

RUBISOL

UNDER SCREED ACOUSTIC INSULATION



PHYSICAL AND MECHANICAL CHARACTERISTICS OF THE PRODUCT

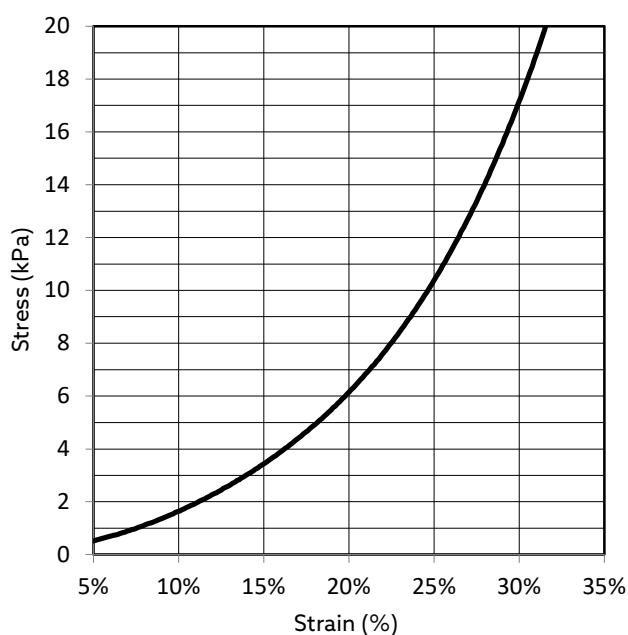
■ PHYSICAL CHARACTERISTICS

Thickness	EN 12431	mm	9	± 10%
Length	EN 822	m	5.00	-5 / + ∞ %
Width (including 4 cm overlapping band)	EN 822	m	1.04	± 0,8%
Mass per unit area	EN 1602	kg/m ²	3.00	± 10%

■ TECHNICAL CHARACTERISTICS

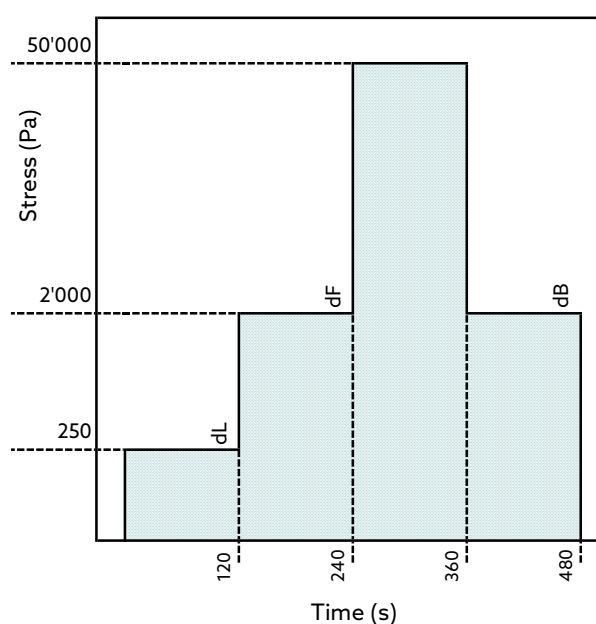
Compressibility c	EN 12431	mm	1.5
Creep deformation at time Xct - 10 years	EN 1606	mm	1.1
Strain at time ε_t - 10 years	EN 1606		25%
Thermal conductivity coefficient λ	EN 12667	W / m K	0.096
Water vapour diffusion resistance factor μ	EN 12086		10
Water vapour transmission Sd	EN 12086	m	0.05
Reaction to fire	EN 13501-1		E
Maximum traffic load		kg/m ²	≤ 3.000

■ COMPRESSION BEHAVIOR



Stress at 10%	σ_{10}
EN 826	kPa $\geq 1,54 \pm 10\%$

■ THICKNESS AND COMPRESSIBILITY



Thickness	dL	dF	dB
EN 12431	mm 8.7	7.7	7.2 ± 10%

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ACOUSTIC CHARACTERISTICS OF THE PRODUCT

