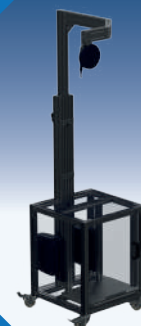
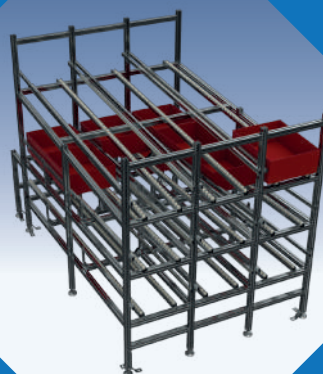
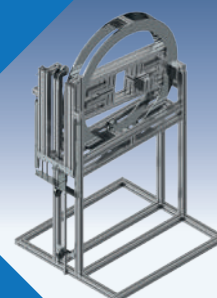
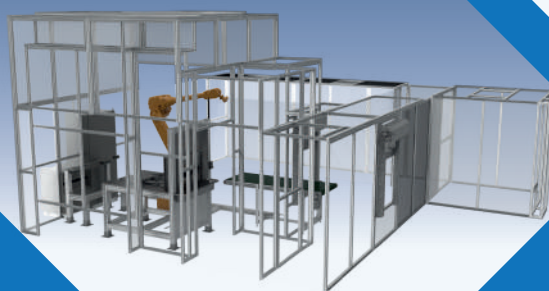
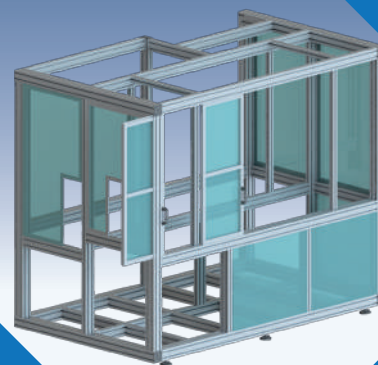
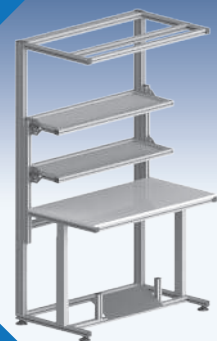


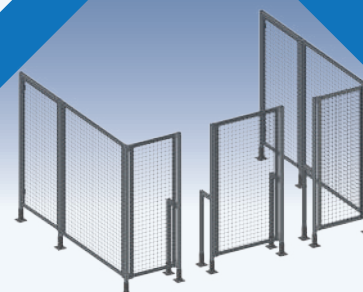
# FASTEN SISTEMAS

COMPONENTES PARA MOBILIARIO  
Y EQUIPAMIENTOS INDUSTRIALES

COMPONENTS FOR INDUSTRIAL  
FURNITURE AND EQUIPMENT



CATÁLOGO  
CATALOGUE **V.21**





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# FASTEN S I S T E M A S

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Fedra, 12 • 47195 Arroyo de la Encomienda Valladolid España  
T: (34) 983 54 70 17 - F: (34) 983 54 70 96 - e-mail: comercial@fasten.es

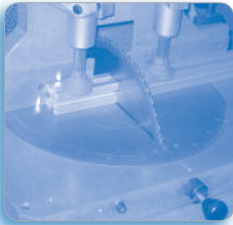


Fasten Sistemas offers a wide range of joining and fastening components, assembly and positioning accessories, plastic and aluminium profiles, especially designed for mechanical engineering. Some of the most usual applications are:

Machine frames, machine enclosures, machine guarding, work stations, roller and belt conveyors, assembly and inspection lines, transfer and supply trolleys, partition and protective walls, protective and work cabins, special shelves, display racks, exhibitors,...

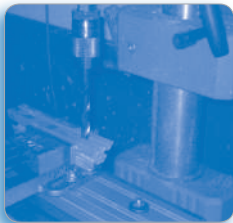


The system is a cost-effective and flexible solution, allowing assembly to come closer to designing and avoiding problems concerning part preparation for welding, deformation, weld cleaning, stabilization of bedplates, painting and other mechanical work. Flexibility offered by this system makes possible the modification at any time of the finished structured, adding or removing components without the use of welding machines, saws or other tools which are difficult to use once the structure has been built.



### **Custom made parts**

We provide design service to meet our customers specific application demands. Apart from our standard catalogue we develop custom made parts being a reliable partner in the industry that requires fast and competitive solutions to customers' problems. Our custom made part process includes product development and design (CAD 2D – 3D), construction and documentation, tool making, sample delivery and finalise into part production. Short and large production series are all welcome.



### **Cut down service**

We also provide our customers a Cut Down service to satisfy specific length requirements. Bar ends are burr-free and do not need to be reworked. We are able to provide cuts ranging from 0 to 90 degrees.

### **Other operations**

Profile processing for each connector or joint is also provided. The position of the bores and threads must be specified when ordering.

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# FASTEN S I S T E M A S

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Fasten Sistemas ofrece un completo sistema de elementos de fijación y unión, accesorios de montaje y posicionamiento, perfiles plásticos y de aluminio, especialmente diseñados para el desarrollo de proyectos de ingeniería mecánica.

Algunas de las aplicaciones más comunes de este sistema son:

Bastidores de máquinas, cerramientos de máquinas, protecciones de máquinas, estaciones de trabajo, transportadores de banda y de rodillos, líneas de ensamblaje e inspección, carros de suministro y traslado, paredes divisorias y de protección, cabinas protectoras, estanterías especiales, sistemas de demostración, expositores,...

Este sistema constituye un importante avance en términos de ahorro económico y de tiempo permitiendo acercar el montaje a la fase de diseño y evitando problemas relacionados con la preparación de partes para soldar, las deformaciones, el esmerilado de la soldadura, la estabilización de las bases y otros trabajos mecánicos y de pintado posteriores. Mediante la combinación de perfiles con sus diferentes elementos de unión y fijación pueden construirse todo tipo de estructuras e instalaciones industriales. La flexibilidad y modularidad que ofrece este sistema hace que las estructuras creadas puedan ser modificadas en cualquier momento añadiendo o eliminando elementos de las mismas sin utilizar soldadura, sierra u otros útiles cuya utilización resultaría complicada una vez terminada la estructura.

## **Piezas especiales**

Además de nuestro catálogo de componentes estándar, desarrollamos un completo programa de fabricación de piezas a medida siendo un proveedor solvente en una industria que requiere cada vez más la búsqueda de soluciones competitivas y a medida.

Este servicio tiene como objetivo satisfacer sus necesidades para aplicaciones específicas e incluye el desarrollo y diseño (CAD 2D – 3D), construcción y documentación, envío de muestras y finaliza con la producción en serie.

## **Corte a medida**

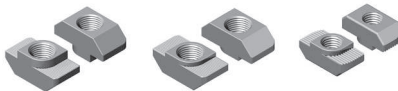
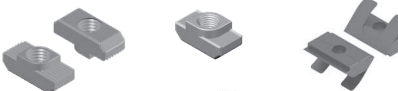
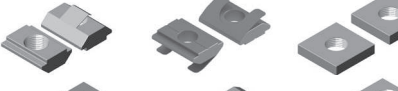
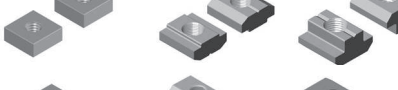
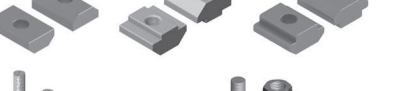







Ofrecemos a nuestros clientes la posibilidad de recibir sus pedidos de perfiles cortados a medida, con ángulos de corte de 0 a 90 grados y libres de rebaba.

## **Mecanizado**





Igualmente en nuestro taller los perfiles pueden ser mecanizados y/o roscados para cada tipo de unión (conectores, pernos, tornillos,...) según sus necesidades indicándolo en el pedido.






















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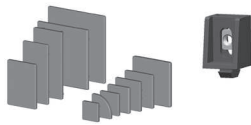


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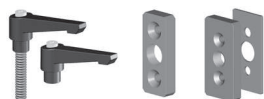
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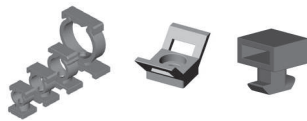
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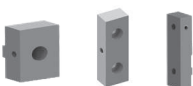
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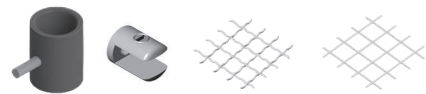
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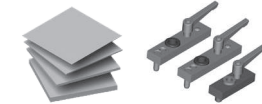
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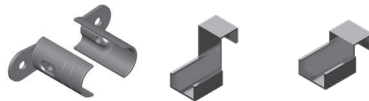
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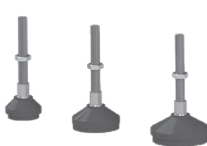
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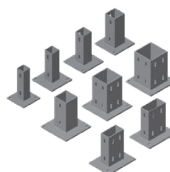
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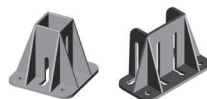
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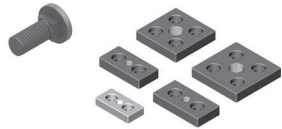
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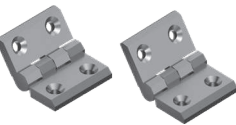
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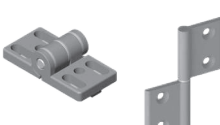
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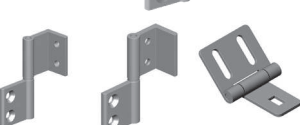
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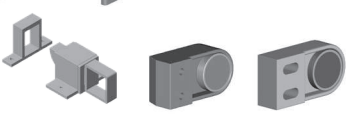
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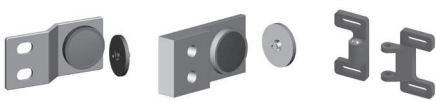
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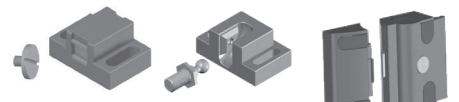
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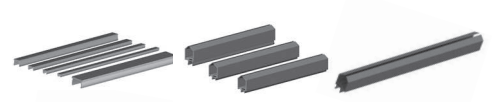


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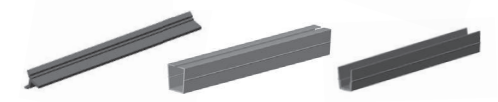


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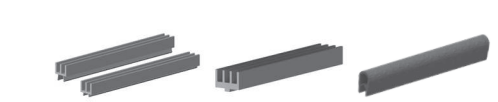
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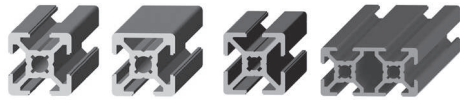
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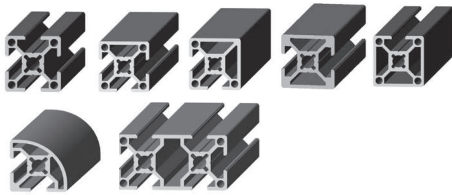
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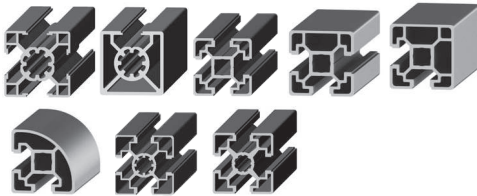


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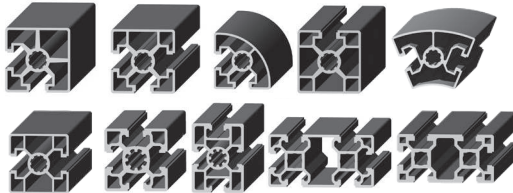


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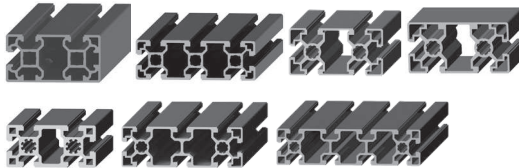
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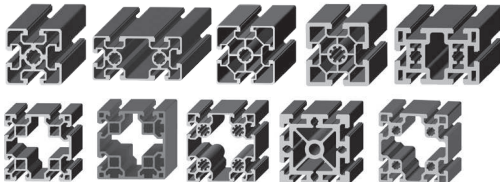
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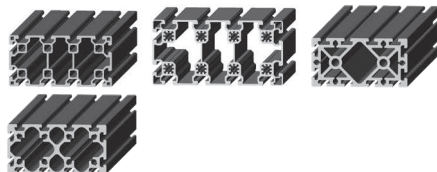
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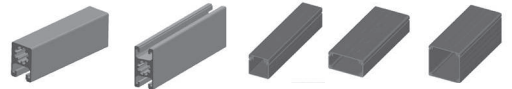


## Series especiales Special series

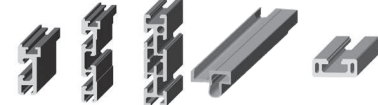
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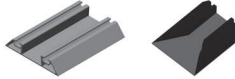
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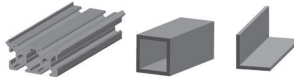
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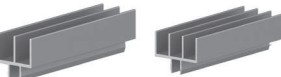
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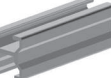
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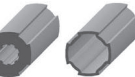
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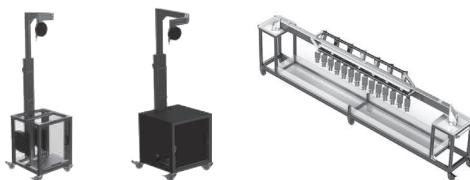
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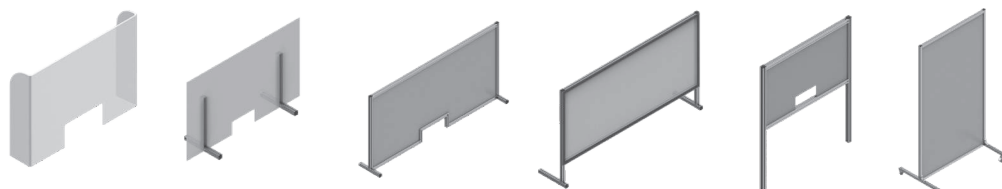
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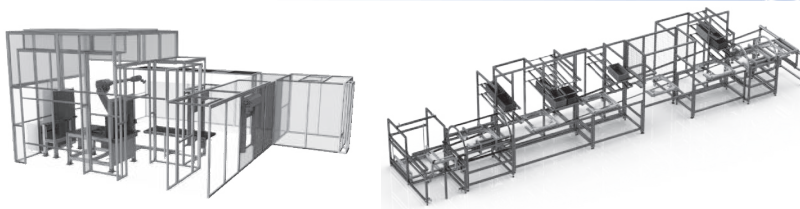


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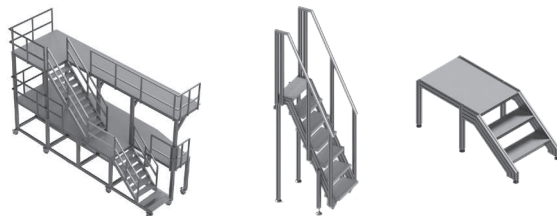


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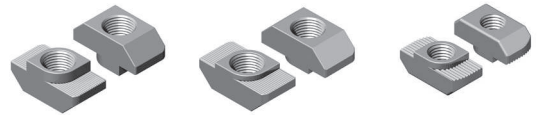


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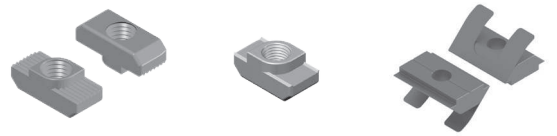


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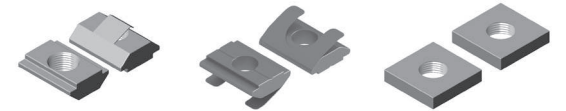
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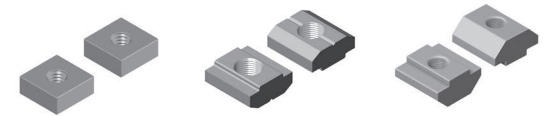
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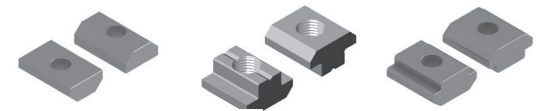
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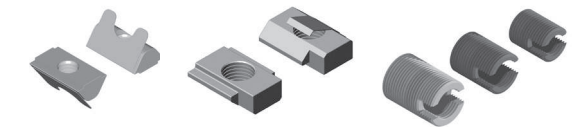
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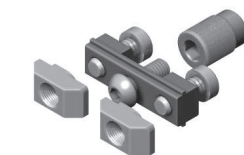
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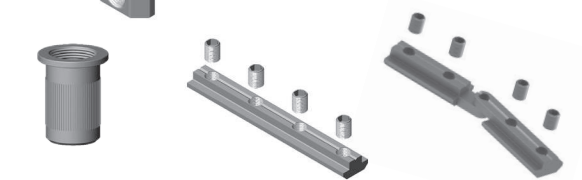
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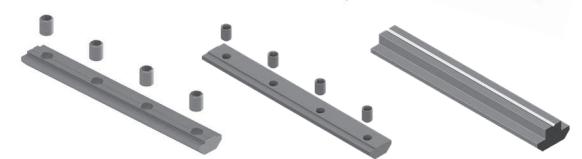
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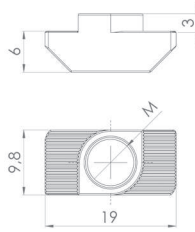
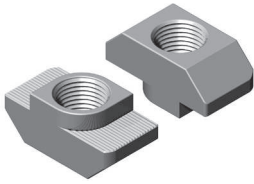


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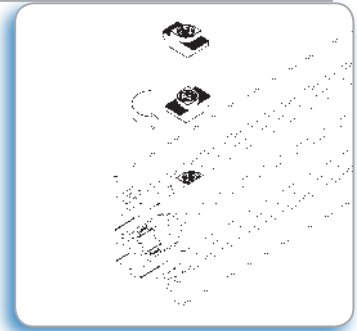


# FASTENING ELEMENTS

**Tuerca cabeza martillo** Acero zincado / Inox  
**Hammer head nut** Zinc plated steel / Stainless



52014	M4	0,008
52015	M5	0,007
52016	M6	0,007
52018	M8	0,006
52016-Inox.	M6	0,007
52018-Inox.	M8	0,006



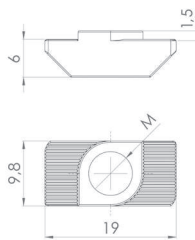
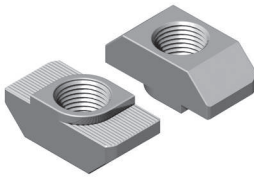
**Aplicación**

Para fijar elementos a los perfiles con canal de 10 mm. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

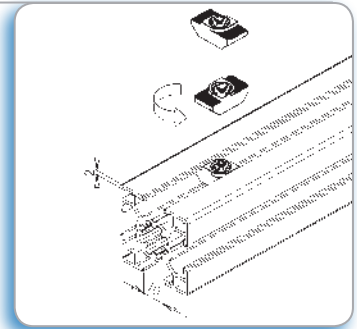
**Application**

Used for the assembly of accessories on profiles with 10 mm slot. Nuts can be inserted sideways along the profile slot.

**Tuerca cabeza martillo baja** Acero zincado  
**Hammer head nut, low neck** Zinc plated steel



52064	M4	0,006
52065	M5	0,006
52066	M6	0,005
52068	M8	0,005



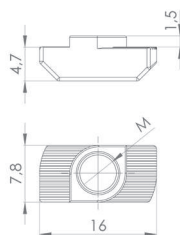
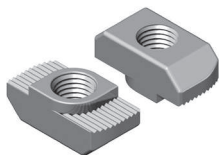
**Aplicación**

Para fijar elementos a los perfiles con canal de 10 mm y patilla 2 mm. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

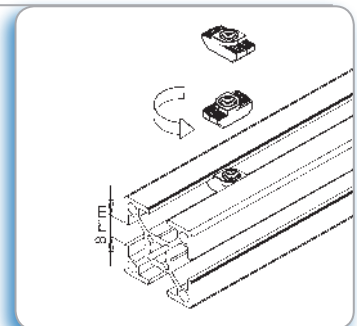
**Application**

Used for the assembly of accessories on profiles with 10 mm slot and 2mm thickness. Nuts can be inserted sideways along the profile slot.

**Tuerca cabeza martillo, canal 8 mm** Acero zincado  
**Hammer head nut, 8 mm slot** Zinc plated steel



52074	M4	0,004
52075	M5	0,003
52076	M6	0,003



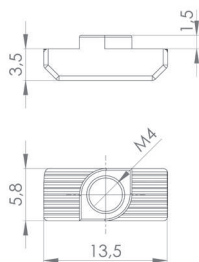
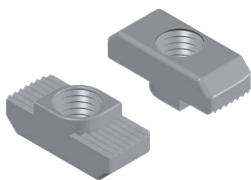
**Aplicación**

Para fijar elementos a los perfiles con canal de 8 mm. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

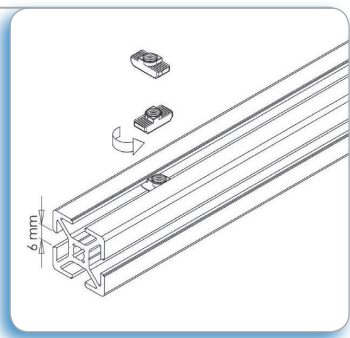
**Application**

Used for the assembly of accessories on profiles with 8 mm slot. Nuts can be inserted sideways along the profile slot.

**Tuerca cabeza martillo perfil 25** Acero zincado  
**Hammer head nut, profile 25** Zinc plated steel



25

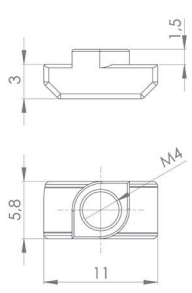
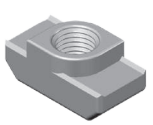


5208	M4	0,002

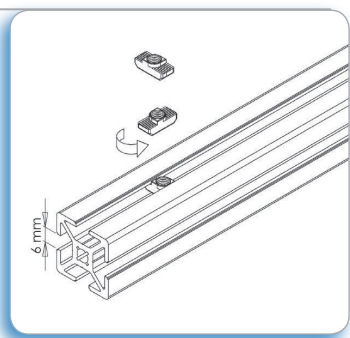
**Aplicación**  
Para fijar elementos a los perfiles serie 25, canal 6 mm. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

**Application**  
Used for the assembly of accessories on profiles serie 25 with 6 mm slot. Nuts can be inserted sideways along the profile slot.

**Tuerca cabeza martillo perfil 20** Acero zincado  
**Hammer head nut, profile 20** Zinc plated steel



20

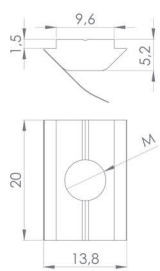
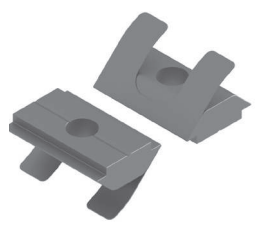


5209	M4	0,001

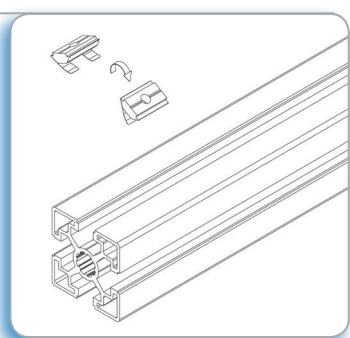
**Aplicación**  
Para fijar elementos a los perfiles serie 20, canal 6 mm. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

**Application**  
Used for the assembly of accessories on profiles serie 20 with 6 mm slot. Nuts can be inserted sideways along the profile slot.

**Tuerca en T con fleje** Acero zincado  
**Spring-plate T nut** Zinc plated steel



19 mm

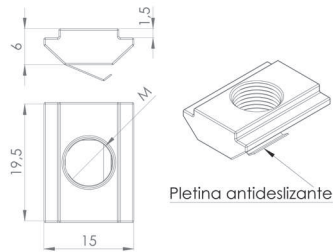
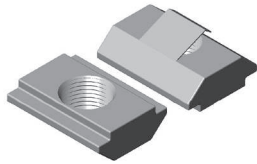


522440	M4	0,008
522540	M5	0,008
522640	M6	0,007
522840	M8	0,007

**Aplicación**  
Para evitar el deslizamiento de la tuerca, ésta posee un fleje flexible, soldado, que muellea. Posibilidad de inserción desde cualquier parte del perfil mediante inclinación a 45°.

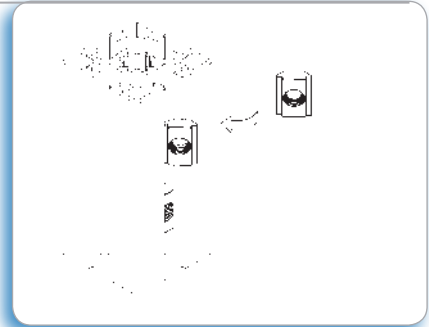
**Application**  
A welded flexible spring leaf prevents the nut from sliding. Nuts can be inserted sideways along the profile slot by swivelling 45°.

**Tuerca en T antideslizamiento** Acero zincado  
**Spring nut** Zinc plated steel



Barcode	Icon	Weight
52024	M4	0,011
52025	M5	0,010
52026	M6	0,010
52028	M8	0,009

10 mm



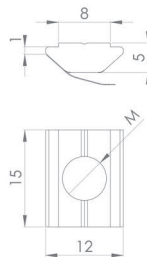
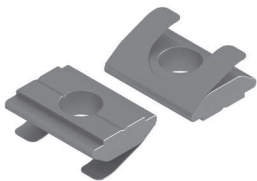
**Aplicación**

Indicada para montajes verticales. La tuerca, gracias a su pletina soldada queda fija y no desliza. Posibilidad de inserción desde cualquier parte del perfil mediante inclinación a 45°.

**Application**

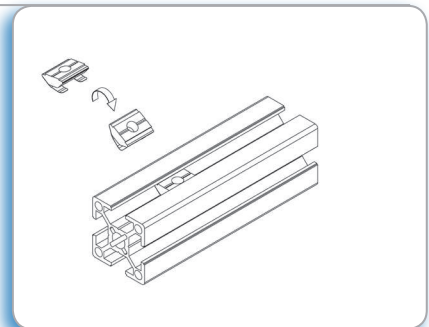
Used for the assembly of accessories on profiles with 10 mm slot. Recommended for vertical assemblies. A welded spring plate at the bottom prevents sliding once introduced in the slot. Nuts can be inserted sideways along the profile slot by swivelling 45°.

**Tuerca en T con fleje, canal 8 mm** Acero zincado  
**Spring-plate T nut, 8 mm slot** Zinc plated steel



Barcode	Icon	Weight
520174	M4	0,005
520175	M5	0,005
520176	M6	0,004
520178	M8	0,004

8 mm



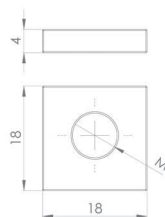
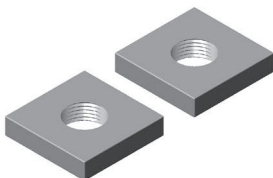
**Aplicación**

Para evitar el deslizamiento de la tuerca, ésta posee un fleje flexible, soldado, que muellea. Posibilidad de inserción desde cualquier parte del perfil mediante inclinación a 45°.

**Application**

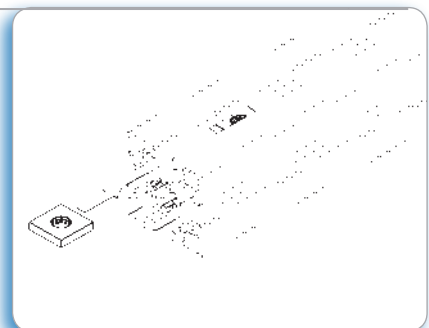
A welded flexible spring leaf prevents the nut from sliding. Nuts can be inserted sideways along the profile slot by swivelling 45°.

**Tuerca cuadrada** Acero zincado  
**Square nut** Zinc plated steel



Barcode	Icon	Weight
52034	M4	0,009
52035	M5	0,009
52036	M6	0,008
52038	M8	0,008

10 mm



**Aplicación**

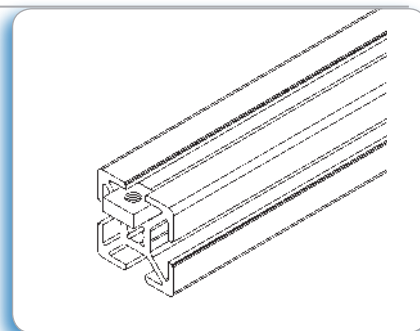
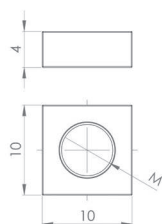
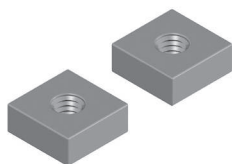
Para fijar elementos a los perfiles con canal 10 mm. Debe ser introducida por el extremo del perfil.

**Application**

Used for the assembly of accessories on profiles with 10 mm slot. Nuts must be inserted from the front in the profile slot.

**Tuerca cuadrada, canal 6 mm** Acero zincado  
**Square nut, 6 mm slot** Zinc plated steel

25



**Aplicación**

Para fijar elementos a los perfiles serie 25, con canal de 6 mm. Debe ser introducida por el extremo del perfil.

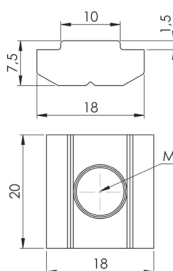
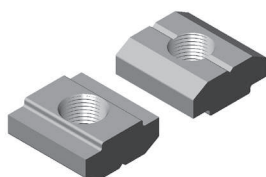
**Application**

Used for the assembly of accessories on profiles serie 25 with 6 mm slot. Nuts must be inserted from the front in the profile slot.

Barcode	Thread	Weight [kg]
52084	M4	0,03
52085	M5	0,02
52086	M6	0,02

**Tuerca rectangular en T** Acero zincado  
**T-slot nut** Zinc plated steel

10 mm



**Aplicación**

Para fijar elementos a los perfiles con canal de 10 mm. Debe ser introducida por el extremo del perfil.

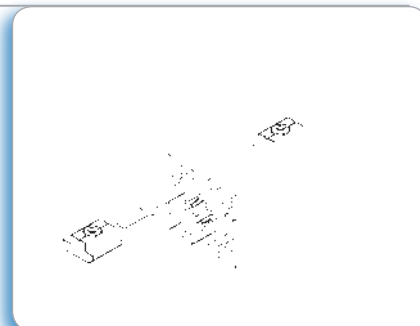
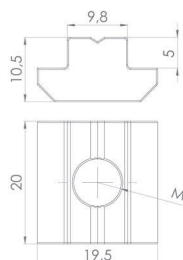
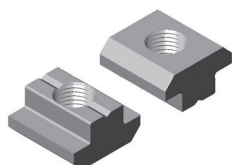
**Application**

Used for the assembly of accessories on profiles with 10 mm slot. Nuts must be inserted from the front in the profile slot.

Barcode	Thread	Weight [kg]
52044	M4	0,016
52045	M5	0,016
52046	M6	0,015
52048	M8	0,014

**Tuerca en T cuello alto** Acero zincado  
**Heavy duty T-slot nut** Zinc plated steel

10 mm



**Aplicación**

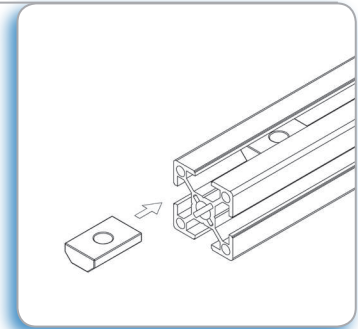
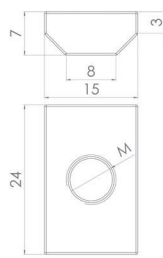
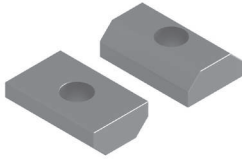
Para fijar elementos a los perfiles con canal de 10 mm. Permite aplicar grandes fuerzas. Debe ser introducida por el extremo del perfil.

**Application**

Used for the assembly of accessories on profiles with 10 mm slot. Recommended for very heavy duty fastening applications. Nuts must be inserted from the front in the profile slot.

Barcode	Thread	Weight [kg]
52054	M4	0,021
52055	M5	0,020
52056	M6	0,020
52058	M8	0,019

**Tuerca rectangular lisa, canal 8 mm** Acero zincado  
**Flat rectangular nut, 8 mm slot** Zinc plated steel



Barcode	Thread	Weight (Kg)
9144	M4	0,016
9145	M5	0,016
9146	M6	0,015
9148	M8	0,014

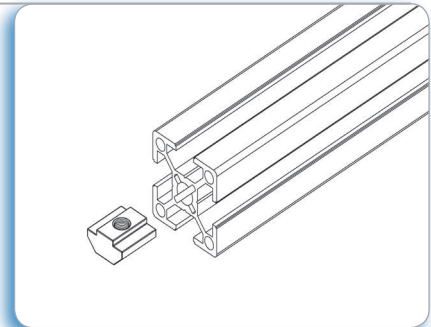
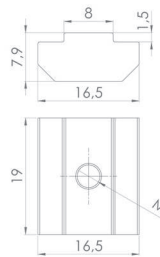
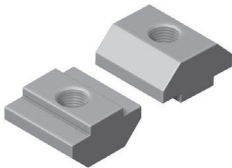
**Aplicación**

Para fijar elementos a los perfiles con canal de 8 mm. Debe ser introducida por el extremo del perfil.

**Application**

Used for the assembly of accessories on profiles with 8 mm slot. Nuts must be inserted from the front in the profile slot.

**Tuerca rectangular en T, canal 8 mm** Acero zincado  
**T-slot nut, 8 mm slot** Zinc plated steel



Barcode	Thread	Weight (Kg)
52094	M4	0,014
52095	M5	0,013
52096	M6	0,012
52098	M8	0,012

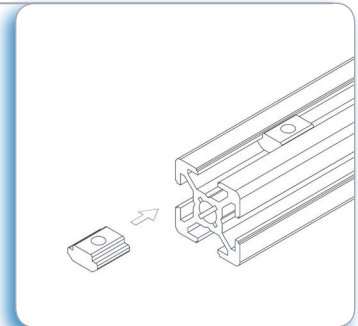
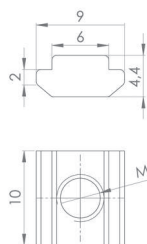
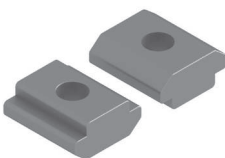
**Aplicación**

Para fijar accesorios a los perfiles con canal de 8 mm. Debe ser introducida por el extremo del perfil.

**Application**

Used for the assembly of accessories on profiles with 8 mm slot. Nuts must be inserted from the front in the profile slot.

**Tuerca en T, canal 6 mm** Acero zincado  
**T-slot nut, 6 mm slot** Zinc plated steel



Barcode	Thread	Weight (Kg)
52091	M4	0,002
52092	M5	0,002

**Aplicación**

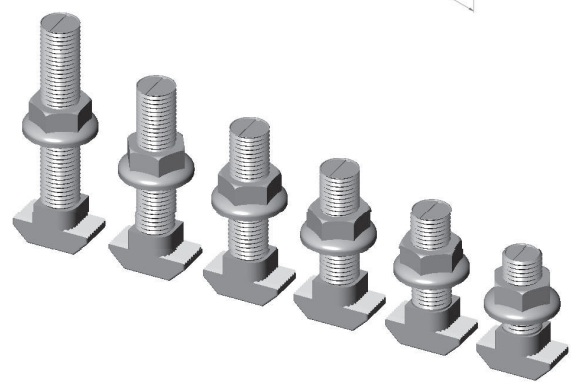
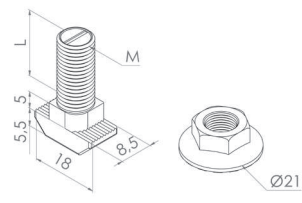
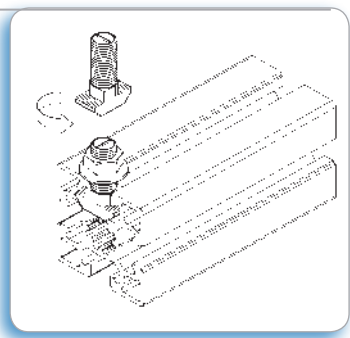
Para fijar elementos a los perfiles serie 20, canal 6 mm. Debe ser introducida por el extremo del perfil.

**Application**

Used for the assembly of accessories on profiles serie 20 with 6 mm slot. Nuts must be inserted from the front in the profile slot.



**Tornillo cabeza martillo + tuerca, canal 10 mm** Acero 8.8 zincado / Inox  
**Hammer head bolt + hex flange nut, 10 mm slot** Zinc plated steel 8.8 / Stainless

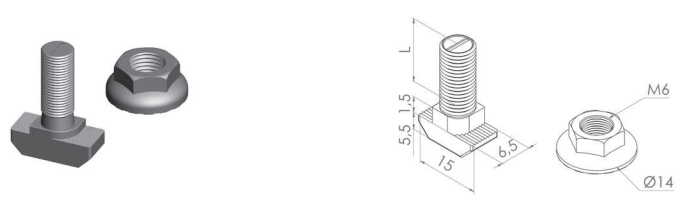
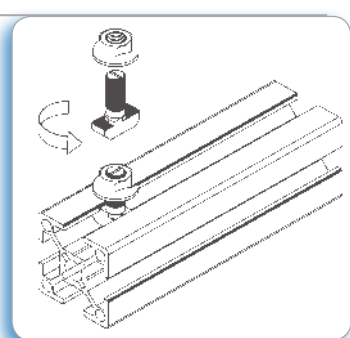


**Aplicación**  
 Para la fijación de accesorios a los perfiles de canal 10 mm. Gracias al dentado de la tuerca y a su mayor diámetro (21 mm), la fijación es máxima.

**Application**  
 For fixing accessories on profiles with 10 mm slot. Due to the bottom serrations and the larger diameter of the nut (21 mm), fixing is optimum.

525020	M8x20	0,021
525025	M8x25	0,023
525030	M8x30	0,024
525035	M8x35	0,026
525040	M8x40	0,027
525050	M8x50	0,031
525070	M8x70	0,037
525025-Inox.	M8x25	0,023
525070-Inox.	M8x70	0,037

**Tornillo cabeza martillo + tuerca, canal 8 mm** Acero 8.8 zincado  
**Hammer head bolt + hex flange nut, 8 mm slot** Zinc plated steel 8.8

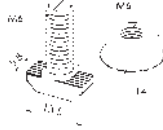


525116	M6x16 mm	0,009

**Aplicación**  
 Para la fijación de accesorios a los perfiles de boca 8 mm. Gracias al dentado de la tuerca, la fijación es máxima.

**Application**  
 For fixing accessories on profiles with 8 mm slot. Due to the bottom serrations of the nut, fixing is optimum.

**Tornillo cabeza martillo + tuerca, canal 6 mm** Acero 8.8 zincado  
**Hammer head bolt + hex flange nut, 6 mm slot** Zinc plated steel 8.8

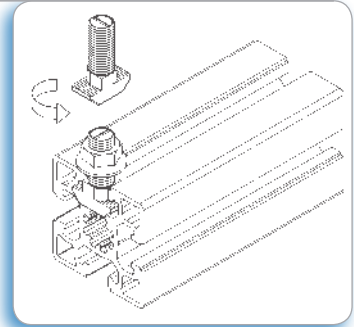


  
525113

 M6x13 mm

 0,008

- 25 -



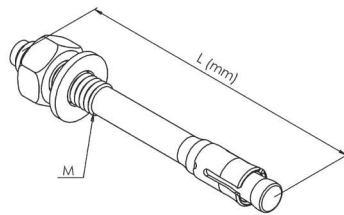
**Aplicación**

Para la fijación de elementos a los perfiles de canal 6 mm. Gracias al dentado de la tuerca, la fijación es máxima.

**Application**

For fixing accessories on profiles with 6 mm slot. Due to the bottom serrations of the nut, fixing is optimum

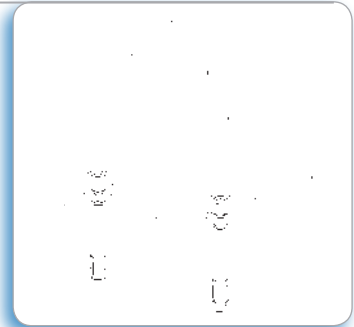
**Taco de expansión** Acero zincado  
**Through bolt anchor** Zinc plated steel



  
5290

 M10x90 mm

 0,057



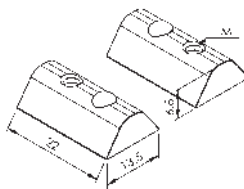
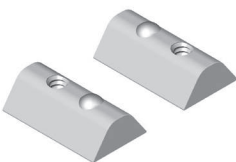
**Aplicación**

Para la fijación de forma segura de soportes y placas al suelo.

**Application**

To firmly join and secure positioning elements to the floor.

**Tuerca redonda con bola** Acero zincado  
**Spring-ball nut** Zinc plated steel



  
5064

 M4

 0,011

5065

M5

0,011

5066

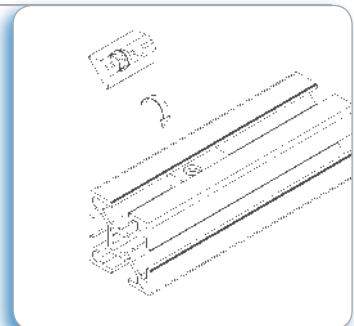
M6

0,010

5068

M8

0,009



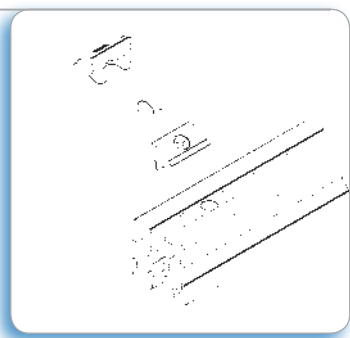
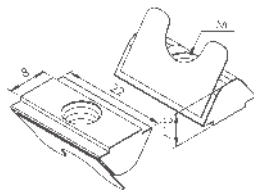
**Aplicación**

Para fijación de elementos a distintos perfiles de canal 8 mm.

**Application**

For fixing accessories on different profiles with 8 mm slot.

**Tuerca redonda con pestaña** Acero zincado  
**Spring-plate nut** Zinc plated steel

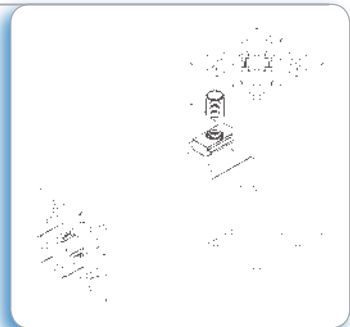
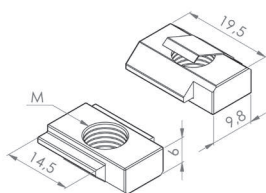
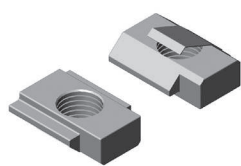


Barcode	Thread	Weight (kg)
5074	M4	0,012
5075	M5	0,011
5076	M6	0,011
5078	M8	0,009

**Aplicación**  
Para fijación de elementos a distintos perfiles de canal 8 mm.

**Application**  
For fixing accessories on different profiles with 8 mm slot.

**Refuerzo antigiro** Acero zincado  
**Anti-rotation nut** Zinc plated steel

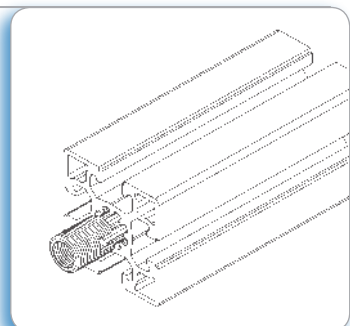
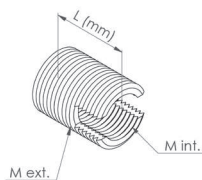
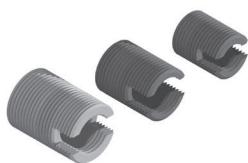


Barcode	Thread	Weight (kg)
5512	M8	0,008

**Aplicación**  
Para evitar el giro en aquellos perfiles unidos con tornillo autorroscante. Posibilidad de inserción desde cualquier parte del perfil mediante inclinación 45°.

**Application**  
To avoid rotation of profiles when using socket T bolts. Used on profiles with 10 mm slot. Nuts can be inserted sideways along the profile slot by swivelling 45°.

**Casquillo reductor** Acero zincado  
**Threaded inserts** Zinc plated steel



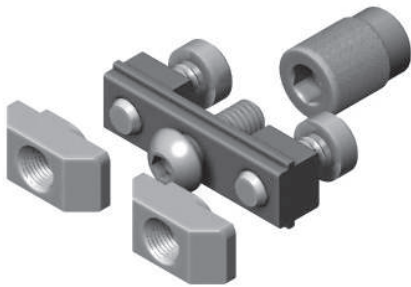
Barcode	Ø.int.	Ø.ext.	L	Weight (kg)
52918	M8	M12	15 mm	0,005
529110	M10	M14	18 mm	0,007
529112	M12	M16	22 mm	0,011

**Aplicación**  
Permite roscar accesorios de M8, M10, M12 en el núcleo central de los perfiles. Se recomienda su uso en estructuras sometidas a vibraciones.

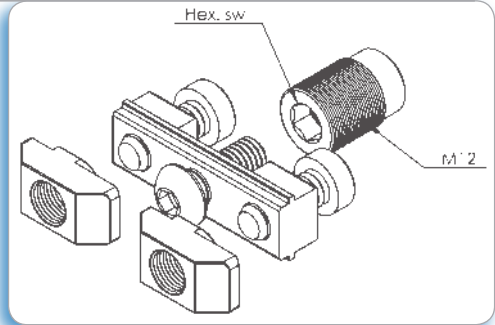
**Application**  
Suitable for front assembly of accessories with M8, M10, M12 thread. Recommended for connexion of profiles subjected to vibrations.

**Fijación ajustable oculta** Acero zincado  
**Adjustable connector** Zinc plated steel

10 mm



**No necesita mecanización**  
**No Machinning needed**






**Aplicación**

Garantiza una unión de perfiles óptima en posicionado y transmisión de fuerza. De uso en perfiles con canal de 10 mm. No necesita mecanización.

**Application**

Guarantees an optimum connection of profiles in terms of positioning and force transmission. Profiles need no machining.

		
5213	40x40	0,051
5212	45x45	0,054
5214	60x60	0,057
5215	40x80 / 80x80	0,054
5216	45x90 / 90x90	0,082

**Paso 1**

Insertar y enroscar el casquillo con ayuda de una llave allen

**Paso 2**

Comprobar que está introducido en su totalidad

**Paso 3**

Colocar la brida y fijarla atornillando el tornillo ISO. Colocar las dos tuercas cabeza de martillo con sus tornillos DIN

**Paso 4**

Comprobar que la brida está atornillada a tope

**Paso 5**

Colocar el perfil que se desea unir en posición

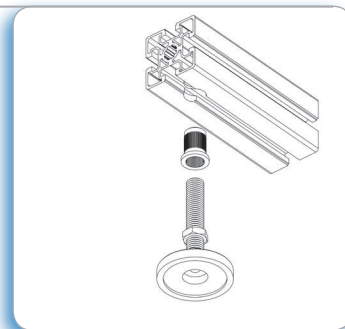
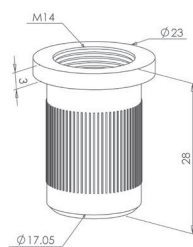
**Paso 6**

Juntar los perfiles introduciendo la fijación ajustable en el canal del perfil a unir.

**Paso 7**

Apretar los dos tornillos DIN, de manera que hagan girar las tuercas cabeza de martillo y aseguren la unión de los perfiles

**Encaje de rosca** Acero zincado  
**Threaded sleeve** Zinc plated steel



**Aplicación**  
Para roscar accesorios en los laterales de los perfiles.

**Application**  
To thread accessories in profile sides.



5291

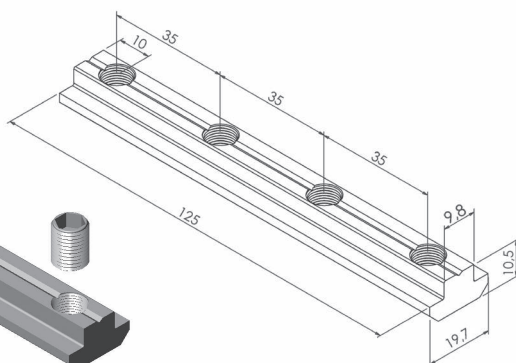
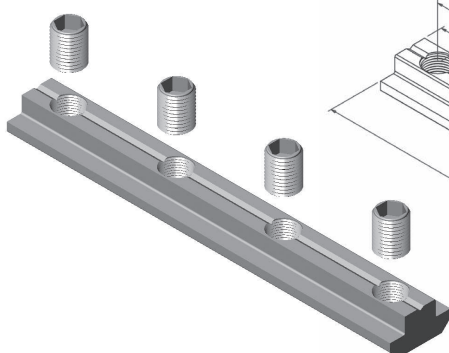


M14



0,024

**Regleta de unión de perfiles** Acero zincado  
**Heavy duty T-slot bar profile** Zinc plated steel



**Aplicación**  
Para la unión longitudinal de dos perfiles de canal 10 mm. El suministro incluye 4 espárragos M8. Esta unión no necesita mecanización.

**Application**  
Suitable for the longitudinal connection of two profiles with 10 mm slot. Standard supply includes 4 M8 screws. Profiles need no machining.



5210125



125 mm

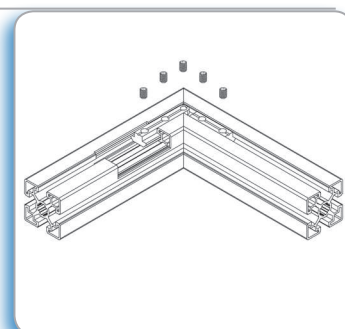
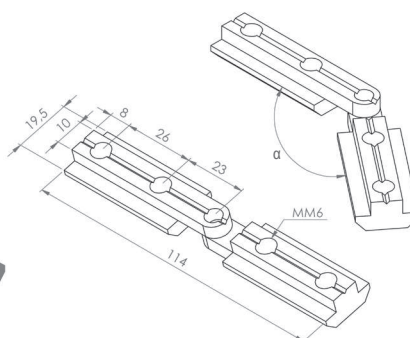
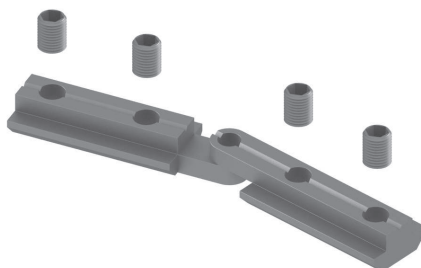


4 x M8



0,131

**Regleta articulada lateral** Acero zincado  
**Articulated profile bar** Zinc plated steel



**Aplicación**  
Para la unión en ángulo de dos perfiles en ángulo, de canal 10 mm. El suministro incluye 4 espárragos M8. Esta unión no necesita mecanización.

**Application**  
Suitable for angle connection of two profiles cut at angles with 10 mm slot. Standard supply includes 4 M8 screws. Profiles need no machining.



52101



125 mm

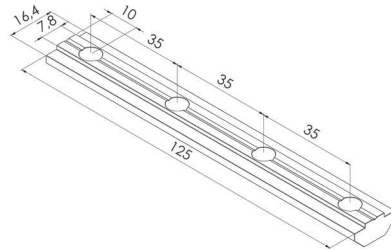
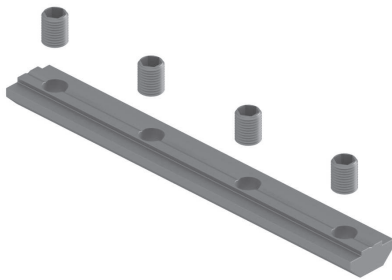


0,107

$\alpha$

$90^\circ < \alpha < 270^\circ$

**Regleta de unión de perfiles, canal 8 mm** Acero zincado  
**T-slot profile bar, 8 mm slot** Zinc plated steel

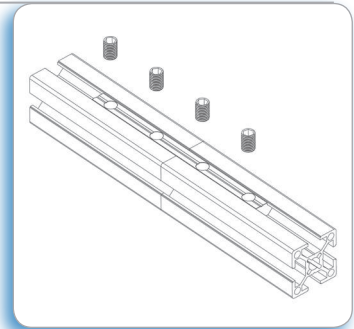


5210126

125 mm

0,12

8 mm



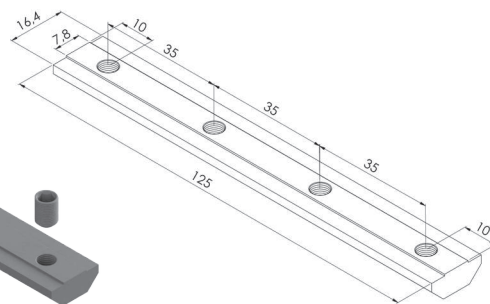
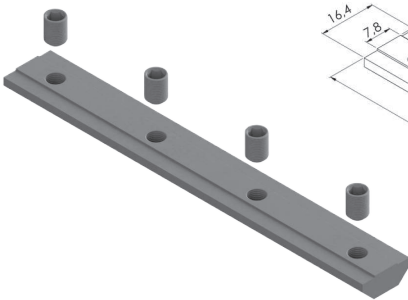
**Aplicación**

Para la unión longitudinal de dos perfiles de canal 8 mm. El suministro incluye 4 espárragos M8. Esta unión no necesita mecanización.

**Application**

Suitable for the longitudinal connection of two profiles with 8 mm slot. Standard supply includes 4 M8 screws. Profiles need no machining.

**Regleta de unión de perfiles, canal 8 mm** Aluminio anodizado  
**T-slot profile bar, 8 mm slot** Anodized aluminium

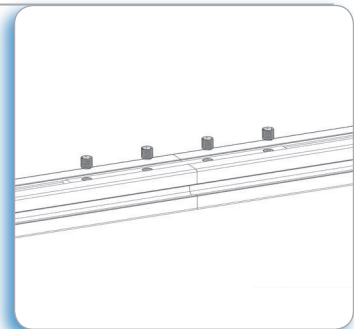


5210130

125 mm

0,029

8 mm



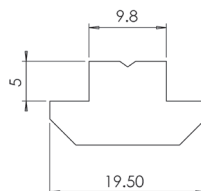
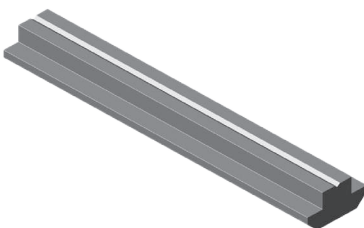
**Aplicación**

Para la unión longitudinal de dos perfiles de canal 8 mm. El suministro incluye 4 espárragos M8. Esta unión no necesita mecanización.

**Application**

Suitable for the longitudinal connection of two profiles with 8 mm slot. Standard supply includes 4 M8 screws. Profiles need no machining.

**Perfil en T cuello alto** Acero  
**Heavy duty T-slot profile** Steel

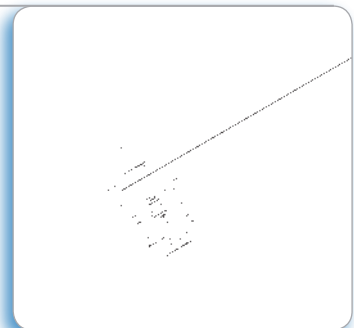


52101000

1000 mm

1,150

10 mm



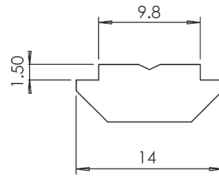
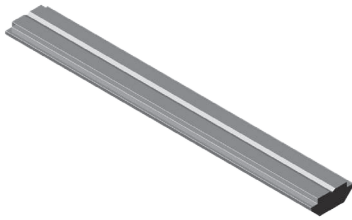
**Aplicación**

Para fijar accesorios a los perfiles con canal de 10 mm. El perfil debe ser introducido por el extremo. Acero sin tratar.

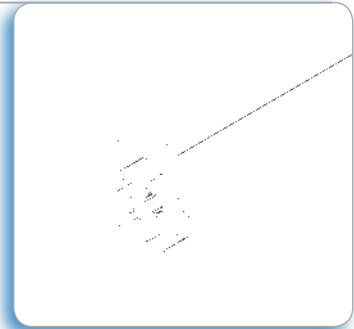
**Application**

Used for the assembly of accessories on profiles with 10 mm slot. It must be inserted from the edge. Raw steel.

**Perfil en T insertable** Acero  
**Insertable T-slot profile** Steel



10 mm



**Aplicación**

Para fijar accesorios a los perfiles con canal de 10 mm. Posibilidad de inserción desde cualquier parte del perfil mediante giro. Acero sin tratar.

**Application**

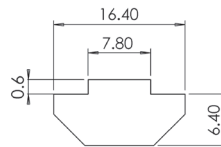
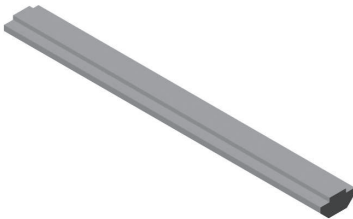
Used for the assembly of accessories on profiles with 10 mm slot. It can be inserted sideways along the profile slot. Raw steel.

52102000

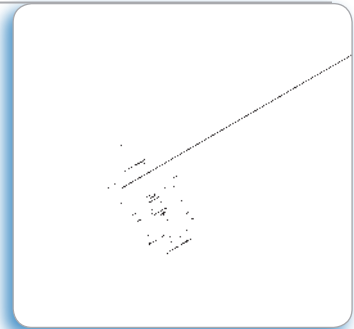
1.000 mm

0,150

**Perfil en T, canal 8 mm** Acero  
**T-slot profile, 8 mm slot** Steel



8 mm



**Aplicación**

Para fijar accesorios o unir perfiles con canal de 8 mm. El perfil debe ser introducido por el extremo. Acero sin tratar.

**Application**

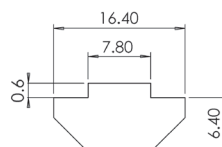
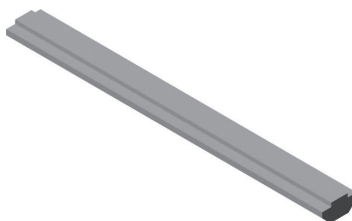
Used for the assembly of accessories and connection of profiles with 8 mm slot. It must be inserted from the front in the profile slot. Raw steel

52104000

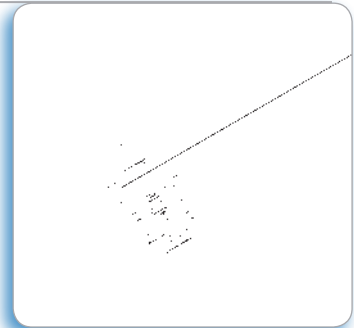
1000 mm

0,3

**Perfil en T, canal 8 mm** Aluminio anodizado  
**T-slot profile, 8 mm slot** Anodized aluminium



8 mm



**Aplicación**

Para fijar accesorios o unir perfiles con canal de 8 mm. El perfil debe ser introducido por el extremo.

**Application**

Used for the assembly of accessories and connection of profiles with 8 mm slot. It must be inserted from the front in the profile slot.

52103000

1000 mm

0,3

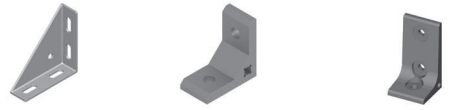
# ELEMENTOS DE UNIÓN

# JOINING ELEMENTS

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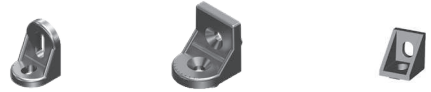
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página/page 26



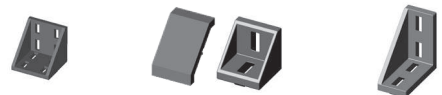
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página/page 30



página/page 31



página/page 32



página/page 33



página/page 34



página/page 35



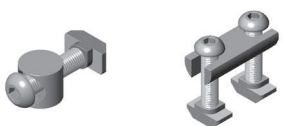
página/page 36



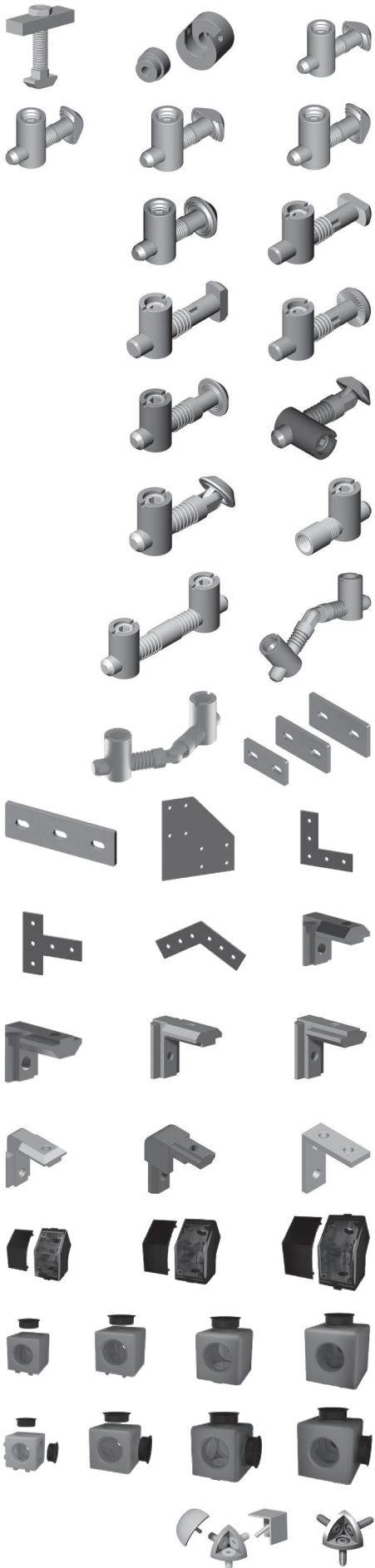
página/page 37



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página/page 44

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página/page 53

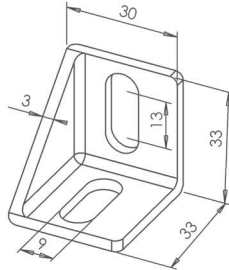
página/page 54

# ELEMENTOS DE UNIÓN

# JOINING ELEMENTS



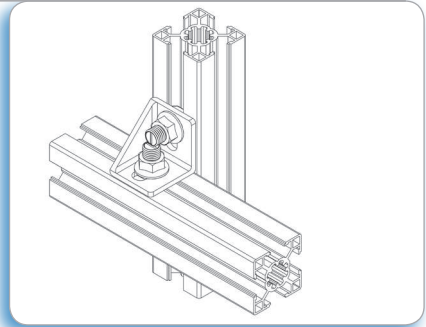
**Escuadra 33x33x30** Acero zincado  
**Connection angle 33x33x30** Zinc plated steel



5305



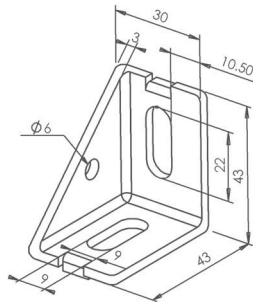
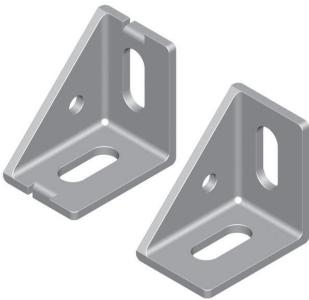
0,045



**Aplicación**  
Para la unión de perfiles en cruz.  
Se recomienda usar tornillo cabeza martillo M8x20.

**Application**  
For right-angled and power-lock connection of profiles. It can be fixed to the profile using hammer head bolts M8x20.

