

topeca[®] glass block



TECHNICAL DATA SHEET

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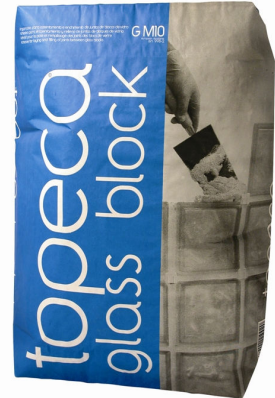
TOPECA
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topeca
glass block

masonry mortars

adhesive for laying and filling of joints between glass blocks



use

Adhesive for laying and filling of joints between glass blocks of any format used for making windows, walls, light entry points and skylights.

Easy to apply and hardens quickly. No mess when applying.

Topeca Glass block is a moisture shedding product. It is flexible and resistant to chemical agents and atmospheric changes. It has a mono-component base which means that it is always ready for use.

surface



- Glass blocks can be laid on cement, old ceramics, tiles. Windows or dividers joined to supports on all four sides must be independent. In other words they must come into contact with the perimeter dilatation joint.

CE marking

G-MIO
European Standard
EN 998-2



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recommendations

Do not add more water after the paste has started to harden.

Protect the wall from extreme temperatures (heat or frost), rain, etc, for at least the first 24 hours.

The maximum surface of a wall of glass blocks is 20 m². Greater dimensions should be broken up into different sections. Neither side should have a size greater than 5m.

Leave a joint in between blocks of at least 10mm.

Do not use joints greater than 3cm between blocks.

Always use crossarms for laying glass blocks.

Do not use wooden slats in place of the crossarms, as swell with moisture.

Do not add more water than indicated.

Due to its fast-curing, the finish of the joints must be made after hardening of the mass.

The glass brick should be laid in order to have full independence in relation to the building structure and any possible movement of the structure - dilations, contractions, shifting foundations.

In the realization as skylights horizontal areas should have a slope equal to or greater than 1% thus allowing the evacuation of water.

On the walls of small and medium size is appropriate to put steel rods or galvanized iron. In large walls is preferable to use U-profiles fastened to adjacent structures. The expansion joint or settlement will be placed inside the profile U.

It is advised to use rods galvanized iron or steel between the pieces by putting these in both horizontal and vertical, in order to promote resistance structure.

The rods or galvanized steel must be completely incorporated in Topeca glass block, so as to avoid contact thereof with the glass block.

Protect the walls / partitions or perimeter windows with elastic joints.

Among the glass block and masonry wall, there must be an elastic joint using styrofoam, cardboard or other elastic material.

The glass block must be connected to this mortar and the elastic material.

Cleaning tools with water.

composition and characteristics

Composition:

Special cements, resin, silica compounds, organic and inorganic additives.

Characteristics:

Working life of paste: 40 minutes.

Part rectification time: 50 minutes.

Application thickness: between 10mm and 30mm.

Application temperature: between 5 and 30°C.

Particle size : <0.5 mm

Pulp density: 1900 Kg/m³

Density of hardened product : 1700 Kg/m³

Flexural strength: 4 N/mm²

Compression strength (24 Hours):

2,8N/mm²

Compression strength (28 Days): ≥15 N/mm²

capillarity : 0,2 Kg/m².min^{0,5}

Cond. Thermal: (λ10, dry) = 0.67W/m.K (tabulated value, P = 50%)

Coef. Dif. Water Vapor (μ): μ 15/35

Reaction to fire: Class A1

Note: These times may change, in case of temperature variations. If the temperature drops to extend this time, if the temperature increases they become shorter. Results obtained in laboratory conditions, according to EN 998-2.

colour

White

consumption

20 Kg/m², as a guide: used for mounting and filling of joints, joints with 10mm, glass block of 80mm thick, dimensions 19x19cm.

available in

Sacks of 25 Kg

Pallets with 48 sacks.

storage

1 year in an unopened pack stored in a damp free environment.



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preparation of surface

All blocks must be free of dust, paint, wax, oils, etc...

Blocks must be dry.



application

Mix 25Kg of paste with 4.5 – 5.5 litres of clean water till a lump free, even paste is obtained.

