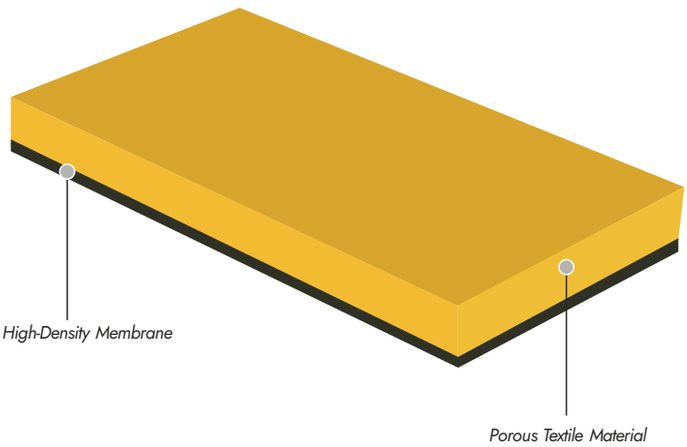
TIKIDAN
Building together

ACOUSTIC SOLUTIONS

PRODUCT & SYSTEM OVERVIEW

ACUSTIDAN

ACUSTIDAN is a Multi-Layer Composite Panel made of a Phenolic Resin Bonded Thick Porous Textile Layer Laminated to High Density Membrane. Acoustically it works as a Low Frequency Sound Insulation.



Uses:

Used inside Plasterboard Chambers on Walls and Ceilings to Improve Low Frequency Sound Insulation in Shops, Discotheques, Bars, Cinema Theatres, Hotels, Housing Projects and other Areas.

Used around Periphery of Drain Pipes to Acoustically Isolate it From Surroundings.

Advantages:

Excellent Thermal and Acoustic Performance

Dual Function of Noise Absorbing and Dampening

Dimensional Stability

Excellent Acoustic Performance at Lower Thickness – Saving in Valuable Living Space

Excellent Flexibility – Ease of Application on Complex Architectural Profiles, Corners, Round Pillars etc.

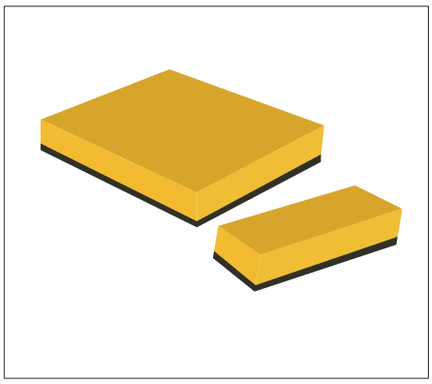
Prevents Sound Leakage from Recesses achieving desired Acoustic Performance

High Tensile and Tear Strength enables Easy Fixing Mechanically

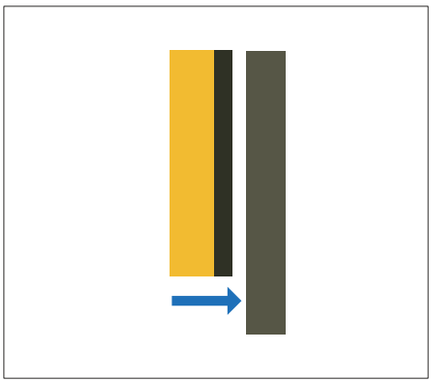
Eliminates need for applying Thick Bonding Adhesive - Saving in Valuable Living Space

TRADE MARK	THICKNESS	ROLL SIZE	SQ. MTR. /PALLET	WEIGHT	THERMAL RESISTANCE (R)	AIR BORNE SOUND INSULATION R_w
ACUSTIDAN 16/2	18 mm	6 m x 1 m	72	4.3 kg/m^2	0.58 m^2.K/W	>48 dBA
ACUSTIDAN 16/4	20 mm			7.6 kg/m^2	0.55 m^2.K/W	>54 dBA

