



SPECIAL SOLUTIONS FOR ALUMINUM CARPENTRY



 **anudal**[®]

Corner joints for aluminum carpentry
Bearings for sliding doors and windows





anudal®

Corner joints for aluminum carpentry
Bearings for sliding doors and windows

Since 1986, Anudal is a Spanish company specialized in the design and manufacture of corner joints for the assembly of aluminum carpentry profiles. Anudal has an international presence in the rest of Europe, Latin America and North Africa. Innovation is a fundamental value, with more than 40 patents and 2,500 active references. To provide better solutions to different markets, it has branches in Mexico, Brazil and a company specialized in the production of cars, Manufacturas Mendavia



Technical office

Our R&D department designs products adapting to the needs of each client, market segment or country

Quality

Certified by the ISO 9001 system, we carry out regular controls in production for the correct squad operation

Service

We have more than 500 references in stock for fast service



anuverde

Our commitment as a company is based on generating a positive impact on people and the planet through environmental actions and policies beyond existing regulation, with a policy based on waste reduction, more environmentally friendly manufacturing, bring sustainable products to the market, and create social awareness.



Customization

We understand the importance of standing out in the market with your own brand; therefore, we help you feature your brand on our products, always guaranteed by Anudal Quality.



Recyclability

Aluminum is a sustainable, 100% recyclable material. We are committed to circularity as a driver for change; our corner joints can be recycled to be transformed into other products in the future.



Suitable for marine environments (non-corrosive)

Our corner joints are manufactured with 6063 and 6005 extruded aluminum, featuring optimal properties to withstand saline areas without the risk of altering the product's performance.



No tooling costs

We use our range of 200 stock profiles to manufacture the right dimensions for your profile.



Flexible production batches

Production batches starting from 1,000 units.



Versatility

We design the solution to adapt to your aluminum profile.



Screw-fix corner joints



Pressure corner joints



Locking corner joints



European-groove corner joints



Movable pin corner joints



Special corner joints



Alignment corner joints



Connectors / T-Joints

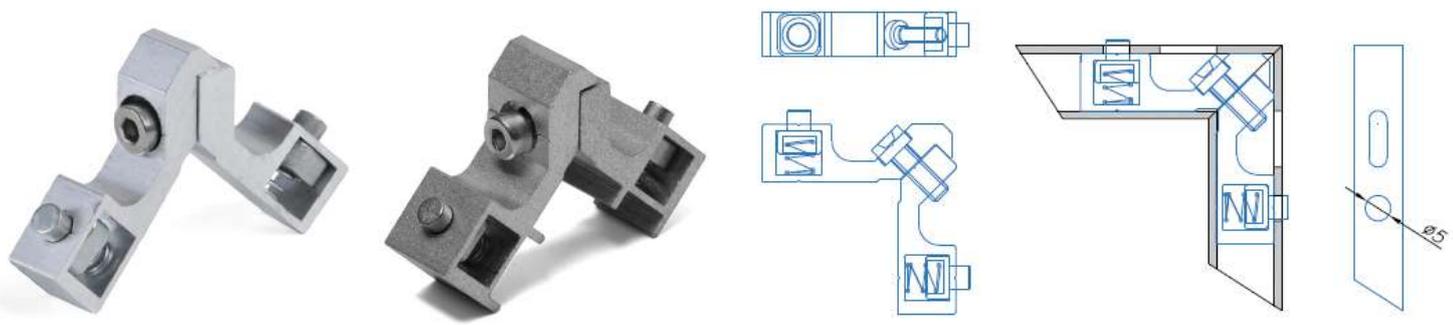


Punching machines



**E10
PIVOT CORNER JOINTS**

The 4.5 mm retractable pin adjustable lower nerves. Special for assembly profiles with double corner joints. The spring bracket with a reduced 4.5 mm pin allows the **Minimalist carpentry** assembly. Thanks to its lower ribs, it allows perfect adaptation to cameras with heights from 11 mm to 15.2 mm. Its retractable lug facilitates mounting inside the profile reduced dimensions. In addition, it is made of extruded 6063 aluminum, **avoiding the risk of corrosion**, especially in marine environments.