A colour powder dye may be added to Topeca Glass Block so as to obtain joints of the desired colour.

Allow to settle for 2-3 minutes.

Mix again.



When mounting glass blocks, a metal spatula or a trowel should be used. The use of a steel or galvanized iron bar of 4 to 6mm or U profiles is recommended, depending on the size of the wall.

Bars should be fitted into side supports.

Lay glass blocks with the help of pegs so as to obtain the desired joint width. Fill joints with Topeca Glass Block.



Ensure dilatation/base joints have a thickness of at least 3 cm, placing rods within the interior.

Apply paste over the glass block so as to ensure the joint is filled.

Check that the block is surrounded on all sides by enough material.

Remove any excess paste with the help of a trowel.



After filling the joints and given that Topeca Glass Block hardens quickly, clean the surface of the glass blocks with a sponge and clean water.

A smooth finish on joints is obtained using a trowel and sponge finish is obtained using a sponge. This operation should be carried out as soon as the paste begins to harden.

The whitish covering which remains after the first cleaning can be easily removed the next day with a dry or slightly damp cloth.



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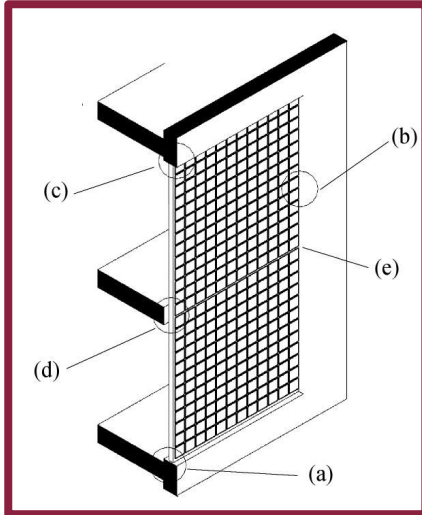
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details of assembly and singular points

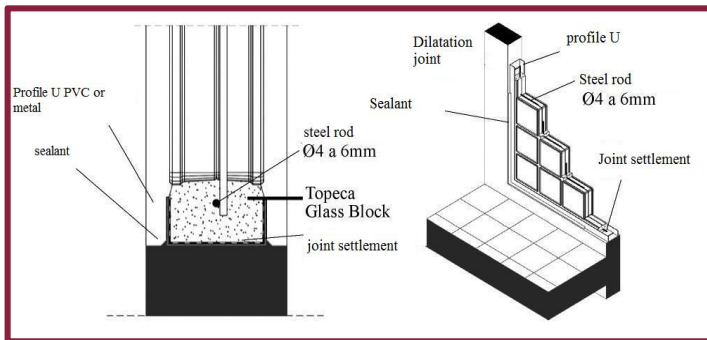
All accessories can be found in this catalog.

joints in a perimeter wall of glass blocks (critical points)

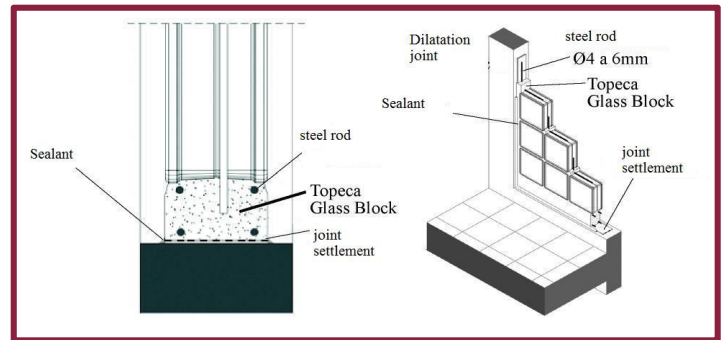


- (a) - Joint perimeter seating below.
- (b) - Joint perimeter lateral.
- (c) - Joint perimeter upper.
- (d) - Fixing of floor.
- (e) - Interruption horizontal or vertical.