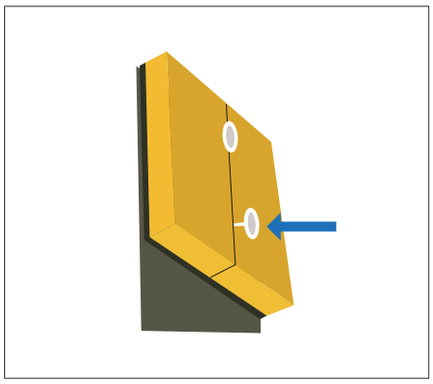
INSTALLATION PROCEDURE ON WALLS



Cut the product



Place Against Wall



Clamping Insulation Fixing at overlap

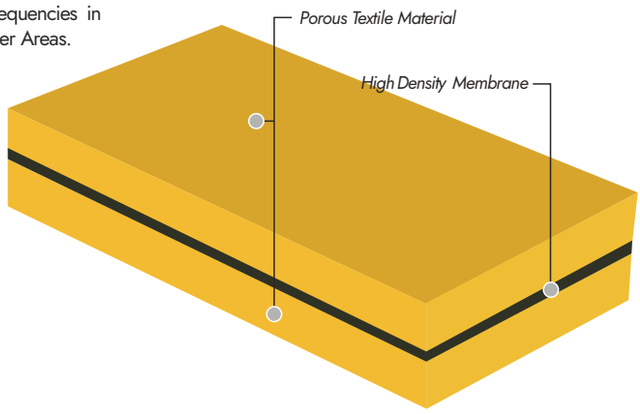
ACOUSTIC INSULATION DANOFON

DANOFON

DANOFON is aMulti-Layer Composite Panel made of a High Density Elastomeric Membrane Sandwiched between Phenolic Resin Bonded Thick Porous Textile Layer. Acoustically it works as a Low, Mediumand High Frequency Sound Insulation.

Uses:

Used Inside Cavity Walls and Suspended Ceilings to Improve Sound Insulation at Low, Medium and High Frequencies in Commercial Premises, Bars, Super Markets, Residential Houses, Restaurants, Industrial Buildings and other Areas.



Advantages:

Excellent Thermal and Acoustic Performance
Dual Function of Noise Absorbing and Dampening
Dimensional Stability
Excellent Acoustic Performance at Lower Thickness –Saving in Valuable Living Space
Excellent Flexibility –Ease of Application on Complex Architectural Profiles, Corners, Round Pillars etc.
Prevents Sound Leakage from Recesses achieving desired Acoustic Performance
High Tensile and Tear Strength enables Easy Fixing Mechanically
Eliminates need for applying Thick Bonding Adhesive - Saving in Valuable Living Space

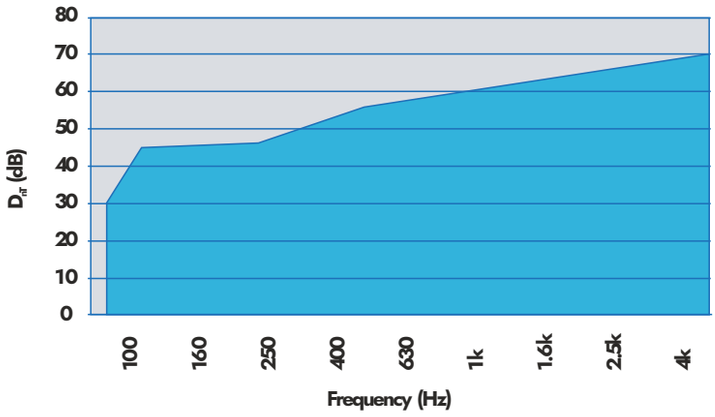
TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Airborne Sound Insulation, R_w	63	dB	EN140-3 EN717-1
Thickness Tolerance	< 5	%	EN 823
Length and Width Tolerance	< 5	%	EN 822
Membrane Density	> 1600	Kg/m^3	EN 845
Density of the Porous Material	50	Kg/m^3	EN 845
Nominal Membrane Mass	6	Kg/m^2	EN1849-1
Airflow Resistance of the Porous Textile	33	$KPa.s/m^2$	EN 29053
Resistance to Tearing (Nail Shank)	> 370	KN/m	EN12310-1
Tensile Strength: Longitudinal	> 480	N/5cm	EN12311-1
Tensile Strength: Transversal	> 275	N/5cm	EN12311-1
Work Temperature	-20/+70	°C	-
Dimensional Stability	0	%	EN13164
Reaction to Fire	F	Euroclase	EN13501-1
Membrane Thermal Conductivity 10°C	0.130	W/m°K	EN12667 EN12939
Textile Layer Thermal Conductivity 10°C	0.040	W/m°K	EN12667 EN12939
Total Thermal Resistance	0.77	$m^2/K/W$	EN12667 EN12939

