

DANOLOSA

Porous concrete slab on the basis of extruded polystyrene machining.



ETE 18/ 0328

DANOLOSA Grey 95 is an insulating slab consisting of porous concrete, which acts as a mechanical protection over an extruded polystyrene base, resulting in a durable and practical insulated surface.

Presentation

- Length (cm): 50
- Width (cm): 50
- Colour: Grey
- Thickness (mm): 75
- Units per pallet: 68
- Logistic class: (B) Products in stock, maximum availability in less than 3 days
- Product code: 711022

Technical Data

Concept	Value	Standard
Compressive strength of concrete 28 days (concentrated load on Ø 20 cm) (kN)	>30	-
Bending Tensile Strength (kN)	>3,5	-
Compression behavior at 25% (\geq MPa)	0.31	UNE-EN 1339
Compression behavior at 5%	0.3	UNE-EN 1339
External fire behaviour	Broof(t1)	UNE-EN 1339
Point load strength to 250 N	Sin defectos	DIT 550/10; DIT 551/10
Compression strength (kPa)	300	-

Additional Technical Data

Concept	Value	Standard
water absorption by diffusion 50 % (%)	<3	-
water absorption by diffusion 60 % (%)	<2,7	-
water absorption by diffusion 80 % (%)	<1,5	-
Water absorption by immersion (%)	≤ 1,5	-
Breaking load of concrete	1,3	-
Thermal conductivity XPS	0.034	EN 12667 - EN 12939
Deformation under load of 40 KPa (%)	< 5	-
Density of insulating	35	EN 1602
Dimensions of concrete (mm)	495 x 495 (±1)	UNE-EN 1339
Dimensions XPS (mm)	500 x 500 (±2)	-
Insulation thickness (mm)	40 (±1)	-
Thickness of concrete (mm)	33(+/- 3)	UNE-EN 1339
Dimensional Stability XPS	≤ 5	-
Mass (kg)	15	-
Reaction to fire insulation (Euroclass)	E	UNE-EN 13501-1
Fire performance of concrete (Euroclass)	A	-
Compressive strength of concrete 3 days (MPa)	9.4	-
Compressive strength of concrete 21 days (≥ MPa)	11.6	11.6
Compressive strength of concrete 28 days (MPa)	12.5	UNE-EN 12390-3: 2009
Concrete flexural strength (MPa)	13	UNE-EN 1339

Standards and Certification

- DIT 550R/16 "ESTERDAN PENDIENTE ZERO".
- DIT 550R/20 "DANOPOL PENDIENTE ZERO"
- Material contemplated in the CTE and CEC.

Scope

- Technical roofs on supports (plots).
- Insulating and filtering slab for accessible roofs.
- Technical walkways on non-accessible roofs finished in gravel.
- Renovation and transformation of non-accessible roofs.
- Support surface for equipment on non-trafficable roofs and installations in general.

Advantages & Benefits

- Lightens the weight of the tyre compared to other types of heavy protections.
- High resistance to compression, allows people to transit.
- Adds thermal insulation and walkable paving to the roof.
- High filtering capacity, allows installation and transit in adverse weather conditions.
- Paving joints are not needed thanks to the 1-2 mm “reduction” of the porous concrete layer with respect to the XPS insulating base.
- Allows for the placement of benches and supports to place equipment and facilities.
- Protects waterproofing.
- It can be disassembled, facilitating access to the waterproofing.
- Simple installation.

Instruction for Use

Preparation of the substrate:

Once the waterproofing has been carried out, the roof must be smooth, uniform, clean, devoid of foreign objects.

Laying of Danolosa:

- It is laid on site without any bonding material, deposited carefully, and preferably on a geotextile anti-puncture layer covering the waterproofing or directly on the waterproofing, supporting its insulating layer.
- The slabs shall be laid butt-tight, without expansion joints.
- In changes of oblique files and files, the piece must be cut with a low speed radial saw.
 - A small gap (3
 - 5 mm) should be left to allow for expansion when there are singular elements such as skylights, etc.
- It must be transported on pallets.
- Goods not considered as dangerous in transport.

Indications and Important Recommendations

- A separating layer type DANOFELT® PY 300 must be placed between the PVC waterproofing and the tile.
- It is not necessary to use filler in the joints.
- Do not use hammers to fit or level the parts.
- Its use on plots is restricted to supports with a square head of at least 200 mm.
- For the cutting of the DANOLOSA, it is recommended to use a water-cooled low r.p.m. radial machine, type DU-200-L.
- The apparition of portlantita efflorescences on porous concrete, characterized by changing the colour of the tile, does not mean the decline of its performance.
- Variations in tone in the raw materials of porous concrete may also vary the tone between tiles of

the same colour.

Handling, storage and preservation

- The cutting machines must be in a ventilated room.
- Keep away from flames and sources of heat.
- Keep in ventilated areas, preferably in premises with fire prevention systems, as remnants of ethanol (traces) may be released in the production process.
- Goods not considered hazardous.
- It must be transported on pallets.

Notice

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