



SOUNDPROOFING

# INSONOFLOOR

## SOUNDPROOFING



### ACOUSTIC MEMBRANE FOR FLOORS



INSONOFLOOR is a high-density polyethylene and modified bitumen membrane coated with small granules made of recycled rubber. It is specially designed to soundproof laminate floating floors and other types of flooring such as hardwood or multilayer engineered wood.



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# INSONOFLOOR

ACOUSTIC MEMBRANE FOR FLOORS

## BENEFITS

- Superior soundproofing performance
- Rotproof and resistant to water leaks and humidity
- Wood floor coverings can be bonded to the top surface using high-performance adhesives

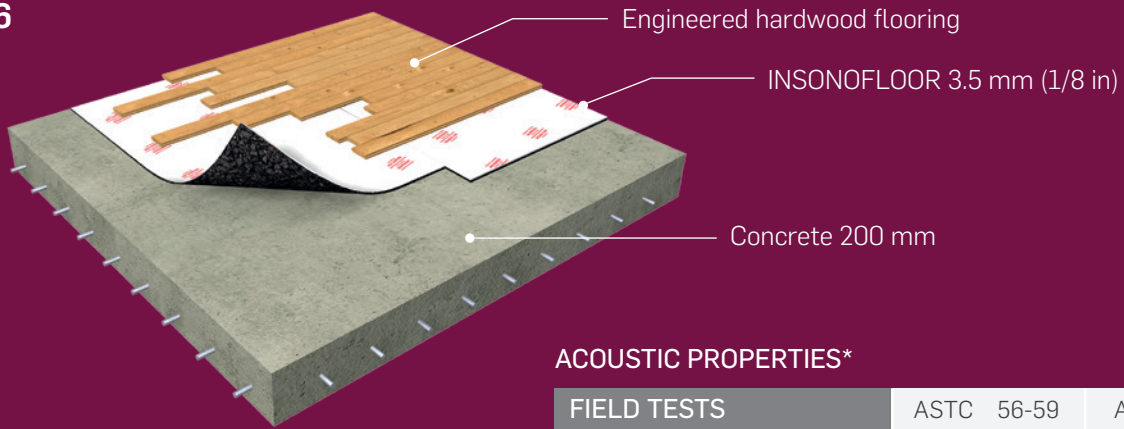


## PRODUCT CHARACTERISTICS

INSONOFLOOR	
THICKNESS	1/8 in (3.5 mm)
DIMENSIONS	35 in × 39 ft (0.89 m × 12 m)
SURFACE	High-density polyethylene
UNDERFACE	Rubber granules
COVERAGE	115 ft <sup>2</sup> (10.5 m <sup>2</sup> )
WEIGHT	54 lb (24.5 kg)
THERMAL PERFORMANCE (R-value)	0.30
WATER VAPOUR TRANSMISSION (ASTM E96 - PROTOCOL B)	< 0.04 perms (< 2.5 ng/Pa.s.m <sup>2</sup> )

