

The ROCKWOOL Group, the world’s leading manufacturer of stone wool insulation, offers a full range of high-performing, sustainable, natural stone insulation products based on innovative stone wool technology.

The paragraphs below are meant to be incorporated into Part 2 of a standard CSI 3 Part Format specifications, project’s General Structural Notes, or directly onto the plans. They must be carefully reviewed by a qualified design professional and edited to meet the requirements of the project at hand, assure compliance with governing building codes, and coordinate with other specification sections and drawings.

This drop in text specifies stone wool insulation used in concrete and masonry wall assemblies for thermal control. For additional information visit [ROCKWOOL Interior Insulated Mass Wall Applications](file:///C%3A%5CUsers%5CJoseph%20Berchenko%5CSpecGuy%20Dropbox%5C_SG%20TEAM%20FOLDER%5C%21SG%20MFG%20CURRENT%5CROCK%20Rockwool%5Crockwool.com%5Cinterior-insulated-mass-wall-insulation) webpage.

The following product is specified by this drop in text:

ROCKWOOL Smartrock® is a stone wool insulation board with an integrated smart vapor retarder designed for use as continuous insulation on the interior of concrete and masonry assemblies. It provides thermal, vapor, and air control in a fully detailed wall assembly, creating a high-performance enclosure design. Also included are liquid air barriers for application to concrete and masonry substrates, insulation anchors, and vapor retarder and gaskets as required for a complete insulation/air and vapor barrier assembly installation.

Consult [Technical Support - Contact Us | ROCKWOOL](https://www.rockwool.com/north-america/contact/) for assistance in editing specifications. Technical product inquiries: 1-877-823-9790.

**DROP IN TEXT**

**VAPOR-RETARDER-FACED THERMAL INSULATION**

1. PRODUCTS
	* + 1. MANUFACTURER
				1. Manufacturer: Provide listed products of ROXUL USA Inc. dba ROCKWOOL, a Delaware corporation, with offices located at 4594 Cayce Rd, Byhalia, MS 38611, United States.; [www.rockwool.com](http://www.rockwool.com); cs@rockwool.com.
			2. REGULATORY REQUIREMENTS
				1. Surface Burning Characteristics, ASTM E84: Class A Compliant

Flame Spread = 15

Smoke Developed = 20

Specifier: ROCKWOOL Smartrock® is acceptable as noncombustible material per Sec. 703.3.1 of 2024 International Building Code (IBC).

* + - * 1. Combustibility, ASTM E136: Noncombustible.
			1. PRODUCTS
				1. Stone Wool Insulation, ASTM C612: Type IVB, with integral humidity-dependent-vapor-retarder facer.

Specifier: ROCKWOOL Smartrock® is a stone wool insulation board with an integrated smart vapor retarder designed for continuous insulation on the interior of concrete and masonry assemblies. It provides thermal, vapor, and air control in a fully detailed wall assemblies, creating a high-performance enclosure design.

Basis of Design Product: ROCKWOOL Smartrock®.

Thickness and R-value: [2 inches/R 8.4] [2.5 inches/R 10.5] [3 inches/ R 12.6] [3.5 inches/R 14.7] [4 inches/R 16.8] [4.5 inches/R 18.9] [5 inches/R 21.0] [As indicated on Drawings].

Dimensions: 24-inch width by manufacturer’s standard length.

Specifier: ROCKWOOL can provide ESR #5374 if requested to verify compliance with the Acceptance Criteria below.

Facing: Humidity-dependent vapor retarder. ICC ES AC528 and AC566 compliant.

Specifier: Retain only one of two “Density” paragraphs below. Retain “Monolithic Density” for insulations less than 2.5 inches thick.

Monolithic Density, ASTM C303: Minimum 4.3 lbs./ft3.

Specifier: Retain “Dual Density” for insulations greater than or equal to 2.5 inches thick.

Dual Density, ASTM C303: 6.2 lbs./ft3 outer layer and 3.8 lbs./ft3 inner layer.

Linear Shrinkage, ASTM C356: 0.6 percent at 1200°F.

Corrosiveness to Steel, ASTM C1617: Passes.

Thermal Resistance, ASTM C518: R-value per inch of 4.2 deg. F x hr. x ft2/Btu at 75 degrees F.

Reaction to Moisture, Mineral Wool Insulation:

Water Vapor Sorption, ASTM C1104: 0.16 percent by volume.

Specifier: Water Vapor Transmission testing below based on 3.75-inch thickness, using Dessicant Method.

Water Vapor Transmission, ASTM E96: 27 perms.

Fungi Resistance, ASTM C1338: Passes.

Specifier: Humidity-Dependent Vapor Retarder are designed to have low permeability during the winter and high permeability during the summer. Verify proper placement and orientation of facer.

Reaction to Moisture, Humidity-Dependent Vapor Retarder Facer, ISO 12572:

Water Vapor Transmission at 73 deg. F

At 25 Percent Relative Humidity: Maximum 0.1 perms.

At 71.5 Percent Relative Humidity: Maximum 1.2 perms.

At 90 Percent Relative Humidity: Minimum 6.0 perms.

* + - 1. ACCESSORIES

Specifier: Include "Liquid Air Barrier" paragraph below if substrate requires an air barrier.

* + - * 1. Liquid Air Barrier: Water-based acrylic dispersion, seamless elastic air barrier, vapor variable.

Basis of Design Product: Visconn or Visconn Fibre by Aerosana.

* + - * 1. Insulation Anchors: Plastic anchors for permanent attachment of insulation to concrete and masonry structures.

Basis of Design Product: Plasti-Grip PMF Anchors by Trufast.

* + - * 1. Vapor Permeable Tape: Interior and exterior vapor permeable tape for permanent, airtight taped bonding of membranes, plywood, OSB, concrete.

Basis of Design Product: Tescon Vana by Proclima.

* + - * 1. Vapor Retarder Tape: Smart vapor retarding, air sealing fleece tape for interior use.

Basis of Design Product: Contega Solido IQ by ProClima.

* + - * 1. Gaskets: Preformed, flush, adjustable, EPDM gaskets for air sealing wire and pipe penetrations:

Basis of Design Products: Kaflex Multi and Roflex by ProClima.

For a complete, detailed full-length specification section that includes products specified above, download ROCKWOOL Section 072101 Vapor-Retarder-Faced Thermal Insulation.