

# HIGHMAT 50

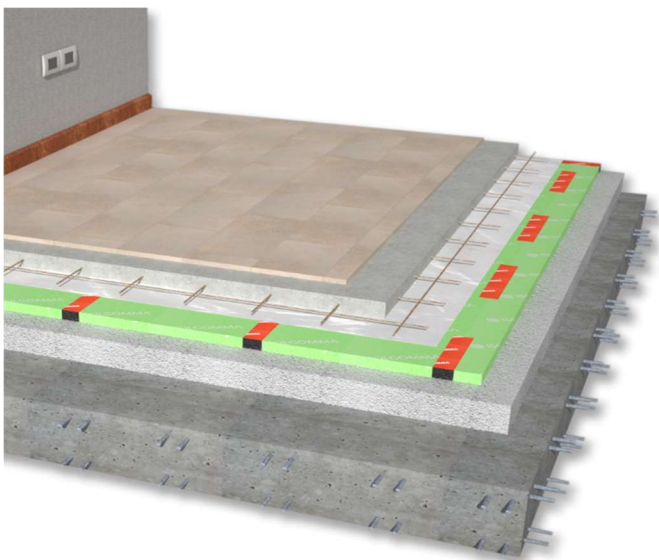
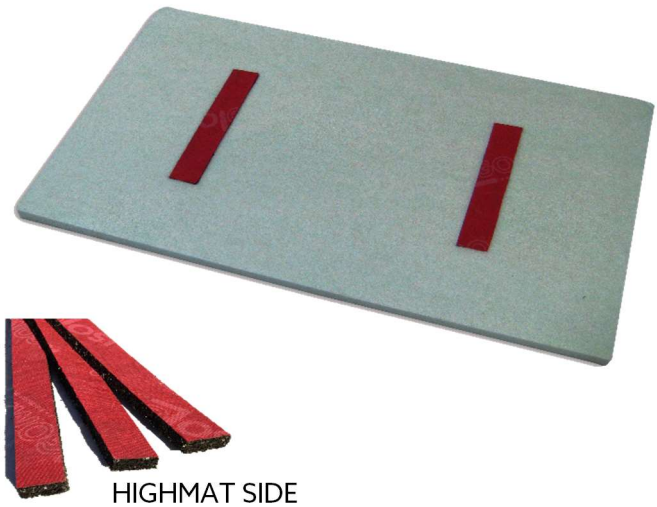
## UNDER SCREED ACOUSTIC INSULATION



IMPACT NOISE ACOUSTIC INSULATION WITH HIGH THERMAL-ACOUSTIC PERFORMANCES, CONSISTING OF POLYESTER FIBRE PANELS AND PUNCTUAL SUPPORTS IN GRANULAR RUBBER SBR AND EPDM

### ■ TECHNICAL SPECIFICATION

Acoustic insulation panels made of two rubber bearings inserted in a polyester fiber mat, with a total thickness of 50 mm. The bearings are made of SBR and EPDM rubber granules and fibers compacted using polyurethane glue in a hot process, protected with a non-woven, non-stretch, synthetic membrane on one side; the dimensions of the rubber bearings are 500 mm x 50 mm. The polyester fiber mat has a density of 60 kg/m<sup>3</sup> and the total dimensions of the assembled panel are 1000 mm x 600 mm.



### ■ CERTIFIED ACOUSTIC IMPROVEMENT

Highmat guarantees the maximum acoustic performances for the reduction of impact noise in the construction of new multi-purpose buildings

### ■ FLEXIBILITY

The excellent performances even at low frequency make it suitable on lightweight structures or for applications with very low system frequencies

### ■ LAYING COSTS REDUCTION

The realization in panels allows installation even in the absence of a specific design of the laying layout

### ■ TO BE USED WITH

Under screed solutions for floors acoustic insulation in multi-purpose buildings

### ■ TECHNICAL DATA

Thickness	50 mm
Length	1,00 m
Width	0,60 m
Mass per unit area	3,50 kg/m <sup>2</sup>

Dynamic stiffness s'	5 MN/m <sup>3</sup>
Compressibility c	3 mm
Impact sound pressure level attenuation ΔL <sub>w</sub>	39 dB
Reaction to fire	E
Thermal conductivity coefficient λ	0,040 W/m K



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### INSTALLATION INSTRUCTIONS FOR HIGHMAT

- 1 Install the adhesive strip Profyle Flat to the wall and the Side Highmat along the whole perimeter.



- 2 Install Highmat on the whole surface, staggered between two adjacent rows.



- 3 Seal any gaps higher than 2 mm between panels, using the Stik tape.



- 4 Apply a waterproof foil on the whole surface to protect the resilient layer.