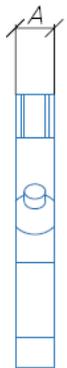
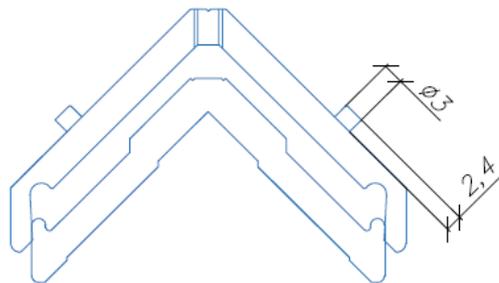
Other variants of corner joints:



-  100% recyclable aluminum
-  ease of assembly
-  suitable for marine environments
-  stainless screws
-  chamber width from 9 mm
-  chamber height from 11 to 23 mm (up to 45 mm adding supplement)

E49 LOCKING CORNER JOINT

The locking corner joint with reduced $\varnothing 3$ stud allows the assembly of **minimalist carpentry**. Its reduced pin **facilitates assembly** and machining of small dimensions. Furthermore, it is manufactured with 6063 extruded aluminum, **avoiding the risk of corrosion**, especially in marine environments.



100% recyclable aluminum



reduced pin of 3 mm



suitable for marine environments



stainless screws



chamber width from 5.5 mm



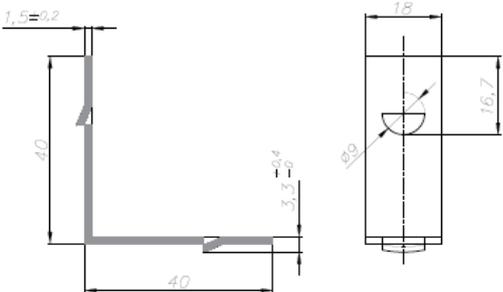
chamber height from 10.5 to 45 mm



**E02-P
PRESSURE ALIGNMENT
CORNER JOINT**

Specifically designed for low-profile chambers in aluminum sections and polyamide components. Its **"half-moon"** design generates internal pressure through a lug that locks the piece in place, preventing any movement after assembly.

- **Fast Assembly:** Eliminates waiting times for adhesive curing, making it ideal for shutter frames.
- **High Resistance:** Manufactured in aluminum to prevent corrosion in coastal areas and ensure mechanical durability.
- **Safety:** Its geometry facilitates insertion and acts as an anti-removal anchor.



