

AKUSTIK® - PE



THICKNESS	3, 5, 10 mm (Any other on request)
HEIGHT	1080/1500 mm 3 mm thick; 1500 mm 5 and 10 mm thick
LENGTH	mtl 150 th. 3 mm; mtl 100 th. 5 mm; mtl 50 th. 10 mm; Other upon request.
COLORE	charcoal grey
REACTION TO FIRE	F, (on request B-s1,d0)
DYNAMIC STIFFNESS	sp. 5 mm: $s' = 34 \text{ MN/m}^3$ sp. 10 mm: $s' = 28 \text{ MN/m}^3$
RESONANCE FREQUENCY	sp. 5 mm: $64 f_r [\text{Hz}]$ sp. 10 mm: $58 f_r [\text{Hz}]$
THERMAL CONDUCTIVITY	$\lambda = 0,035 \text{ W/mK}$
DENSITY	33 Kg/m^3
THERMAL RESISTANCE	-80 + 100°C

CROSS-LINKED EXPANDED POLYETHYLENE WITH CELL-CLOSED STRUCTURE FOR SOUND AND THERMAL INSULATION

MATERIAL

L'Akustik®-PE is a chemically cross-linked polyethylene with a cell-closed structure, density 33 Kg/m^3 , high compression resistant material with a reduced permanent deformation (on request phisically cross-linked available).

This product can be supplied with a protective embossed black film on one side to increase its tensile strength and resistance to impacts, or with an aluminium coating to improve its heat reflecting power.

FIELDS OF APPLICATION

Akustik®-PE is widely used as intermediate layer between the underfloor and the floor to avoid footfalls noises. It is a very good product for floating floors and parquets.

Akustik®-PE is also an excellent heat and sound insulator for casings, channellings and plant engineering in general.

INSTALLATION

Akustik®-PE features a flexible matrix which facilitates cutting to size and therefore it can be easily shaped.

The product can be supplied with one self-adhesive side to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue. It is recommended to apply the L-shaped polyethylene perimeter band AKUSTIK BORDER on the perimeter.

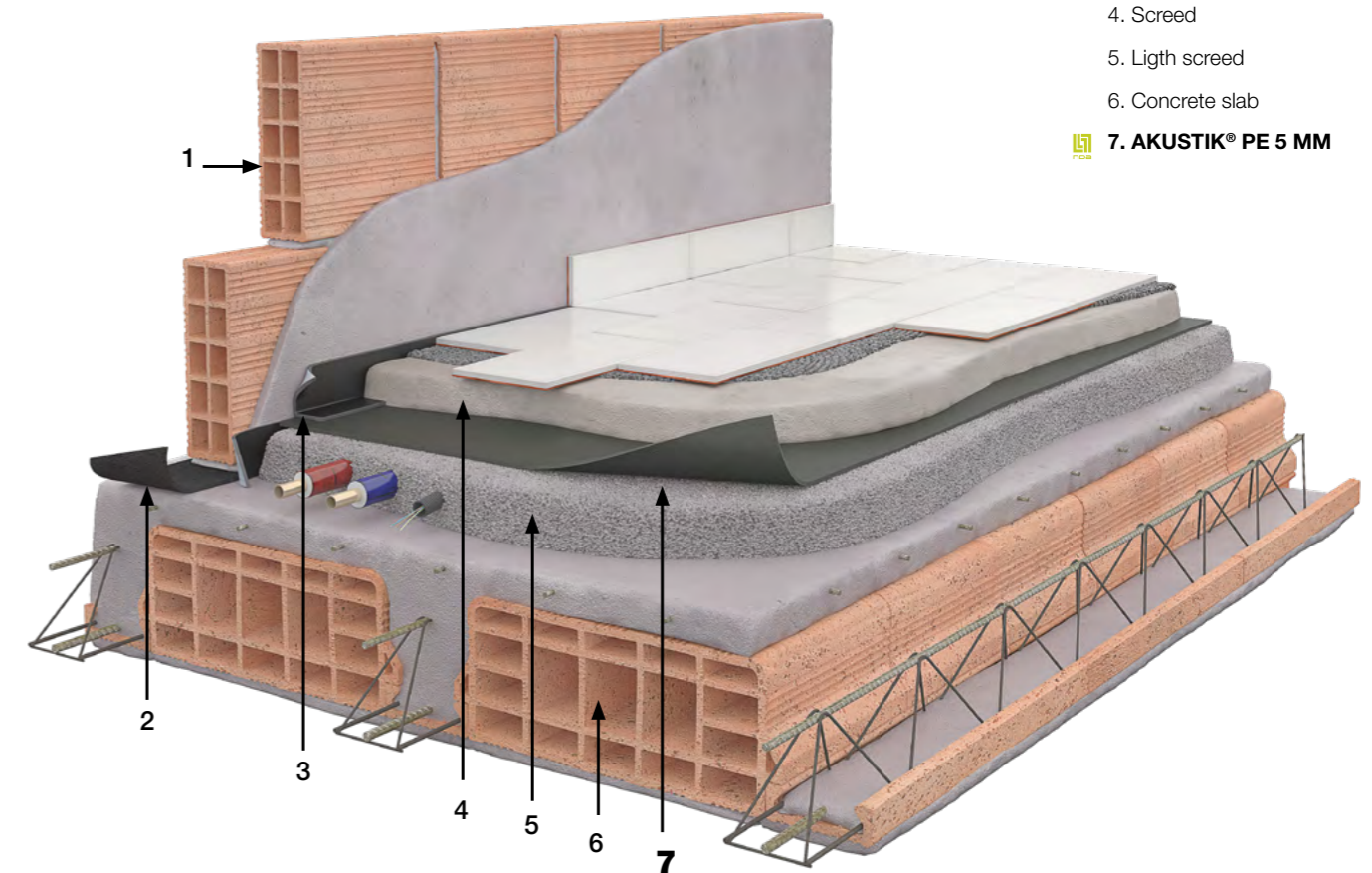
APPLICATIONS

IMPACT SOUND




ACOUSTIC INSULATION OF THE HORIZONTAL PLANE IN TRADITIONAL CONSTRUCTIONS WITH HIGH PERFORMANCE PRODUCTS

$L_{n,w} = 54,8 \text{ dB}$

Forecast calculation according to UNI EN 12354-2



LEGEND

1. Light weight masonry
-  2. WALL BAND®
-  3. AKUSTIK® BORDER
4. Screed
5. Ligth screed
6. Concrete slab
-  7. AKUSTIK® PE 5 MM

IMPROVEMENT OF THE INSULATION

Th. 5 mm $\Delta L_{n,w} = 26,5 \text{ dB}$ (according to UNI EN 12354-2)

Th. 10 mm $\Delta L_{n,w} = 28,0 \text{ dB}$ (according to UNI EN 12354-2)