A rigid mineral wool insulation board with enhanced strength.

**FEATURES**

- Does not require cover board
- Will not promote blistering
- Does not off gas
- Dimensionally stable
- High impact resistance
- Low moisture sorption
- Non-corrosive
- Fire resistant

Made from natural & recycled materials

**DESCRIPTION:**

ROXUL® TopRock® DD is a rigid mineral wool insulation board with a rigid upper surface for durability and enhanced strength. ROXUL® TopRock® DD is a noncombustible 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 vapor permeable material.

**BASIC USES:**

ROXUL® TopRock® DD is intended for commercial and industrial roof insulation applications and is suitable for both new building and re-roofing applications. TopRock® DD is intended for use with mechanically fastened or ballasted traditional and single ply membranes.

**LIMITATIONS:**

This product should not be exposed to weather during shipment, storage or installation. At the completion of a day’s work, all exposed edges should be temporarily sealed by lapping roof membrane over them. The products are not intended for use as a structural roof deck or for use under heavy traffic areas.

The factory packaging is intended for the protection of the insulation boards during transit and is not intended for job site protection against the elements. When product is stored outdoors, the plastic shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin. Insulation must be stored minimum 4 in. (102 mm) above ground and kept on a solid flat surface.

**PHYSICAL PROPERTIES:**

- **Performance Compliance**
  - Standard Specification for Mineral Fiber Roof Insulation Boards
  - NCC (Non Combustible Core) Rated Roof Insulation
  - Test Standard: ASTM C726

- **Reaction to Fire**
  - Flame spread index = 0 ; Smoke developed index = 0
  - Flame spread index = 0 ; Smoke developed index = 0
  - Determination of Non Combustibility of Building Materials - Non Combustible
  - Test Standard: ASTM E84 (UL 723)
PHYSICAL PROPERTIES:
(continued)

Standard Method of Fire Tests for Determining Heat Release
Rate of Roofing Assemblies with Combustible Above Deck
Roofing Components - Class 1
Fire Tests of Roof Coverings - Class A
Fire Tests Spread under Roof Deck Assemblies - Construction C7, C18, C28, C38
Standard Test Methods for Fire Tests of Roof Coverings -See UL Directory

Density
Actual Density -
Top Layer, 13.75 lb/ft³ (220 kg/m³)
Bottom Layer, 10.0 lb/ft³ (160 kg/m³)

Dimensional Stability
Linear Shrinkage 24 hrs. @ 0.71% 1200°F (650°C) ASTM C356
Linear Change 7 days @ 40°F (-40°C), ambient RH - 0.1% ASTM D2126
Linear Change 7 days @ 200°F (93°C), ambient RH - 0.1% ASTM C356
Linear Change 7 days @ 158°F (70°C), 97% RH - 0.0% ASTM C356

Hail Performance
Test Standard for Susceptibility to Hail Damage - Class 1 - SH (Severe Hail)
Impact Resistance by Impacting with Freezer Ice Balls - Class 4
Impact Resistance of Prepared Roof Covering Materials - Class 4

Reaction to Moisture
Water Vapor Sorption - 0.15 % ASTM C1104
Water Absorption - <1.0% ASTM C209
Water Vapor Transmission, Desiccant Method - 2330 ng/Pa.s.m² (41 perm)

Thermal Resistance
Mean Temperature R-value/inch RSI value/25.4 mm ASTM C 518 (C 177)
25°F (-4°C)  4.3 hr.ft².F/Btu  0.74 m²K/W
40°F (4°C)  4.2 hr.ft².F/Btu  0.72 m²K/W
75°F (24°C)  3.8 hr.ft².F/Btu  0.68 m²K/W
110°F (43°C)  3.6 hr.ft².F/Btu  0.64 m²K/W

Compressive Strength
Top Layer - 20psi (140kPa) @ 10% compression ASTM C165
Top Layer - 37psi (250kPa) @ 25% compression ASTM C165
Entire Board - 11psi (75kPa) @ 10% compression ASTM C165
Entire Board - 15psi (105kPa) @ 25% compression ASTM C165

Corrosion Resistance
Stress Corrosion Cracking Tendency of Austenitic Stainless ASTM C795
Corrosion Resistance Steel - Passed ASTM C665
Corrosion of Steel - Passed ASTM C665

Thickness
Available in 2” to 6” with 1/2” increments

Dimensions
48” (width) x 48” (length)
1219 mm (width) x 1219 mm (length)

Acoustical Performance
Thickness 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz NRC ASTM C423
2.0” 0.50 0.71 0.85 0.90 0.96 1.01 0.85

Contact ROXUL for further details

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