



DAMPROLL

Rubber matting
for insulation against
impact sound

- EXCELLENT INSULATION CAPACITY
 - HIGH MASS
- EXCELLENT MECHANICAL RESISTANCE
 - COMPRESSIBILITY < 5%
 - ECO-FRIENDLY
 - EASY TO INSTALL

DAMPER
system
ACOUSTIC
INSULATION



recycled rubber

DAMPROLL

Description

DAMPROLL is a rubber mat supplied in rolls, for preventing impact sound.

The use of a noble polymer-based binder with very high elasticity, along with the innovative surface of the mat, allow a high level of impact sound insulation which lasts well over time.

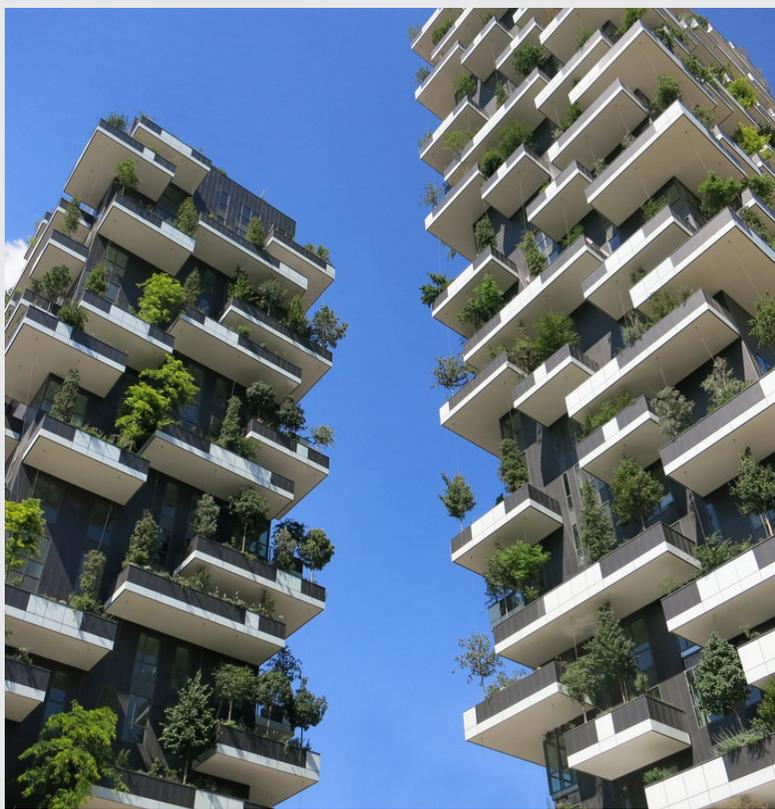
DAMPROLL is made with rubber granules obtained from used tyres. It is characterized by a «skin» surface on the upper side and a «rough» finish on the side in direct contact with the surface to be insulated.

Use

DAMPROLL is used to create high-performance packages, as a resilient horizontal layer of separation.

Installation

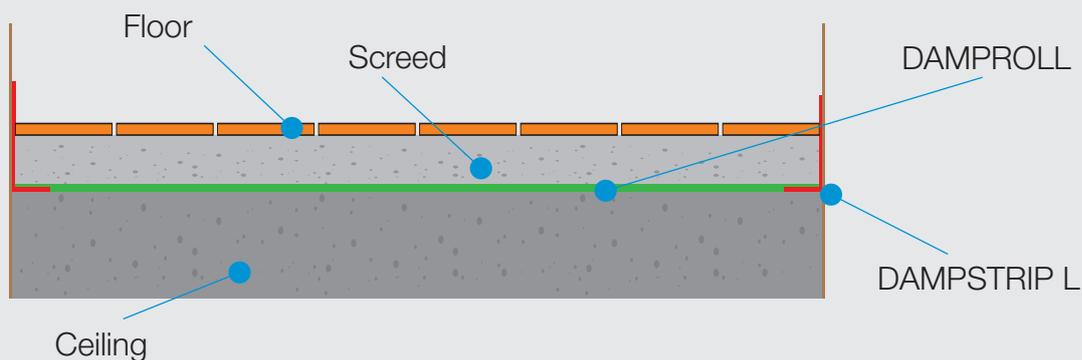
- Apply DAMP STRIP L to the perimeter of the room to be insulated at the point of contact between the mat and the walls.
- Roll out the DAMPROLL mat with the smooth surface facing up.
- Pull the rolls flat and apply the special DAMP SCOTCH tape to the joins.



VERTICAL FOREST (MILAN)
Acoustic insulation against impact sound with DAMPROLL matting



Detail of DAMPROLL matting installation
VERTICAL FOREST (MILAN)