**Escuadra 43x43x30** Acero zincado  
**Connection angle 43x43x30** Zinc plated steel



5301



con posicionador/with guiding studs

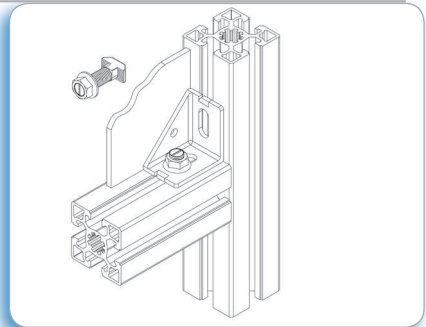


0,063

53010

sin posicionador/without guiding studs

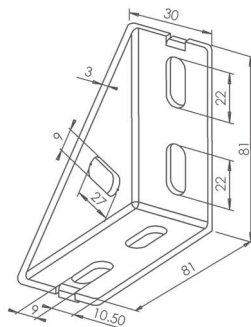
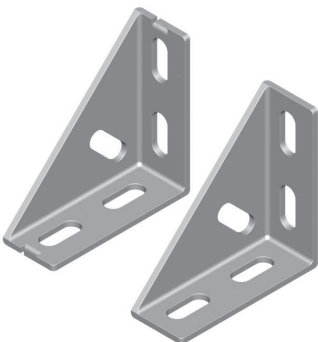
0,062



**Aplicación**  
Para la unión de perfiles a 90°; disponible sin pestañas de posicionamiento. Se recomienda usar tornillo cabeza martillo M8x20.

**Application**  
For right-angled and power-lock connection of profiles. Also available without guiding studs. It can be fixed to the profile using hammer head bolts M8x20.

**Escuadra 81x81x30** Acero zincado  
**Connection angle 81x81x30** Zinc plated steel



5302



con posicionador/with guiding studs



0,157

53020

sin posicionador/without guiding studs

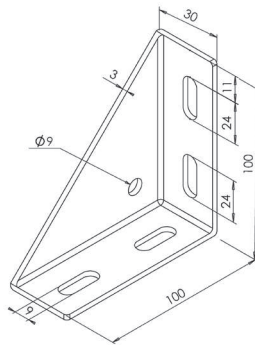
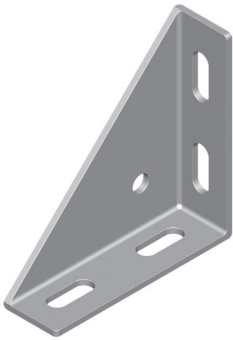
0,156



**Aplicación**  
Para la unión de perfiles a 90°; disponible sin pestañas de posicionamiento. Se recomienda usar tornillo cabeza martillo M8x20.

**Application**  
For right-angled and power-lock connection of profiles. Also available without guiding studs. It can be fixed to the profile using hammer head bolts M8x20.

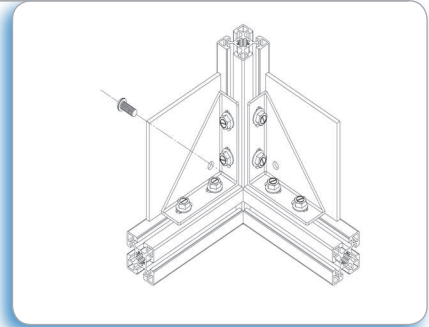
**Escuadra 100x100x30** Acero zincado  
**Connection angle 100x100x30** Zinc plated steel



5308



0,220



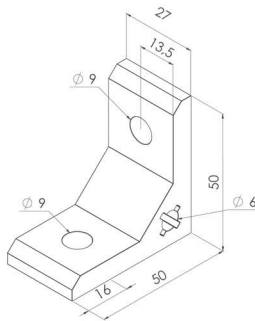
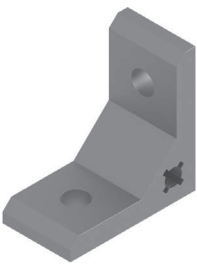
**Aplicación**

Para la unión de perfiles a 90°. Se recomienda usar tornillo cabeza martillo M8x20.

**Application**

For right-angled and power-lock connection of profiles. It can be fixed to the profile using hammer head bolts M8x20.

**Escuadra 50x50x27** Aluminio anodizado  
**Connection angle 50x50x27** Anodized aluminium



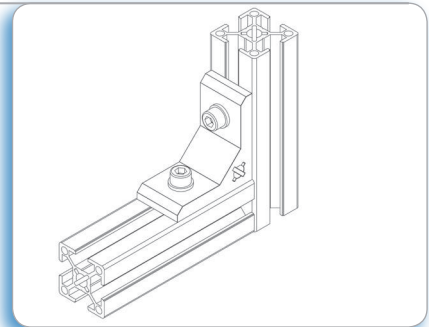
5314



M8



0,048



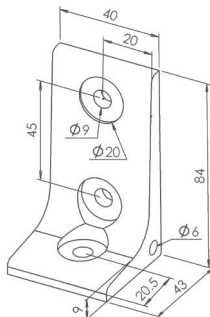
**Aplicación**

Para la unión de perfiles a 90°. Tornillería no incluida.

**Application**

For right-angled and power-lock connection of profiles. Screws not included.

**Escuadra 43x84x40** Aluminio anodizado  
**Connection angle 43x84x40** Anodized aluminium



5310



con posicionador/with guiding studs

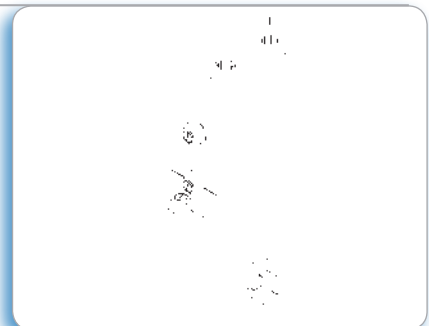


0,090

53101

sin posicionador/without guiding studs

0,090



**Aplicación**

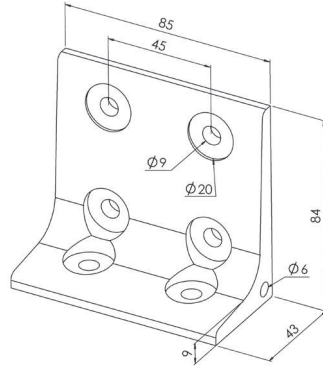
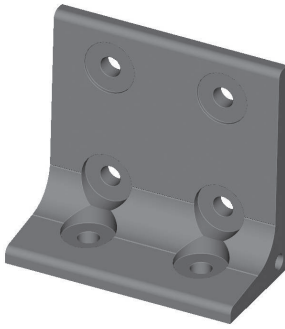
Para la unión de perfiles a 90°; disponible sin pestañas de posicionamiento. Se recomienda usar tornillo cabeza martillo M8x20.

**Application**

For right-angled and power-lock connection of profiles. Also available without guiding studs. It can be fixed to the profile using hammer head bolts M8x20.



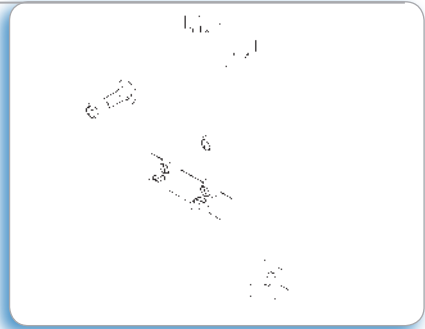
**Escuadra 43x84x85** Aluminio anodizado  
**Connection angle 43x84x85** Anodized aluminium



5311



0,193



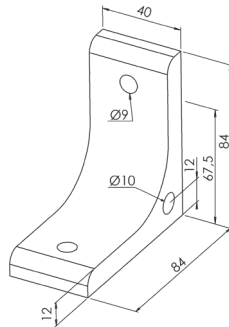
**Aplicación**

Para la unión de perfiles a 90°. Se recomienda usar tornillo cabeza martillo M8x20.

**Application**

For right-angled and power-lock connection of profiles. It can be fixed to the profile using hammer head bolts M8x20.

**Escuadra reforzada 84x84x40** Aluminio anodizado  
**Connection angle 84x84x40** Anodized aluminium



5312

sin posicionador/without guiding studs

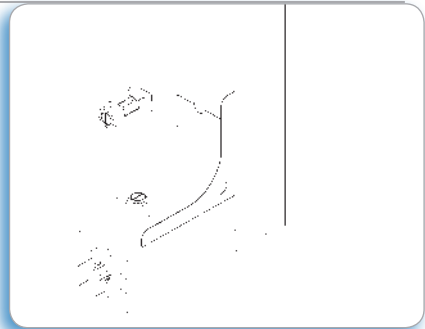
0,200



53121

con posicionador/with guiding studs

0,201



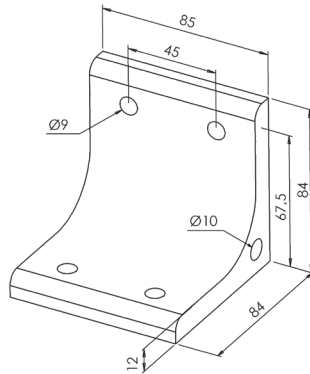
**Aplicación**

Para la unión de perfiles a 90°; disponible con pestañas de posicionamiento. Se recomienda usar tornillo cabeza martillo M8x25.

**Application**

For right-angled and power-lock connection of profiles. Also available without guiding studs. It can be fixed to the profile using hammer head bolts M8x25.

**Escuadra reforzada 84x84x85** Aluminio anodizado  
**Connection angle 84x84x85** Anodized aluminium



5313



0,426



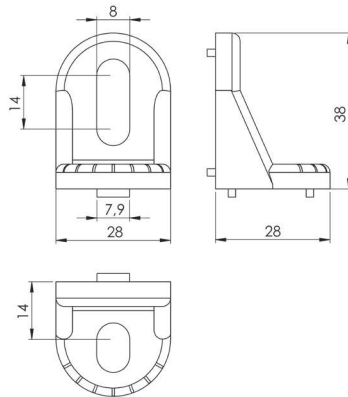
**Aplicación**

Para la unión de perfiles a 90°. Se recomienda usar tornillo cabeza martillo M8x25.

**Application**

For right-angled and power-lock connection of profiles. It can be fixed to the profile using hammer head bolts M8x25.

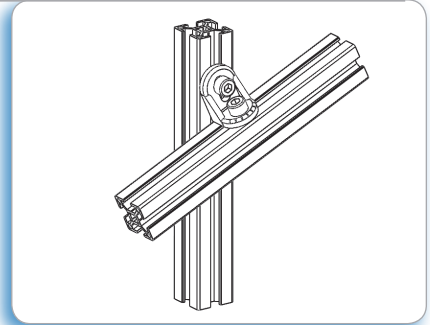
**Escuadra para fijación en ángulos canal 8 mm** Aluminio fundido  
**Connection angle, 8mm slot** Die-cast aluminium



53442



0,018



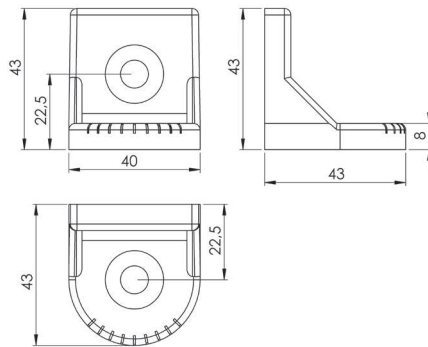
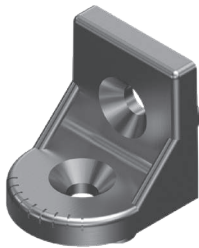
**Aplicación**

Para la unión de perfiles en cualquier ángulo. Muy útil para la fijación de bandejas y baldas.

**Application**

For the connection of profiles at different angles. Very useful for the positioning of trays and shelves.

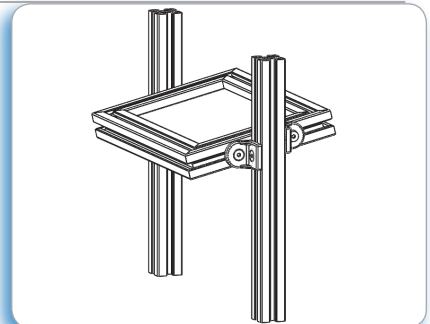
**Escuadra para fijación en ángulos canal 10mm** Aluminio fundido  
**Connection angle, 10mm slot** Die-cast aluminium



53441



0,045



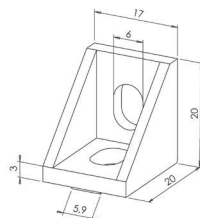
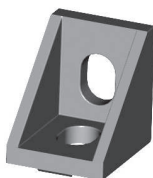
**Aplicación**

Para la unión de perfiles en cualquier ángulo. Muy útil para la fijación de bandejas y baldas.

**Application**

For the connection of profiles at different angles. Very useful for the positioning of trays and shelves.

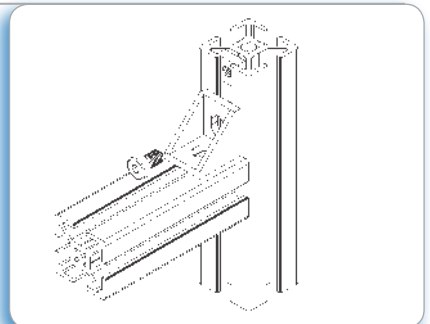
**Escuadra 20x20x17** Aluminio fundido  
**Connection angle 20x20x17** Die-cast aluminium



53301



0,006



**Aplicación**

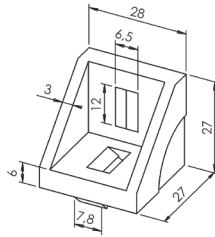
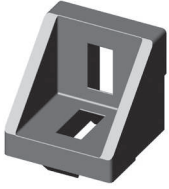
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas.

**Application**

For right-angled and power-lock connection of profiles. Positioning studs can easily be removed.

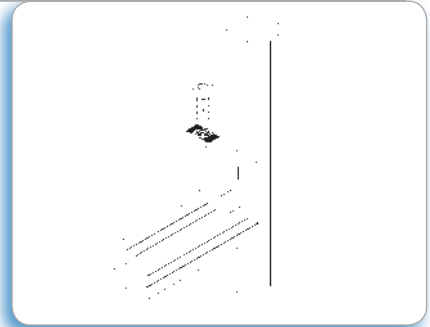


**Escuadra 27x27x28** Aluminio fundido  
**Connection angle 27x27x28** Die-cast aluminium



5333

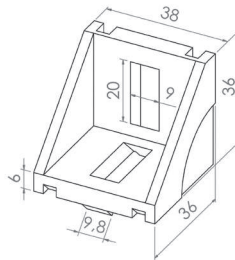
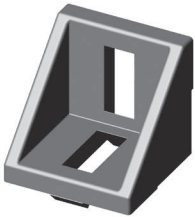
0,021



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas.

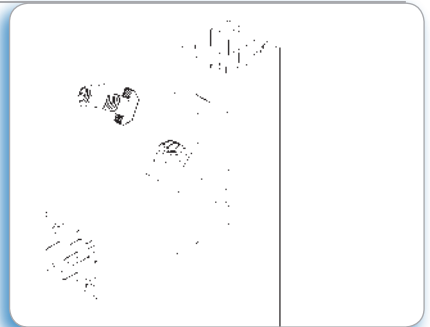
**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed.

**Escuadra 36x36x38** Aluminio fundido  
**Connection angle 36x36x38** Die-cast aluminium



5334

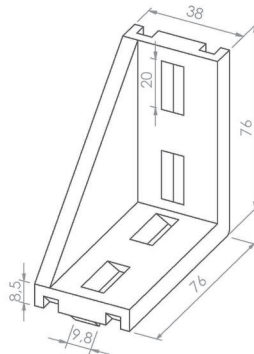
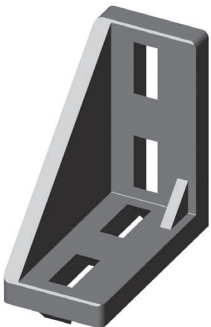
0,040



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x20.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x20.

**Escuadra 76x76x38** Aluminio fundido  
**Connection angle 76x76x38** Die-cast aluminium



5335

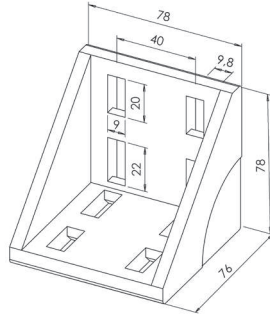
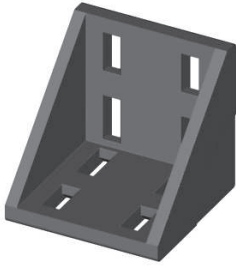
0,119



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.

**Escuadra 76x76x78** Aluminio fundido  
**Connection angle 76x76x78** Die-cast aluminium



40  
80



**Aplicación**

Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**

For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.

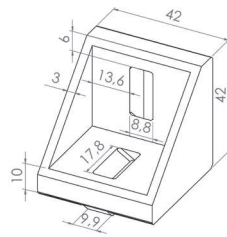
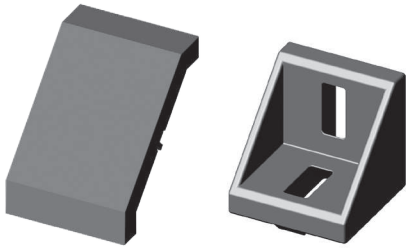


5339

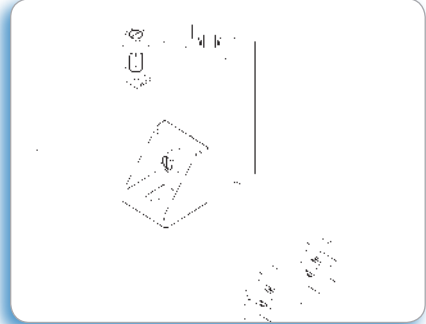


0,237

**Escuadra 42x42x42** Aluminio fundido  
**Connection angle 42x42x42** Die-cast aluminium



45



**Aplicación**

Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**

For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.



5330

escuadra sin tapeta/angle without cap



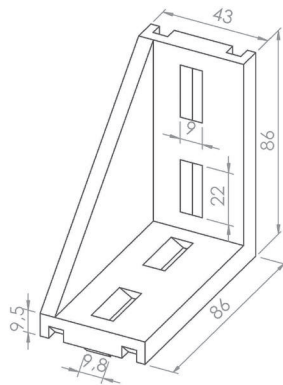
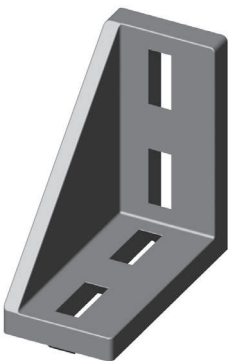
0,052

53302

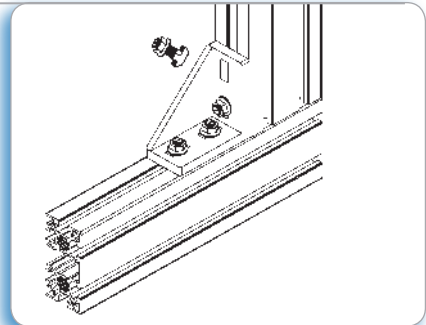
escuadra con tapeta/angle with cap

0,067

**Escuadra 86x86x43** Aluminio fundido  
**Connection angle 86x86x43** Die-cast aluminium



45  
90



**Aplicación**

Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**

For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.



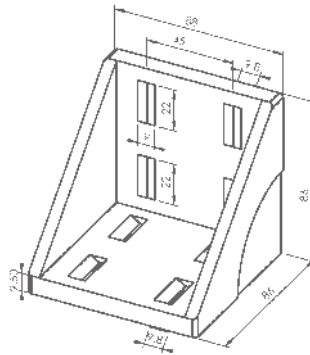
5331



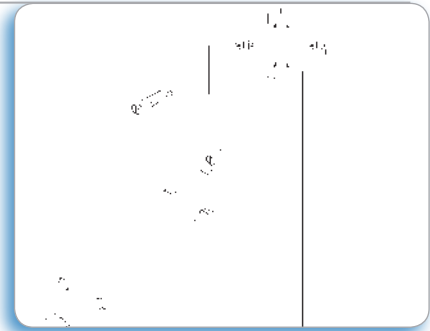
0,153



**Escuadra 86x86x88** Aluminio fundido  
**Connection angle 86x86x88** Die-cast aluminium



90°



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.

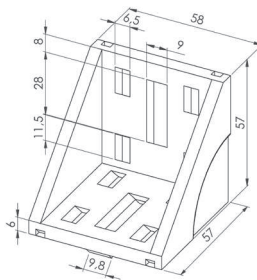
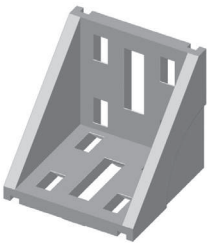


5332



0,307

**Escuadra 57x57x58** Aluminio fundido  
**Connection angle 57x57x58** Die-cast aluminium



30°

60°



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas presionando sobre ellas con un destornillador.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver.

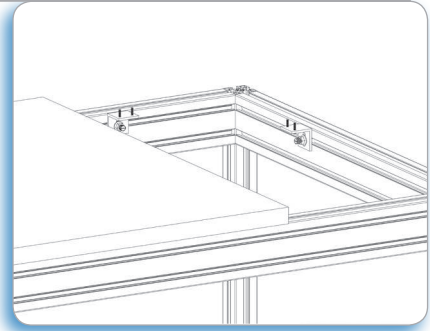
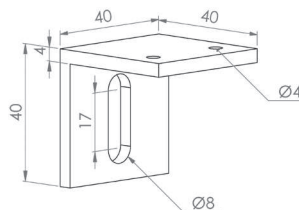


5336



0,115

**Escuadra soporte tablero** Aluminio  
**Dashboard angle** Aluminium



**Aplicación**  
Para la fijación de tableros y paneles en las mesas de trabajo. Permite cambiar fácilmente el tablero.

**Application**  
To fix board on working tables. Board can be easily be removed.



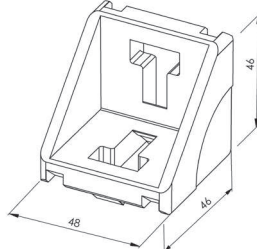
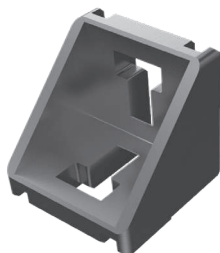
53440



0,029



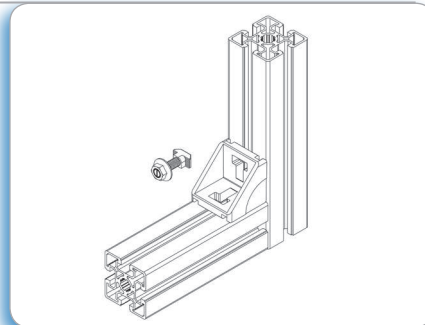
**Escuadra 46x46x48** Aluminio fundido  
**Connection angle 46x46x48** Die-cast aluminium



53305



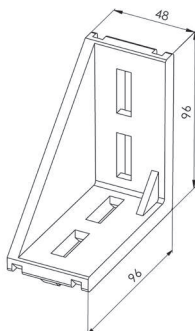
0,07



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.

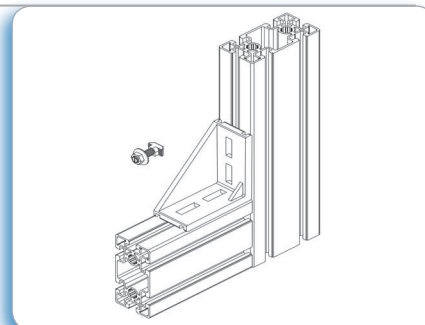
**Escuadra 96x96x48** Aluminio fundido  
**Connection angle 96x96x48** Die-cast aluminium



53306



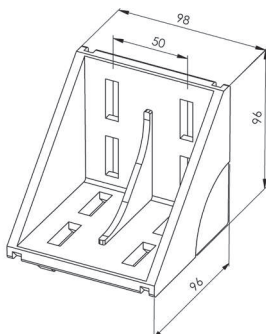
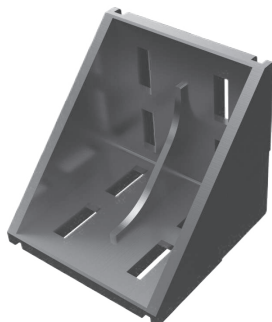
0,21



**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.

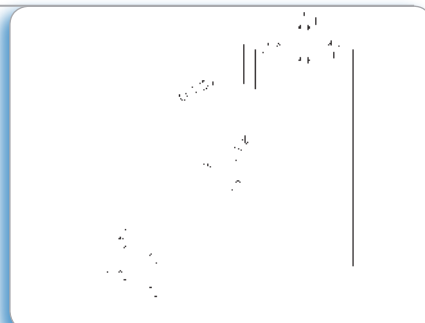
**Escuadra 96x96x98** Aluminio fundido  
**Connection angle 96x96x98** Die-cast aluminium



53307



0,46

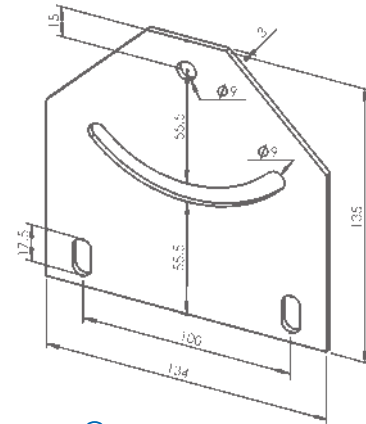
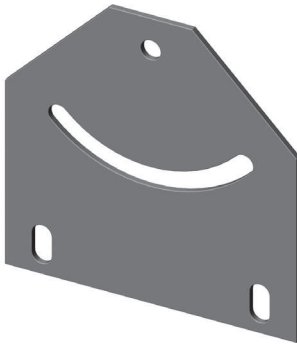


**Aplicación**  
Para la unión de perfiles a 90°. Las pestañas de posicionamiento pueden ser eliminadas. Se recomienda su fijación mediante tornillo cabeza martillo M8x25.

**Application**  
For right-angled and power-lock connection of profiles. Positioning studs can easily be removed by pressing with a screwdriver. It can be fixed to the profile using hammer head bolts M8x25.



**Placa giratoria** Acero zincado  
**Adjustable angle plate** Zinc plated steel



5321

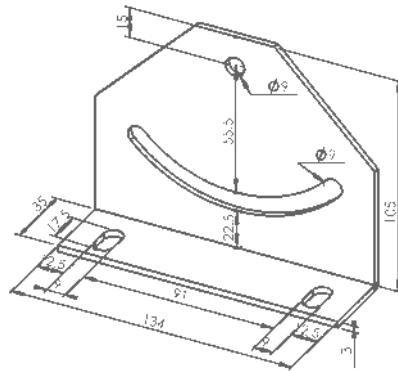
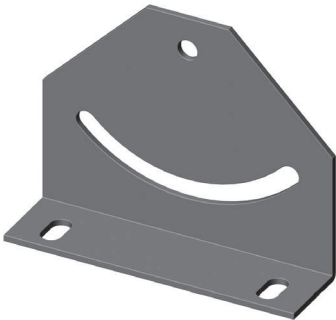
0,342



**Aplicación**  
Permite la unión de los perfiles a distintos ángulos mediante la regulación del tornillo central.

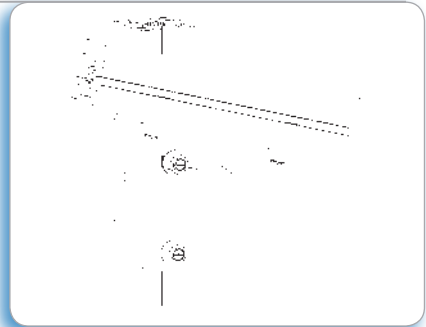
**Application**  
For the dynamic connection of profiles at different angles, adjusting the central bolt.

**Escuadra giratoria** Acero zincado  
**Adjustable angle bracket** Zinc plated steel



5320

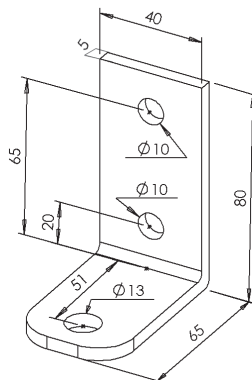
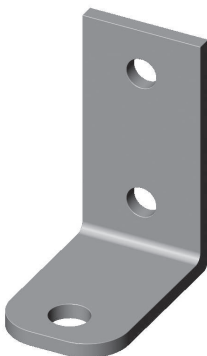
0,348



**Aplicación**  
Permite la unión de los perfiles a distintos ángulos mediante la regulación del tornillo central. De uso en estanterías y bandejas.

**Application**  
For the dynamic connection of profiles at different angles, adjusting the central bolt. For the construction of shelves, trays,...

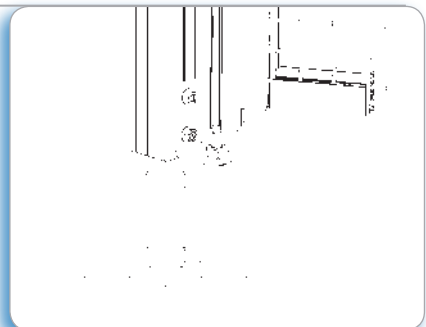
**Ángulo de sujeción para marcos de protección** Acero zincado  
**Assembly bracket for protection panels** Zinc plated steel



5322

0,203

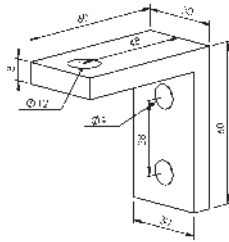
40  
45  
60



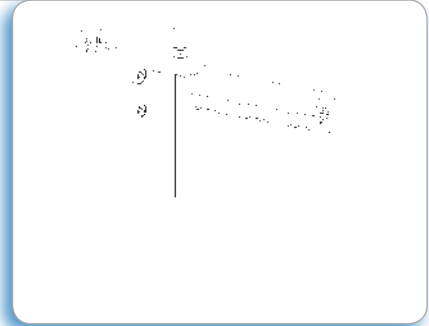
**Aplicación**  
Para la sujeción de los paneles de protección a los soportes verticales anclados al suelo. Requiere 2 tornillos cabeza martillo M8x20 y un pivote guía o un tornillo autorroscante para su fijación.

**Application**  
For fixing protection panels to vertical fencing posts. Assembly requires 2 hammer head bolts and a guiding or socket bolt.

**Ángulo de sujeción 60x60x30** Aluminio anodizado  
**Assembly bracket for protection panels** Anodized aluminium



30  
35



**Aplicación**

Permite la sujeción de los paneles de protección a los verticales. Requiere 2 tornillos cabeza martillo M8x25 para su fijación y un pivote guía o tornillo autorroscante para la fijación del panel.

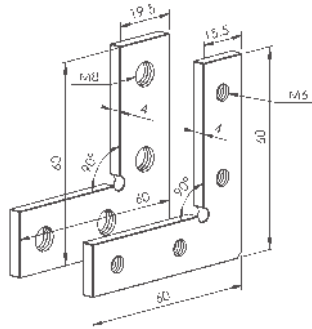
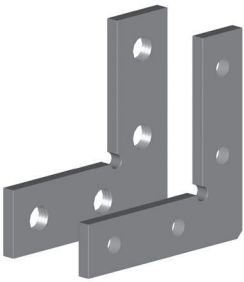
**Application**

For fixing protection panels to vertical fencing posts. Assembly requires 2 hammer head bolts and a socket bolt.

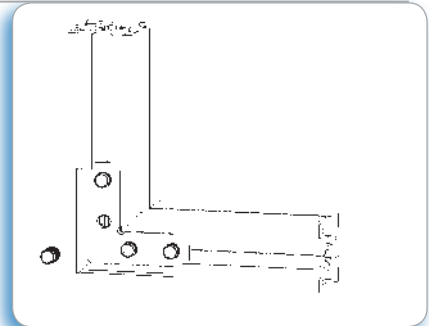
53221

0,066

**Escuadra interior 90°** Acero zincado  
**Interior corner bracket 90°** Zinc plated steel



10 mm  
8 mm



**Aplicación**

Para la unión interior de perfiles a 90°. El montaje requiere perfiles cortados en ángulo de 45°. De uso para montaje de puertas y marcos. El suministro incluye 4 espárragos de fijación.

**Application**

For the internal right-angled connection of profiles. Assembly requires end profiles cut at an angle of 45°. Used in door and frame assemblies. Standard supply includes 4 fixing screws.



5303

35/45/50/60/90

0,047

5306

30

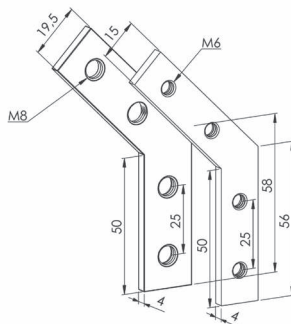
0,050

5307

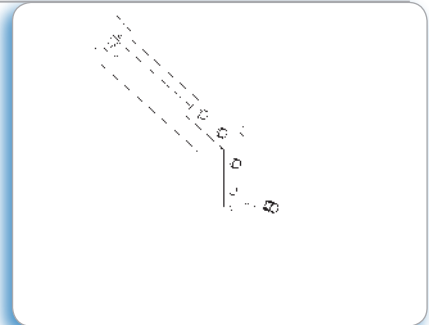
40/80

0,054

**Escuadra interior 135°** Acero zincado  
**Interior corner bracket 135°** Zinc plated steel



10 mm  
8 mm



**Aplicación**

Para la unión interior de perfiles a 90° y canal 10 mm. El montaje requiere perfiles cortados en ángulo de 67,5°. El suministro incluye 4 espárragos M8.

**Application**

For the internal connection of profiles at an angle of 135°. Assembly requires end profiles cut at an angle of 67,5°. Standard supply includes 4 M8 fixing screws.



5304

35/45/50/60/90

0,046

53042

30

0,053

53041

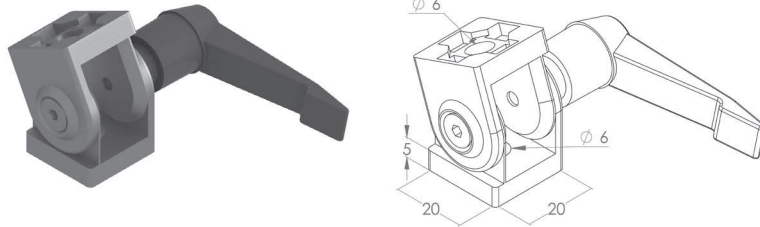
40/80

0,058



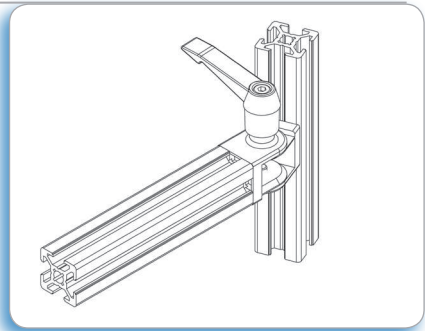
**Articulación regulable 20x20 Aluminio**  
**Pivot joint 20x20 with locking lever Aluminium**

- 20 -



53248

0,052

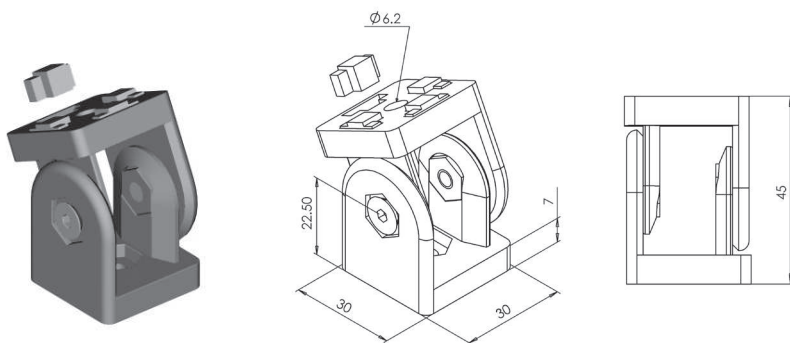


**Aplicación**  
Permite la unión de perfiles en ángulo. Posibilidad de bloqueo del ángulo mediante la empuñadura graduable.

**Application**  
For connecting profiles at various angles. The angle can be locked turning the locking lever.

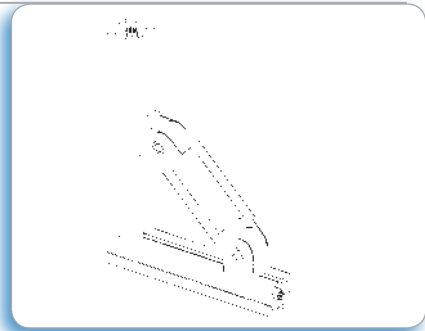
**Articulación 30x30 Aluminio**  
**Pivot joint 30x30 Aluminium**

- 30 -



53243

0,150

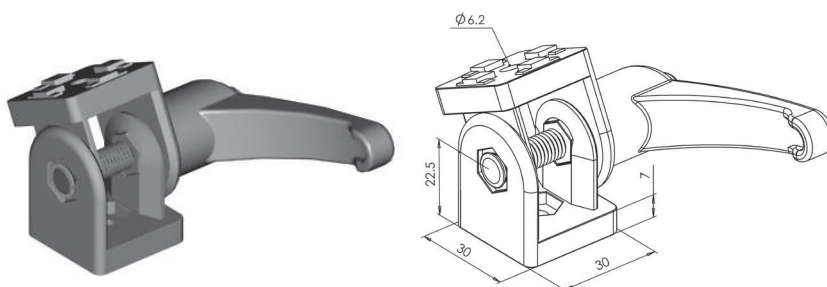


**Aplicación**  
Para la construcción de refuerzos o uniones de perfiles en ángulo.

**Application**  
As reinforcements or for connecting profiles at various angles.

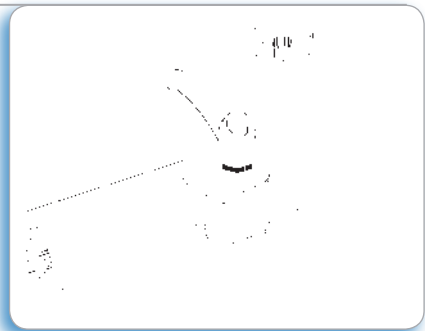
**Articulación regulable 30x30 Aluminio**  
**Pivot joint 30x30 with locking lever Aluminium**

- 30 -



53244

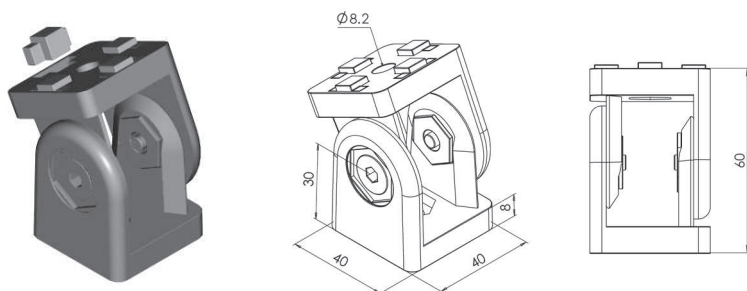
0,159



**Aplicación**  
Permite la unión de perfiles en ángulo. Posibilidad de bloqueo del ángulo mediante la empuñadura graduable.

**Application**  
For connecting profiles at various angles. The angle can be locked turning the locking lever.

**Articulación 40x40** Aluminio  
**Pivot joint 40x40** Aluminium

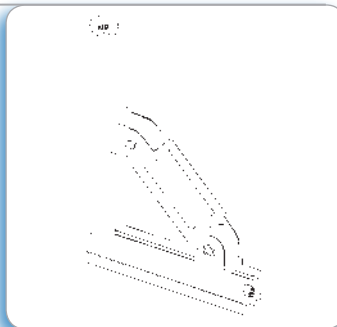


53245



0,299

40



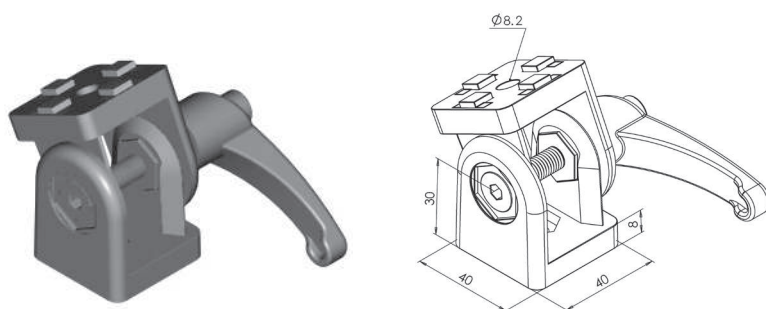
**Aplicación**

Para la construcción de refuerzos o uniones de perfiles en ángulo.

**Application**

As reinforcements or for connecting profiles at various angles.

**Articulación regulable 40x40** Aluminio  
**Pivot joint 40x40 with locking lever** Aluminium

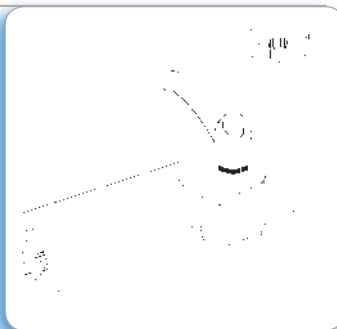


53246



0,310

40



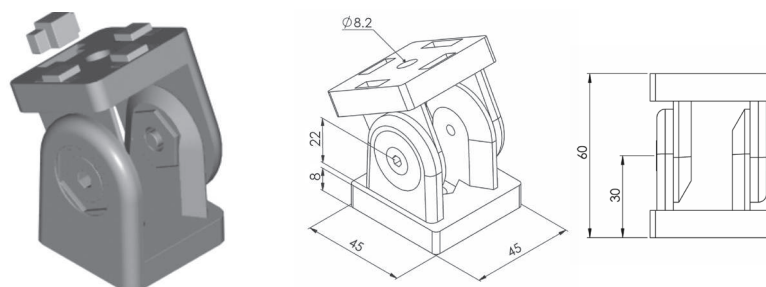
**Aplicación**

Permite la unión de perfiles en ángulo. Posibilidad de bloqueo del ángulo mediante la empuñadura graduable. Para unir al extremo de perfil, es necesario usar un casquillo reductor M12>M8 Cod. 52918.

**Application**

For connecting profiles at various angles. The angle can be locked turning the locking lever. A threaded insert M12>M8 Cod. 52918 must be used if assembled to the end of a profile.

**Articulación 45x45** Aluminio  
**Pivot joint 45x45** Aluminium

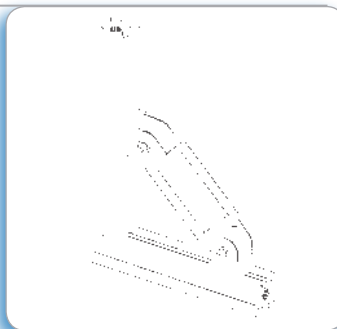


53241



0,324

45



**Aplicación**

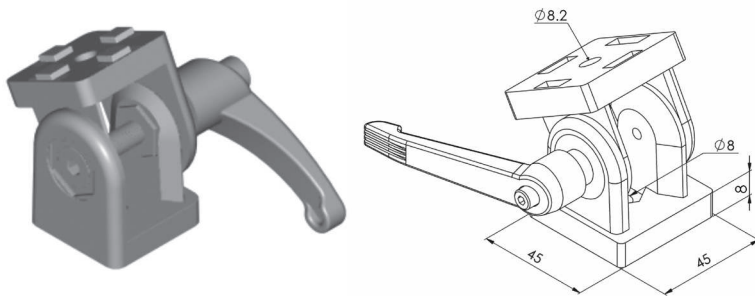
Para la construcción de refuerzos o uniones de perfiles en ángulo. Para unir al extremo de perfil, es necesario usar un casquillo reductor M12>M8 Cod. 52918.

**Application**

As reinforcements or for connecting profiles at various angles. A threaded insert M12>M8 Cod. 52918 must be used if assembled to the end of a profile.



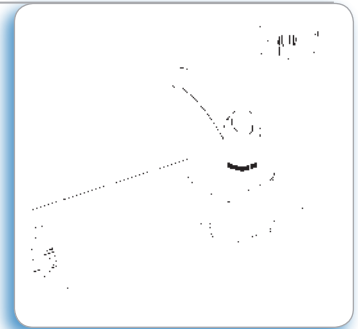
**Articulación regulable 45x45 Aluminio**  
**Pivot joint 45x45 with locking lever Aluminium**



53242

0,337

45



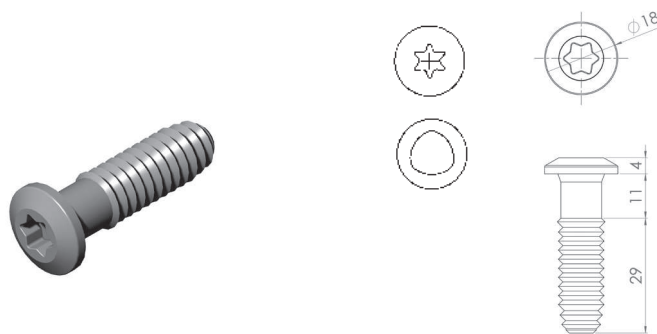
**Aplicación**

Permite la unión de perfiles en ángulo. Posibilidad de bloqueo del ángulo mediante la empuñadura graduable. Para unir al extremo del perfil, es necesario usar un casquillo reductor M12>M8 Cod. 52918

**Application**

For connecting profiles at various angles. The angle can be locked turning the locking lever. A threaded insert M12>M8 Cod. 52918 must be used if assembled to the end of a profile.

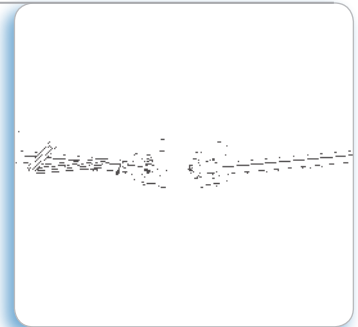
**Tornillo trilobular autorroscante TAPTITE® TORX T-50, Acero zincado**  
**Trilobular thread rolling screw TAPTITE® TORX T-50, Zinc plated steel**



53619

0,033

10 mm



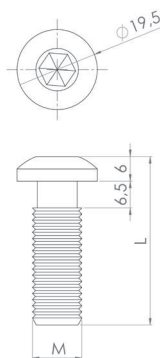
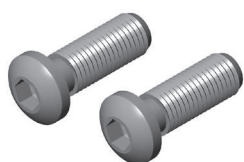
**Aplicación**

Unión económica de perfiles en perpendicular. Gran facilidad en formación de rosca (no es necesario roscar previamente el núcleo del perfil). Ensamblajes seguros y resistentes.

**Application**

Economic right-angled profile joint. Low drive torque. Safe and strong assemblies.

**Tornillo de unión Acero 8.8 zincado**  
**Socket bolt Zinc plated steel 8.8**



536112

M12x40

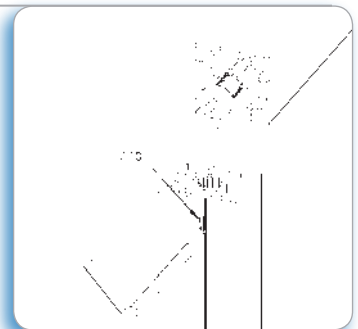
0,035

536114

M14x35

0,039

10 mm



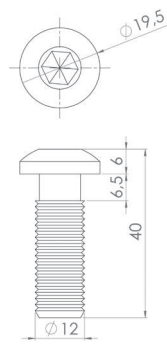
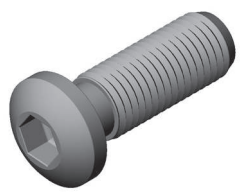
**Aplicación**

Unión económica de perfiles en perpendicular. El tornillo se rosca directamente en el núcleo central del perfil.

**Application**

Economic right-angled profile joint. Socket bolt is screwed across the central hole of the profile.

**Tornillo de unión** Acero inox. A2  
**Socket bolt** Stainless steel, A2

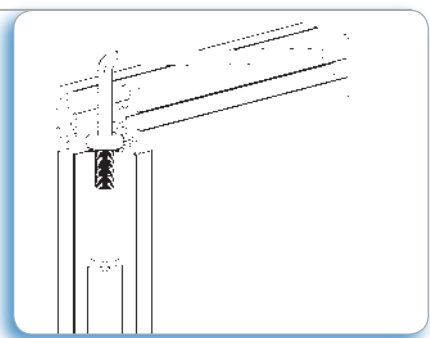
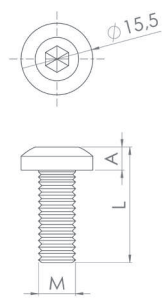
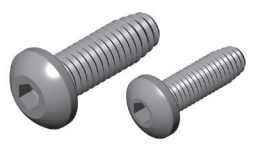


**Aplicación**  
Unión económica de perfiles en perpendicular. El tornillo se rosca directamente en el núcleo central del perfil.

**Application**  
Economic right-angled profile joint. Socket bolt is screwed across the central hole of the profile.

536012	M12x40	0,036

**Tornillo autorroscante** Acero zincado  
**Socket bolt** Zinc plated steel

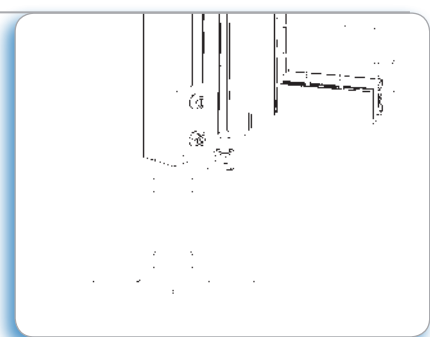
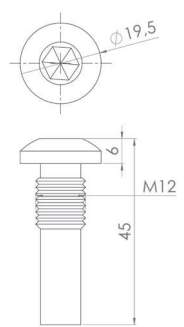
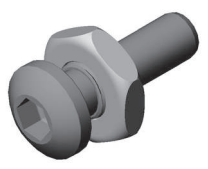


**Aplicación**  
Unión económica de perfiles en perpendicular. El tornillo se rosca directamente en el núcleo central del perfil.

**Application**  
Economic right-angled profile joint. Socket bolt is screwed across the central hole of the profile.

			A	
53618	30	M8x25	5 mm	0,012
53616	25	M6x20	3,5 mm	0,005
53615	20	M6x20	3,35 mm.	0,005

**Pivote guía para ángulo de sujeción** Acero inox. A2  
**Guiding bolt** Stainless steel, A2



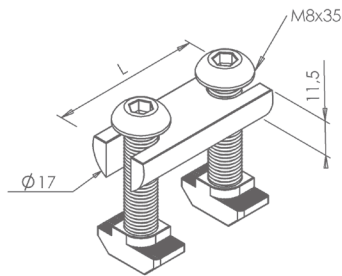
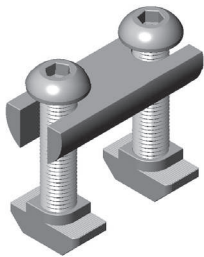
**Aplicación**  
Para la colocación de los paneles de protección sobre el ángulo de sujeción.

**Application**  
For fixing protection panels on the assembly bracket.

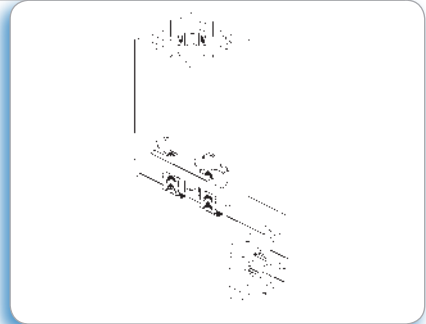
5360	0,337



**Brida de unión** Acero zincado  
**Fastening set** Zinc plated steel



10 mm



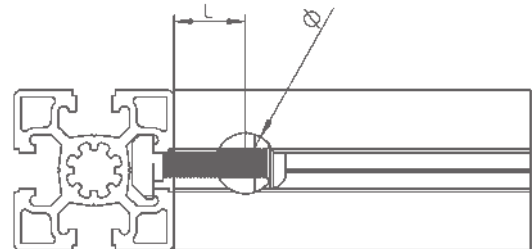
**Aplicación**

Para la unión de perfiles sometidas a fuertes cargas, movimientos, vibraciones, etc. Transmite las fuerzas de forma simétrica a la vez que impide el giro de los perfiles.

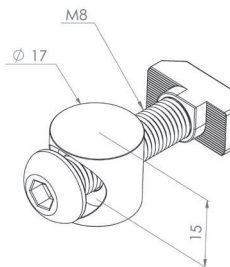
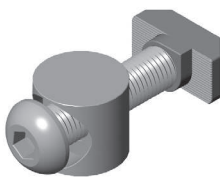
**Application**

For the right-angled connection of profiles subjected to heavy duty loads, movements, vibrations,... Enables anti-rotation along with symmetric transmission of forces.

5370	45	0,039
53740	40	0,036
53760	60	0,058
40/45/60	20 mm	17 mm



**Perno de anclaje** Acero zincado  
**Pin Connector** Zinc plated steel



10 mm



**Aplicación**

Permite la unión de perfiles en ángulo recto. Especialmente en aquellos perfiles sin núcleo central.

**Application**

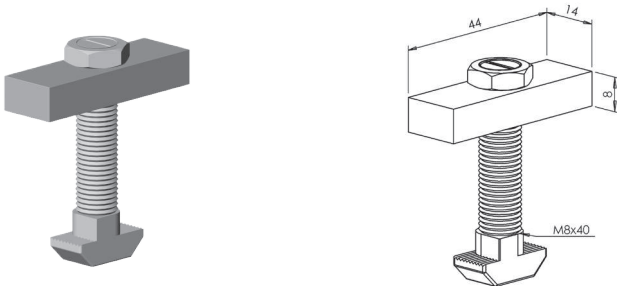
For right-angled and dynamic connection of profiles. Specially in those profiles without central hole.

5371	40/45/50/60/80/90	0,033	
40/45/50/60/80/90	40/45/50/60/80/90	22,5 mm	17 mm





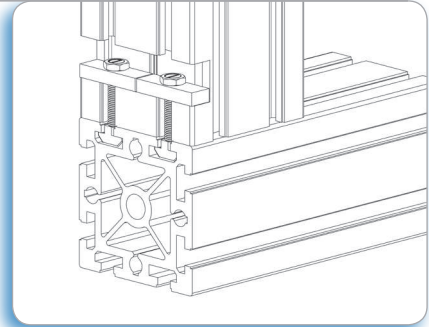
**Empalmador transversal** Acero zincado  
**Roller ball** Zinc plated steel



5373



0,034



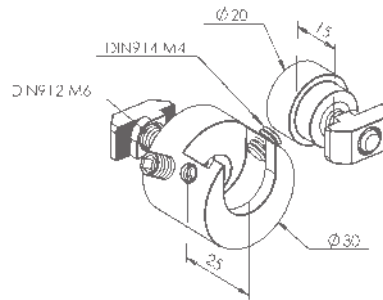
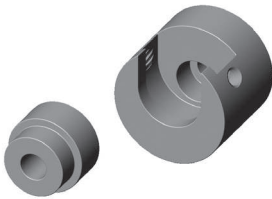
**Aplicación**

Para uniones firmes de perfiles pesados. Se necesita mecanización del perfil.

**Application**

For solid join of strong profiles. Machining is required.

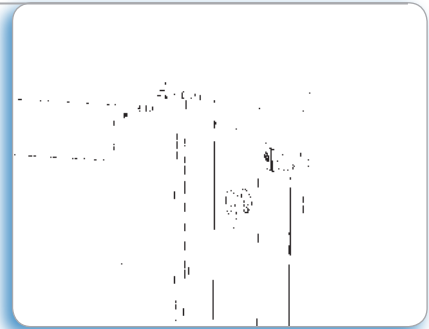
**Anclaje para panel desmontable** Acero zincado  
**Detachable panel hanger** Zinc plated steel



5211



0,107



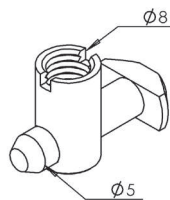
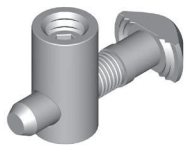
**Aplicación**

Permite montar y desmontar paneles de protección de forma rápida. El tornillo de seguridad impide que se desmonte de forma involuntaria.

**Application**

Enables a quick assembly of detachable protection panels. Security screw avoids removing panels unintentionally.

**Conector perpendicular, canal 6mm** Acero zincado  
**Perpendicular joint, 6 mm slot** Zinc plated steel



535020



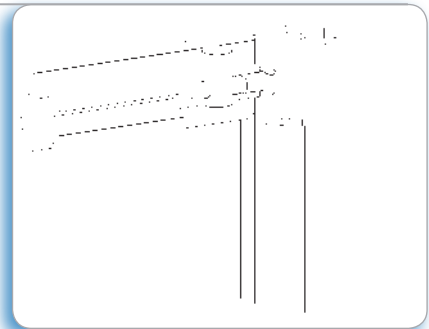
8,1 mm



10,2 mm.



0,007

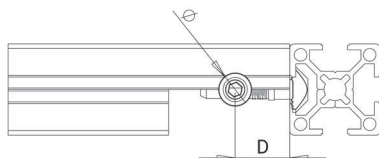


**Aplicación**

Permite la unión de perfiles en ángulo recto. La orientación del casquillo es perpendicular a la cabeza del martillo del vástago. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

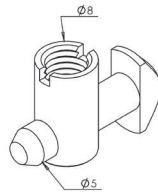
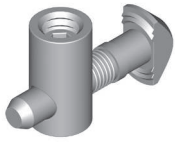
**Application**

For right-angled and dynamic connection of profiles. Clamping cylinder is oriented perpendicular to the T-head rod. Profiles can be connected sideways at any point of the profile slot.

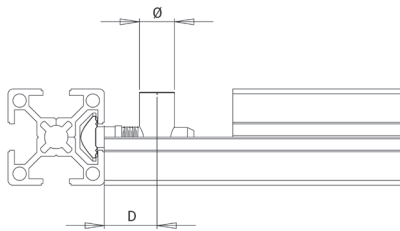




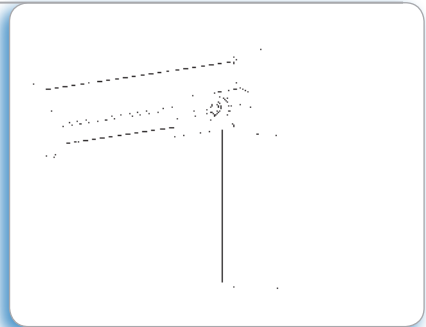
**Conector paralelo, canal 6mm** Acero zincado  
**Parallel joint, 6 mm slot** Zinc plated steel



535120	8,1 mm	10,2 mm.	0,007



20  
25



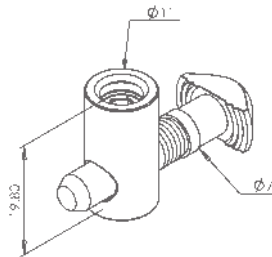
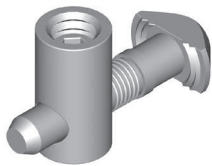
**Aplicación**

Permite la unión de perfiles en ángulo recto. La orientación del casquillo es paralelo a la cabeza del martillo del vástago. Posibilidad de inserción desde cualquier parte del perfil mediante giro

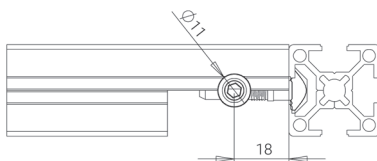
**Application**

For right-angled and dynamic connection of profiles. Clamping cylinder is oriented parallel to the T-head rod. Profiles can be connected sideways at any point of the profile slot

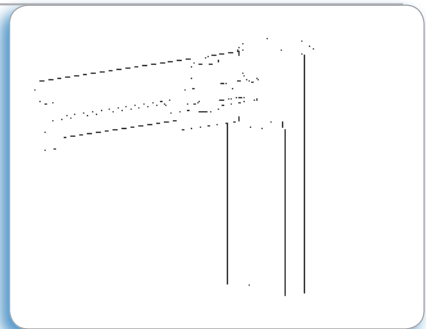
**Conector perpendicular, canal 8mm** Acero zincado  
**Perpendicular joint, 8 mm slot** Zinc plated steel



535030	11 mm	0,020



30



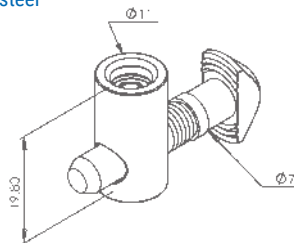
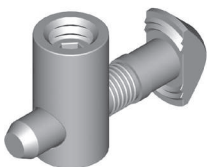
**Aplicación**

Permite la unión de perfiles en ángulo recto. La orientación del casquillo es perpendicular a la cabeza del martillo del vástago.

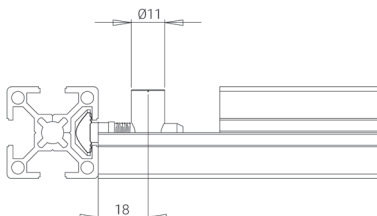
**Application**

For right-angled and dynamic connection of profiles. Clamping cylinder is oriented perpendicular to the T-head rod.

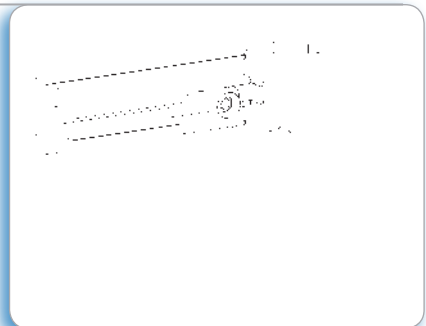
**Conector paralelo, canal 8 mm** Acero zincado  
**Parallel joint, 8 mm slot** Zinc plated steel



535130	11 mm	0,020



30



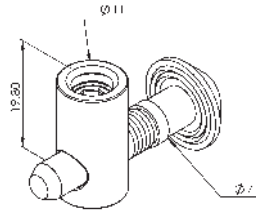
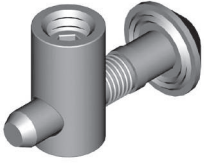
**Aplicación**

Permite la unión de perfiles en ángulo recto. La orientación del casquillo es paralelo a la cabeza del martillo del vástago. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

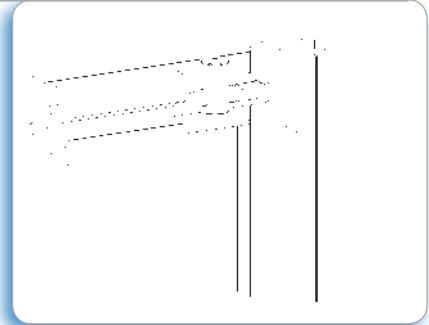
**Application**

For right-angled and dynamic connection of profiles. Clamping cylinder is oriented parallel to the T-head rod. Profiles can be connected sideways at any point of the profile slot.

**Conector cabeza redonda, canal 8 mm** Acero zincado  
**Round head joint, 8 mm slot** Zinc plated steel



30°



**Aplicación**

Para la unión de perfiles en ángulo recto. Permite la orientación del casquillo en cualquier posición. Debe ser introducido desde el extremo del perfil.

