

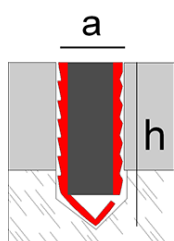


Novojunta® Metallic Arrow



Novojunta® Metallic Arrow is a solution for expansion joints consisting in two aluminum profiles with a central body made of high quality EPDM rubber. The excellent properties of EPDM, allow Novojunta® Metallic arrow to absorb expansion and contraction movements, avoiding the apparition of pathologies. It is available in a wide range of heights and different widths. It is delivered with protective film on its visible side, to avoid possible damage caused during handling or transport.

General Features



Material: Aluminum + EPDM rubber

Length: 8ft2in / 2.5 l.m.

Packaging: 10 u./box or 20 u./box

Color:



Dimensions:

h:	inches	1-1/35"	1-3/8"	2"	2-9/16"	3-11/32"	4-15/16"
	mm.	26	35	50	65	85	125
a:	0-7/16"						
	11 mm.						
A.M.	+1.2 / -3.5 mm.						
	+0.047" / -0.138"						

A.M.: allowed movement

Applications

Novojunta® Metallic Arrow is a solution for expansion joints whose main function is to absorb expansion and contraction movements from walls and floors to avoid the apparition of pathologies in the installations. It can be installed vertically and horizontally both walls as floors.

Technical Features and Tests

Fire resistance	M4	UNE 23-727-90
Abrasion resistance	Very good	
Working temperature	-10°C / 60°C	
Water absorption	< 5	ASTM D1056 - 00 AIMPLAS
Ozone resistance	Yes	
Free of CFC		

Materials

Aluminum

The lateral pieces of Novojunta® Metallic Arrow consist in two profiles made by aluminum extrusion natural finish.

Aluminum is a material with excellent chemical, physical and mechanical properties. It is lightweight, tough, ductile, malleable and highly durable.

EPDM

The central body of Novojunta® Metallic Arrow is made of high quality EPDM rubber. EPDM is an elastomer polymer with excellent mechanical properties. It has good resistance to abrasion, wear and impact, is a good insulator, and resists weathering, common chemicals and has a wide working temperature range.

Its excellent compression set is the most important to absorb the deformations and geometric variations of constructive elements.

Installation recommendations

Emac®, in his awareness for the correct execution of the ceramic systems, took part in the committee for the elaboration of the UNE 138002: 2017 standard "General rules for the execution of ceramic tile systems by adhesion". In that UNE standard the recommendations of installation for expansion joints were defined as follow:

Installation	Separation distance / Area	Joint width (mm)
<i>Linear expansion joints</i>		
<i>Outdoor walls</i>	Each 3 - 4 ml max. Regular areas max. 16 m ²	≥ 8 mm
<i>Outdoor floors</i>	Each 2,5 - 5 ml max. Regular areas max. 16 m ²	
<i>Indoor floors</i>	Respect open contraction joints Each 8 ml maximum Regular areas max. 40 m ²	≥ 5 mm
<i>Singular points</i>	Door treshold Floor changes	≥ 8 mm
<i>Perimeter expansion joints</i>		
<i>Indoor walls</i>	Perimeter joints Wall / Ceiling Wall / Wall	≥ 5 mm ≥ 8 mm
<i>Outdoor walls</i>	Indoor / outdoor edges	≥ 8 mm
<i>Indoor floors</i>	Perimeter joints and encounters with elements	
<i>Outdoor floors</i>	Perimeter joints and encounters with elements	
<i>Singular points</i>	Encounter joints with joinery	≥ 5 mm

These recommendations are the minimum dimensions to take into account. The particularities of each project could make necessary to place the joints at less distance. The expansion joints should be planned since the project phase. The correct design and dimensionement of the expansion joints, together with an adequate choice of materials and a correct installation execution, will help to prevent from the apparition of pathologies.

Calculating thermal variation

Novojunta® Metallic Arrow is available in different heights but have the same width, so all models will have the same performance under the same thermal variation.

We'll take, for example, Novojunta® Metallic Arrow, 26 mm. height and 11 mm. width.

a	Expansion/contraction movements	Total movement
0-7/16" - 11 mm.	+0.047" / -0.138" / +1.2 / -3.5 mm.	0.187" / 4.7 mm.
¹ Thermal variation calculated considering an outdoor installation with coefficient of thermal expansion 0.007mm*°C/m. with the joints placed to a maximum distance of 16.40ft (5 l.m.).	¹ The considered installation allows an expansion movement equal to an increase of 126°F (52°C) counting from the temperature of installation and a contraction equal to -126°F(- 52°C) counting from the temperature of installation. Total thermal variation: 219°F / 104°C	
¹ Thermal variation calculated considering an outdoor installation with coefficient of thermal expansion 0.007mm*°C/m. with the joints placed to a maximum distance of 26.24ft (8 l.m.).	¹ The considered installation allows an expansion movement equal to an increase of 90°F (32°C) counting from the temperature of installation and a contraction equal to -90°F(-32°C) counting from the temperature of installation. Total thermal variation: 147°F / 64°C	

The correct calculation of this is highly important to distribute and dimension the expansion joints in a correct way. From our Technical Department, as specialists in expansion joints, we offer advice for the calculation of the expansion joints of your project with no compromise.

Please, contact us in tecnico@emac.es and we'll offer you a custom solution depending on the features of your project.

Installation

1. Spread a big amount of thin set mortar on the floor.
2. Tile the floor. You can install tiles in all the floor, keeping holes for the profile or you can install tiles until the place where you're going to install Novojunta® Metallic Flecha.
3. Apply adhesive on both sides of Novojunta® Metallic Flecha and fix it to the tiles previously installed.
4. Continue tiling the floor. You can repeat this everytime you need.
5. Finally clean the remaining material, remove the protective film if necessary and let dry.

* If you're going to polish the floor, install this profile slightly below it.

Cleaning and maintenance

You can clean Novojunta® Metallic Flecha with a soft mop dampened with water or with a solution with neutral detergent 5%. The correct use of bleach, 10%, does not affect the material.

Do not use acid concentrated cleaners to clean the profile or abrasive tools which could cause damage. It is not recommended the installation of this profile in places with oil or hydrocarbons spills because they could affect the profile.

Technical information

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

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



Outdoors



Indoors



Wall tiling



Flooring

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