# FLOOR SOUNDPROOFING SYSTEM

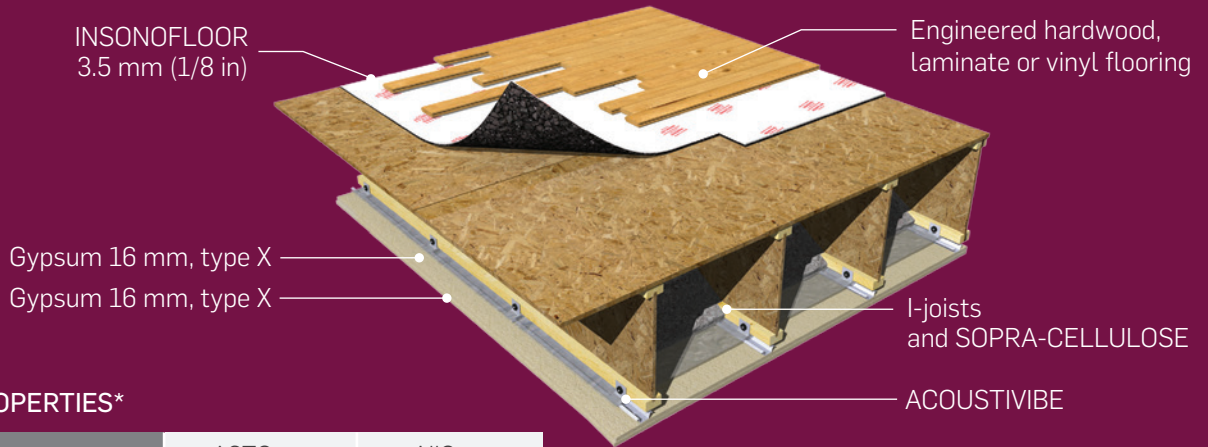
## INB06



### ACOUSTIC PROPERTIES\*

FIELD TESTS	ASTC 56-59	AiIC 60-64
LABORATORY TESTS	STC 53	IIC 58

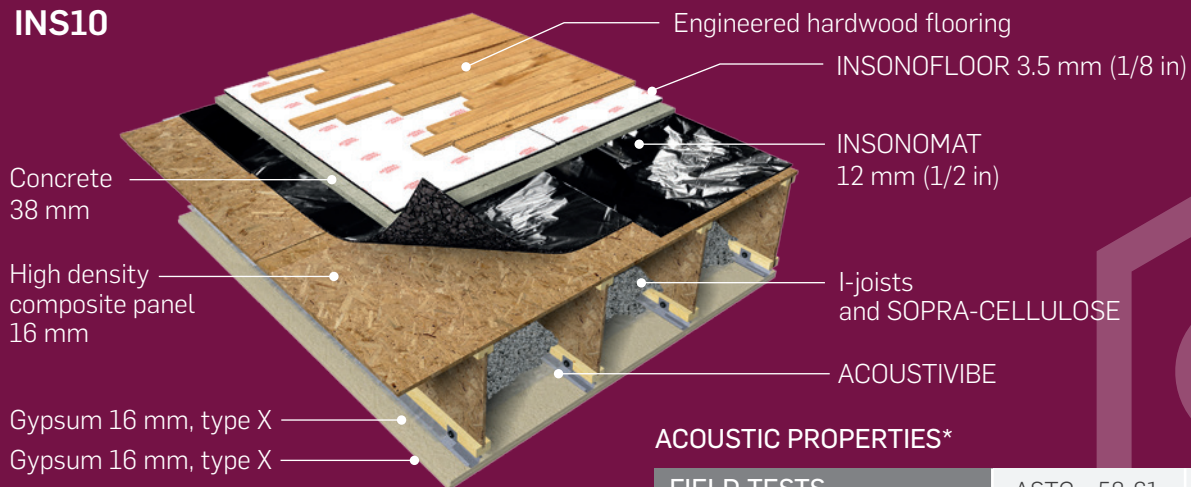
## INB07



### ACOUSTIC PROPERTIES\*

FIELD TESTS	ASTC -	AiIC -
LABORATORY TESTS	STC 58	IIC 56

## INS10



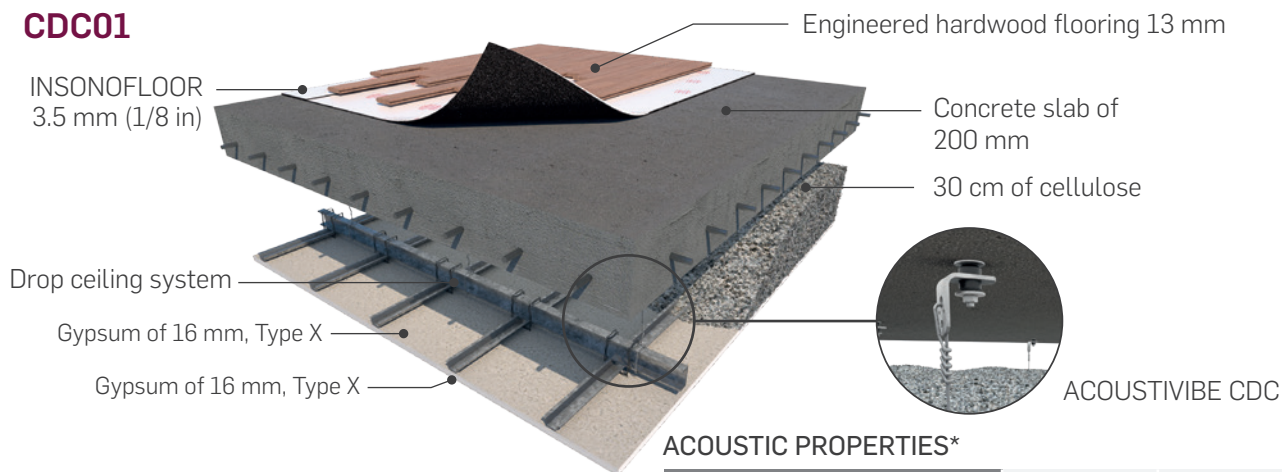
### ACOUSTIC PROPERTIES\*

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





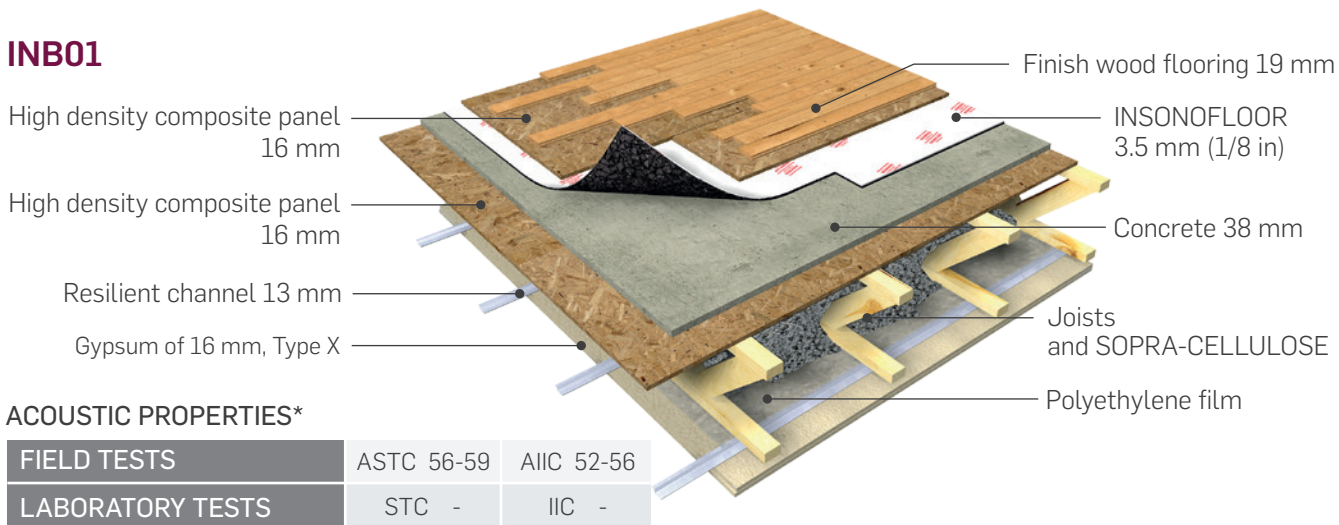
### CDC01



#### ACOUSTIC PROPERTIES\*

FIELD TESTS	ASTC -	AIIC -
LABORATORY TESTS	STC 63	IIC 69

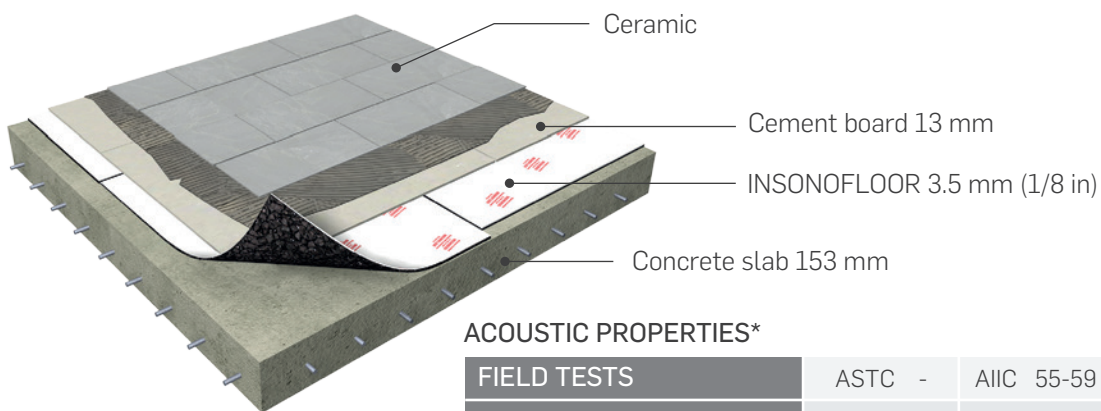
### INB01



#### ACOUSTIC PROPERTIES\*

FIELD TESTS	ASTC 56-59	AIIC 52-56
LABORATORY TESTS	STC -	IIC -

### INB05



#### ACOUSTIC PROPERTIES\*

FIELD TESTS	ASTC -	AIIC 55-59
LABORATORY TESTS	STC -	IIC -

## PERFORMANCE COMPARISON WITH AND WITHOUT INSONOFLOOR

### Assembly No. 1

Assembly <b>WHITOUT</b> INSONOFLOOR	Assembly <b>WITH</b> INSONOFLOOR
<ul style="list-style-type: none"> <li>Concrete slab 200 mm</li> </ul>	<ul style="list-style-type: none"> <li>Engineered hardwood 13 mm</li> <li>INSONOFLOOR</li> <li>Concrete slab 200 mm</li> </ul>
STC = 53; IIC = 28	STC = 53; IIC = 58

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

AIIC: Apparent Impact Insulation Class  
Tests conducted in compliance with ASTM E007 and ASTM E989 methods

\*The AIIC and ASTC 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.

