

PRODUCT DESCRIPTION

ISOLATEK Type 300 is a durable, gypsum based, wet mix, commercial density Spray-Applied Fire Resistive Material (SFRM) designed to provide fire protection to concealed floor and roof assemblies, steel beams, columns, and joists in building construction projects.

In addition to fire resistance, ISOLATEK Type 300 also provides thermal benefits. As a thermal insulator, it is effective in reducing heat loss, particularly when applied to the underside of a roof deck. The R-value added by ISOLATEK Type 300 may also allow a reduction in roof insulation.

ISOLATEK Type 300 is very cost effective; requiring less material to achieve required fire ratings and offers the best fire resistance performance per unit thickness in its class.

PRODUCT ADVANTAGES

- Best fire ratings-minimal thickness
- Lightweight gypsum based material is easy to apply
- Provides additional value as a thermal insulator

FIRE TEST PERFORMANCE

ISOLATEK Type 300 has been extensively tested for fire resistance and is rated for up to 4 hours for floor assemblies, beams, joists, columns, and roof assemblies.

- Classified by UL in accordance with ANSI/UL 263 (ASTM E119)
- Classified by UL in accordance with CAN/ULC-S101 (ASTM E119)
- BS476, Parts 20-21: 1987
- EN13381, Parts 3 & 4 (concrete and steel)

ISOLATEK Type 300 has also been tested for surface burning characteristics in accordance with ASTM E84 and is rated Class A.

Flame Spread0 Smoke Developed0

ISOLATEK Type 300 meets EN 13501-1, Fire Test to Building Material, and is classified A1.

CODE COMPLIANCES

ISOLATEK Type 300 satisfies the requirements of the following:

- IBC® - INTERNATIONAL BUILDING CODE®
- City of Los Angeles (LADBS, Category 1 Material)
- NBC - National Building Code of Canada
- AC23 and AC10 Requirements (UL ER13348-01)

APPROVALS

ISOLATEK Type 300 complies with the requirements of the following specifications:

- European Technical Approval (ETA)
- Association for Specialist Fire Protection (ASFP)

MAJOR SPECIFICATIONS

ISOLATEK Type 300 complies with the requirements of the following specifications:

- MasterSpec®, Section 078100 - APPLIED FIREPROOFING (AIA)
- MasterFormat® 2014, Section 07 81 00 Applied Fireproofing (CSC,CSI)
- United Facilities Guide Specification, UFGS 07 81 00 Spray-Applied Fireproofing (USACE, NAVFAC, AFCEC, NASA)
- Master Construction Specifications, Number 07 81 00 Applied Fireproofing (VA)
- Code of Federal Regulations, Title 40: Protection of the Environment (EPA)
- PBS-P100 Facilities Standards for the Public Buildings Services (GSA)
- Factory Mutual Approved

Thermal Performance

Product	Conductivity(k)*	Resistance (R/inch)
ISOLATEK Type 300	0.078 W/m•K @ 24°C (0.54 BTU in/hr ft²•F @ 75°F)	1.85

*When tested in accordance with ASTM C518

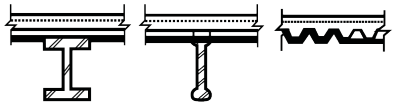
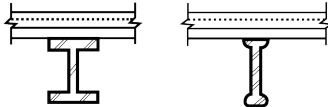
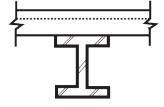
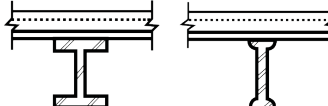
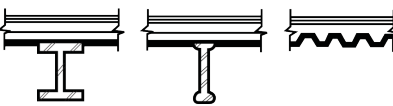
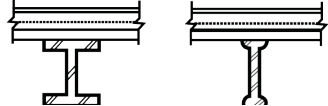
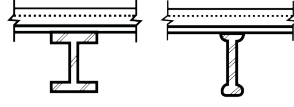
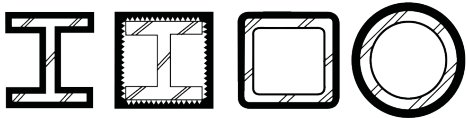
Physical Performance

