

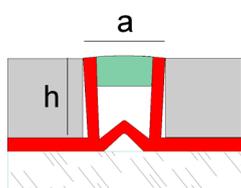
Novojunta Lúmina®



Novojunta Lúmina® is a solution for expansion joints whose face side is provided with photoluminiscent particles. This way this joint fulfills with its function, absorbing movements of floor and wall tiling and, also, works as support of emergency signals when lights up. Ideal for its installation in public areas such as hotels, hospitals, supermarkets, malls, etc.

General Features

Reg. 1668435-1 / 1668435-2



Material:	PVC + Photoluminiscent particles
Length:	8ft2in / 2,5 l.m.
Dimensions:	h: 5/16", 3/8", 1/2" 8/10 /12 mm. a: 5/16" / 8 mm.
Packaging:	50 u./box
Finishes:	09 - Jasmin ivory

Applications

Novojunta® Lúmina is a solution for expansion joints with photoluminiscent particles, which absorbs movements of expansion and contraction and acts as support of emergency signaling. It can be placed vertically and horizontally, both floor or wall tiling, in outdoors or indoors.

Materials

PVC

Novojunta Lúmina® is a profile made by coextrusion of PVC-P (rigid PVC) and PVC-U (flexible PVC). PVC-U allow the profile to absorb expansion and contraction movements from floor and wall tiling where is installed and PVC-P is suitable, by its rigidity, to the support of the tile.

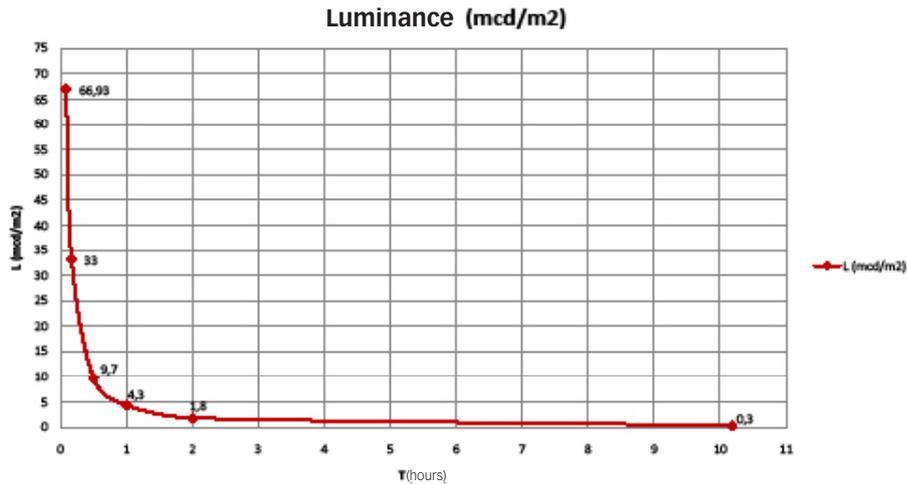
El PVC (polyvinyl chloride), is a polar amorphous thermoplastic polymer highly resistant to abrasion, corrosion and a wide range of chemical products. Has a good resistance to impact, low water absorption, low electrical conductivity and is dimensionally stable.

** You can amplify information by consulting the Technical Files of the materials in www.emac.es*

Technical Features and tests



Fire resistance	M2 (NBE-CPI-96)	
Abrasion resistance	Very good	
Working temperature	14°F (-10°C) / 140°F (60°C)	
Chemical agents resistance	Good except with chromic and sulfuric acid and organic solvents as acetate and toluene.	AIM-PLAS
Load tension/compression	Tension: 379 N. Compression: 10000 N.	AIMME
Photoluminescence	High durability (*see graphic below).	AIDO



Movement allowed

Due to the coextrusion of rigid and flexible PVC, this profile is able to absorb contraction and expansion movements from floor or wall tiling where is installed. The movement it allow is the following:

a	Mov. expansion/ contraction	Total movement
0.314" 8 mm.	+ 0.039"/+ 1mm. - 0.157" / - 4 mm.	0.196" 5 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 237,2°F (114°C) counting from the temperature of installation and a contraction equal to -20,2°F (-29°C) counting from the temperature of installation.

Total thermal variation: 289,4°F / 143°C

² 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.).

² The considered installation allows an expansion movement equal to an increase of 159,8°F (71°C) counting from the temperature of installation and a contraction equal to -0,4°F (-18°C) counting from the temperature of installation.

Total thermal variation: 192,2°F / 89°C

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

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 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.

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 gripping material on the surface where the pavement will be installed.
2. Then, place the profile and press it to allow the gripping material pass through the mechanized holes on the fixing wing.
3. Place a tile on the fixing wing of the profile and press to an optimal contact with the gripping material.
4. Repeat the previous step placing tiles along the profile until the installation is finished.
5. Before curing, tap with a rubber hammer to align the profile with the pavement.
6. Finally clean the remaining material and let dry.

* If you planned polishing the soil, install the profile slightly below the tile to avoid possible damages.



Warnings



Novojunta Lúmina® is not an emergency signaling device. Its function is supporting these devices, favoring visibility in case of sudden darkness through the light signaling of floors and walls.

Novojunta Lúmina® needs to be charged to emite light. It is recommended its installation below points of light. The light intensity decreases exponentially during the emission.

Cleaning and maintenance

The cleaning can be done with water and detergent or specific cleaner disoluted. The correct use of bleach do not affect PVC.

It is not recommended using chromic acid, sulfuric acid or organic solvents as ethyl acetate, acetone or toluene.

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.



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