



DATA SHEET

ISOLATEK TYPE 300

Spray- Applied Fire Resistive Material

ISOLATEK® T 300 is a durable, wet mix SFRM (spray-applied fire resistive material) designed to provide fire protection to various floor and roof assemblies, steel beams, columns, and joists in commercial construction projects.

ISOLATEK T 300 offers the best fire resistance performance per unit thickness of any commercial SFRM. This means less material is needed to achieve required fire ratings. ISOLATEK T 300 is very cost efficient.

ISOLATEK 300 is applied exclusively by licensed and trained contractors. Our technical staff works closely with building team members to meet all fire protection needs.

Code Compliances

Structures protected with ISOLATEK 300 have undergone Tests up to 240 minutes in approved independent laboratories To recognized standards throughout the world, including:

UK (to BS 476; Parts 6,7 & 21)

USA (to ASTM E119)

France (to Arrêté Ministériel August 1999)

Belgium (to NBN S21-202)

Germany (to DIN 4102: 1977-09 & DIN EN 1363-1:1999-10)

Major Specifications:

The fire resistance test results relate solely to the Constructions tested and test conditions imposed.

Fire Test performance

ISOLATEK 300 has been extensively tested for fire endurance by Underwriters Laboratories, Inc.(UL) and UL Canada(ULC) in accordance with ASTM E 119 (UL 263, CAN/ULC-5101).

These tests have resulted in ratings of up to 4 hours for

- Floor assemblies
- Beams
- Joists
- Columns
- Roof assemblies

ISOLATEK T 300 has also been tested in accordance with ASTM E84 (UL723, CAN/ULC-5102) and has the following surface Burning Characteristics

Flame Spread.....0
Smoke Developed.....0

Thermal Properties

ISOLATEK T 300 is also a thermal insulator. This feature is important in reducing heat loss, particularly when the product is applied to the underside of a roof deck. The R-value contributed by ISOLATEK T 300 may allow a Reduction in roof insulation.

Product	Conductivity (K)*	Résistance(R/inch)
ISOLATEK T 300	0.54 BTU in/hr Ft *f@75°F 0.078 W/mk@24°C	1.85



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PASSIVE FIRE PROTECTION

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PHYSICAL PERFORMANCE

Characteristic	ASTM Method	Standard Performance *	Tested performance **
density	E605	15 pcf(240 kg/m ³)	17.8 pcf(285 kg/m ³)
Cohesion/Adhesion	E736	150 psf(7,2kPa)	390 psf(18.6 kPa)
Deflection	E759	No cracks or Delaminations	No cracks or Delaminations
Bond Impact	E760	No cracks or Delaminations	No cracks or Delaminations
Compressive Strength	E761	750 psf (35.9 kPa)	2.510 psf(120.2 kPa)
Air Erosion Resistance	E859	less than 0.025 g/ft ² (0.27 g/m ²)	0.000 g/ft ² (0.000g/m ²)
Corrosion Resistance	E937.Mil.Std.810	Does not Promote Corrosion of Steel	Does not Promote Corrosion of Steel
Sound Absorption	C423		0.50 NRC @1" (25 mm)on deck & Beam
Combustibility	E 1354	No Flamming or Heat Release	No Flamming or Heat Release

*Standard performance based on General Services Administration AIA/SC/GSA/07811 except for density, which is based on UL. Refer to UL design for density requirement

** Values represent independent laboratory tests under controlled conditions.

Innovative Fire Systems Technical and Sales Representatives are always available to lend assistance. Additional printed materials, including Material Safety Data Sheets, and other product literature, are available upon request or more information about our I.F.S line of sprayed fire protection, thermal and acoustical treatments, Sprayfilm Intumescent Coatings, and BOARD, please contact us

For more detailed product information, visit our website:

www.innovativefiresystems.com