Novo**junta ASTRA® Maui**

Profile for expansion joints made of our exclusive material ASTRA®, an extra resistant polymer and a central flexible body made of EPDM. It is an ideal solution for exteriors with the possibility of bending, which multiplies its installation possibilities.

The different combinations of colors of Novojunta ASTRA® Maui, fit with the latest trends and make it suitable to be installed in any environment. Novojunta ASTRA® Maui absorbs the movements of the flooring, helping to prevent cracks and damage without losing sight of its integration into the ceramic system thanks to its trendy colors.

Applications

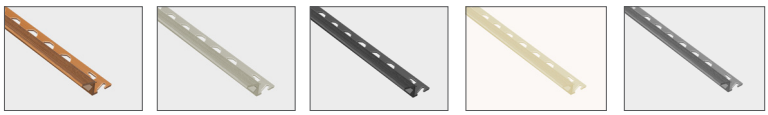
Novojunta ASTRA® Maui is a solution for expansion joints whose main function is to absorb expansion and contraction movements proceeding from floorings or tiled walls to avoid the apparition of pathologies. It can be installed vertically and horizontally in floorings or tiled walls.

TECHNICAL DATA SHEET
Novo**junta ASTRA® Maui**

General Features

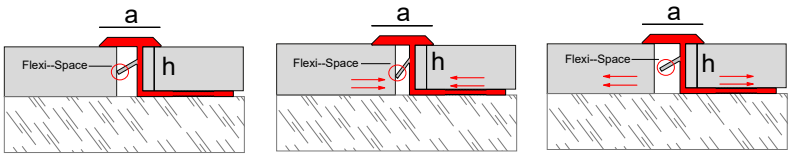
Patent pending

Material:	ASTRA® + Flexi--Space
Length:	8ft2in / 2,5 l.m.
Dimensions:	a: 11/16" (17 mm) h: 1/2" (12 mm)
Packaging:	30 u./box
Finishes:	



Cinnamon - 163 | Cement - 164 | Black - 165 | Almond - 168 | Ash - 170

Movement:	1/4" (+/-1/8") 6 mm (+/- 3 mm)



Technical Features and Tests

LABORATORIO CARPI

Moisture resistance	Excellent	
Tensile strength	Excellent	
Impact resistance	Very good	
Appearance and color	Stable	
Chemical resistance - Ammonium chloride (household cleaner) - Sodium hypochlorite (swimming pools) - Hydrochloric acid low c. (3% v/v) - Citric acid low c. (100 g/l) - Pottasium hydroxide low c. (30 g/l) - Hydrochloric acid high c. (18% v/v) - Lactic acid high c. (5% v/v) - Pottasium hydroxide high c. (100 g/l)	Partial immersion. No visible effects in any of the samples.	UNE-EN-ISO 10545 Parte 13:2017
Water absorption	0,2 %	UNE-EN-ISO 10545-3
Frost resistance	No damage after 100 cycles	UNE-EN-ISO 10545-12
Stain resistance - Chromium oxide stain in light oil - Alcoholic iodine solution stain - Olive oil stain	In all cases, the stain has been removed with running hot water for 5 minutes	UNE-EN-ISO 10545-14

Materials

The Emac®'s ASTRA® material is an extra resistant polymer specially developed to obtain the best benefits in all kind of environments. Not only indoors but also in submerged or humid environments or outdoors. Thanks to the addition of biocides, which prevent from mold growing, it stands stable in humid and submerged environments. This material has a great impact resistance, improved in the formulation with several additives and a perfect balance of mineral reinforcer, which allows its use in floorings with guarantees.

The colors available are stable and durable, thanks to the studied dosage of maximum solidity dyes, preserving its appearance along the time. Astra® is the result of the constant innovation in Emac®, always working to offer highly functional and decorative products.

Tips of installation

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

These recommendations are the minimum dimensions to take into account. The particularities of each project may make it necessary to place the joints at a shorter distance or in another arrangement. Pavement joints must be taken into account from the design phase. The correct design and dimensioning of the joint pattern, together with an adequate choice of materials and correct execution of the installation will help prevent the appearance of pathologies.

Installation

1. Spread a big amount of thin-set mortar on the surface to be tiled.
2. Then, place the profile and press it to let the thin-set mortar pass through the holes of the fixing wing.
3. Place one tile on the fixing wing and press it to get an optimal joint between the thin-set mortar and the profile. Be sure that the edge of the tile is covered and protected by the profile.
4. Place carefully the opposite tile until it butts against the **Flexi--Space. Do not press hard** against the spacer, as you may compress it and lose functionality. It must be in neutral position. Make sure that the adhesion material does not fill in the joint or the Flexi--Space, as they must be free to allow movement.
5. Finally, clean the leftover material, remove the protective film and let dry.

The functionality of the profile **is conditioned to its correct installation**. The spacer **Flexi--Space** must be kept in a neutral position, with the ceramic supported but not pressed, as shown in fig.1. Should the tiles expand, **Flexi--Space** will compress, absorbing the movement (fig.2). In the event of tiles contraction, **Flexi--Space** will remain in the same position and the upper trim will cover the tile displacement (fig.3).

The joint gap must be kept free to allow movement. Accumulation of dirt or the filling with adhesion material can compromise the function of the joint.

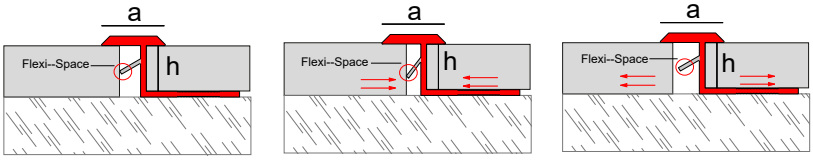


Fig.1 *Fig.2* *Fig.3*

Cleaning and maintenance

ASTRA® is resistant to most of the common cleaners, although is recommended cleaning it preferably with neutral cleaners and water. The correct use of bleach does not affect it and it is resistant to the most common acids. If you need to clean the striated surface deeply, you can use a brush to clean.

It is not recommended using organic solvents suc as ethyl acetate, acetone or tolueno, so they could damage the surface appearance.

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**.