

# GREI

## UNDER SCREED ACOUSTIC INSULATION



### PHYSICAL AND MECHANICAL CHARACTERISTICS OF THE PRODUCT

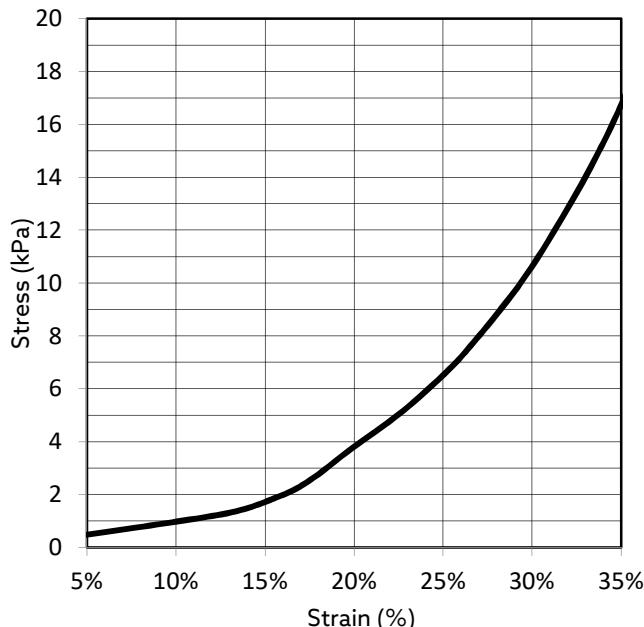
#### ■ PHYSICAL CHARACTERISTICS

Thickness	EN 12431	mm	7	$\pm 10\%$
Length	EN 822	m	5,00	-0 / +3%
Width (including 4 cm overlapping band)	EN 822	m	1,04	$\pm 0,8\%$
Mass per unit area	EN 1602	kg/m <sup>2</sup>	2,80	$\pm 10\%$

#### ■ TECHNICAL CHARACTERISTICS

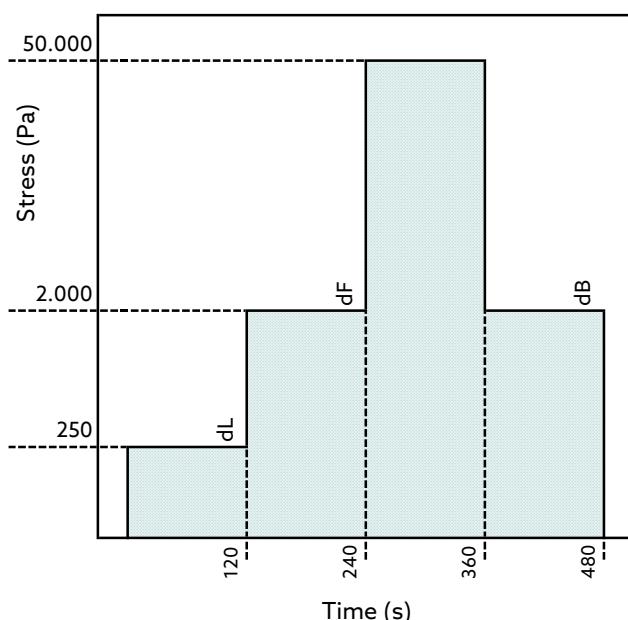
Compressibility c	EN 12431	mm	2,0
Creep deformation at time Xct - 10 years	EN 1606	mm	1,1
Strain at time $\varepsilon_t$ - 10 years	EN 1606		25%
Thermal conductivity coefficient $\lambda$	EN 12667	W/m K	0,064
Water vapour diffusion resistance factor $\mu$	EN 12086		10
Water vapour transmission Sd	EN 12086	m	0,05
Reaction to fire	EN 13501-1		E
Maximum traffic load		kg/m <sup>2</sup>	$\leq 3.000$

#### ■ COMPRESSION BEHAVIOR



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

#### ■ THICKNESS AND COMPRESSIBILITY



Thickness	dL	dF	dB
UNI EN 12431	mm	9,1	7,7

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### ACOUSTIC CHARACTERISTICS OF THE PRODUCT

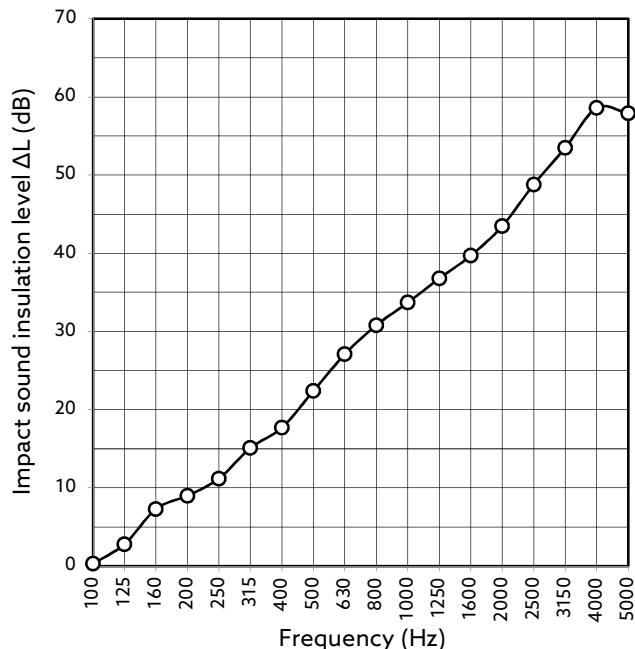
#### DYNAMIC STIFFNESS

Test Report Istituto Giordano n. 381960

UNI EN 29052-1

$s' = 8 \text{ MN/m}^3$

#### IMPACT SOUND PRESSURE LEVEL ATTENUATION



#### ON REFERENCE STANDARD FLOOR

Frequency Hz	ΔL dB
100	0,3
125	2,8
160	7,3
200	9,0
250	11,2
315	15,1
400	17,7
500	22,4
630	27,1
800	30,8
1000	33,7
1250	36,8
1600	39,7
2000	43,5
2500	48,8
3150	53,5
4000	58,6
5000	57,9

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:

$\Delta L_w \geq 24 \text{ dB}$

Test description:  

- 150 mm reinforced concrete floor
- Grei
- 50 mm sand-cement screed

Test Report Istituto Giordano n. 381696