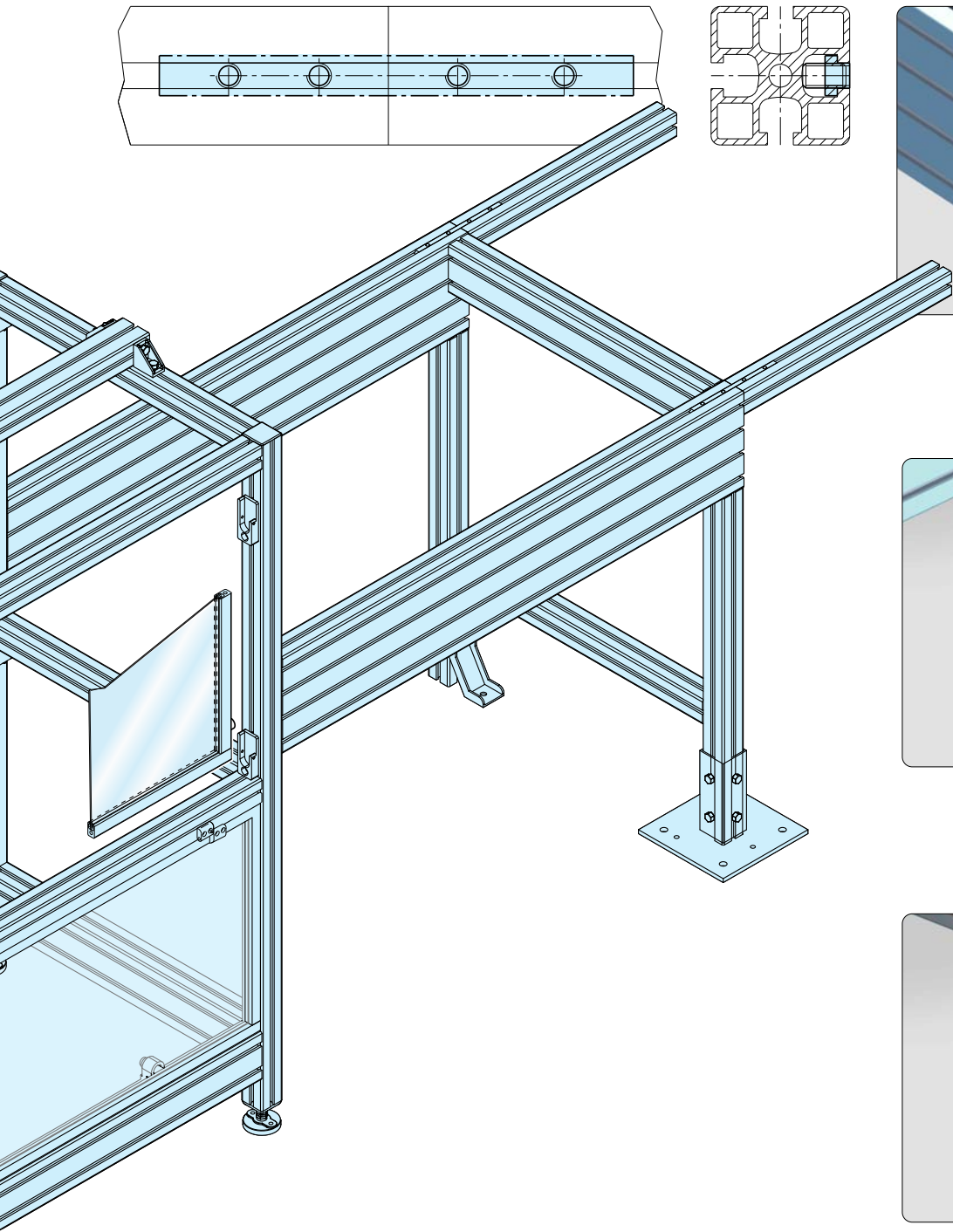
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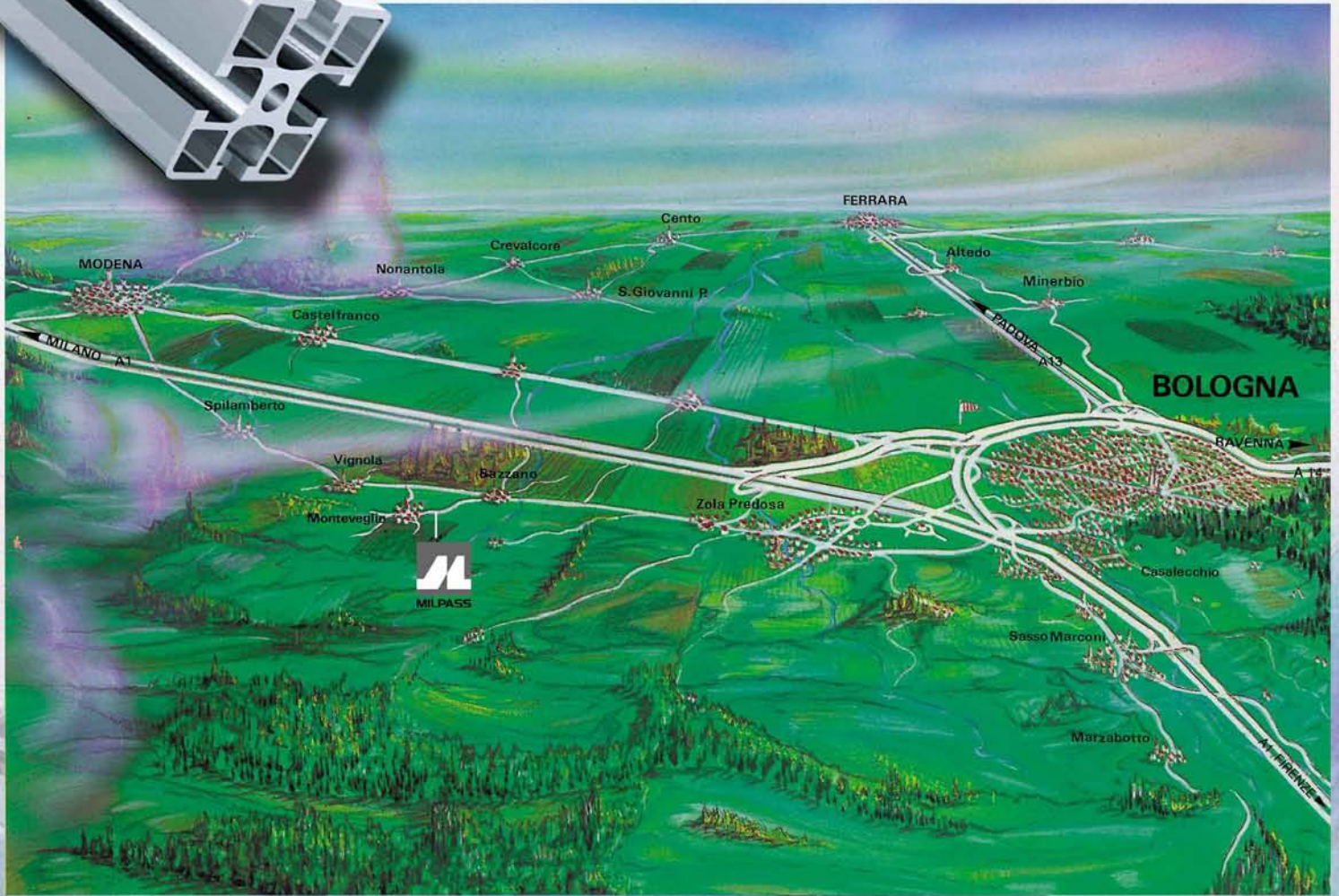


