TIKIDAN
Building together

NEW PRODUCTS AND SOLUTIONS FOR ACOUSTIC INSULATION **UNDER FLOOR**

WATERPROOFING AND INSULATION

INDEX


FONODAN® 900
IMPACTODAN® 5

ACOUSTIC COMFORT ON WOODEN FLOORS

The impact noises such as clicking of heels, children playing, neighbor moving his furniture… is a continual annoyance that quickly becomes unbearable.

Tikidan has a range of has developed a range of high-performance acoustic products for wooden flooring, fulfilling all the necessary requirements for its correct functionality and ensuring prioritizing their durability.

The main criterion for choosing acoustic insulation is its ability to reduce impact noise (ΔLw). A layer of quality insulation can significantly reduce noises downstairs. In addition to the acoustic function, the installation of an underlay of TIKIDAN guarantees in any case a function of separation between the floor and the covering, adapting to the different dilations, avoiding damage to the platform.

Other complementary functions are
- Comfortable transit (flexibility of the surface, attenuation of steps)
- Vapor barrier designed to limit moisture exchange with the ground
- Compatibility with underfloor heating
- Adaptation to traffic intensity
- Improves thermal behavior

TIKIDAN offers a range of products compatible with underfloor heating.

For compatibility, the thermal resistance & of the flooring (underlay + parquet) must not exceed 0.15 m^2 °K/W.

For example:
7 mm laminate flooring, 0.059 m^2 °K/W + CONFORDAN® ECO, i.e. 0.063 m^2 °K/W = 0.122 m^2 °K/W.

Placement on a heated floor is possible because the thermal resistance of the unit is less than 0.15 m^2 °K/W.

Note: The performance of these products have been evaluated in a temperature environment in accordance with the Standard for underfloor heating EN 1264.

HOW TO CHOOSE THE BASE PRODUCT

	CONFORDAN ®ECO	CONFORDAN ®	IMPACTODAN ® BT	FONODAN ® 900
Application	Normal	Normal	Intense	Very intense
Acoustics	17 dB	18 dB	22 dB	22 dB + 70 sonio
Heating	Radiating floor	Radiators	Radiating floor	Radiators
Thickness(mm)	2.5	3.0	3.0	4.5

NEW WORK

**Solutions compatible with the IMPACTODAN® system

REHABILITATION

CONFORDAN® ECO

HIGH DURABILITY IMPACT NOISE INSULATION

- ACOUSTIC INSULATION FOR IMPACT NOISE
- EXCELLENT PRICE QUALITY
- COMPATIBLE WITH RADIATING FLOOR
- GREAT DURABILITY
- EASY AND FAST APPLICATION
- MINIMUM THICKNESS

CONFORDAN®ECO is a flexible sheet of chemically cross-linked polyethylene, with a closed cell for one of its faces, which provides the product with an elastic internal structure.

ADVANTAGES

- Good acoustic insulation against impact noise.
- Economical, easy and effective installation.
- High durability.
- Optimum chemical and thermal resistance.
- High resistance to humidity and vapor diffusion.
- Aluminum sealing tape reduces static charge.
- Compatible with underfloor heating.

USES

- Flat flooring systems in homes.
- Complement to the IMPACTODAN® system.
- Anti-humidity and separation barrier for finishes in floating floors.

PROPERTIES

Rated density	27	kg/m³
Nominal thickness	2.5 (±0.2)	mm
Improvement to impact noise ΔL_n	17	dB
Tensile strength	> 180	kPa
Dynamic stiffness	< 110	MN/m³
Remaining deformation 24 h, 50% comp., 23°C	< 32	%
Compressive strength, 25%	> 23	kPa
Thermal Conductivity	0.040	W/m°K
Thermal Resistance	0.062	m² °K/W
Moisture Resistance Factor,μ	> 3500	-
Reaction to Fire	F	Euroclase

ENVIRONMENTAL INFORMATION

Volatile Organic Compounds (VOC's) = 30 μg/m³
According ISO 16000-6:2006

PRESENTATION

Length	Width	Thickness	m²/rolls
25 m	1 m	2.5 mm	25

CONFORDAN®

HIGH DURABILITY IMPACT NOISE INSULATION

- **ACOUSTIC INSULATION FOR IMPACT NOISE**
- **GREAT DURABILITY**
- **REFLECTIVEINSULATION**
- **VAPOR BARRIER**
- **EASY AND FAST APPLICATION**
- **MINIMUM THICKNESS**

CONFORDAN®is a flexible sheet of closed cell chemically cross-linked polyethylene that provides the product an elastic internal structuring, it is finished in an aluminized LDPE film.