**Application**

For right-angled and dynamic connection of profiles. Clamping cylinder can be oriented at any position. It must be inserted from the from of the profile slot.



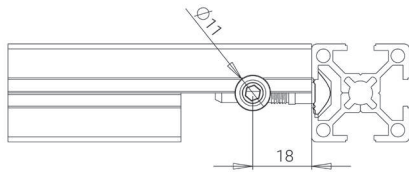
535230

∅ Taladro / Drill

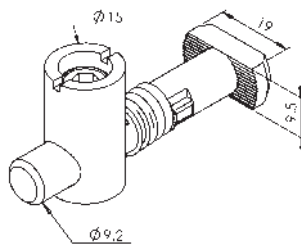
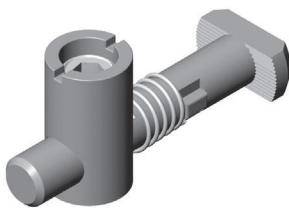
11mm



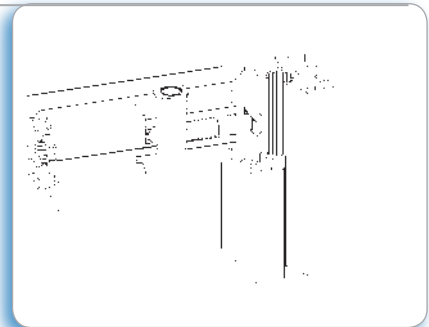
0,021



**Conector perpendicular, canal 10 mm** Acero zincado  
**Perpendicular joint, 10 mm slot** Zinc plated steel



10 mm



**Aplicación**

Permite la unión de perfiles en ángulo recto. La orientación del casquillo es perpendicular a la cabeza de martillo del vástago. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

**Application**

For right-angled and dynamic connection of profiles. Clamping cylinder is oriented perpendicular to the T-head rod. Profiles can be connected sideways at any point of the profile slot.



5350

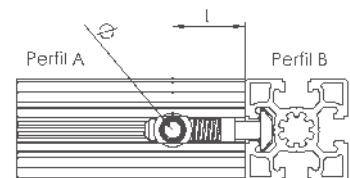


35/40/45/50/60/80/90



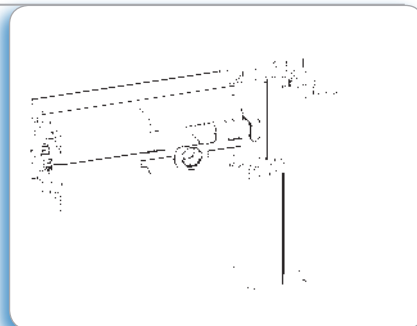
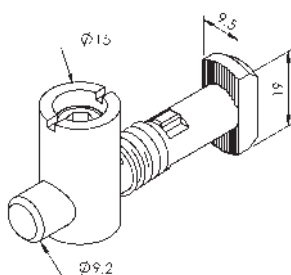
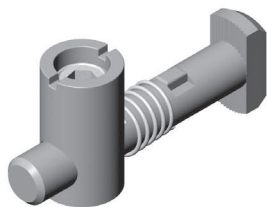
0,054

A	B	L	∅
35	35	37 mm	15 mm
40	40	33 mm	15 mm
45	45	33 mm	15 mm





**Conector paralelo, canal 10 mm** Acero zincado  
**Parallel joint, 10 mm slot** Zinc plated steel



**Aplicación**

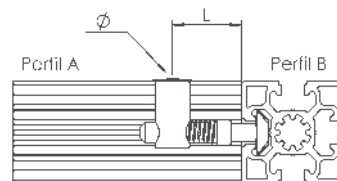
Permite la unión de perfiles en ángulo recto. La orientación del casquillo es paralelo a la cabeza de martillo del vástago. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

**Application**

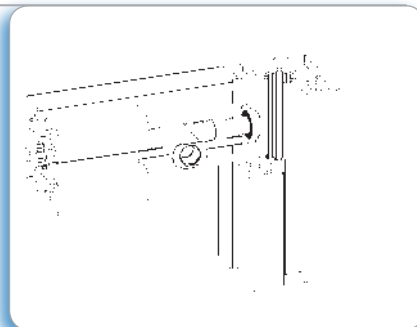
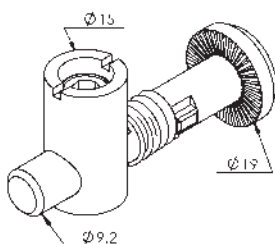
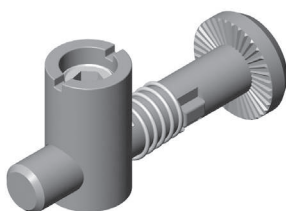
For right-angled and dynamic connection of profiles. Clamping cylinder is oriented parallel to the T-head rod. Profiles can be connected sideways at any point of the profile slot.

5351	35/40/45/50/60/80/90	0,054

35	35	37 mm	15 mm
40	40	33 mm	15 mm
45	45	33 mm	15 mm



**Conector cabeza redonda, canal 10 mm** Acero zincado  
**Round head joint, 10 mm slot** Zinc plated steel



**Aplicación**

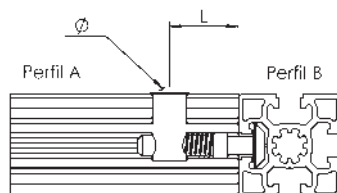
Para la unión de perfiles en ángulo recto. Permite la orientación del casquillo en cualquier posición. Debe ser introducido desde el extremo del perfil.

**Application**

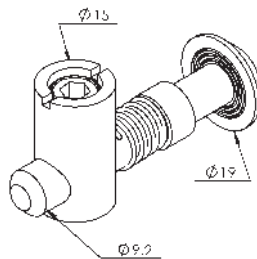
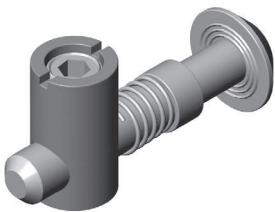
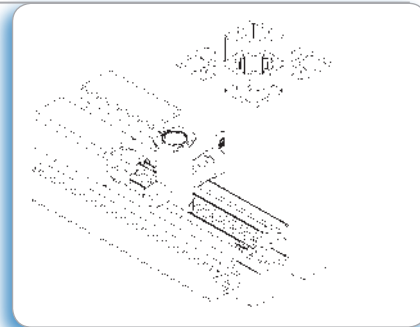
For right-angled and dynamic connection of profiles. Clamping cylinder can be oriented at any position. It must be inserted from the front of the profile slot.

5352	35/40/45/50/60/80/90	0,056

35	35	37 mm	15 mm
40	40	33 mm	15 mm
45	45	33 mm	15 mm



**Conector cabeza redonda corto, canal 10 mm** Acero zincado  
**Round head short joint, 10 mm slot** Zinc plated steel



**Aplicación**

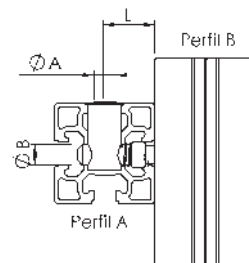
Para la unión frontal de perfiles en cruz, permite la orientación del casquillo en cualquier posición. Debe ser introducido desde el extremo del perfil.

**Application**

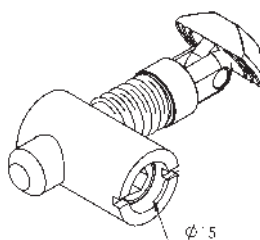
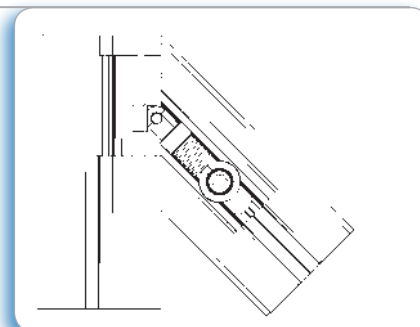
For cross joint of profiles. It must be inserted from the front of the profile slot.

535840	40/80		0,048
5358	45/90		0,056

40	40/45/50/60/80/90	20 mm	15 mm
45	40/45/50/60/80/90	22,5 mm	15 mm



**Conector articulado canal 10 mm** Acero zincado  
**Articulated joint, 10 mm slot** Zinc plated steel



**Aplicación**

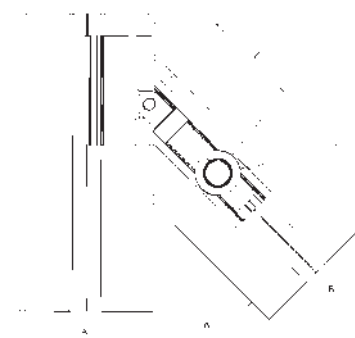
Para la unión de perfiles en ángulo. Posibilidad de inserción desde cualquier parte del perfil mediante giro.

**Application**

For the dynamic connection of profiles in angle. Profiles can be connected sideways at any point of the profile slot.

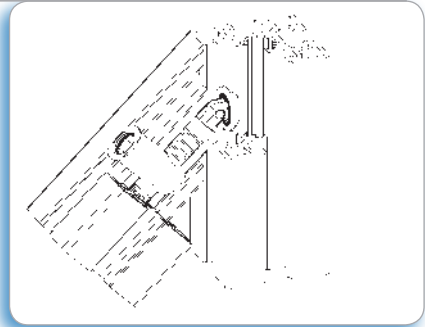
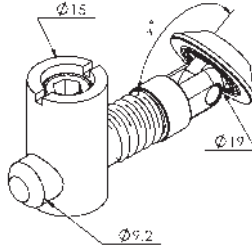
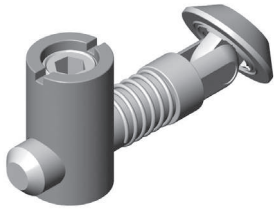
53551	35/40/45/50/60/80/90		0,053

		$\alpha^\circ$		
35	35	45°	39 mm	15 mm
40	40	45°	35 mm	15 mm
45	45	45°	35 mm	15 mm
60	60	45°	35 mm	15 mm





**Conector articulado cabeza redonda, canal 10 mm** Acero zincado  
**Round head articulated joint, 10 mm slot** Zinc plated steel



**Aplicación**

Para la unión de perfiles en ángulo. La orientación del casquillo es paralela al ángulo de giro del conector. Debe ser introducido desde el extremo del perfil.

**Application**

For the dynamic connection of profiles at an angle of 45°-90°. Clamping cylinder is oriented parallel to the rotation angle. It must be inserted from the front of the profile slot.



5355



35/40/45/50/60/80/90



0,058



35



35

$\alpha^\circ$

45°



59 mm

$\varnothing$

15 mm

40

40

45°

58 mm

15 mm

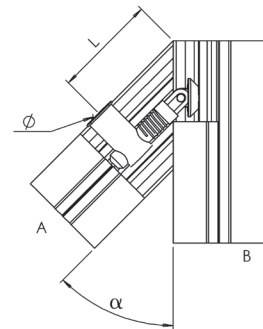
45

45

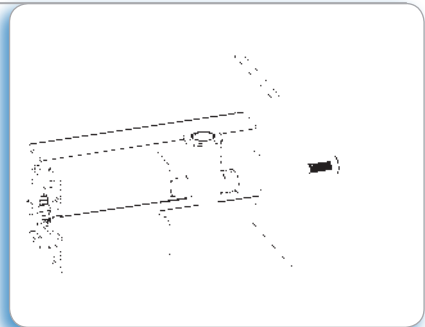
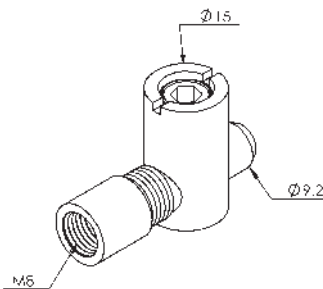
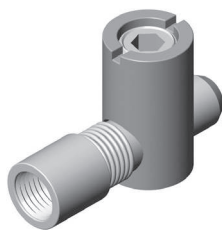
45°

60 mm

15 mm



**Conector con rosca M8, canal 10 mm** Acero zincado  
**Internal M8 thread joint, 10 mm slot** Zinc plated steel



**Aplicación**

Permite la unión de perfiles con todo tipo de paneles o superficies. Permite la orientación del casquillo en cualquier posición.

**Application**

For fixing profiles to any panel or surface. Clamping cylinder can be oriented at any position.



5354



35/40/45/50/60/80/90



0,040



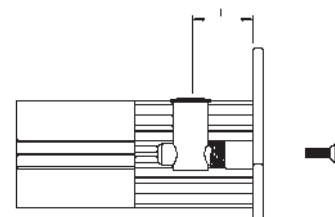
35/40/45/60/80/90



30 mm

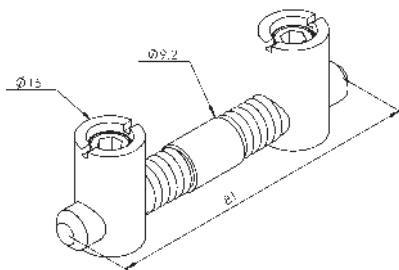
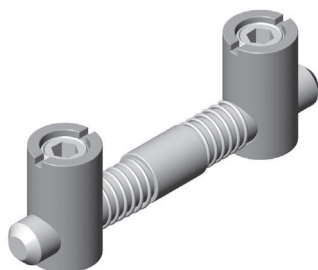
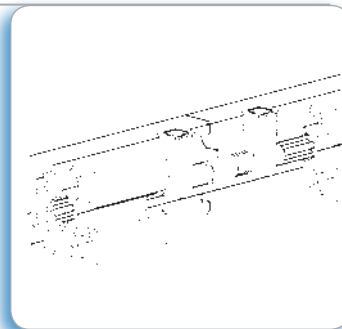


15 mm



**Conector doble, canal 10 mm** Acero zincado  
**Butt joint, 10 mm slot** Zinc plated steel

10 mm



**Aplicación**  
Para la unión de perfiles de forma segura.

**Application**  
For a secure connection of profiles.



5353



35/40/45/50/60/80/90



0,086



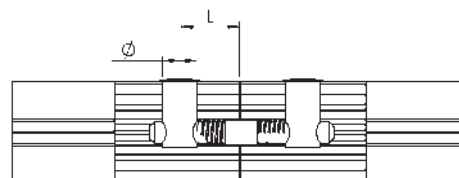
35/40/45/60/80/90



28 mm

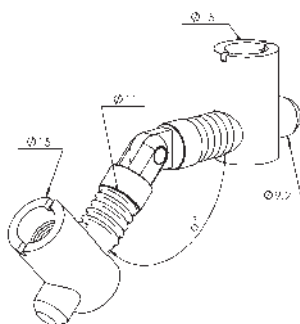
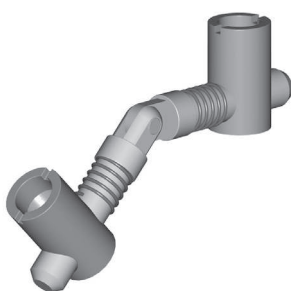
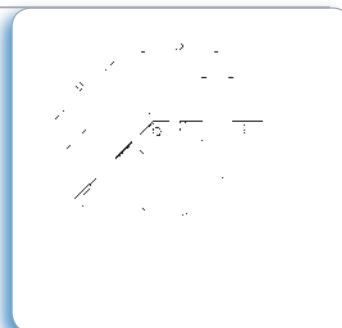


15 mm



**Conector doble articulado, canal 10 mm** Acero zincado  
**Articulated butt joint, 10 mm slot** Zinc plated steel

10 mm



**Aplicación**  
Para la unión longitudinal segura de perfiles a distintos ángulos.

**Application**  
For a secure longitudinal connection of profiles at different angles.



5359



35/40/45/50/60/80/90



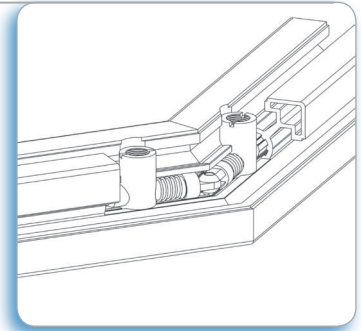
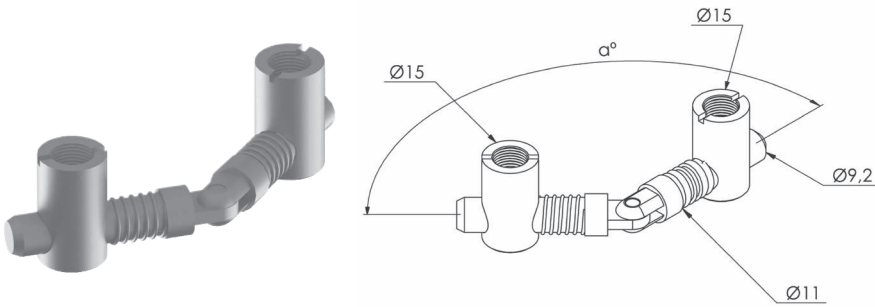
0,088

L1	L2	$\alpha^\circ$	$\varnothing$
45	45	135	15
43	43	135	15
41	41	135	15



**Conector 90° lateral, canal 10 mm** Acero zincado  
**Lateral 90° joint, 10 mm slot** Zinc plated steel

10 mm



**Aplicación**  
Para la unión de perfiles a 90°. La orientación del casquillo es lateral. De uso para montaje de puertas y marcos.

**Application**  
For the right-angled connection of profiles. Clamping cylinder is oriented sideways.



5356



35/40/45/50/60/80/90



0,088



45



60



15 mm

40

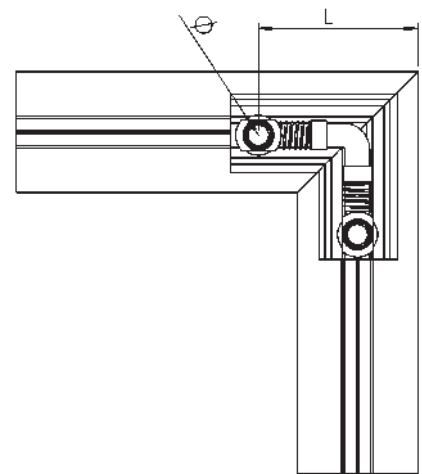
59

15 mm

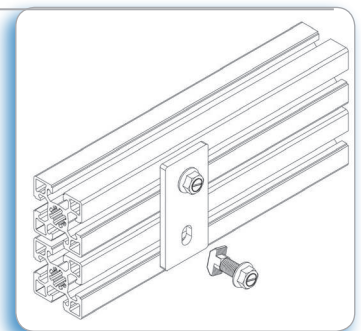
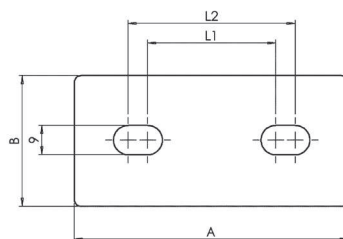
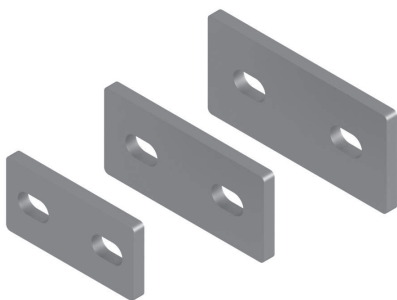
35

56

15 mm



**Pletina de unión** Acero zincado  
**Joint plate** Zinc plated steel



**Aplicación**  
Para la unión de perfiles en paralelo. Tornillería no incluida.

**Application**  
For a parallel joint of profiles. Screws not included.



5323



45

A

84

B

40

L1

39

L2

51



0,13

53231

40

75

35

34

46

0,11

53233

30

60

30

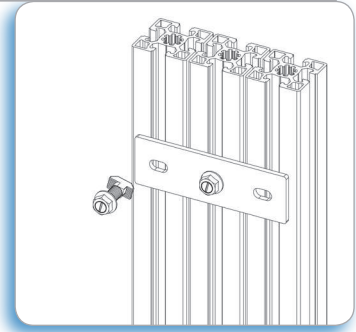
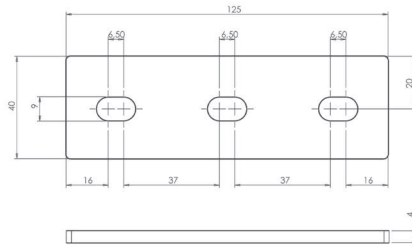
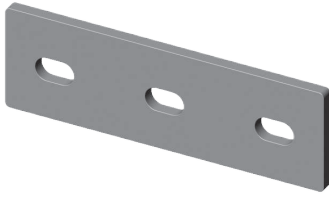
29

41

0,061



**Pletina de unión triple** Acero zincado  
**3 profiles Join plate** Zinc plated steel



**Aplicación**  
Para la unión de 3 perfiles en paralelo.  
Tornillería no incluida

**Application**  
For a parallel joint of 3 profiles.  
Screws not included

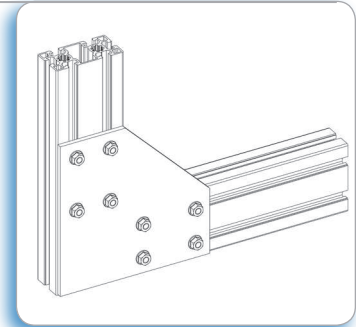
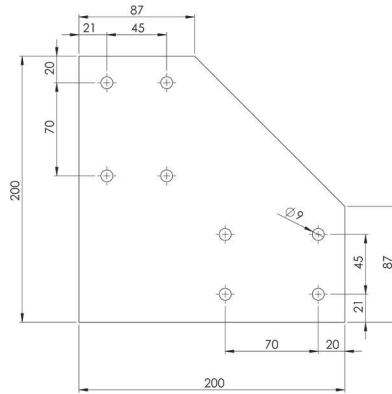


53232



0,180

**Placa de refuerzo** Acero zincado  
**Reinforcement plate** Zinc plated



**Aplicación**  
Para reforzar las uniones críticas entre perfiles.  
Se puede realizar con posterioridad a la unión  
de los perfiles. Espesor de 4 mm.  
Tornillería no incluida.

**Application**  
Suitable for the reinforcement of critical joints  
between profiles. Assembly can be made after  
fixing the profiles. 4 mm thickness.  
Screws not included.

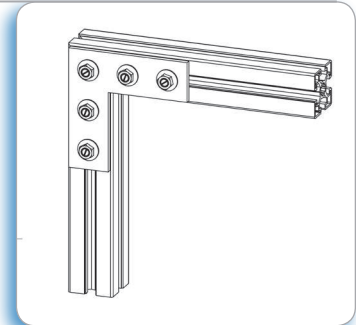
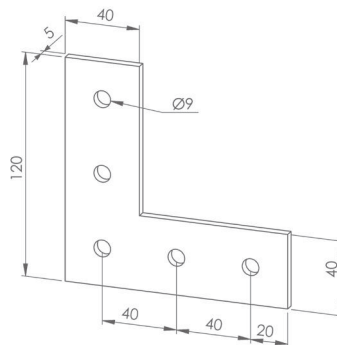
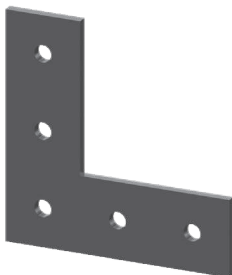


53250



1,030

**Pletina refuerzo 90°** Acero zincado  
**Reinforcement plate 90°** Zinc plated



**Aplicación**  
Para reforzar la unión entre perfiles sometidos a  
grandes cargas.

**Application**  
For the reinforcement of profile joints with heavy  
loads.



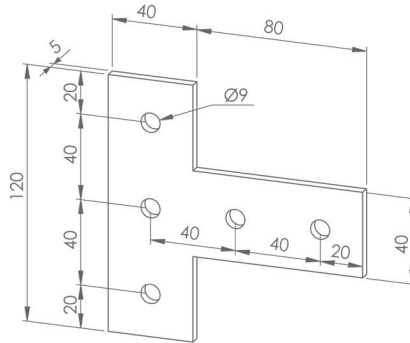
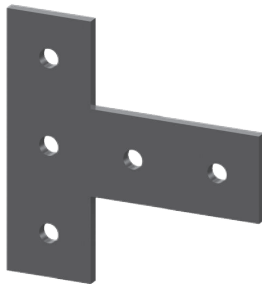
53234



0,3

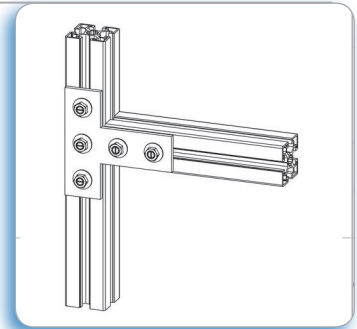


**Pletina refuerzo en T** Acero zincado  
**Reinforcement plate T** Zinc plated



53235

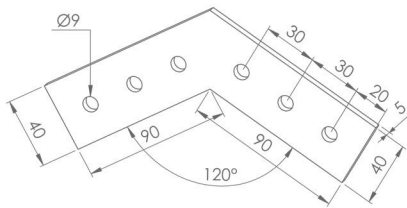
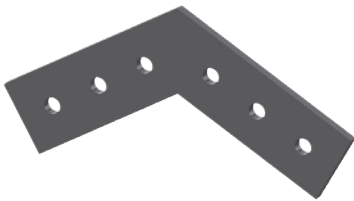
0,3



**Aplicación**  
Para reforzar la unión entre perfiles sometidos a grandes cargas.

**Application**  
For the reinforcement of profile joints with heavy loads.

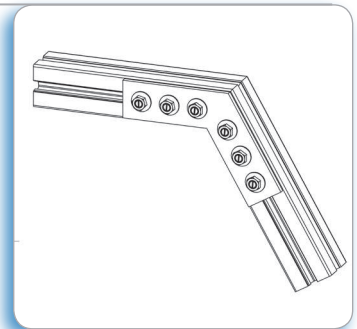
**Pletina refuerzo en ángulo** Acero zincado  
**Reinforcement angle plate** Zinc plated



53236

0,3

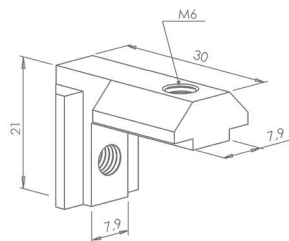
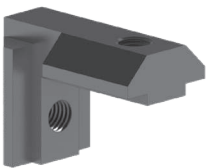
**Otros ángulos consultar**  
**Other angles upon request**



**Aplicación**  
Para reforzar la unión entre perfiles sometidos a grandes cargas.

**Application**  
For the reinforcement of profile joints with heavy loads.

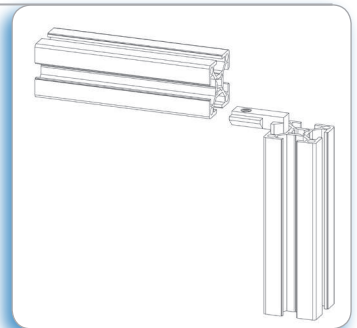
**Angulo interno (interior-interior)** Inyección de zinc  
**Internal Angle (interior-interior)** Die-cast zinc



537730

M6

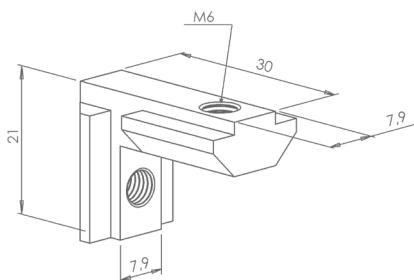
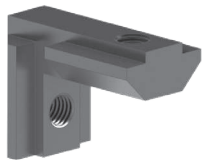
0,023



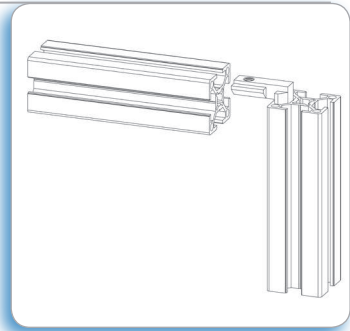
**Aplicación**  
Para la unión de perfiles en ángulo recto. Permite panelar. No necesita mecanización. Espárragos M6 incluidos.

**Application**  
For right-angled connection of profiles. Panels can be inserted in the slot. No machining needed. Screws M6 included.

**Angulo interno (interior-exterior)** Inyección de zinc  
**Internal Angle (interior-exterior)** Die-cast zinc



30

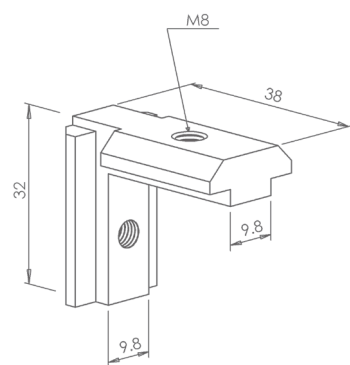
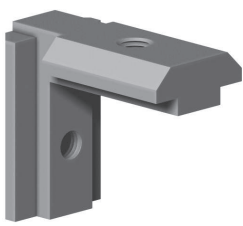


-   
537830
-   
M6
-   
0,024

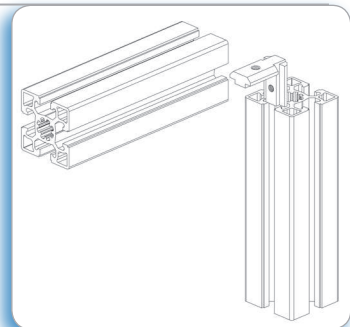
**Aplicación**  
Para la unión de perfiles en ángulo recto. Permite panelar, No necesita mecanización. Espárragos M6 incluidos.

**Application**  
For right-angled connection of profiles. Profiles can be inserted in the slot. No machining needed. Screws M6 included.

**Angulo interno (interior-interior)** Inyección de zinc  
**Internal Angle (interior-interior)** Die-cast zinc



40  
45  
60

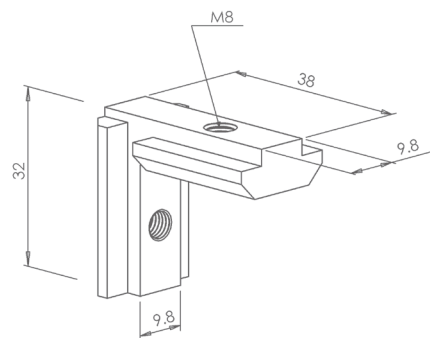
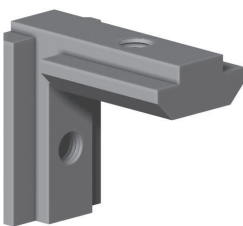


-   
5377
-   
M8
-   
0,043

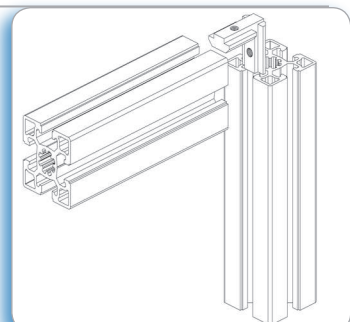
**Aplicación**  
Para la unión de perfiles en ángulo recto. Permite panelar. No necesita mecanización. Espárragos M8 incluidos.

**Application**  
For right-angled connection of profiles. Panels can be inserted in the slot. No machining needed. Screws M8 included.

**Angulo interno (interior-exterior)** Inyección de zinc  
**Internal Angle (interior-exterior)** Die-cast zinc



40  
45  
60

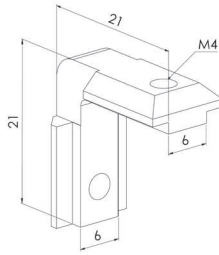
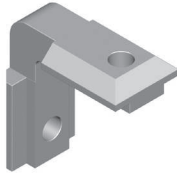


-   
5378
-   
M8
-   
0,015

**Aplicación**  
Para la unión de perfiles en ángulo recto. Permite panelar. No necesita mecanización. Espárragos M8 incluidos.

**Application**  
For right-angled connection of profiles. Panels can be inserted in the slot. No machining needed. Screws M8 included.

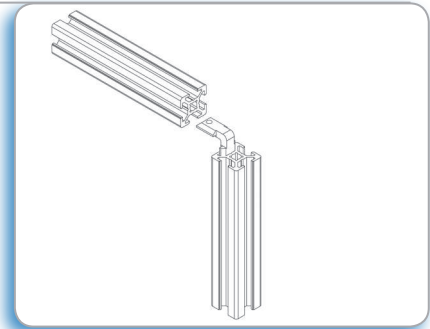
**Ángulo interno (interior-interior)** Inyección de zinc  
**Internal angle** Die-cast zinc



537720

M4

0,008



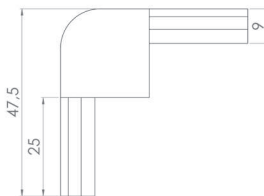
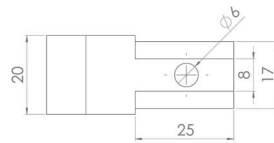
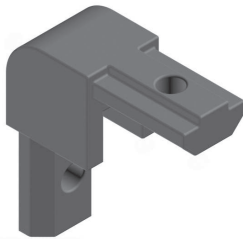
**Aplicación**

Para la unión de perfiles en ángulo recto. No necesita mecanización. Espárragos M4 incluidos.

**Application**

For right-angled connection of profiles. No machining needed. Screws M4 included.

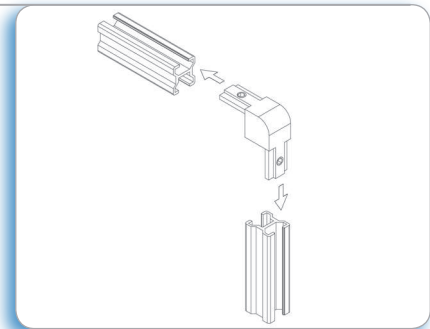
**Ángulo de unión perfil marco 20x22,5** Poliamida reforzada  
**Assembly bracket frame profile 20x22,5** Fibreglass reinforced nylon



53304

M6

0,02



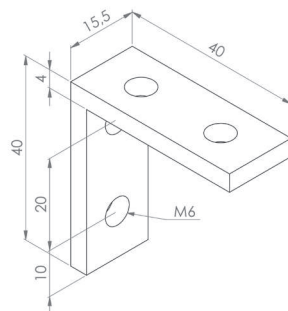
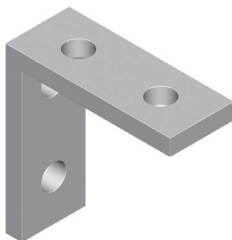
**Aplicación**

Para la unión de perfiles marco 20x22,5 cod.50946. Para su montaje, el perfil debe ser cortado en ángulo recto.

**Application**

Used for the assembly of frame profiles 20x22,5 cod. 50946. Profiles must be cut at a right angle.

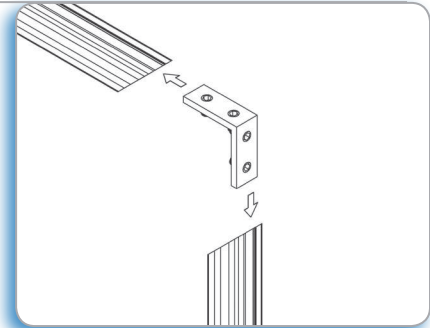
**Escuadra de unión perfil marco 20x22,5** Aluminio anodizado  
**Connection angle frame profile 20x22,5** Anodized aluminium



53303

M6

0,013



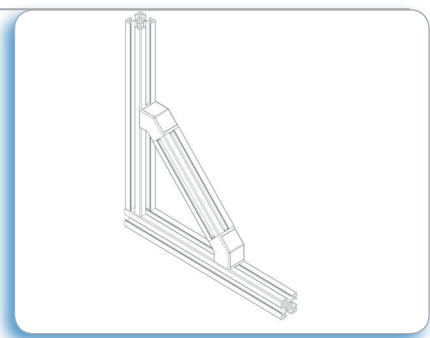
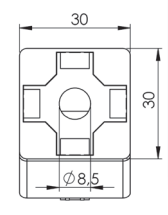
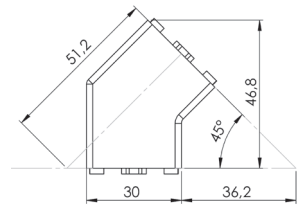
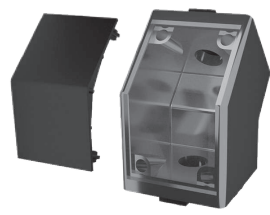
**Aplicación**

Para la unión de perfiles marco 20x22,5 cod.50946. Para su montaje, el perfil debe ser cortado en ángulo de 45°.

**Application**

Used for the assembly of 20x22,5 frame profiles cod. 50946. Profiles must be cut at 45° angle.

**Empalmador 45° 30x30** Inyección de zinc  
**Connector angle 45° 30x30** Die-cast zinc



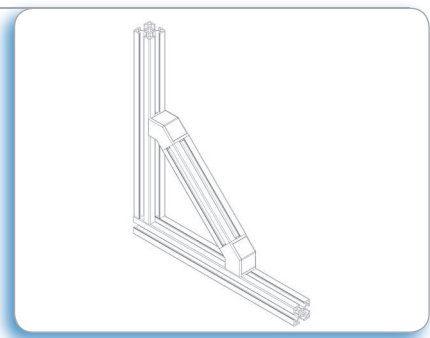
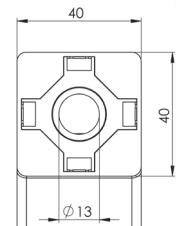
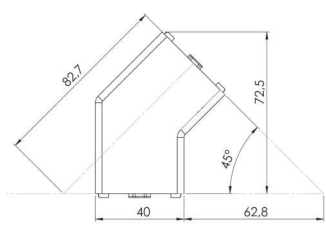
**Aplicación**  
Para unir dos perfiles de aluminio a 45°.  
Incluye tapeta

**Application**  
To connect two aluminium profiles at 45°.  
Cover included

5376

0,045

**Empalmador 45° 40x40** Inyección de zinc  
**Connector angle 45° 40x40** Die-cast zinc



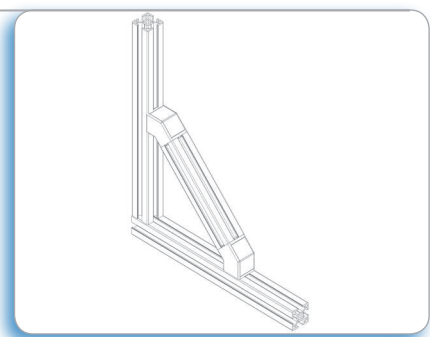
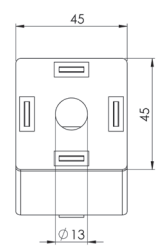
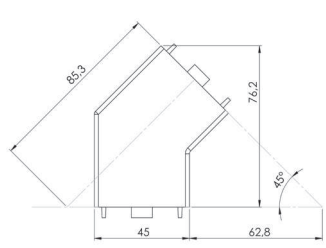
**Aplicación**  
Para unir dos perfiles de aluminio a 45°.  
Incluye tapeta

**Application**  
To connect two aluminium profiles at 45°.  
Cover included

5375

0,12

**Empalmador 45° 45x45** Inyección de zinc  
**Connector angle 45° 45x45** Die-cast zinc



**Aplicación**  
Para unir dos perfiles de aluminio a 45°.  
Incluye tapeta

**Application**  
To connect two aluminium profiles at 45°.  
Cover included

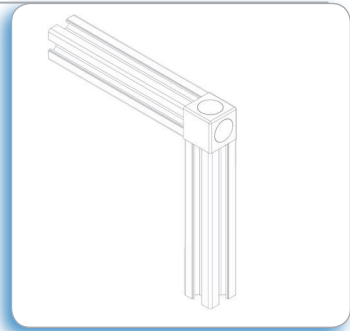
5374

0,15



**Unión cubo 2 salidas** Inyección de zinc  
**Joining cube 2 exits** Die-cast zinc

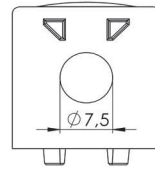
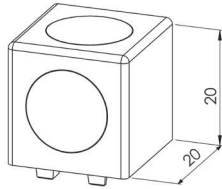
- 20
- 30
- 40
- 45



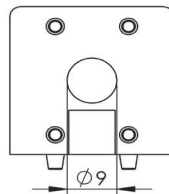
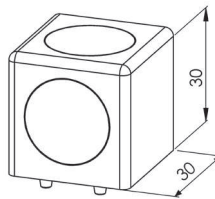
**Aplicación**  
Para unir dos perfiles en angulo recto. Tapas y tornillos de unión incluidos.

**Application**  
To connect two aluminium profiles at right angles. Caps and screws included.

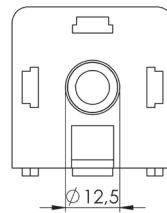
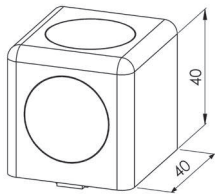
**20x20**



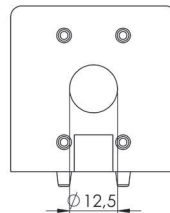
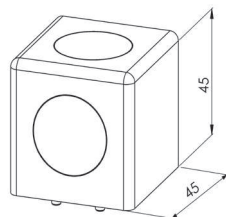
**30x30**






**40x40**



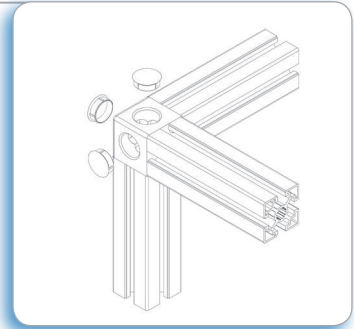
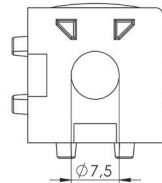
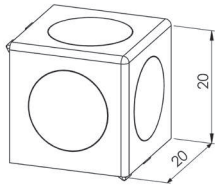
**45x45**



		
5394	20x20	0,03
5393	30x30	0,05
5392	40x40	0,09
5391	45x45	0,15

**Unión cubo 3 salidas** Inyección de zinc  
**Joining cube 3 exits** Die-cast zinc

**20x20**



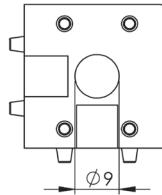
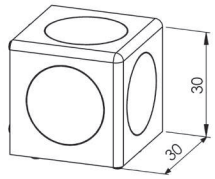
**Aplicación**

Para unir tres perfiles en angulo recto. Tapas y tornillos de unión incluidos

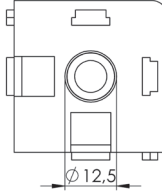
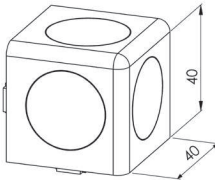
**Application**

To connect three aluminium profiles at right angles. Caps and screws included.

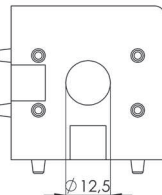
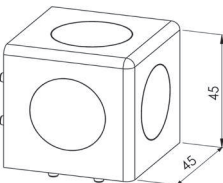
**30x30**






**40x40**



**45x45**

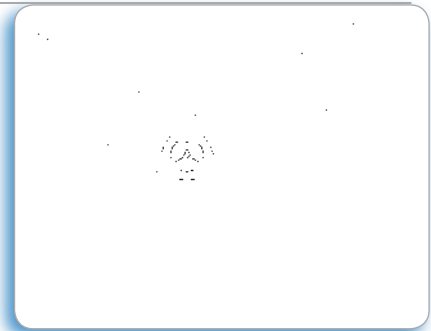
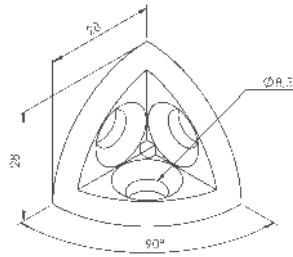


		
5384	20x20	0,03
5383	30x30	0,05
5382	40x40	0,09
5381	45x45	0,15



**Ángulo de triple unión, perfil 30** Inyección de zinc  
**Triple connection angle, profile 30** Die-cast zinc

30



**Aplicación**  
Para la unión de 3 perfiles en ángulo recto.  
El suministro incluye 3 tornillos de fijación.

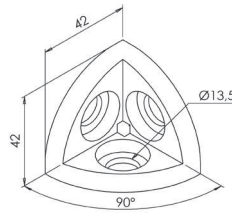
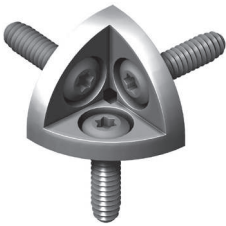
**Application**  
For the right-angled connection of 3 profiles.  
Standard supply includes 3 fixing screws.

ÁNGULO/ANGLE	kg
5337	0,040

TAPETA/END COVER	kg
55013 redonda/round	0,003
55016 cuadrada/square	0,005

**Ángulo de triple unión, perfil 45** Inyección de zinc  
**Triple connection angle, profile 45** Die-cast zinc

45



**Aplicación**  
Para la unión de 3 perfiles en ángulo recto.  
El suministro incluye 3 tornillos de fijación autorroscantes.

**Application**  
For right-angled connection of 3 profiles.  
Standard Supply includes 3 fixing self-tapping screws.

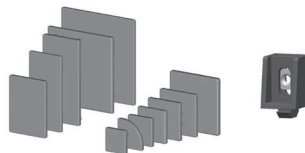
ÁNGULO/ANGLE	kg
5338	0,137

TAPETA/END COVER	kg
55015 redonda/round	0,014
55018 cuadrada/square	0,024

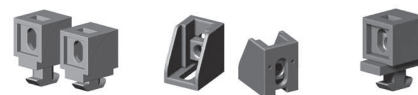


# ELEMENTOS DE MONTAJE

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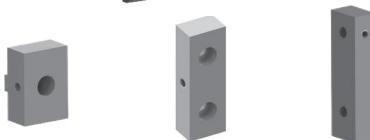
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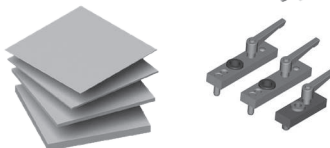
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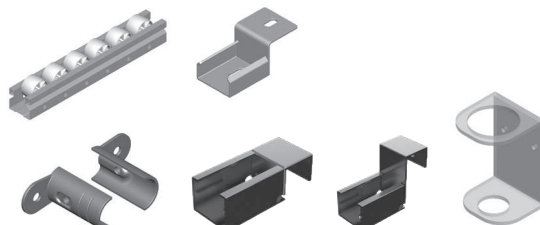
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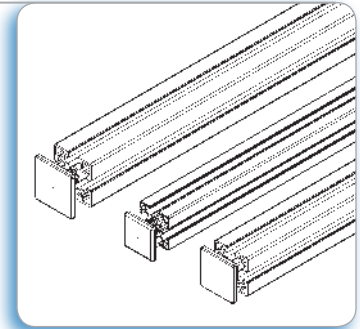
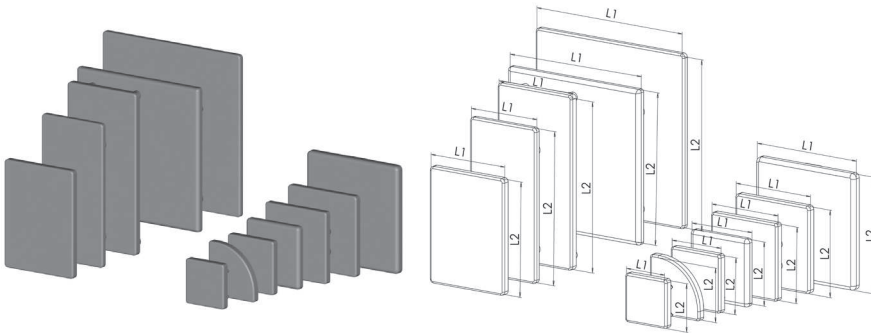
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**Tapetas** Poliamida, color negro

**End covers** Fibreglass reinforced nylon, black



**Aplicación**  
Para cubrir el extremo de los perfiles de aluminio.

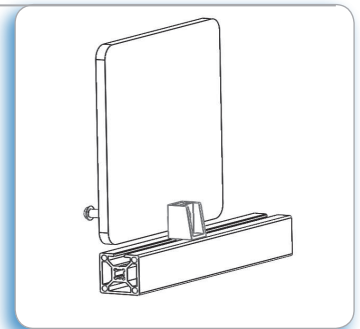
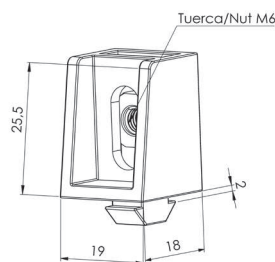
**Application**  
To cover the end of aluminium profiles.

Barcode	Icon	kg	Barcode	Icon	kg
55019	20x20	0,002	5502	45x90	0,012
55025	20x40	0,004	55022	45x135	0,02
5509	25x25	0,003	55023	45x180	0,024
5508	30x30	0,003	55024	45x45°	0,09
55010	MC-30	0,003	55014	MC-45	0,006
5504	35x35	0,004	55020	50x50	0,009
5507	40x40	0,006	55028	50x100	0,014
55011	40x80	0,019	5505	60x60	0,006
55026	40x120	0,02	55012	80x80	0,035
55031	MC-40	0,006	5503	90x90	0,044
5501	45x45	0,011	55029	100x100	0,055
5506	45x60	0,009			

Barcode	Icon	kg
55027	P. Transportador 100	0,019
55034	P. Barandilla	0,006
55032	P. Guía transportador	0,004
55033	P. Corredora 45x30	0,006
55035	P. Perimetral protecciones	0,005

**Bloque de fijación de paneles** Poliamida, color negro

**Panel fixing block** Fibreglass reinforced nylon, black



**Aplicación**  
Para fijar paneles a los perfiles de aluminio. De uso en perfiles de canal 8 mm.

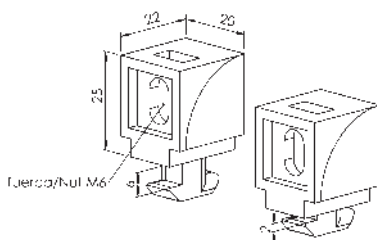
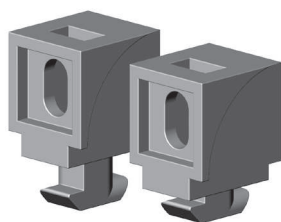
**Application**  
For attaching panels to profiles with 8 mm slot.

Barcode	kg
551330	0,007



### Bloque de fijación de paneles Poliamida, color negro

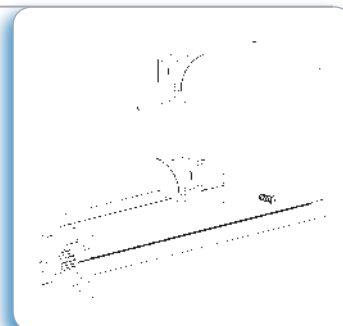
Panel fixing block Fibreglass reinforced nylon, black



10 mm



35



#### Aplicación

Para fijar paneles a los perfiles de aluminio; permite dos posiciones de fijación. De uso en perfiles de canal 10 mm. Tornillería no incluida.

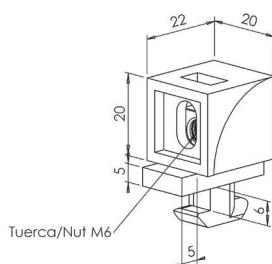
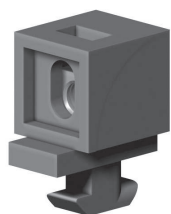
#### Application

For attaching panels to profiles with 10 mm slot. The block allows two fixing positions. Screws not included.

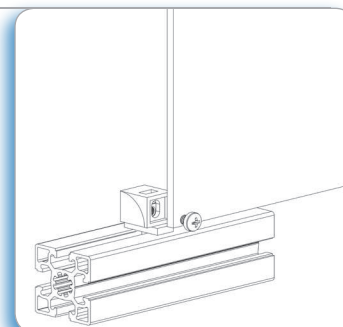
5513	canal 10 mm	0,013
551335	35	0,013

### Bloque de panelar con pestaña Poliamida, color negro

Panel fixing block with stud Fibreglass reinforced nylon, black



10 mm



#### Aplicación

Para fijar paneles a los perfiles de aluminio. El panel asienta sobre la pestaña. De uso en perfiles de canal 10 mm. Tornillería no incluida.

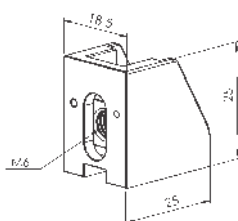
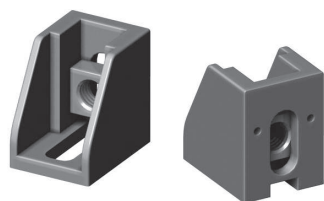
#### Application

For attaching panel to aluminium profiles with 10 mm slot. Panel lays on the stud. Screws not included.

55131	canal 10 mm	0,013
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### Bloque de fijación de paneles Universal Poliamida, color negro

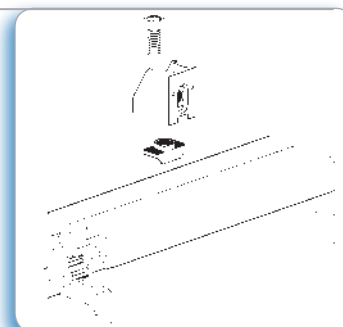
Panel fixing block Fibreglass reinforced nylon, black



10 mm



8 mm



#### Aplicación

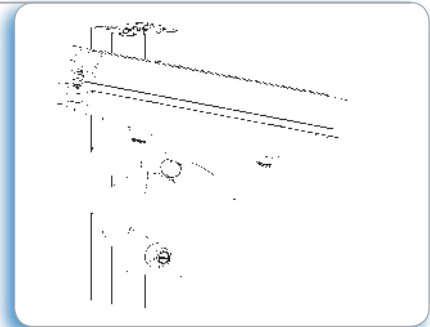
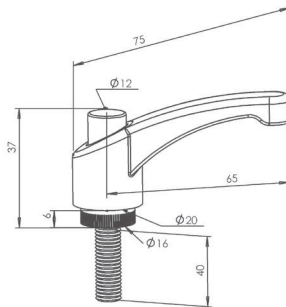
Para fijar paneles a los perfiles de aluminio. De uso en perfiles de canales 8 mm y 10 mm. Tornillería no incluida.

#### Application

For attaching panels to profiles with 8 mm and 10 mm slot. Screws not included.

55132	0,009
-------	-------

**Empuñadura graduable** Poliamida, color negro  
**Clamping handle** Fibreglass reinforced nylon, black

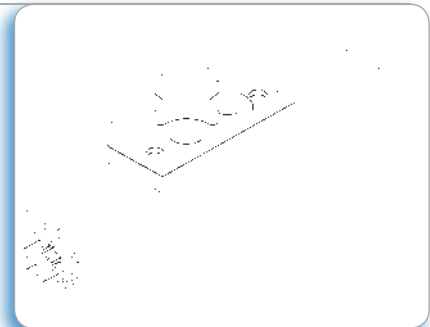
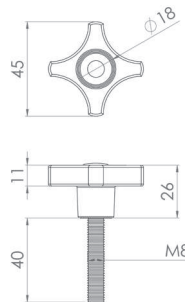
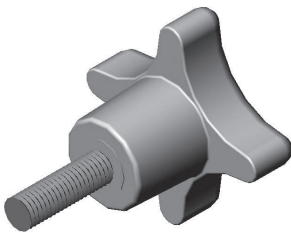


**Aplicación**  
Permite graduar el ángulo de los elementos que fija.

**Application**  
For angle adjustment of accessories fixed.

5530	M8x40	0,035
5538	int. M8x15	0,020

**Mando 4 picos** Poliamida, color negro  
**Star knob** Fibreglass reinforced nylon, black

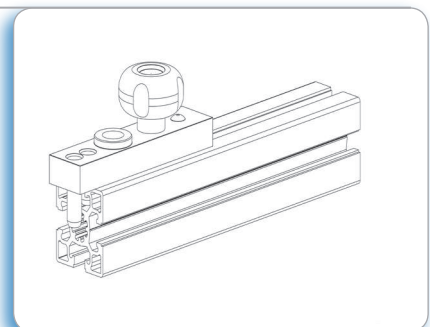
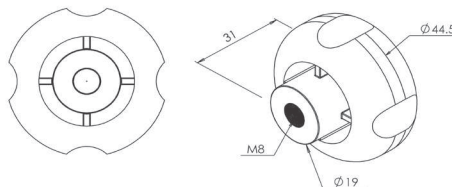
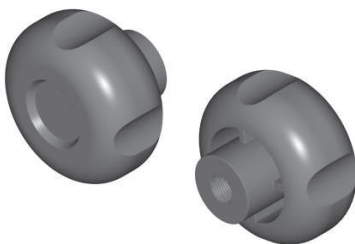


**Aplicación**  
Permite graduar la posición de los elementos que fija.

**Application**  
Used to graduate the position of accessories.

5520	M8	0,033

**Mando estrella,** Poliamida, color negro  
**Round knob estrella,** Fibreglass reinforced nylon, black



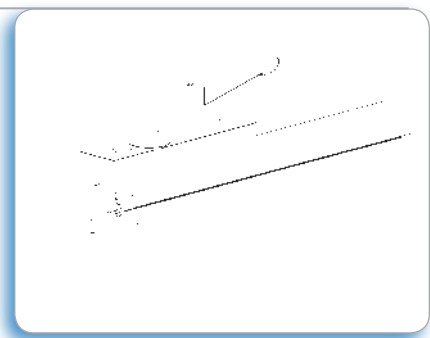
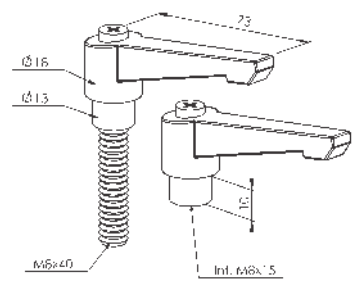
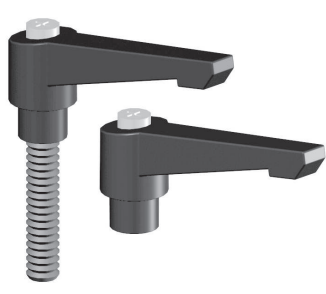
**Aplicación**  
Permite graduar la posición de los elementos que fija.

**Application**  
Used to graduate the position of accessories.

5521	M8	0,024



**Empuñadura graduable** Inyección de zinc  
**Clamping handle** Die-cast zinc

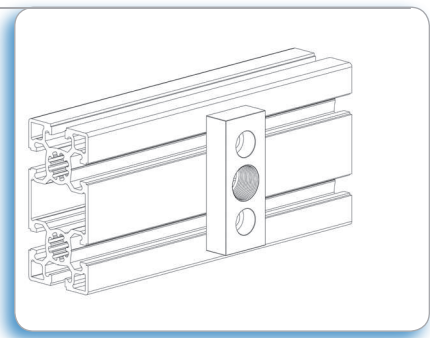
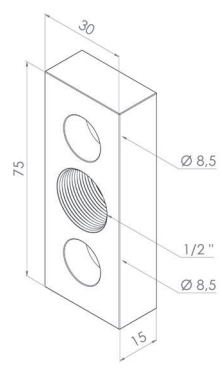
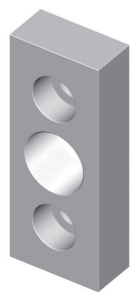


**Aplicación**  
 Permite regular el ángulo de los elementos que fija.

**Application**  
 For angle adjustment of accessories fixed.

5536	M8x40	0,088
5537	int. M8x15	0.069

**Toma de aire** Aluminio  
**Pneumatic plug** Aluminium

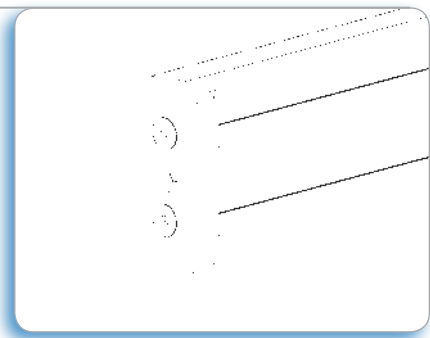
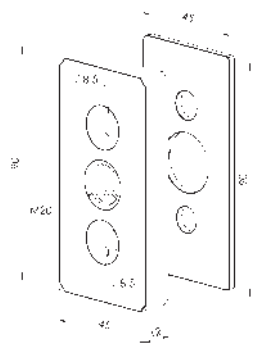
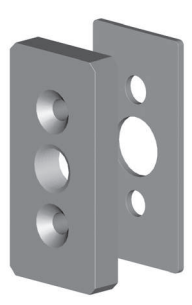


**Aplicación**  
 Para la toma de aire comprimido a través del perfil de aluminio.

**Application**  
 For compressed air intake through the aluminium profile.

	<b>Max. Pres.</b>	
5532	8 bars.	0,066

**Tapa de aire** Aluminio  
**Pneumatic end plate** Aluminium

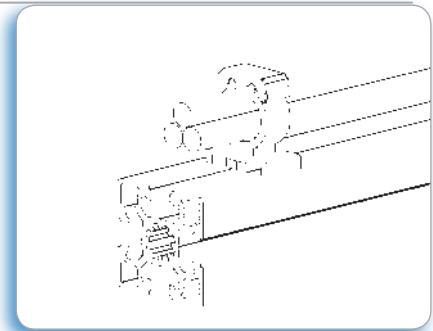
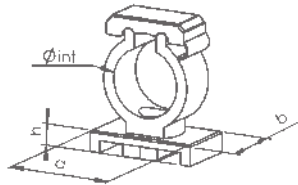
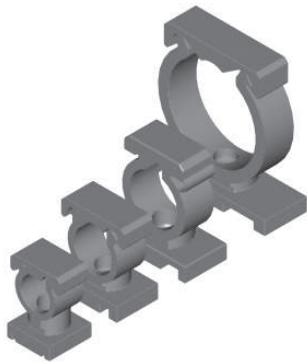


**Aplicación**  
 Para el cierre estanco del extremo de los perfiles que transportan aire comprimido. El suministro incluye junta de goma. Casquillos reductores cod.52918 no incluidos.

**Application**  
 For the lateral sealing of profiles carrying compressed air. Standard supply includes a rubber seal. Threaded inserts not included.

