

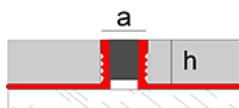


Novojunta® Metallic Brass



Novojunta® Metallic is a solution for expansion joints consisting in two brass profiles with a central body made of high quality EPDM rubber. The excellent properties of this EPDM rubber, allow Novojunta® Metallic Brass to absorb expansion and contraction movements proceeding from floorings and help to prevent the apparition of several pathologies. It is available in a wide range of heights and different widths and delivered with protective film on its visible side to avoid damage during handling and transport.

General Features

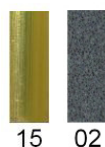


Material: Brass + EPDM rubber

Length: 8ft2in / 2,5 m.l.

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

Color:



Dimensions:

| | | | | | |
|---------------|------------------|------|------|-------|------|
| h: | 8 | 10 | 12.5 | 15 | 20 |
| | 5/16" | 3/8" | 1/2" | 9/16" | 3/4" |
| a: | 8 | | | | |
| | 5/16" | | | | |
| M.A.: | +1/-2 | | | | |
| | +0.039 / -0.079" | | | | |
| M.T.A: | 3 | | | | |

M.A: Movement allowed. M.T.A: Total movement allowed.

Applications

Novojunta® Metallic Brass 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 Features and Tests

Alloy: CU ZN40 AL Pb1 selon la norme NF EN 51-105

Fire resistance: M0 (UNE 23-727-90)

Materials

Brass Brass is an alloy of copper and zinc which has multiple industrial applications. It is easy to machine, engrave and melt. It is resistant to corrosion, saline conditions and it is ductile, so it can be transformed in several ways.

All Emac®'s brass profiles have been made by extrusion, obtaining so a highly accurate dimensional tolerance which guarantees the optimal appearance and functionality of the profile.

EPDM The central body of Novojunta® Metallic Brass 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 main feature in absorbing 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.

Calculation of thermal variation

Novojunta® Metallic Brass is available in different heights and widths so each model will have different performance and will support different thermal variation.

For example, we'll take the example of Novojunta® Metallic Brass h:10 mm. This profile has a visible side of 8 mm. and absorbs a total movement of 3 m. (+1 / -2 mm.)

| a | Expansion/contraction movements | Total movement |
|---|---|------------------|
| 5/16" - 8 mm. | +0.039" / -0.079" +1 / -2 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 125.6°F (52°C) counting from the temperature of installation and a contraction equal to -61.6°F(- 52°C) counting from the temperature of installation. Total thermal variation: 219.2°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 89.6°F (32°C) counting from the temperature of installation and a contraction equal to -25.6°F(-32°C) counting from the temperature of installation. Total thermal variation: 147.2°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 customized solution depending on the features of your project.

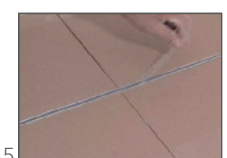
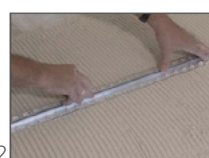
Installation



To see the video, capture this image with your mobile phone (QR code reader software is necessary) or click on it.

1. Spread a big amount of thin-set mortar on the surface to be tiled.
2. Then, place the profile and press it so the thin-set mortar could pass through the holes of the anchoring wing.
3. Place one tile over the anchoring wing and press it to get an optimal joint between the thin-set mortar and the profile.
4. Repeat the last step placing tiles along the profile (both sides) until the installation is finished. Before it cures, hit softly with a rubber hammer to align the profile with the tiles.
5. Finally, clean the leftover material, remove the protective film and let dry.

* If you're going to polish the flooring, install this profile slightly below the tile to avoid possible damage.



Cleaning and maintenance

The Brass, in a natural form, acquires a dull brown color when in contact with air. To its cleaning there are several products in the market which can be used, even though sometimes can be cleaned with natural acid brushing with lemon and salt. Some of these products are:

- *Polishers*: Maintain the brass brilliance. These products does not leave any smell in the hands and are easy to use. For its application, moisten a cloth with the product and brush the profile until the superficial discolored layer is removed. Then, use a dry cloth to a perfect finish
- *Shine recoverers*: These products recover the shine of pieces made of brass partially oxidized. Given that they can blacken the hands, is necessary to follow the detailed instructions of use. There are versions with high content in Silicon which are more effective than normal.
- *Deoxidizing*: It recover pieces highly oxidized or oiled. These are very strong and corrosive products whose instructions of use must be strictly followed. It is recommended their use in combination with a fine steel wool to help stripping, being careful not to make much pressure for not scratching material. After using the product, you can use a shine recoverer or polisher to a better finish.
- *Varnishes*: Are specific products for these metals which cover the material to avoid the loss of appearance of its surface due to oxidizing.

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.



Emac Complementos S.L. (Spain) info@emac.es // Emac America L.L.C. (FL,USA) info@emac-america.com // Emac Italia S.R.L. (Italy) info@emac-italia.it

www.emac.es

*The data provided are for information only and have been obtained by our supplier or Emac®.
Does not constitute legal guarantee in terms of properties and / or functionality of the application of material*