

INSONO

AF3-90

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

INSONO AF3-90 is composed of self-adhesive elastomeric bitumen with an exposed non-woven polyester reinforcement. The underside is surfaced with a protective release film. INSONO AF3-90 is designed for use under ceramic tiles but can also be installed with wood flooring or vinyl planks. INSONO AF3-90 offers sound damping, crack insulation through a concrete slab and waterproofing.

STORAGE

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture.

APPLICATION

Prepare surface with INSONO AF3 Primer, ELASTOCOLO Stick H₂O or RESISTO H₂O Primer, follow drying times indicated on the primer data sheet then install the INSONO AF3-90 membrane. Apply the polymer-modified mortar and install the ceramic tiles. For installations where waterproofing is required, waterproofing strips, such as SOPRASEAL® Stick 1100 must be installed prior to INSONO AF3-90.

APPLICATION



SELF-ADHERED

QUICK FACTS

THICKNESS (mils)	WEIGHT (lbs)	DIMENSIONS (ft)
90 (2.3 mm)	71 (32.4 kg)	3 x 49 (0.91 x 15 m)



SOPREMA®

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TECHNICAL INFORMATION & TESTING

PROPERTIES	
Surface	Non-woven polyester
Underface	Silicone release film
Thickness, mils (mm)	90 (2.3)
Dimensions, ft (m)	3 x 49 (0.91 x 15)
Weight, lbs (kg)	71 (32.4)

TECHNICAL PROPERTIES		
PROPERTY	STANDARDS	INSONO AF3-130
Crack-resistant test	ANSI 118.12-2010; par. 5.4	PASS
Moisture resistant	ANSI A118.12.-4.1.2	PASS
R value		0.045
Maximum load	ASTM D5147 Tensile/Elongation	MD
Elongation at maximum load		XMD
Elongation break		
		10 kN/m
		7%
		45%
Cold temperature flexibility, -13°F (-25°C)	ASTM D5147	PASS
Tear strength	ASTM D4073	410 N
Water vapor transmission (dry method)	ASTM E96	375 N
		1.4 ng/Pa•s•m ² (0.025 perm)

MD: Machine direction XMD: Cross machine direction
(all values are nominal)

TESTING & APPROVALS

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 AF3-90 membrane applied to substrate
- Primer: SOPREMA ELASTOCOL Stick H₂O or RESISTO H₂O Primer
- 2 inch 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 AF3-90 + 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))	-	-	60	39

(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 and RESISTO.