	<b>Max. Pres.</b>	
5533	8 bars.	0,092

**Abrazadera clip** Nylon  
**Closed pipe clip** Nylon

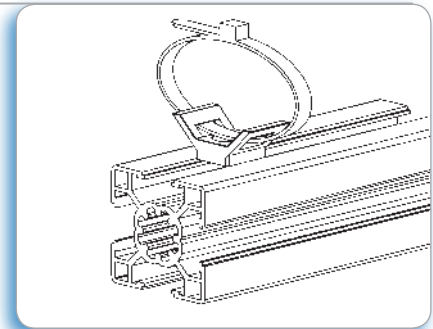
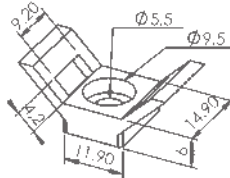
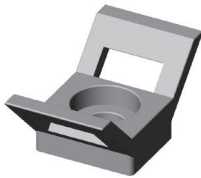


**Aplicación**  
Permite la fijación de cables directamente en el perfil.

**Application**  
For fixing cables directly on profiles.

	a	b	h	$\varnothing_{int}$	
5543	39 mm	20 mm	8 mm	40 mm	0,009
5544	29 mm	20 mm	8 mm	28 mm	0,007
5540	22 mm	20 mm	8 mm	20 mm	0,005
5542	17 mm	18 mm	8 mm	15 mm	0,004
5541	13 mm	14 mm	8 mm	12 mm	0,003

**Soporte de sujeción brida** Nylon, color gris  
**Cable binder block** Nylon, grey

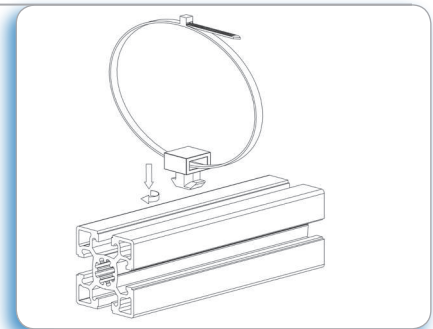
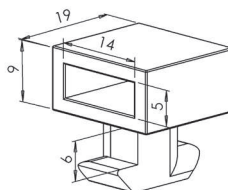


**Aplicación**  
Permite la fijación de cables en el perfil mediante bridas.

**Application**  
Enables the fixing of cables on profiles using cable binders.

5516	0,001

**Sujección para brida** Poliamida, color negro  
**Cable binding block** Fibreglass reinforced nylon, black



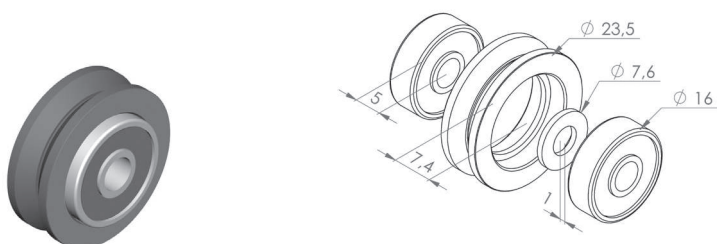
**Aplicación**  
Para fijar cables a los perfiles de aluminio. Muy fácil de montar. No necesita tuercas.

**Application**  
To fix cables cables to aluminium profiles. Easy to mount, no nut needed.

5519	0,004

## Rueda en V con rodamientos **Nylon negro**

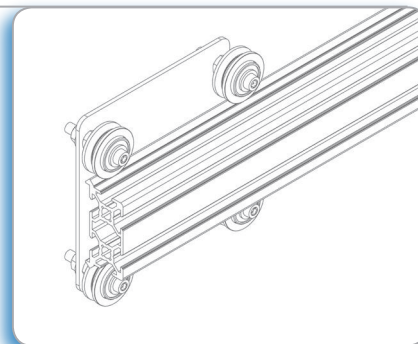
### V wheel with bearings **Black nylon**



55342



0,01



#### Aplicación

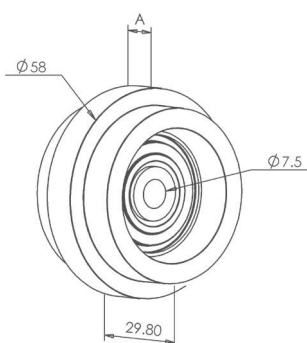
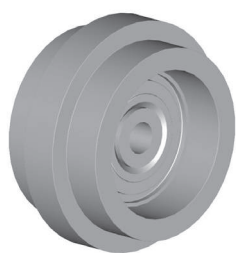
Para el deslizamiento lineal sobre el perfil de aluminio cod. 50993. El suministro incluye Rueda en V, dos rodamientos y arandela intermedia.

#### Application

For riding on V track aluminium profile cod. 505993. Standard supply includes V wheel, two bearings and washer.

## Rodamiento **Nylon**

### Roller **Nylon**



5534

Ø

58



0,137

A

9.8

55341

58

0,125

7.8



#### Aplicación

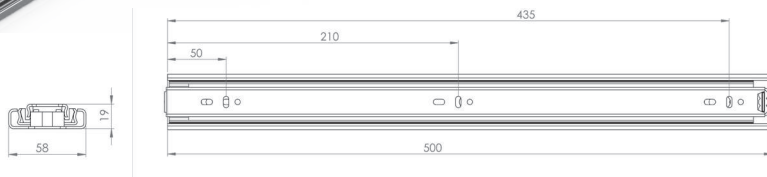
Para guiar elementos que requieren movimiento lineal sobre la ranura del perfil. Incluye tornillo + tuerca.

#### Application

To guide elements requiring lineal motion in the slot of aluminium profiles. Fixing bolt + nut included.

## Guía telescópica **Acero zincado**

### Telescopic slides **Zinc Steel**



5523



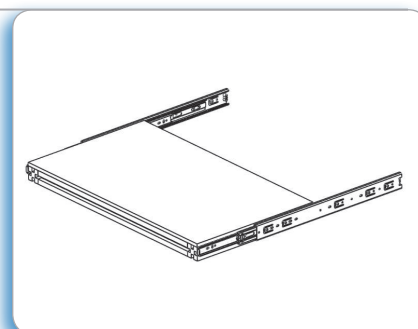
M4



1,58



500



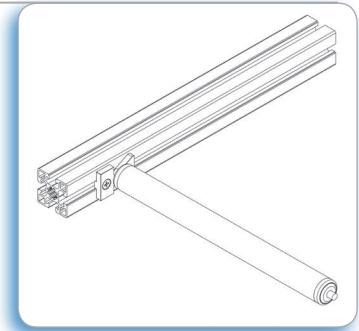
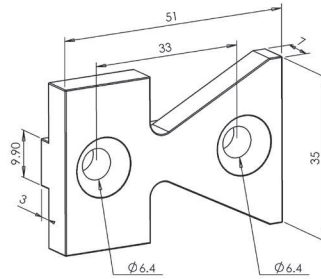
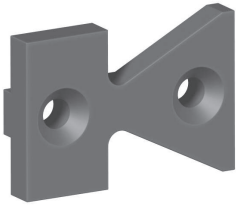
#### Aplicación

Para uso en cajones y elementos correderos o extraíbles.

#### Application

Used in drawers and moving or retractable elements.

**Fijador de rodillos libres** Poliamida, color negro  
**Free roller mounting block** Fibreglass reinforced nylon, black



**Aplicación**  
Permite el montaje de rodillos en los perfiles de aluminio. Los rodillos quedan sueltos por si se necesita retirarlos.

**Application**  
For fixing rollers to aluminium profiles. Rollers lays on the block and can easily be removed.



55151



0,011

**Rodillos** PVC / Acero zincado  
**Rollers** PVC / Zinc plated steel



RD30

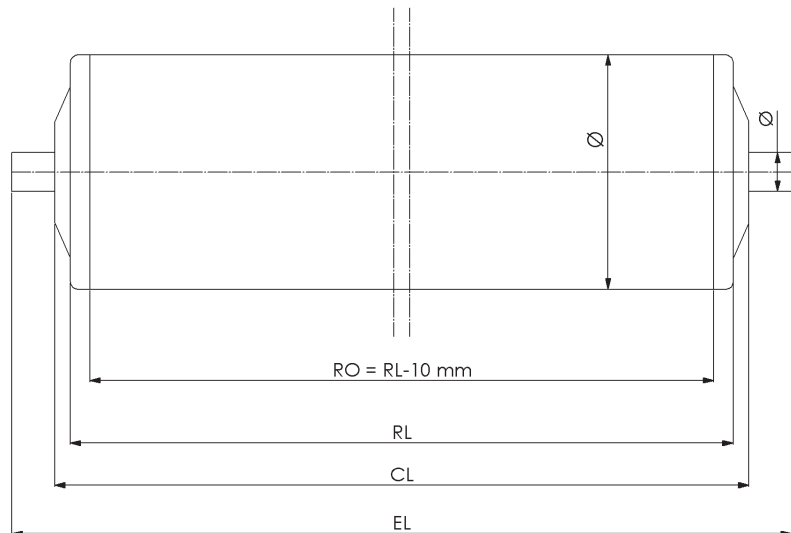
RD50



Ø 30

Ø 50

\*Consultar otros diámetros

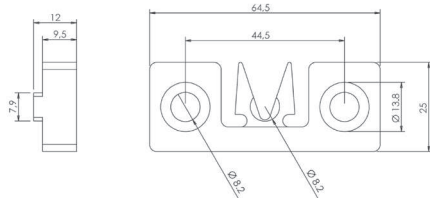


REFERENCIA	A....M.....	A....AGM....	A....IGM....	A....Liso....	A....SW.....	A....FA.....
EJE Ø	EL					
8	RL+	20		10	10	20
10	RL+	22	10	10	10	20
12	RL+	24	10	10	10	20





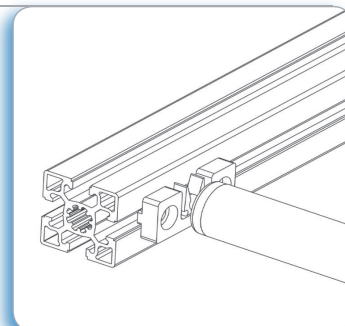
**Clip  $\varnothing$  8 fijador de rodillos** Poliamida, color negro  
**Clip  $\varnothing$  8 mounting block** Fibreglass reinforced nylon, black



55152



0,013



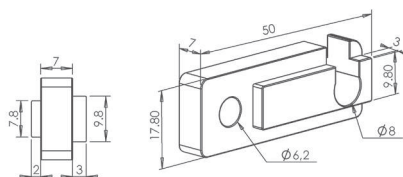
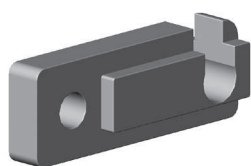
**Aplicación**

Permite el montaje de rodillos en los perfiles de aluminio. Los rodillos pueden ser retirados sin necesidad de desmontar todo el conjunto.

**Application**

For fixing rollers to profiles. Rollers can be removed without taking to pieces the whole structure.

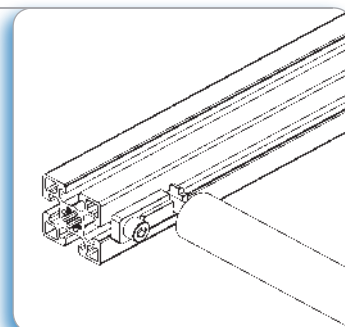
**Fijador  $\varnothing$  8 exterior de rodillos** Poliamida, color negro  
**Roller  $\varnothing$  8 mounting block** Fibreglass reinforced nylon, black



5515



0,008



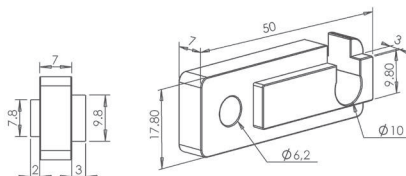
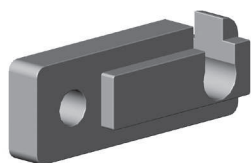
**Aplicación**

Permite el montaje de rodillos en los perfiles de aluminio. Los rodillos pueden ser retirados sin necesidad de desmontar todo el conjunto.

**Application**

For fixing rollers to profiles. Rollers can be removed without taking to pieces the whole structure.

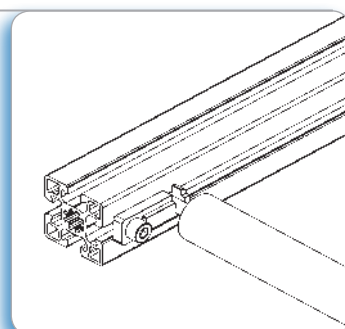
**Fijador  $\varnothing$  10 exterior de rodillos** Poliamida, color negro  
**Roller  $\varnothing$  10 mounting block** Fibreglass reinforced nylon, black



55150



0,008



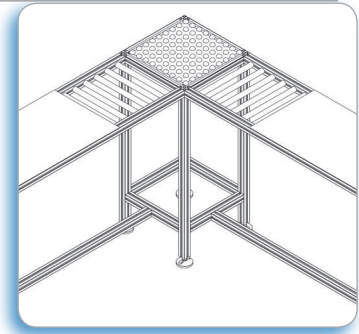
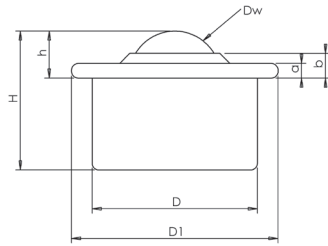
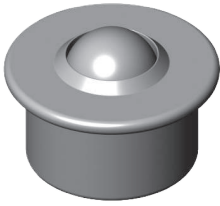
**Aplicación**

Permite el montaje de rodillos en los perfiles de aluminio. Los rodillos pueden ser retirados sin necesidad de desmontar todo el conjunto.

**Application**

For fixing rollers to profiles. Rollers can be removed without taking to pieces the whole structure.

**Bola transportadora** Acero zincado  
**Roller ball** Zinc plated steel



**Aplicación**

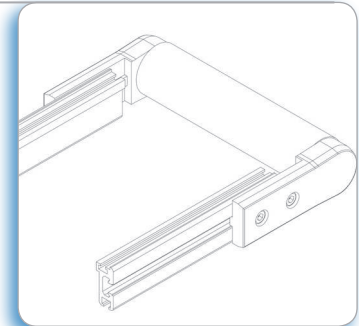
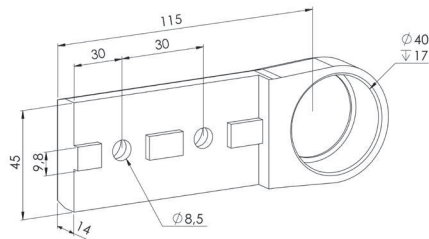
Usadas para conseguir un movimiento de cargas en cualquier dirección con el menor esfuerzo. Consultar el tipo de bola en función de la carga a desplazar.

**Application**

Used for the linear motion of charges in any direction with the minimum effort. Check roller ball type to use according to load.

	Dw	D	D1	h	H	Max. Kg	
5BT15	15 mm	24 mm	31 mm	9,5 mm	20,7 mm	50	0,040
5BT22	22 mm	36 mm	45 mm	9,8 mm	29,5 mm	130	0,126
5BT30	30 mm	45 mm	55 mm	13,8 mm	37 mm	250	0,252

**Cabezal 45** Aluminio  
**Conveyor roller bracket 45** Aluminium



**Aplicación**

Para la soportación de los rodillos en los extremos de cintas transportadoras. Preparado para albergar un rodamiento de Ø 40mm.

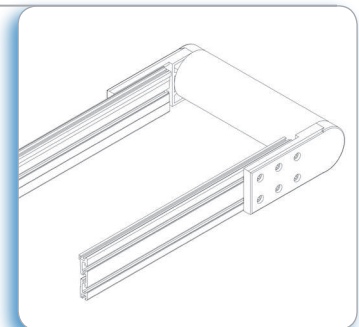
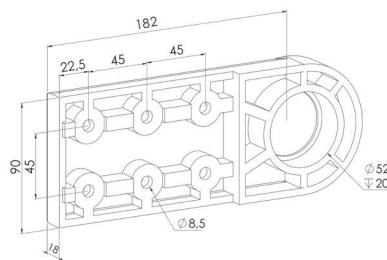
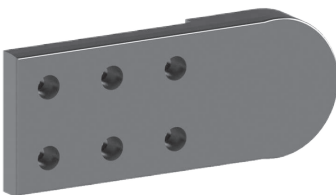
**Application**

To lodge rollers in the edge of the belt conveyor. Prepare to lodge a Ø 40 mm. bearing.

55245

0,199

**Cabezal 90** Aluminio  
**Conveyor roller bracket 90** Aluminium



**Aplicación**

Para la soportación de los rodillos en los extremos de cintas transportadoras. Preparado para albergar un rodamiento Ø 52 mm.

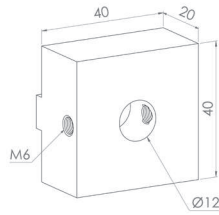
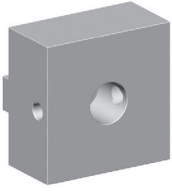
**Application**

To lodge rollers in the edge of the belt conveyor. Prepare to lodge a Ø 52 mm. bearing.

55290

0,594

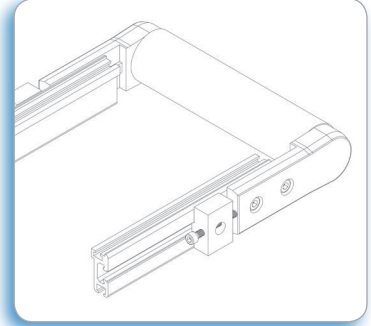
**Tensor 45** Aluminio  
**Tensioner 45** Aluminium



5565

0,078

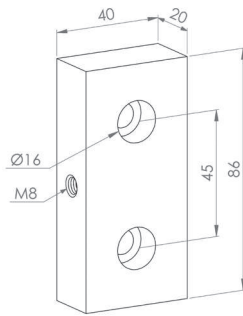
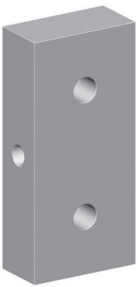
45



**Aplicación**  
Para tensar la banda de los transportadores mediante el apriete de los tornillos. Tornillería incluida.

**Application**  
To tighten the conveyor belt using the screws. Nuts and screws included.

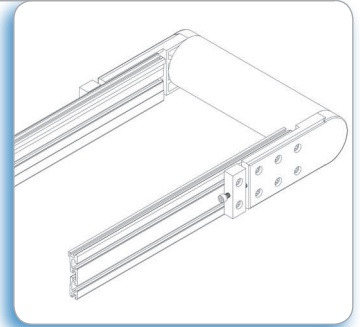
**Tensor 90** Aluminio  
**Tensioner 90** Aluminium



5566

0,170

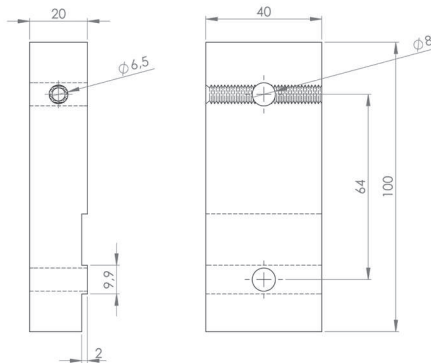
90



**Aplicación**  
Para tensar la banda de los transportadores mediante el apriete de los tornillos. Tornillería incluida.

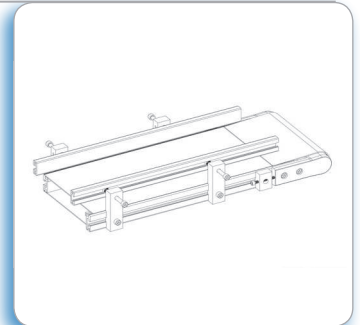
**Application**  
To tighten the conveyor belt using the screws. Nuts and screws included.

**Soporte barandilla** Aluminio  
**Rail support** Aluminium



5567

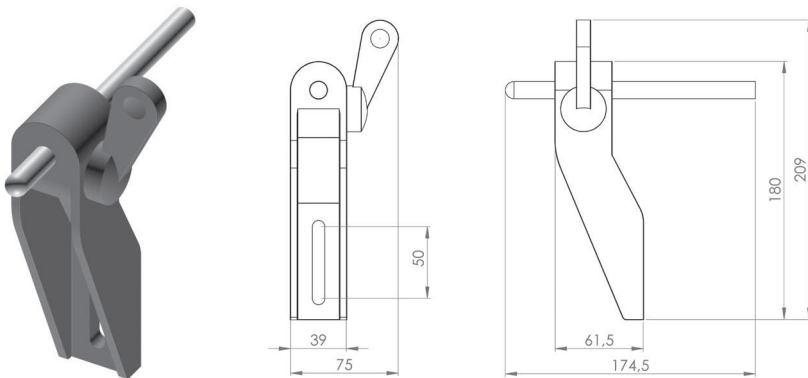
0,197



**Aplicación**  
Para el soporte de las barandillas y guías laterales en las cintas transportadoras y camino de los rodillos.

**Application**  
To support the rails in conveyor and roller belts.

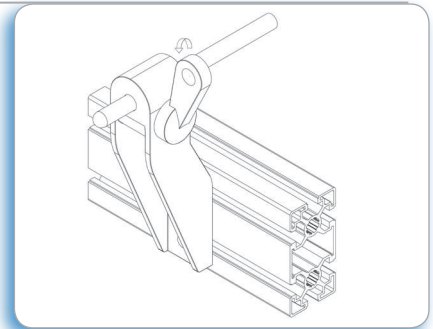
**Soporte barandilla** Poliamida, color negro  
**Rail support** Fibreglass reinforced nylon, black



55671



0,353



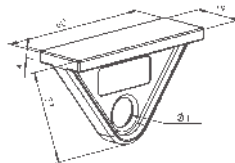
**Aplicación**

Para el soporte de las barandillas y guías laterales en las cintas transportadoras y camino de los rodillos.  
Varilla no incluida

**Application**

To support the rails in conveyor and roller belts.  
Rod not included

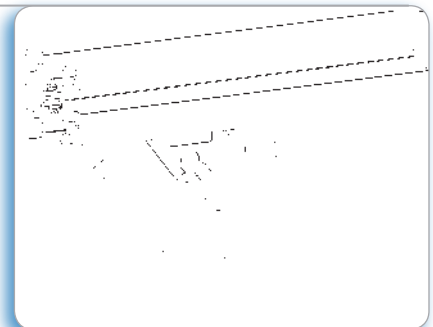
**Colgador deslizante** Poliamida, color negro  
**Sliding hanger** Fibreglass reinforced nylon, black



5514



0,010



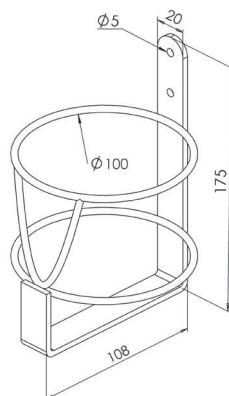
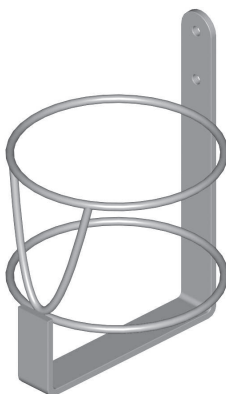
**Aplicación**

Permite colgar y desplazar las herramientas suspendidas en los bancos de trabajo.

**Application**

Working tools can be suspended and displaced in work stations.

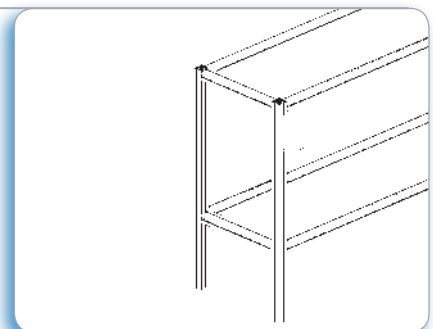
**Botellero** Acero zincado  
**Bottle holder** Zinc plated steel



5531



0,213



**Aplicación**

Como accesorio para sujetar las botellas en bancos y estaciones de trabajo.

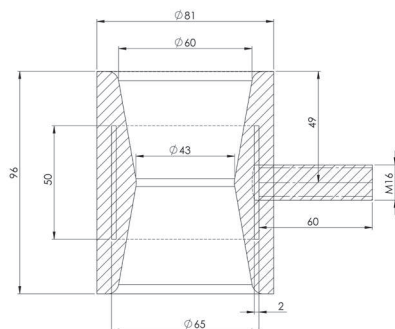
**Application**

As an accessory used to hold bottles in work stations.



## Porta herramientas PVC negro

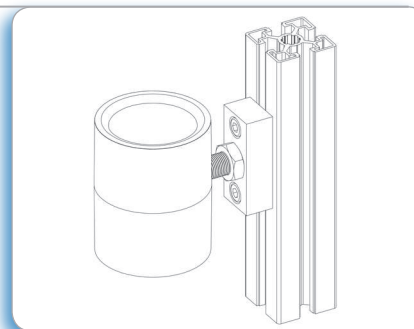
Tool holder PVC black



5535



0,589



### Aplicación

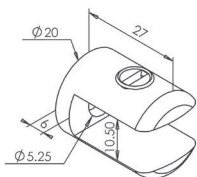
Para la colocación de herramientas manuales. Incluye soporte para fijación al perfil y tornillería.

### Application

To place hand tools. Fixing accessory and fasteners included.

## Portabaldas Aluminio fundido

Panel clamp Die-cast aluminium



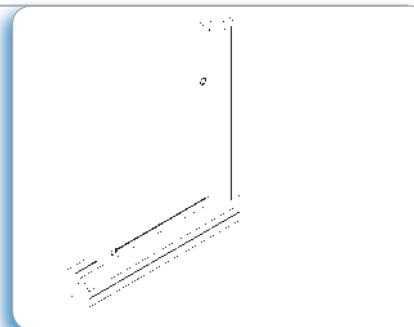
10 mm



5518



0,021



### Aplicación

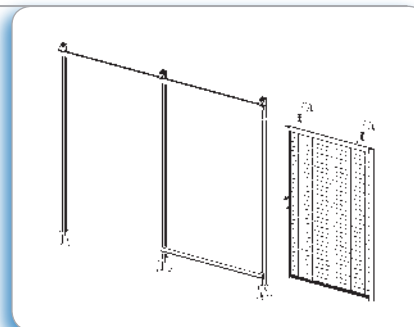
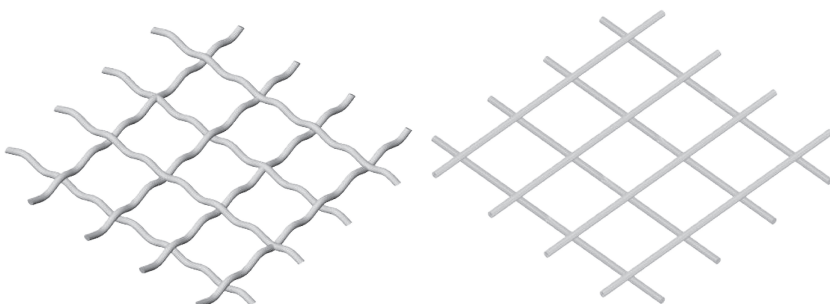
Para fijar baldas de cristal u otro material a las estructuras de aluminio. Espesor máximo de la balda: 10 mm.

### Application

For fix glass shelves to aluminium structures. Shelf max. Thickness: 10 mm.

## Rejillas Acero galvanizado

Fences Galvanized steel



### Aplicación

Para fabricar protecciones de seguridad.

### Application

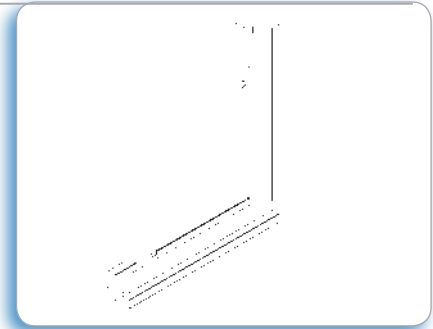
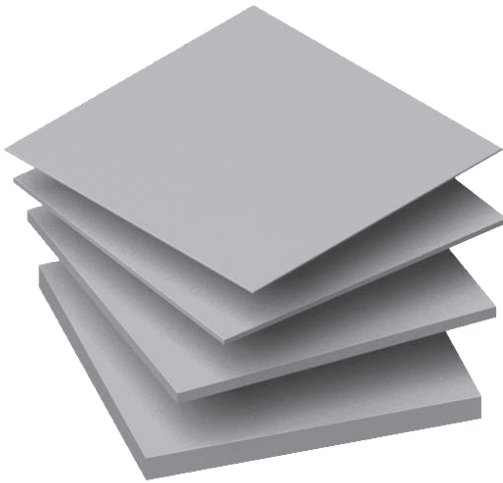
To make protection panels.



medidas / dimensions

5550	rejilla electrosoldada 50x50
5551	rejilla electrosoldada 40x40
5552	rejilla electrosoldada 30x30
Rejilla entrelazada	consultar*

**Paneles**  
**Panels**

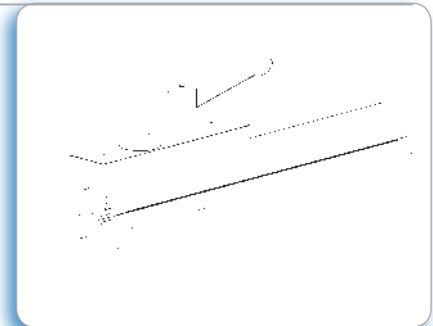
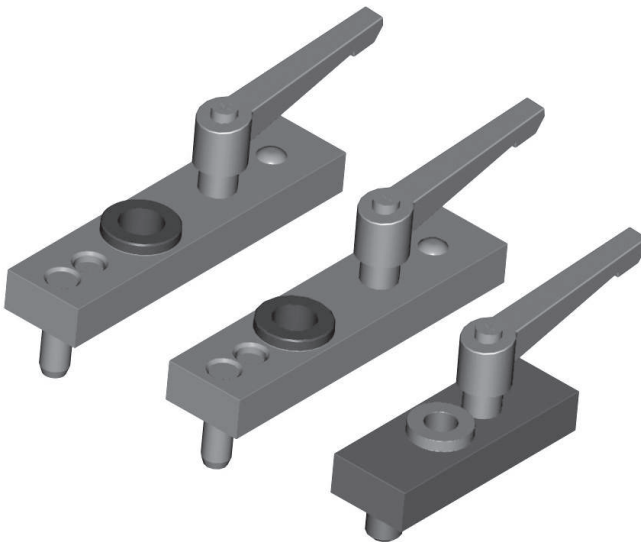


**Aplicación**  
Para panelar estructuras.

**Application**  
To panel structures.





	espesor / thickness
metacrilato	2-12 mm.
policarbonato	3-10 mm.
polipropileno alveolar	3-20 mm.
PET	3-10 mm.
PVC espumado	3-19 mm.
composite aluminio	4-10 mm.
resina fenólica	4-30 mm.
*consultar medidas y colores	*measures and colours upon

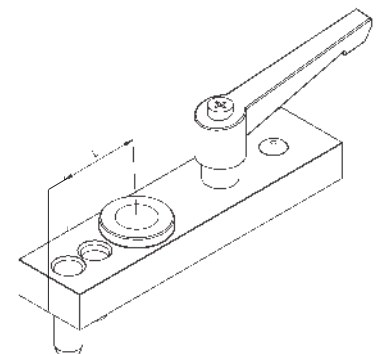
**Plantilla general para conectores** Aluminio/acero  
**Drilling jig for joints** Aluminium/Steel



**Aplicación**  
Facilita la ejecución de los taladros necesarios para el montaje de los diferentes tipos de conectores de perfiles.

**Application**  
Helps guiding while drilling profiles to use with different types of joints.

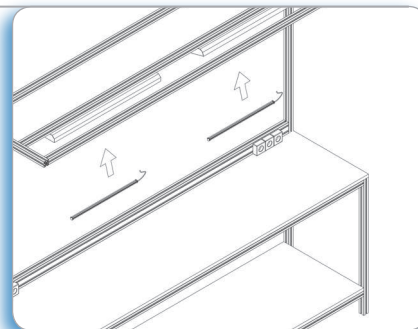
			
5701	40/45/60/80/90	33 mm	0,265
5703	35	37 mm	0,265
5702	30	18 mm	0,176





## Luminaria LED

### LED light surface mounted



#### Aplicación

Luminaria para fijación directa al perfil mediante clips de amarre. Viene preparada para conexión directa a la red sin transformador.

#### Application

LED light surface mounted with clips. Direct plug-in to electric network. Power transformer not needed.

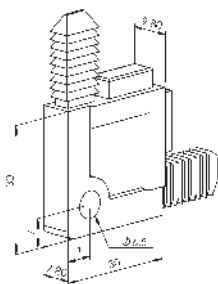
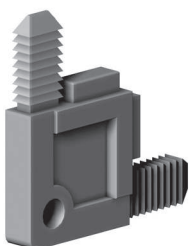
		Consumo (W)	Lúmenes	Rendimiento (lm/W)	
558060	310 mm	5,25	580	111	0,5
558090	550 mm	10,75	1150	106	0,74
5580120	780 mm	15,75	1750	111	0,98
5580150	1020mm	21	2300	110	1,23

## Ángulo de unión perfiles en U

Poliamida color negro

### U profiles assembly bracket

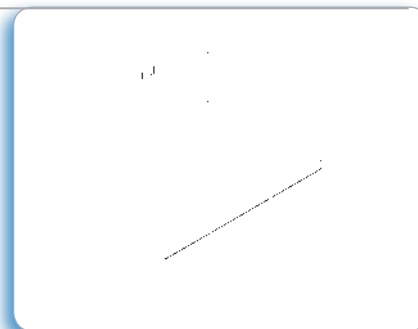
Fibreglass reinforced nylon, black



5517



0,011



#### Aplicación

Para la unión de perfiles en U cod.5034. Facilita la construcción de paneles de protección tanto interiores como exteriores.

#### Application

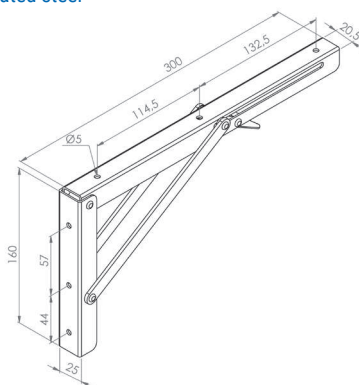
Used for assembly of U cod.5034 profiles. Provides a good support in the construction of both interior and exterior protection panels.

## Escuadra abatible 300x160

Acero zincado

### Folding shelf bracket 300x160

Zinc plated steel



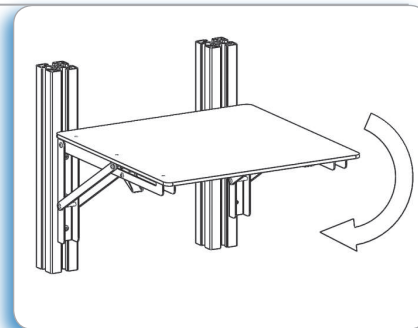
55163



M5



0,86



#### Aplicación

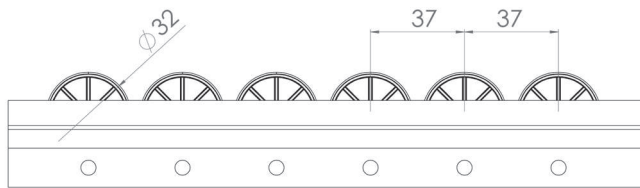
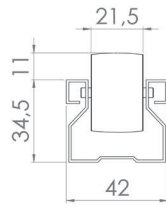
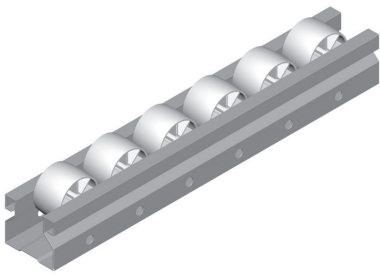
Permite colocar baldas abatibles.

#### Application

Suitable to install folding shelves.

**Minicarril** Acero zincado

**Minirail** Steel zinc plated



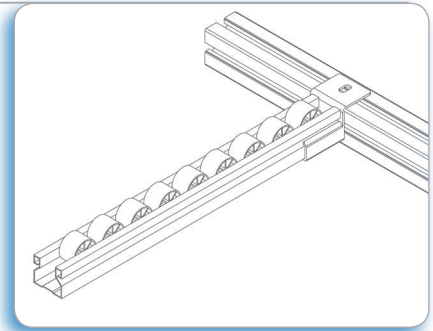
5576



4 m



1,4



**Aplicación**

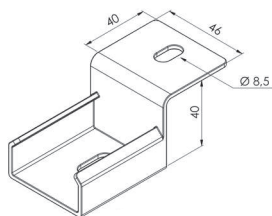
Perfil de acero para desplazamiento de objetos en estanterías dinámicas.

**Application**

Steel profile for moving objects in dynamic shelves.

**Unión minicarril a perfil** Acero zincado

**Roller track profile joint** Steel zinc plated



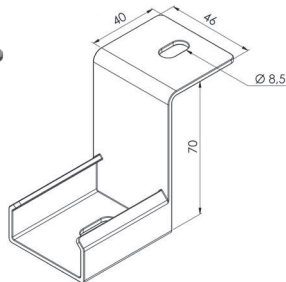
**Unión a nivel**



55162



0,13



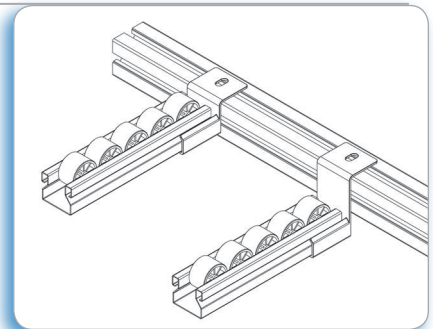
**Unión con tope**



55164



0,16



**Aplicación**

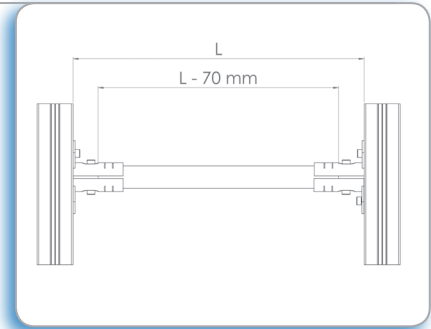
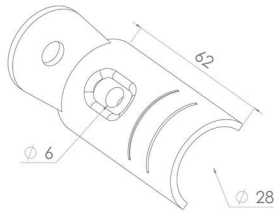
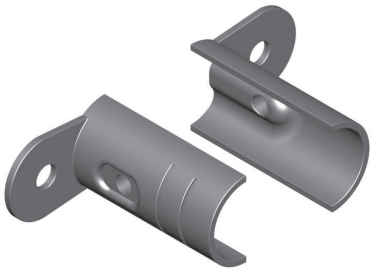
Para la unión del minicarril a los perfiles de aluminio. Uniones a nivel o con tope para cajas.

**Application**

For the assembly of roller track to aluminium profiles.



**Soporte de tubo Ø 28 mm Acero**  
**Tube support Ø 28 mm Steel**



**Aplicación**

Para la unión de tubos Ø 28 mm a los perfiles de aluminio en ángulo recto. El suministro incluye dos soportes de tubo y la tornillería de unión al tubo.

**Application**

For right-angled connection of tubes Ø 28 mm to aluminium profiles. Standard supply includes two tubes support screws connecting to the tube.



55161

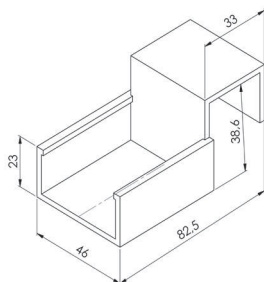
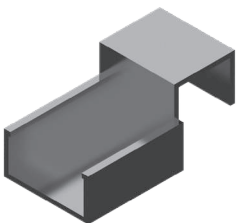


M6



0,068

**Unión minicarril a tubo Ø28mm Acero zincado**  
**Roller track joint to Ø28mm tube Steel zinc plated**



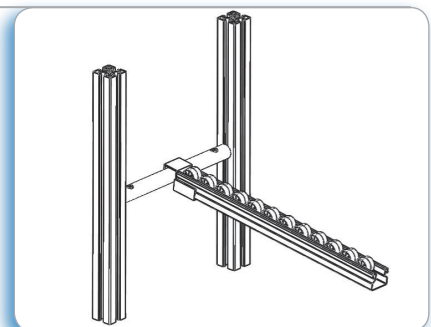
**Unión a nivel**



M2B



0,16



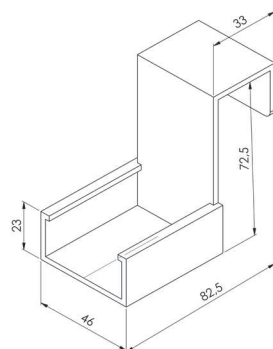
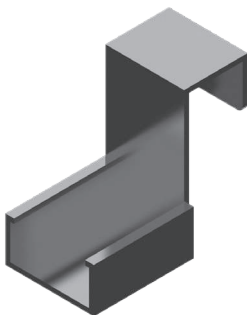
**Aplicación**

Para la unión del minicarril a tubo Ø28mm. (Cod.50702)

Uniones a nivel o con tope para cajas.

**Application**

For the assembly of roller track to Ø28mm. aluminium tube (Cod.50702)



**Unión con tope**

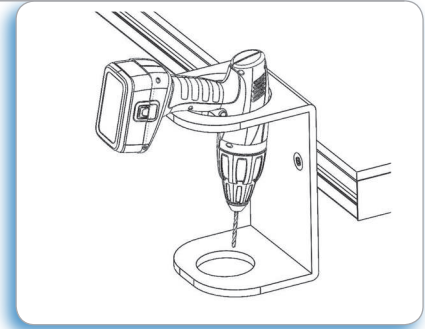
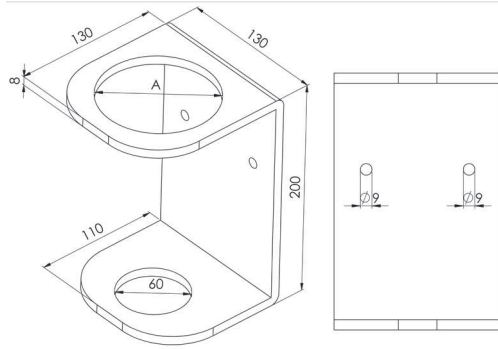


M1B



0,13

**Soporte herramientas** Metacrilato  
**Tool's holder** Metacrilato



**Aplicación**  
Como accesorio para sujetar herramientas en bancos y estaciones de trabajo.

**Application**  
As an accessory used to hold tools in work stations.

	<b>A</b>
55310	100 mm
55311	90 mm
55312	80 mm
55313	60 mm

# ELEMENTOS DE POSICIONAMIENTO

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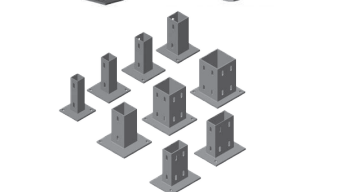
página/page 77



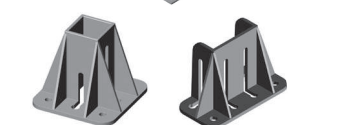
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página/page 80



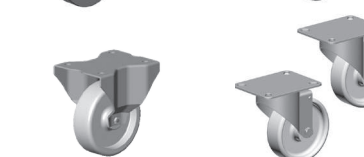
página/page 81



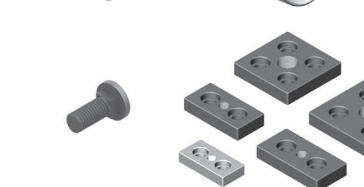
página/page 82



página/page 83



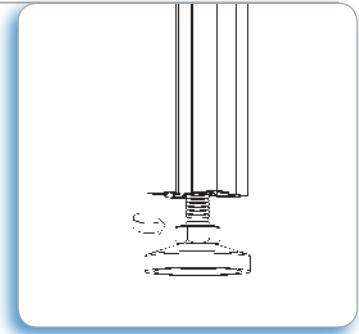
página/page 84



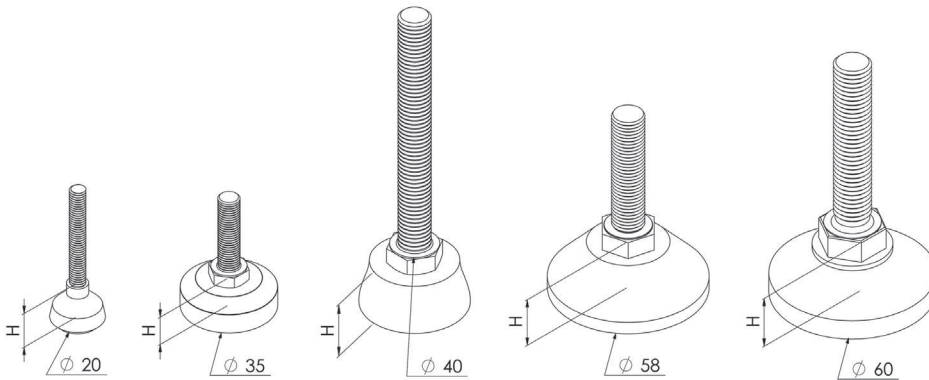
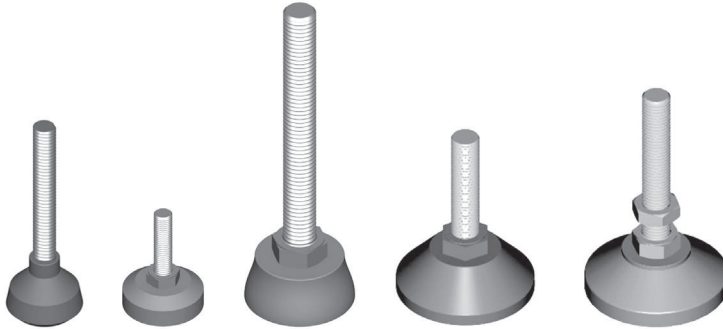
página/page 85

# POSITIONING ELEMENTS

**Pies, base de poliamida** Poliamida, color negro  
**Adjustable knuckle feet** Fibreglass reinforced nylon, black



Aplicación / Application



**Ø 20 - MAX: 200 KG**

Barcode	Part Number	h	kg
	M6x45 mm	12 mm	0,01

**Ø 35 - MAX: 200 KG**

Barcode	Part Number	h	kg
	M8x25 mm	15 mm	0,05

**Ø 40 - MAX: 300 KG**

Barcode	Part Number	h	kg
	M12x100 mm	18 mm	0,11

**Ø 58 - MAX: 300 KG**

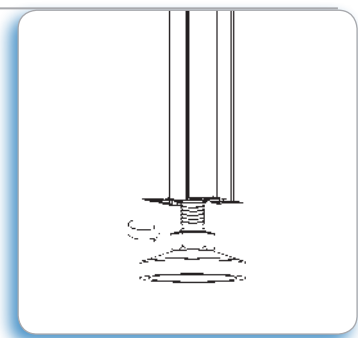
Barcode	Part Number	h	kg
	M12x50 mm	20 mm	0,14

**Ø 60 - MAX: 400 KG**

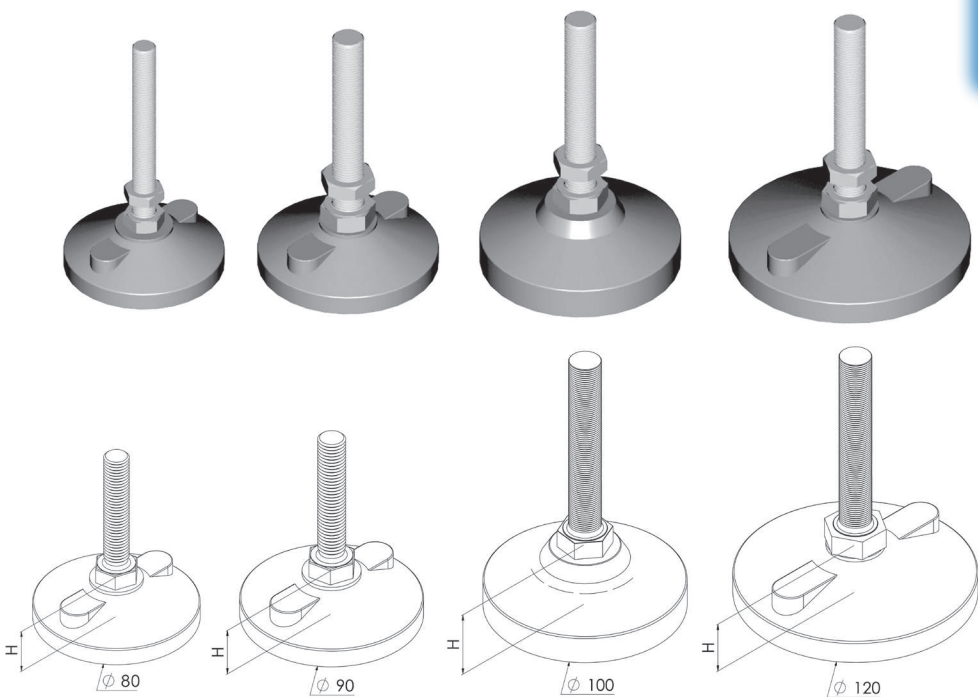
Barcode	Part Number	h	kg
	M12x70 mm	20 mm	0,17
	M12x100 mm	20 mm	0,21
	M14x70 mm	20 mm	0,20
	M14x100 mm	20 mm	0,25
	M16x100 mm	20 mm	0,23
	M20x100 mm	20 mm	0,29



**Pies, base de poliamida** Poliamida, color negro  
**Adjustable knuckle feet** Fibreglass reinforced nylon, black



Aplicación / Application



**Ø 80 - MAX: 530 KG.**

Barcode	Bolt	h	Kg
540280127	M12x70 mm	24 mm	0,19
540280121	M12x100 mm	24 mm	0,23
540280147	M14x70 mm	24 mm	0,22
540280141	M14x100 mm	24 mm	0,27
540280161	M16x100 mm	24 mm	0,26
540280201	M20x100 mm	24 mm	0,32

**Ø 100 - MAX: 700 KG**

Barcode	Bolt	h	Kg
5402100127	M12x70 mm	35,5 mm	0,28
5402100121	M12x100 mm	35,5 mm	0,32
5402100147	M14x70 mm	35,5 mm	0,31
5402100141	M14x100 mm	35,5 mm	0,36
5402100161	M16x100 mm	35,5 mm	0,35
5402100201	M20x100 mm	35,5 mm	0,41

**Ø 90 - MAX: 630 KG**

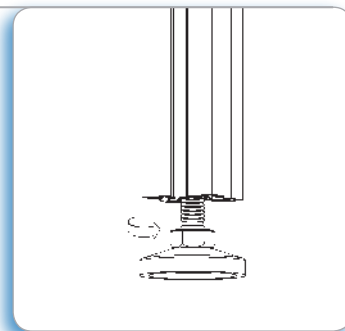
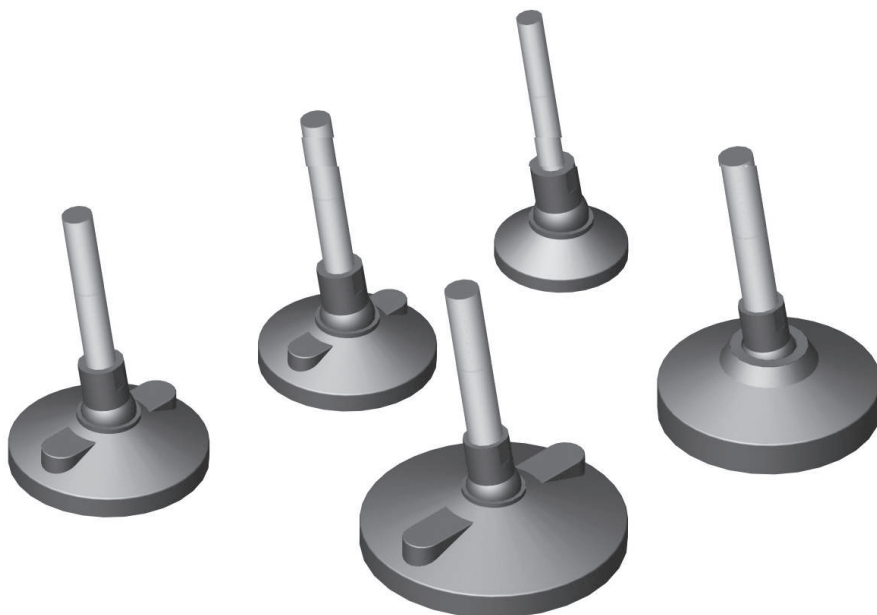
Barcode	Bolt	h	Kg
540290127	M12x70 mm	26 mm	0,22
540290121	M12x100 mm	26 mm	0,26
540290147	M14x70 mm	26 mm	0,25
540290141	M14x100 mm	26 mm	0,30
540290161	M16x100 mm	26 mm	0,28
540290201	M20x100 mm	26 mm	0,34

**Ø 120 - MAX: 700 KG**

Barcode	Bolt	h	Kg
5402120127	M12x70 mm	30 mm	0,30
5402120121	M12x100 mm	30 mm	0,34
5402120147	M14x70 mm	30 mm	0,33
5402120141	M14x100 mm	30 mm	0,37
5402120161	M16x100 mm	30 mm	0,36
5402120201	M20x100 mm	30 mm	0,42

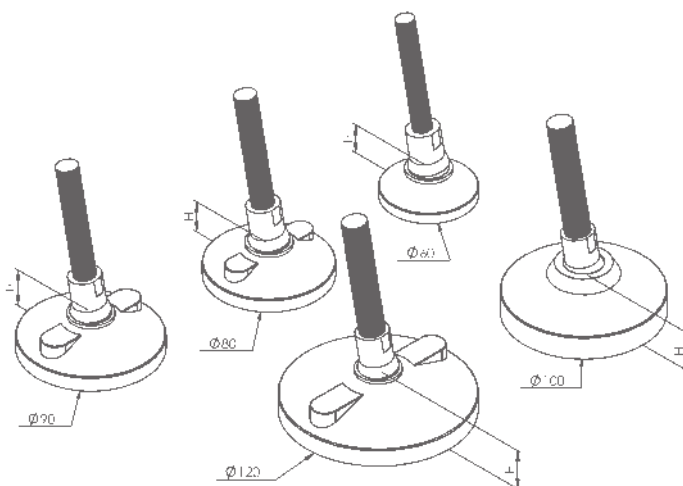
**Pies, base de poliamida con rótula** Poliamida, color negro

**Swivel feet** Fibreglass reinforced nylon, black



**Ø 60 - MAX: 650 KG**

Barcode	Bolt	h	kg
540360121	M12x100 mm	20 mm	0,195
540360125	M12x150 mm	20 mm	0,223
540360141	M14x100 mm	20 mm	0,225
540360145	M14x150 mm	20 mm	0,268
540360161	M16x100 mm	20 mm	0,245
540360165	M16x150 mm	20 mm	0,294



**Ø 80 - MAX: 740 KG**

Barcode	Bolt	h	kg
540380121	M12x100 mm	24 mm	0,221
540380125	M12x150 mm	24 mm	0,250
540380141	M14x100 mm	24 mm	0,252
540380145	M14x150 mm	24 mm	0,294
540380161	M16x100 mm	24 mm	0,271
540380165	M16x150 mm	24 mm	0,321

**Ø 100 - MAX: 900 KG**

Barcode	Bolt	h	kg
5403100121	M12x100 mm	35,5 mm	0,287
5403100125	M12x150 mm	35,5 mm	0,316
5403100141	M14x100 mm	35,5 mm	0,318
5403100145	M14x150 mm	35,5 mm	0,361
5403100161	M16x100 mm	35,5 mm	0,337
5403100165	M16x150 mm	35,5 mm	0,387

**Ø 90 - MAX: 840 KG**

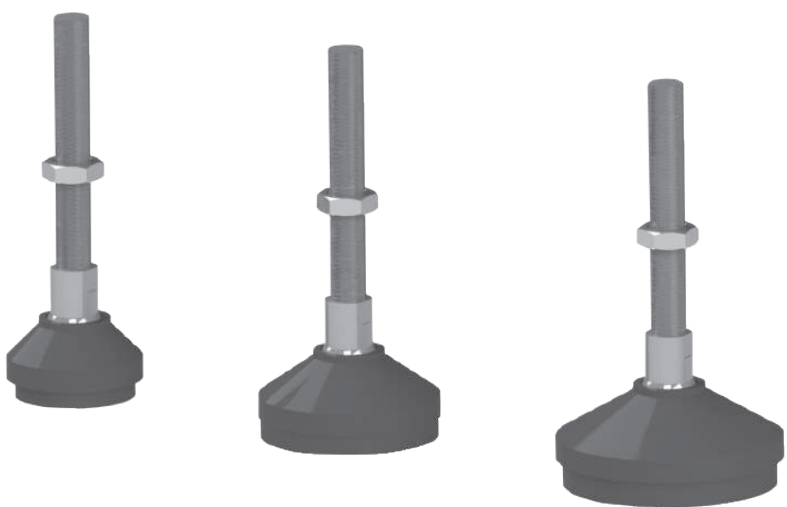
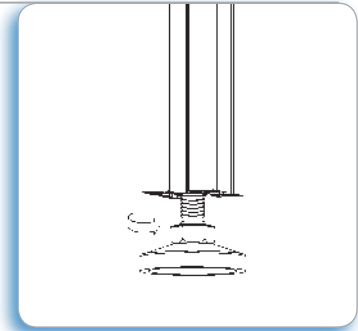
Barcode	Bolt	h	kg
540390121	M12x100 mm	26 mm	0,246
540390125	M12x150 mm	26 mm	0,275
540390141	M14x100 mm	26 mm	0,277
540390145	M14x150 mm	26 mm	0,320
540390161	M16x100 mm	26 mm	0,295
540390165	M16x150 mm	26 mm	0,345

**Ø 120 - MAX: 900 KG**

Barcode	Bolt	h	kg
5403120121	M12x100 mm	30 mm	0,321
5403120125	M12x150 mm	30 mm	0,350
5403120141	M14x100 mm	30 mm	0,352
5403120145	M14x150 mm	30 mm	0,395
5403120161	M16x100 mm	30 mm	0,371
5403120165	M16x150 mm	30 mm	0,421



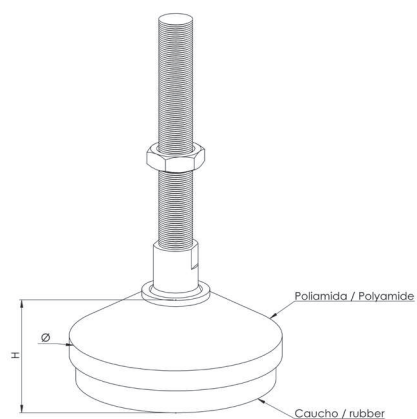
**Pies antivibratorios, con rótula** Poliamida y caucho  
**Antivibration levelling feet** Polyamide and rubber



**PIE ANTIVIBRATORIO Ø 60 - MAX: 1800 KG**

Poliamida reforzada / Caucho 70 Shore A

		h	
540760121	M12x100 mm	34 mm	0,240
540760125	M12x150 mm	34 mm	0,270
540760141	M14x100 mm	34 mm	0,271
540760145	M14x150 mm	34 mm	0,314
540760161	M16x100 mm	34 mm	0,290
540760165	M16x150 mm	34 mm	0,340



**PIE ANTIVIBRATORIO Ø 80 - MAX: 2200 KG**

Poliamida reforzada / Caucho 70 Shore A

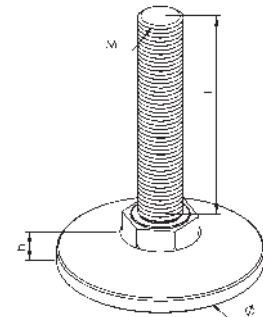
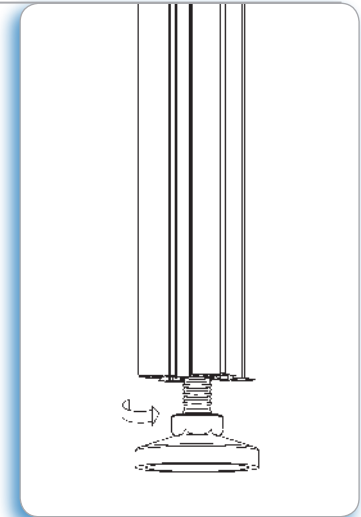
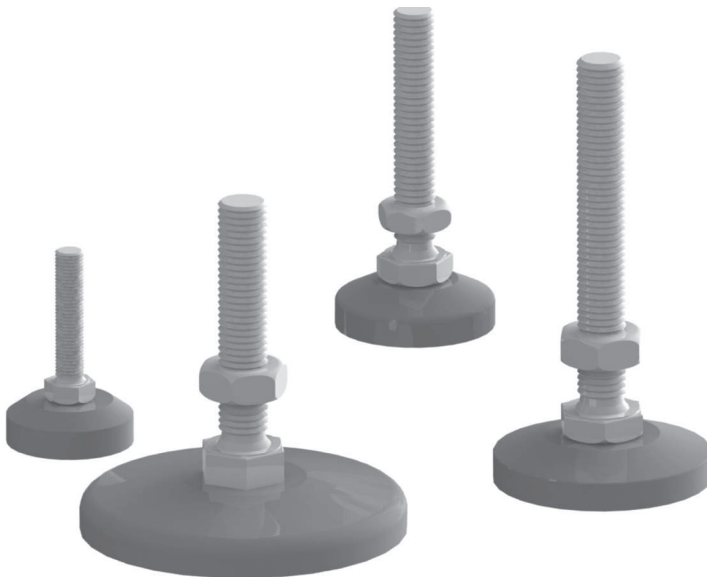
		h	
540780121	M12x100 mm	38 mm	0,318
540780125	M12x150 mm	38 mm	0,347
540780141	M14x100 mm	38 mm	0,349
540780145	M14x150 mm	38 mm	0,392
540780161	M16x100 mm	38 mm	0,368
540780165	M16x150 mm	38 mm	0,418

**PIE ANTIVIBRATORIO Ø 100 - MAX: 2500 KG**

Poliamida reforzada / Caucho 70 Shore A

		h	
5407100121	M12x100 mm	45 mm	0,468
5407100125	M12x150 mm	45 mm	0,497
5407100141	M14x100 mm	45 mm	0,499
5407100145	M14x150 mm	45 mm	0,542
5407100161	M16x100 mm	45 mm	0,518
5407100165	M16x150 mm	45 mm	0,568

**Pies, base de acero** Acero zincado  
**Adjustable knuckle feet** Zinc plated steel



**Ø 35 - MAX: 800 KG**

Barcode	Thread	h	kg
540535830	M8x30 mm	13 mm	0,394

**Ø 44 - MAX: 1100 KG**

Barcode	Thread	h	kg
540544127	M12x70 mm	15 mm	0,178
540544121	M12x100 mm	15 mm	0,505
540544147	M14x70 mm	15 mm	0,213
540544141	M14x100 mm	15 mm	0,239

**Ø 60 - MAX: 1500 KG**

Barcode	Thread	h	kg
540560127	M12x70 mm	13 mm	0,249
540560121	M12x100 mm	13 mm	0,270
540560147	M14x70 mm	13 mm	0,284
540560141	M14x100 mm	13 mm	0,310
540560161	M16x100 mm	13 mm	0,367
540560201	M20x100 mm	13 mm	0,478

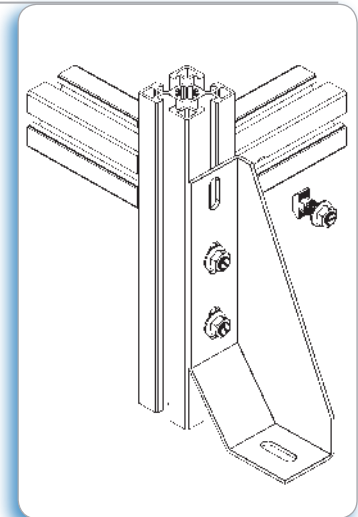
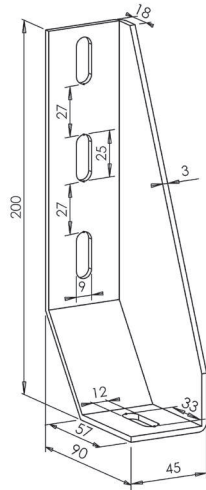
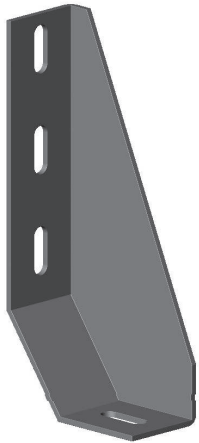
**Ø 90 - MAX: 2500 KG**

Barcode	Thread	h	kg
540690127	M12x70 mm	15 mm	0,611
540690121	M12x100 mm	15 mm	0,632
540690147	M14x70 mm	15 mm	0,646
540690141	M14x100 mm	15 mm	0,672
540690161	M16x100 mm	15 mm	0,728
540690201	M20x100 mm	15 mm	0,839





**Escuadra de fijación a suelo** Acero zincado  
**Floor bracket** Zinc plated steel



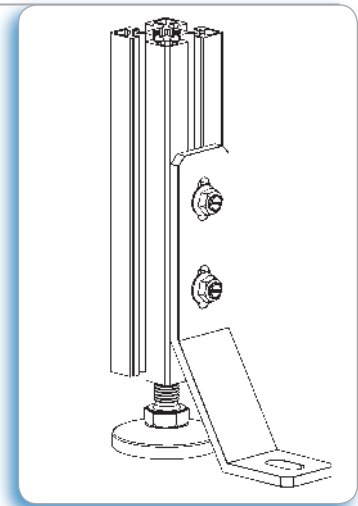
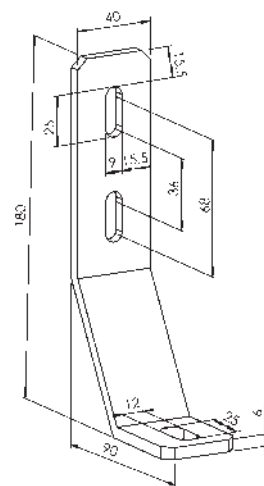
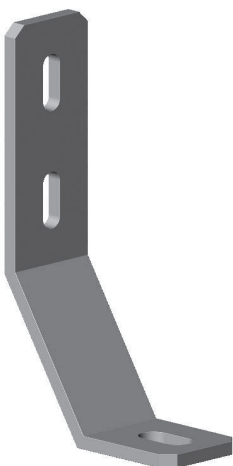
**Aplicación**  
 Para el anclaje de estructuras de aluminio al suelo.

