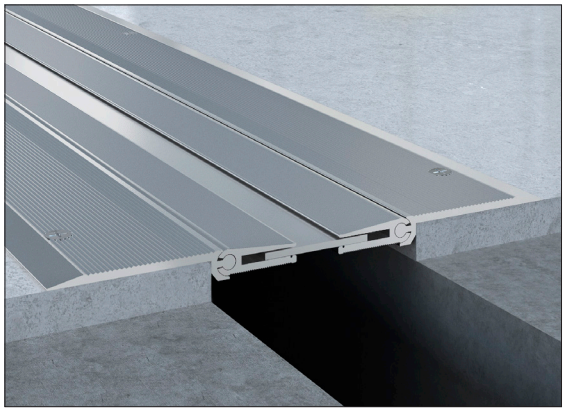


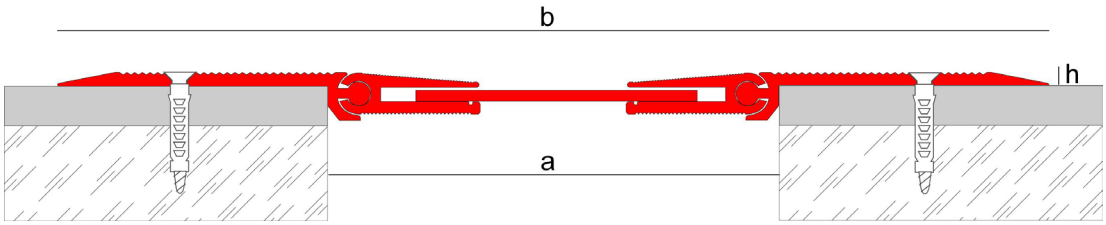
Novojunta® Pro Metal SP100

Ocasional

Novojunta® Pro Metal SP100 is a system of profiles entirely made of aluminum to be installed in overlaid expansion joints up to 100 mm width. Allows multidirectional movements thanks to its design, with ball-and-socket joint system on the side pieces. The size of the side pieces is enough to be safely installed in floorings with the screws supplied. With the visible side striated, is perfect for areas with high traffic thanks to its good resistance of heavy loads and wear resistance. Available with perimeter version.

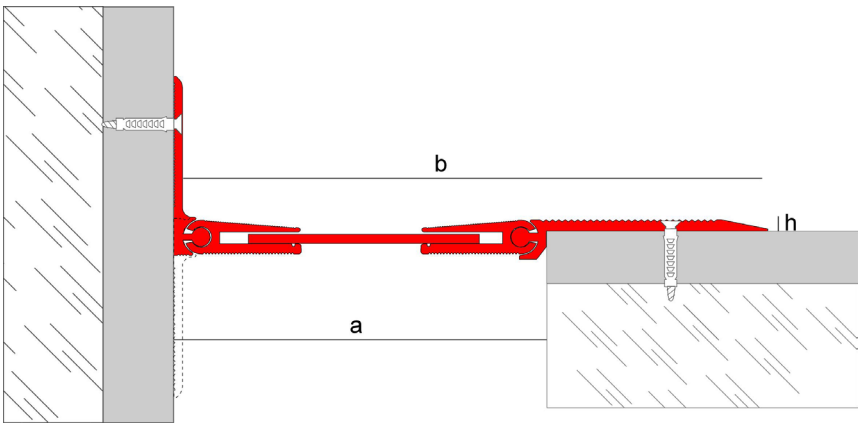
General Features

Material:	Natural aluminum
Length:	2,5 ml



Reference	Joint width (a):	Visible width (b):	Profile height (h):	Horizontal movement	Vertical movement
NJPMSP100NA	100 mm	240 mm	3,60 mm	30 mm (+20/-10)	16 mm (+/-8)

Novojunta® Pro Metal SP100 has a special piece available for perimeter installations.