Characteristic	ASTM Method	Standard Performance*	Tested Performance**
Density	E605	240 kg/m³ (15 pcf)	240 kg/m³ (15 pcf)
Combustibility	E136	Noncombustible	Noncombustible
Cone Calorimeter	E1354	No Flaming or Heat Release	No Flaming or Heat Release
Cohesion/Adhesion	E736	7.2 kPa (150 psf)	19.4 kPa (406 psf)
Deflection	E759	No Cracks or Delaminations	No Cracks or Delaminations
Bond Impact	E760	No Cracks or Delaminations	No Cracks or Delaminations
Compressive Strength	E761	68.9 kPa (1,440 psf)	158.5 kPa (3,311 psf)
Air Erosion Resistance	E859	Less than 0.025 g/ft² (0.27 g/m²)	0.000 g/m² (0.000 g/ft²)
Corrosion Resistance	E937	Does Not Promote Corrosion of Steel	Does Not Promote Corrosion of Steel
Sound Absorption	C423		0.50 NRC 1" (25 mm) on deck and beam
Fungal Resistance	G21	No Growth After 28 Days	Passed

* Standard performance based on MasterSpec®, Section 078100 APPLIED FIREPROOFING. Refer to UL design for density requirement.

** Values represent independent laboratory tests under controlled conditions.

UL Fire Resistance Ratings and Designs

System or Component	Rating (HR) Designs	Design Details
Floor Assemblies - Protected Deck	1, 1 1/2, 2, 3 D759	
Floor Assemblies - Unprotected Deck	1, 1 1/2, 2, 3 D902	
Floor Assemblies - Pre cast Concrete	2, 3, 4 J804 2, 3, 4 J805 1, 1 1/2, 2, 3, 4 J809	
Beam or Joist Only - Floors	1, 1 1/2, 2, 3, 4 N759 1, 1 1/2, 2, 3 N761	
Roof Assemblies - Protected Deck	1, 1 1/2, 2 P719 1, 1 1/2, 2, 3 P723	
Roof Assemblies - Unprotected Deck	1, 1 1/2, 2 P908 1, 1 1/2, 2 P922	
Beam or Joist Only - Roofs	1, 1 1/2, 2, 3, 4 S721 1, 1 1/2, 2, 3, 4 S729	
Wide Flange, Pipe and Tube Steel Columns	1, 1 1/2, 2, 3, 4 X790	

The above represents the most common UL Designs which utilize ISOLATEK® Type 300. Please refer to the UL Directory for additional designs or actual design for beam sizes, deck profiles, electrification details, roof insulation types and other construction details.

The performance data herein reflects Isolatek International's expectations based on tests conducted in accordance with recognized standard methods under controlled conditions. The applicator, general contractor, property owner and/or user MUST read, understand and follow the directions, specifications and/or recommendations set forth in Isolatek International's publications concerning use and application of these products, and should not rely merely on the information contained in this product data sheet. Isolatek International is not responsible for property damage, bodily injuries, consequential damages, or losses of any kind that arise from or are related to the applicator's, general contractor's or property owner's failure to follow the recommendations set forth in Isolatek International publications.

Isolatek International provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the remainder of the world.



GREENTECH THERMAL INSULATION PRODUCTS MANUFACTURING CO. P.O. BOX 3350, UMM AL QUWAIN, UNITED ARAB EMIRATES
is an authorised manufacturer and distributor of ISOLATEK® Type 300 in designated regions.

+ 971 4 3626210

www.greentech-isolatek.com | technical@greentech-isolatek.com

www.isolatek.com | technical-international@isolatek.com