



SOUNDPROOFING

# INSONO AF3-47

INSONO AF3-90 / INSONO AF3-130

SOUNDPROOFING



ANTI-FRACTURE AND SOUND DAMPING WATERPROOFING MEMBRANES



INSONO AF3 membranes are composed of self-adhesive elastomeric bitumen with an exposed non-woven polyester reinforcement. The back of the membrane is protected by a release film.

Mainly used under ceramic tiles, they can also be installed with wood flooring or vinyl planks.

#### THE INSONO AF3 MEMBRANES WITH THREE FEATURES

- Sound damping
- Crack isolation through a concrete slab
- Waterproofing



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# QUALITY



## **INSONO AF3-47** **INSONO AF3-90 / INSONO AF3-130**

**ANTI-FRACTURE AND SOUND DAMPING  
WATERPROOFING MEMBRANES**

### **BENEFITS**

- Reinforcement developed to optimize mortar adhesion
- Works on a variety of substrates such as plywood and concrete
- Good traffic resistance during installation
- Rot proof

### **PRODUCT CHARACTERISTICS**

	<b>INSONO AF3-47</b>	<b>INSONO AF3-90</b>	<b>INSONO AF3-130</b>
<b>THICKNESS</b>	47 mils (1.2 mm)	90 mils (2.3 mm)	130 mils (3.3 mm)
<b>DIMENSIONS</b>	39 in x 55 ft (1 m x 16.76 m)	36 in x 49 ft (0.91 m x 15 m)	36 in x 26 ft (0.91 m x 8 m)
<b>WEIGHT</b>	37 lbs (17 kg)	71 lbs (32.4 kg)	57 lbs (26 kg)
<b>SURFACE</b>	Non-woven Polyester		
<b>UNDERFACE</b>	Silicone Release Film		

## TECHNICAL PROPERTIES

STANDARD	TEST	INSONO AF3-47		INSONO AF3-90		INSONO AF3-130	
ANSI 118.12-2010; par 5.4	Crack-resistant Test	Pass		Pass		Pass	
ANSI A118.12-4.1.2	Moisture Resistant	Pass		Pass		Pass	
R value		-		.045		0.147	
ASTM D5147 Tensile/Elongation	Maximum Load	MD	XMD	MD	XMD	MD	XMD
		9 kN/m	5 kN/m	10 kN/m	7 kN/m	10 kN/m	7 kN/m
	Elongation at Maximum Load	35%	35%	7%	7%	7%	7%
	Elongation at Break	50%	60%	45%	45%	50%	60%
ASTM D5147 Cold Temperature Flexibility	-40 °F (-40 °C)	Pass @ -40° C		Pass @ -40° C		Pass @ -25° C	
ASTM D4073	Tear Strength	80 N	265 N	410 N	375 N	360 N	265 N
ASTM E96 (Dry Method)	Water Vapor Transmission	3.3 ng/ Pa·s·m <sup>2</sup> 0.060 perm		1.4 ng/ Pa·s·m <sup>2</sup> 0.025 perm		0.8 ng/ Pa·s·m <sup>2</sup> 0.015 perm	
ASTM E84-17 (INSONO AF3-130 + tiles)	Surface burning characteristics of building materials	Flame Spread Index	Smoke Developed Index	Flame Spread Index	Smoke Developed Index	Flame Spread Index	Smoke Developed Index
		-	-	-	-	0	0

MD: Machine Direction XMD: Cross Machine Direction

## ROBINSON TEST

### ASSEMBLY

- 12 in x 12 in (30 cm x 30 cm) ceramic tiles with sand and polymer grout (1/8 in joints)
- Polymer-modified mortar
- INSONO AF3-47 or INSONO AF3-90 or INSONO AF3-130 membrane applied to substrate
- Primer : ELASTOCOL STICK H<sub>2</sub>O
- 2 in thick concrete slab

## RESULT

Cycle 6: Residential and Light Commercial (Office space, reception areas, kitchen and bath)

