

DANOFON.

Symmetrical Multi-layer panel for party wall thermal and acoustic insulation.



EPD[®]



EPD S-P-04339

DANOFON is a multilayer composite made of a high density bitumen based membrane between two porous textile layers. Acoustically it works as a low-medium and high frequency insulation.

Presentation

- Length (cm): 600
- Width (cm): 100
- Thickness (mm): 28
- Membrane thickness (mm): 4
- Total blanket thickness (mm): 44542
- m² / package: 54
- Surface (m²): 6
- Product code: 610090

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	7.5	-
Insulation improvement at 125 Hz (between rigid elements) (dB)	63	EN 845
Airborne sound insulation, RW (dBA)	63	EN 140-3/EN 717-1
Acoustic insulation in housing solution (dBA)	63	EN 717-1
Coefficient of linear thermal expansion (mm/m·K)	1	-
Thermal conductivity of the insulation blanket 10 °C (W/mK)	0.040	-

Concept	Value	Standard
Thermal conductivity of the membrane 10 °C (W/mK)	0.130	EN 12667 EN 12939
Insulation blanket density (kg/m³)	50 +/- 5%	EN 845
Membrane density (kg/m³)	1800 +/- 5%	EN 845
Reaction to fire	F	EN 13501-1
Reaction to fire according to its method of installation with exposed mineral wool (Euroclass)	F	-
Longitudinal tensile strength (N / 5cm)	> 480	EN 12311-1EN 12311-1EN 12311-1
Resistance to tearing (nail shank) (N)	>370	EN 12310-1
Airflow resistance of the porous textile (KPa.s/m²)	33	EN 29053
Thermal resistance of the whole (m²K/W)	0.77	EN 12667 EN 12939
Thickness tolerance (%)	5	EN 823
Tolerance Length and Width (%)	< 5	EN 822

Additional Technical Data

Concept	Value	Standard
Density (kg/m³)	27	EN 845

Environmental Information

Concept	Value	Standard
Volatile organic compounds (COV's) (µg/m³)	< 100	ISO 16000-6:2006
Content of recycled raw material (%)	28	-
Post-consumer recycled content (%)	100	-
Manufactured in	Fontanar (Guadalajara) España	-

Standards and Certification

- DIT 439R/16 "IMPACT NOISE CUSHIONING SYSTEM".
- The sound certifications are the result of tests in an approved laboratory.
- *For any questions about information on the tests, please consult our Technical Department.

Laboratory	Test (EN 140-3) No	Result (EN 717-1)
L.G.A.I. (1)	110.922	RA= 38.5 dBA
L.G.A.I. (2)	98.004.277	RA= 49.5 dBA
L.G.A.I. (3)	98.012.321	RA= 54.5 dBA
LABEIN (4)	B130-134-H92	RA= 58.4 dBA
INSTITUTO TORROJA (5)	18.017	RA= 54 dBA

Scope

- Sound insulation of partition walls between different users in public or private residential buildings.
- Insulation within the airtight chambers of wall linings and floating ceilings for low, medium and high frequencies in low-noise commercial premises.
- Renovation of partition walls between different users in residential buildings.

Advantages & Benefits

- Acoustic insulation DnTA>50 dBA.
- High flexibility, allows for continuity of insulation in difficult encounters.
- Easy installation, can be mechanically fixed or adhesively bonded.
- Greater privacy, isolation at low, medium and high frequencies.
- Low thickness with high acoustic performance.

Instruction for Use

An installation of the DANOFON shown in the following pictures:

Indications and Important Recommendations

- The final plaster or mortar finish of the partition walls must be at least 1 cm thick.
- The facade cladding in a building must end at the dividing wall between different users. See SPD 2.1
- Details can be found in the document "Sound Insulation Installation. Singular Point Details" (SPD) and in the DANOSA Solutions Manual SUF1 SUF2 SUF3.
- Partition walls should not be anchored to structural elements (except for roofs in dwellings) such as pillars and facades. In order to maintain the stability of the system, the tiling element must be bonded to the internal floating partition walls.
- It is not possible to perforate the floating roof with installations in the proposed solution in commercial premises. See SPD 4.4 and files TEF3 and TEF4
- Impact sound insulation must be used (e.g. Impactodan System) See AA01 sheet.
- Impact sound insulation (e.g. Impactodan System) must be used. See SUF1 SUF2 and SUF 3 sheet.
- If the heating installations were central or water intake, decoupling by means of self-adhesive TAPE. See SPD 1.2
- If a battery-powered drilling machine is used (never with a mains power cable), the drill bit can be soaked in water to prevent the drill bit from becoming embedded in the asphalt.
- Isolated sewage disposal systems with FONODAN BJ or ACUSTIDAN. See BAJ1 and BAJ2 sheet of "Danosa Sound Insulation Solutions.

Handling, storage and preservation

- Store in covered and ventilated places that comply with current legislation regarding storage.
- Consult the product safety datasheet.
- The product itself is not classified as hazardous and is not toxic to the environment.
- The product may present a colour variation due to the mixture of fabrics, or the yellow colour may darken with the passage of time. This variation in appearance does not affect the acoustic conditions of the material.
- Stable at room temperature. Avoid being at temperatures above 70°C as that would alter the material's properties, accelerating its degradation.
- No personal protection is required during transportation and handling. During application, appropriate measures must be taken with regard to the handling of machinery (mechanical fixing) or the application of adhesives via solvents.
- Preferably transport on complete and packed pallets in order to avoid possible alterations to the product during transport.
- In all cases, the Occupational Safety and Hygiene standards, as well as the standards of good construction practice, must be taken into account.
- For further information, please contact our Technical Department.

Notice

- The information contained in this document and any other advice provided, are given in good faith, based on DANOSA's current knowledge and experience when products are properly stored, handled and applied, in normal situations and in accordance with the recommendations of DANOSA. The information applies only to the application (s) and the product (s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the DANOSA Technical Service before using the DANOSA products. The information contained herein does not exonerate the responsibility of the building agents to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations. The product images used in our communications are indicative and may differ slightly in color and aesthetic appearance in relation to the final product. Orders are accepted in accordance with the terms of our current General Sales Conditions. DANOSA reserves the right to modify, without prior notice, the data reflected in this documentation. Website: **www.danosa.com** E-mail: **info@danosa.com** Telephone: **+34 949 88 82 10**