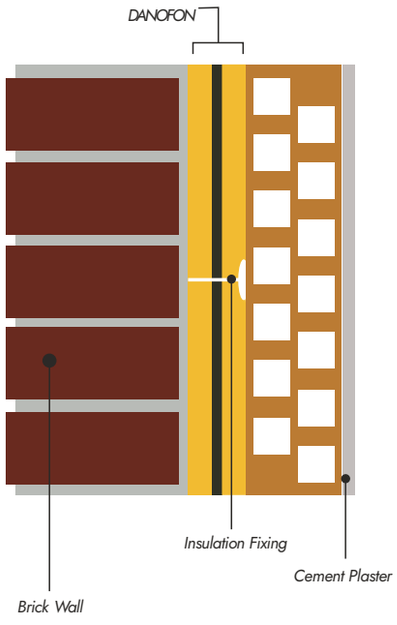
TRADE MARK	THICKNESS	ROLL SIZE	SQ. MTR. /PALLET	WEIGHT	AIR BORNE SOUND INSULATION R_w
DANOFON	28 mm	6 m X 1 m	54	8.3 kg/m2	>63 dBA

INDEPENDENT WALL – AIR BORNE SOUND INSULATION VALUES

Designation	:	Independent light brick wall Danofon
Isolation	:	**DANOFON**
Fixation	:	Acoustic Insulation Fixations
Morter	:	Plaster 1.5 cm
Weight	:	355 Kg/m^2
Thickness	:	12cm
Insulation	:	U = 0.88 W/m^2K
Airborne Sound insulation	:	D_{nTA} > 55 dBA

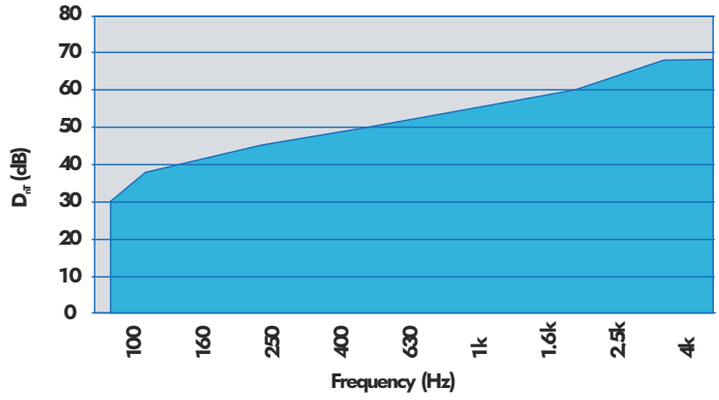


F (Hz)	D_{at} (dB)
125	45.5
250	47
500	55
1K	58.5
2K	64
4K	69.5



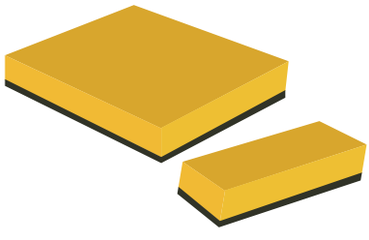
SEPARATION WALL – AIR BORNE SOUND INSULATION VALUES

Designation	:	Separating wall with multi-layer Insulation
Isolation	:	**DANOFON**
Fixation	:	Insulation Fixations
Morter	:	Plaster 1 cm
Weight	:	>150 Kg/m^2
Thickness	:	20-21cm
Insulation	:	U = 0.72 W/m^2K
Airborne Sound insulation	:	D_{nTA} > 53 dBA



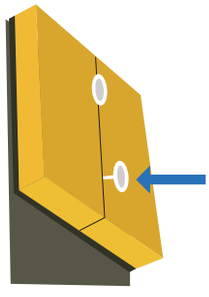
F (Hz)	D_{at} (dB)
125	39
250	44
500	50
1K	53
2K	59
4K	68

INSTALLATION PROCEDURE



Cut the product

Place Against Wall



Clamping Insulation Fixing at overlap

FONODAN BJ

FONODAN BJ is a Multi-Layer Self-Adhesive Tape made of a Chemically Cross Linked Polyethylene Thermally Bonded to High Density Elastomeric Membrane. Acoustically, it works as a Sound Insulating Cover over Pipes and Conduits.

Uses:

Used to Acoustically Insulate Pipes, Conduits, Siphon Tubes and Dampen the Unpleasant Noise Generated by Flowing Fluid especially at Elbows, Junctions, and Spout Corners.