## ACOUSTIC PROPERTIES

ASSEMBLY	LABORATORY TESTS		FIELD TESTS	
	STC <sup>(3)</sup>	IIC <sup>(2)</sup>	ASTC <sup>(3)</sup>	AIIC <sup>(4)</sup>
INSONO AF3-47 + ceramic tiles + concrete slab 8 in (20 cm)	-	-	58	30
INSONO AF3-47 + ceramic tiles + concrete slab 8 in (20 cm) + drop ceiling (1 gypsum board 5/8 in (15.9 mm))	-	-	60	39
INSONO AF3-90 + ceramic tiles + concrete slab 8 in (20 cm)	53	47	56	56
INSONO AF3-90 + ceramic tiles + concrete slab 8 in (20 cm) + drop ceiling (ACOUSTIVIBE CDC + cellulose + 2 gypsum boards 5/8 in (15.9 mm))	63	60	-	-
INSONO AF3-130 + ceramic tiles + concrete slab 8 in (20 cm)	56	50	-	-

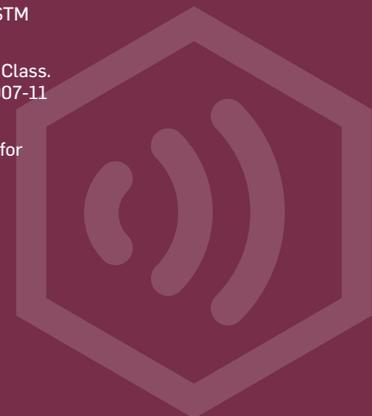
(1) STC : Standard test method for laboratory measurement of airborne sound transmission loss of building partition. Tests in compliance with the ASTM E90-09 standard.

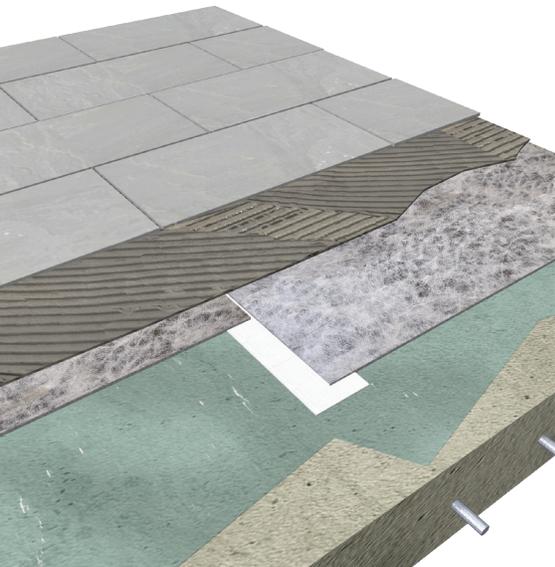
(2) IIC : Standard test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine. Tests in compliance with the ASTM E492-09 standard.

(3) ASTC (FSTC) : Field Sound Transmission Class. Tests in compliance with the ASTM E336-11 and ASTM E413 standards.\*

(4) AIIC (FIIC) : Field Impact Insulation Class. Tests in compliance with the ASTM E007-11 and ASTM E989-11 standards.\*

\*ASTC and AIIC results are presented for information purposes only. Equivalent performance cannot be guaranteed by SOPREMA.





## INSTALLATION METHOD

Prepare concrete surface with ELASTOCOL STICK H<sub>2</sub>O, wait at least 2 hours and install the INSONO AF3 membrane. Apply the polymer-modified mortar and install the ceramic.

## APPROPRIATE SUBSTRATES

### CONCRETE AND PLYWOOD

Note: The concrete must have a curing period of at least 28 days before the membrane is applied. If the membrane must be installed sooner, the moisture content of the slab must be no more than 3 lbs/1,000 ft<sup>2</sup> (1.46 kg/100 m<sup>2</sup>) in 24 hours. This measurement can be done using a calcium chloride test, among others.

## LIMITATIONS

- Do not use on wood planks, wood fiberboard, OSB, plywood treated with oil, Luan plywood, Masonite, surfaces such as self-adhesive tiles or laminated fiberglass, metal or other surfaces.
- Not recommended for exterior surfaces.
- Only INSONO AF3-90 can be installed on vertical surfaces.
- Do not use pre-mixed products to adhere the tiles to the surface of the INSONO AF3.
- Do not use on cracks larger than 3/8 in (10 mm).

## 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.