**Application**  
 Suitable for a secure fixing of aluminium structures to the floor.

5412

0,467

**Refuerzo de fijación a suelo** Acero zincado  
**Floor fixing support** Zinc plated steel



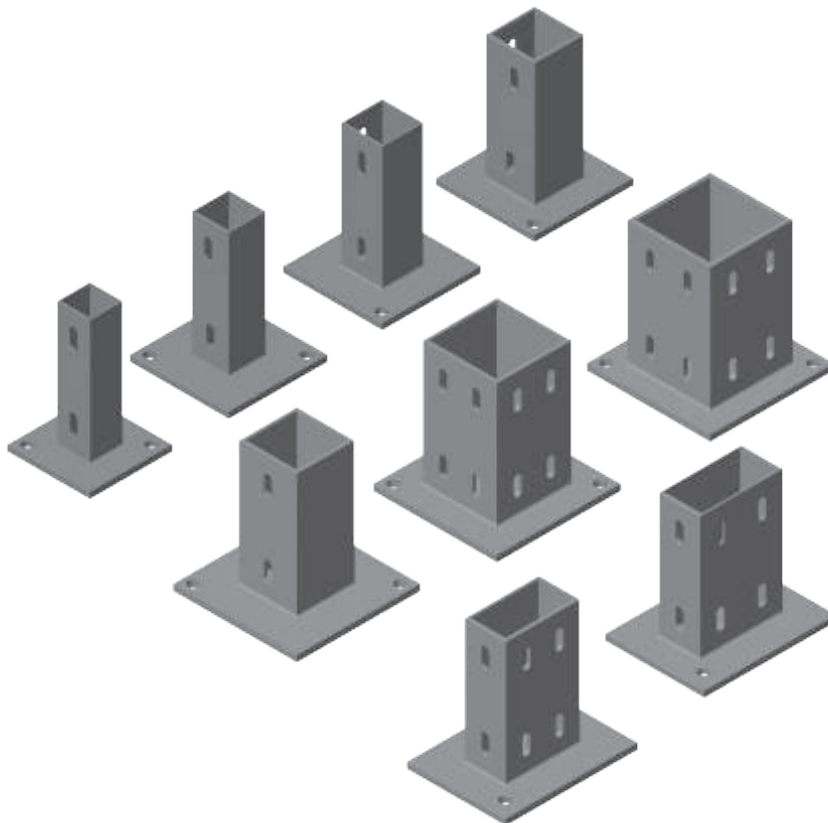
**Aplicación**  
 Como apoyo para la sujeción de estructuras de aluminio al suelo.

**Application**  
 As support for the fixing of aluminium structures to the floor.

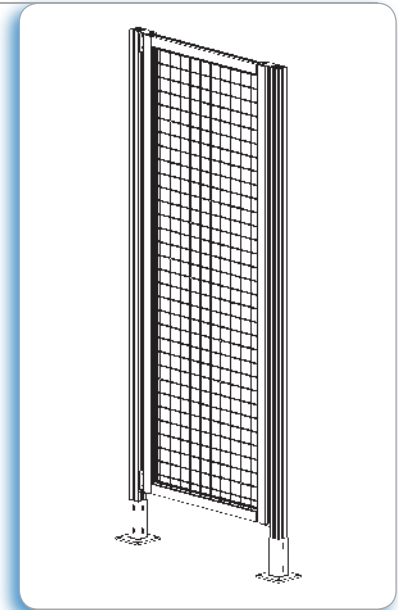
5413

0,403

**Soportes de anclaje a suelo** Acero zincado  
**Floor fixing feet** Zinc plated steel



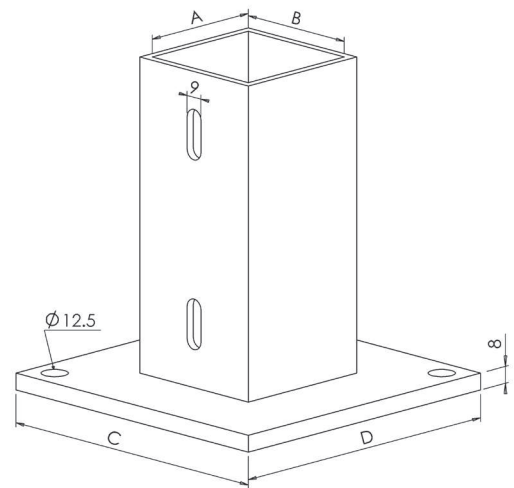
35  
40  
45  
50  
60  
80  
90



**Aplicación**  
Para la fijación de vallados y cerramientos de seguridad de aluminio al suelo.

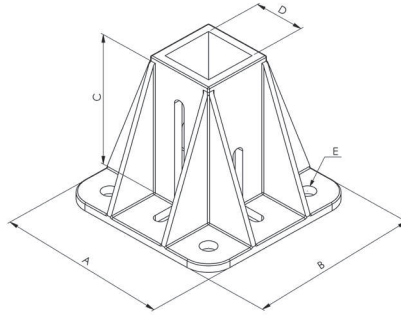
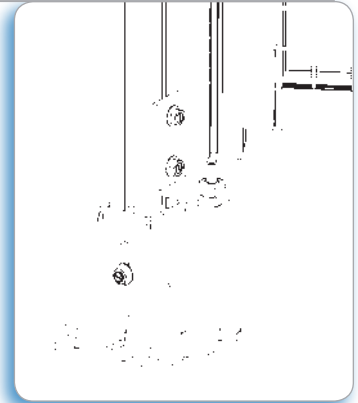
**Application**  
For the fixing of protection panels and safety enclosures to the floor.

Barcode	Profile	A	B	C	D	Weight (kg)
5419	35x35	35	35	100	100	1,2
5416	40x40	40	40	120	120	1,8
5410	45x45	45	45	120	120	1,9
5418	45x90	45	90	120	175	2,5
5414	60x60	60	60	120	120	3,1
5417	80x80	80	80	150	150	3,7
5411	90x90	90	90	150	150	4
5421	40x80	40	80	160	120	2,3
5422	50x50	50	50	160	120	2,7





**Soporte de anclaje a suelo 45x45 / 40x40** Aluminio fundido, color aluminio  
**Floor fixing foot** Die-cast aluminium, alu. colour



**Aplicación**

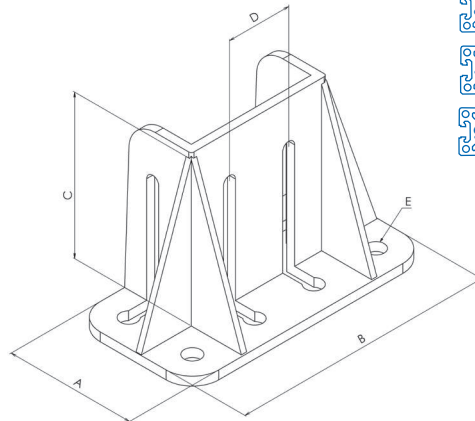
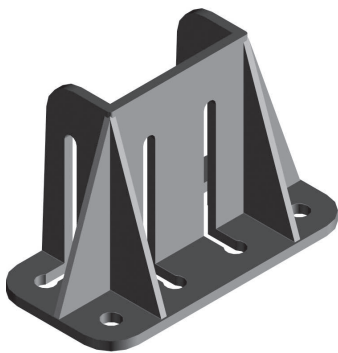
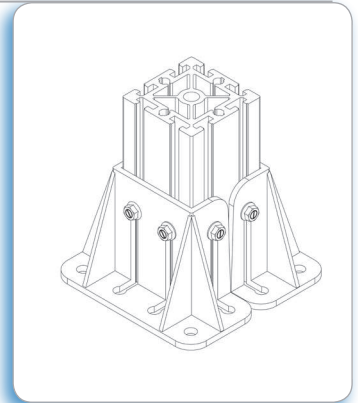
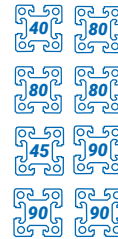
Para la fijación de vallados y cerramientos de seguridad de aluminio al suelo.

**Application**

For the fixing of protection panels and safety enclosures to the floor.

Barcode	Size	Weight (kg)	A	B	C	D	E
5415	45x45	0,725	135	135	120	46	12,5
54161	40x40	0,85	135	135	120	41	12,5

**Soporte de anclaje a suelo** Aluminio fundido, color aluminio  
**Floor fixing foot** Die-cast aluminium, alu. colour



**Aplicación**

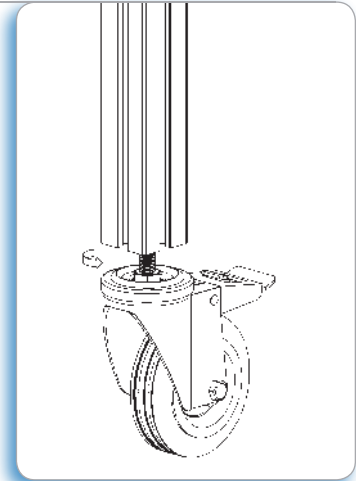
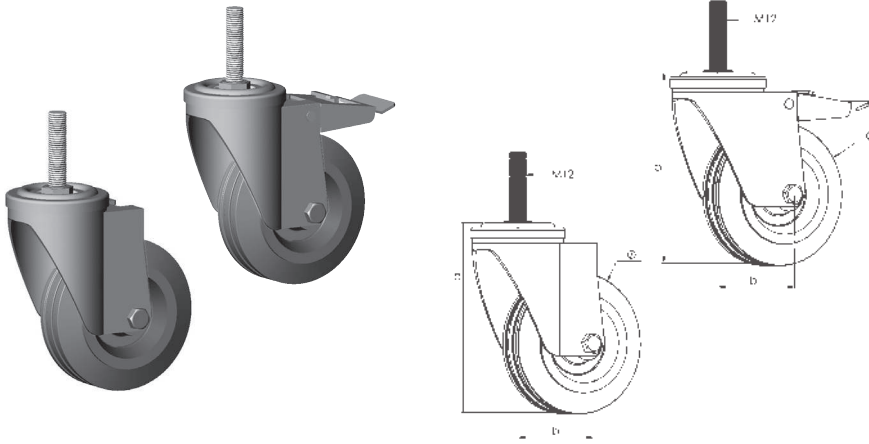
Para la fijación de perfiles al suelo.

**Application**

For the fixing of profiles to the floor.

Barcode	Size	Weight (kg)	A	B	C	D	E
5420	45x90 / 90x90	0,725	90	180	120	45	12,5
54211	40x80 / 80x80	0,725	85	170	120	40	12,5

**Ruedas giratorias de goma** Goma gris, soporte en acero  
**Rubber swivel wheels** Grey rubber, steel support



**Aplicación**  
De montaje en estructuras que requieran desplazamiento.

**Application**  
To use in structures that need to be displaced.

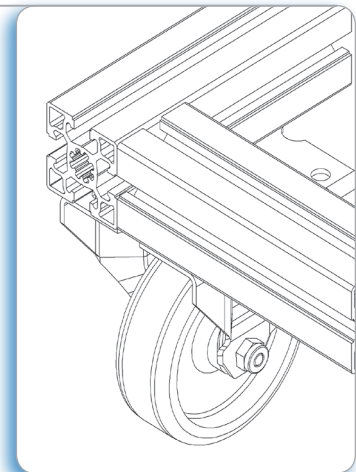
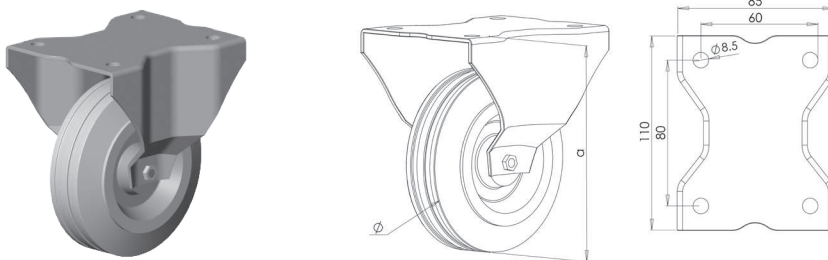
**SIN FRENO - WITHOUT BRAKE**

Barcode	∅	a	b	MAX. Kg	kg
542050127	50	73	22	50	0,313
542060127	60	83	23	60	0,341
542080127	80	104	24	65	0,611
5420100127	100	125	37	85	0,741
5420125127	125	160	49	110	0,900

**CON FRENO - WITH BRAKE**

Barcode	∅	a	b	MAX. Kg	kg
542150127	50	73	22	50	0,270
542160127	60	83	23	60	0,342
542180127	80	104	24	65	0,806
5421100127	100	125	37	85	0,936
5421125127	125	160	49	110	1

**Rueda fija de goma** Goma negra, soporte en acero  
**Rubber wheel** Black rubber, steel support



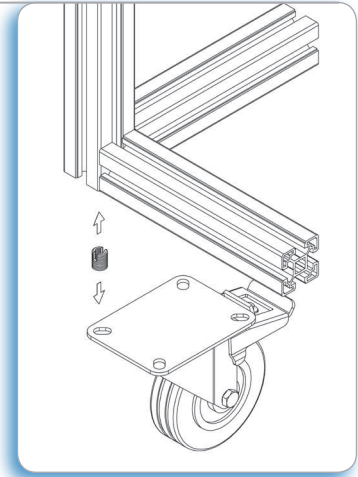
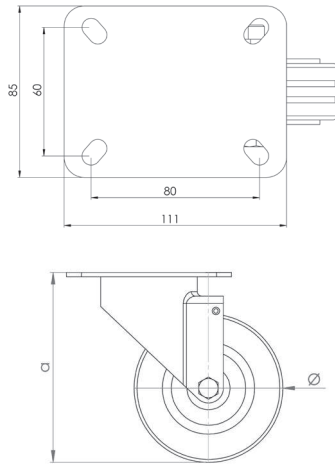
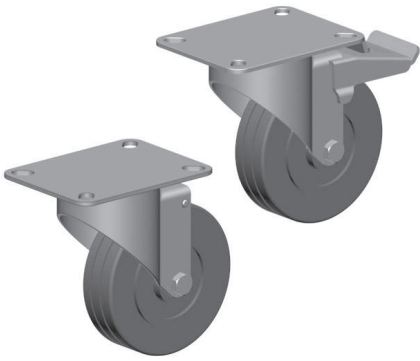
**Aplicación**  
De montaje en estructuras que requieran desplazamiento.

**Application**  
To use in structures that need to be displaced.

Barcode	∅	a	MAX. Kg	kg
5422100	100	130	100	0,686
5422125	125	155	125	0,948



**Rueda giratoria de goma con placa** Goma negra, soporte en acero  
**Rubber swivel wheel with plate** Black rubber, steel support



**Aplicación**  
 De montaje en estructuras que requieran desplazamiento. Tornillería no incluida.

**Application**  
 To use in structures that need to be displaced. Screws not included.

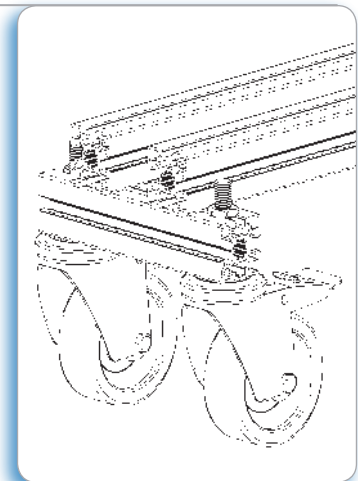
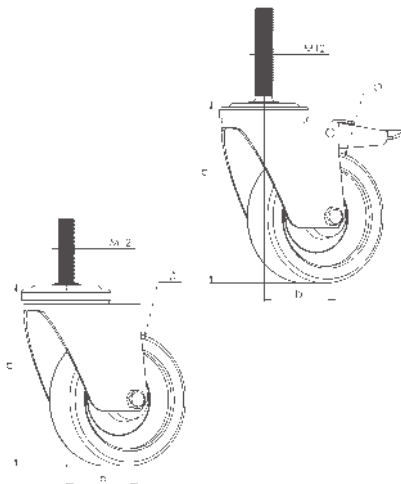
**SIN FRENO - WITHOUT BRAKE**

Barcode	Ø	a	MAX. Kg	kg
RG100	100	128	100	1,098
RG125	125	154	125	1,257

**CON FRENO - WITH BRAKE**

Barcode	Ø	a	MAX. Kg	kg
RGF100	100	128	100	1,293
RGF125	125	154	125	1,357

**Ruedas giratorias de nylon** Acero  
**Nylon swivel wheels** Steel



**Aplicación**  
 De montaje en estructuras que requieran desplazamiento.

**Application**  
 To use in structures that need to be displaced.

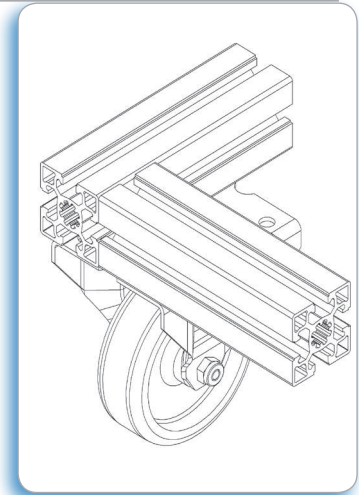
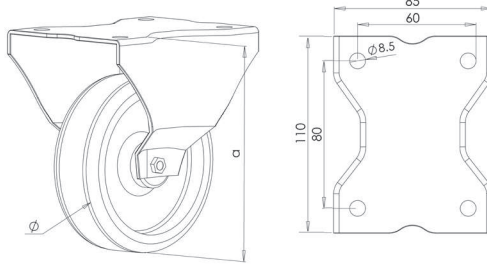
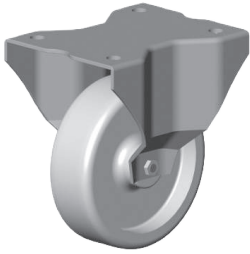
**SIN FRENO - WITHOUT BRAKE**

Barcode	Ø	a	b	MAX. Kg	kg
5423080127	80	104	24	150	0,725
54230100127	100	125	37	200	0,775
54230125127	125	160	49	250	0,945

**CON FRENO - WITH BRAKE**

Barcode	Ø	a	b	MAX. Kg	kg
5423180127	80	104	24	150	0,806
54231100127	100	125	37	200	0,900
54231125127	125	160	49	250	1,154

**Rueda fija de nylon** Acero  
**Nylon wheel** Steel



**Aplicación**

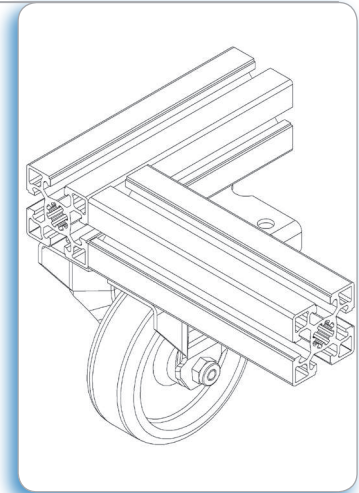
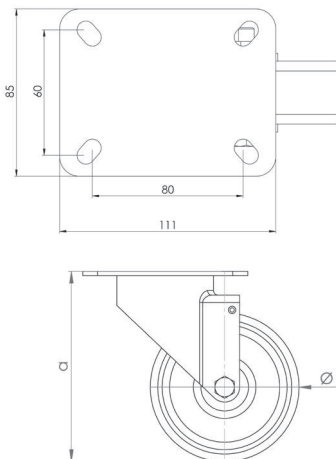
De montaje en estructuras que requieran desplazamiento.

**Application**

To use in structures that need to be displaced.

	∅	a	MAX. Kg	
5424100	100	126	160	0,524
5424125	125	153	220	0,728

**Rueda giratoria de nylon con placa** Soporte en acero  
**Nylon swivel wheel with plate** Steel support



**Aplicación**

De montaje en estructuras que requieran desplazamiento. Tornillería no incluida.

**Application**

To use in structures that need to be displaced. Screws not included.

**SIN FRENO - WITHOUT BRAKE**

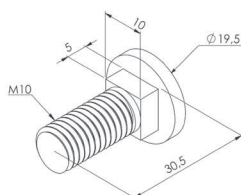
	∅	a	MAX. Kg	
RG100NYL	100	128	220	1,132
RG125NYL	125	154	300	1,302

**CON FRENO - WITH BRAKE**

	∅	a	MAX. Kg	
RGF100NYL	100	128	220	1,257
RGF125NYL	125	154	300	1,511

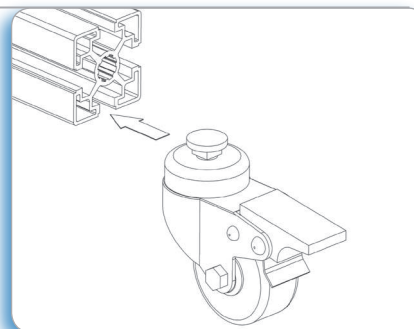


**Tornillo de fijación antigiro M10** Acero zincado  
**Anti-rotation fixing bolt M10** Zinc plated steel



536110

0,022



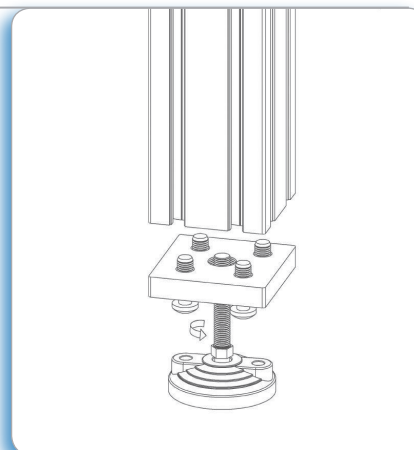
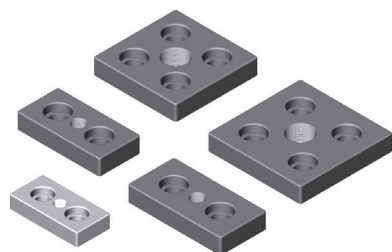
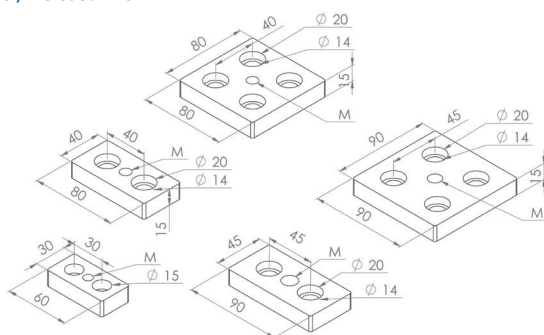
**Aplicación**

Para la fijación de ruedas y otros elementos sin necesidad de taladrar los perfiles.

**Application**

For the assembly of wheels and other accessories without drilling the aluminium profiles.

**Placas base** Acero zincado, Inyección de zinc  
**End plates** Zinc plated steel, Die-cast zinc



**Aplicación**

Para el ensamblaje de ruedas o pies en la base de perfiles de aluminio que no disponen de núcleo central donde roscar.

**Application**

For the assembly of adjustable feet or wheels on profiles lacking central channel.

**30 x 60** Acero zincado / Zinc plated steel

542912	M 12	0,168

**40 x 80** Inyección de zinc, negro / Die-cast zinc, black

543412	M 12	0,196
543414	M 14	0,195
543416	M 16	0,19

**80 x 80** Inyección de zinc, negro / Die-cast zinc, black

543512	M 12	0,364
543514	M 14	0,362
543516	M 16	0,355
543520	M 20	0,349

**45 x 90** Inyección de zinc, negro / Die-cast zinc, black

543012	M 12	0,244
543014	M 14	0,243
543016	M 16	0,238

**90 x 90** Inyección de zinc, negro / Die-cast zinc, black

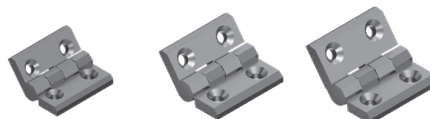
543112	M 12	0,436
543114	M 14	0,433
543116	M 16	0,427
543120	M 20	0,419

# ACCESORIOS PARA PUERTAS

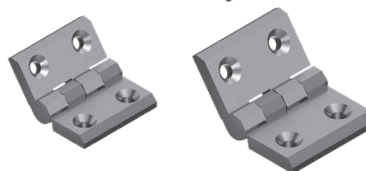
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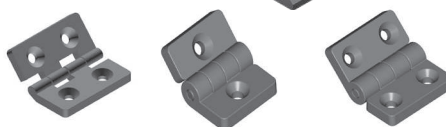
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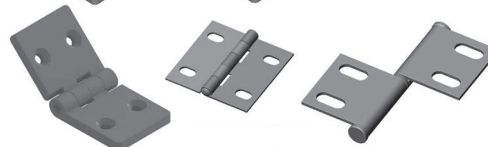
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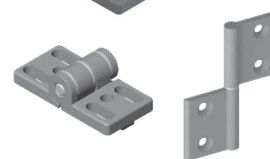
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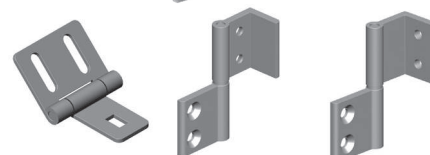
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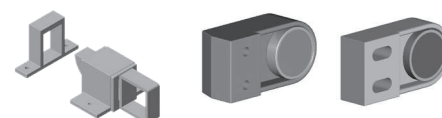
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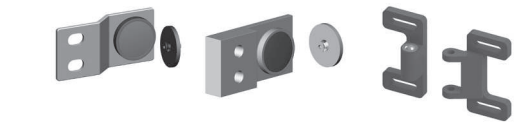
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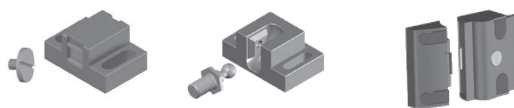
## DOOR ACCESSORIES



# ACCESORIOS PARA PUERTAS



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página/page 101



página/page 102



página/page 103



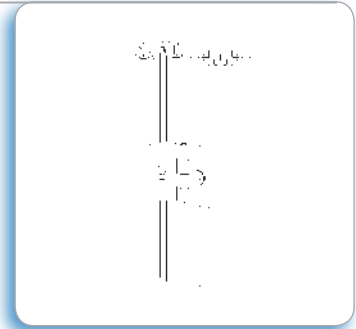
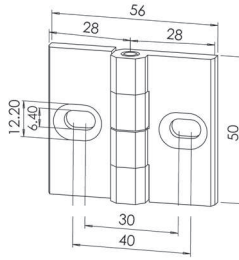
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## DOOR ACCESSORIES

**Bisagra metálica 50x56** Inyección de zinc  
**Metal hinge 50x56** Die-cast zinc



**Aplicación**

Gracias a los agujeros rasgados, pueden ser utilizadas con perfiles de diferentes medidas.

**Application**

Due to the almond-shaped holes, it can be used on profiles of various measures.

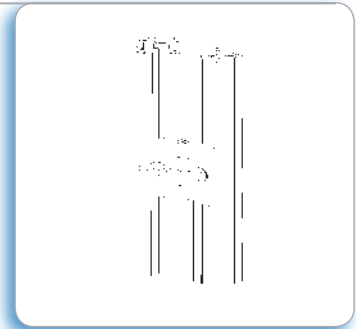
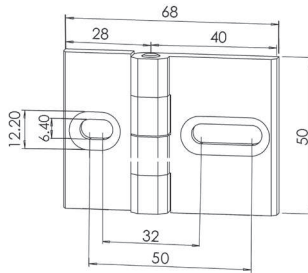


56071



0,102

**Bisagra metálica 50x68** Inyección de zinc  
**Metal hinge 50x68** Die-cast zinc



**Aplicación**

Gracias a los agujeros rasgados, pueden ser utilizadas con perfiles de diferentes medidas.

**Application**

Due to the almond-shaped holes, it can be used on profiles of various measures.

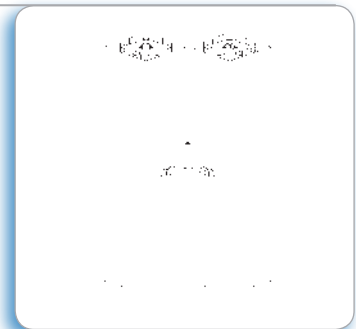
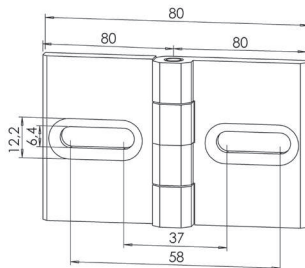
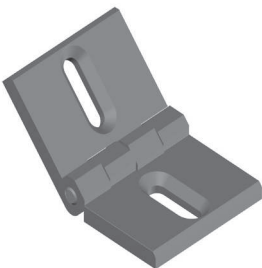


56081



0,119

**Bisagra metálica 50x80** Inyección de zinc  
**Metal hinge 50x80** Die-cast zinc



**Aplicación**

Gracias a los agujeros rasgados, pueden ser utilizadas con perfiles de diferentes medidas.

**Application**

Due to the almond-shaped holes, it can be used on profiles of various measures.

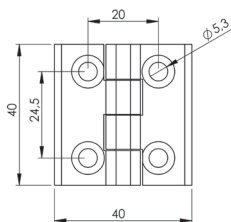
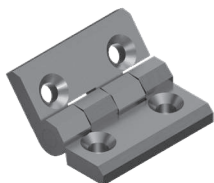


56091



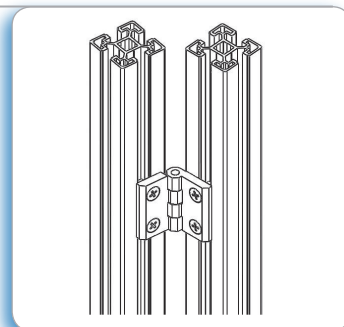
0,136

**Bisagra metálica 40x40** Inyección de aluminio  
**Metal hinge 40x40** Die-cast aluminium



  
56150

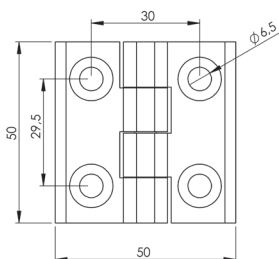
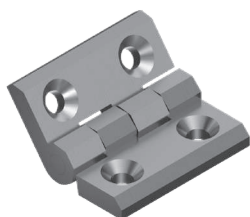
  
0,021



**Aplicación**  
De uso en puertas y paneles.

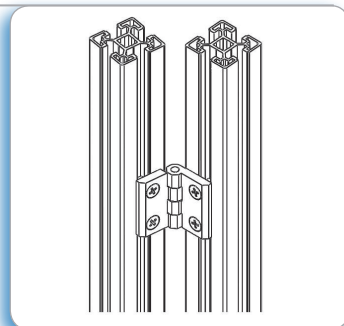
**Application**  
Suitable for doors and panels.

**Bisagra metálica 50x50** Inyección de aluminio  
**Metal hinge 50x50** Die-cast aluminium



  
56151

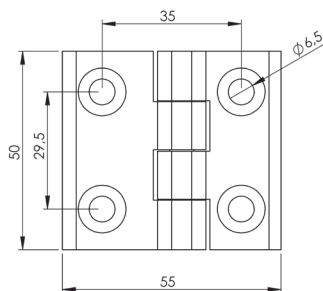
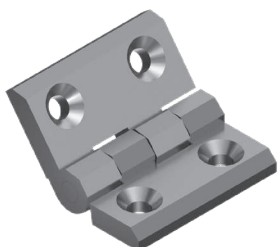
  
0,041



**Aplicación**  
De uso en puertas y paneles

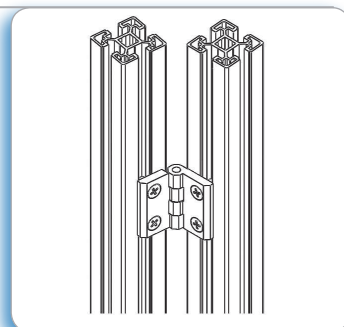
**Application**  
Suitable for door and panels

**Bisagra metálica 50x55** Inyección de aluminio  
**Metal hinge 50x55** Die-cast aluminium



  
56152

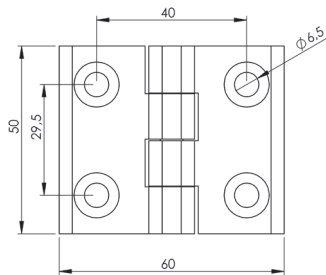
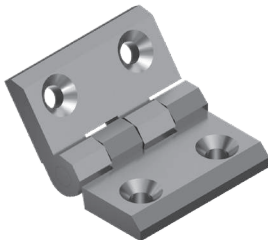
  
0,045



**Aplicación**  
De uso en puertas y paneles.

**Application**  
Suitable for doors and panels

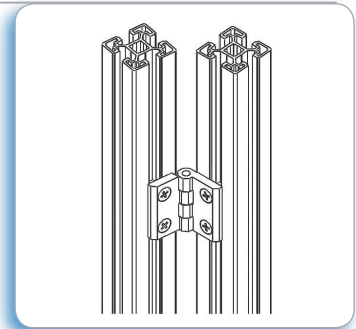
**Bisagra metálica 50x60** Inyección de aluminio  
**Metal hinge 50x60** Die-cast aluminium



56153



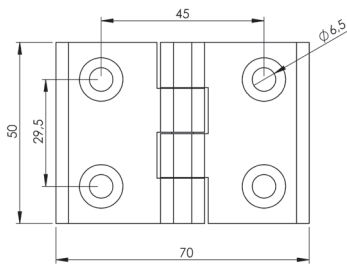
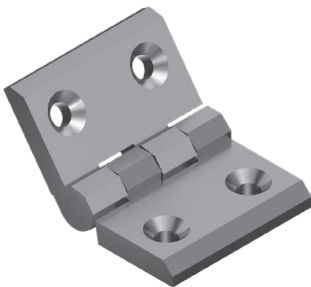
0,049



**Aplicación**  
De uso en puertas y paneles.

**Application**  
Suitable for doors and panels

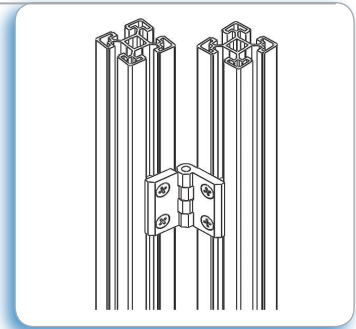
**Bisagra metálica 50x70** Inyección de aluminio  
**Metal hinge 50x70** Die-cast aluminium



56154



0,051

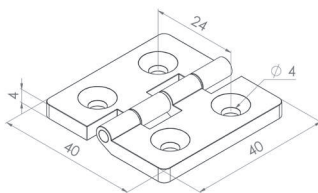
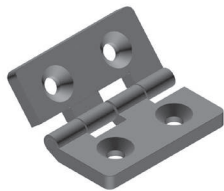


**Aplicación**  
De uso en puertas y paneles.

**Application**  
Suitable for doors and panels

**Bisagra 40x40** Poliamida

**Hinge 40x40** Fibreglass reinforced nylon

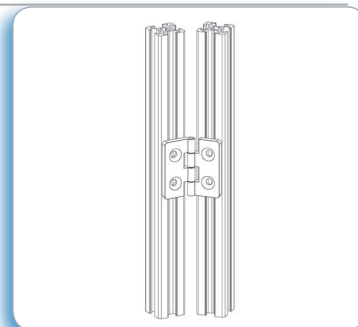


5606



0,009

20



**Aplicación**

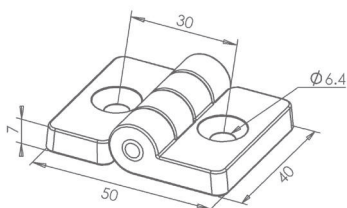
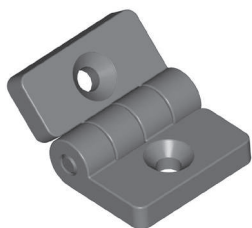
De uso en puertas y paneles de pequeñas dimensiones.

**Application**

Suitable for small-size doors and panels.

**Bisagra 40x50** Poliamida

**Hinge 40x50** Fibreglass reinforced nylon



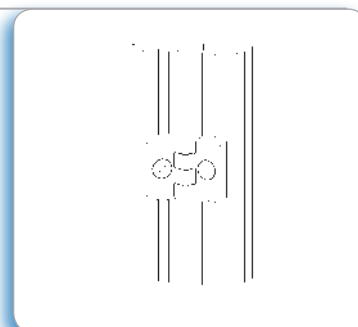
5607



0,026

25

30



**Aplicación**

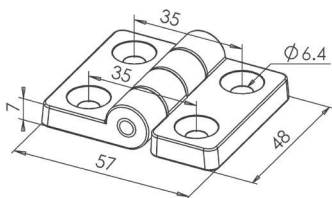
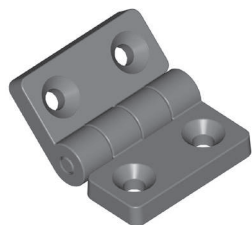
De uso en puertas y paneles de pequeñas dimensiones.

**Application**

Suitable for small-size doors and panels.

**Bisagra 48x57** Poliamida

**Hinge 48x57** Fibreglass reinforced nylon



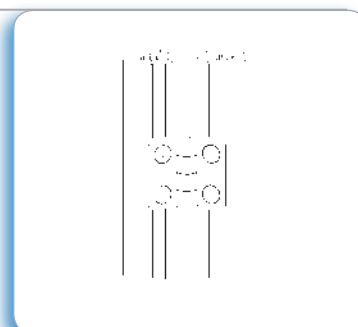
5608



0,035

30

35



**Aplicación**

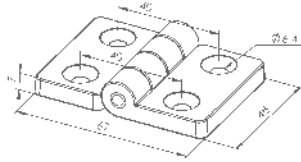
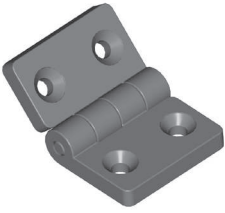
De uso en puertas y paneles de pequeñas dimensiones.

**Application**

Suitable for small-size doors and panels.

**Bisagra 48x67** Poliamida

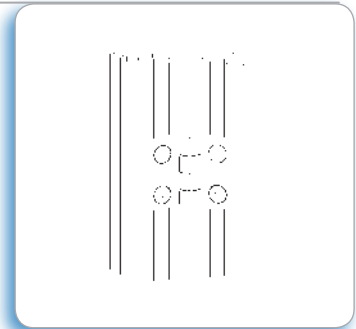
**Hinge 48x67** Fibreglass reinforced nylon



5609



0,038



**Aplicación**

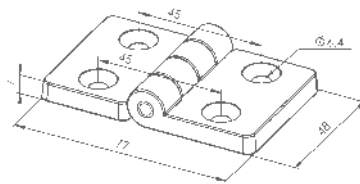
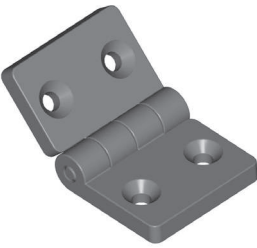
De uso en puertas y paneles de pequeñas dimensiones.

**Application**

Suitable for small-size doors and panels.

**Bisagra 48x77** Poliamida

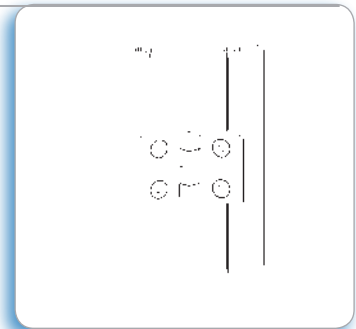
**Hinge 48x77** Fibreglass reinforced nylon



56010



0,042



**Aplicación**

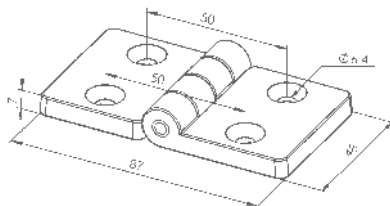
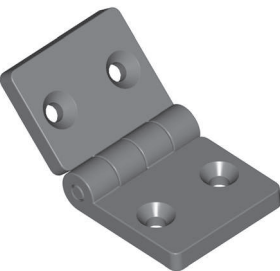
De uso en puertas y paneles.

**Application**

Suitable for doors and panels.

**Bisagra 48x87** Poliamida

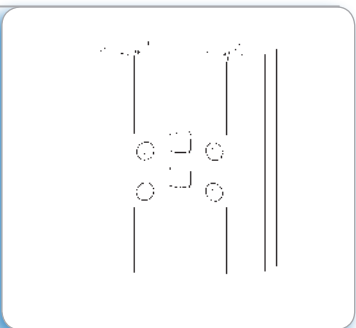
**Hinge 48x87** Fibreglass reinforced nylon



56011



0,044



**Aplicación**

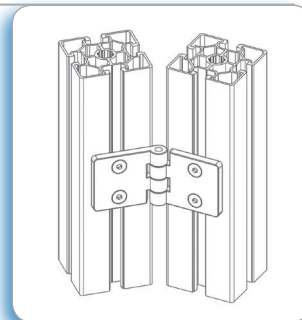
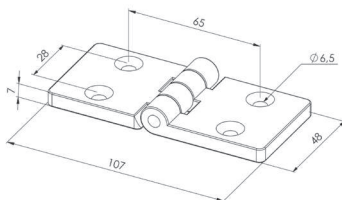
De uso en puertas y paneles.

**Application**

Suitable for doors and panels.

**Bisagra 48x107** Poliamida  
**Hinge 48x107** Fibreglass reinforced nylon

60



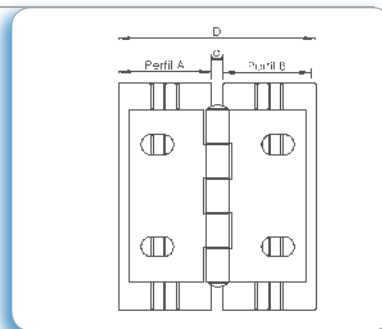
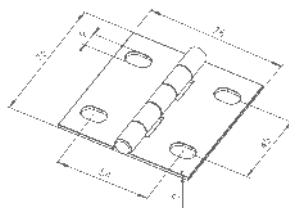
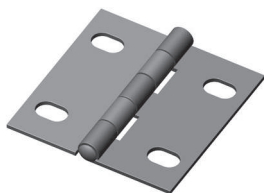
**Aplicación**  
 De uso en puertas y paneles.

**Application**  
 Suitable for doors and panels.

56012

0,054

**Bisagra 76x76** Acero inoxidable  
**Hinge 76x76** Stainless steel



**Aplicación**  
 Gracias a los agujeros alargados, permite su utilización entre perfiles de múltiples medidas.

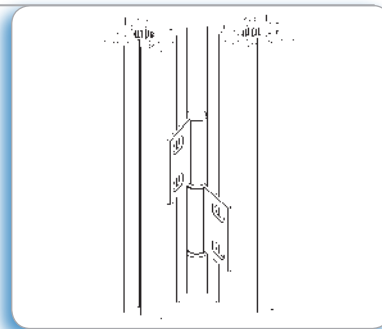
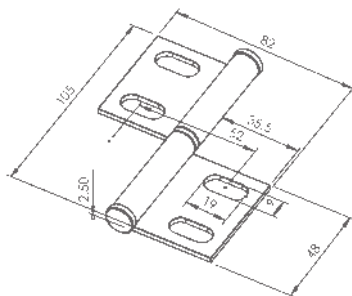
**Application**  
 Due to the almond-shaped holes it can be used on profiles of various measures.

5610

75 mm > D < 100 mm

0,118

**Bisagra desmontable 105x82** Acero inoxidable  
**Detachable hinge 105x82** Stainless steel



**Aplicación**  
 Permite desmontar la puerta del marco sin necesidad de desatornillar la bisagra. Queda oculta entre los perfiles donde se aloja. De uso en puertas de cerramientos de seguridad y vallados.

**Application**  
 The door can be lifted-off without unscrewing the hinge. The hinge remains hidden between both profiles. Recommended for the assembly in safety enclosure doors.

56111

Mod. Izda./Left.

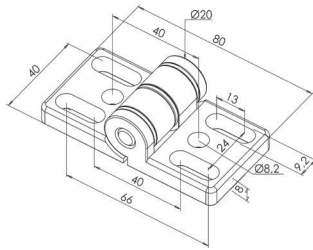
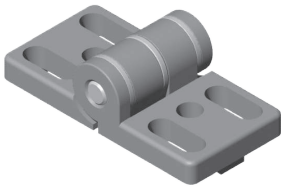
0,150

56112

Mod. Dcha./Right.

0,150

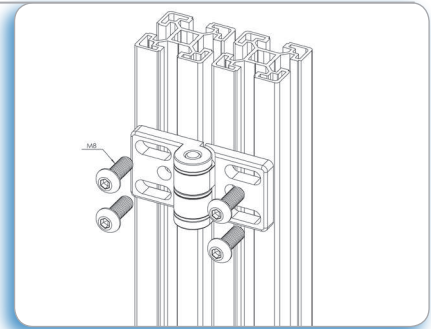
**Bisagra metálica 80x40** Inyección de zinc  
**Metal hinge 80x40** Die-cast zinc



5612



0,176



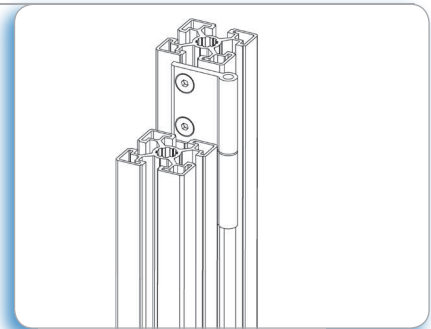
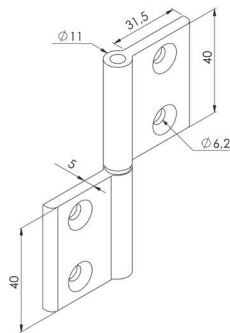
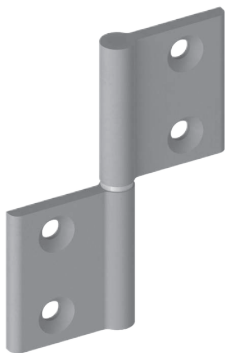
**Aplicación**

La unión de los perfiles puede realizarse tanto en el canal como en el extremo de los perfiles. Si fuera necesario, pueden eliminarse las pestañas de posicionamiento utilizando un destornillador.

**Application**

Fastening is possible on profile slots or at the end of profiles. If required, the guiding pin can be removed with a screwdriver.

**Bisagra desmontable** Aluminio anodizado  
**Detachable hinge** Anodized aluminium



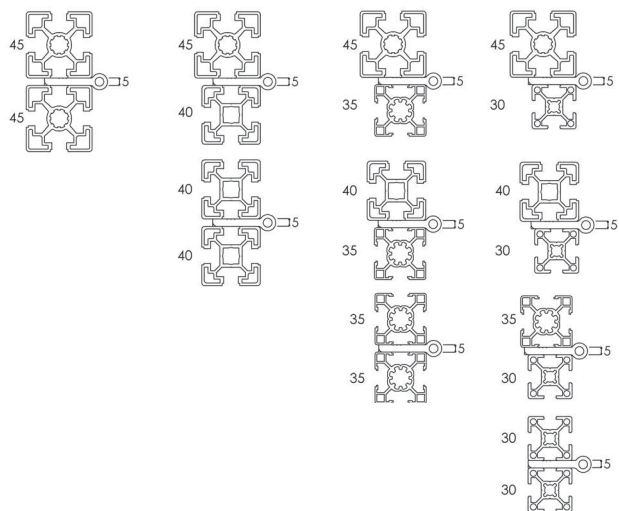
**Aplicación**

Permite desmontar la puerta del marco sin necesidad de desatornillar la bisagra. Queda oculta entre los perfiles donde se aloja. De uso en puertas de cerramientos de seguridad y vallados.

**Application**

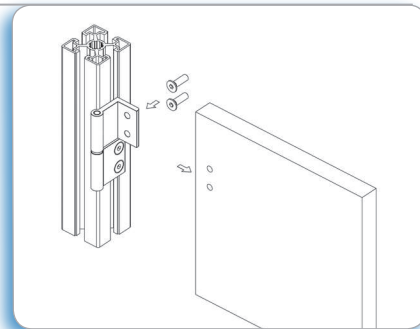
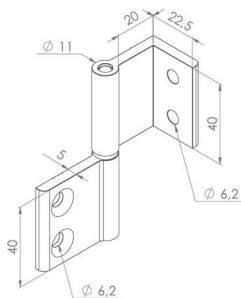
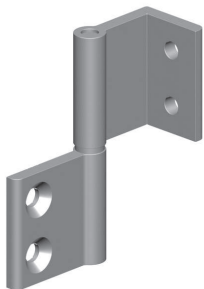
The door can be lifted-off without unscrewing the hinge. The hinge remains hidden between both profiles. Recommended for the assembly in safety enclosure doors.

Barcode	Dimensions	Weight (Kg)
56130	45-45	0,06
56131	45-40	0,06
56132	45-35	0,06
56133	45-30	0,06
<hr/>		
56134	40-40	0,06
56135	40-35	0,06
56136	40-30	0,06
<hr/>		
56137	35-35	0,06
56138	35-30	0,06
<hr/>		
56139	30-30	0,06





**Bisagra desmontable para panel** Aluminio anodizado  
**Detachable hinge for panel** Anodized aluminium



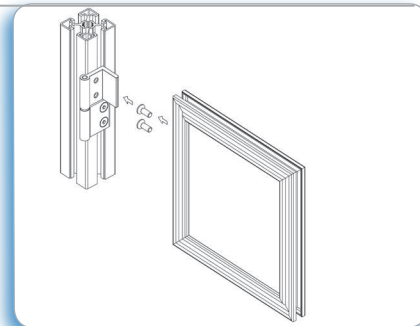
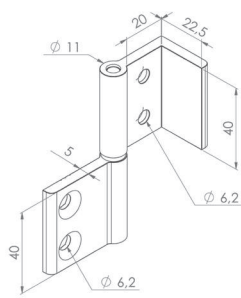
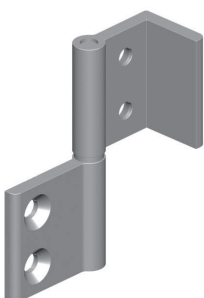
**Aplicación**  
 Para el montaje de puertas abatibles sin marcos en los perfiles. Los paneles o tableros van fijados directamente a la bisagra.

**Application**  
 For the assembly of non frame swinging doors to profiles. Panels are directly attached to hinges.

Barcode	Icon	Weight (Kg)
56144	30	0,07
56145	35	0,07
56146	40	0,07
56147	45	0,07



**Bisagra desmontable para perfil marco 20x22,5 mm** Aluminio anodizado  
**Detachable hinge for frame profile 20x22,5 mm** Anodized aluminium



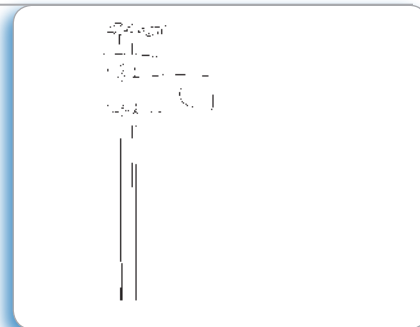
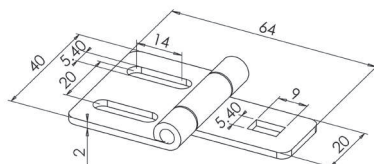
**Aplicación**  
 Para el montaje de puertas abatibles en los perfiles. De uso con el perfil marco 20x22,5 cod.50946.

**Application**  
 For the assembly of swinging doors to profiles. To be used with frame profile 20x22,5 cod.50946.

Barcode	Icon	Weight (Kg)
56140	30	0,07
56141	35	0,07
56142	40	0,07
56143	45	0,07



**Bisagra metálica 40x64** Acero, color negro  
**Hinge 40x64** Steel, black

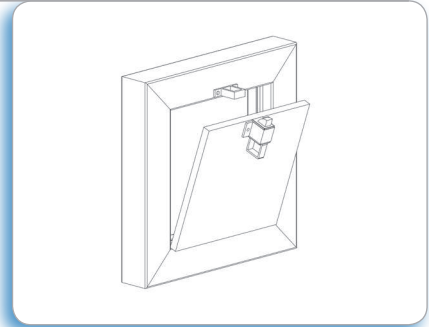
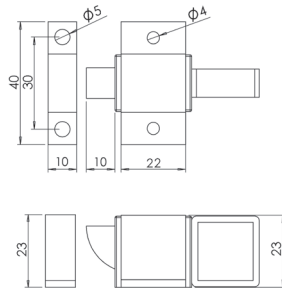
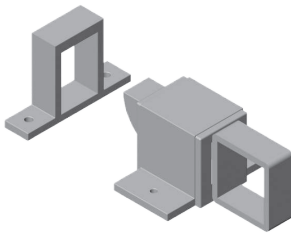


**Aplicación**  
 Para puertas y tapas que necesiten un giro de 180°. Esta bisagra puede ser fijada en el interior de los perfiles.

**Application**  
 For lids and doors that need 180° swing. Hinge can be attached on the inside.

Barcode	Weight (Kg)
5611	0,038

**Cierre golpete** Aluminio, anodizado natural  
**Door catch** Anodized aluminium



**Aplicación**  
Para puertas abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

**Application**  
For the assembly of swinging doors. It can be fixed on the profile slot or directly attached to panels.

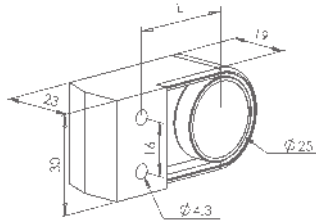
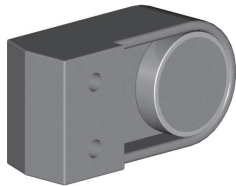


56311

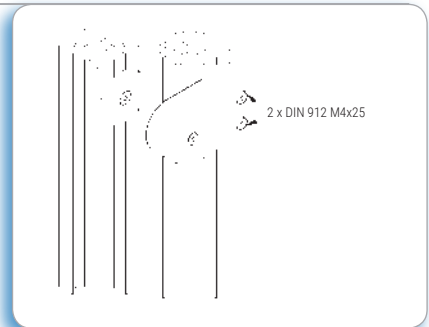


0,040

**Cierre magnético** Poliamida, color negro  
**Slam latch** Fibreglass reinforced nylon, black



25  
30  
35



**Aplicación**  
Para uso en puertas abatibles construidas en perfiles de sección pequeña: 25, 30 y 35 mm.

**Application**  
To use in doors built with small section profiles: 25, 30, 35 mm.



56322



30 mm



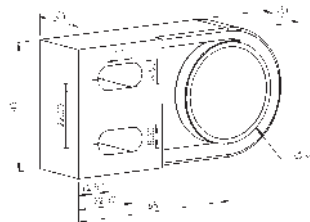
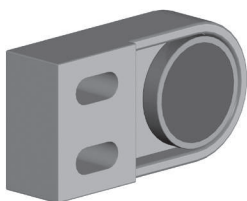
0,068

56323

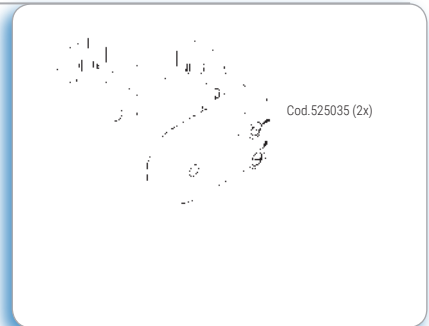
35 mm

0,068

**Cierre magnético** Poliamida, color negro  
**Slam latch** Fibreglass reinforced nylon, black



40  
45



**Aplicación**  
Para uso en puertas abatibles construidas en perfiles de sección grande: 40, 45 mm.

**Application**  
To use in doors built with large section profiles: 40, 45 mm.

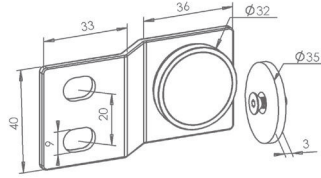
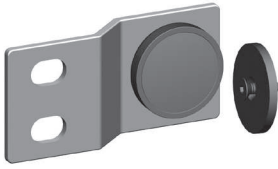


56324



0,118

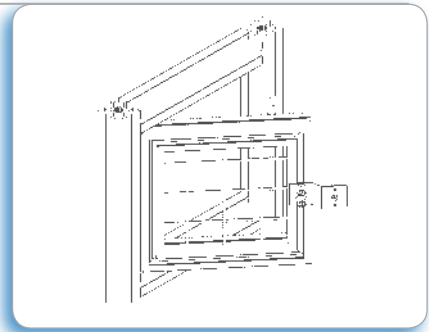
**Cierre magnético** Acero zincado  
**Magnetic lock** Zinc plated steel



5632



0,127



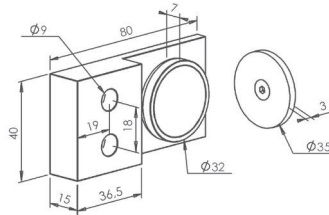
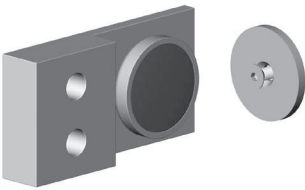
**Aplicación**

Para puertas abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

**Application**

For the assembly of swinging doors. It can be fixed on the profile slot or directly attached to panels.

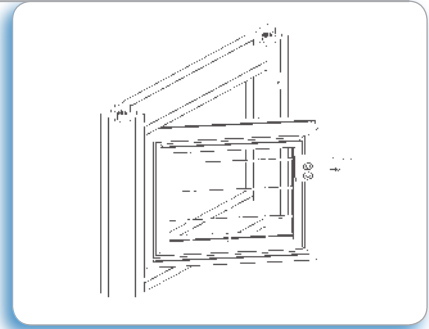
**Cierre magnético** Aluminio anodizado  
**Magnetic lock** Anodized aluminium



56321



0,114



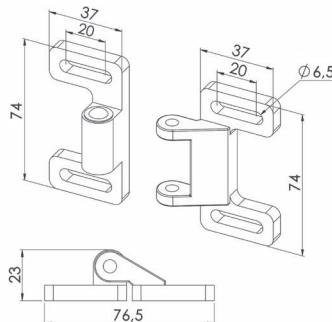
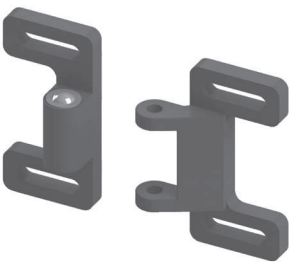
**Aplicación**

Para puertas abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

**Application**

For the assembly of swinging doors. It can be fixed on the profile slot or directly attached to panels.

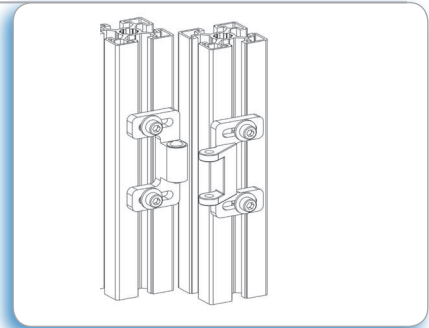
**Cierre de bolas reforzado** Poliamida reforzada, negro  
**Reinforced ball catch** Fiberglass reinforced nylon, black



56302



0,046



**Aplicación**

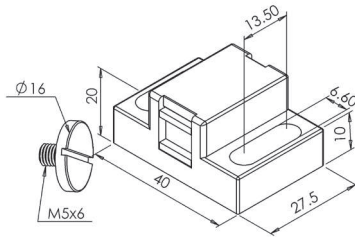
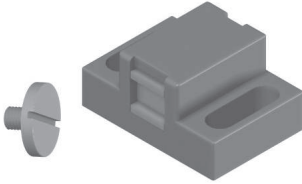
Para puertas correderas y abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

**Application**

For the assembly of sliding and swinging door. It can be fixed on the profile slot or directly attached to panels.

**Imán** Poliamida, color negro

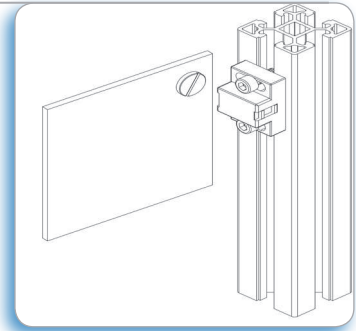
**Magnet** Fiberglass reinforced nylon, black



5634



0,034



**Aplicación**

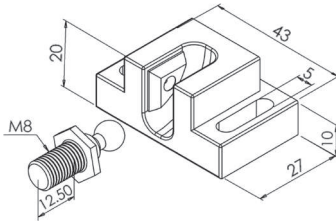
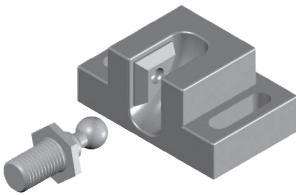
Para puertas correderas y abatibles. Se puede colocar directamente sobre los paneles.

**Application**

For the assembly of sliding and swinging doors. It can be mounted directly attached to panels.

**Cierre enganche** Poliamida color negro

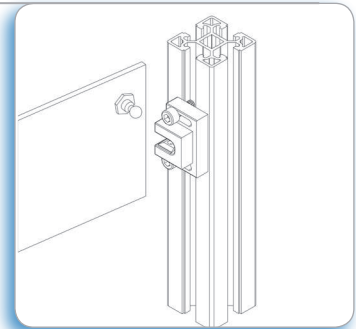
**Ball catch** Fiberglass reinforced nylon, black



563241



0,026



**Aplicación**

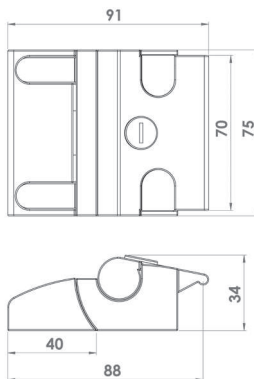
Para puertas correderas y abatibles. Se puede colocar directamente sobre los paneles.

**Application**

For the assembly of sliding and swinging doors. It can be mounted directly attached to panels.