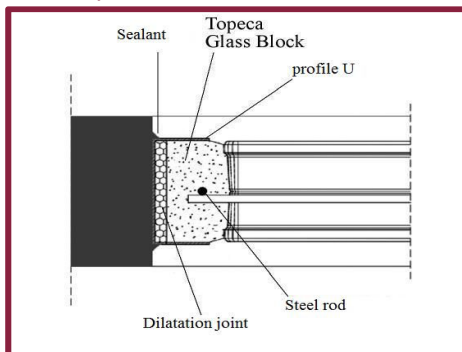
joint perimeter seating below with profile U



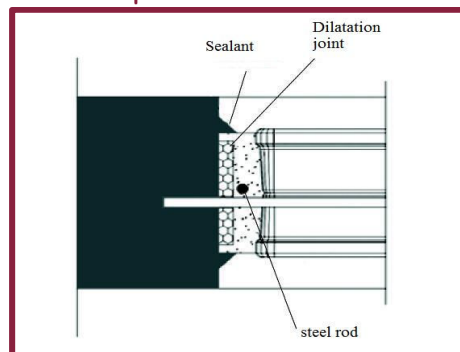
without profile U



joint perimeter lateral with profile U



without profile U



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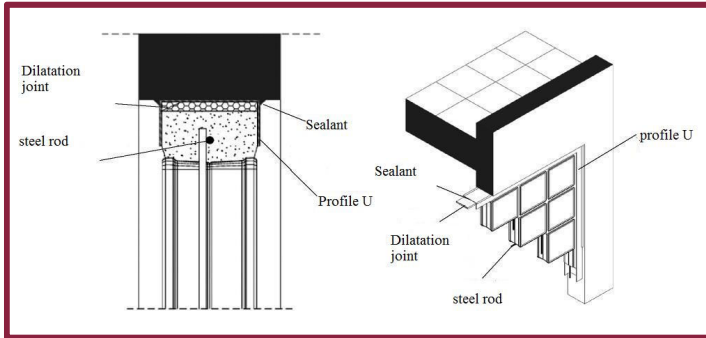
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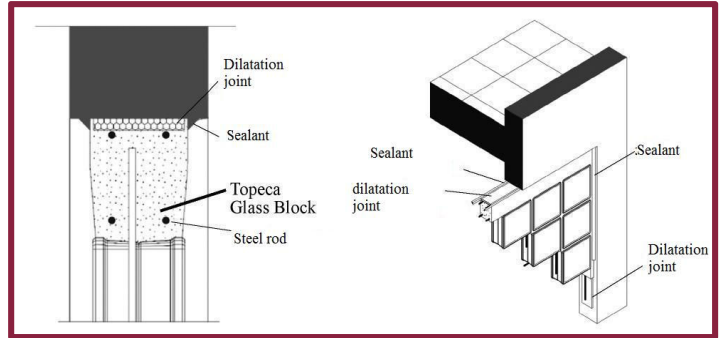
details of assembly and singular points

Joint perimeter upper.

with profile U

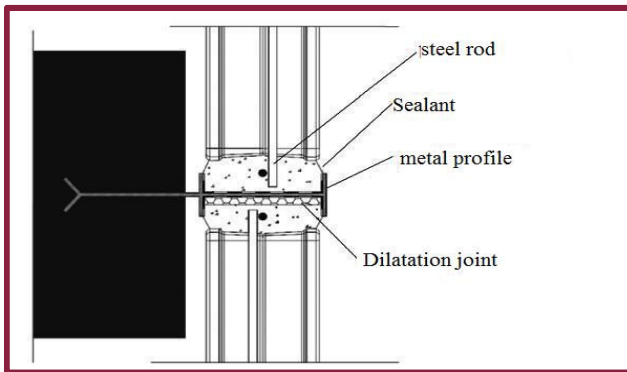


without profile U

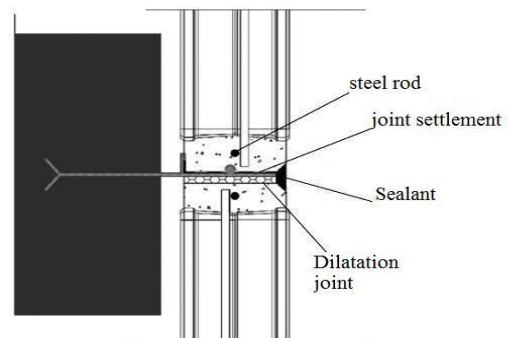


fixing of floor.

