



## Novojunta® Pro Metal 100



Novojunta® Pro Metal 100 is a system of profiles intended to be installed in structural expansion joints. Its design allows it to absorb thermal and multidirectional movements, having the ability to move in the three axis. With striated visible side and heavy load support, it is an excellent option for areas with intense traffic. It is delivered pre-assembled, with installation spacers and protective film.

### 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.



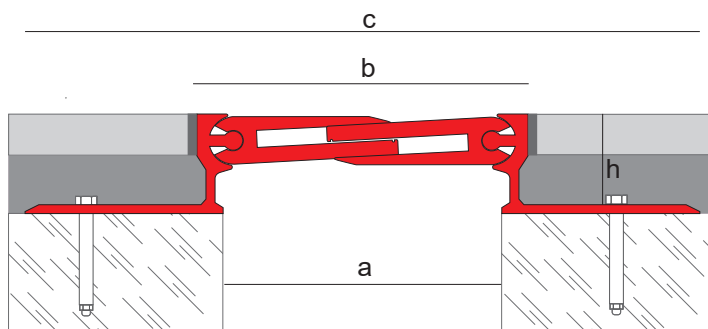
**Novojunta® Pro Metal 100** is a solution for expansion joints consisting of aluminum sliding pieces. This profile absorbs stresses and strains caused in constructive elements, preventing this way from cracking or other pathologies. Suitable for its installation in floorings.

**Novojunta® Pro Metal 100** has a striated visible side which gives it antislip properties, suitable for floorings. Its excellent load support makes it perfect for heavy load traffic, fulfilling the most demanding requirements.

## General Features



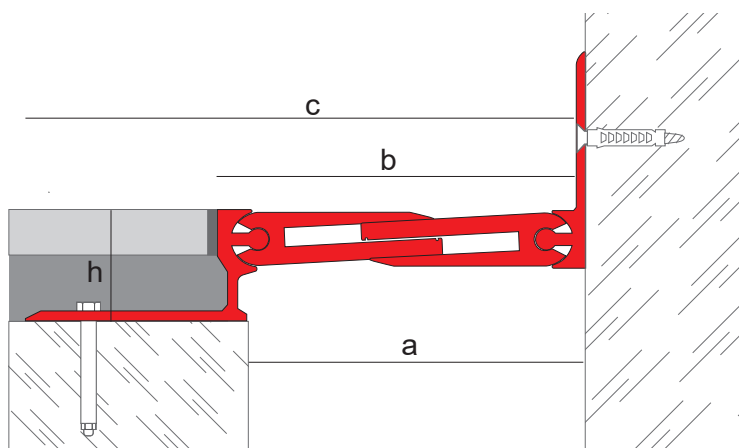
Material:	Aluminum 6063-T6
Length:	2,5 ml
Finishes:	Natural



Reference	Height (h):	Joint width (a):	Visible width (b):	Total width (c):	Movement allowed
NJPM100AL22NA	22 mm	100 mm	117 mm	233 mm	Horiz.: +23/-20 mm Vert.: +/- 25 mm
NJPM100AL35NA	35 mm	100 mm	119 mm	240 mm	
NJPM100AL50NA	50 mm				
NJPM100AL80NA	80 mm				

## Perimeter piece

Novojunta® Pro Metal 100 has a special piece available for perimeter installations.



Reference	Height (h):	Joint width (a):	Visible width (b):	Movement allowed
NJPM100AL22PER	22 mm	108 mm	114 mm	Horiz.: +23/-20 mm Vert.: +/- 25 mm
NJPM100AL35PER	35 mm			
NJPM100AL50PER	50 mm			
NJPM100AL80PER	80 mm			

### Technical Features

Alloy	6063 - T6
Fire resistance	M0 (UNE 23-727-90)
Load to break $R_m$ (N/mm <sup>2</sup> )	215
Elastic limit (N/mm <sup>2</sup> )	170
Elongation A min (%)	8
Brinell hardness (HB)	75
Conformability	Very good
Corrosion resistance	Very good

### Materials

**Novojunta® Pro Metal 100** is a system of profiles entirely made by aluminum extrusion. The aluminum is a raw material with excellent chemical and physicomachanical 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.

### Load support



**Novojunta® Pro Metal 100** supports heavy loads, which means that allows pedestrian and vehicular traffic. Allows the traffic of vehicles with pneumatic wheels up to 30kN/wheel and forklifts with load per wheel of 420 kg (\*)

(\*) Data obtained through simulation with finite element method in collaboration with the AIDIMME Metalworking Technological Institute. Test No. 22002043. Available for consultation.

### Installation

**Novojunta® Pro Metal 100** is delivered **pre-assembled** for an easy installation. It is delivered with protective film and metallic omega pieces that keep the profile in its optimal position for the installation.

1. Clean the surfaces to install the Novojunta® Pro Metal 100
2. Place the profile over the expansion joint, without removing the metallic omega pieces supplied.
3. Fix the profile with screws starting by the sides, and then continue with the rest of the fixing screws putting them alternately each 30 cm (6 per meter). Use the screws supplied.
4. Once the profile is correctly positioned and fixed, remove the metallic omega pieces and continue the work until the flooring is finished.

Novojunta® Pro Metal 100 is a profile designed for joint widths **equal or minor than 100 mm**. **Never** install the profile in larger widths.



## Cleaning and maintenance

The cleaning must be done periodically with a soft mop. If you use a neutral liquid cleaner, you must rinse the profile with cold water and dry to remove excess moisture. If dirtiness persists, clean the profile with a solution with clean water and detergent or neutral soap 5%, brushing with a mop with no particles that could scratch the finish. Outdoors, rainfall will clean the profile.

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 it dissolves 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).

## 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](http://www.emac.es)**.

If you have any query, please contact our Technical Department in **[tecnico@emac.es](mailto:tecnico@emac.es)**.



Outdoors



Indoors



Flooring



Recyclable