

Roxul Toprock Plus



A non-combustible mineral wool insulation

FEATURES

- Dimensionally stable
- Stable R value
- Fire resistant
- Does not absorb water
- Non-corrosive
- Made from natural & recycled materials
- UL Classified and FM Approved
- Resistant to mold, fungi and bacteria growth
- Excellent sound absorption

BENEFITS

- Will not warp, cup or shrink
- Not affected by thermal cycling
- Does not contain CFC's or HCFC's

DESCRIPTION:

Roxul Toprock Plus mineral wool insulations are made from basalt rock and slag. The combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. Roxul mineral wool is a water repellent yet permeable material. It is a rigid mineral wool board which is available in monodensity (1") or dual density (2"-6") for enhanced point load and puncture resistance. The top surface is impregnated with a bitumen layer which is compatible with a variety of cold or hot applied roof membrane applications. Non-impregnated boards are also available on request. Tremco/Roxul Toprock Plus exceeds the requirements of ASTM C726.

BASIC USES:

Roxul Toprock Plus mineral wool insulation board is intended for a variety of low slope, new construction and re-roofing commercial and industrial roof insulation applications either as a base layer and/or as a coverboard layer over polyisocyanurate insulation.

SIZES:

Roxul Toprock mineral wool insulation is available in pallet sized bundles only. Board size is 4' x 4' (1219mm x 1219mm). Standard thicknesses are 1" (25.4mm) for the Toprock (MD) Plus and 2" (50.8mm) to 6" (152.4mm) for Toprock (DD) Plus.

Bundles Sizes for common thicknesses:

1" (25.4 mm) – 640 sqft (59.4 m²); 2" (50.8 mm) – 336 ft² (31.2 m²); 2.5" (63.5 mm) - 256 sqft (23.7 m²); 3" (76.2 mm) – 192 ft² (17.8 m²); 3.5" (88.9 mm) – 192 ft²(17.8 m²)

LIMITATIONS:

Roxul Toprock Plus mineral wool insulation boards must be protected and should not be exposed to weather during shipment, storage or installation. At the completion of a day's work, all exposed edges must be temporarily covered and sealed with roof membrane.

These products are not intended for use as a structural deck or for use under heavy traffic areas
Backnailing is required on roofs with slopes of 16.6% (2:12) or greater

GENERAL APPLICATION DATA:

Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/

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GENERAL APPLICATION DATA (continued):

deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based on the condition of your roof.

Structural Decks: Must be properly designed and structurally sound.

Drainage: Excessive ponding conditions can adversely affect the performance of any roof system. Where positive drainage does not exist, water removal from the roof surface must be facilitated by lowering sumps, tapering insulation or adding drains.

Insulation Storage: Insulation must be dry and kept dry. When stored outdoors, stack insulation on pallets at least four inches (100 mm) above ground level. Upon receipt of insulation on the job site, remove the factory plastic packaging. Cover the top and sides of the insulation with waterproof tarpaulin (not polyethylene) and secure. Do not stack more than two pallets high.

Surface Preparation: Prior to installing the insulation, the substrate must be clean, dry and free of dust, dirt, oil, or other contaminants. Concrete and gypsum decks must be properly cured and sufficiently dry prior to installing insulation.

Installation: Roxul Toprock Plus mineral wool is suitable for application with a variety of adhesives, including Fas-N-Free, Low Rise Foam and hot applied or mechanical fasteners.

Multiple layers: The use of two separate layers of insulation is recommended, but required over steel decks. After securing the first layer of insulation, install the additional layer(s) with the board joints offset a minimum six inches (150 mm) from the joints of the preceding layer. Two layers, with board joints offset, can minimize stress on the roof membrane which results from thermal movement of the deck.

Adhesive Application: Tremco Fas-N-Free, Tremco Low Rise Foam Adhesive and Tremco Low Rise Foam Adhesive Green are recommended for use with Roxul Toprock Insulation. Obtain and read the Specification Data Sheets for adhesive products prior to use.

Bitumen Application: Hot applied asphalt and hot applied rubberized asphalt can be used to adhere Roxul Toprock to concrete decks, to base sheets which are mechanically attached to wood or gypsum decks, and to insulation layer(s) previously secured. Hot asphalt or hot rubberized asphalt may also be used to adhere coverboards over Roxul Toprock Insulation.

Mechanical Fastener Application: Fasteners and discs are recommended where mechanical attachment of the insulation is specified over steel and wood decks. Do not mix fasteners and discs of different brands unless the combination is Factory Mutual Approved.

Fasteners must be driven perpendicular to the deck. Fastener should be driven tight enough so that the disc will not turn.

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PHYSICAL PROPERTIES:

| Property | Results | Test Method |
|-----------------------------|----------------------------------------------------------|----------------------|
| Dimensional Stability | 0.01% @ 350 F (177 C) | ASTM C 356 |
| Moisture Resistance | < 1.0% | ASTM C 209 |
| Corrosion Resistance | Pass | ASTM C 665 |
| Combustibility | Non-combustible | CAN4 S114 |
| Fire Test | Class A | UL 790, CAN/ULC-S107 |
| Compressive Strength (@10%) | 1" 12.1 psi (84 kPa) | ASTM C 165 |
| (@ 10%) | 3" 10.3 psi (71 kPa) | |
| Density (MD): | - 12.5 lb/ft ³ (200 kg/m ³) | ASTM C 612 |
| (DD): | Top - 13.75 lb/ft ³ (220 kg/m ³) | |
| | Bottom - 10 lb/ft ³ (160 kg/m ³) | |
| Thermal Resistance: MD: | 4 hr.ft ² .F°/Btu (0.7 m ² K/W) | |
| DD per inch: | 3.8 hr.ft ² .F°/Btu (0.67 m ² K/W) | |



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