**The perimeter piece has two installation possibilities*

Reference	Joint width (a):	Visible width (b):	Profile height (h):	Horizontal movement	Vertical movement
NJPMSP100NAP	100 mm	170 mm	3,60 mm	30 mm (+20/-10)	16 mm (+/-8)

Applications

The buildings and constructive elements are under strains caused by thermal variations. The installation of expansion joints helps to minimize the effects that these variations cause in the whole building, preventing a possible structural damage.

The **CTE (Spanish Technical Building Code),** in the DB-SAE (Document about actions in building), states that in steel or concrete buildings is necessary not to let continuous elements longer than forty meters without installing expansion joints.

Novojunta Pro® Metal SP100 is a solution for structural expansion joints consisting of aluminium sliding pieces. This profile absorbs stresses and strains caused in constructive elements, preventing this way from cracking or other pathologies. Suitable for its installation both in floorings and in walls.

Novojunta® Pro Metal SP100 has been designed to be installed in finished floorings, so it is a perfect choice for rehabilitation or reform works or in projects where the expansion joint was not taken into account.

Materials

Novojunta Pro® Metal SP100 is a system of profiles entirely made by aluminum extrusion. The aluminum is a raw material with excellent chemical and physicomechanical properties. It is light, tough, ductile, malleable and highly durable. It has a great resistance to fire and corrosion.

Aluminum is a high valued raw material and it is widely used in several sectors, specially construction. Its transformation processes are multiple, so it can get very different geometries with high performance. This is a recyclable material.

Technical Features

Alloy	6063 - T6
Fire resistance	M0 (UNE 23-727-90)
Load to break R_m (N/mm²)	215
Elastic limit (N/mm²)	170
Elongation A min (%)	8
Brinell hardness (HB)	75
Conformability	Very good
Corrosion resistance	Very good

Load support

Novojunta® Pro Metal SP100 can support light and medium loads, which means that allows pedestrian and vehicular traffic. Allows the traffic of vehicles with pneumatic wheels (DIN 1072) up to 50 kN and occasionally forklifts (DIN 1055).

Installation

The reference Novojunta® Pro Metal SP100 is delivered **mounted** with protective film on the surface. This profile is to be installed on finished floorings.

The structural joint width is a requirement that **should be specified in the project.** Be sure that the profile you choose fulfills the prescribed features.

To install the profile follow these steps:

1. Be sure the surfaces to install the Novojunta Pro® Metal SP100 are free from dust and grease.
2. Place the profile on the joint hollow and slide the side pieces until they knock into the joint edges. The central pieces should be in a centered position and allow free movement.
3. Fix the profile with the screws using the holes on the fixing wing. The screws must be totally flush to the surface of the profile.
4. Remove the leftover material

Keep the protective film to protect the profile until the work is finished. Please, note that the overlapping profiles should be installed fitting the joint width indicated. Installing them on wider or narrower joint widths will interfere with the movement capacity and, in consequence, with its correct functioning.

The load support is referred to punctual traffic. **Loads should not be deposited directly on the surface of the profile** for a long time as they could cause irreparable damage that would limit the functionality of the profile**.**

Cleaning and maintenance

The cleaning must be done periodically with water and a neutral liquid cleaner. You must rinse the profile with cold water and dry to remove excess moisture. If dirtiness persists, you can clean the profile with slightly abrasive cleaners. Steel wool, abrasive cleaners, souring products as well as strong acids (hydrochloric and perchloric),strong bases (caustic soda or ammonia) or carbonated solutions are not recommended. Citric acid is neither recommended because disolves the protective layer of the surface of aluminium. Waxes, petrolatum, lanolin or similar substances are not appropriate. Solvents containing haloalkanes (hydrofluoroether and chlorinated solvents) and curing accelerators containing chlorides should not be used (use special accelerators free of chlorides)

Be sure that you carry on a **periodic cleaning** and maintenance to prevent the accumulation of dirt on the surface of the profile as it would block the free movement of the profiles limiting their functionality.

Technical information

You can find out more information about the technical features of the Emac®'s products by downloading its Technical Files in **www.emac.es.**

If you have any query, please contact our Technical Department in **tecnico@emac.es.**

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