### Assembly No. 2

Assembly <b>WHITOUT</b> INSONOFLOOR	Assembly <b>WITH</b> INSONOFLOOR
<ul style="list-style-type: none"> <li>Concrete slab 38 mm</li> <li>INSONOMAT</li> <li>OSB panel 19 mm</li> <li>I-joists 30 cm</li> <li>Cellulose 30 cm</li> <li>Resilient channels</li> <li>Gypsum 16 mm, type X</li> <li>Gypsum 16 mm, type X</li> </ul>	<ul style="list-style-type: none"> <li>Engineered hardwood 14 mm</li> <li>INSONOFLOOR</li> <li>Concrete slab 38 mm</li> <li>INSONOMAT</li> <li>OSB panel 19 mm</li> <li>I-joists 30 cm</li> <li>Cellulose 30 cm</li> <li>Resilient channels</li> <li>Gypsum 16 mm, type X</li> <li>Gypsum 16 mm, type X</li> </ul>
STC = 62; IIC = 54	STC = 62; IIC = 65

## SURFACE PREPARATION

### WOOD

Make sure the surface is free of all debris, such as nails, screws and any other construction rubbish, that may damage the product once the floor finish is applied on the product.

Generally, a good sweeping is enough to prepare the surface. Also make sure that there are no gaps between two floor support panels. If necessary, fill such gaps with acoustic sealant.

### CONCRETE

The same preparation as for the wood deck should be performed, but since this product is a vapour barrier, you must also make sure that the concrete deck does not have a moisture rate so high that the product traps the moisture in the concrete.

A maximum moisture content of 3 lb/1,000 ft<sup>2</sup>/24 h (1.36 kg/92.9 m<sup>2</sup>/24 h) is recommended. This reading can be taken with a calcium chloride test, among other methods.