ADVANTAGES

- Good acoustic insulation against impact noise..
- Economical, easy and effective installation.
- High durability.
- Optimum chemical and thermal resistance.
- Vapor barrier.
- Reflective thermal insulation.
- Aluminum sealing tape reduces static charge.

USES

- Flat flooring systems in homes with a traditional heating.
- Complement to the IMPACTODAN system in homes with traditional heating system.
- Anti-humidity and separation barrier for finishes in floating floors.

ENVIRONMENTAL INFORMATION

Volatile Organic Compounds
(COV's) = 30 µg/m³
According ISO 16000-6:2006

PROPERTIES

Rated Density	40	kg/m³
Nominal Thickness	3 (±0.2)	mm
Impact noise upgradeΔL_n	18	dB
Tensile Strength	> 240	kPa
Dynamic Stiffness	≤100	MN/m³
Remaining Deformation 24 h, 50% comp., 23°C	< 10	%
Compressive Strength, 25%	36	kPa
Thermal Conductivity	0.040	W/m°K
Thermal Resistance	0.075	m² °K/W
Moisture Resistance Factor,µ	> 3500	-
Reaction to fire	F	Euroclase

PRESENTATION

Length	Width	Thickness	m²/rolls
15 m	0.95 m	3 mm	14.25

IMPACTODAN® BT

HIGH PERFORMANCE IMPACT NOISE ACOUSTIC INSULATION

- ACOUSTIC INSULATION FOR IMPACT NOISE
- COMPATIBLE WITH RADIATING FLOOR
- GREAT DURABILITY
- EASY AND FAST APPLICATION
- RESISTANCE TO FLATTENING
- FOOT RESISTANCE
- SUITABLE FOR IRREGULAR FLOOR

IMPACTODAN® BT is a flexible sheet of chemically cross-linked polyethylene, with a closed cell on one of its faces, and medium density that provides the product with an internal elastic structure.

ADVANTAGES

- Great acoustic insulation against impact noise.
- Economical, easy and effective installation.
- Great durability.
- Optimum chemical and thermal resistance.
- High resistance to humidity and vapor diffusion.
- Good resistance to compression.
- Sensation of comfort in the tread.
- Aluminum sealing tape reduces static charge.
- Compatible with underfloor heating.

USES

- High acoustic performance flooring systems such as hotels, residences, etc.
- Acoustic rehabilitation of floors.
- Complement to the IMPACTODAN® system.
- Anti-humidity and separation barrier for floating flooring finishes.

ENVIRONMENTAL INFORMATION

Volatile Organic Compounds (VOC's) = 30 µg/m³
According ISO 16000-6:2006

PROPERTIES

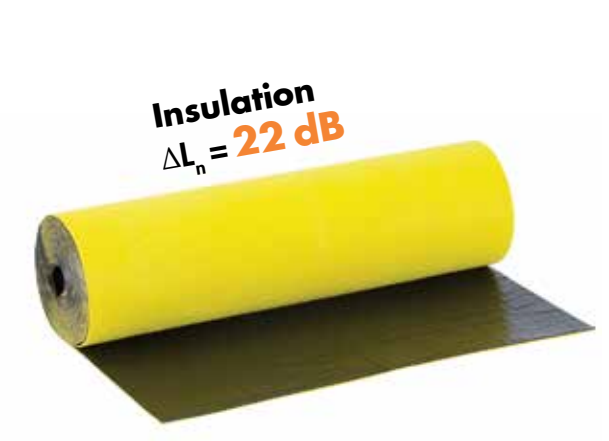
Rated density	> 40	kg/m³
Nominal Thickness	3.0 (±0.2)	mm
Improvement to impact noise ΔL_n	22 dB	%
Tensile Strength	> 200	kPa
Dynamic Stiffness	≤ 60	MN/m³
Remaining deformation 24 h, 50% comp., 23°C	< 10	%
Resistencia a la compresión, 25%	50	kPa
Compressive strength	0.070	W/m°K
Thermal conductivity	0.043	m² °K/W
Moisture resistance factor,µ	> 3500	-
Reaction to fire	F	Euroclase

