

CONFORDAN ECO.

Cross-linked polyethylene foam membrane for acoustic insulation of laminated or timber floors.



EPD[®]



EPD S-P-01924

CONFORDAN[®] ECO is a flexible, chemically cross-linked polyethylene film, closed-cell on one side, which gives the product an elastic internal structure. It's designed to insulate residential wooden floor systems and complements the IMPACTODAN system. Compatible with underfloor heating.

Presentation

- Length (cm): 2500
- Width (cm): 100
- Thickness (mm): 2.5
- Thickness (mm) ~ Standard: EN 1923
- Surface (m²): 25
- Product code: 620031

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	0.125	-
Density (kg/m ³)	27 ± 10%	EN 845
Thermal conductivity declared (W/mK)	0.040	EN 12667
Remainder deformation (24h compressed at 50%, 23°C) (%)	< 32	EN 1856
Insulation thickness to be fixed (mm)	2,5	-
Impact noise transmission level L _{nT, w} , in situ (dB)	<60	EN-140-7, EN-717-2
Water vapor permeability δ (mg/m·h·Pa)	0.00016	EN-12086

Concept	Value	Standard
Reaction to fire	F	EN 13501-1
Compressive strength at 25% (kPa)	> 23	UNE EN ISO 3386-1
Traction resistance (kPa)	> 180	EN 1798
Dynamic stiffness (MN/m ³)	< 110	EN 29052-1
Thickness tolerance (%)	< 8	EN 823
Tolerance Length and Width (%)	< 10	EN 822
Hysteresis work (Nm)	> 2	EN 3386-1

Additional Technical Data

Concept	Value	Standard
Impact noise enhancement ΔL_n (dB)	17	EN 140-8 EN 717-2
Improvement of impact noise level at one month with wet slab	20	-
Impact noise level improvement with precast slab	21	-
Improvement of impact noise level under laboratory conditions	20	-

Environmental Information

Concept	Value	Standard
Volatile organic compounds (COV's) ($\mu\text{g}/\text{m}^3$)	30	ISO 16000-6:2006
Content of recycled raw material (%)	5	-
Pre-Consumer recycled content (%)	100	-
Manufactured in	Fontanar - Guadalajara (España)	-

Standards and Certification

- The certification is the result of tests carried out in official laboratories, giving the result as an improvement of the system to the impact noise of a standardised slab.

Scope

- Damp-proof and separation barrier for floating floor finishes.
- Complements the IMPACTODAN® system.

- Wooden flooring systems in dwellings.

Advantages & Benefits

- Vapour and dampness barrier.
- Good acoustic insulation against impact noise.
- Compatible with underfloor heating.
- Long life expectancy.
- Inexpensive, easy and efficient installation.
- The aluminium sealing tape reduces the static charge.
- Impact noise improvement $\Delta L_n = 17$ dB.
- Optimum chemical and thermal resistance.

Instruction for Use

Preliminary operations

- Before starting the works, the materials necessary for the execution of the work must be gathered, which are:

Staking out equipment

- The installations must be completed before laying the CONFORDAN ECO sheet.
- Any unevenness of the floor of more than 3 mm within 1 m must be levelled out beforehand with ARGONIV 020 ELITE levelling compound for thicknesses < 10 mm or ARGONIV 120 ELITE for thicknesses > 10 mm.
- Fixing equipment
- Aluminium ADHESIVE TAPE should be used to fasten the sheet to each other and to any point on the building site such as slabs, pillars, walls or any other structural element that functions as an electrical earth connection.

Laying CONFORDAN ECO

- Unroll the CONFORDAN ECO in the longitudinal direction of the boards, cutting the necessary size with a cutter.
- It is advisable to overlap and seal with CONFORDAN ECO adhesive tape to give continuity to the insulation and prevent the passage of dampness.
- Install the floating floor according to the manufacturer's instructions or pour the mortar.

Indications and Important Recommendations

- The floating mortar must be strong enough to prevent cracking. (See SPD No. 1.3).
- The skirting boards should be at least 15 mm thick to cover the expansion gap and to avoid creating an acoustic bridge, they should be left with a small gap that can be created by means of a silicone bead.
- The planks must remain for at least 48 hours acclimatising to the room in which they are to be installed at an ambient temperature of at least 17°C, relative dampness not exceeding 70%.
- It will be taken into account that this product is part of a Sound Insulation system, so the Danosa Constructive Solutions Catalogue, Sound Insulation Commissioning must be taken into account. "Details of Singular Points" (SPD), as well as the rest of the Danosa documentation.

Handling, storage and preservation

- Store in covered and ventilated places that comply with current legislation regarding storage.
- Consult the product safety datasheet.
- According to the EEC directives on labelling hazardous substances (GefStoffV), special labelling is not required.
- The product is considered not hazardous for transport (ADR, RID, UN, IATA/ICAO)
- Keep away from flames and sources of heat.
- No special handling measures are required.
- 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**