

Smartrock®

Interior Continuous Insulation for Concrete and Masonry Wall Substrates



ROCKWOOL Smartrock® is a stone wool insulation board designed for use as continuous insulation on the interior side of concrete and masonry exterior wall assemblies. This innovative product utilizes INTELLO® PLUS by Pro Clima as an integrated smart vapor retarder, allowing Smartrock to adapt to changing moisture and humidity conditions, while ensuring long-term thermal performance.

Smartrock is noncombustible, and achieves a Class A fire rating for flame spread and smoke development. The integrated membrane creates an airtight layer when properly sealed, enhancing the overall efficiency of the wall assembly.

Smartrock is available in thicknesses ranging from 2" to 5", enabling compliance with energy code requirements. This high-performance solution is backed by ICC-ES ESR-5374, making it a reliable choice for both new construction and retrofit projects. Smartrock supports the preservation of original facades, compliance with code requirements, and adherence to lot line restrictions.

Learn more at rockwool.com/smartrock

Three levels of control

With proper assembly detailing, Smartrock combines thermal, vapor and air control layers into a single product, supporting a high performance enclosure design.



ROCKWOOL Smartrock® is a stone wool insulation board with an integrated smart vapor retarder, or humidity-dependent vapor retarder, for continuous insulation on the interior of concrete and masonry wall assemblies.

| | Performance | Test Standard | | | |
|--|---|--------------------------------|---------------------------|------------------------------|------------------|
| Compliance | Mineral Fiber Block and Board Thermal Insulation - Type IVB Compliant | ASTM C612 | | | |
| | Acceptance Criteria for Humidity-Dependent Vapor Retarder | AC528 | | | |
| | Acceptance Criteria for Factory Bonded Humidity-Dependent Vapor Retarder Membranes to Rigid Insulation Board | AC566 | | | |
| Reaction to Fire | Flame Spread Index = 15; Smoke Developed Index = 20 | ASTM E84 (UL 723) ¹ | | | |
| | Combustibility of Materials at 750 °C - Noncombustible | ASTM E136 ² | | | |
| Nominal Density | Monolithic Density (thickness: ≤ 2"): > 4.3 lbs/ft ³ (> 69 kg/m ³) | ASTM C303 | | | |
| | Dual Density (thickness ≥ 2.5"): 6.2 lbs/ft ³ (100 kg/m ³) outer layer and 3.8 lbs/ft ³ (61 kg/m ³) inner layer | | | | |
| Dimensional Stability | Linear Shrinkage = 0.6 % @ 1200 °F (649 °C) | ASTM C356 | | | |
| Corrosion Resistance | Corrosiveness to Steel - Passed | ASTM C1617 | | | |
| Thermal Resistance | R-Value / inch @ 75 °F | 4.2 hr.ft ² .F/Btu | ASTM C518 | | |
| | RSI value / 25.4 mm @ 24 °C | 0.74 m ² K/W | | | |
| Reaction to Moisture (Mineral Wool Insulation) | Water Vapor Sorption - 0.16 vol% | ASTM C1104 | | | |
| | Water Vapor Transmission (3.75 in. thickness evaluated), Desiccant Method - 27 perm (1555 ng/Pa.s.m ²) | ASTM E96 | | | |
| | Determination of Fungi Resistance - Passed | ASTM C1338 | | | |
| Reaction to Moisture (Humidity dependent INTELLIO membrane) | Test Condition | Avg. Humidity | S _d -Value (m) | Water Vapor Permeance (Perm) | DIN EN ISO 12572 |
| | 73 °F (23 °C), 0/50 % R.H. | 25 % R.H. | 38.3 | 0.09 | |
| | 73 °F (23 °C), 50/93 % R.H. | 71.5 % R.H. | 2.93 | 1.19 | |
| | 73 °F (23 °C), 85/95 % R.H. | 90 % R.H. | 0.58 | 6.03 | |
| Dimensions | Thicknesses: 2" (50.8 mm) to 5" (127 mm) in 1/2" increments, and 6" (152.4 mm) | | | | |
| | Width x Length: 24" x 48" (610 mm x 1219 mm) | | | | |



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¹ Meets Class A requirements for flame spread and smoke-developed indices as per IBC.
² Classified as a noncombustible material in accordance with IBC Section 703.3.1.

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