

DANOLOSA 95

Danolosa 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.



TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Dimensions	500 x 500 (±1)	mm	-
Mass	15 (±1)	Kg	-
Total thickness	95 (±4%)	mm	-
Bending Tensile Strength	≥ 3.5	MPa	UNE-EN 1339
Tensile Strength Compression to 28 days (concentrated load on Ø 20 cm)Proponer una traducción	≥ 30	KN	DIT 550/10; DIT 551/10
Compression behavior of a 5%	0.34	MPa	DIT 550/10; DIT 551/10
Compression behavior of a 25%	0.35	MPa	DIT 550/10; DIT 551/10
Compression behavior of a 50%	0.40	MPa	DIT 550/10; DIT 551/10
External fire behavior	Broof (t1)	-	DIT 550/10; DIT 551/10
Breaking load in tension between layers (adhesion) to 28 days	≥ 0.08	MPa	DIT 550/10; DIT 551/10
Resistance to 10 J impact	≤ 13	Ø mm	DIT 550/10; DIT 551/10
Point load strength to 250 N	Flawless	-	DIT 550/10; DIT 551/10

ADDITIONAL TECHNICAL DATA

ADDITIONAL DATA	VALUE	UNIT	STANDARD
Insulation thickness	60 (±1)	mm	-
Dimensions XPS	500 x 500 (±2)	mm	-
Density of insulating	35	Kg/m ³	-
Reaction to fire insulation	E	Euroclase	-
Thermal conductivity	0.034	W/m K	-
Dimensional Stability	≤ 5	KPa	-
Minimum resistance to compression of XPS	300	KPa	-
Deformation under load of 40 KPa	< 5	%	-
Water absorption by immersion	≤ 0.7	%	-
Water absorption by diffusion 50 %	≤ 3	%	-
Water absorption by diffusion 60 %	≤ 2.7	%	-
Water absorption by diffusion 80 %	1.5	%	-
Thickness of concrete	35 (±3)	mm	-
Dimensions of concrete	490 x 490 (±1)	mm	-
Fire performance of concrete	A	Euroclase	-
Breaking load of concrete	1.6	kN	UNE-EN 1339
Concrete flexural strength	1.3	MPa	UNE-EN 1339
Compressive strength of concrete 3d	MPa	MPa	UNE-EN 12390-3: 2009
Compressive strength of concrete 21d	11.6	MPa	UNE-EN 12390-3: 2009
Compressive strength of concrete 28d	12.5	MPa	UNE-EN 12390-3: 2009
Porosity interconnected pores	20	-	-

STANDARDS AND CERTIFICATION

Material included in the CTE and CEC.

Material included in DIT ESTERDAN PENDIENTE CERO N° 550/10.

Material included in DIT DANOPOL PENDIENTE CERO N° 551/10.

SCOPE

- Insulating and filtering slab all in one for accessible roofs.
- Rehabilitation and conversion of non-walking roofs.
- Technical paths in non walking gravel finished roofs.
- Support for equipment in non walking roofs and facilities in general.
- Technical decks over supports pads as per DANOSA's System.

PRESENTATION

PRESENTATION	VALUE	UNIT
Length	50	cm
Width	50	cm
Total thickness	95 ($\pm 4\%$)	mm
Slabs per pallet	52	ud
m ² /pallet	13	m ²
Colour	White	-
Product Code	711011	-

INSTRUCTION FOR USE

Preparation of the support:

Once the waterproofing is done, the roof should be smooth, uniform and clean.

Danolosa application:

- It is applied without any gripping material, deposited with care, preferably over a geotextile antipunching layer covering the waterproofing or directly on it, lying on the insulation face.
- Slabs will be placed without any expansion joint.
- On hipper ends and valleys the slab should be accordingly cut using a water-cooled low r.p.m. radial machine.
- A small space (3-5 mm) must exist, to allow dilatations coming from, for example, skylights, etc...
- It should be carried on pallets.
- Not considered as dangerous goods for transport.

INDICATIONS AND IMPORTANT RECOMMENDATIONS

- The use of Danolosa over supports is restricted to square head supports (min. 200 mm) Danoplot type.
- For the cutting of the Danolosa, it is recommended to use a water-cooled low r.p.m. radial machine, type DU-200-L.
- It is not necessary to cover the joints.
- In the case of a synthetic waterproofing system, it is necessary to use a 300 gr./m² polyester geotextile between the membrane and the insulating slab.
- No hammers should be used for levelling or fitting the pieces.
- Before applying the product it is recommended to test the tightness of the waterproofing.
- This product is part of a waterproofing system, so we should take into account the systems and information contained in the manual of Danosa Solutions.
- Roof regulations must be respected.
- Due to possible variations in the tone of the raw materials, the tones between tiles of the same colour can also vary.

HANDLING, STORAGE AND CONSERVATION

- The pallets must be handled with stacker or forklift.
- It is recommended a separation between the forklift nails of 80 cm.
- Due to the nature of the product Danolosa, the pallets must be moved carefully, paying attention to potential bumps, irregularities in the firm, and so on.
- The product will be placed with care so as to prevent any shock that may deteriorate its quality.
- When the product is mechanically processed, propellant gas can be released.
- When the product is overheated, monomers or other degradation products can be released.
- The cutting machines should be placed on a ventilated room.
- Keep away from flames or heat sources.
- Keep in ventilated areas, preferably fitted with fire-fighting systems, as they may release traces of ethanol from the production process.

WARNING

The information that appears in the following document makes reference to the uses and utilities of danosa's products and systems, and it is based on the knowledge that have been learnt until present, by Danosa. This is only possible if products have been stored and used in an appropriate way.

Nevertheless, Danosa is not responsible for unsuitable uses of the products neither any other facts, such as meteorological facts. So Danosa is just responsible for the quality related to the provided products.

Danosa reserves the right to carry out modifications without previous notice.

The values that appear in the technical sheet are the results of the tests that have been performed in our laboratory. July 2007 .

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