**Cerradura de sobrepone con llave** Inyección de zinc, color negro

**Overlap lock** Die-cast zinc, black colour



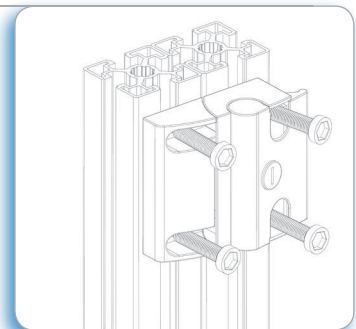
**No necesita mecanización**  
**No Machinning needed**



563251



0,55



**Aplicación**

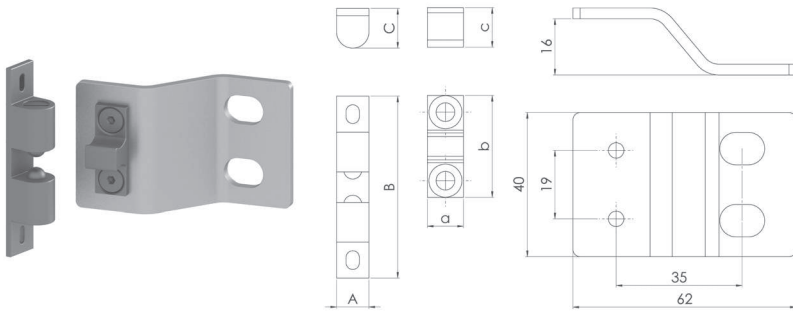
Para cerrar puertas de forma segura. Válida para tope a la izquierda y a la derecha. El montaje no necesita de mecanización de los perfiles. Llave incluida.

**Application**

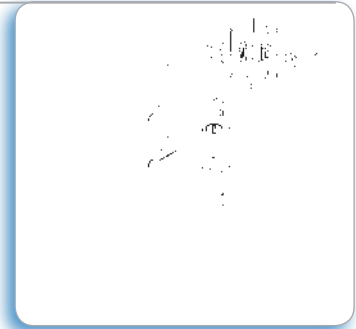
To close doors securely. Suitable for both right and left hands. Assembly does not need machining of profiles. Key included.

**Cierre de bolas** Latón con bolas de acero inoxidable  
**Ball catch** Brass, stainless steel balls

8 mm



56301	A	B	C	a	b	c	kg
56301	9	50	11	9,2	28,5	11	0,087



**Aplicación**

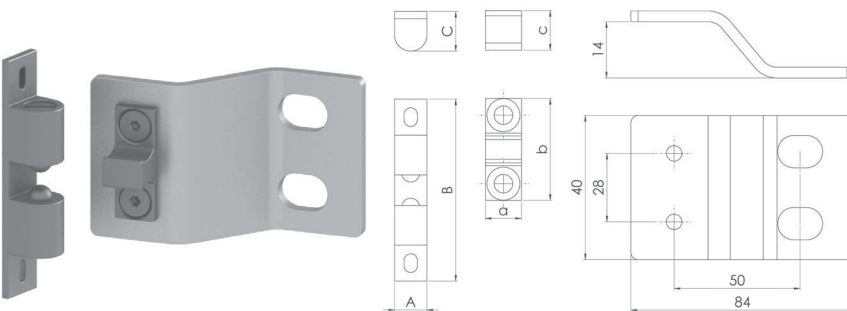
Para puertas correderas y abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

**Application**

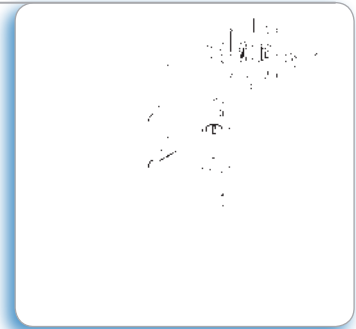
For the assembly of sliding and swinging door. It can be fixed on the profile slot or directly attached to panels.

**Cierre de bolas** Latón con bolas de acero inoxidable  
**Ball catch** Brass, stainless steel balls

10 mm



5630	A	B	C	a	b	c	kg
5630	11,5	60	13	10,5	37,2	12,5	0,127



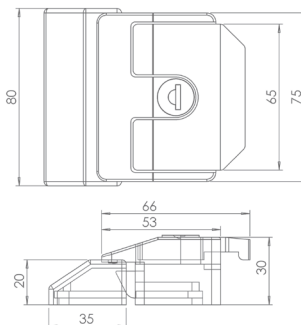
**Aplicación**

Para puertas correderas y abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

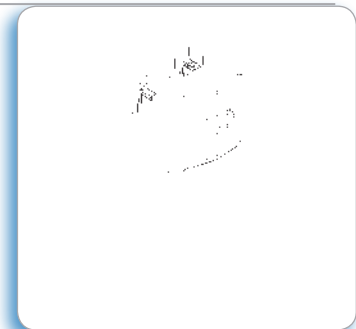
**Application**

For the assembly of sliding and swinging door. It can be fixed on the profile slot or directly attached to panels.

**Cierre con llave** Inyección de zinc, color negro  
**Slam latch** Die-cast zinc, black colour



56325	kg
56325	0,563



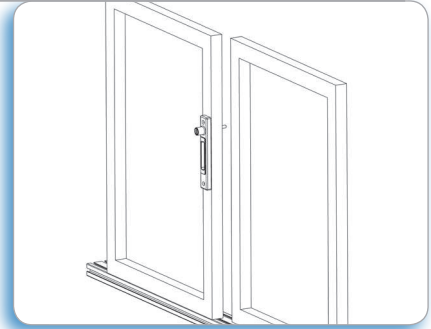
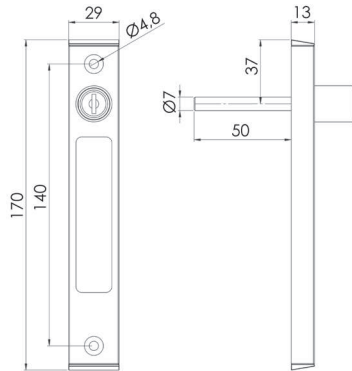
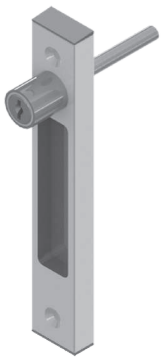
**Aplicación**

Para cerrar puertas de forma segura. Válida para tope a la izquierda y a la derecha. Montaje desde el interior de los perfiles. Llave universal incluida.

**Application**

To close doors securely. Suitable for both right and left hands. Assembly from the interior side of profiles. Universal key included.

**Cerradura central puerta corredera** Aluminio, color negro  
**Sliding door lock** Aluminium, black



**Aplicación**

Para el cierre de puertas correderas con marcos. Se necesita realizar un taladro Ø8 mm. en el perfil de fijación del cierre. Llaves incluidas.

**Application**

To close sliding doors with frame, Drill Ø8 mm. needed in lock fixing profile. Keys included.

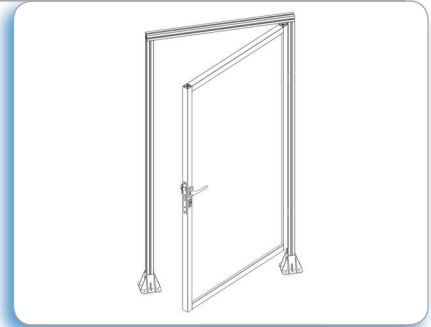
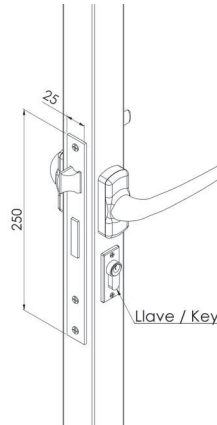


56326



0,156

**Cerradura integrada**  
**Integrated lock**



**Aplicación**

Para el cierre de puertas abatibles. La cerradura va integrada en el perfil vertical de 45x45. Incluye tirador y llaves.

**Application**

To close swing doors securely. Lock is integrated in the vertical profile 45x45. Lever and keys included.

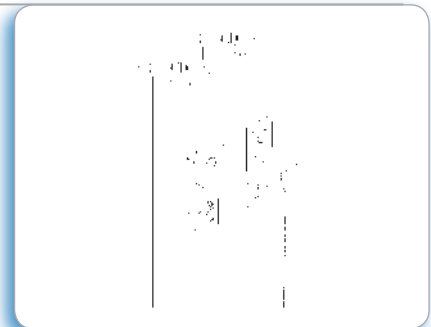
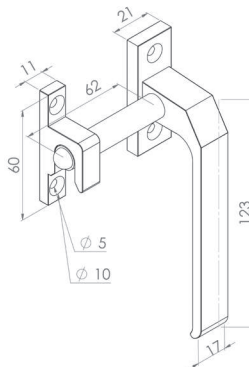


56327



0,4

**Cierre de presión** Aluminio, anodizado natural  
**Locking kit** Anodized aluminium



**Aplicación**

Como cierre de puertas abatibles. Se puede colocar tanto en los canales de los perfiles como directamente sobre los paneles.

**Application**

It can be fixed on the profile slot or directly attached to panels.



56331



Mod. Izda./Left.



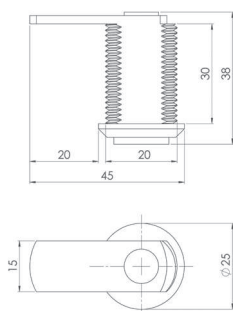
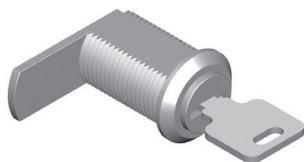
0,181

56332

Mod. Dcha./Right.

0,181

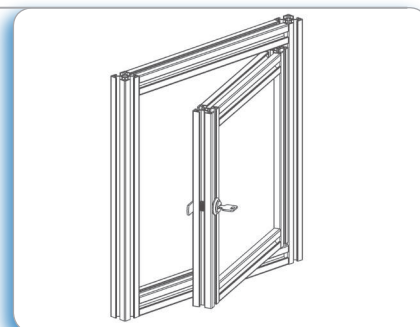
**Cierre bombillo** Acero zincado  
**Bulb lock** Zinc plated steel



56328



0,065



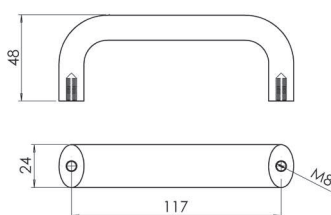
**Aplicación**

Para embutir en los perfiles de la serie 30mm mediante mecanizado Ø20 mm. Llaves iguales.

**Application**

To be used in profiles serie 30 mm. The profile must be drilled with a 20 mm diameter hole. Keys alike.

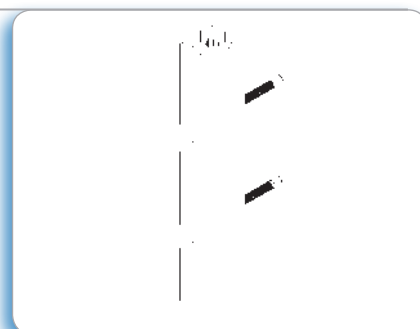
**Tirador en U** Poliamida, color negro  
**U handle** Fibregalss reinforced nylon, black



5626



0,090



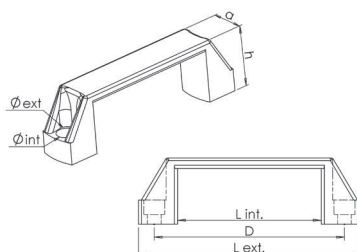
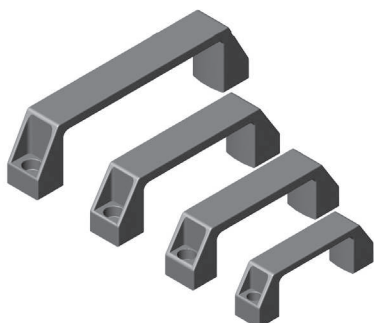
**Aplicación**

Para todo tipo de puertas y paneles. Debe ser montado roscando un tornillo por detrás.

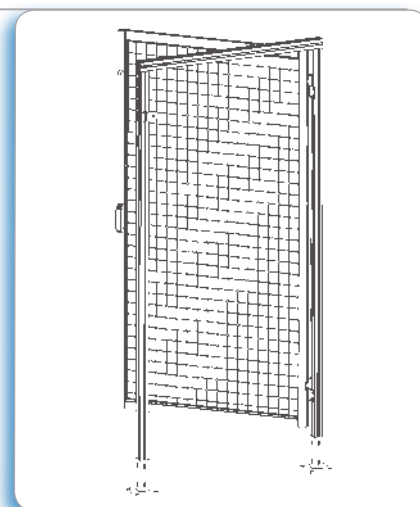
**Application**

For all types of doors and panels. Handle must be rear-mounted.

**Tiradores** Poliamida reforzada  
**Handle** Fibreglass reinforced nylon



Barcode	L ext	D	a	h	Øint.	Øext.	kg
5620	109	93	20	41	6,7	11	0,028
5621	136	117	25	42	8,5	14	0,047
5622	152	133	25	47	8,5	14	0,055
5623	195	175	28	51	8,5	14	0,08



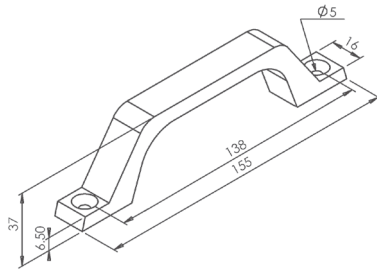
**Aplicación**

Para todo tipo de puertas y paneles.

**Application**

For any type of door or panel.

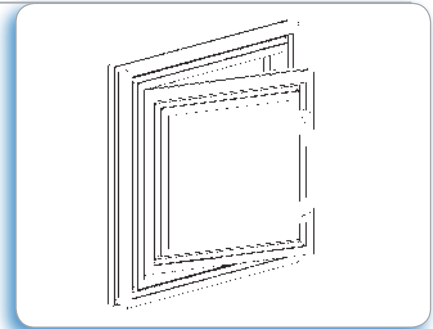
**Tirador** Aluminio, anodizado natural  
**Bow handle** Anodized aluminium



5624



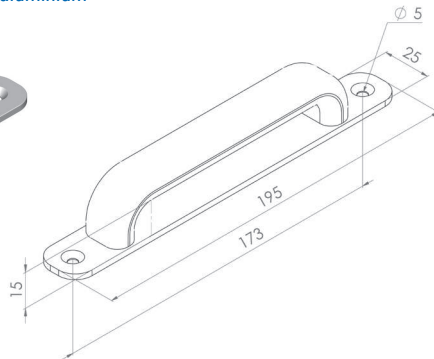
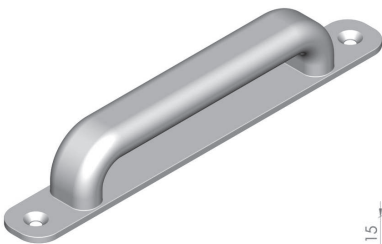
0,068



**Aplicación**  
Para todo tipo de puertas y paneles.

**Application**  
For any type of door or panel.

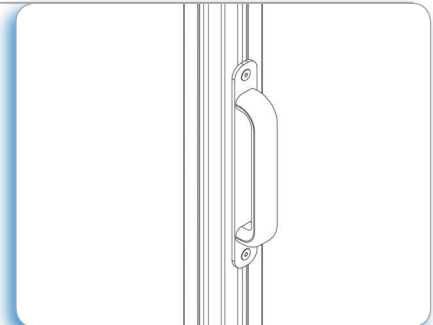
**Tirador con soporte** Aluminio anodizado  
**Handle with support** Anodized aluminium



5628



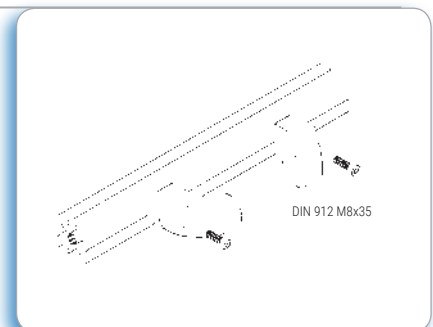
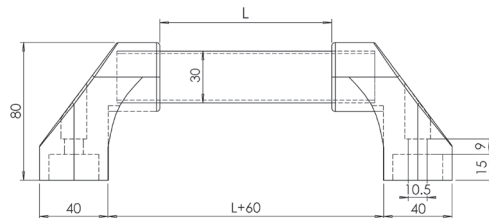
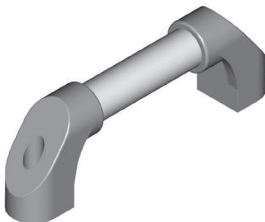
0,166



**Aplicación**  
Tirador para sobreponer en todo tipo de puertas y paneles.

**Application**  
Handle with support surface mounted for any type of door or panel.

**Asa tubular** Poliamida reforzada, aluminio anodizado  
**Tubular handle** Fibreglass reinforced nylon, anodized aluminium



**SUJECCIÓN ASA TUBULAR / HOLDER**



5625



0,099

**TUBO Ø 30X2 / TUBE Ø 30X2**



5093



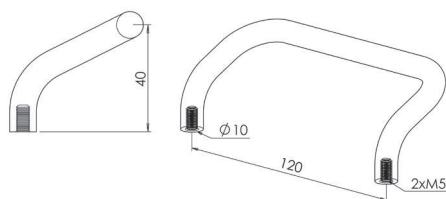
0,47

**Aplicación**  
Para construir asas de cualquier longitud.

**Application**  
To build up handles of different sizes.



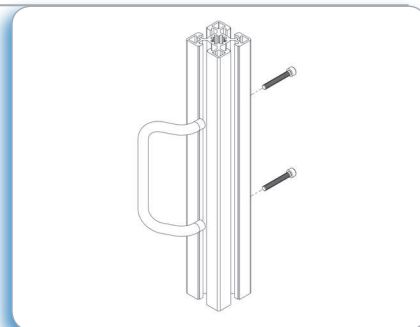
**Asa** Aluminio color negro  
**Handle** Aluminium black



5627



0,135



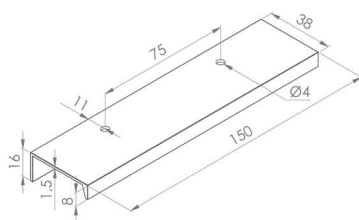
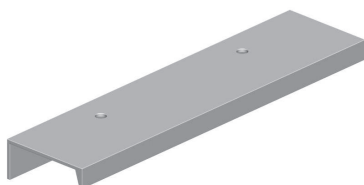
**Aplicación**

Permite un mayor espacio para colocación de las manos durante la apertura o cierre de la puerta. Debe ser montada roscando un tornillo por detrás.

**Application**

Allows a wider space for hands positioning while opening or closing doors. Handle must be rear mounted.

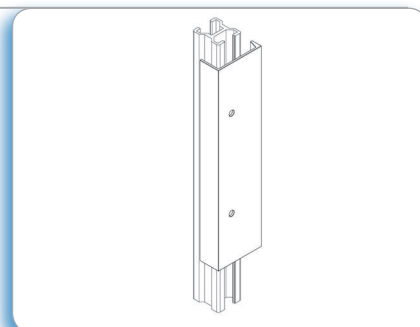
**Tirador perfil marco 20x22,5** Aluminio anodizado  
**Handle frame profile 20x22,5** Anodized aluminium



5629



0,036



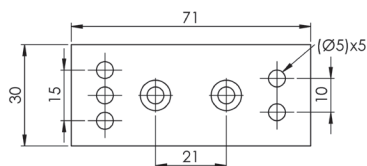
**Aplicación**

Tirador para sobreponer en el perfil marco 20x22,5 mm.

**Application**

Handle surface mounted for frame profile 20x22,5 mm.

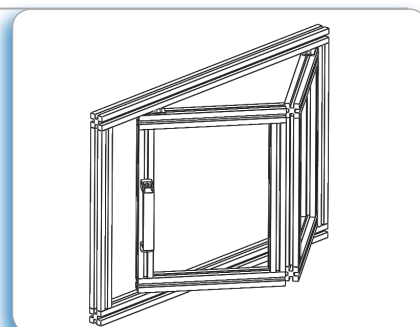
**Pletina pivotante puerta plegable** Inyección de zinc  
**Folding door pivot plate** Die-cast zinc



56333



0,15



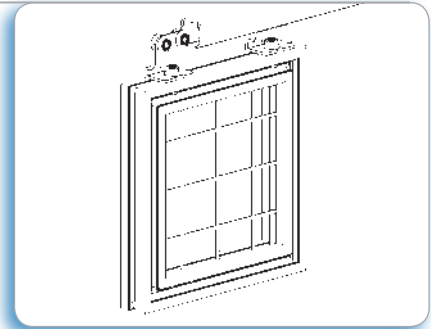
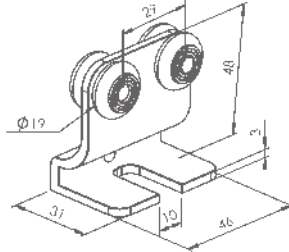
**Aplicación**

Conjunto pletina más pivote para el montaje de puertas plegables. Tornillería incluida: 2 x DIN 7991 M5x10 2 tuercas 52075

**Application**

Pivot plate for the construction of folding doors. Screws and nuts included: 2 x DIN 7991 M5x10 2 nuts 52075

**Roldana para puerta corredera** Acero zincado / acero inoxidable  
**Sliding door suspensory roller** Zinc plated steel / stainless steel



**Aplicación**

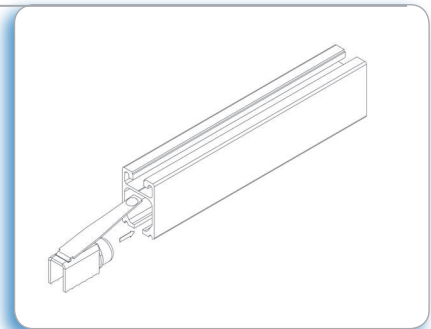
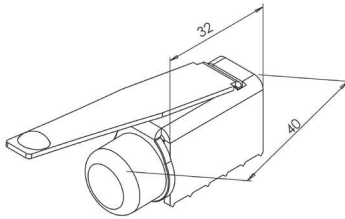
Para puertas correderas. La roldana se fija a la puerta mediante el uso de un tornillo cabeza de martillo y desliza sobre el perfil guía.

**Application**

For the assembly of sliding doors. Once fixed to the door frame with a T-head bolt, suspensory roller slides across the aluminium guiding profile.

5641	0,100
5641I - Inox.	0,100

**Tope roldana perfil corredera** Acero zincado  
**Sliding door stopper** Zinc plated steel



**Aplicación**

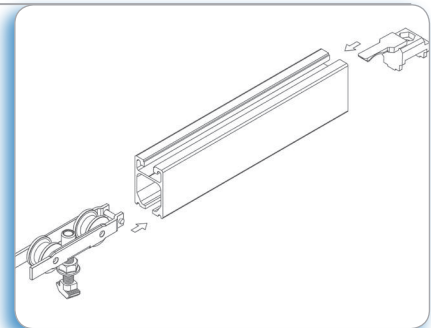
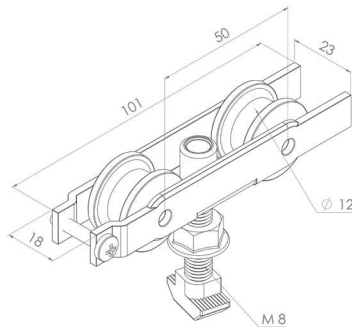
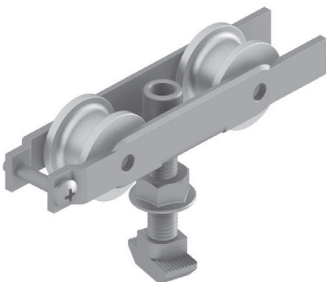
Para evitar que la puerta corredera se salga del perfil. Ajustar el retenedor mediante el tornillo.

**Application**

To prevent sliding door falling from the profile. Stopper can be adjusted using the screw.

5640	0,042

**Carro para puerta corredera** Acero zincado / Nylon  
**Roller top track** Zinc plated steel / Nylon



**Aplicación**

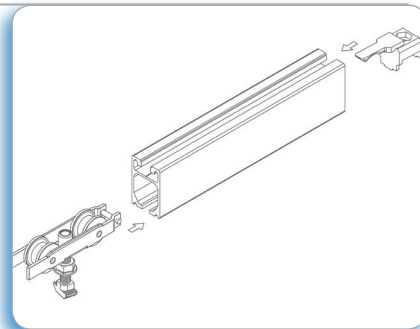
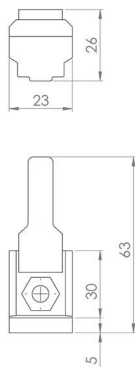
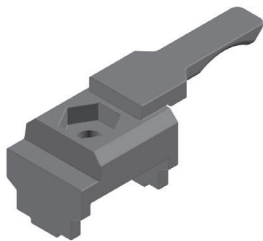
Para puertas correderas. El carro se fija a la puerta mediante el uso de un tornillo y se desliza sobre el perfil guía.

**Application**

For the assembly of sliding doors. Once fixed to the door frame with a bolt, top track slides across the aluminium guiding profile.

5644	0,1

**Freno para carro puerta corredera** Poliamida reforzada  
**Stop roller top track** Fibreglass reinforced nylon



**Aplicación**  
 Para evitar que la puerta corredera se salga del perfil.

**Application**  
 To prevent sliding door falling from the profile.

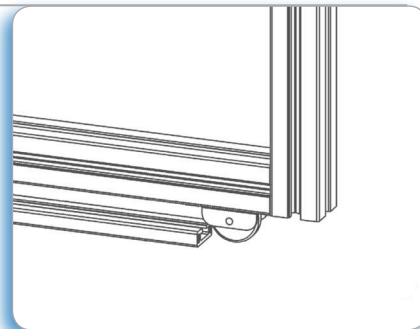
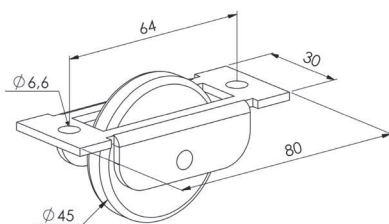


5645



0,015

**Rodabloc 45** Acero zincado  
**Roller 45** Zinc plated steel



**Aplicación**  
 Para la construcción de puertas correderas.  
 Rueda de nylon 45 con rodamiento 608 insertado.

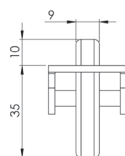
**Application**  
 For the assembly of sliding profiles.  
 Nylon wheel with roller 608.



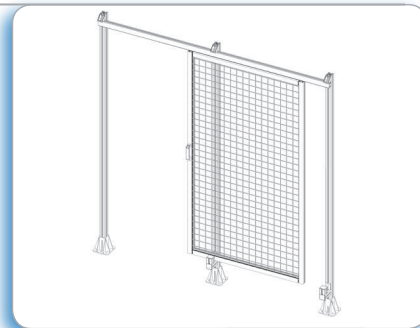
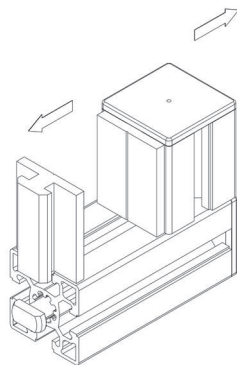
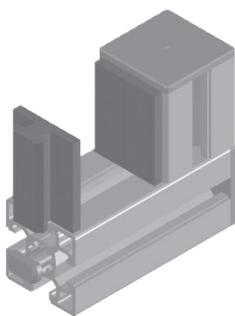
5643



0,081



**Guia inferior puerta corredera**  
**Sliding door guide**



**Aplicación**  
 Para guiar la puerta corredera durante su apertura o cierre evitando oscilamientos.

**Application**  
 To prevent sliding door from moving during opening or closure.



5642



0,442

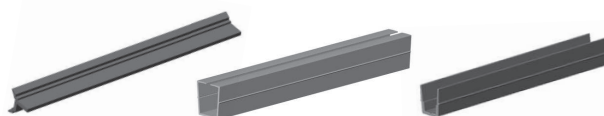


# PERFILES PLÁSTICOS

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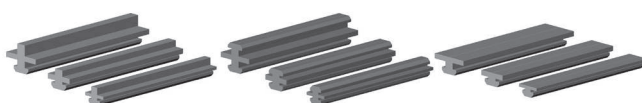
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página/page 112



página/page 113

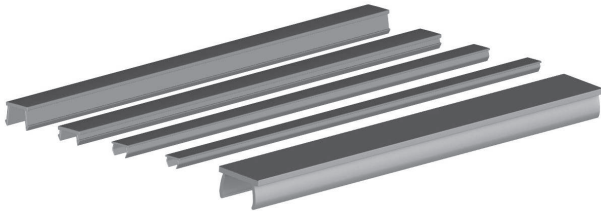


página/page 114

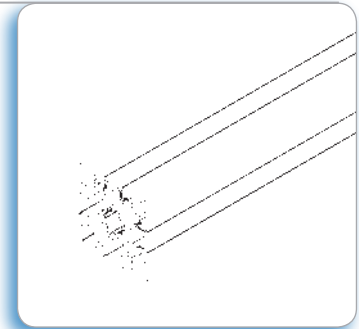


# PLASTIC PROFILES

**Tapacanal rígido** Material termoplástico / Aluminio  
**Groove cover profile** Plastic / Aluminium



Barcode	L	Color / material	Profile	Kg
50951	6 m	Aluminio	40/45/50/60/80/90	0,1
5101	3 m	Negro/Black	40/45/50/60/80/90	0,06
51011	3 m	Gris/Grey	40/45/50/60/80/90	0,06
51012	3 m	Azul/Blue	40/45/50/60/80/90	0,6
51013	3 m	Rojo/Red	40/45/50/60/80/90	0,6
51014	3 m	Amarillo/Yellow	40/45/50/60/80/90	0,6
51015	3 m	Blanco/White	40/45/50/60/80/90	0,6
510135	3 m	Negro/Black	35	0,04
510130	3 m	Negro/Black	30	0,02
510125	3 m	Negro/Black	25	0,02



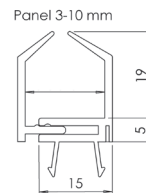
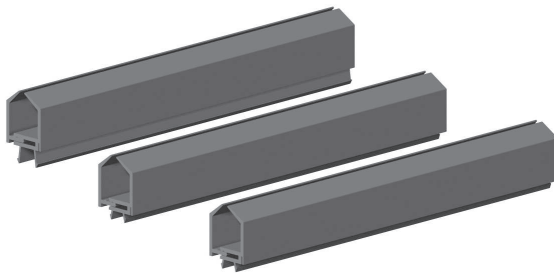
**Aplicación**

Para el recubrimiento de los canales de los perfiles de aluminio. Se recomienda su uso para evitar la acumulación de partículas o para mantener los cables en los canales del perfil.

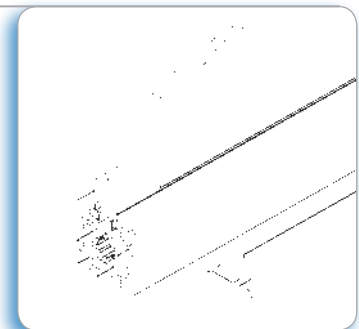
**Application**

For the covering of profile slots. Recommended to avoid accumulation of particles or to keep cables inside profile slots.

**Juego junquillo de panelar** Material termoplástico, doble dureza. Color negro  
**Clamping profile set** Double hardness plastic, black



Barcode	L	Profile	Kg
5106	3 m	40/45/60/80/90	0,18
510635	3 m	35	0,17
510630	3 m	30	0,15



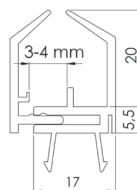
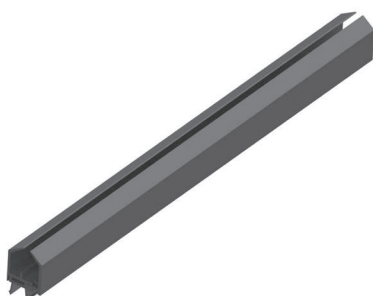
**Aplicación**

Permite la fijación de paneles en las estructuras de aluminio con posterioridad a que éstas hayan sido montadas. Indicado para paneles de espesor: 4-8 mm.

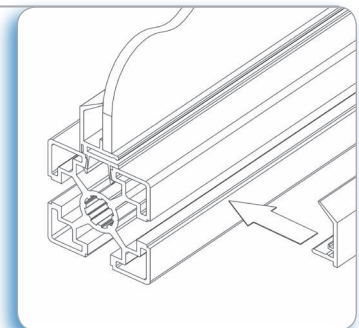
**Application**

Enables the fixing of panels subsequent to the assembly of the aluminium structure.

**Juego junquillo de panelar con pestaña** Material termoplástico, doble dureza.  
**Clamping profile set with stud** Double hardness plastic, black



Barcode	L	Profile	Kg
5106P	3 m	40/45/60/80/90	0,18



**Aplicación**

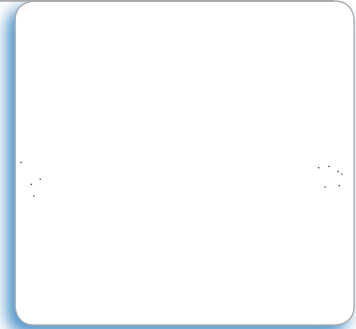
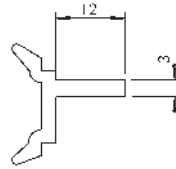
Permite la fijación de paneles en las estructuras de aluminio con posterioridad a que estas hayan sido montadas. Indicado para paneles de espesor: 3-4 mm.

**Application**

Enables the fixing of panels subsequent to the assembly of the aluminium structure.



**Tirasoporte** Material termoplástico. Color negro  
**Shelf support profile** Plastic, black



**Aplicación**

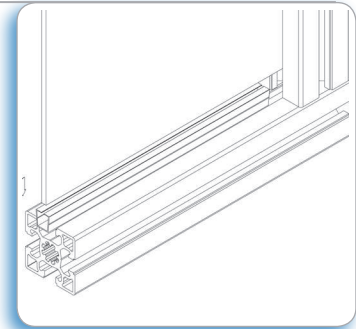
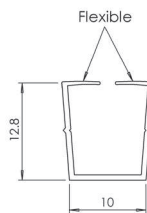
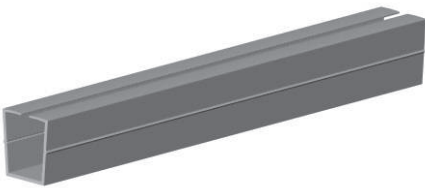
Permite la colocación de baldas. Introducir el tirasoporte en el canal del perfil y apoyar la balda.

**Application**

For fixing shelves to profiles. Introduce the shelf support profile in the aluminium profile slot and place the shelf.

5114	3 m	30	0,06

**Perfil para ribetear, doble dureza** PVC/goma  
**Double hardness edge profile** PVC/rubber



**Aplicación**

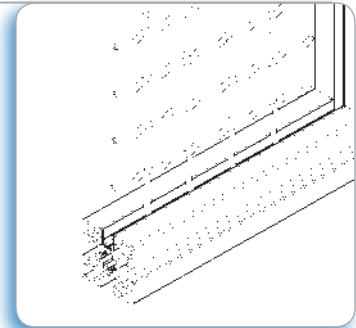
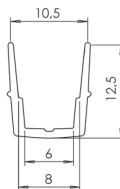
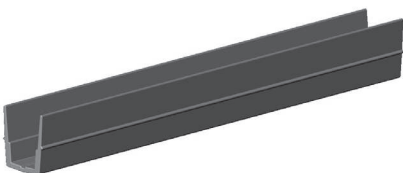
Permite la fijación de paneles de distinto espesor directamente en el canal del perfil. Válido para paneles de espesor desde 1,5 - 6mm. Los labios de goma flexible hacen posible su uso con paneles de distinto espesor.

**Application**

For covering the profile groove and holding panel elements. The flexible rubber lips make possible the use of different panel thickness.

			Col.	Panel	
51102	3 m	35/40/45/50/60/80/90	Negro/Black	e = 1,5 - 6 mm	0,045
511021	3 m	35/40/45/50/60/80/90	Gris/Grey	e = 1,5 - 6 mm	0,045

**Perfil reductor: 8-6 mm** Material termoplástico. Color negro  
**Slot reducer profile: 8-6 mm** Plastic, black



**Aplicación**

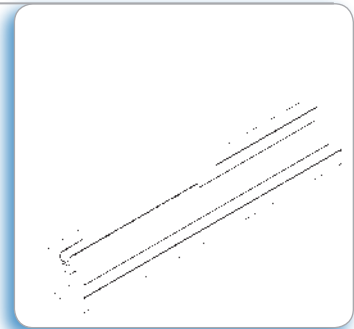
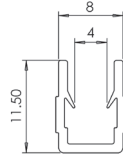
Permite la fijación de rejillas de protección y paneles de espesor 6 y 8 mm en el canal del perfil.

**Application**

For fixing protection grills and panels inside the profile slot. Panel thickness: 6-8 mm.

5110	3 m	35/40/45/50/60/80/90	0,06

**Perfil reductor: 8-4 mm** Material termoplástico. Color negro  
**Slot reducer profile: 8-4 mm** Plastic, black



51101	3 m	30	0,06

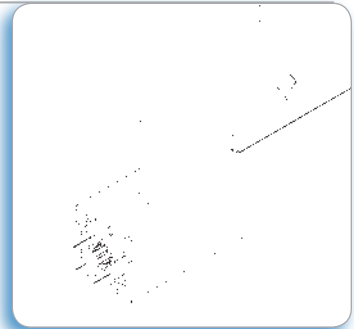
**Aplicación**

Permite la fijación de rejillas de protección y paneles en el canal del perfil. De uso para la fijación de rejillas de protección o paneles de espesor: 4 mm.

**Application**

For fixing protection grills and panels inside the profile slot. Panel thickness: 4 mm.

**Goma en cuña, ajuste paneles** Color negro  
**Plug-in seal** Rubber, black



	Canal	Panel			Canal	Panel	
51036	10	e = 8 mm	0,1	51039	8	e = 6 mm	0,1
5103	10	e = 6 mm	0,1	51031	8	e = 5 mm	0,1
51037	10	e = 4 - 5 mm	0,1	9403/51040	8	e = 3 - 4 mm	0,1
51033	10	e = 3 mm	0,1	51034	8	e = 1 - 2 mm	0,1
51038	10	e = 1 - 2 mm	0,1	51030	6	e = 3 mm	0,1

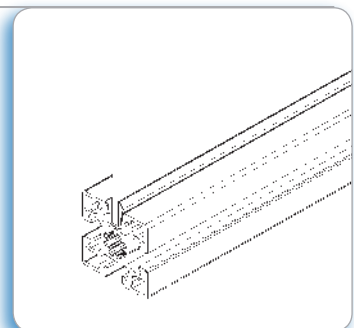
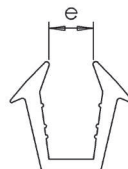
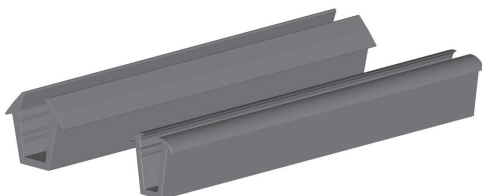
**Aplicación**

Permite la fijación de paneles directamente en el canal del perfil. De uso en montajes que requieran estanqueidad.

**Application**

For Assembling panels inside the profile slot. To be used in constructions that require imperviousness.

**Goma en U, ajuste paneles** Color negro  
**U-seal** Rubber, black



		Panel	
5102	40/45/50/60/80/90	e = 4 - 6 mm	0,13
510230	30	e = 3 - 4 mm	0,1

**Aplicación**

Permite la fijación de paneles directamente en el canal del perfil. De uso en montajes que requieran estanqueidad en ambos lados.

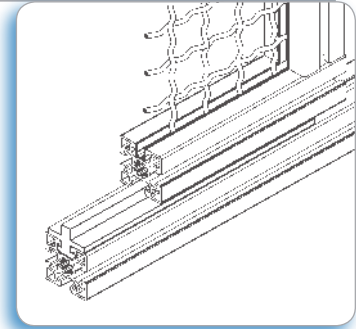
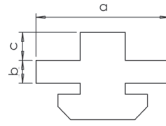
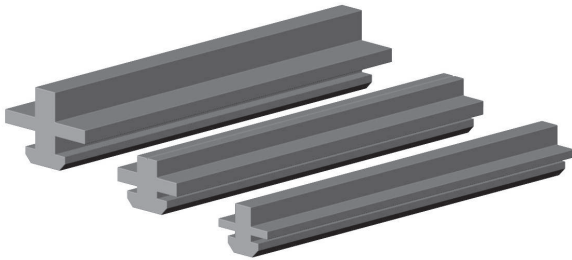
**Application**

For Assembling panels inside the profile slot. To be used in constructions that require imperviousness from both sides.





**Perfil deslizante guía** Polietileno, negro  
**Guiding slide profile** Polyethylen, black



**Aplicación**

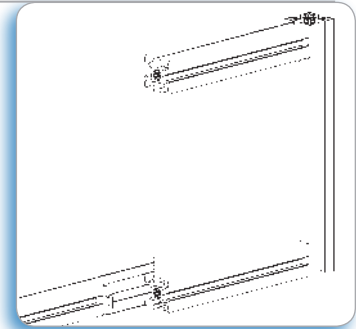
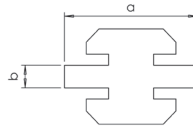
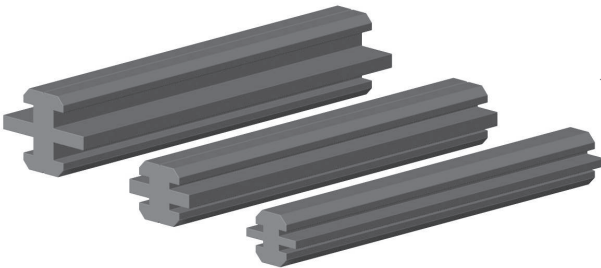
Para el guiado de puertas correderas y de otras construcciones que requieran desplazamientos longitudinales.

**Application**

As guiding profile, for linear sliding of doors and other constructions.

				a	b	c
5113	3 m	40/45/50/60/80/90	0,44	39	5	10,5
511335	3 m	35	0,30	29	5	6
511330	3 m	30	0,20	24	3	7

**Perfil deslizante doble** Polietileno, negro  
**Double slide profile** Polyethylen, black



**Aplicación**

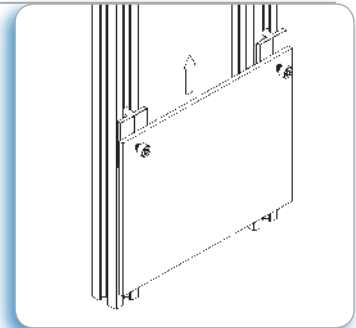
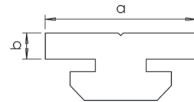
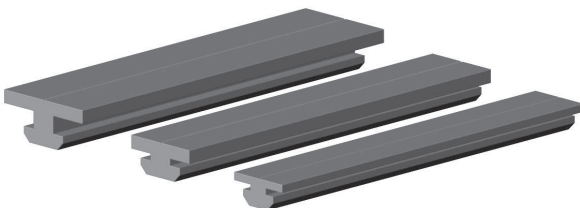
Para el guiado de puertas correderas y de otras construcciones que requieran desplazamientos longitudinales.

**Application**

Enables linear sliding of profiles . It can be used for leverage doors and other structures.

				a	b
5108	3 m	40/45/50/60/80/90	0,50	39	5
510835	3 m	35	0,38	29	5
510830	3 m	30	0,24	24	3

**Perfil deslizante** Polietileno, negro  
**Slide profile** Polyethylen, black



**Aplicación**

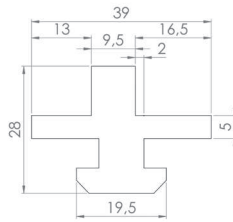
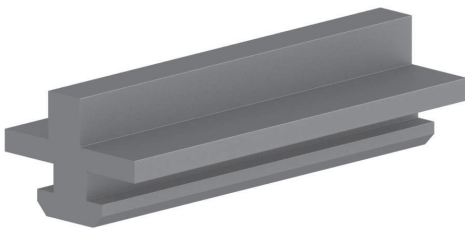
Permite la construcción de elementos de corredera; de uso en puertas levadizas, bandejas móviles, etc.

**Application**

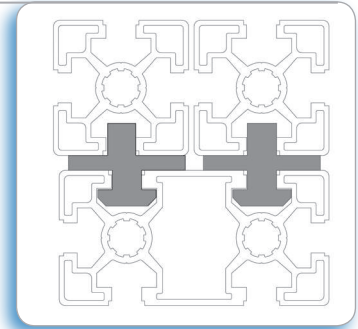
Enables linear sliding of structures. It can be used for leverage doors, trays,...

				a	b
5107	3 m	40/45/50/60/80/90	0,35	39	5
510735	3 m	35	0,26	29	5
510730	3 m	30	0,16	24	3

**Perfil deslizante guía desplazado** Polietileno, negro  
**Guiding slide displaced profile** Polyethylen, black



19 mm



**Aplicación**

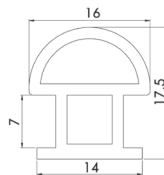
Para el guiado de puertas correderas y de otras construcciones que requieran desplazamientos longitudinales.

**Application**

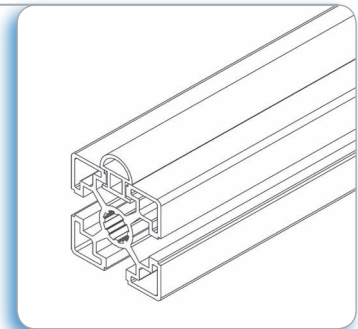
As guiding profile, for linear sliding of doors and other constructions.



**Goma cierre puertas** PVC. negro  
**Closing door rubber** Rubber, black



19 mm



**Aplicación**

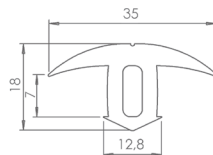
Permite la estanqueidad de puertas y marcos.

**Application**

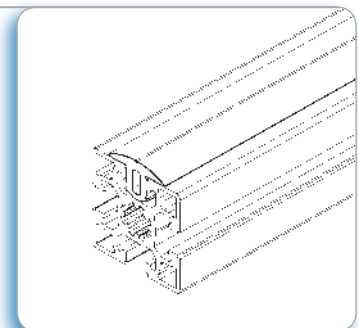
Allows sealing doors and frames.



**Perfil de estanqueidad o tope** PVC. Color negro  
**Protection & end profile** Rubber, black



45



**Aplicación**

Permite apoyar sobre los perfiles, tableros o cristales evitando que éstos se rayen o deterioren. También sirve como tope entre perfiles.

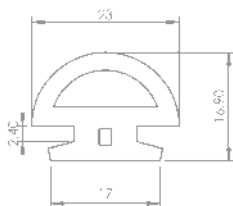
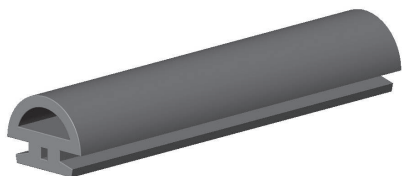
**Application**

Offers protection against surface damage of the supported panel or glass. It can also be used as a protective profile.

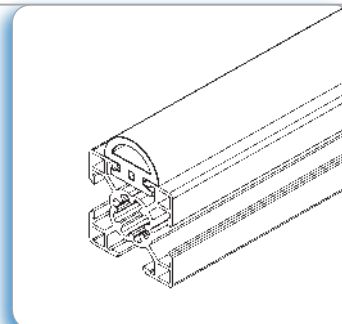




**Perfil de estanqueidad o tope** PVC. Color negro  
**Protection & end profile** Rubber, black



35



**Aplicación**  
 Permite la estanqueidad de puertas y marcos.

**Application**  
 Offers protection against surface damage of the supported panel or glass. It can also be used as a protective profile.



5112

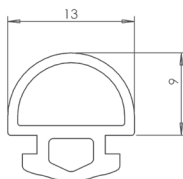


35

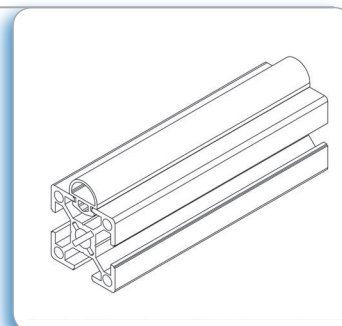


0,28

**Perfil de estanqueidad o tope** PVC  
**Protection & end profile** Rubber black



30



**Aplicación**  
 Permite la estanqueidad de puertas y marcos.

**Application**  
 Allows sealing doors and frames.

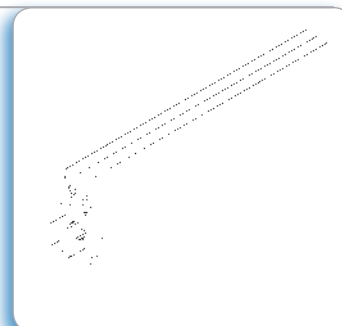
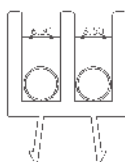


5115



0,25

**Perfil redondo corredera** Material termoplástico, color negro  
**Sliding door round profile** Plastic, black



**Aplicación**  
 Como suplemento en la base del perfil corredera.

**Application**  
 As supplement inside sliding door profile.



51041

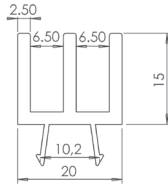
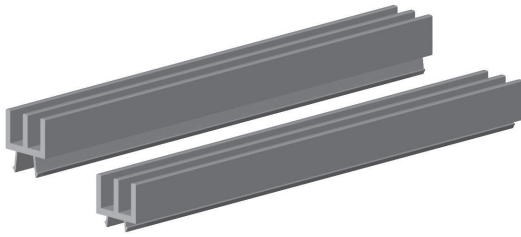


3 m

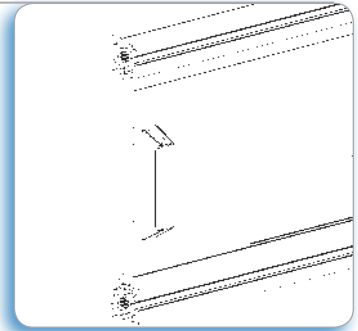


0,06

**Perfil corredera doble** Material termoplástico. Color negro  
**Sliding double door profile** Plastic, black



19 mm  
35

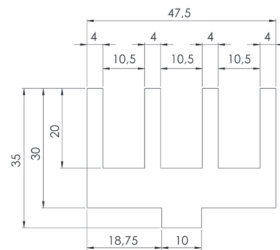
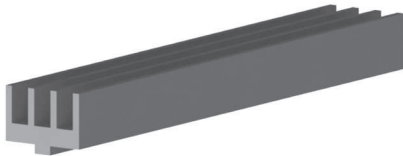


**Aplicación**  
Permite el montaje de puertas correderas.  
Espesor máximo de paneles: 6 mm.

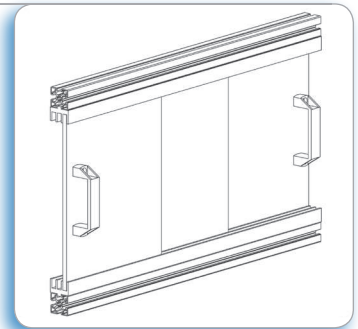
**Application**  
Suitable for sliding doors. Maximum thickness of panels: 6 mm.

5104	3 m	40/45/50//60/80/90	0,18
510435	3 m	35	0,17

**Perfil corredera triple** Polietileno, Color negro  
**Sliding door profile** Polyethylene, black



19 mm

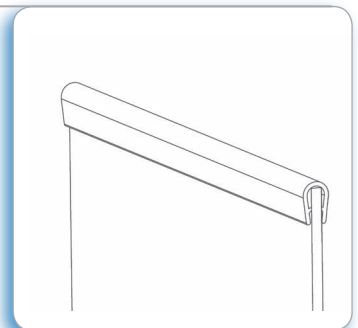
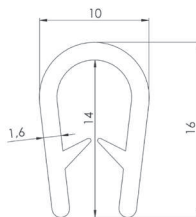
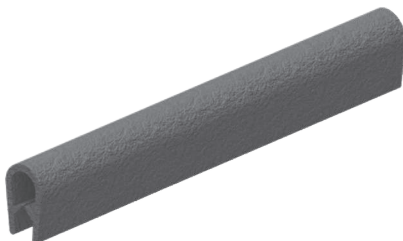


**Aplicación**  
Permite el montaje de tres puertas correderas en paralelo.  
Espesor máximo de paneles: 10 mm.

**Application**  
Suitable for three parallel sliding doors. Maximum thickness of panels: 10 mm.

51042	3 m	40/45/50//60/80/90	0,85

**Goma anticorte** Negro  
**Anti cutting rubber** Black



**Aplicación**  
Para revestir el borde de los paneles y rejillas evitando posibles cortes.

**Application**  
To recover the border of panels and grids preventing from cutting.

5117	0,15

# PERFILES DE ALUMINIO

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Serie, canal 6 mm

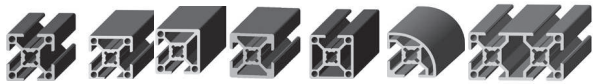
Serie, 6 mm slot



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Serie, canal 8 mm

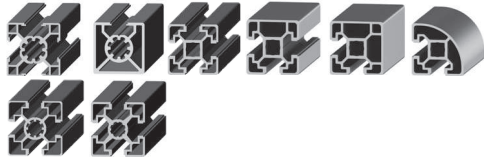
Serie, 8 mm slot



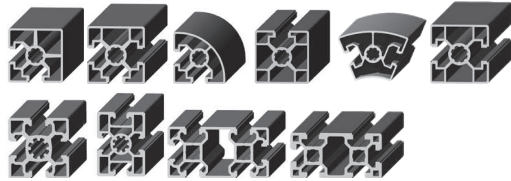
página/page 120

Serie, canal 10 mm

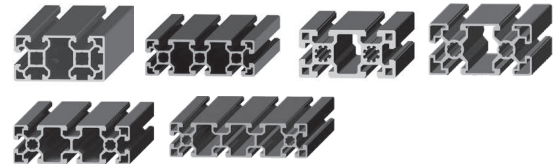
Serie, 10 mm slot



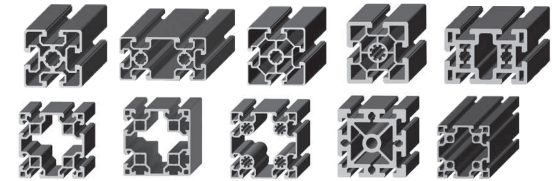
página/page 121



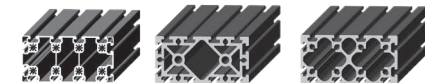
página/page 122



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Series especiales

Special series

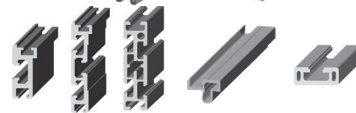
página/page 125



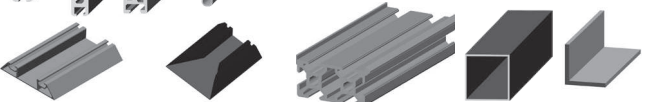
página/page 126



página/page 127



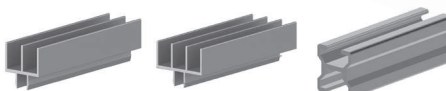
página/page 128-129



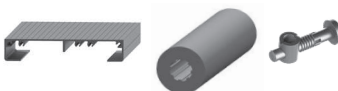
página/page 130



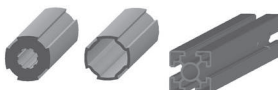
página/page 131-132



página/page 132-133



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# ALUMINIUM PROFILES



**Datos técnicos** Aluminio anodizado color natural

**Technical data** Aluminium natural anodized

Longitud estándar Standard length	6 m.	Límite elástico Tensile strength	200 N/mm <sup>2</sup>
Aleación Alloy	Al Mg Si 0,5 F25 (6060/6063)	Módulo de elasticidad transversal Elasticity module E	aprox. 70000 N/mm <sup>2</sup>
Densidad Density	2,7 gr/cm <sup>3</sup>	Dureza Brinell Hardness	75 HB
Espesor anodizado Anod. layer thickness	15 µm	Coefficiente de dilatación Coefficient of dilation	23,8 · 10 <sup>-6</sup> · K <sup>-1</sup>
Dureza anodizado Anod. layer hardness	250-350 HV	Punto de tensión Ductile yield	A5 > 10% - A10 > 8%

**Cálculo de la flexión del perfil**  
**Determination of profile deflection**

**Descripción**

*f* = flexión (m)  
**P** = Carga (N)  
**L** = Longitud perfil (m)  
**E** = Módulo de elasticidad  
**E<sub>AL</sub>** = 7 · 10<sup>8</sup> N/dm<sup>2</sup>  
**I** = Momento inercia (cm<sup>4</sup>)

**Description**

*f* = deflection (m)  
**P** = Load (N)  
**L** = Free profile length (m)  
**E** = Modulus of elasticity  
**E<sub>AL</sub>** = 7 · 10<sup>8</sup> N/dm<sup>2</sup>  
**I** = Momet of inertia (cm<sup>4</sup>)

**Carga** Load

**Fórmula** Formula

	$f_{max} = \frac{PL^3}{3EI}$
	$f_{max} = F_1 + F_2 + F_3 + \dots$
	$f_{max} = \frac{PL^3}{8EI}$
	$f_{max} = \frac{PL^3}{8EI} + \frac{PL^4}{3EI}$
	$f_{max} = \frac{P(d_1d_2)^2}{3LEI}$
	$f_{max} = \frac{PL^3}{48EI}$
	$f_{max} = \frac{PdL^2}{8EI}$
	$f_{max} = \frac{P(d_1d_2)^3}{3EI(d_2+3d_1)^2}$
	$f_{max} = \frac{PL^3}{192EI}$
	$f_{max} = \frac{PL^3}{384EI}$

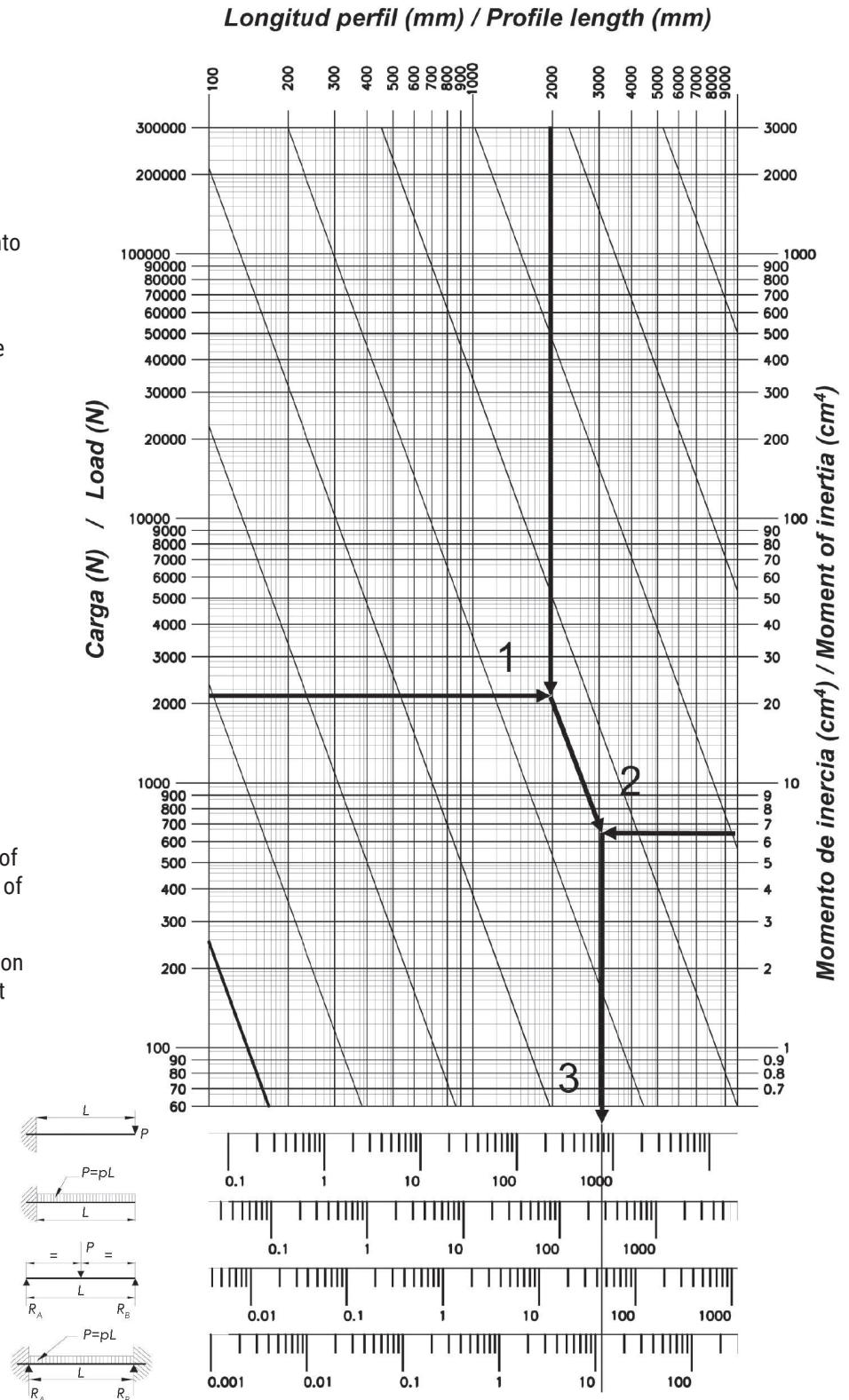
## Cálculo de la flexión del perfil Determination of profile deflection

### Cómo calcular la flexión:

1. Determinación del punto de intersección entre la carga y la longitud del perfil.
2. Cruce entre la coordenada del momento de inercia del perfil seleccionado con el desplazamiento en diagonal del punto 1.
3. Determinación de la flexión realizando una línea vertical desde el punto dos hasta la distribución de cargas seleccionada.

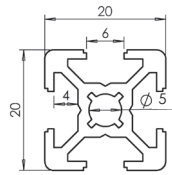
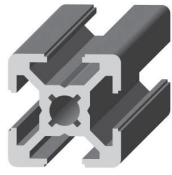
### Calculating deflection:

1. Determination of intersection point between load and profile length.
2. Crossing between the diagonal of point 1 with the moment of inertia of selected profile coordinate.
3. Determination of profile deflection extending a vertical line from point 2 to the selected load distribution formula.



