

POINT

UNDER SCREED ACOUSTIC INSULATION

UNDER SCREED

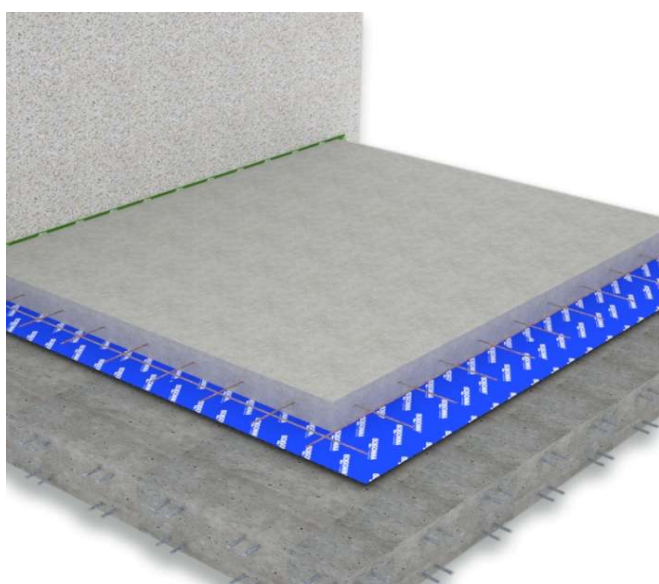
IMPACT NOISE ACOUSTIC INSULATION WITH HIGH MECHANICAL PERFORMANCES CONSISTING OF SHAPED PANELS COMPOSED OF SBR RUBBER GRANULES

■ TECHNICAL SPECIFICATION

Acoustic insulation supplied in panels with a dimpled shape on one side with a thickness of 18 mm, made of SBR fibres and granules compacted using a polyurethane binder in a hot process. A blue synthetic non woven anti-stretch backing is applied on the upper side. The dimensions of the panels are 100 cm x 120 cm; total superficial weight is 6,7 kg/m² and dynamic stiffness (s') is 16 MN/m³.



CE
ETA - 19/0509



■ CERTIFIED ACOUSTIC IMPROVEMENT

Designed for use in commercial floors, it resists to high loads. CE certificate

■ FLEXIBILITY

The particular shape allows a high acoustic performance even in the presence of heavy concentrated loads

■ LAYING COSTS REDUCTION

The size of the panel and the ease of cutting due to the shaped shape allow to optimize installation times

■ TO BE USED WITH

Under screed solutions for high thickness floors for commercial, residential and industrial use

■ TECHNICAL DATA

Thickness	18 mm
Length	1,00 m
Width	1,20 m
Mass per unit area	6,7 kg/m ²

Dynamic stiffness s'	16 MN/m ³
Compressibility c	2,2 mm
Impact sound pressure level attenuation ΔL _w	28 dB
Reaction to fire	E
Thermal conductivity coefficient λ	0,120 W/m K



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INSTALLATION INSTRUCTIONS FOR POINT

- 1 Apply the adhesive strip to the wall and floor with particular attention in the corners



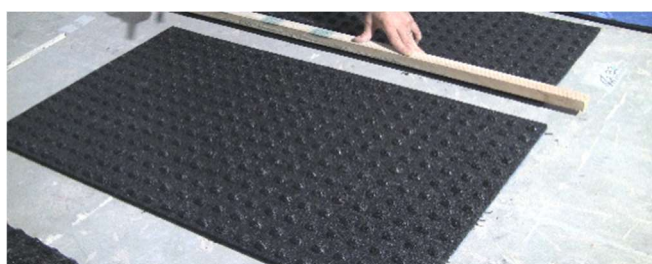
- 2 Install the acoustic mat with dimpled side facing down



- 3 Install the insulation on the whole floor, without leaving any gaps between adjacent panels



- 4 Cut the panels on the underside using a knife



- 5 Seal the joints between panels with Stik tape.



- 6 Build the screed. If necessary reinforce the screed with a steel mesh



- 7 Install the floor finishing (ceramic or wood).