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1,5	12,32	12,5	8,9	9,5	SF05002
3	10,32	12,5	7,9	9,5	SF05003
4	9,32	12,5	5,9	9,5	SF05004
5	8,32	12,5	4,9	9,5	SF05005









DALL'ESPERIENZA MILPASS, UNA LINEA DI PROFILI STRUTTURALI IN ALLUMINIO ANODIZZATO, CAVA 8 mm, COMPLETA DI ELEMENTI DI FISSAGGIO, DI GIUNZIONE, DI SOSTEGNO E DI TUTTI GLI ACCESSORI DI COMPLETAMENTO, UTILIZZABILI PER LA

- COMPOSIZIONE DI:
- STRUTTURE PORTANTI MODULARI
  - NASTRI TRASPORTATORI
  - BANCHI DI LAVORO
  - SISTEMI DI MOVIMENTAZIONE
  - STRUTTURE DI PROTEZIONE
  - BASAMENTI PER MACCHINE

THE EXPERIENCE MILPASS HAS GAINED HAS GIVEN RISE TO A LINE OF STRUCTURAL PROFILES MADE OF ANODIZED ALUMINIUM, SLOT 8 mm. COMPLETE WITH FASTENING, JOINT AND SUPPORT ELEMENTS AND A COMPREHENSIVE RANGE OF ACCESSORIES, WHICH CAN BE USED FOR THE COMPOSITION OF:

- MODULAR SUPPORT STRUCTURES
- CONVEYOR BELTS
- WORKBENCHES
- MOVEMENT AND HANDLING SYSTEMS
- PROTECTION STRUCTURES
- MACHINE BASES



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