

ROLL

UNDER SCREED ACOUSTIC INSULATION



PHYSICAL AND MECHANICAL CHARACTERISTICS OF THE PRODUCT

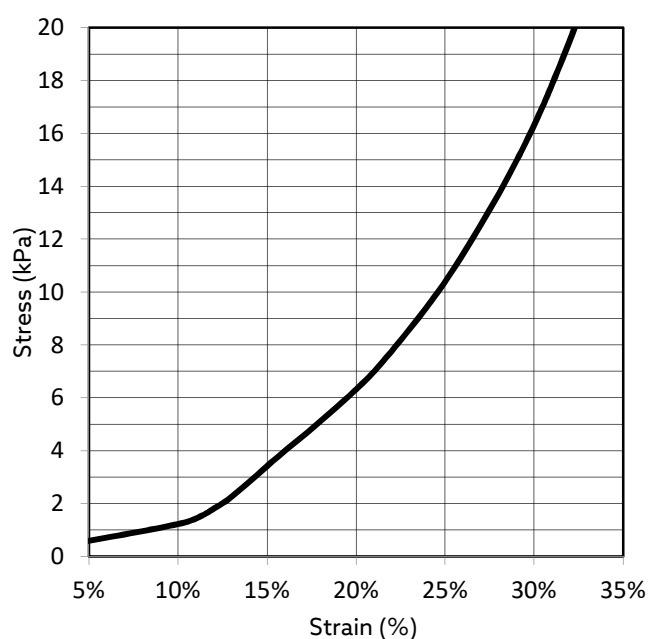
PHYSICAL CHARACTERISTICS

Thickness	EN 12431	mm	5	± 10%
Length	EN 822	m	5,00	-0 /+3%
Width (including 4 cm overlapping band)	EN 822	m	1,04	± 0,8%
Mass per unit area	EN 1602	kg/m ²	1,90	± 10%

TECHNICAL CHARACTERISTICS

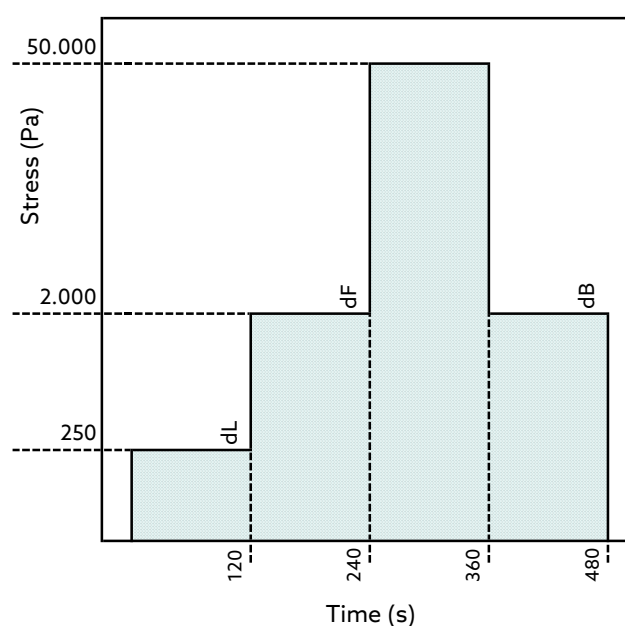
Compressibility c	EN 12431	mm	1,2
Creep deformation at time Xct - 10 years	EN 1606	mm	0,7
Strain at time ϵ_t - 10 years	EN 1606		28%
Thermal conductivity coefficient λ	EN 12667	W /m K	0,094
Water vapour diffusion resistance factor μ	EN 12086		10
Water vapour transmission Sd	EN 12086	m	0,05
Reaction to fire	EN 13501-1		E
Maximum traffic load		kg/m ²	≤ 3.000

COMPRESSION BEHAVIOR



Stress at 10%	σ_{10}
EN 826	kPa $\geq 1,25 \pm 10\%$

THICKNESS AND COMPRESSIBILITY



Thickness	dL	dF	dB
EN 12431	mm 5,8	5,2	4,8 ± 10%

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ACOUSTIC CHARACTERISTICS OF THE PRODUCT

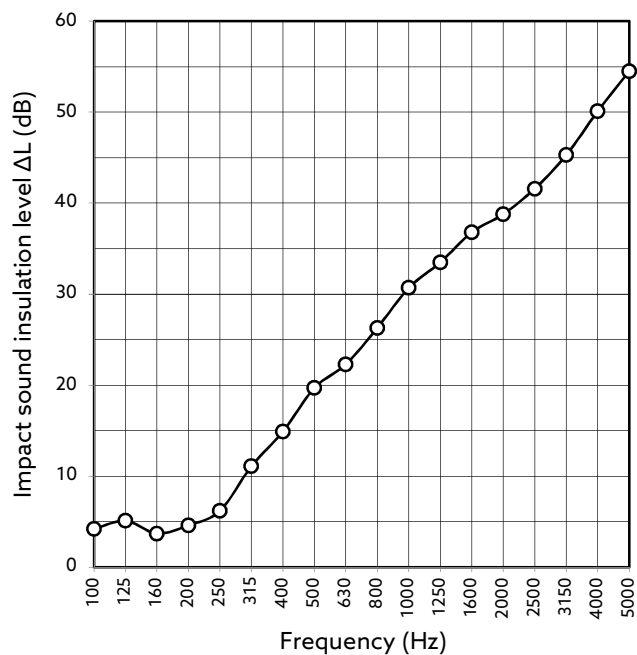
■ DYNAMIC STIFFNESS

Test Report Istituto Giordano n. 381961

UNI EN 29052-1

$s' = 21 \text{ MN/m}^3$

■ IMPACT SOUND PRESSURE LEVEL ATTENUATION



ON REFERENCE STANDARD FLOOR

Frequency Hz	ΔL dB
100	4,2
125	5,1
160	3,7
200	4,6
250	6,2
315	11,1
400	14,9
500	19,7
630	22,3
800	26,3
1000	30,7
1250	33,5
1600	36,8
2000	38,8
2500	41,6
3150	45,3
4000	50,1
5000	54,5

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:

$\Delta L_w = 22 \text{ dB}$

Test description:
 - 150 mm reinforced concrete floor
 - Roll
 - 50 mm sand-cement screed

Test Report Istituto Giordano n. 381697