



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 3 FEATURES

- Sound damping
- Crack isolation through a concrete slab
- Slab waterproofing*

*For installations where waterproofing is required, waterproofing strips, such as SOPRASEAL STICK 1100 or REDZONE 25, must be installed before INSONO AF3 membrane.



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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

	INSONO AF3-47	INSONO AF3-90	INSONO AF3-130
THICKNESS	47 mils (1.2 mm)	90 mils (2.3 mm)	130 mils (3.3 mm)
DIMENSIONS	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)
WEIGHT	37 lbs (17 kg)	71 lbs (32,4 kg)	57 lbs (26 kg)
SURFACE	Non-woven polyester		
UNDERFACE	Silicone release film		

TECHNICAL PROPERTIES

MD: Machine direction XMD: Cross machine direction

STANDARD	TEST	INSONO AF3-47		INSONO AF3-90		INSONO AF3-130	
ANSI 118.12-2010; par. 5.4	Crack-resistant test	Pass					
ANSI A118.12-4.1.2	Moisture resistant	Pass					
R value		—		0.045		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	-25°C and -40°C	Pass @ -40°C		Pass @ -40°C		Pass @ -25°C	
ASTM D4073	Tear strength	380 N	265 N	410 N	375 N	360 N	265 N
ASTM E96 (Dry method)	Water vapor transmission	3.3 ng/Pa•s•m ² 0.060 perm		1.4 ng/Pa•s•m ² 0.025 perm		0.8 ng/Pa•s•m ² 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

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 : SOPREMA ELASTOCOL STICK H₂O or RESISTO H₂O PRIMER
- 2 in thick concrete slab

RESULT

Cycle 6 or 7:

Residential and Light commercial
(Office space, reception areas, kitchen and bath)

ACOUSTIC PROPERTIES

ASSEMBLIES	LABORATORY TESTS		FIELD TESTS	
	STC ⁽¹⁾	IIC ⁽²⁾	ASTC ⁽³⁾	AIIC ⁽⁴⁾
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.

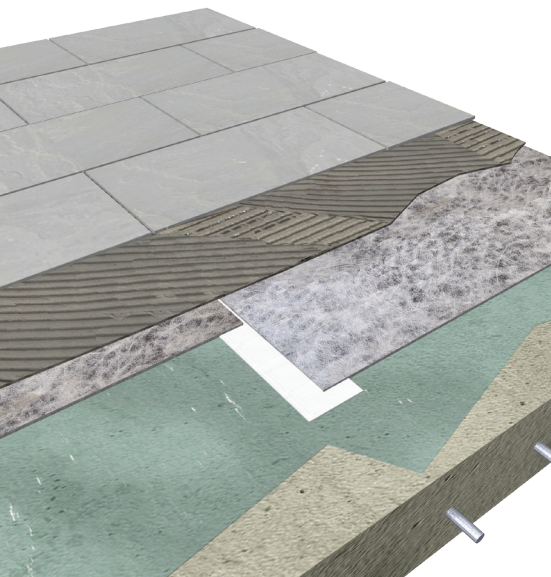
(2) IIC : Standard test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the taping machine. Tests in compliance with the ASTM E492-09 standard.

(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 and RESISTO.





INSTALLATION METHOD

Prepare surface with INSONO AF3 PRIMER, SOPREMA ELASTOCOL STICK H₂O PRIMER or RESISTO H₂O PRIMER, follow drying times indicated on the primers data sheet then install the INSONO AF3 membrane. Apply the polymer-modified mortar and install the ceramic tiles.

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 lb/1,000 ft² (1.46 kg/100 m²) in 24 hours. This measurement can be done using a calcium chloride test, among others.

LIMITATIONS

- Do not use on wood planks, wood fibreboard, OSB, plywood treated with oil, Luan plywood, Masonite, surfaces such as self-adhesive tiles or laminated fibreglass, 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 $\frac{3}{8}$ in (10 mm).

WARRANTY

SOPREMA soundproofing products are guaranteed against all manufacturing defects and are 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.

Member of TCNA,
Tile Council of North America



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