with metal profile

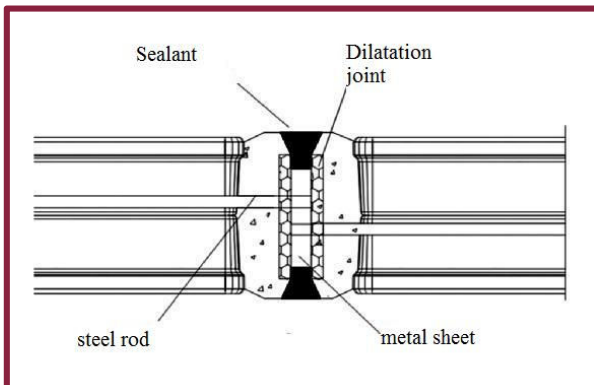


without profile

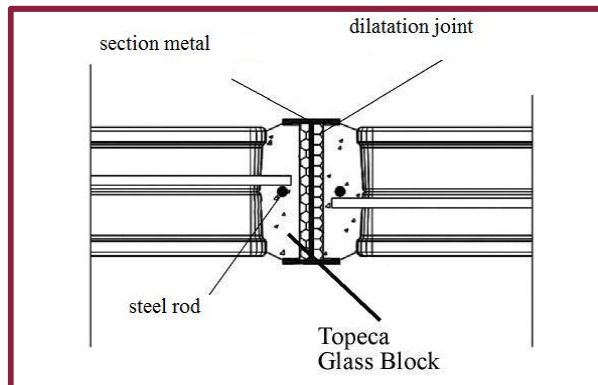


interruption horizontal or vertical

with a inserting metal blade



with a metal section in I



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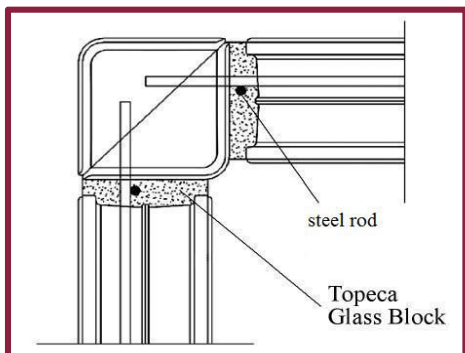
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details of assembly and singular points

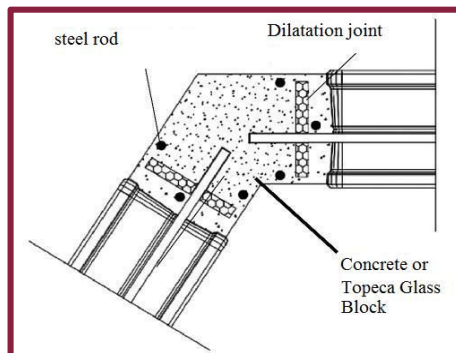
other singular points

angles

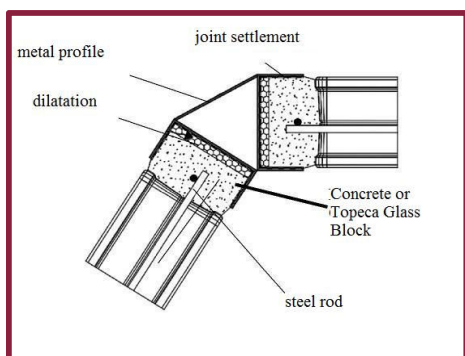
with blocks of glass at an angle of 90°



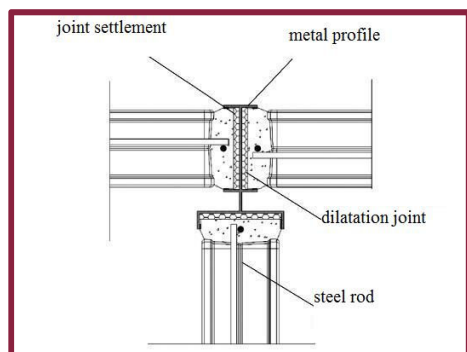
with insertion of pillar



inserting metal profile



T intersection



terminals