 height between 2.5 and 4 mm

 width between 18 and 40 mm

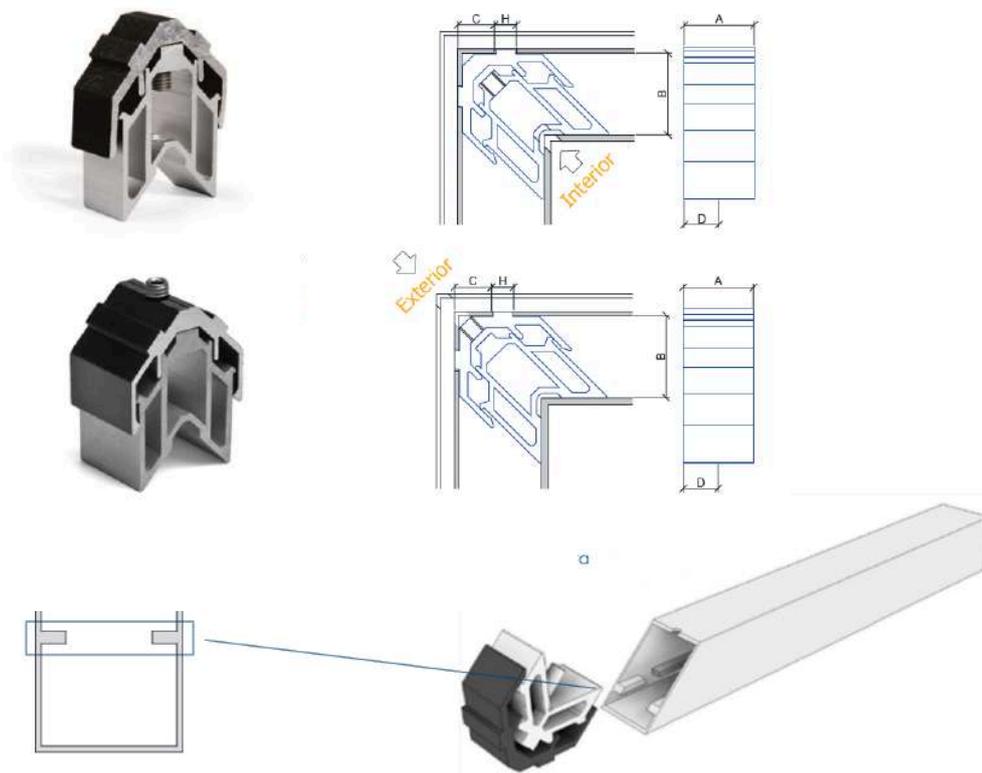


Application: Miter alignment and reinforcement in aluminum enclosures.



E00
HIDDEN CORNER JOINT

Thanks to this corner joint, there is the option of mechanizing the exterior area by adding a plastic plug. This machining is invisible and made for internal fastening. It is designed for systems with hidden mounting and is perfect to use it in kitchen cabinets, displays and hidden fixing profiles.



100% recyclable aluminum



invisible pin



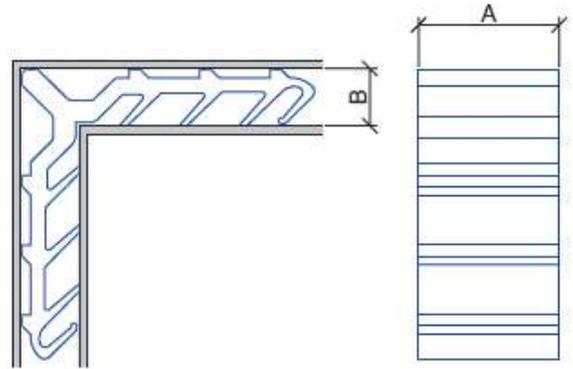
suitable for marine environments



stainless screws

E38 ASSEMBLY HOOK

This corner joint is specially designed for joining aluminum profiles by means of pressure. It is not necessary to use machinery to assemble it. The design of the corner joint allows an easy entry and prevents its disassembly.



100% recyclable aluminum



ease of assembly



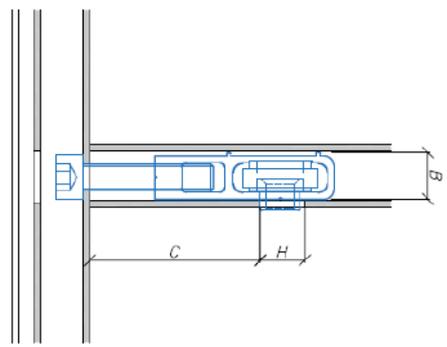
suitable for marine environments



high productivity in assembly



The T-joint with retractable pin allows the **assembly of the perimeter cross profile**, if adapts to the mechanization that the matrix does for the assembly of the blade with corner joints. Furthermore, it is made with extruded aluminum 6063, **avoiding the risk of corrosion**, especially in marine environments. Washer and hardware to be defined depending on the client's profile design.



 100% recyclable aluminum

 suitable for marine environments

 adaptable measures

 ease of assembly

 stainless screws

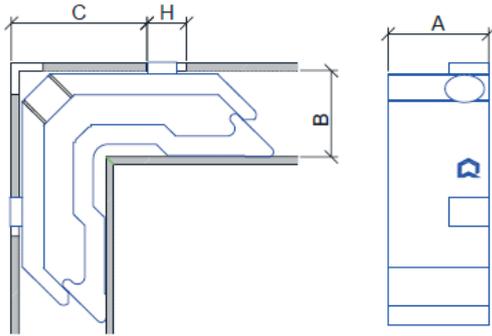
 optimized stroke distance



**E26 LAT
SIDE LOCKING**

The improvement of this corner joint consists of modifying the production process to obtain a milled lug side. This process allows us to obtain a corner joint with a more solid lug, therefore we obtain more resistance to breakage. It also allows avoiding lateral deformations in the pin, improving the previous corner joints.