## INSTALLATION METHOD

INSONOFLOOR is simply unrolled on the deck with the white film facing up. Install membranes side by side and overlap parts without granulates. Seal the side and end lap joints with construction tape. Do not seal the junctions between INSONOFLOOR and the walls at the floor perimeter.

**INSONOFLOOR must always be installed perpendicular to the direction of the wood floor's finish.**

### LAMINATE (FLOATING FLOOR)

Install directly on INSONOFLOOR. It is mandatory to use a laminate with a minimum thickness of 8 mm.

### ENGINEERED WOOD

Laid floating directly on INSONOFLOOR or bonded using a double-spread adhesive technique with one of the recommended adhesives. It is mandatory to use an engineered wood floor with a minimum thickness of 8 mm.

### NAILED HARDWOOD FLOORING

Install a 5/8 in (16 mm) thick high-density oriented strand board (OSB) in order to provide a nailing surface.

It is best if the nails do not penetrate INSONOFLOOR because they could reach the deck and create direct contact points between the hardwood and deck, thus reducing the soundproofing performance.

Moreover, since the board is laid floating, you must leave a space of 1/8 to 1/4 in (3 to 6 mm) between panels to avoid floor squeaking. The oriented strand board is better than plywood because it remains flatter, which makes hardwood nailing easier.



## 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.