**Serie, canal 6 mm Serie, 6 mm slot**

**Perfil básico 20x20 Basic profile 20x20**

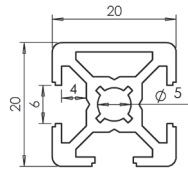
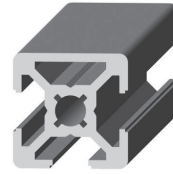


lx cm4	ly cm4	Wx cm3	Wy cm3
0,66	0,66	0,66	0,66

5049

0,44

**Perfil básico 20x20 3S Basic profile 20x20 3S**

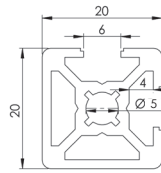
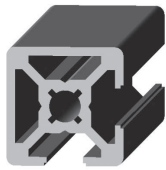


lx cm4	ly cm4	Wx cm3	Wy cm3
0,66	0,74	0,66	0,74

5048

0,46

**Perfil básico 20x20 2S 90° Basic profile 20x20 2S 90°**

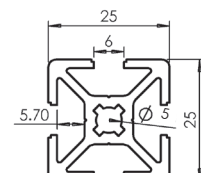


lx cm4	ly cm4	Wx cm3	Wy cm3
0,66	0,66	0,66	0,66

50492

0,5

**Perfil básico 25x25 Basic profile 25x25**

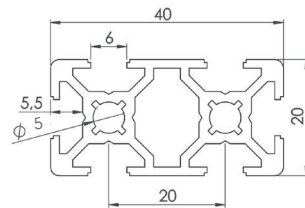
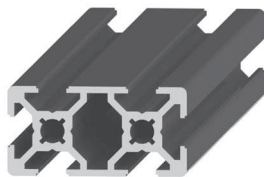


lx cm4	ly cm4	Wx cm3	Wy cm3
1,6	1,6	1,28	1,28

5011

0,7

**Perfil básico 20x40 Basic profile 20x40**



lx cm4	ly cm4	Wx cm3	Wy cm3
1,2	4,6	1,4	2,5

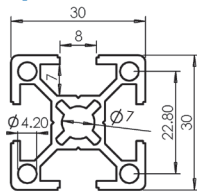
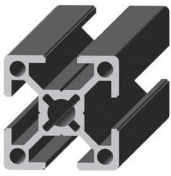
50491

0,8



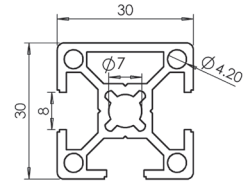
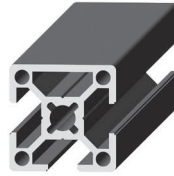
**Serie, canal 8 mm Serie, 8 mm slot**

**Perfil básico 30x30 Basic profile 30x30**



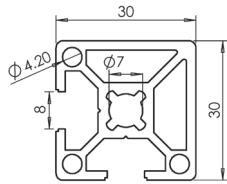
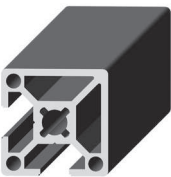
5010	0,8	lx cm4	ly cm4	Wx cm3	Wy cm3
		2,7	2,7	1,8	1,8

**Perfil 30x30 3S Profile 30x30 3S**



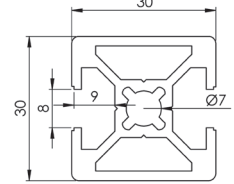
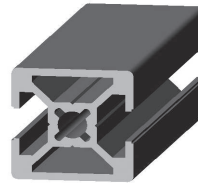
5029	0,9	lx cm4	ly cm4	Wx cm3	Wy cm3
		2,7	3,0	1,8	2,0

**Perfil 30x30 2S 90° Profile 30x30 2S 90°**



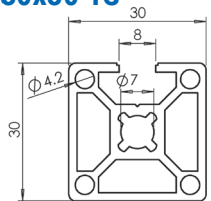
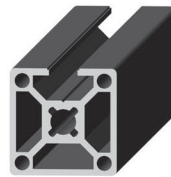
5028	0,9	lx cm4	ly cm4	Wx cm3	Wy cm3
		3,0	3,0	2,0	2,0

**Perfil 30x30 2S 180° Profile 30x30 2S 180°**



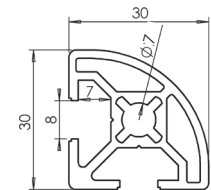
5025	1	lx cm4	ly cm4	Wx cm3	Wy cm3
		3,3	3,9	2,2	2,6

**Perfil 30x30 1S Profile 30x30 1S**



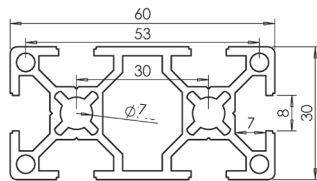
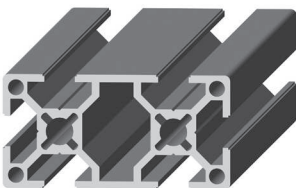
5027	0,9	lx cm4	ly cm4	Wx cm3	Wy cm3
		3,0	3,2	2,0	2,1

**Perfil MC-30 MC-30 profile**



5017	0,8	lx cm4	ly cm4	Wx cm3	Wy cm3
		2,3	2,3	1,4	1,4

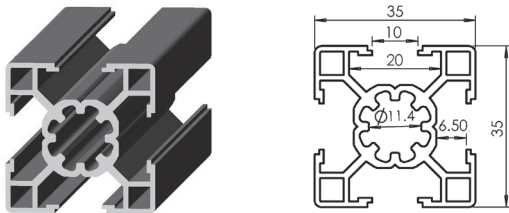
**Perfil básico 30x60 Basic profile 30x60**



5018	1,5	lx cm4	ly cm4	Wx cm3	Wy cm3
		19,0	5,1	6,3	3,4

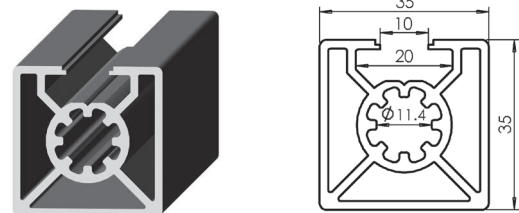
**Serie, canal 10 mm Serie, 10 mm slot**

**Perfil básico 35x35 Basic profile 35x35**



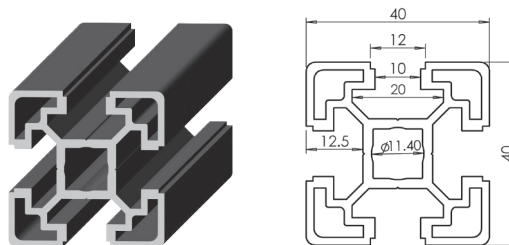
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
5008	0,9	4,1	4,1	2,3	2,3

**Perfil 35x35 1S Profile 35x35 1S**



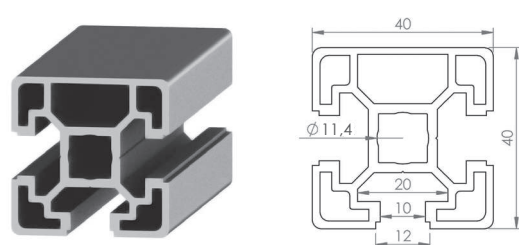
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
50081	1,2	5,3	5,7	3,0	3,2

**Perfil básico 40x40 Basic profile 40x40**



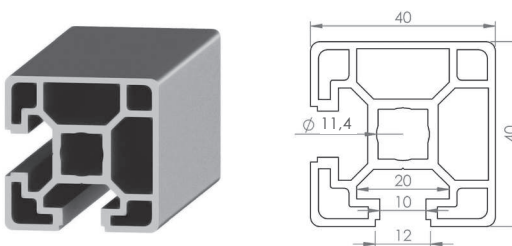
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
5009	1,5	9,0	9,0	4,5	4,5

**Perfil básico 40x40 3S Profile 40x40 3S**



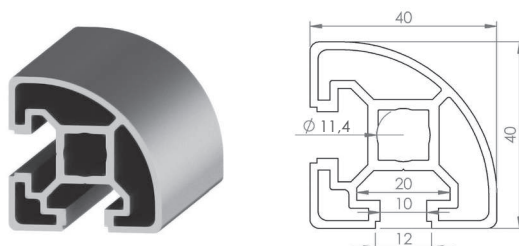
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
50093	1,5	9,0	9,0	4,5	4,5

**Perfil básico 40x40 2S 90° Profile 40x40 2S 90°**



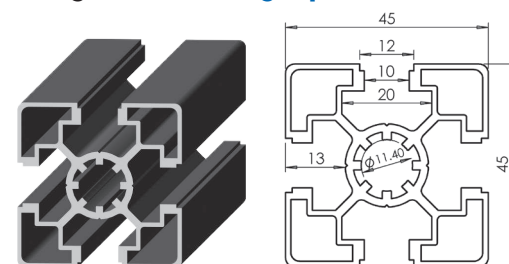
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
50092	1,5	9,0	9,0	4,5	4,5

**Perfil básico MC-40 Profile MC-40**



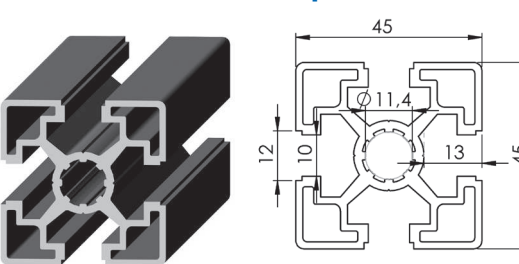
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
50091	1,4	9,0	9,0	4,5	4,5

**Perfil ligero 45x45 Light profile 45x45**



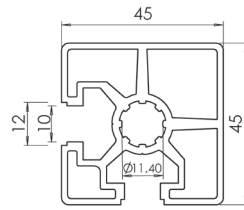
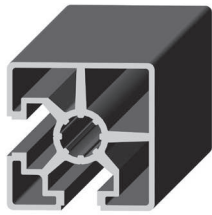
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
5001	1,4	10,0	10,0	4,4	4,4

**Perfil básico 45x45 Basic profile 45x45**



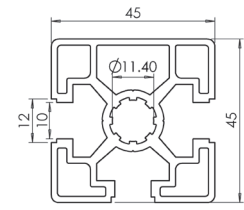
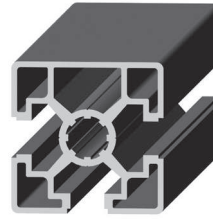
Barcode	kg	Ix cm4	Iy cm4	Wx cm3	Wy cm3
5021	1,7	12,0	12,0	5,3	5,3

**Perfil 45x45 2S 90° Profile 45x45 2S 90°**



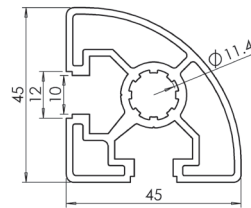
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5022	1,7	12,2	12,2	5,3	5,3

**Perfil 45x45 3S Profile 45x45 3S**



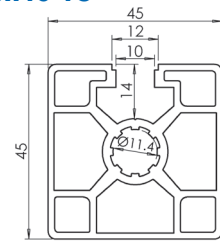
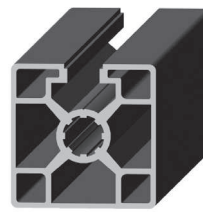
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5023	1,7	11,9	12,2	5,3	5,4

**Perfil MC-45 Profile MC-45**



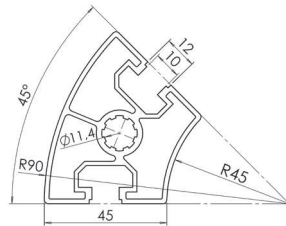
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5024	1,4	3,5	3,5	8,7	8,7

**Perfil 45x45 1S Profile 45x45 1S**



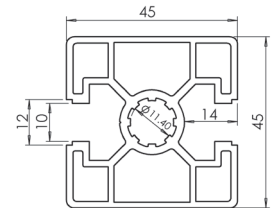
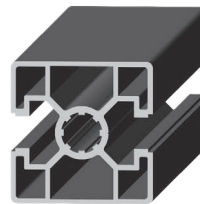
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5043	1,7	12,0	12,1	5,3	5,3

**Perfil 45x45° Profile 45x45°**



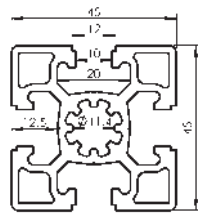
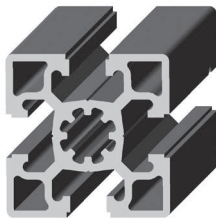
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5057	1,7	11,6	18,8	4,5	5,6

**Perfil 45x45 2S 180° Profile 45x45 2S 180°**



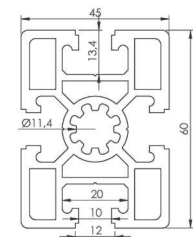
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5040	1,7	11,9	12,1	5,3	5,3

**Perfil pesado 45x45 Strong profile 45x45**



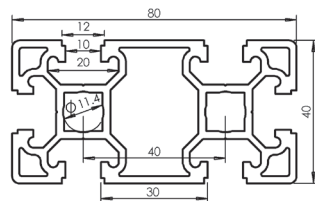
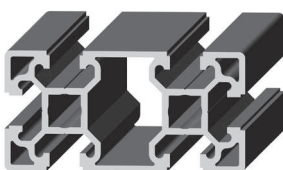
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5002	2,0	14,6	14,6	6,5	6,5

**Perfil básico 45x60 Basic profile 45x60**



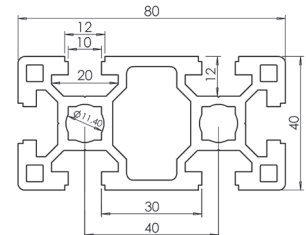
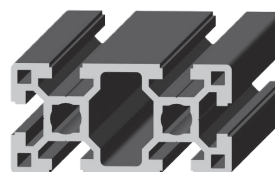
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5005	2,7	20,5	34,0	9,1	11,3

**Perfil básico 40x80 Basic profile 40x80**



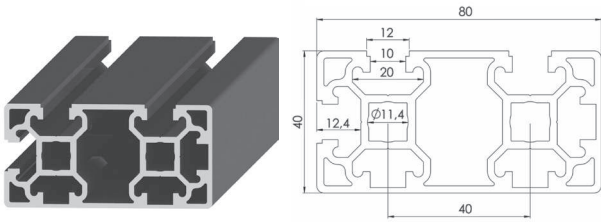
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5012	2,6	16,9	64,6	8,4	16,1

**Perfil pesado 40x80 Strong profile 40x80**



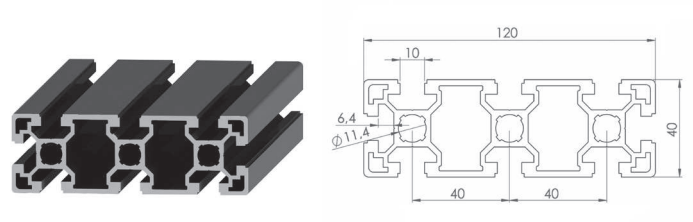
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5051	3,3	21,0	78,5	10,5	19,6

**Perfil básico 40x80 2S Basic profile 40x80 2S**



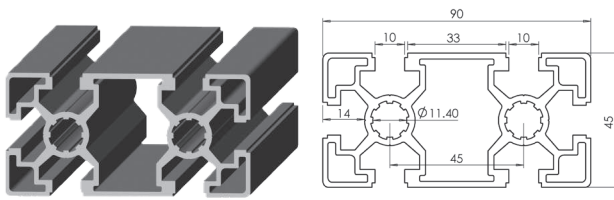
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
501290	2,8	18,3	68,9	9,1	17,3

**Perfil básico 40x120 Basic profile 40x120**



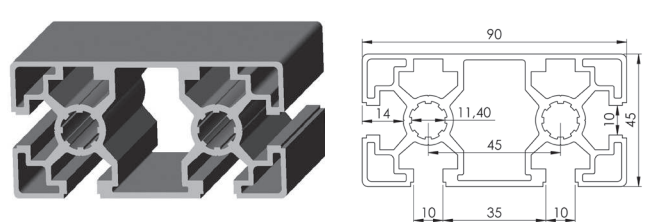
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5060	4,0	26,8	209,5	13,4	34,9

**Perfil ligero 45x90 Light profile 45x90**



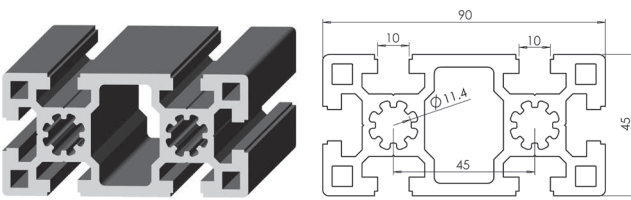
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5003	3,0	23,5	82,0	10,4	18,2

**Perfil 45x90 3S Profile 45x90 3S**



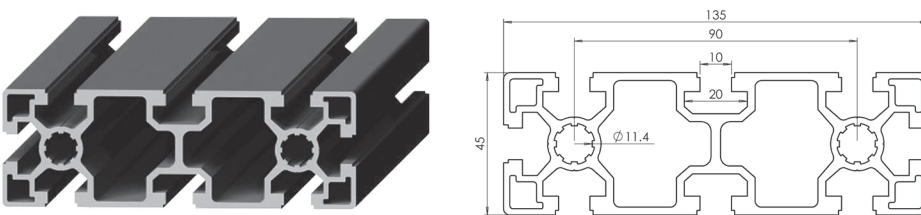
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
50031	3,1	23,5	82,0	10,4	18,2

**Perfil pesado 45x90 Strong Profile 45x90**



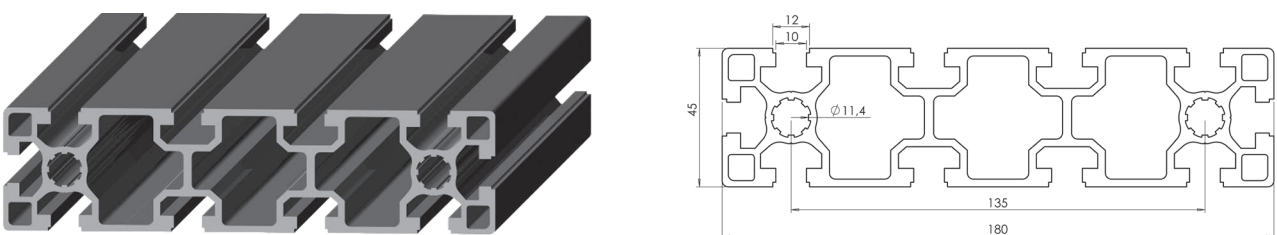
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5032	4,3	35,1	132,0	15,6	29,3

**Perfil 45x135 Profile 45x135**



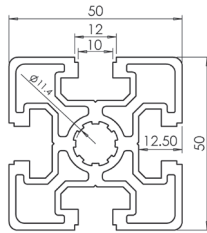
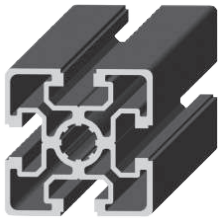
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5058	4,8	41,0	324,2	18,2	36,0

**Perfil 45x180 Profile 45x180**



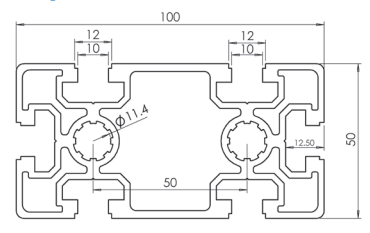
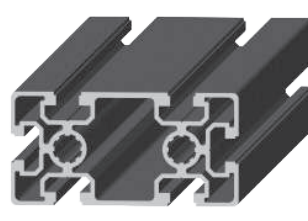
Barcode	kg	Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5056	6,3	55,6	740,5	24,7	82,3

**Perfil básico 50x50 Basic profile 50x50**



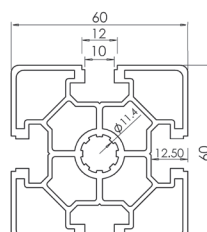
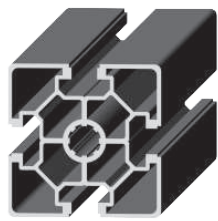
5053	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
2,3	19,7	19,7	7,9	7,9	

**Perfil básico 50x100 Basic profile 50x100**



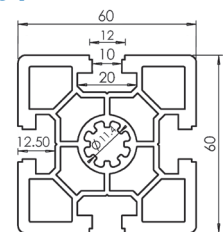
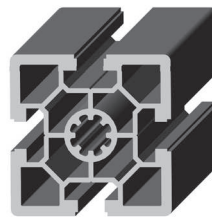
5054	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
4,0	39,8	152,6	16,0	30,5	

**Perfil ligero 60x60 Light profile 60x60**



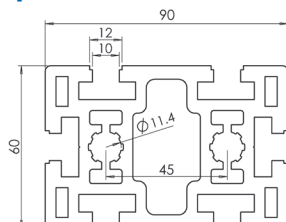
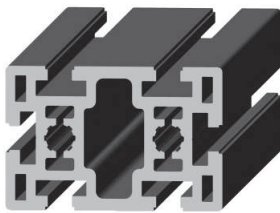
5006	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
2,5	29,0	29,0	9,6	9,6	

**Perfil pesado 60x60 Strong profile 60x60**



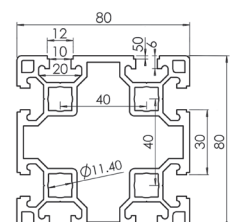
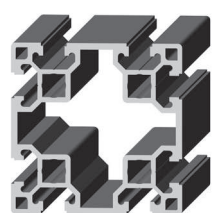
5013	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
3,6	49,6	49,6	16,5	16,5	

**Perfil básico 60x90 Basic profile 60x90**



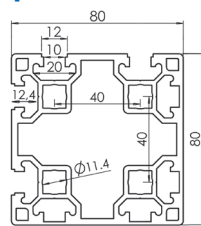
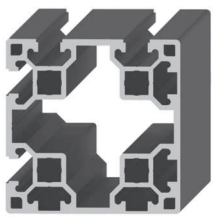
5044	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
6,7	89,6	204,5	29,8	45,4	

**Perfil básico 80x80 Basic profile 80x80**



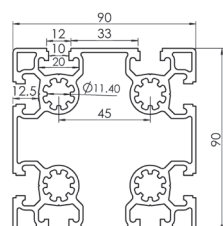
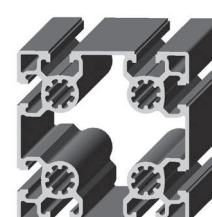
5014	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
4,5	124,0	124,0	31,0	31,0	

**Perfil básico 80x80 2S Basic profile 80x80 2S**



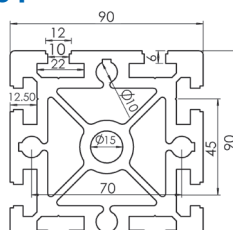
501490	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
4,6	125,1	125,1	31,1	31,1	

**Perfil ligero 90x90 Light profile 90x90**



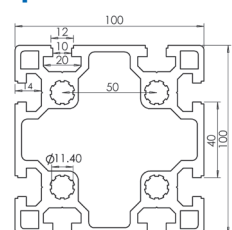
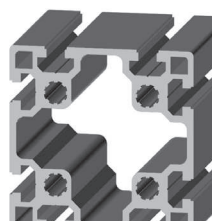
5004	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
5,1	175,1	175,1	38,9	38,9	

**Perfil pesado 90x90 Strong profile 90x90**



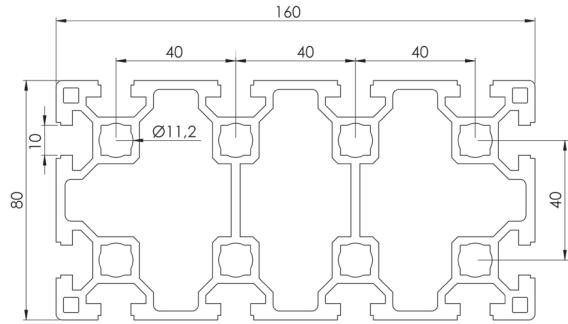
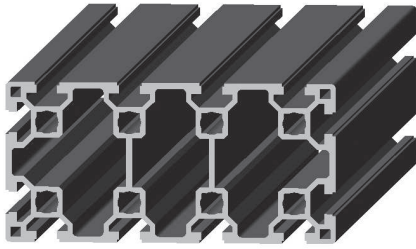
5015	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
10,0	303,1	303,1	67,3	67,3	

**Perfil básico 100x100 Basic profile 100x100**



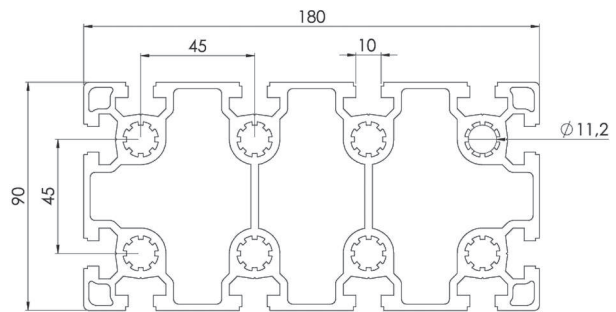
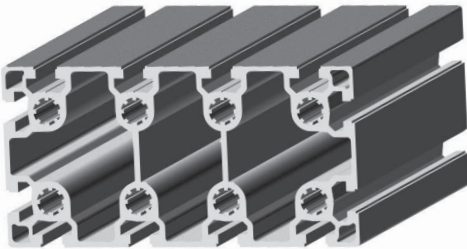
5055	kg	lx cm <sup>4</sup>	ly cm <sup>4</sup>	Wx cm <sup>3</sup>	Wy cm <sup>3</sup>
8,0	336,1	336,1	67,2	67,2	

**Perfil básico 80x160 Light profile 80x160**



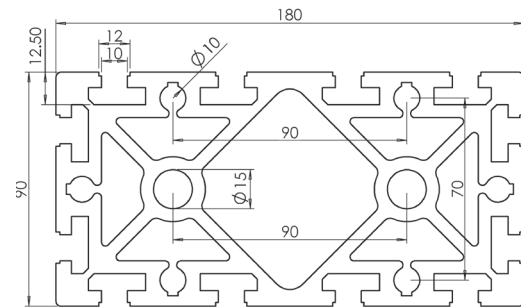
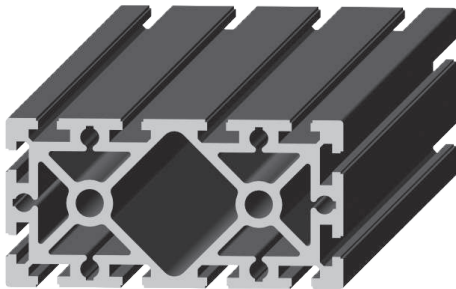
		$I_x$ cm <sup>4</sup>	$I_y$ cm <sup>4</sup>	$W_x$ cm <sup>3</sup>	$W_y$ cm <sup>3</sup>
5061	8,5	245,0	840,1	61,2	150,0

**Perfil ligero 90x180 Light profile 90x180**



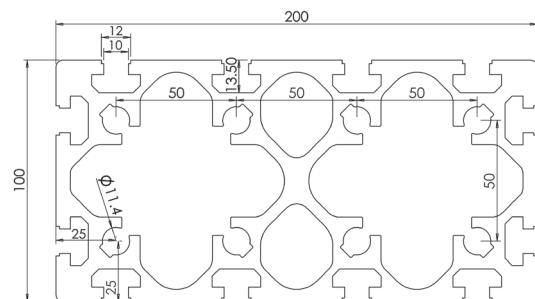
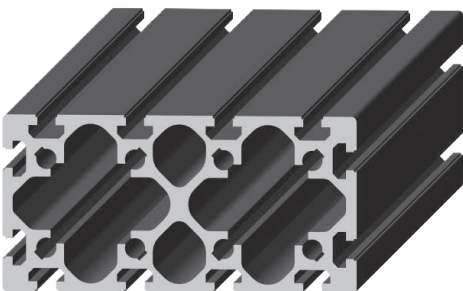
		$I_x$ cm <sup>4</sup>	$I_y$ cm <sup>4</sup>	$W_x$ cm <sup>3</sup>	$W_y$ cm <sup>3</sup>
5099	8,5	354,0	1198,0	78,6	133,1

**Perfil pesado 90x180 Strong profile 90x180**



		$I_x$ cm <sup>4</sup>	$I_y$ cm <sup>4</sup>	$W_x$ cm <sup>3</sup>	$W_y$ cm <sup>3</sup>
5033	17,7	576,0	2194,0	128,0	243,7

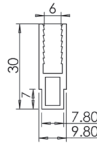
**Perfil básico 100x200 Basic profile 100x200**



		$I_x$ cm <sup>4</sup>	$I_y$ cm <sup>4</sup>	$W_x$ cm <sup>3</sup>	$W_y$ cm <sup>3</sup>
5052	17,8	792,6	2725,5	158,6	272,5

Series especiales Special series

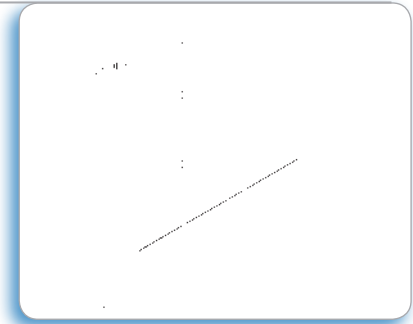
Perfil en U U profile



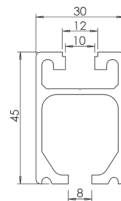
5034



0,3



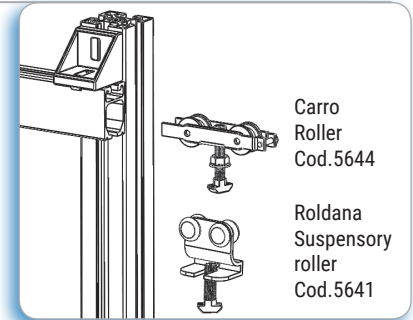
Perfil corredera 45x30 Sliding door profile 45x30



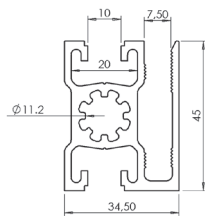
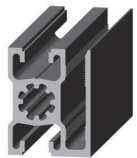
5016



1,1



Perfil perimetral protecciones Protection profile



5007



1,35

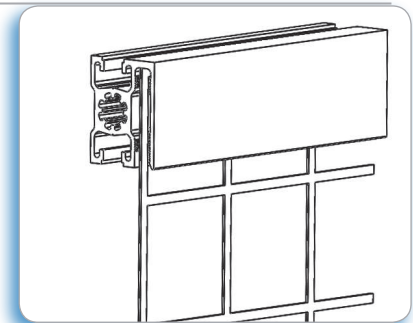
$I_x \text{ cm}^4$   $I_y \text{ cm}^4$   $W_x \text{ cm}^3$   $W_y \text{ cm}^3$

5,8

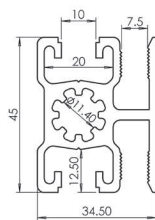
9,4

3,36

4,17



Perfil perimetral doble Double protection profile



50071



1,40

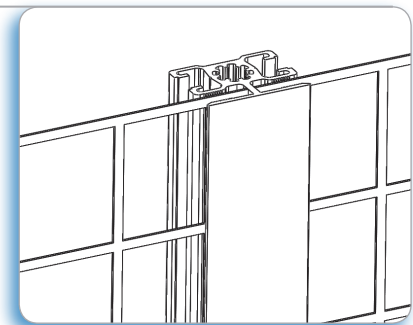
$I_x \text{ cm}^4$   $I_y \text{ cm}^4$   $W_x \text{ cm}^3$   $W_y \text{ cm}^3$

6,6

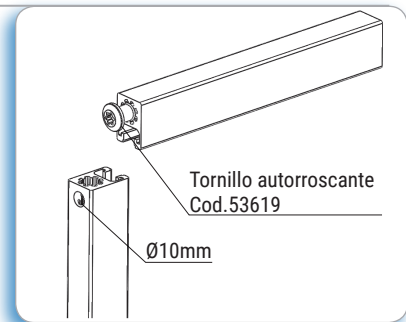
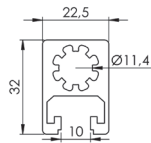
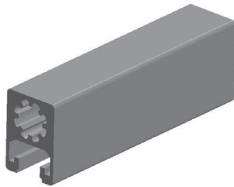
8,3

3,80

3,70

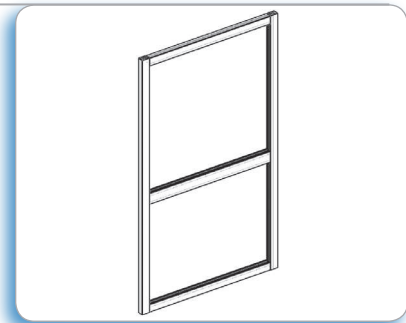
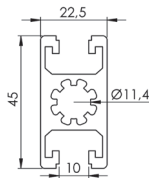
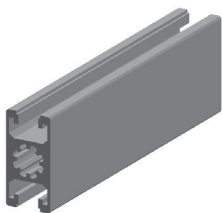


**Perfil marco 22,5 x 32 mm 22,5 x 32mm frame profile**



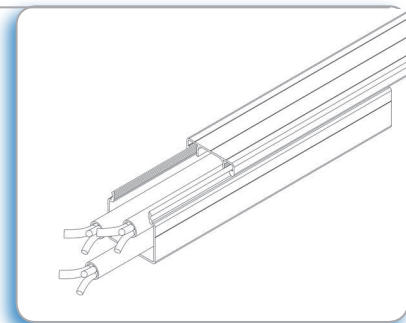
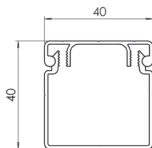
		lx cm4	ly cm4
50341	1	2,3	3,2

**Perfil marco 22,5 x 45 mm 22,5 x 45mm frame profile**



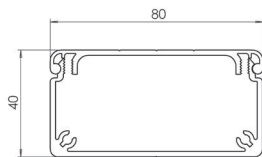
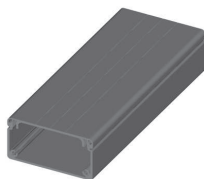
		lx cm4	ly cm4
50342	1	6,8	2,9

**Perfil canaleta 40x40 Conduit profile 40x40**



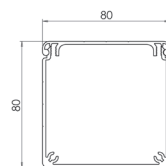
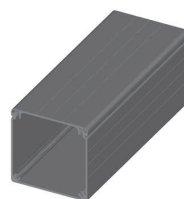
Perfil base / support	5030	0,4
Perfil tapa / cover	5031	0,3
Tapeta / end cover	5507	0,006

**Perfil canaleta 40x80 Conduit profile 40x80**



Perfil base / support	5046	0,9
Perfil Tapa / cover	5045	0,6
Tapeta / end cover	55071	0,025

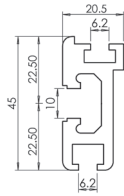
**Perfil canaleta 80x80 Conduit profile 80x80**



Perfil base / support	5047	1,4
Perfil tapa / cover	5045	0,6
Tapeta / end cover	55072	0,05



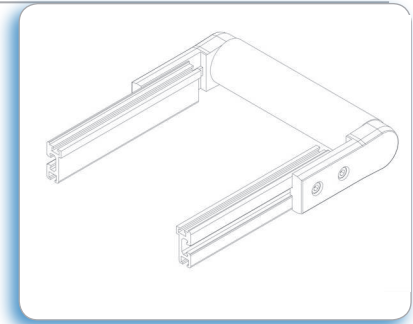
**Perfil transportador 45 Conveyor profile 45**



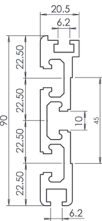
5038



1,1



**Perfil transportador 90 Conveyor profile 90**

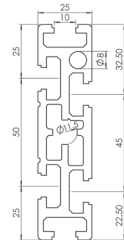


5039



2,0

**Perfil transportador 100 Conveyor profile 100**



5020



2,9

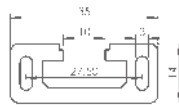
$I_x$  cm<sup>4</sup> 7,4

$I_y$  cm<sup>4</sup> 91,7

$W_x$  cm<sup>3</sup> 5,9

$W_y$  cm<sup>3</sup> 18,4

**Perfil guía transportador Guiding conveyor profile**



5019



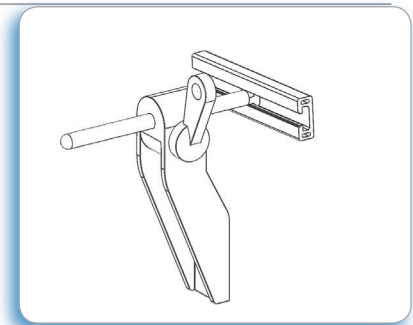
0,8

$I_x$  cm<sup>4</sup> 0,6

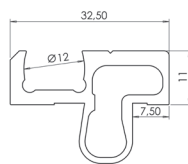
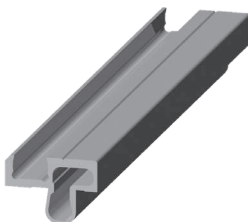
$I_y$  cm<sup>4</sup> 3,6

$W_x$  cm<sup>3</sup> 0,35

$W_y$  cm<sup>3</sup> 5,15



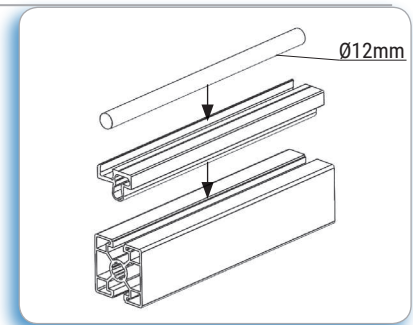
**Perfil deslizamiento lineal Sliding profile**



50993

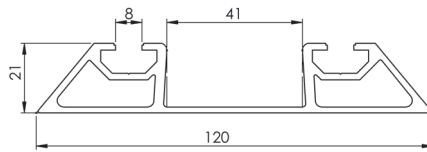
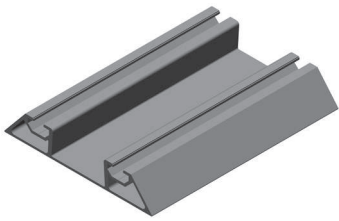


0,6





**Perfil monorail suelo 40mm Floor monorail profile**

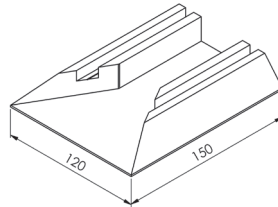
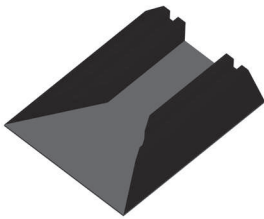


50952



1,5

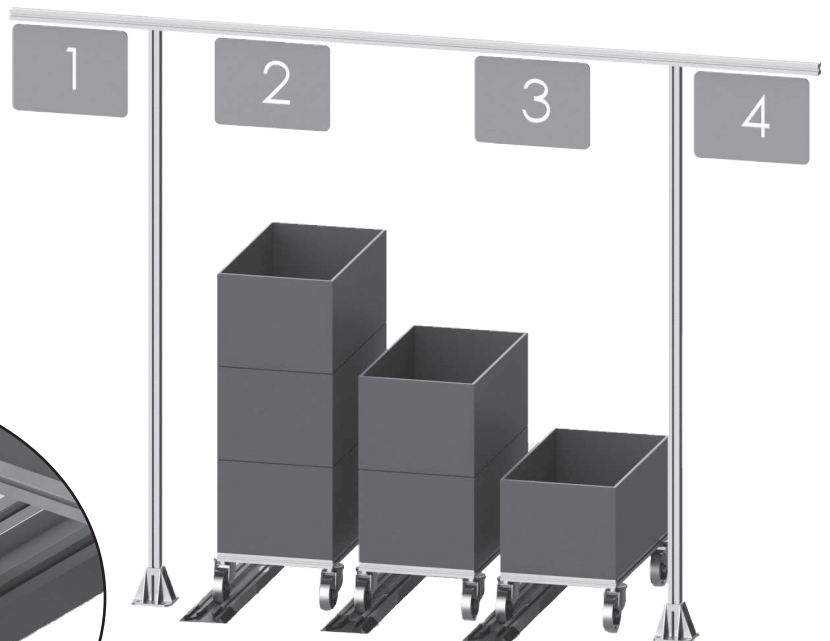
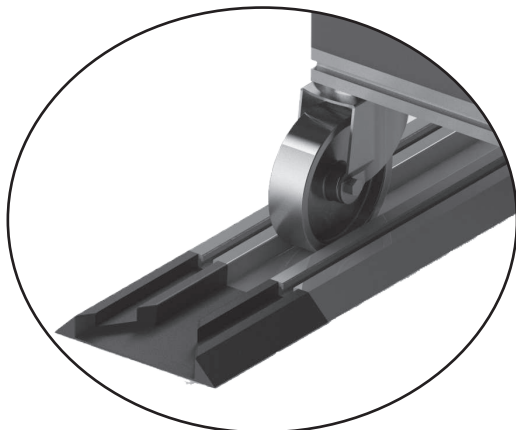
**Tope perfil monorail 40mm Monorail profile end cap**



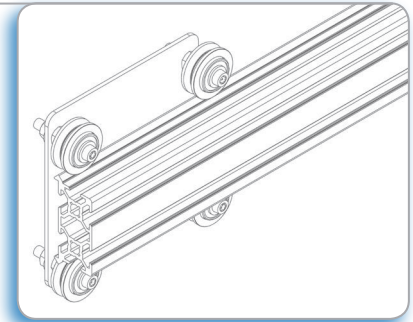
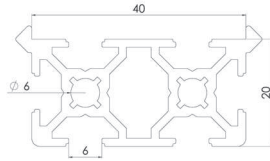
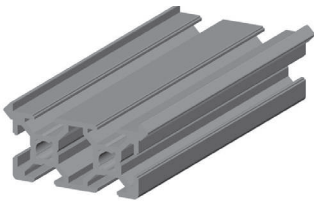
5646



0,5



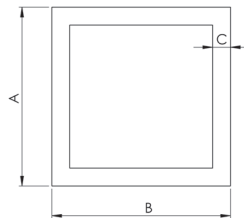
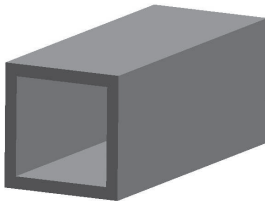
**Perfil 20x40 deslizamiento lineal Sliding profile 20x40**



Aplicación / Application

Barcode	Weight [kg]	$I_x \text{ cm}^4$	$I_y \text{ cm}^4$	$W_x \text{ cm}^3$	$W_y \text{ cm}^3$
50994	0,85	1,2	4,6	1,4	2,5

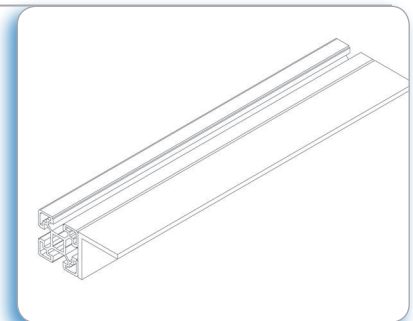
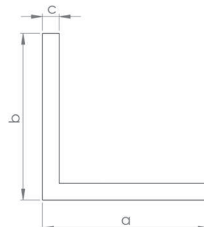
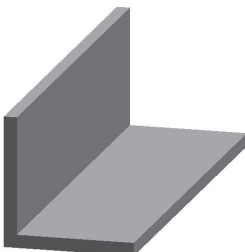
**Perfil tubular Tubular profile**



Aplicación / Application

Barcode	AxBxC	Weight [kg]
50843	30x30x2	0,604
50842	40x40x2	0,820
50841	45x45x2	0,910
5084	50x50x2	1,036
5082	98x98x4,5	3,60

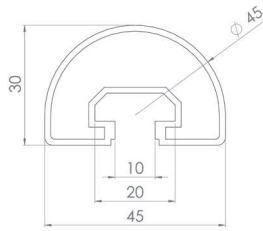
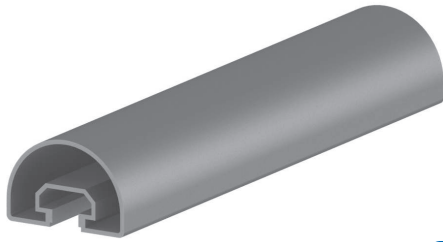
**Ángulos 20/30/40 Angles 20/30/40**



Aplicación / Application

Barcode	a mm	b mm	c mm	Weight [kg]
50862	20	20	1,5	0,22
50861	30	30	2	0,33
5086	40	40	4	0,87
50863	50	50	4	1,037
50864	60	60	5	1,553

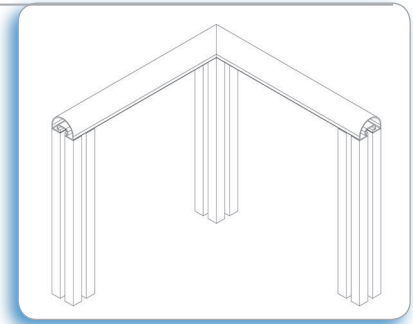
**Perfil barandilla Hand rail profile**



50945

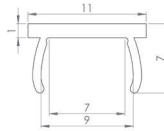
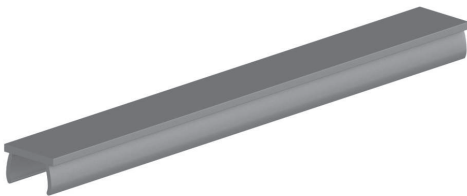


0,7



**Aplicación / Application**

**Tapacanal rígido Aluminio**  
**Groove cover profile Aluminium**



50951



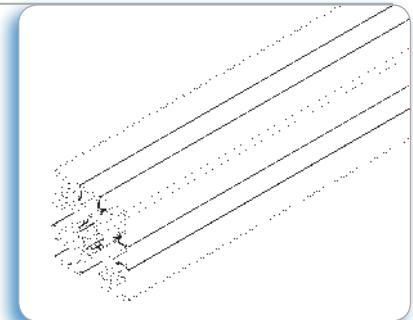
0,1

**Color / material**

Aluminio



40/45/50/60/80/90



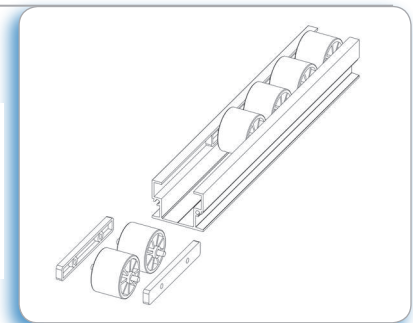
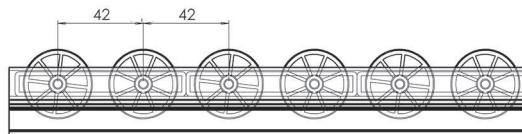
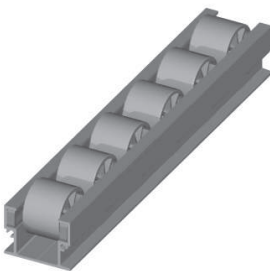
**Aplicación**

Para el recubrimiento de los canales de los perfiles de aluminio. Se recomienda su uso para evitar la acumulación de partículas o para mantener los cables en los canales del perfil.

**Application**

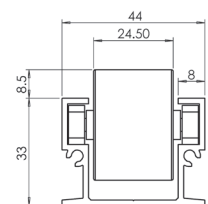
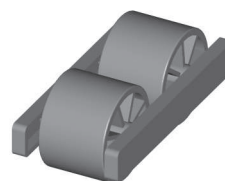
For the covering of profile slots. Recommended to avoid accumulation of particles or to keep cables inside profile slots.

**Perfil minicarril Minirail profile Aluminio / Aluminium**

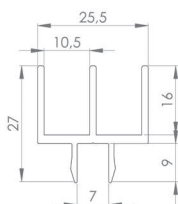
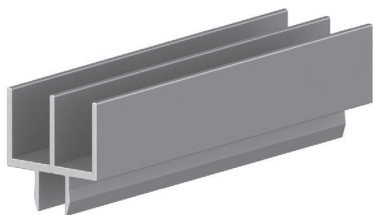


**Aplicación / Application**

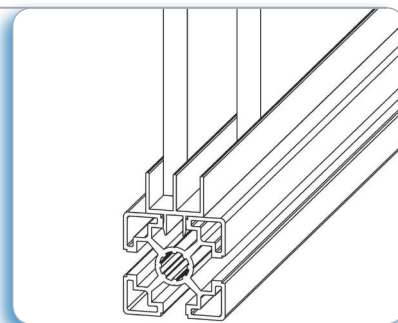
Perfil minicarril montado		
Minirail profile assembled	5574	1,2
Componentes / Components		
Rueda negra / Black wheel	5570	0,013
Rueda amarilla / Yellow	5570A	0,013
Rueda roja / Red wheel	5570R	0,013
Rueda verde / Green wheel	5570V	0,013
Soporte / holder	5571	0,003
Eje / axle	5572	0,004
Tapa / end cover	5573	0,025
Perfil aluminio / aluminium profile	5050	0,7



## Perfil corredera doble **Double sliding door profile**



10 mm



### Aplicación

Permite el montaje de dos puertas correderas.  
Espesor máximo de paneles: 10 mm.

### Application

Suitable for two sliding doors.  
Maximum thickness of panels: 10 mm.

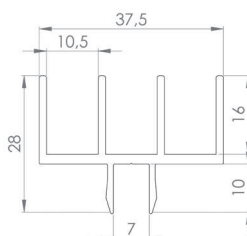
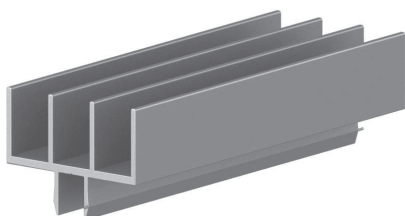


50162

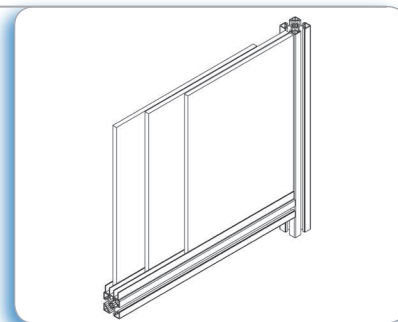


0,5

## Perfil corredera triple **Triple sliding door profile**



10 mm



### Aplicación

Permite el montaje de tres puertas correderas.  
Espesor máximo de paneles: 10 mm.

### Application

Suitable for three sliding doors.  
Maximum thickness of panels: 10 mm.

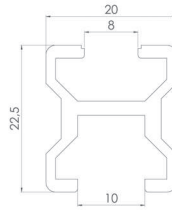
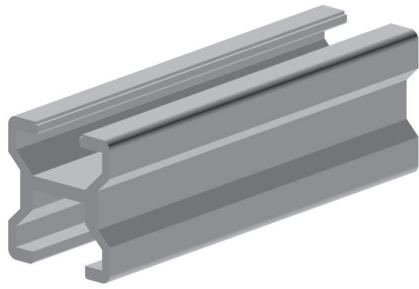


50163

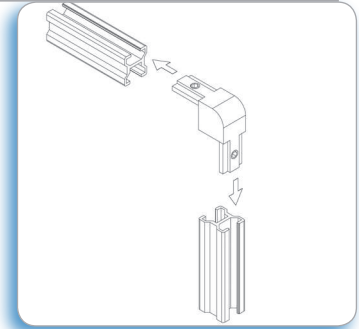


0,6

**Perfil marco 20x22,5 Frame Profile 20x22,5**



10 mm



50946

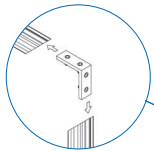
0,4

**Aplicación**

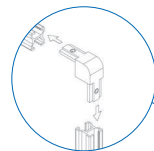
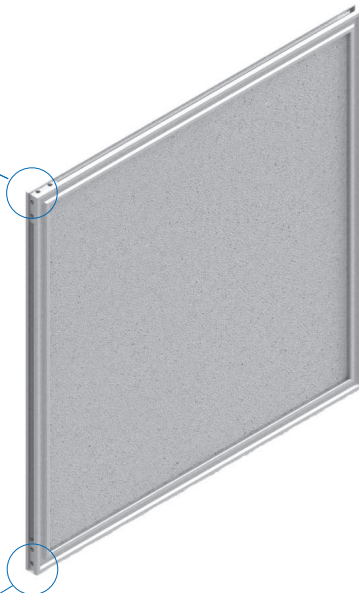
Para la fabricación de paneles y marcos.

**Application**

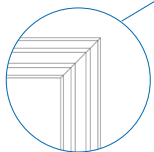
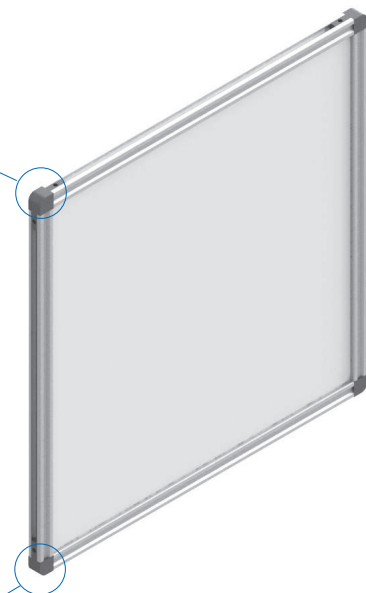
Used for panels and door frames.



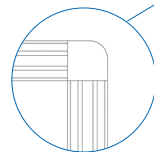
cod. 53303



cod. 53304



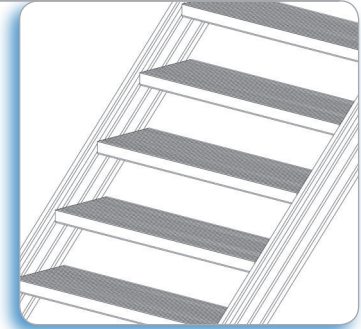
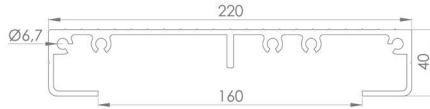
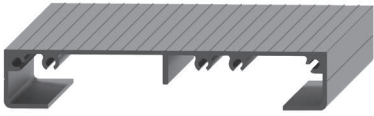
Perfil cortado a 45°  
Profile cut 45°



Perfil cortado a 90°  
Profile cut 90°

Materiales	Materials
Pizarra	Writing boards
Corcho	Cork boards
Chapa lacada	Magnetic boards
Foam	Foam
.../...	.../...

**Perfil peldaño Step profile**



509941

4

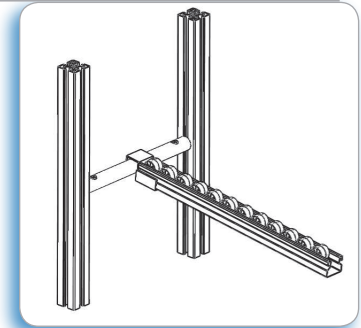
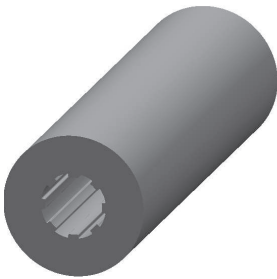
**Aplicación**

Permite el montaje de escaleras y suelos técnicos.

**Application**

Suitable for stairs and technical floors.

**Perfil tubo redondo pesado Ø28 Strong round profile Ø28**



50702

1,35

**Aplicación**

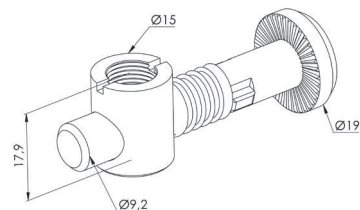
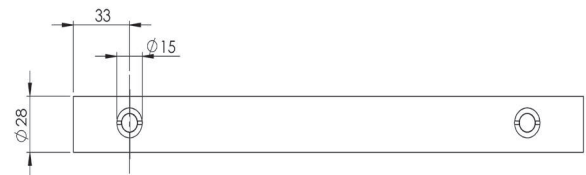
Permite la fijación de minicarril y su regulación en altura mediante los conectores de los extremos.

**Application**

To assemble roller tracks allowing height regulation.

**Conector cabeza redonda tubo Ø28 mm Acero zincado**

**Round head joint tube Ø28 mm Zinc plated steel**



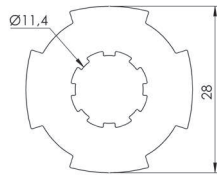
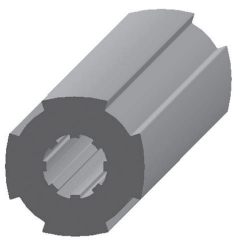
53521

33mm

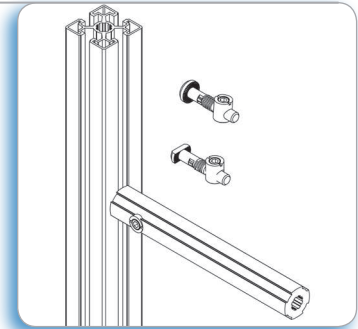
15

0,05

**Perfil redondo EVOLEAN 28 pesado Strong round EVOLEAN 28 profile**



50705 1,3

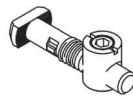
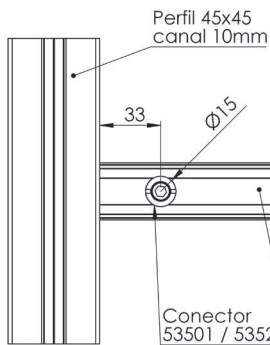


**Aplicación**

Permite conectar tubos de la serie evolean a los perfiles de aluminio mediante el uso de conectores.

**Application**

To connect evolean's tubes to aluminium profiles through connectors.

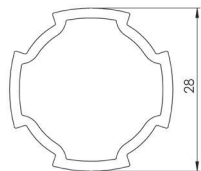
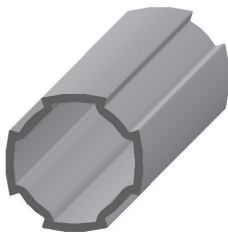


53501 0,05

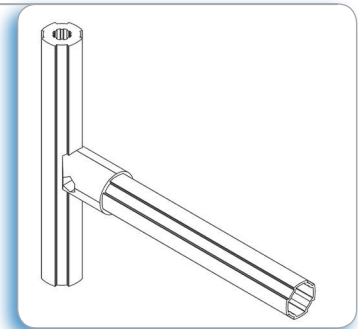


53521 0,05

**Perfil redondo EVOLEAN 28 ligero Light round EVOLEAN 28 profile**



50704 0,5

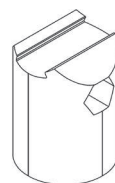
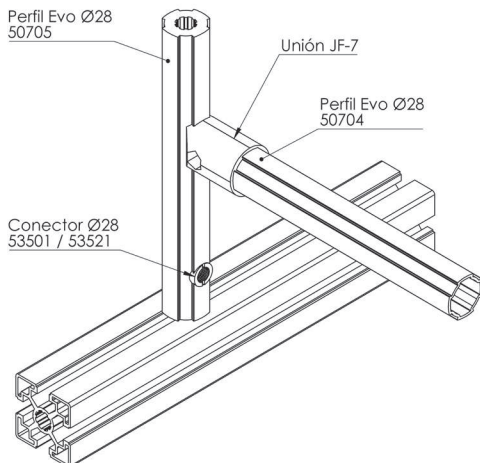


**Aplicación**

Permite conectar tubos de la serie evolean entre si mediante el uso de uniones del tipo JF-7.

**Application**

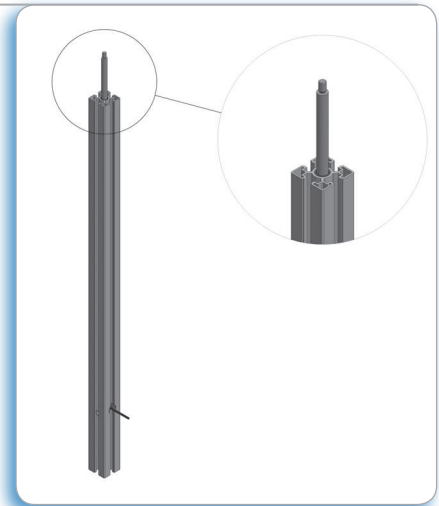
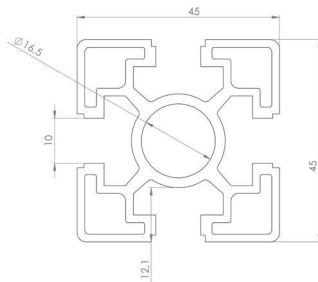
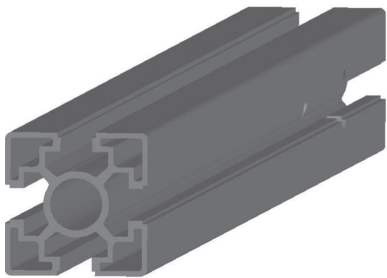
To connect evolean's tubes between them using JF- type joints.