Advantages:

Decreases Unpleasant Noises Produced by the Internal Friction of Fluids in the Down Spout

Low Thickness of 3.9mm makes it Highly Suitable for Application over Complex Pipe Matrix

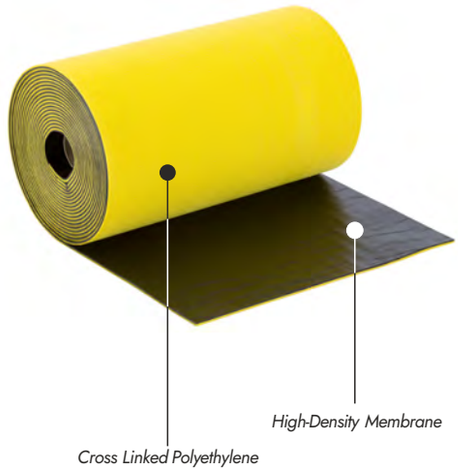
Self-Adhesive Configuration makes Application Easier and User Friendly Saving Cost of Application, Auxiliaries and Handling

Pre-Fabricated Configuration Reduces Material Wastage during Application making it Cost Effective

Provides Enhanced Acoustic Performance at Areas of Maximum Noise Level Generated by Fluid Impact at Joints, Elbows, Bends and Junctions

Reduces Noise Generated from Siphon Tube and Pipes taken down within False Ceilings and Inspection Chambers

Possesses Anti-Resonant Property and Dampens Vibrations by Providing Acoustic Mass to the Pipe.



TECHNICAL DATA

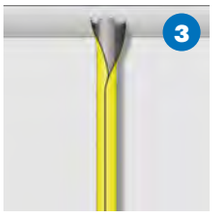
TECHNICAL DATA	VALUE	UNIT	STANDARD
Nominal Mass	1400	g/ml	EN1849-1
Thickness	4	mm	EN 1923
Thickness Tolerance	< 5	%	EN 823
Length and Width Tolerance	< 1	%	EN 822
Insert Loss, IL	>12	dB	-
Dynamic Stiffness	≤100	MN/m^3	EN29052-1
Hysteresis Load	> 1.9	Nm	EN3386-1
Remaining Deformation, (24h, 50% Compression, 23°C)	< 35	%	EN1856
Tensile Strength: Longitudinal	> 600	Kpa	EN1798
Work Temperature	> 10	°C	-
Reaction to Fire	Bs1d0	Euroclase	EN13501-1
Cross-Linked Polyethylene Thermal Conductivity	0.040	W/m°K	EN12667 EN12939

TRADE MARK	THICKNESS	ROLL SIZE	ROLLS /PALLET	INSERTION LOSS
FONODAN BJ	3.9 mm	0.42 m x 10 m	32	17 dBA

INSTALLATION PROCEDURE

Cut roll to downspout length taking care to not make the band dirty.

Remove Release Paper.



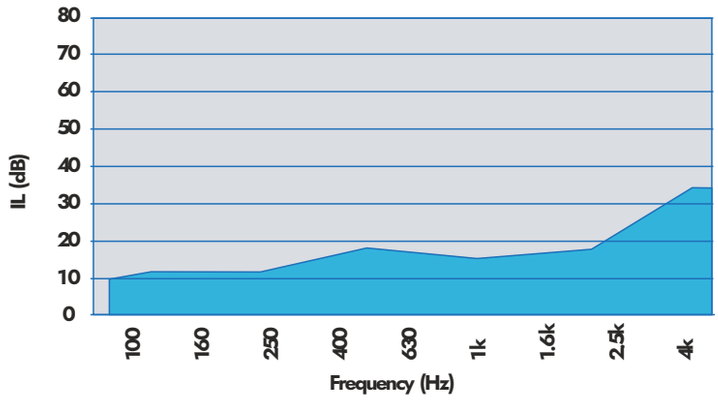
Fit the part with the self-adhesive side facing Downspout.

Secure with FONODAN® 130 tape.

Secure with zip ties.

