



SOUNDPROOFING

INSONOMAT

SOUNDPROOFING



ACOUSTIC MEMBRANE FOR FLOORS



INSONOMAT is an acoustic membrane made from elastomeric bitumen and recycled rubber specially developed for use under a 38 mm (1 ½ in) thick concrete topping.



SOPREMA.US • 1.800.356.3521 SOPREMA.CA • 1.877.MAMMOUTH



INSONOMAT

ACOUSTIC MEMBRANE FOR FLOORS



BENEFITS

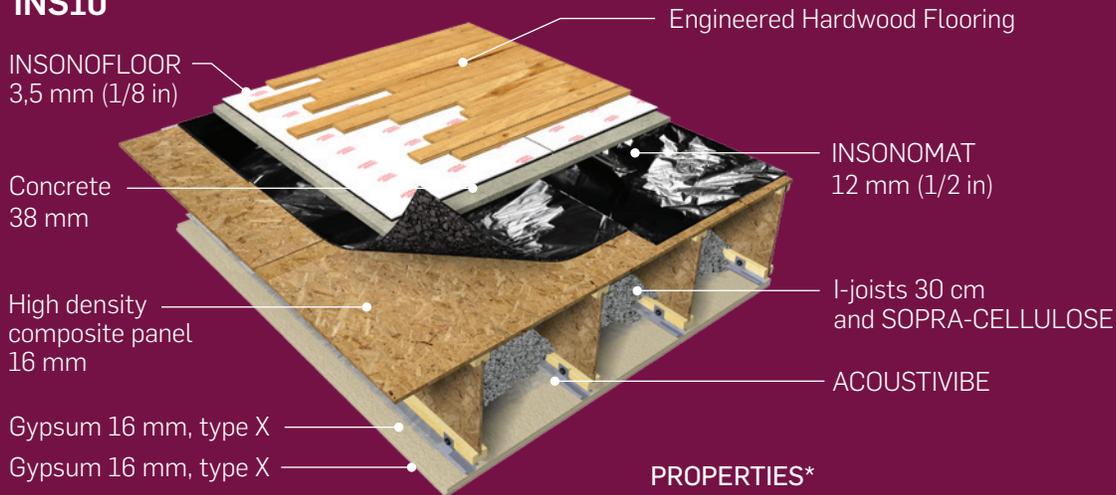
- Contributes to the waterproofing of the structure at the time of concrete casting
- Prevents the water in concrete to evaporate too quickly to increase its quality
- Can be installed and sealed easily with easy-to-use self-adhesive tape
- Contributes to LEED points due to its recycled material content

PRODUCT CHARACTERISTICS

INSONOMAT	
THICKNESS	12 mm (1/2 in)
DIMENSIONS	0,91 m x 6 m (36 in x 19.69 ft)
WEIGHT	22 kg (49 lb)
SURFACE	High-density polyethylene
UNDERFACE	Rubber granules
GROSS AREA	5.02 m ² (54 ft ²)

FLOOR SOUNDPROOFING SYSTEM

INS10

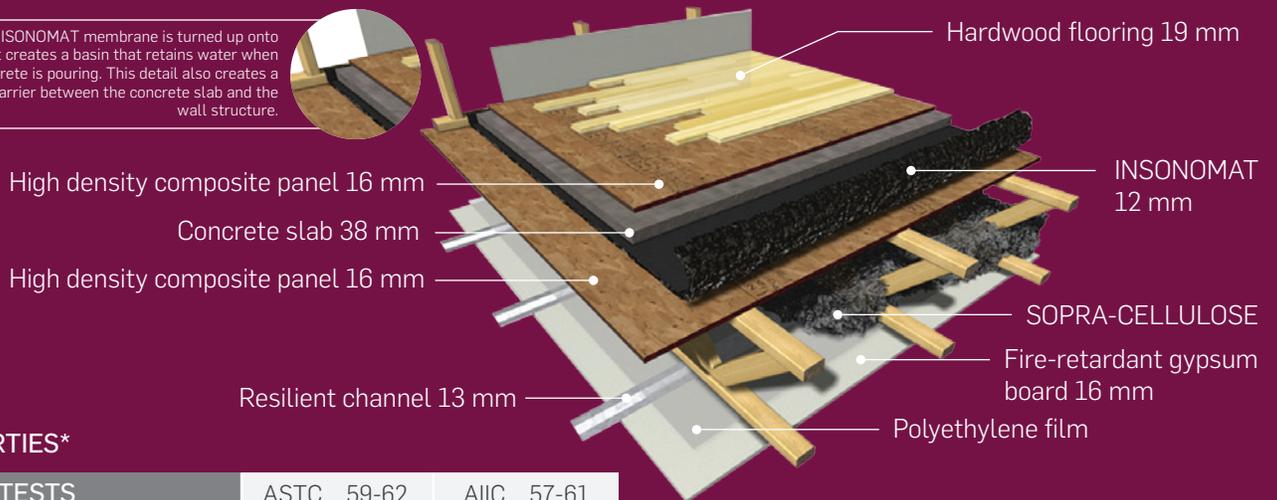


PROPERTIES*

FIELD TESTS	ASTC 58-61	AIRC 60-66
LABORATORY TESTS	STC 63	IIC 66

INS04

When the INSONOMAT membrane is turned up onto the wall, it creates a basin that retains water when the concrete is pouring. This detail also creates a noise barrier between the concrete slab and the wall structure.