JF-7 0,55



## Perfil actuador hidráulico 45 hydraulic actuator profile



5041



1,7

Ix cm<sup>4</sup>

12,0

Iy cm<sup>4</sup>

12,0

Wx cm<sup>3</sup>

5,3

Wy cm<sup>3</sup>

5,3

### Aplicación

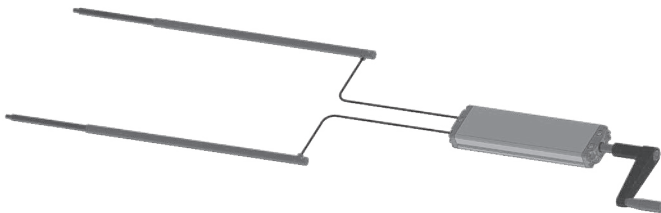
Permite la regulación en altura. El cilindro hidráulico se aloja en el interior del perfil. Carrera máxima 400mm. Carga máxima 100Kg

### Application

Allows height levelling. The application of this system allows housing and hydraulic cylinder. Max. Stroke 400mm. Max. Load 100Kg

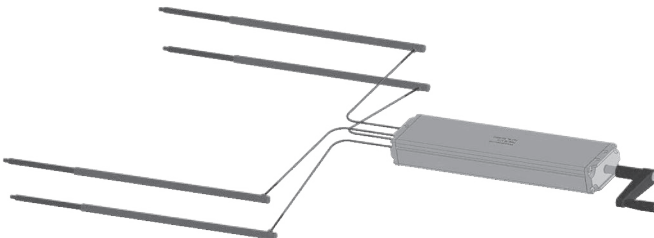
## Kit de regulación altura Kit height levelling

### 2 actuadores + bomba



**Carga : 100Kg / actuador**

### 4 actuadores + bomba



# EJEMPLOS DE MONTAJE

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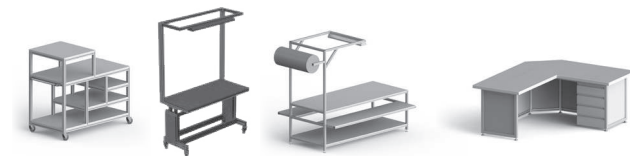
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página/page 144



página/page 145



página/page 146



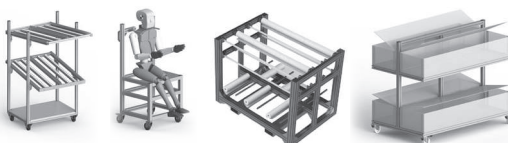
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# ASSEMBLY EXAMPLES



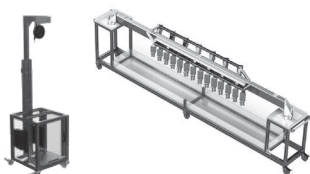
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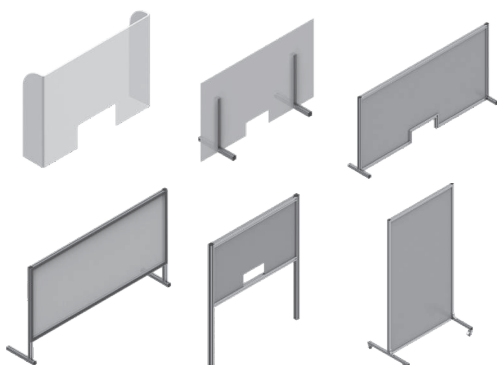
página/page 154



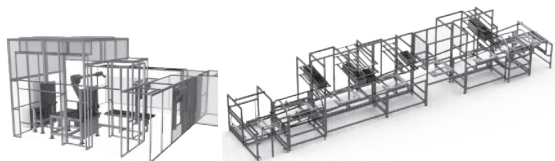
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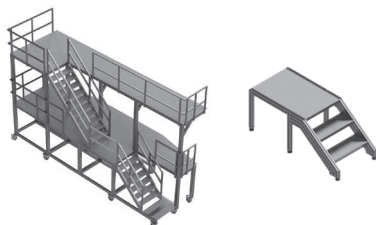
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página/page 157



página/page 158

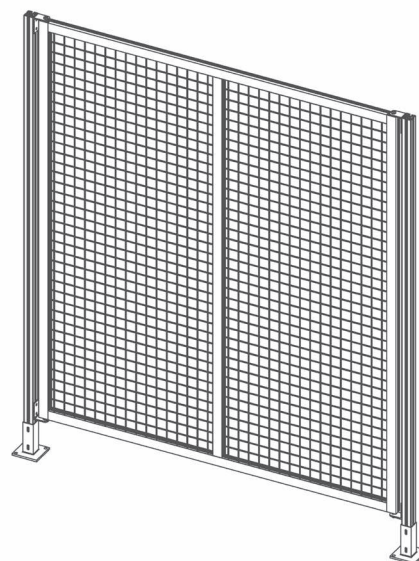
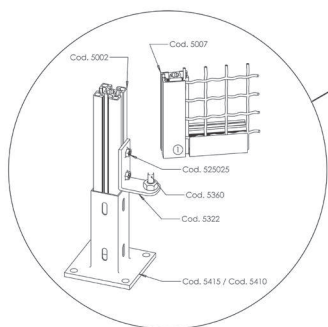
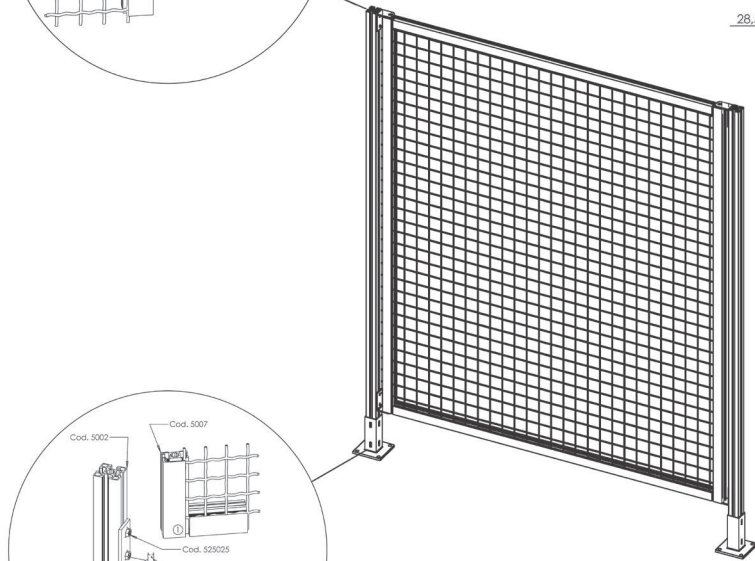
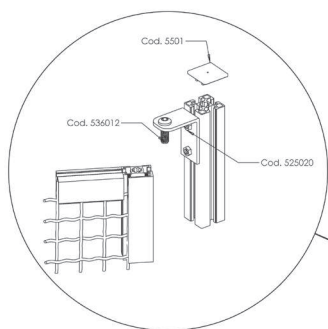
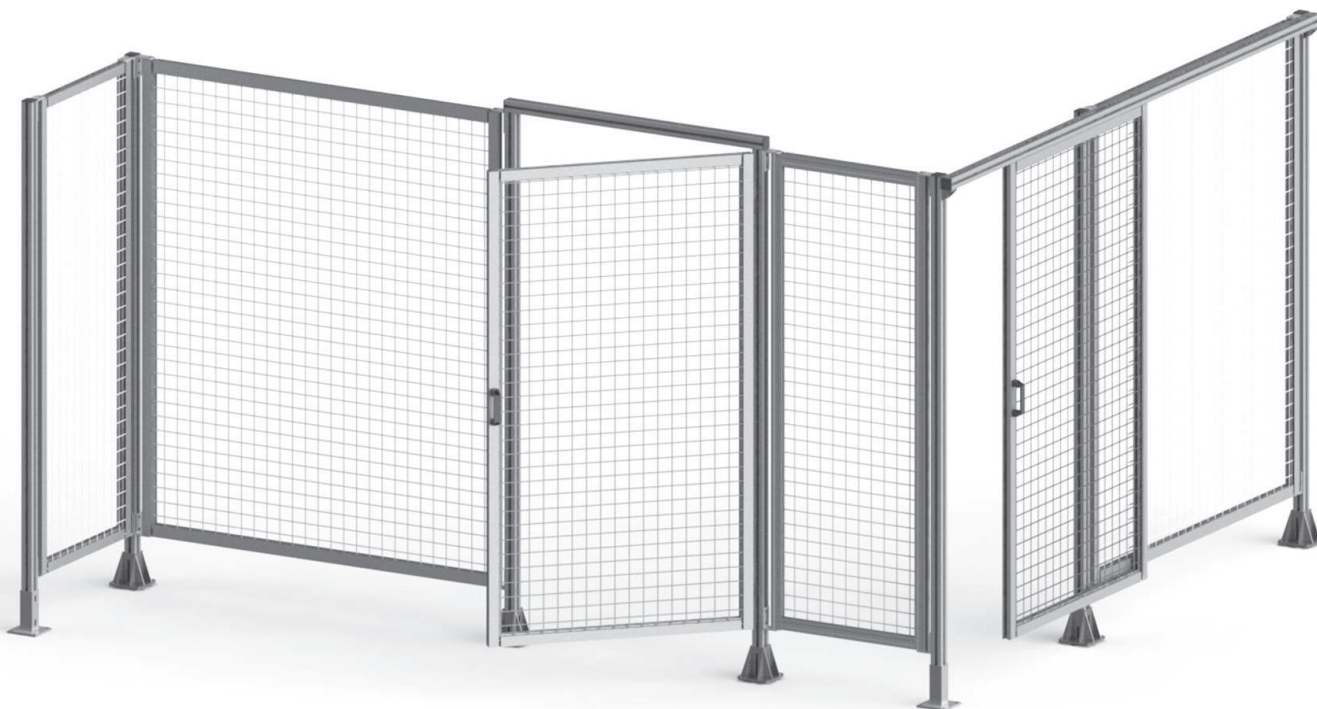


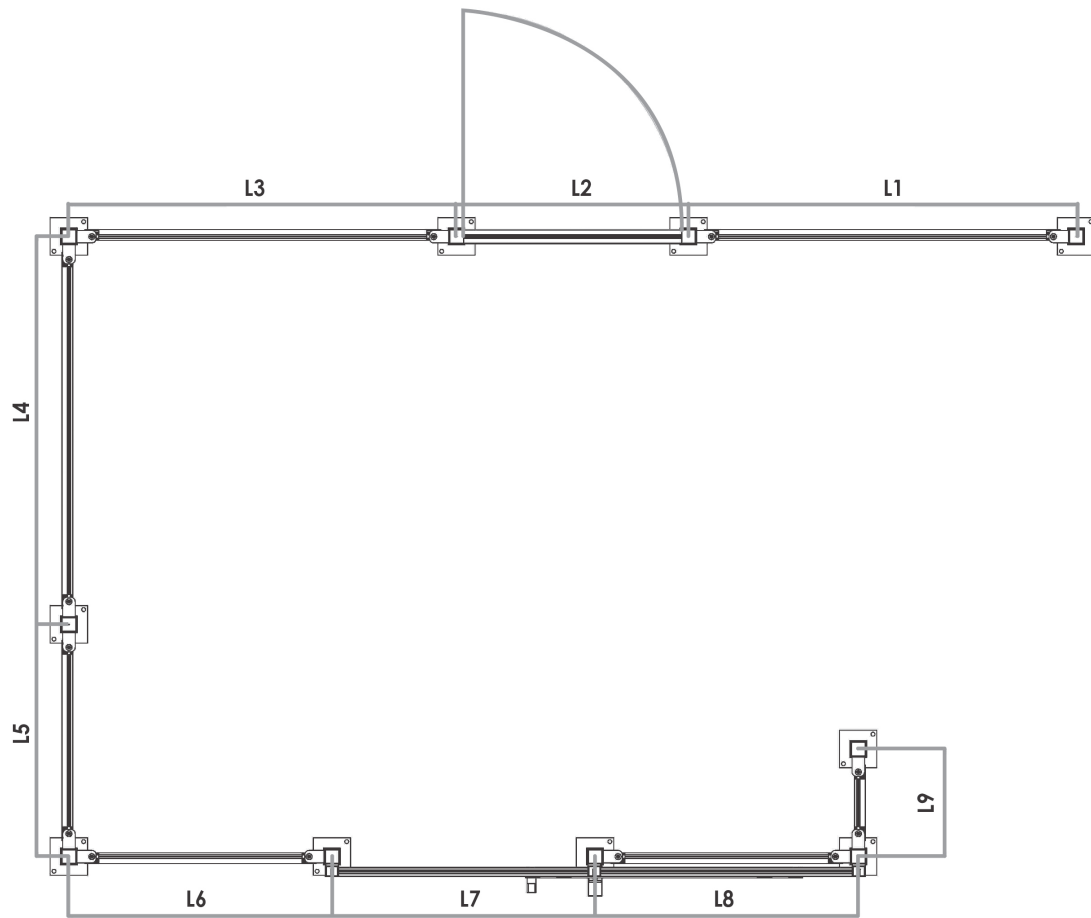
página/page 159

# EJEMPLOS DE MONTAJE

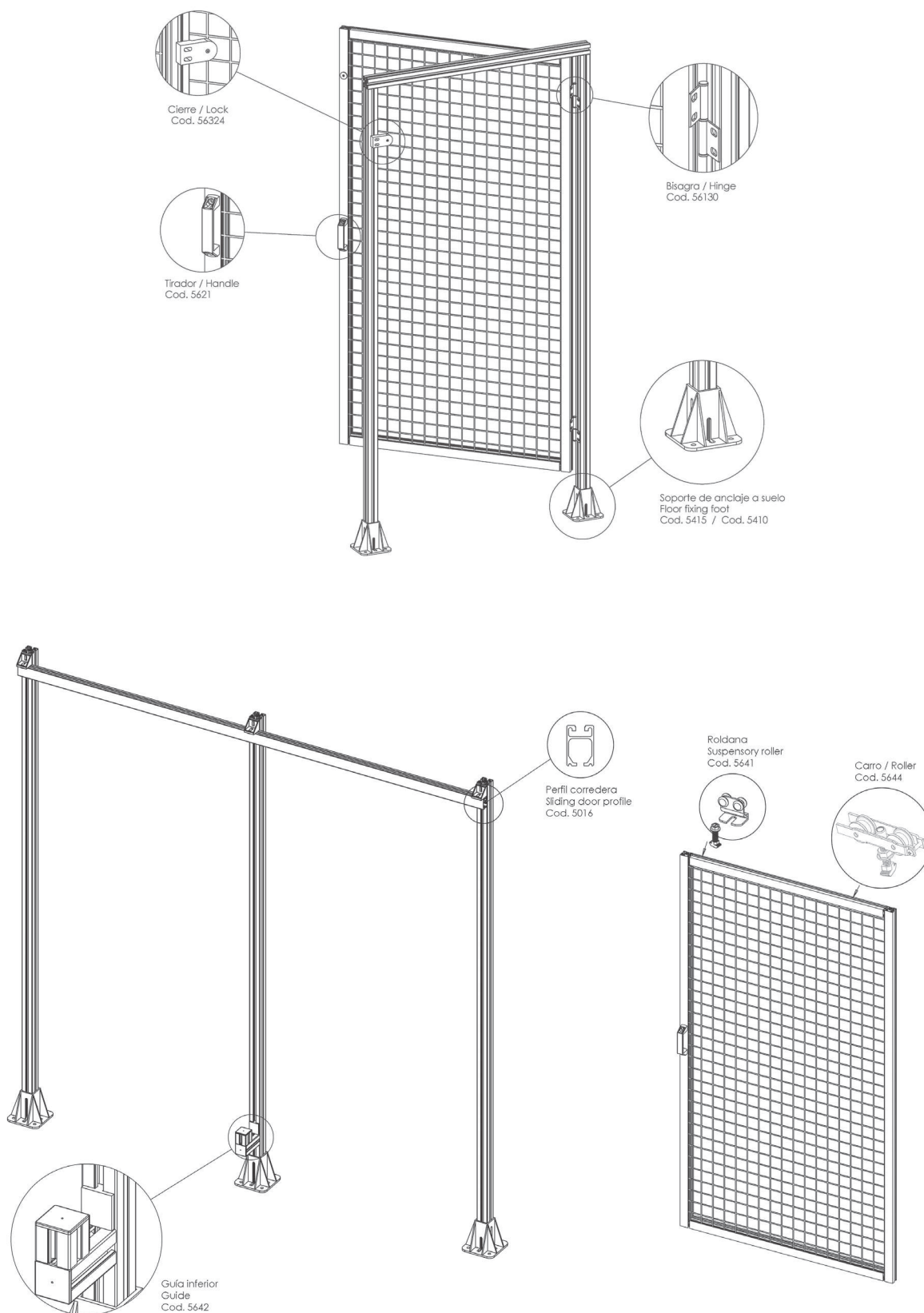
# ASSEMBLY EXAMPLES

## Cerramientos de seguridad Safety enclosures

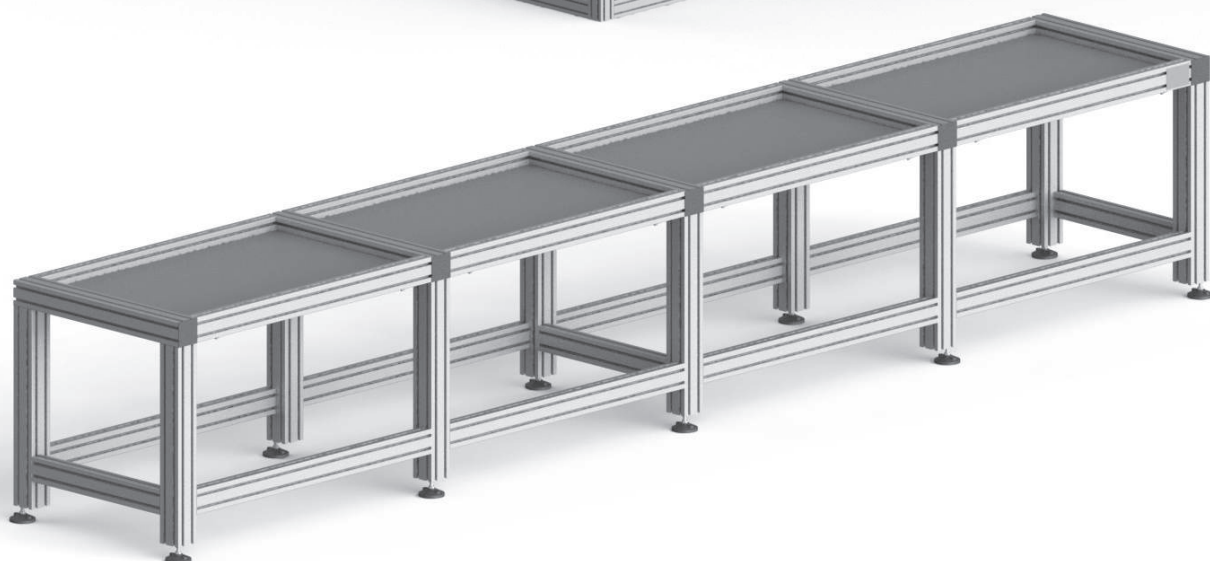
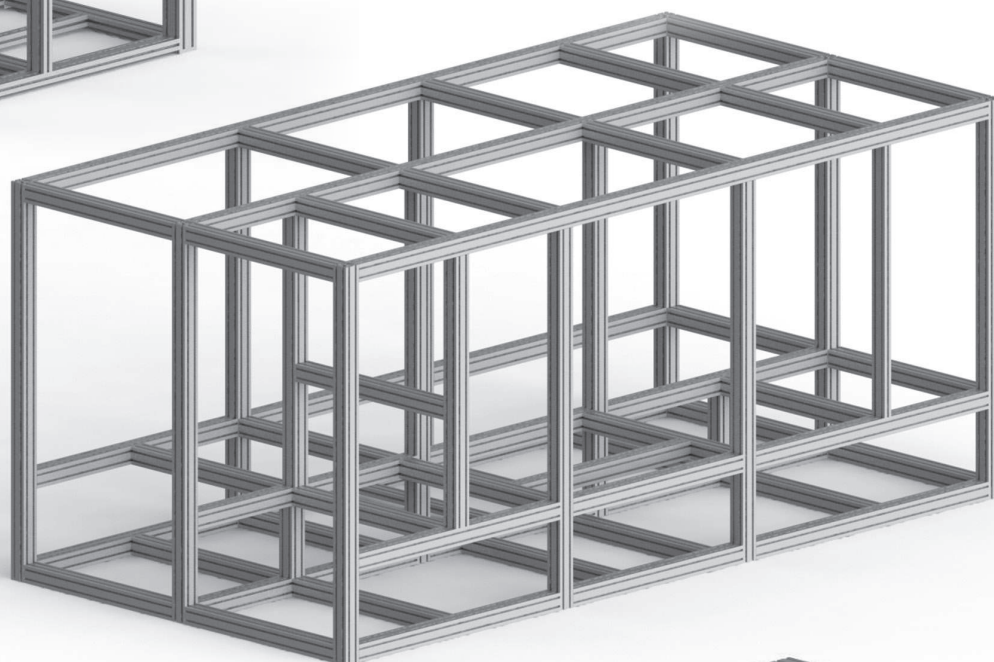
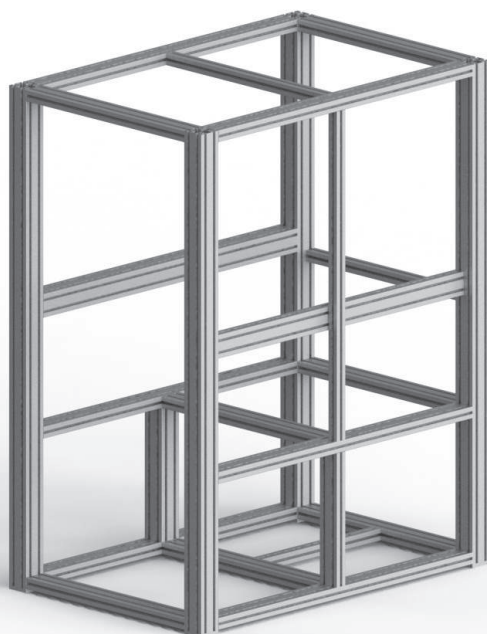




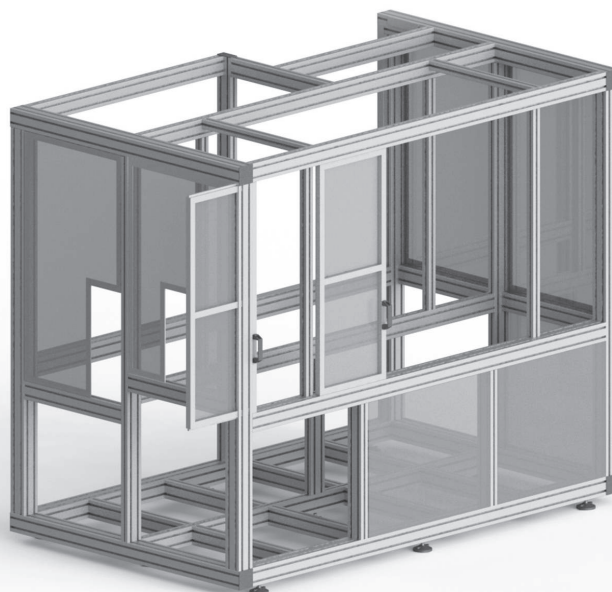
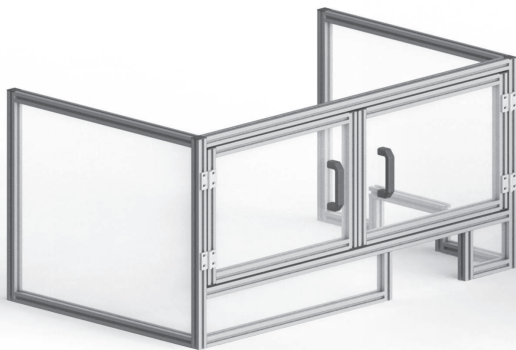
## Puerta batiente y puerta corredera Swinging door and sliding door



**Bastidores de máquina**  
**Machine structures**

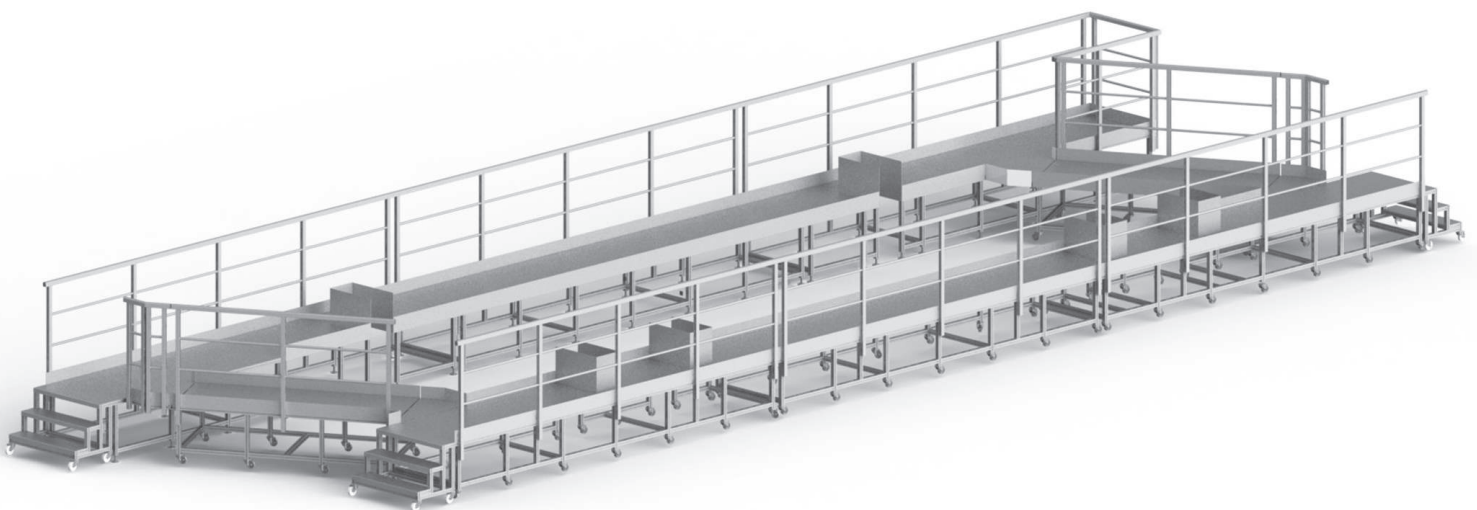


## Protecciones de maquinaria Machine protections

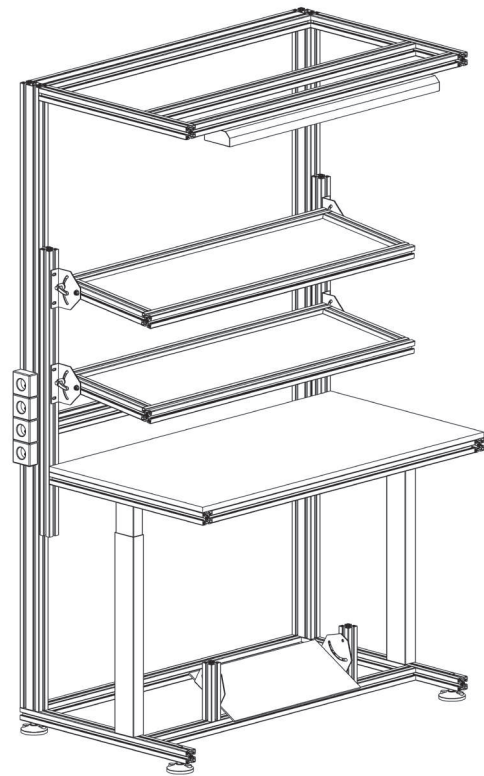
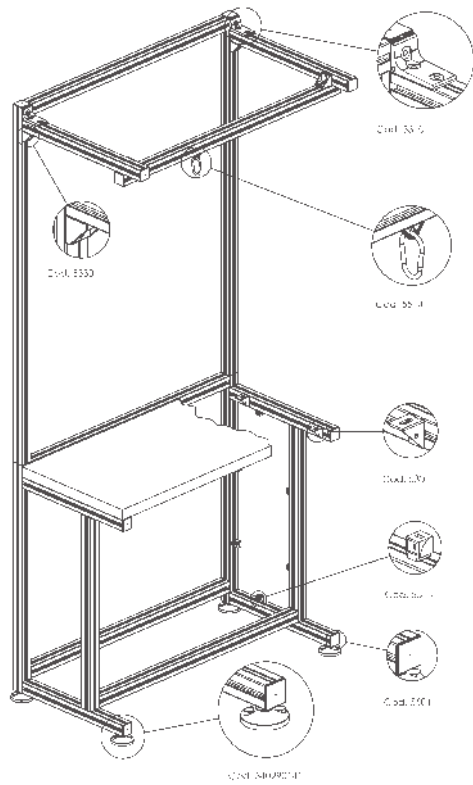




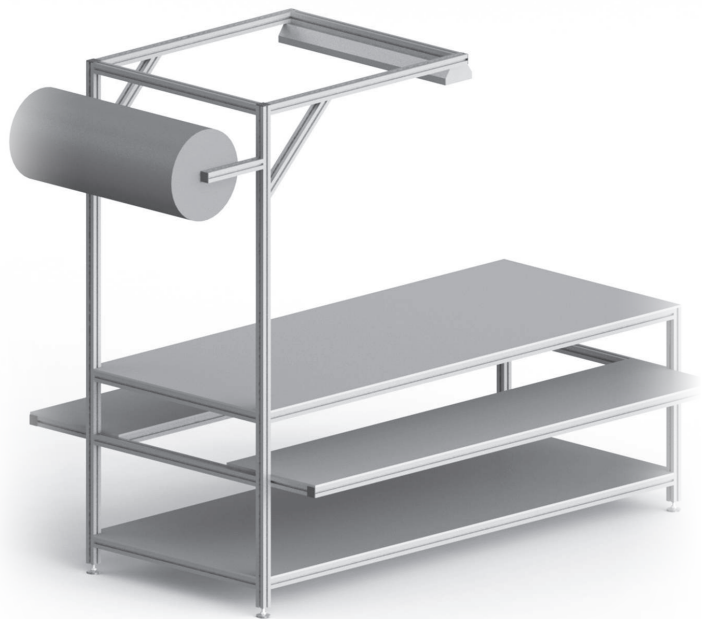
**Plataformas y pasarelas**  
**Platforms and runways**



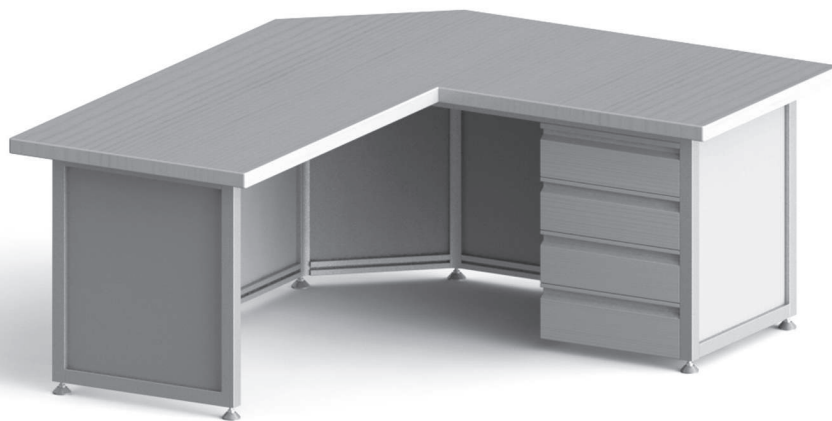
## Estaciones de trabajo Working stations



**Mesas de trabajo**  
**Working tables**



**Mesas modulares**  
**Modular tables**



## Archivadores Counters



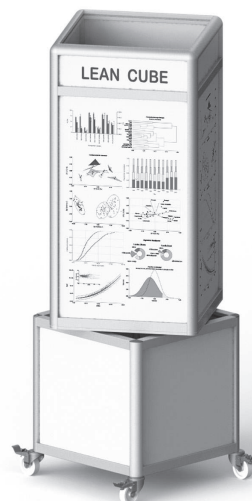
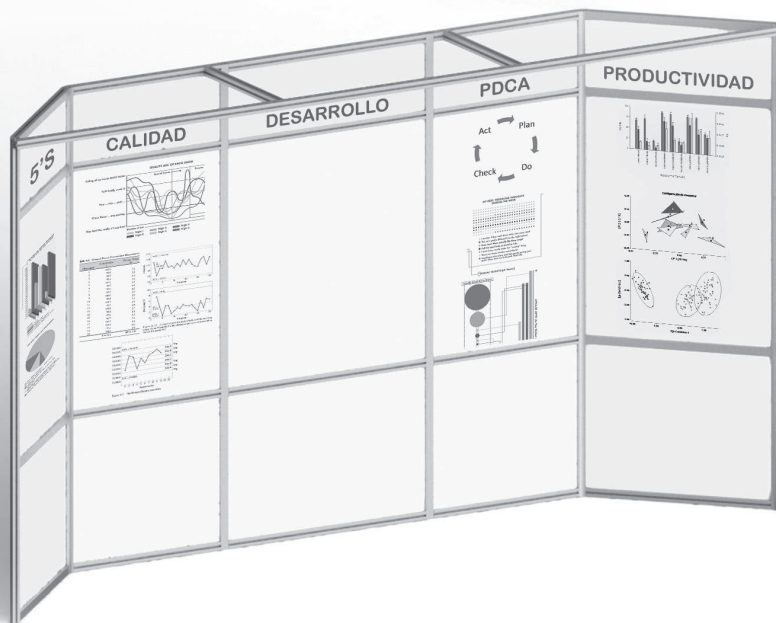
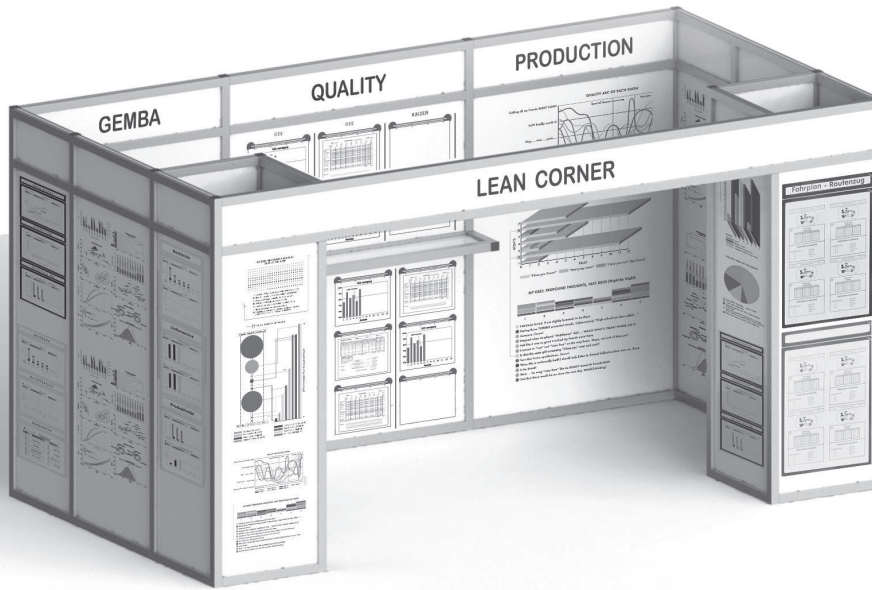
## Paneles informativos Informative panels



## Pizarras Whiteboards

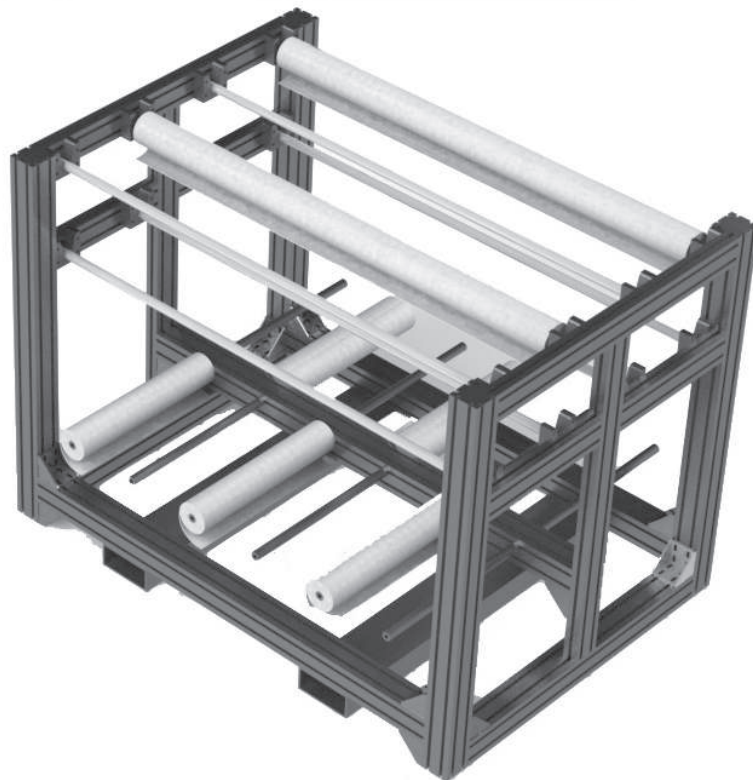
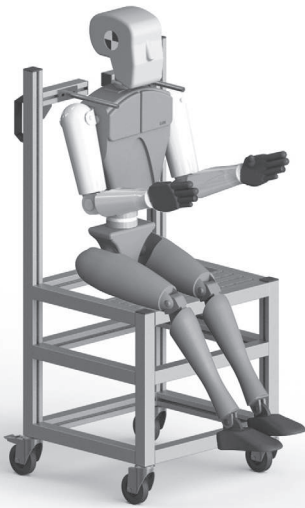


Estructuras para la gestión visual  
Visual management structures

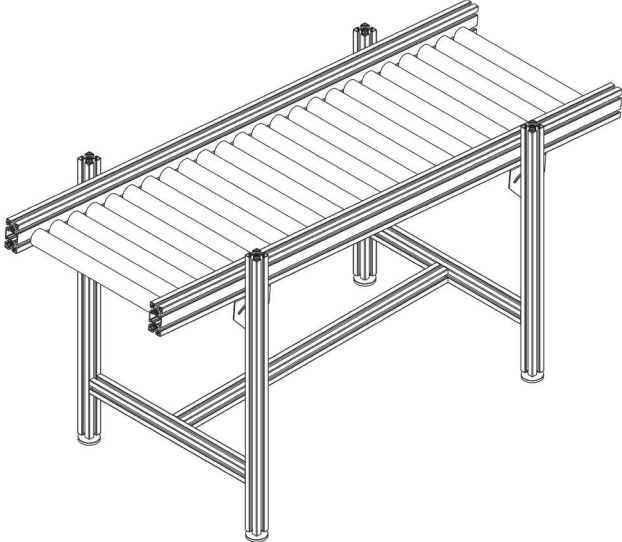
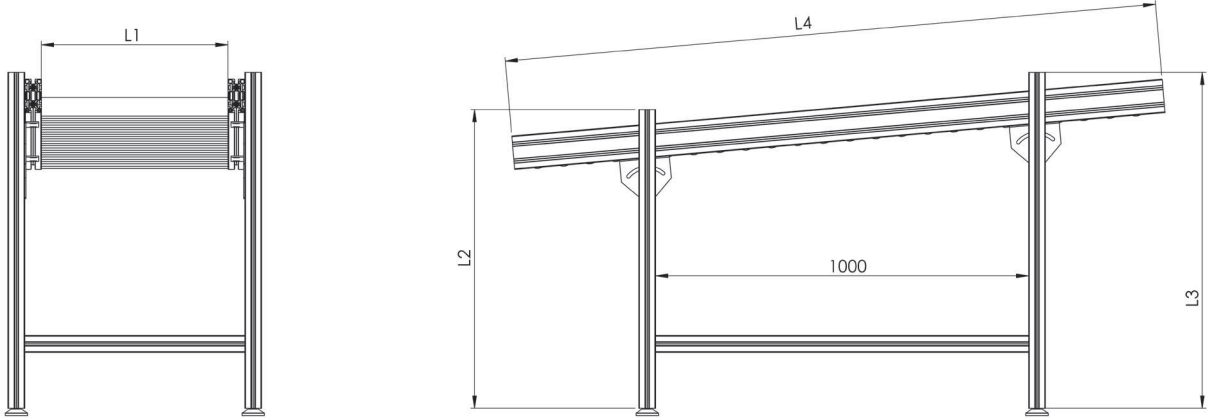


## Carros de apoyo Transport and support trolleys





Transportadores de rodillos  
Roller conveyors





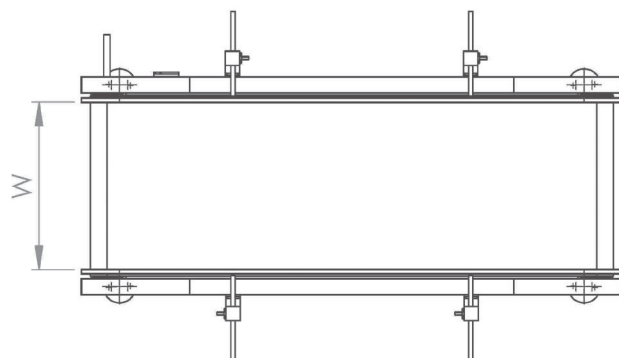
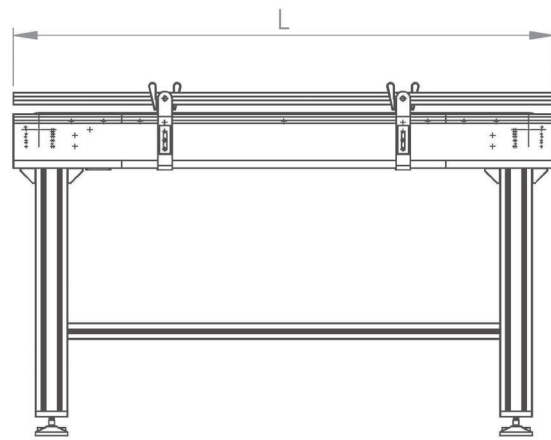
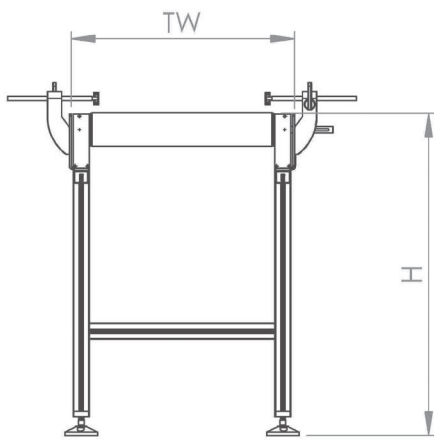


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**Transportadores de rodillos motorizados**  
**Motorized roller conveyors**



## Transportadores de banda Belt conveyors



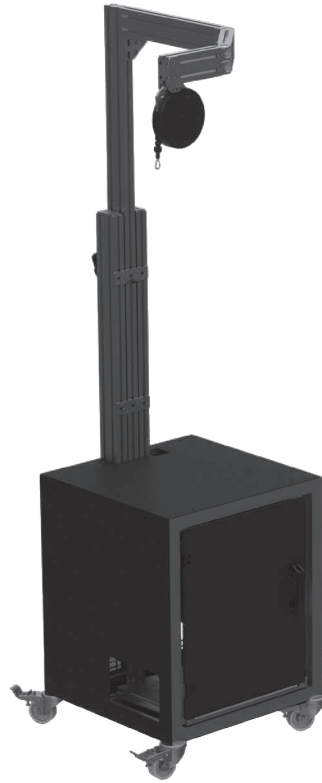
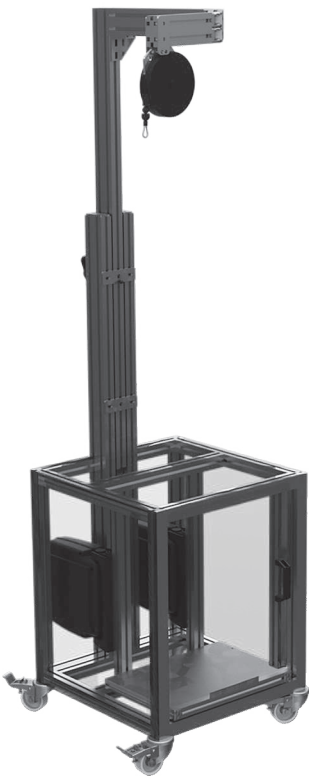


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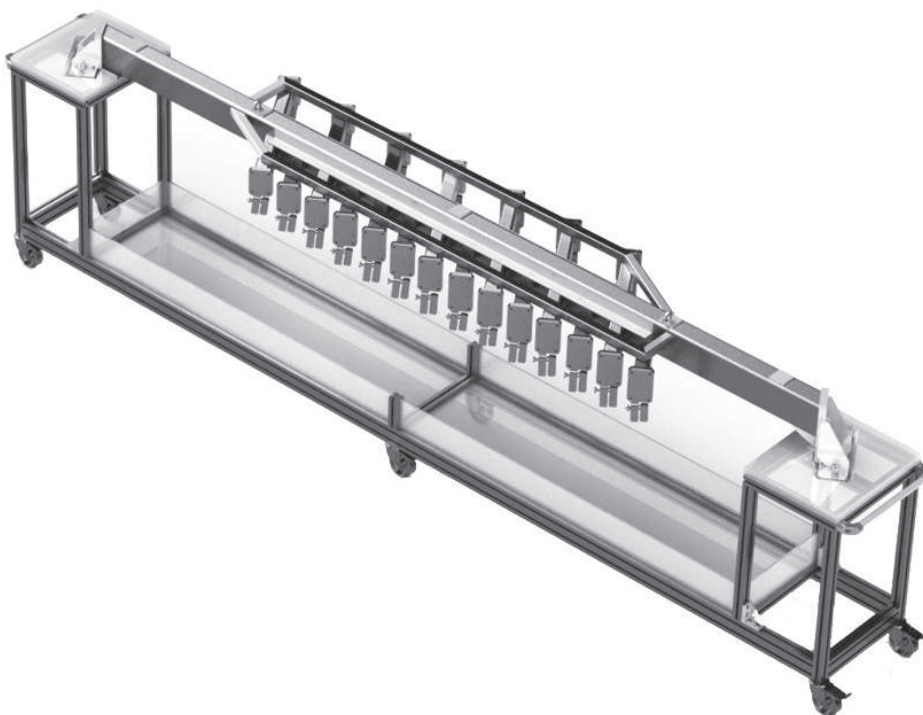
**Carterizaciones**  
**Tailor-made equipment**



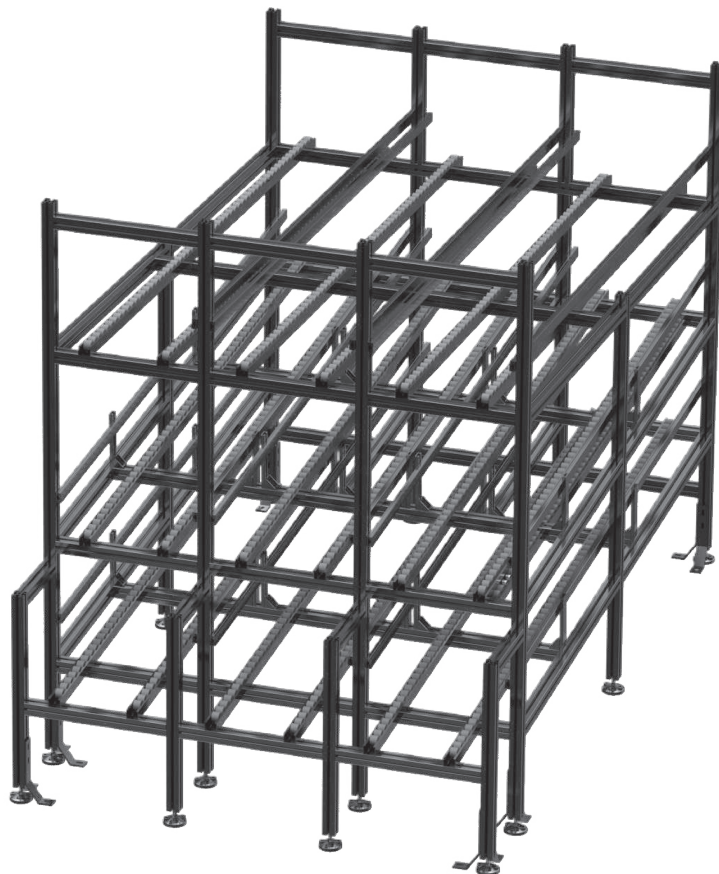
## Carro porta herramientas Tool trolley cabinets



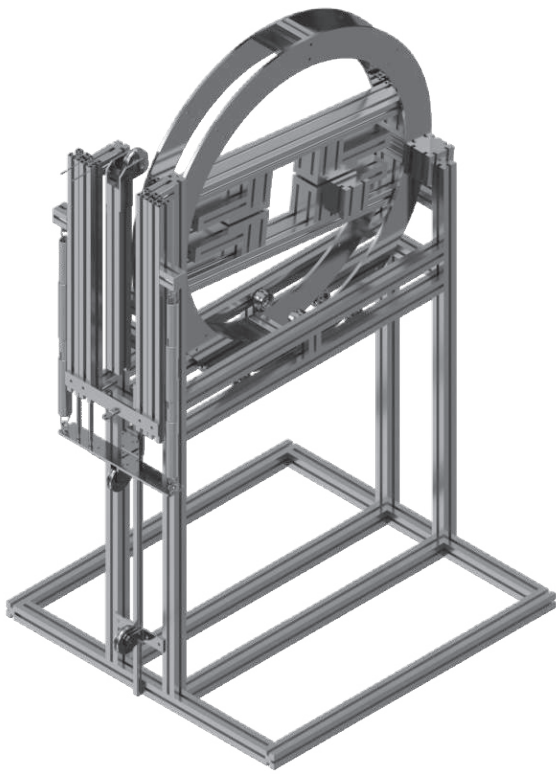
## Carro utillaje Tooling trolley



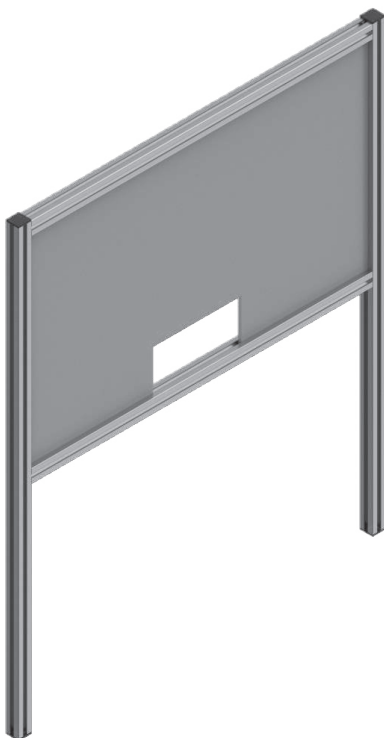
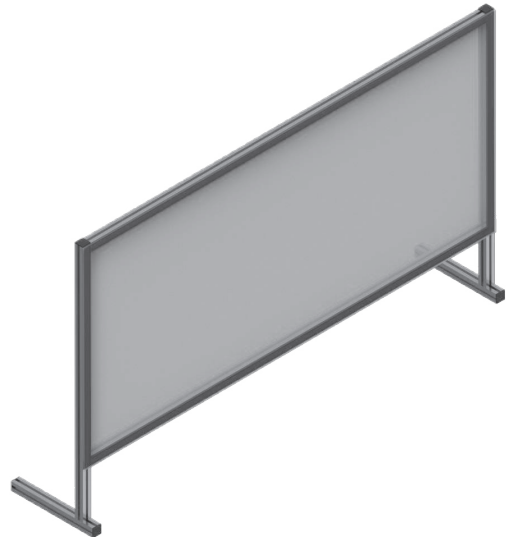
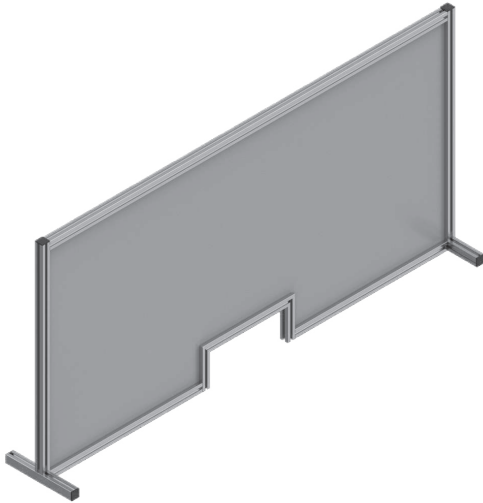
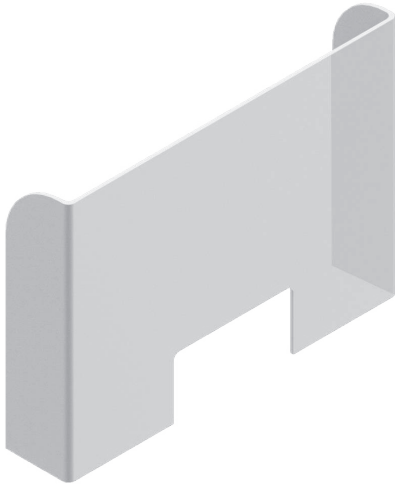
**Estanterías dinámicas**  
**Dynamic shelves**



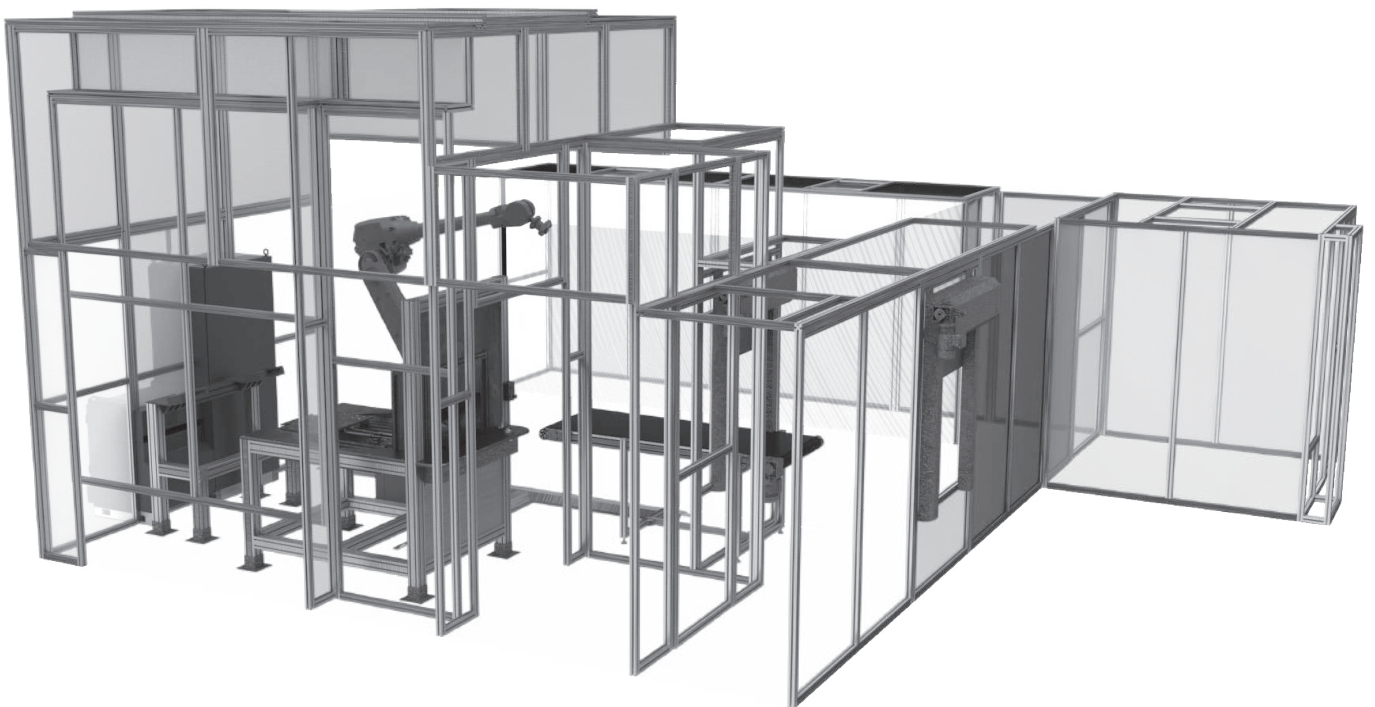
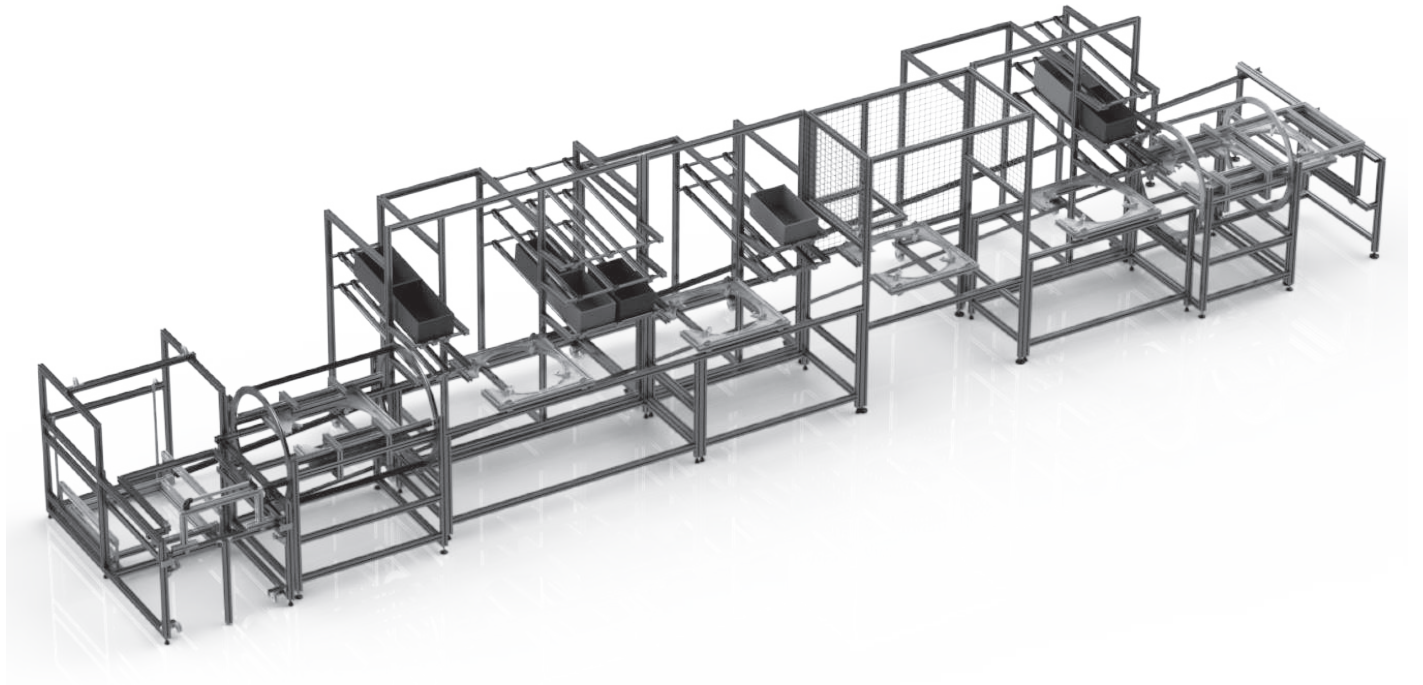
## Volteadores Turning tables



Mamparas de protección  
Safety screens

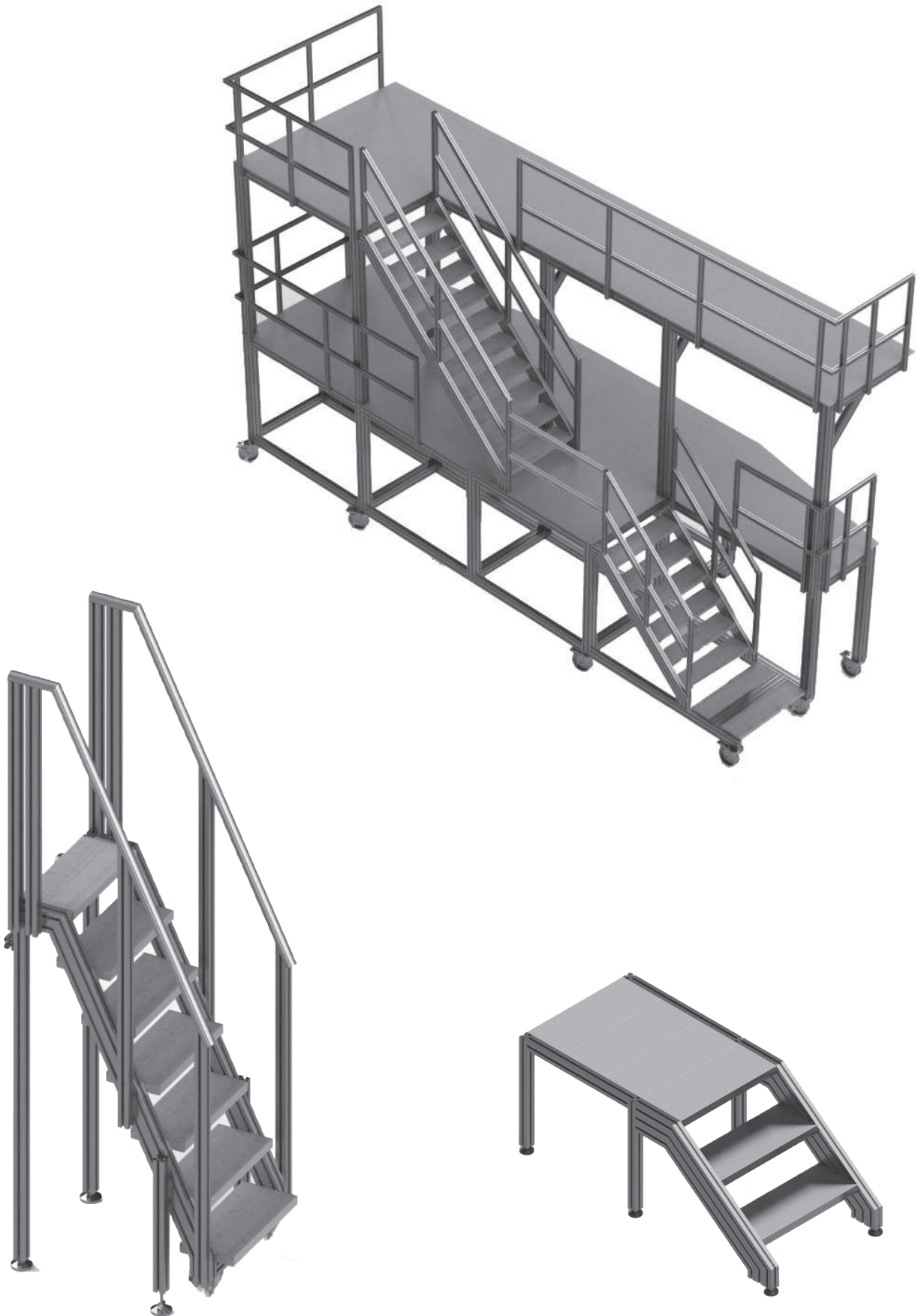


## Líneas de producción Assembly lines



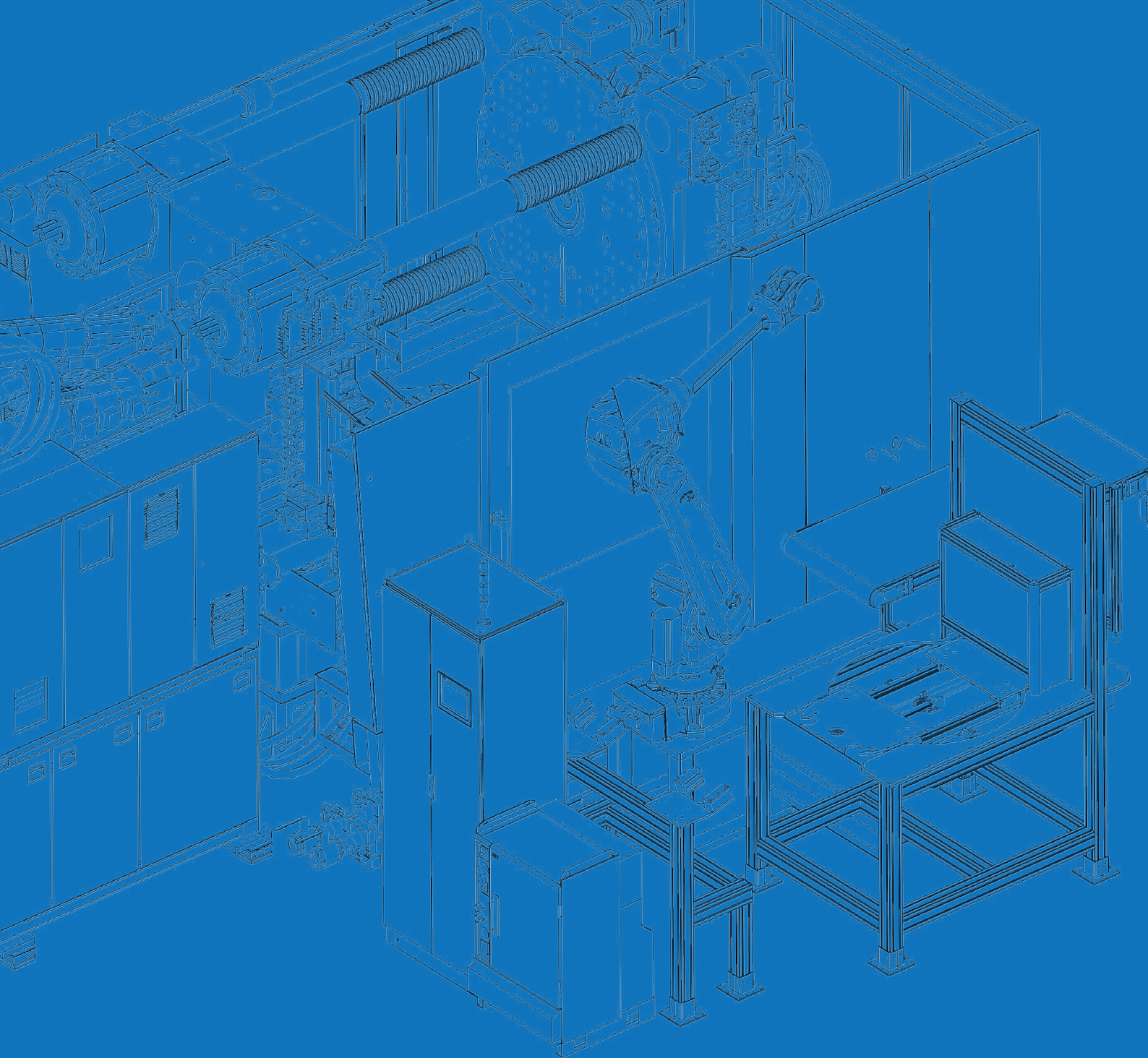


Escaleras  
Stairs









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