

COMPANY

Johns Manville, a Berkshire Hathaway company, was founded in 1858. Our ownership by Berkshire Hathaway, one of the most admired companies in the world and one of the most financially secure, allows JM to invest for the future. This enables JM to continue delivering the broadest range of insulation products in the industry and offering innovative solutions that meet your needs.

DESCRIPTION

JM CladStone™ 110 Insulation is made of inorganic fibers derived from basalt, a volcanic rock. Advanced manufacturing technology ensures consistent product quality, with high-fiber density and low shot content for excellent performance. JM CladStone™ 110 is inorganic, noncombustible, moisture repellent, non-deteriorating, and will not mildew or support corrosion.

USE

JM CladStone™ 110 mineral wool is specifically manufactured for superior performance in continuous insulation commercial applications where rigidity and durability are critical. It is non-combustible and has a density of 11.0 pcf. JM Cladstone™ 110 is most often used in applications where cladding and cladding attachments penetrate through the continuous insulation. In addition to the standard thermal and acoustical performance you would expect from Johns Manville products, JM CladStone™ 110 has water repellent properties that allow for the effective drainage of water from the exterior of the building.

INSTALLATION

JM CladStone™ 110 Insulation can be installed with a variety of exterior cladding systems and can be mechanically fastened using impaling pins, screws & washers, insulation fasteners, plastic cap nails, or other proprietary fasteners. Please see the Installation Guide for more information.

PACKAGING

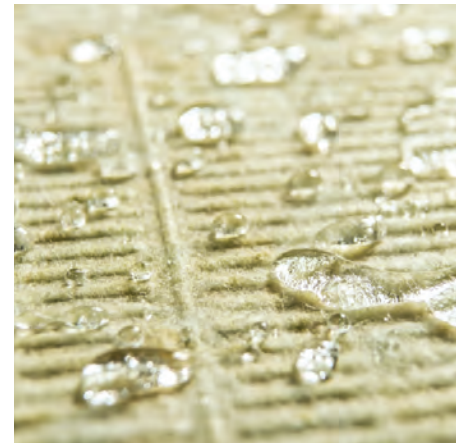
JM CladStone™ 110 is packaged in poly shrink wrap.

DESIGN CONSIDERATIONS

JM CladStone™ 110 Insulation should not be left directly exposed to the elements; it should be covered with an appropriate finish. JM CladStone™ 110 is available in one density, 11.0 pcf.

LIMITATIONS OF USE

Check applicable building codes.



*Actual color of product may be lighter than image.
Product image typical of material produced in the USA.*

PERFORMANCE ADVANTAGES

Fire Safety: JM CladStone™ 110 has a melting point in excess of 2000° F. See Applicable Standards for details.

Noncombustible: See Applicable Standards for details.

Durable & Inorganic: JM CladStone™ 110 does not support growth of fungi, nor does it sustain vermin.

Water Repellent: JM CladStone™ 110 repels water to ensure proper wall cavity drainage when applied as part of a proper exterior wall cavity system (See Installation Guide)

ENERGY AND ENVIRONMENT



**GREENGUARD certification is not intended for residential environments. Instead, the certification is intended only for buildings meeting ASHRAE 62.1-2007 commercial building ventilation rates. This certification is proof that the product meets the GREENGUARD Environmental Institute's indoor air quality standards and product emission standards for VOCs.*

APPLICABLE STANDARDS & BUILDING APPLICATION

Test Method	Values
ASTM C 612	Type IVB
ASTM C 518	R Per Inch 4.2
ASTM C 1104	Absorbs 0.03% by volume
ASTM C 1338	Fungi Resistance – Passed
ASTM C 165	639 psf (30.6 kPa) @ 10% compression 1479 psf (70.8kPa) @ 25% compression
ASTM E136	Non-combustible
ISO 1182	Non-combustible
CAN-ULC S114	Non-combustible
ASTM C 1617	Pass
ASTM E 84	Flame Spread 0, Smoke Developed 0
ASTM C 365	Linear Shrinkage <2% 1200°F (650°C)
ASTM C 1335	Shot Content <25%
NFPA 285	Commercial Fire Resistance – Assembly Passed

STANDARD SIZES

Density	Thickness	Widths	Length	R-Value per Inch
	in (mm)	in (mm)	in (mm)	
11.0 pcf	1" - 3" (25 - 76)	16 (406) & 24 (610)	48 (1219)	4.2

*Special sizes available on special order. Minimum order quantities will apply.