The bridge where the milled lug is located has a fixed measurement of cut 13 mm. With this bridge design with standardized milling pin, we ensure a correct one operation of our carpentry profile corner joint.



100% recyclable aluminum



adaptable measures



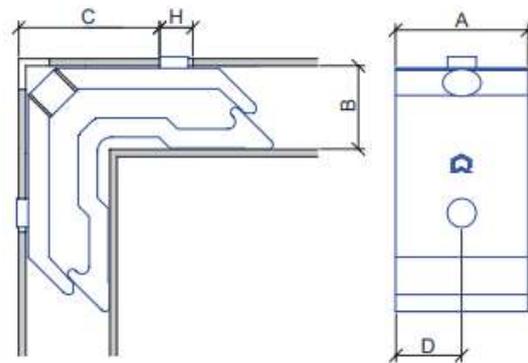
suitable for marine environments



increased lug strength

E26 LOCKING CORNER JOINT

This corner joint allows you to operate in chambers with reduced heights and widths. Adapted for current designs of **minimalist carpentry**.



100% recyclable aluminum



suitable for marine environments



adaptable measures

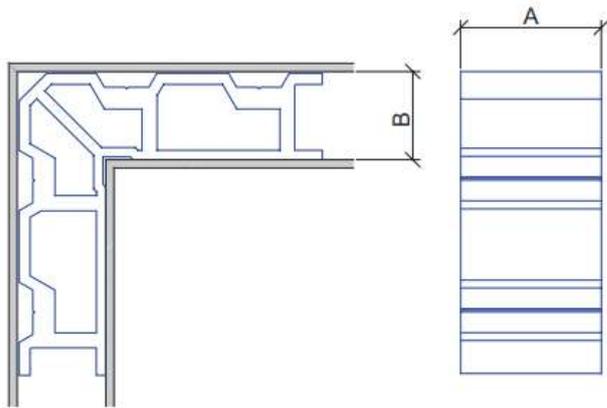


increased lug strength



E02
ASSEMBLY CORNER JOINT

This corner joint is special for joining aluminum profiles with an assembly machine. Furthermore, it is made with extruded aluminum 6063, avoiding the risk of corrosion, especially in marine environments.