- 8 Cut the exceeding part of the edging strip



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PHYSICAL AND MECHANICAL CHARACTERISTICS OF THE PRODUCT

■ PHYSICAL CHARACTERISTICS

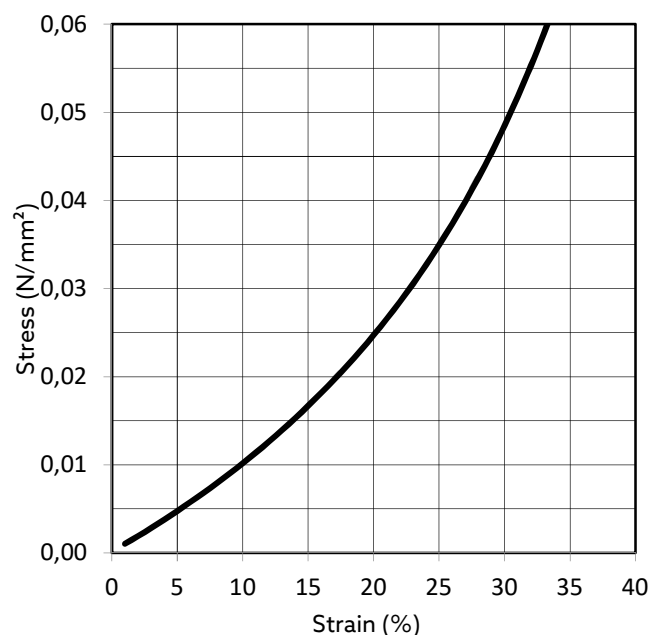
Thickness	EN 12431	mm	18	± 10%
Length	EN 822	m	1,00	± 0,01
Width	EN 822	m	1,20	± 0,01
Mass per unit area	EN 1602	kg/m ²	6,70	± 10%

■ TECHNICAL CHARACTERISTICS

Compressibility c	EN 12431	mm	2,2
Creep deformation at time Xct - 10 years	EN 1606	mm	0,34
Strain at time ε_t - 10 years	EN 1606		4,4%
Thermal conductivity coefficient λ	EN 12667	W /m K	0,120
Reaction to fire	EN 13501-1		E
Deflection at maximum load		mm	< 5
Maximum traffic load		kg/m ²	≤ 5.000

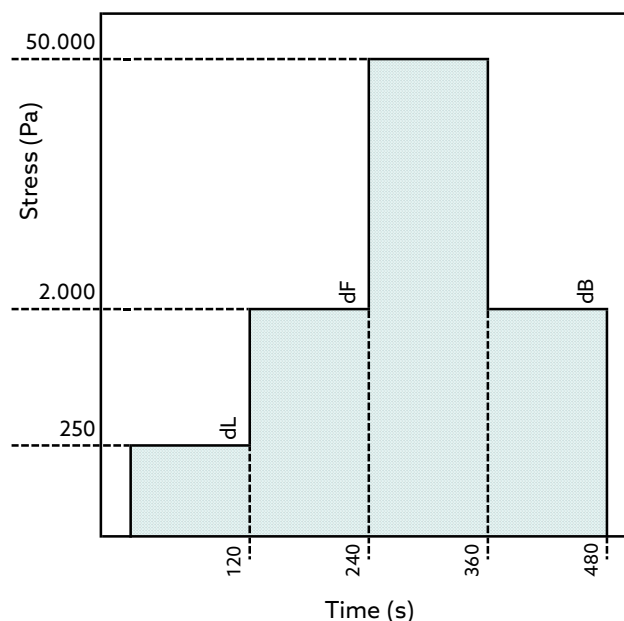
Load	N/mm ²	0,0045	0,0135	0,0225	0,0315	0,0405	0,0495	0,0586	0,0315	0,0180	0,0068
Settlement	mm	-	1,4	2,4	3,1	3,6	4,1	4,4	3,6	2,6	1,0
Bedding modulus	MN/m ³	-	9,7	9,4	10,2	11,3	12,1	13,3	8,8	6,9	6,8