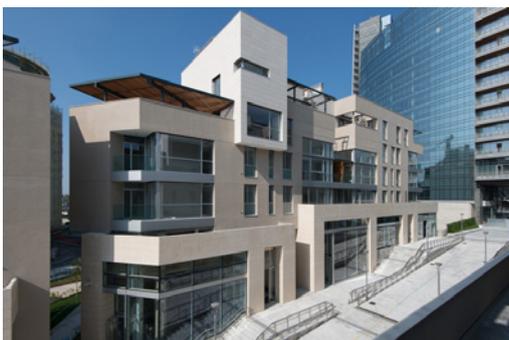


DAMPROLL

NOMINAL THICKNESS	UNI EN ISO 12431	[mm]	3	5	8	10
LENGTH		[cm]		800		600
WIDTH		[cm]		125		
SURFACE		[m ²]		10		7,5
SOFTENING AT IMPACT LEVEL – ΔL_w Tests on standardized ceiling	UNI EN ISO 10140 ex 140/8	[dB]	20	26	27	28
SOFTENING AT IMPACT LEVEL – ΔL Testing of brick and cement floor	UNI EN ISO 10140 ex 140/6	[dB]	28	36	38	39
DYNAMIC STIFFNESS	UNI EN ISO 29052	[MN/m ³]	35	18	15	13
COMPRESSIBILITY	UNI EN ISO 12431	[mm]	0,10	0,20	0,40	0,70
NOMINAL DENSITY		[kg/m ³]	720	600	500	500
NOMINAL WEIGHT PER M _q		[kg]	2,15	3,00	4,00	5,00
TEMPERATURE RESISTANCE		[°C]		from - 20 a + 80		
REACTION TO FIRE 2000/147/CE		[CLASSE]		F		
THERMAL CONDUCTIVITY – λ	UNI EN 12667	[W/m ² K]		0,099		
VAPOUR RESISTANCE FACTOR – μ	UNI EN 12086	[W/m ² K]		20		



▲ Installation of DAMPROLL matting at the **UNIVERSITY OF LECCO** accommodation



▲ Installation of DAMPROLL matting at the **ARKETIPO** project

Packaging

ASPECT	mat roll			
NOMINAL THICKNESS	3	5	8	10
Rolls per pallet	36	25	16	16
Weight per pallet	778	750	640	600
M ² per pallet	360	250	160	120
Pallet dimensions	120 cm x 120 cm x 140 cm			
Each roll is individually wrapped with white expandable PE				
Each pallet is individually wrapped with white expandable PE				

Storage

Store and keep away from direct sunlight

Care and Safety

The product is not subject to the obligation set out in Directive 67/648/EEC. The compound does not contain formaldehyde, carbide fluorine, mercury or similar. It does not emit toxic fumes.



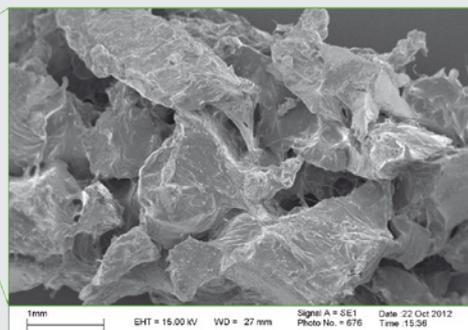
Rubber matting for noise insulation against impact sound

DAMPROLL

Rubber matting
for noise insulation
against
impact sound

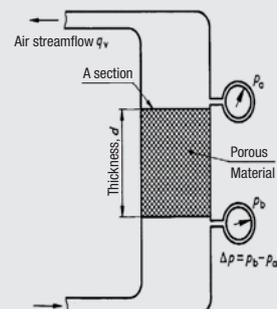


Morphology and structure of DAMPROLL
using SEM electronic
microscope scanning

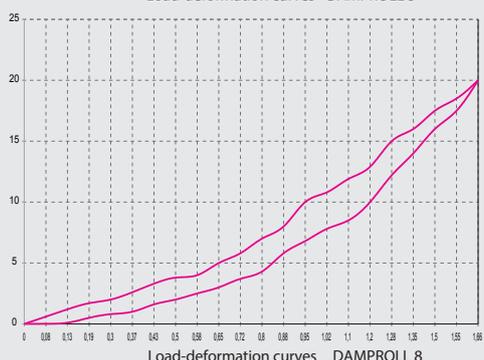
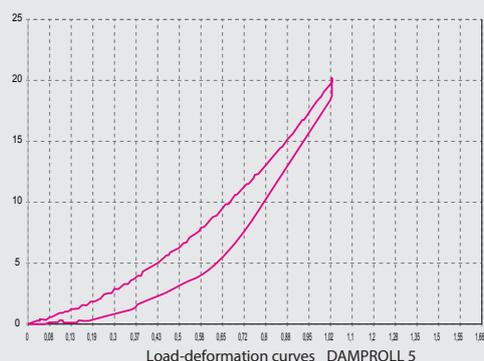


Conversion from apparent dynamic stiffness to real dynamic stiffness as a function of the flow resistivity.

The flow resistivity is dependent on the intrinsic properties of the material. A process was set up to measure the resistance to air flow (in standard EN ISO 29053) as a function of static load applied. DAMPROLL's resistivity to the flow of air «at compression» was checked, in order to discover the real behaviour of air within the material under operating conditions, i.e. under static load. This measurement was made by considering the peculiarity of the rubber material: the rubber granules are bound by a polymeric film, so the material is not classifiable as either fibrous or as porous (open cell), and has a considerable thickness associated with high porosity. The experiments carried out determined the resistance to flow, and then the resistivity as a function of the increase in static load applied. Since the data flow resistivity measured is much less than $10 \text{ kPa} \cdot \text{s} / \text{m}^2$, and the dynamic stiffness of the air $s'a$ is significantly lower than that of the material, the data of apparent dynamic stiffness measured $[s't]$ coincides with the real dynamic stiffness of the material $[s']$.



Load-deformation curves



DAMPROLL certificates

ANTI-IMPACT

5 mm certificate n° 035/10

8 mm certificate n° 038/11

labo ciriaf

COMPRESSIBILITY

5 mm certificate n° 23107

8 mm certificate n° 23108

labo ricet

DYNAMIC STIFFNESS

5 mm certificate n° 015

8 mm certificate n° 016

labo PdB



24050 Mornico Al Serio (BG) - I - Via Fornace
Tel. +39 035 4490440 - Fax +39 035 4490752

www.projectforbuilding.com - info@projectforbuilding.com

