MONOKOTE® FIREPROTECT™ Product Data Sheet

Product Description

MONOKOTE® FIREPROTECT™ is a rigid mineral wool board designed to deliver fire resistance, thermal insulation, and acoustical management within a single integrated product. MONOKOTE FIREPROTECT is engineered to meet stringent fire resistance requirements for steel structures, offering robust fire protection with ease of installation. MONOKOTE FIREPROTECT is ideal for commercial, industrial, and data center projects. It can be installed quickly at any stage of construction, no matter the roof traffic, temperature, or condition of the substrate.

MONOKOTE FIREPROTECT is available in multiple thicknesses: 13⁄16, 1, 1 ¼, 1 ⅝, 2, 2 ⅜, 3 ¼, 4 in (20, 25, 30, 40, 50, 60, 80, 100mm)

Product Advantages

- UL-tested and compliant with ASTM E119 / CAN ULC S101 for columns-both HSS and W-shapes, beams, joists, floor/ceiling, and roof/ceiling assemblies.
- Fully loaded to 50 ksi fire tests on joists, beams and decking, with a wide range of tested sizes.
- Designed for dry and rapid installation without disruption to other trades.
- Installs dry without steel surface preparation or specialized equipment; compatible with primed, painted and galvanized steel substrates.
- Suitable for interior and exterior applications with weather exposure during construction.
- Non-combustible, non-flammable, and asbestos-free.
- VOC Emissions and Content reports available.
- High R- and Noise Reduction Coefficient (NRC)- values.
- Comprised of 20% recycled material.

System Components

Rigid mineral wool board; accessories include Monokote® FireProtect™ pigtail screws for fastening, MONOKOTE FIREPROTECT Noggins for beams and columns, and Monokote FIREPROTECT Flute Fillers for deck applications.

Dimensions and Packaging

Board: 47 ¼ L x 39 ⅜ W; Thicknesses: 13⁄16,-4 in (20–100mm); Density:10 pcf (~150 kg/m³) ; Supplied on wooden pallets, stacked or packaged; accessories packaged in labeled boxes.

Installation

MONOKOTE FIREPROTECT is supplied in a standard board size 47 ¼ L x 39 ⅜ W (1200mm x 1000mm) with thicknesses ranging from 13⁄16,-4 in (20–100mm), palletized and shrink- wrapped. The board can be cut using a table/hand saw or knife. Noggings 4'' (100mm) wide x 1 ⅝" (40mm) minimum thickness are cut to fit tightly between the flanges 24'' on center. For deck applications it is fastened directly to the deck using standard deck screws.

MONOKOTE FIREPROTECT is cut and installed to box the steel and is held in place with MONOKOTE FIREPROTECT Screws at 6'' on center. Refer to the UL Fire Resistance directory for the UL Designs and details. Please refer to our field Installation manual for specific design and application details.

Technical Properties

Air Erosion	ASTM E859	0.00g at 5800 ft / min
Tensile Strength	ASTM C209	14.6 psi
Density	ASTM E605	10.0 pcf (161 kg/m3)
Compressive Strength (10% deformation)	ASTM C165	3.45 psi
Thermal Performance (R-value)	ASTM C158	4.5 per inch
Sound Absorption (NRC)	ASTM C423	0.9
Fungal Resistance	ASTM C1338	No growth
Surface Burning Characteristics (Flame Spread / Smoke Development)	ASTM E84	0 / 0 (Class A)
Surface Burning Characteristics (Flame Spread / Smoke Development)	ULC CAN S102	5/0 (Class A)
Combustibility	ASTM E1354 ASTM E136	Non-combustible

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