■ COMPRESSION BEHAVIOR



Stress at 10%	σ_{10}
EN 826	kPa $\geq 10,2 \pm 10\%$

■ THICKNESS AND COMPRESSIBILITY



Thickness		dL	dF	dB	
UNI EN 12431	mm	18.4	16.9	16.1	± 10%

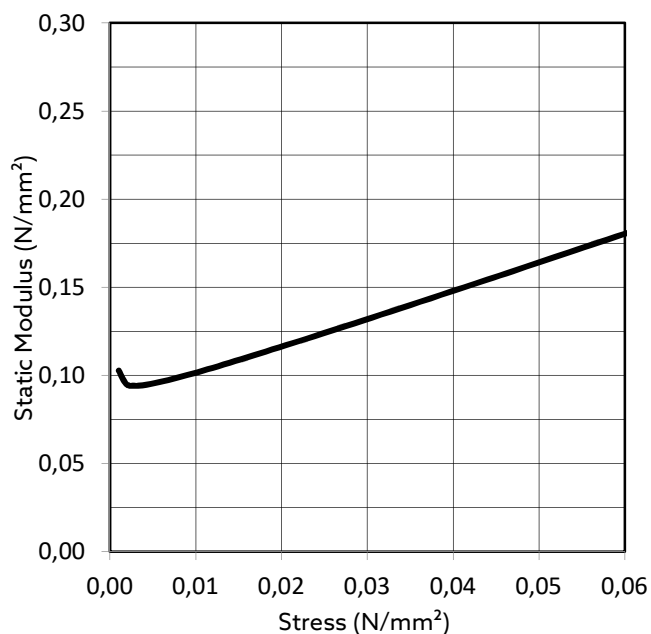
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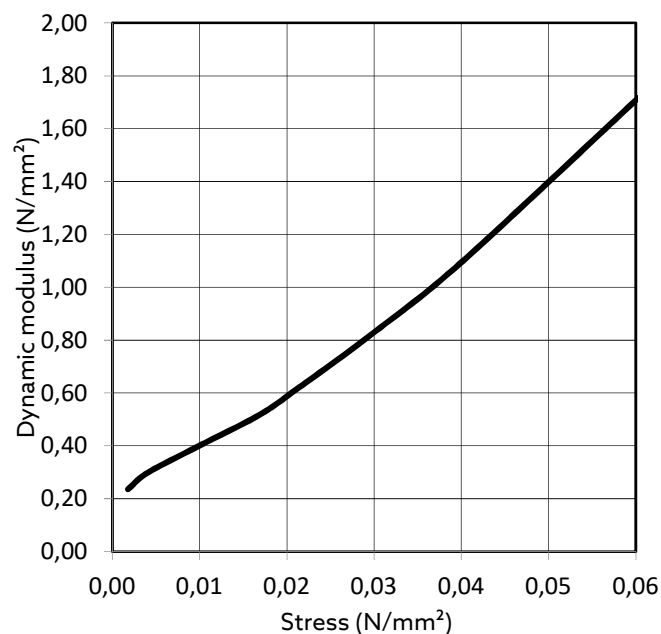