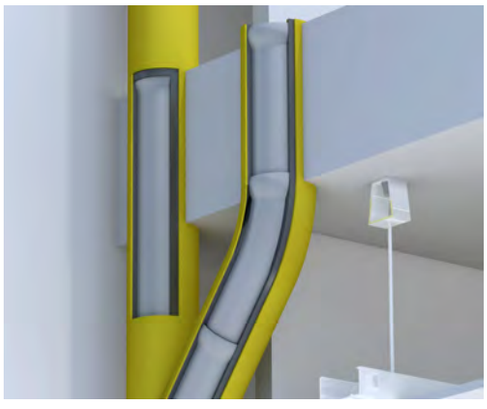
** Maintain Minimum Overlap of 10 mm*

AIR BORNE SOUND INSULATION VALUES

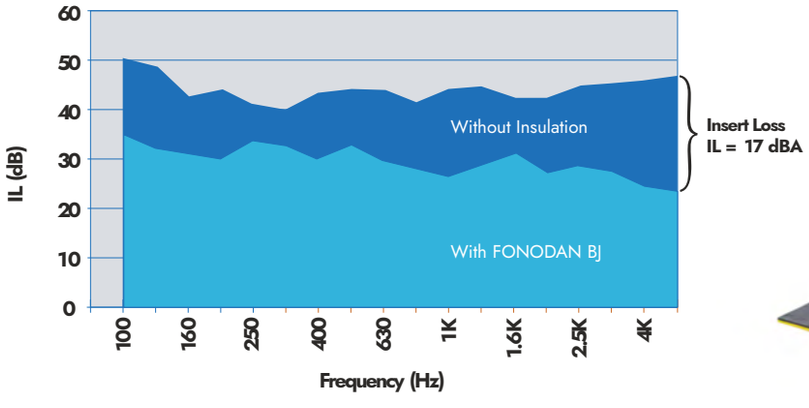


F (Hz)	IL (dB)
125	11.5
250	11.5
500	18.5
1K	16.5
2K	18
4K	25

Values tested "in situ"



INSERT LOSS – NOISE LEVEL DIFFERENCE WITH AND WITHOUT INSULATION



SOUND BARRIER M.A.D

M.A.D—Danosa Acoustic Membrane is High Density Membrane Sheet with High Surface Density. Acoustically it works as a Anti-Resonant Material and is Substitute for Lead Sheets.

Uses:

Used to Absorb and Reduce Mechanical Vibrations thereby Dampening the Noise
Used as **Substitute for Lead Sheets** in between Plaster Boards, Wooden Boards, Metallic Sheets and Porous Insulating Materials
Used for Increasing the Overall Insulation Efficiency of Other Insulating Materials (Fibres, Rock Wool etc.) at Low Frequencies

Advantages:

Excellent Anti-Resonant Property

Provides better Acoustic Performance to Thin Walls

Transforms Acoustic Energy in to Dynamic thereby reducing Low Frequency Irritating Sound which are the most difficult to isolate

Increased Isolation at Low Frequencies enables Reduction in Size of Air Chambers to Minimum thereby Increasing the Usable Area and Saving in Spaces

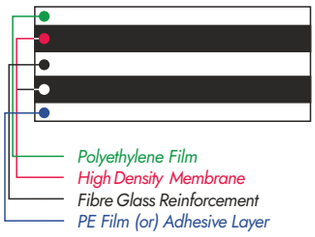
Reduces Level of Radiated Noise when fitted to Panel Surfaces

High Uniform Surface Density Provides Acoustic Mass to Rigid and Metallic Elements and Dampens Vibrations, thereby Effectively Lowering and Removing the Resonance Frequencies

Improves Overall Insulation Efficiency of Other Insulating Materials at Low Frequencies

Self-Adhesive Configuration makes Application Easier and User Friendly Saving Cost of Application, Auxiliaries and Handling

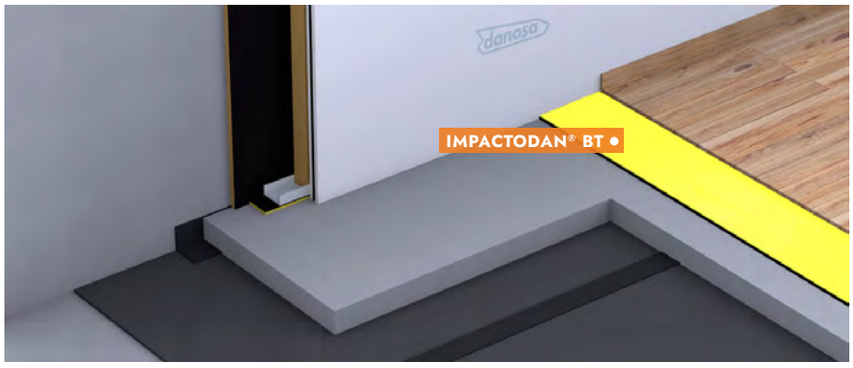
Easier to Use, Cut and Trim and Quick to Install



TRADE MARK	THICKNESS	ROLL SIZE	ROLLS /PALLET	WEIGHT	ACOUSTIC IMPROVEMENT
M.A.D. 2	2mm	12 m x 1 m	30	3.35 kg/m^2	>4 dBA
M.A.D. 4	4mm	6 m x 1 m	30	6.50 kg/m^2	>7 dBA
M.A.D 4 Self Adhesive	4mm	6 m x 1 m	30	6.50 kg/m^2	>7 dBA
M.A.D. 6	6mm	1 m x 4.5 m	28	9.9 kg/m^2	>10 dBA

IMPACTODAN

IMPACTODAN is Resilient Flat Sheet based on Chemically Cross-Linked Closed Cell Polyethylene Membrane. Acoustically it works as Sound Insulating Layer under Concrete Floors



Uses:

Used as Airborne and Impact Sound Insulation under Concrete Floors
Used to Isolate Impact Footfall and Airborne Noise

Advantages:

Economical Installation, Easy and Effective.

