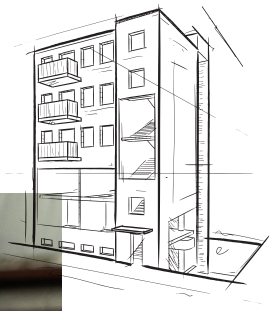
Smartrock®

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®

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Technical Data Sheet

Board Insulation 07210* • Board Insulation 07 21 13**
Cavity Wall Unit Masonry 04 27 23**

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/ft³ (> 69 kg/m³)	ASTM C303
	Dual Density (thickness ≥ 2.5″): 6.2 lbs/ft³ (100 kg/m³) outer layer and 3.8 lbs/ft³ (61 kg/m³) 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.ft².F/Btu RSI value / 25.4 mm @ 24 °C 0.74 m²K/W	ASTM C518
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.m²)	ASTM E96
	Determination of Fungi Resistance - Passed	ASTM C1338

Reaction to Moisture (Humidity dependent INTELLO 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 Width x Length: 24″ x 48″ (610 mm x 1219 mm)

Declare.

ICC ES
ESR-5374

Issued: 04-2025

[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.

NOTE: *Master Format 1995 Edition **Master Format 2004 Edition. As ROCKWOOL has no control over installation design and workmanship, accessory materials or application conditions, ROCKWOOL does not warranty the performance or results of any installation containing ROCKWOOL's products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

ROCKWOOL®

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