- 5 Install the reinforcement mesh (Ø 5 mm, net 200 mm) and build the screed (th. > 60 mm).



- 6 Apply the finishing on top of the screed and cut the exceeding edging strip only at the end.



### NOTES

At the end of the row, proceed with a cut of the Highmat panel when necessary. The waste can be used in the subsequent end-of-line or it can be reduced to half panel to start a new row

During the casting of the screed the Highmat product may undergo a partial deflection in correspondence with the part of the polyester fiber panel



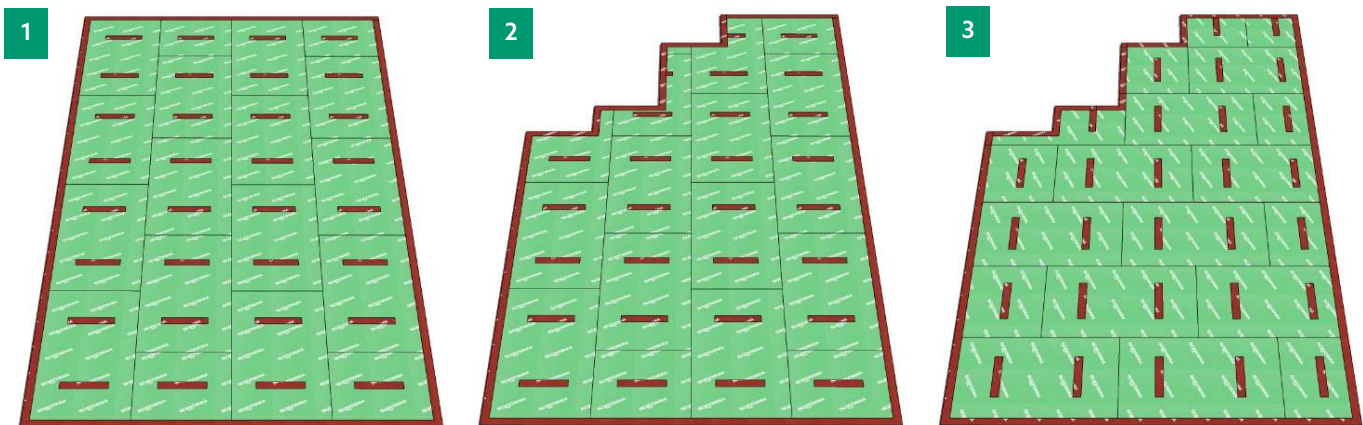
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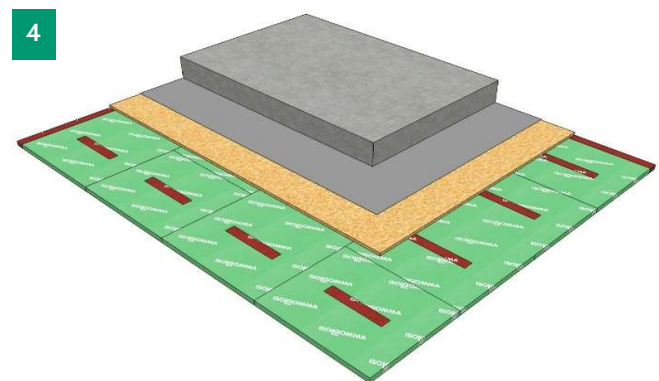


### SPECIFIC LAYING INSTRUCTIONS FOR THE HIGHMAT PANEL AND ACCESSORIES

After preparing the laying surface, the Profyle Flat and the Highmat Side along the perimeter, start laying a full Highmat panel and proceed in the same direction so that the rubber supports are aligned between adjacent rows [1]. The orientation of the rows is at the discretion of the installer [2] [3]



The sand and cement screed or leveling screed must have a thickness of more than 6 cm and a density of at least 2000 kg / m<sup>3</sup> and must also be reinforced by a reinforcement mesh of 5 mm diameter and 200 mm mesh positioned at a height of about 20 mm from the top of the resilient mattress. For screed thicknesses greater than 100 mm, use a wooden panel as a disposable formwork (at least 15 mm thick) [4]. Before casting, protect the surface with a waterproof sheet.



**ACOUSTIC CERTIFICATES**  
Product acoustic certificates are available and allow to comply with the limits imposed by law



**INSTALLATION TEST**  
Acoustic performances of the intervention can be tested on site by a competent technician



**ACOUSTIC REPORT**  
Our technical staff is able to give you the proper support in all the project phases, supporting you in the identification of materials



**LAYING ASSISTANCE**  
Thanks to our extensive commercial technicians network, we are at your disposal for the coordination of the first laying phases on site

[SEE THE REFERENCES > VISIT THE WEBSITE](#)

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