Durable Retention of Acoustic Properties and Efficiency even Under Continuous Load and Fatigue Stresses.
Excellent Flexibility
Good Resistance to Tearing.
High Resistance to Moisture and Vapour Diffusion
High Impact Noise Improvement

THICKNESS	ROLL SIZE	DIAMETER OF ROLL	REDUCTION IN TRANSMITTED IMPACT NOISE
5mm	1 m x 15 m	0.20 m	21 dBA
	2 m x 50 m	0.60 m	
10mm	2 m x 25 m	0.60 m	27 dBA

TECHNICAL DATA

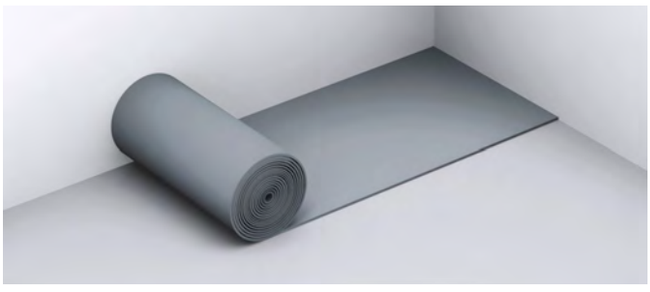
IMPACTODAN 5

TECHNICAL DATA	VALUE	UNIT	STANDARD
Thickness	5	mm	EN1923
Thickness Tolerance	<10	%	EN823
Length and Width Tolerance	< 1	%	EN8722
Reduction of Transmitted Impact Noise, L_n	20	dB	EN140-8 EN717-2
Impact Sound Pressure Level L´nTw, on Site	<60	dB	EN140-7 EN717-2
Dynamic Stiffness	90	MN/m^3	EN29052-1
Density	27± 2	Kg/m^3	EN 845
Hysteresis Load	> 1.6	Nm	EN3386-1
Compression Strength to 25%	> 23± 2	Kpa	UNE ENISO3386-1
Compression Set 24 h, 50% comp., 23°C	< 32	%	EN1856
Tensile Strength	> 180	Kpa	EN1798
Reaction to Fire	F	Euroclase	EN13501-1
Thermal Conductivity	0.040	W/m°K	EN12667 EN12939
Water Diffusion Factor μ	> 2000	-	EN12086
Airborne Sound Insulation Improvement, R_w	8	dB	EN140-16

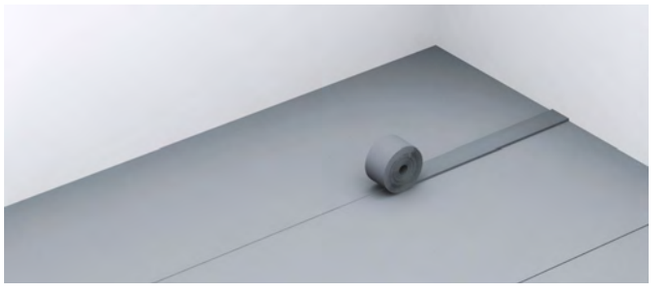
IMPACTODAN 10

TECHNICAL DATA	VALUE	UNIT	STANDARD
Thickness	10	mm	EN1923
Thickness Tolerance	±0.3	%	EN822
Length and Width Tolerance	< 1	%	EN8722
Reduction of Transmitted Impact Noise, L_n	27	dB	EN140-8 EN717-2
Impact Sound Pressure Level L´nTw, on Site	<58	dB	EN140-7 EN717-2
Dynamic Stiffness	<65	MN/m^3	EN29052-1
Density	25± 2	Kg/m^3	EN 845
Hysteresis Load	> 2.1	Nm	EN3386-1
Compression Strength to 25%	> 23± 2	Kpa	UNE ENISO3386-1
Compression Set 24 h, 50% comp., 23°C	< 30	%	EN1856
Tensile Strength	> 130	Kpa	EN1798
Reaction to Fire	F	Euroclase	EN13501-1
Thermal Conductivity	0.040	W/m°K	EN12667 EN12939
Water Diffusion Factor μ	> 2000	-	EN12086
Airborne Sound Insulation Improvement, R_w	8	dB	EN140-16