PROPERTIES*

FIELD TESTS	ASTC 59-62	AIRC 57-61
LABORATORY TESTS	STC -	IIC -

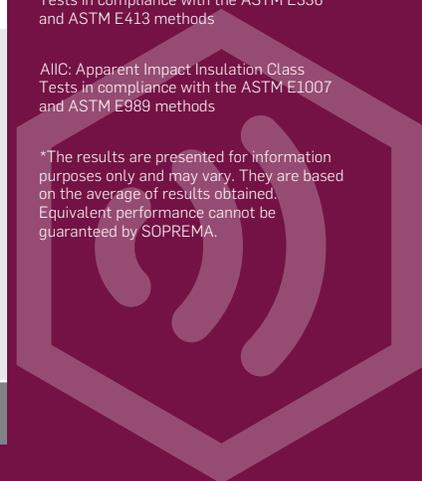
PERFORMANCE COMPARISON WITH AND WITHOUT INSONOMAT

Assembly WITHOUT INSONOMAT	Assembly WITH INSONOMAT
<ul style="list-style-type: none"> • Concrete 38 mm • Polyethylene film 6 mils • OSB panel 19 mm • I-joists 30 cm • Cellulose 30 cm • Resilient channels • Gypsum 16 mm, Type X • Gypsum 16 mm, Type X 	<ul style="list-style-type: none"> • Concrete 38 mm • INSONOMAT • OSB panel 19 mm • I-joists 30 cm • Cellulose 30 cm • Resilient channels • Gypsum 16 mm, Type X • Gypsum 16 mm, Type X
STC = 60; IIC = 42	STC = 62; IIC = 54

ASTC: Apparent Sound Transmission Class
Tests in compliance with the ASTM E336
and ASTM E413 methods

AIRC: Apparent Impact Insulation Class
Tests in compliance with the ASTM E1007
and ASTM E989 methods

*The results are presented for information purposes only and may vary. They are based on the average of results obtained. Equivalent performance cannot be guaranteed by SOPREMA.



SURFACE PREPARATION

Insonomat is unrolled on the wooden deck. The deck must be free of all debris, such as wood chips, screws, nails, or any other debris that may puncture Insonomat during concrete pouring. Generally, a good cleaning should do the trick. You must also make sure that there are no screws or nails on the sill sides on which the Insonomat will be installed.

INSTALLATION METHOD

Although not required, at least 5 °C is the ideal for better bonding of the self-adhesive side lap joints. Ideally, rolls should also be conditioned to this temperature prior to installation.

Install the INSONOMAT membrane with the rubber facing down, to the floor.

Begin INSONOMAT installation at the walls. The self-adhesive strips of the first lengths go to the wall. Apply the entire self-adhesive strip and no less than 40 mm (2 in) of the regular surface to the wall surface. Do this on all the walls and divisions in order to have a granulated surface between the walls and the concrete to be applied.

Lay subsequent lengths one by one, using the self-adhesive, non-granulated overlaps.

When coming to roll ends, the edge of the new roll must join with, but not overlap, the previous one. Seal the joint with construction adhesive tape such as "Tuck Tape".

When you reach the opposite wall, it is necessary to apply the membrane about 5 cm (2 in) up the wall, in order to ensure a granulated surface between the structure and the concrete.

2 DIFFERENT SITUATIONS*

SITUATION 1: BEFORE BUILDING DIVISIONS

Install as described above and pour at least 38 mm (1½ in) of concrete on the surface. When it has set, cut away the membrane to the top of the concrete at the perimeters. It's recommended that you apply acoustic sealant on the INSONOMAT edge, where the wall and concrete meet, before installing the drywall.

SITUATION 2: WITH SILL PLATES IN PLACE BEFORE POURING 38 mm (1 1/2 in) IN CONCRETE

Put 12,5 mm (½ in) strips of plywood over the sill plates before installing membrane. The sill plates then act as your reference point for the depth of the concrete. Install as described above and up the sills as well and then pour at least 38 mm (1½ in) of concrete on the surface. When the concrete has hardened, cut away the membrane to the top of the concrete at the perimeters. It's recommended that you apply acoustic sealant on the INSONOMAT edge, where the wall and concrete meet, before installing the drywall.

Important notice regarding concrete casting: Regular 25 MPA or gypsum-based concrete can be used over the INSONOMAT. However, it is essential that the concrete supplier be notified that the concrete will be poured over a flexible resilient membrane. It is the concrete supplier's responsibility to ensure that their concrete will have the quality and the right formulation adapted to that situation to avoid warping and cracking. Also, once the concrete topping is cured and allows pedestrian traffic, it is important to take into account that it rests on a resilient support and to take the necessary precautions. For example, do not overload the gypsum carts during its installation in the rooms.

*Note: We recommend a minimum thickness of 50 mm (2 in) for exposed slabs.

WARRANTY

SOPREMA soundproofing products are guaranteed against all manufacturing defects and to be suitable for all stated uses. SOPREMA's liability under this guarantee is limited to replacing or refunding the purchase price of SOPREMA soundproofing products found to be defective.

If you have any questions about this product or its installation, please contact your SOPREMA representative.