STATIC AND DYNAMIC CHARACTERISTICS OF THE PRODUCT

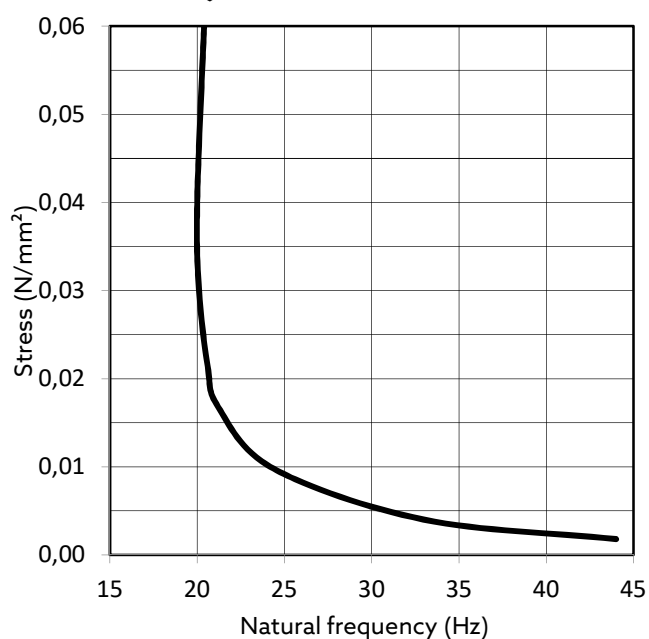
■ STATIC MODULUS



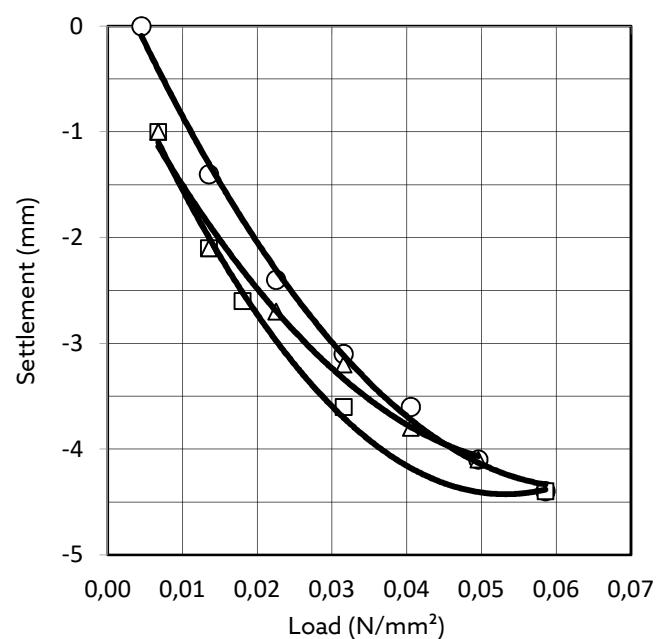
■ DYNAMIC MODULUS



■ NATURAL FREQUENCY



■ SETTLEMENT ACCORDING TO DIN 18134



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ACOUSTIC CHARACTERISTICS OF THE PRODUCT

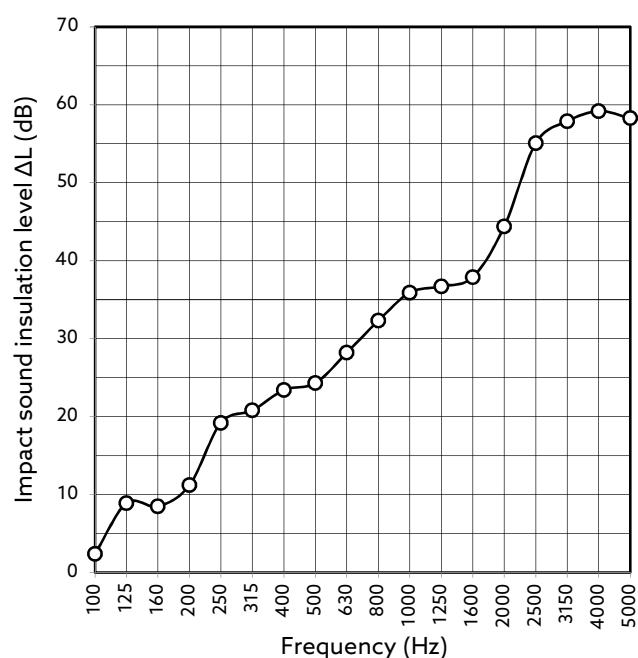
DYNAMIC STIFFNESS

Tested in the Isolgamma laboratory

UNI EN 29052-1

$s' = 16 \text{ MN/m}^3$

IMPACT SOUND PRESSURE LEVEL ATTENUATION



ON REFERENCE STANDARD FLOOR

Frequency Hz	ΔL dB
100	2,4
125	8,9
160	8,5
200	11,2
250	19,2
315	20,8
400	23,4
500	24,3
630	28,2
800	32,3
1000	35,9
1250	36,7
1600	37,9
2000	44,4
2500	55,1
3150	57,9
4000	59,2
5000	58,3

EN ISO 10140-3 Laboratory measurement of the acoustic insulation of building elements. Impact sound insulation measurement

Evaluation index of the reduction of standardized level of impact noise EN ISO 717-2:

$\Delta L_w = 28 \text{ dB}$

Test description:
 - 150 mm reinforced concrete floor
 - Point
 - 100 mm sand-cement screed

Test Report Istituto Giordano n. 381698