100% recyclable aluminum



high productivity in assembly



chamber width from 5 to 100 mm

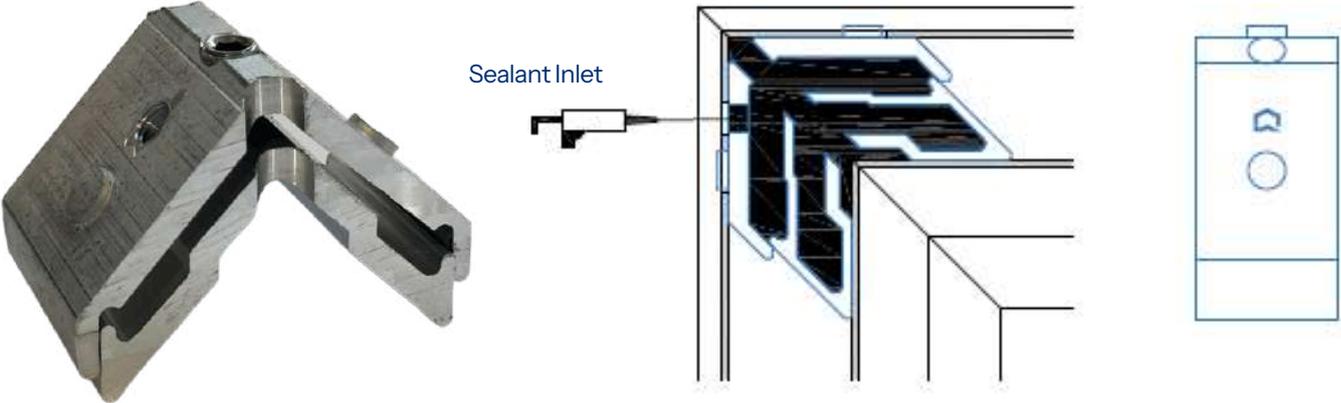


camera height from 5 to 35 mm



**LOCKING INJECTION
CORNER JOINT**

This locking corner joint has specific slots for injecting sealant, that allows a perfect **sealed with two components** after assembly, to reinforce its **resistance** and **improve** isolation.



100% recyclable aluminum



adaptable measures



suitable for marine environments



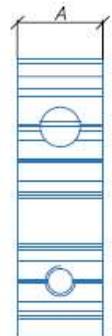
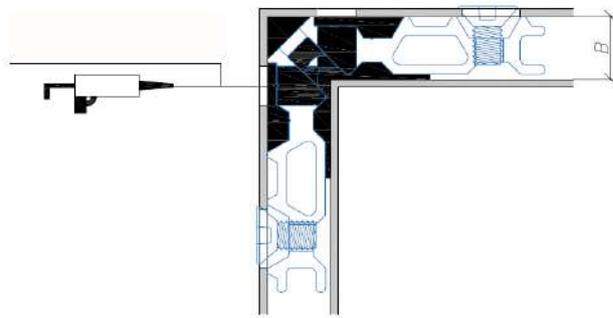
possibility of injecting sealant or twocomponent



Corner joint for assembly of aluminum profiles with 3 fixing options.

- **Assembly**, with the use of an automatic assembly machine
- **Screwed**, with manual assembly with screws or slug
- **Glued**, possibility of gluing with two components for greater reinforcement

In addition, it is made of extruded 6063 aluminum, **avoiding the risk of corrosion**, especially in marine environments. This corner joint is **perfect for maximizing assembly possibilities**, depending on the final workshop use.



width from 4.5 mm



versatility in options use



100% recyclable aluminum



assembly of profiles with slug



suitable for marine environments

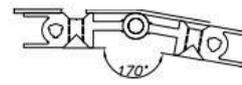
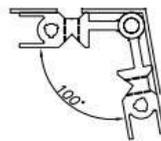
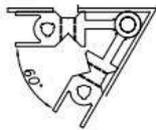
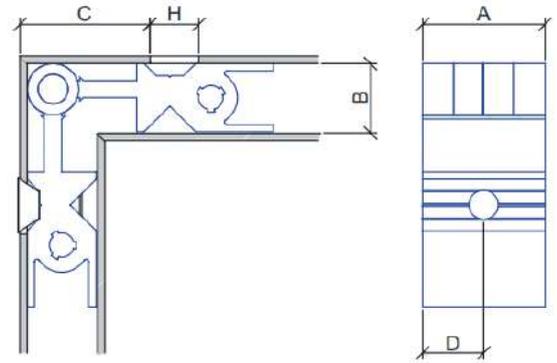


possibility of injecting sealant or bicomponent



**E12
ADJUSTABLE CORNER
JOINT**

The specific adjustable corner joint for windows **with unequal degrees**. Allows you to obtain from 60 to 180 degrees for the creation of windows with a unique shape.



dimension A, from 10 to 50 mm



100% recyclable aluminum



variety of angles

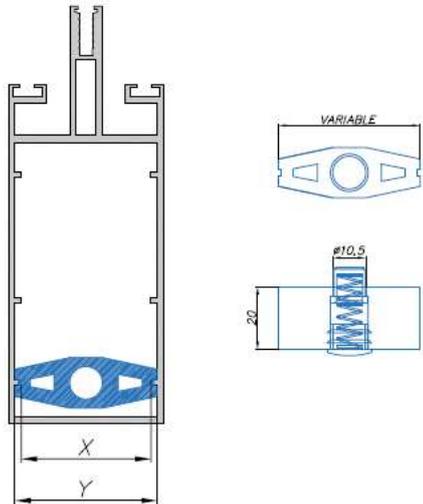


suitable for marine environments



ANTI-ROLL T-JOINT CURTAIN WALL

The wall union with retractable stud allows the assembly of the crossbars avoiding the rotation of the profile. In addition, it is made of extruded 6063 aluminum, avoiding the risk of corrosion, especially in marine environments. Placement on profile using pressure with a nylon hammer.