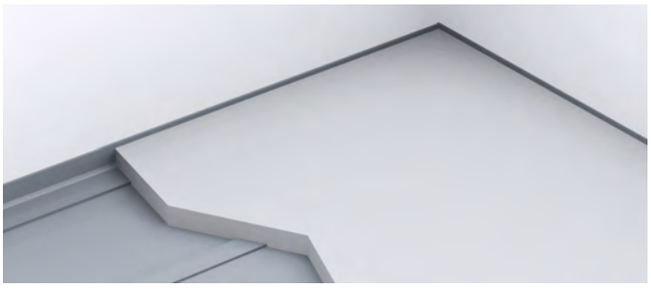
INSTALLATION PROCEDURE



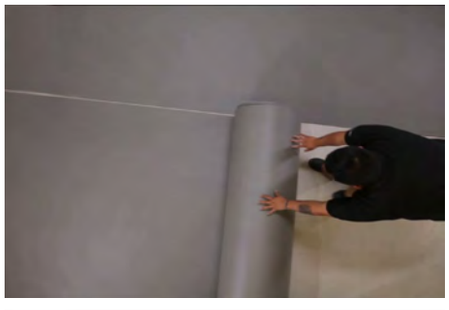
1. Extend the sheet from end to end of the room.

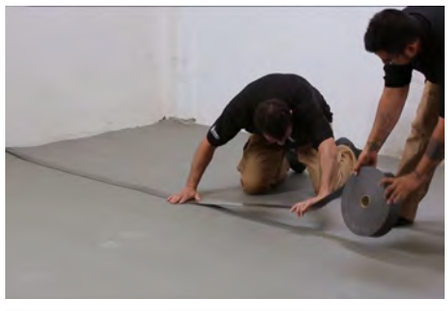


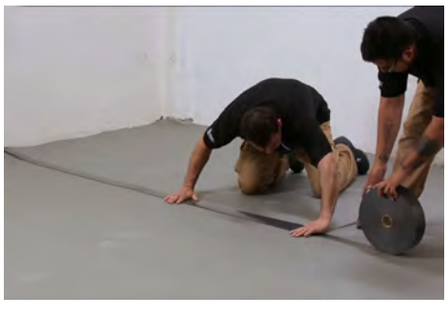
2. Seal sheet joinings with CEALING TAPE

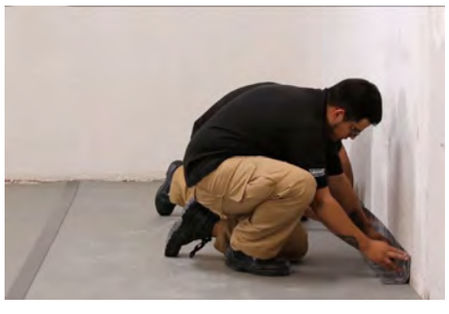


3. Apply next layer of floor, ceiling or wall.









All Corners and Projections should be covered up with IMPACTODAN up to certain vertical height in order Isolate Contact of Hard Floor Covering Surface with any Hard Vertical Surface (Walls, Fixtures, Pipes Installations etc.)

ACOUSTIC INSULATION CONFORDAN

CONFORDAN

CONFORDAN is Resilient Flat Sheet based on Chemically Cross-Linked Closed Cell Polyethylene Membrane Finished Top with Aluminised LDPE Film. Acoustically it works as Sound Insulating Layer under Laminated Floors

Uses:

Used as Thermo-Acoustic Insulating Layer

Used as Anti-Dampness Vapour Barrier under Laminated Flooring

Used as Separation Underlay for Laminate Flooring

Advantages:

Economical Installation, Easy and Effective

High Acoustic Efficiency with Little Thickness

Durable Retention of Acoustic Properties and Efficiency even Under Continuous Load and Fatigue Stresses

Excellent Flexibility

Good Resistance to Tearing

High Resistance to Moisture and Vapour Diffusion

Aluminium Finish reduces build-up of Static Electricity

The Aluminium Joint Sealing Tape Dissipates Static Electrical Charges and Prevents Charge Built Up between Insulation and Flooring Substrate

Impact Noise Improvement > 18 dBA

Lightweight

Provides Acoustic as well as Thermal Comfort (Insulation)

Ideal for Both New Floors and Refurbished Floors

TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Thickness	3	mm	EN1923
Thickness Tolerance	< 10	%	EN 823
Length and Width Tolerance	< 10	%	EN 822
Reduction of Transmitted Impact Noise, L_n	18	dB	EN140-8 EN717-2
Dynamic Stiffness	≤100	MN/m^3	EN29052-1
Density	40± 10%	Kg/m^3	EN 845
Hysteresis Load	> 1.9	N/m	EN3386-1
Water Absorption under Hydro-static Pressure	1.66	%	EN12087
Water Diffusion Factor,	> 2000	-	EN-12086
Compression Strength to 25%	50	KPa	UNE ENISO3386-1
Compression Set 24h, 50%comp., 23°C	< 10	%	EN1856
Tensile Strength	> 240	Kpa	EN1798
Reaction to Fire	F	Euroclase	EN13501-1
Thermal Conductivity	0.040	W/m^0K	EN12667 EN12939