PRESENTATION

Length	Width	Thickness	m²/rolls
25 m	1,06 m	3 mm	26,5

FONODAN® 900

HIGH PERFORMANCE IMPACT NOISE INSULATION AND LOW NOISE



- ACOUSTIC INSULATION FOR IMPACT NOISE
- INSULATION IMPROVEMENT OF THE SEPTUM
- ISOLATES NOISE FROM REFLECTION
- GREAT DURABILITY
- RESISTANCE TO FLATTENING
- FOOT RESISTANCE
- SUITABLE FOR IRREGULAR FLOOR
- VAPOR BARRIER

FONODAN® 900 is a two-layer product made up of a high-density self-adhesive membrane and a chemically cross-linked polyethylene heat-welded to the former.

ADVANTAGES

- Great acoustic insulation against impact noise.
- Reduces noise from the platform itself. Lower noise.
- Great resistance to tearing.
- Economical, easy and effective installation.
- Great durability.
- Optimum chemical and thermal resistance.
- Vapor barrier.
- Good resistance to compression.
- Sensation of comfort in the tread.
- Accepts small irregularities on the floor.
- Aluminum sealing tape reduces static charge.

USES

- High acoustic performance flooring systems such as hotels, residences, etc. and where less is required indoor noise.
- Acoustic rehabilitation of floors.
- Complement to the IMPACTODAN® system.
- Anti-humidity and separation barrier for finishes in floating floors

ENVIRONMENTAL INFORMATION

Volatile Organic Compounds (COV's) = 30 µg/m³
According ISO 16000-6:2006

PROPERTIES

Rated density	575	kg/m³
Nominal thickness	4 (±0.4)	mm
Improvement to impact noise ΔL_n	22 dB	%
Improvement of the airborne noise level between plasterboard panels ΔR_w	> 4 dB	%
Average Spectrum Loudness	70	sonio
Tensile strength	> 600	N/5 cm
Dynamic Stiffness	≤ 60	MN/m³
Remaining Deformation 24 h, 50% comp., 23°C	< 10	%
Compressive Strength, 25%	50	kPa
Thermal Conductivity	0.072	W/m°K
Thermal Resistance	0.045	m² °K/W
Moisture Resistance Factor,µ	> 100000	-
Reaction to Fire	F	Euroclase

PRESENTATION

Length	Width	Thickness	m²/rolls
10 m	0.92 m	4 mm	9.2

APPLICATION

PRECONDITIONS

- The substrate must be clean, dry, smooth and flat.
- To ensure the correct functionality of the parquet/under layment complex, the underlayment must not be damaged during installation placement.

FLOATING INSTALLATION

- Lay the underlayment in the direction of the width of the room (perpendicular to the floorboards), applying the vapor barrier to the floor, if necessary.
- Place the material end-to-end, sealing its joints with natural aluminum tape (to reduce static current).
- Leave space to separate the platform with the wedges at the joints with the walls to allow it to expand.
- Install the floating platform according to its manufacturer's instructions.
- The plinth must rest on an elastic material

APPLICATION MODE

1. Clean and prepare the surface.

2. Extend the sheet in the longitudinal direction of the boards.

3. Overlap and seal with aluminum adhesive tape to give continuity to the insulation and prevent the passage of moisture.

4. Install the floating platform according to the manufacturer's instructions

In air-conditioned floors

Whatever the season, before the installation of the floating parquet system, heating will begin for at least three weeks beforehand. The laying of the floor itself should only start if the heating is off. The mortar or concrete must not be moist in more than 3% of the dry mass. Heat the heating system in increments of 5°C per day, until reaching the temperature of use (maximum 28°C on finished surface).

TIKIDAN
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Providing holistic solutions for

- Waterproofing
- Acoustic Insulation
- Thermal Insulation
- Flooring
- Drainage & Protection

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