100% recyclable aluminum



suitable for marine environments



50 mm uprights/crossbars with inner nerves



retractable roof

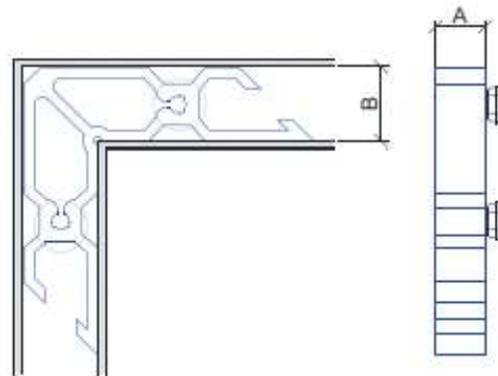
This union completes with our range anchors and accessories for curtain wall.





**E06
SIDE MOUNTING**

This side corner joint allows accessing from the side of the profile.
It is suitable for mounting furniture-type profiles with lateral fixing, such as kitchen cabinets.



100% recyclable aluminum



ease of assembly



suitable for marine environments

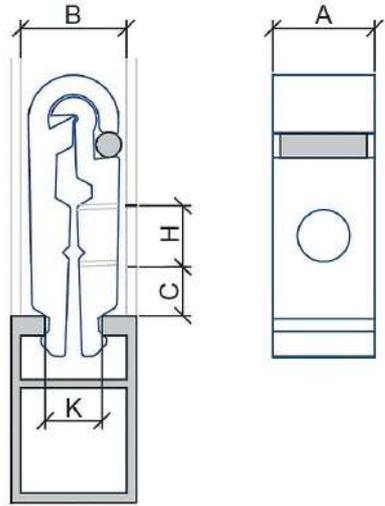


hidden hardware



U23
DIVIDING T-JOINT

The dividing T-joint allows the assembly of profiles for dividing offices, stands and LED boxes. In addition, it is made of extruded 6063 aluminum, **avoiding the risk of corrosion**, especially in marine environments.



100% recyclable aluminum



ease of assembly



suitable for marine environments



rubber E-85/4.5 silicone



dimension A, from 15 to 50 mm



5 and 9 mm channels



DESIGN AND TECHNOLOGY FOR ALUMINUM AND PVC SLIDING SYSTEMS



 **anudal**[®]

 **MANUFACTURAS
MENDAVIA**[®]

Bearings joints for aluminum carpentry



Adaptability

We design the bearing solution to fit your aluminum or PVC profile.



Flexible production batches

Flexible production batches tailored to customer and project needs.



High-quality components

We carefully select our suppliers to ensure full compliance with our standards. We prioritize local material suppliers to guarantee excellent service and production control. For our needle roller bearings, we rely on the renowned expertise of Schaeffler.



Customization

We understand the importance of market differentiation through your own brand. That's why we help you showcase your brand on our products, always backed by Mendavia Quality.



Load testing

In-house test bench for verifying bearing loads with the customer's profile.



Marine-grade (corrosion-proof)

Our bearings have been salt spray tested, ensuring optimal properties for use in saline environments without risk of compromising product performance.

E system

ecothermal

System where there is no metallic contact between the faces of the profile. The body of the casing is made of Polyamide 6 with fiberglass and the interior is made of zamak to be able to withstand the loads with a guarantee.

Z system

zamak

Based on zamak as a support material, it allows resistance and robustness to support the necessary weights depending on the choice of the type of wheel incorporated.

ER system

reinforced ecothermal

Ideal for carpentry with thermal break, thanks to its polyamide casing. Its zamak interior body and needle bushings allow support of up to 240 kg per sash, suitable for large sliding doors.