TRADE MARK	ROLL SIZE	DIAMETER OF ROLLS	REDUCTION IN TRANSMITTED IMPACT NOISE
CONFORDAN	25m x 0.95m 15m x 0.95m	0.20m	18 dB

FONODAN 50

FONODAN50 is a Multi-Layer Self-Adhesive Tape made of a Chemically Cross Linked Polyethylene Thermally Bonded to High Density Elastomeric Membrane. Acoustically it works as Acoustic Buffer for the Rigid Connection between Plasterboard and Steel Profile Minimising the Resonance.

Uses:

Used to Reduce Impact Noise in Half Pallets
Used to Provide Moisture and Vapour Barrier Properties to Steel Profiles
Used as Waterproofing and Expansion Band
Used for Improving Laminar Structure Plaster Acoustically.
Used to Provide Noise Dampening to Metallic Structures in Tile Roofs

Advantages:

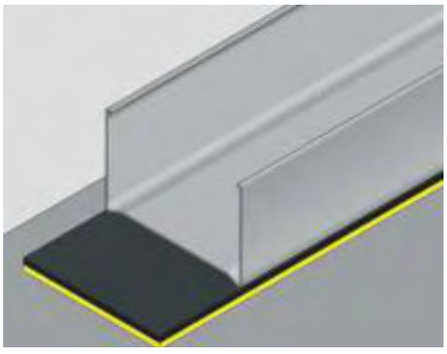
Economical Installation, Easy and Effective.
High Acoustic Efficiency with Little Thickness
Excellent Flexibility
Good Resistance to Tearing.
High Resistance to Moisture and Vapour Diffusion
Self Adhesive Configuration makes Application Easier and User Friendly Saving Cost of Application
Pre-Fabricated Configuration Reduces Material Wastage during Application making it Cost Effective
Dampens and Minimises Plate Hollow Sound
Provides Enhanced Insulation to Traditional Plaster Board Systems by Dampening Vibrations at Junction between Two Rigid Elements (Plate/Profile)

TRADE MARK	THICKNESS	ROLL SIZE	ROLLS /PALLET	ACOUSTIC IMPROVEMENT
FONODAN 50	3.9mm	0.046 m x 10 m	252	> 3dBA

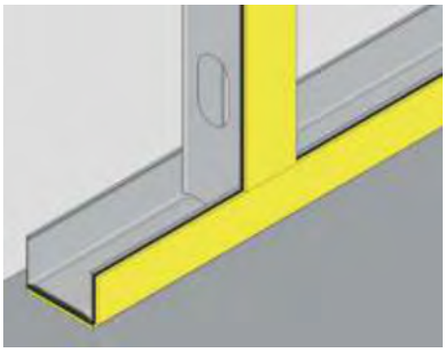
TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Nominal Mass	175	g/ml	EN1849-1
Thickness	4	mm	EN1923
Thickness Tolerance	< 5	%	EN 823
Length and Width Tolerance	< 1	%	EN 822
Airborne Sound Insulation Improvement, ΔR_w	> 3	dB	EN140-16
Dynamic Stiffness	≤100	MN/m^3	EN29052-1
Hysteresis Load	> 1.9	Nm	EN3386-1
Remaining Deformation, (24h, 50% Compression, 23°C)	< 35	%	EN1856
Tensile Strength: Longitudinal	> 600	N/5cm	EN12311-1
Work Temperature	> 10	°C	-
Reaction to Fire	F	Euroclase	EN13501-1
Cross-Linked Polyethylene Thermal Conductivity	0.040	W/m°K	EN12667 EN12939

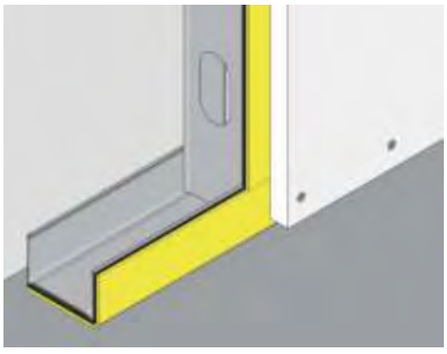
INSTALLATION PROCEDURE



Remove Release Paper Stick on Horizontal Metal profile



Stick on Vertical Metal Profile



Fix the Panel Board

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- Flooring
- Landscape and Protection

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