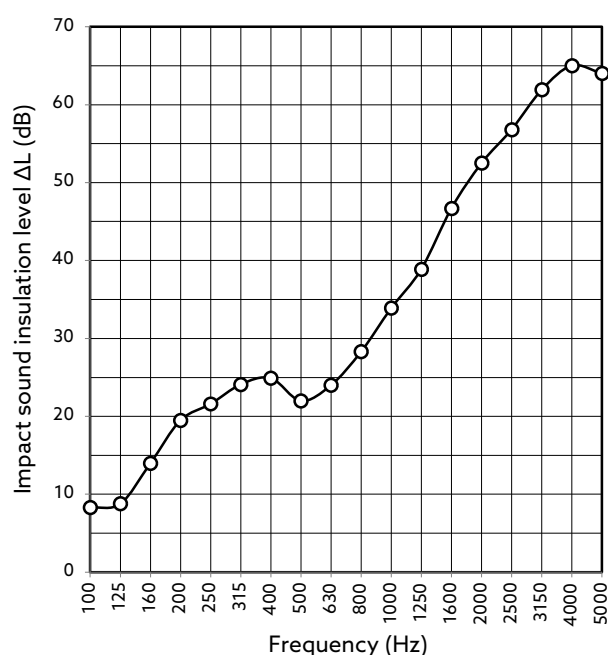
DYNAMIC STIFFNESS

Test Report Isolgamma

UNI EN 29052-1

$s' = 13 \text{ MN/m}^3$

IMPACT SOUND ATTENUATION



WITH LEVELLING SCREED

Frequency Hz	ΔL dB
100	8,3
125	8,8
160	14,0
200	19,5
250	21,6
315	24,1
400	24,9
500	22,0
630	24,0
800	28,3
1000	33,9
1250	38,9
1600	46,7
2000	52,5
2500	56,8
3150	61,9
4000	65,0
5000	64,0

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

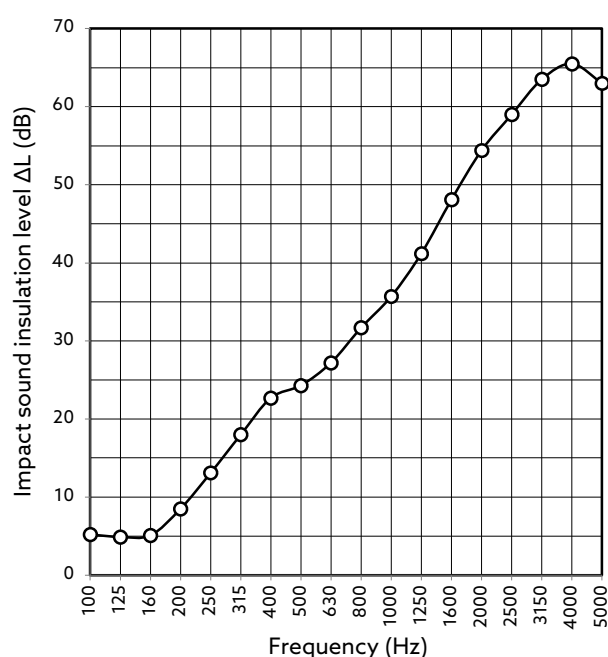
Evaluation index of the reduction of standardized level of impact noise EN ISO 717-2:

$\Delta L_w \geq 31 \text{ dB}$

Test description:
 - 140 mm reinforced concrete floor
 - 80 mm levelling screed
 - Isolgamma RUBISOL
 - 60 mm sand-cement screed

Test Report Buildwise N. AC-23-055-01

IMPACT SOUND ATTENUATION



FLOATING SCREED ONLY

Frequency Hz	ΔL dB
100	5,2
125	4,9
160	5,1
200	8,5
250	13,1
315	18,0
400	22,7
500	24,3
630	27,2
800	31,7
1000	35,7
1250	41,2
1600	48,1
2000	54,4
2500	59,0
3150	63,5
4000	65,5
5000	63,0

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:

$\Delta L_w \geq 25 \text{ dB}$

Test description:
 - 140 mm reinforced concrete floor
 - Isolgamma RUBISOL
 - 60 mm sand-cement screed

Test Report Buildwise N. AC-23-055-02