M-PVC system

milano for PVC

This system made of polyamide 6 with fiberglass adapts, according to reference, to the different PVC profiles on the market. It is a fixed casing with a dovetail that allows them to interlock with each other to achieve greater weight support.

Z-PVC system

zamak for PVC

Based on zamak as a support material, it allows resistance and robustness to support the necessary weights depending on the choice of the type of the incorporated bearing.



ECO-THERMAL SYSTEMS FOR ALUMINIUM JOINERY

 Ideal for thermal break aluminum systems

 Up to **200 kg per sash**

ADJUSTMENT AND LOAD CAPACITIES



Fixed ball bearing roller

 55 kg per sash



Adjustable ball bearing roller

 55 kg per sash



Adjustable tandem ball bearing roller

 110 kg per sash



Fixed needle bearing roller

 Up to 100 kg per sash



Adjustable needle bearing roller

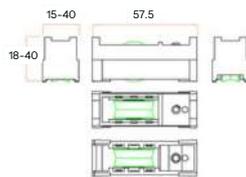
 Up to 100 kg per sash



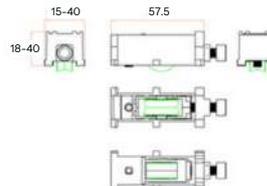
Adjustable tandem needle bearing roller

 Up to 200 kg per sash

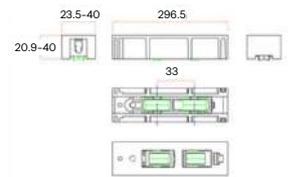
BODY DIMENSIONS



2.3 mm Adjustment



4.5 mm Adjustment



5.7 mm Adjustment

ADJUSTMENT

EXTERNAL MATERIALS

Body	Polyamide
Internal slide	Zamak 5
Fasteners	Stainless Steel

SUPPORT



Can be adapted to the profile's support design

INTERNAL MATERIALS

Wheel (needle bearing)	Ertacetal H
Axle (needle bearing)	Stainless Steel
Ball bearing	Nylon
Axle (ball bearing)	F-212 Iron
Balls	Stainless Steel

WHEELS

Ball bearings



Needle bearings



Premium needle bearings



*different bushing sizes available (0808,0810,1012...)

HIGH-PRECISION ZAMAK SYSTEMS FOR ALUMINIUM JOINERY



Traditional system with Zamak housing



Up to **200 kg per sash**

ADJUSTMENT AND LOAD CAPACITIES




Fixed ball bearing roller
 55 kg per sash




Adjustable ball bearing roller
 55 kg per sash




Adjustable tandem ball bearing roller
 110kg per sash



Fixed needle bearing roller
 100kg per sash

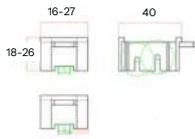


Adjustable needle bearing roller
 100kg per sash

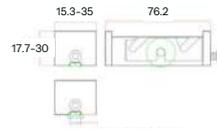


Adjustable tandem needle bearing roller
 200kg per sash

BODY DIMENSIONS

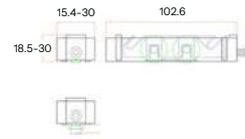


1.6 mm Adjustment



6 mm Adjustment

Small tandem roller



5,5 mm Adjustment

Large tandem roller



5,5 mm Adjustment

ADJUSTMENT

EXTERNAL MATERIALS

Body	Zamak 5
Internal slide	Zamak 5
Fasteners	Stainless Steel

SUPPORT



Adaptability to profile track designs

INTERNAL MATERIALS

Wheel (needle bearing)	Ertacetal H
Axle (needle bearing)	Stainless Steel
Ball bearing	Nylon
Axle (ball bearing)	F-212 Iron
Balls	Stainless Steel

WHEELS

Ball bearings



Needle bearings

Premium needle bearings



*different bushing sizes available (0608,0810,1012...)



REINFORCED ECOTHERMAL SYSTEM ALUMINUM JOINERY



Reinforced system for large-scale and heavy-duty windows



Up to **240 kg per sash**

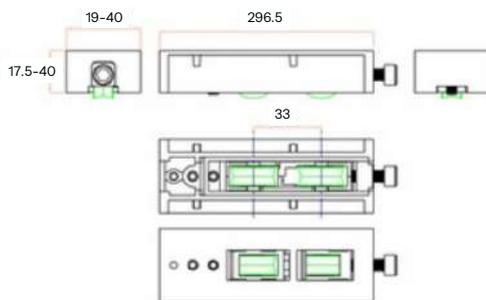
ADJUSTMENT AND LOAD CAPACITIES



Adjustable tandem needle bearing roller

240 kg/sash

DIMENSIONS RANGES



5,7 mm Adjustment

EXTERNAL MATERIALS

Reinforced housing	Poliamida
Body	Zamak 5
Internal slide	Zamak 5
Fasteners	Stainless Steel

SUPPORT



Adaptability to profile track designs

INTERNAL MATERIALS

Wheel (needle bearing)	Ertacetal H
Axle (needle bearing)	Stainless Steel

WHEELS

Premium needle bearings



*different bushing sizes available
(0608,0810,1012...)

ZAMAK SYSTEM PVC JOINERY

 Bearings adaptable to the different PVC joinery systems on the market

 Up to **180 kg per sash**

ADJUSTMENT AND LOAD CAPACITIES




Fixed ball bearing roller

 90 kg/sash




Adjustable ball bearing roller

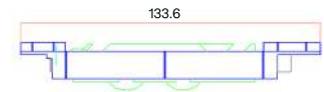
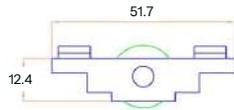
 90 kg/sash




Adjustable tandem ball bearing roller

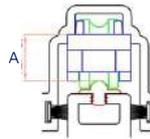
 180 kg/sash

EXTERNAL BODY DIMENSIONS



HEIGHTS

Ability to adapt to the different profile heights on the market (A)



EXTERNAL MATERIALS

Body	Zamak 5
Internal slide	Zamak 5
Fasteners	Stainless Steel

SUPPORT



Adaptability to profile track designs

INTERNAL MATERIALS

Wheel (needle bearing)	Ertacetal H
Axle (needle bearing)	Stainless Steel

WHEELS

Premium needle bearings



*bushing 0608

MILANO SYSTEM PVC JOINERY

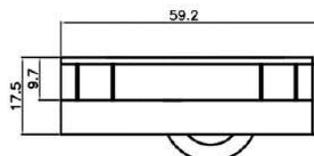
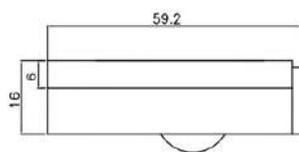
 **Stock Simplification.** It is possible to overlap the Bearings thanks to their dovetail interlocking system, adding load support to the sash based on the number of overlapped units.

 Up to **270 kg per sash**

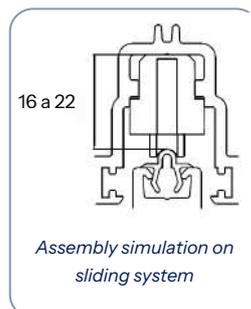
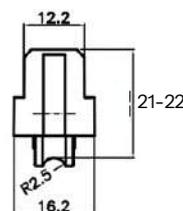
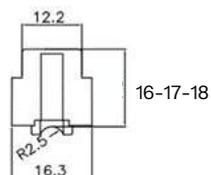
ADJUSTMENT AND LOAD CAPACITIES



EXTERNAL BODY DIMENSIONS



HEIGHTS



EXTERNAL MATERIALS

Body **Poliamida**

SUPPORT



Adaptability to profile track designs

INTERNAL MATERIALS

Wheel (needle bearing) **Ertacetal H**

Axle (needle bearing) **Stainless Steel**

WHEELS

Premium needle bearings



*bushing0608

**In special cases, a ball bearing roller can be evaluated for profile heights H21-22



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