

# JM CladStone<sup>™</sup> Water & Fire Block Insulation

WATER REPELLENT AND FLAME RESISTANT INSULATION

#### **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 Water & Fire Block 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 Water & Fire Block is inorganic, noncombustible, moisture repellent, non-deteriorating, and will not mildew or support corrosion.

#### USE

JM CladStone Water & Fire Block is a continuous insulation mineral wool product that is specifically manufactured for superior performance in cavity wall and rain screen applications. In addition to the standard thermal and acoustical performance you would expect from Johns Manville products, JM CladStone Water & Fire Block has water repellent properties that allow for the effective drainage of water from an exterior cavity wall assembly.

#### **INSTALLATION**

JM CladStone Water & Fire Block Insulation can be installed with a variety of exterior cladding systems including strapping, brick ties, girts and purlins, and other exterior cladding mechanical attachment systems. Additionally, JM CladStone Water & Fire Block 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 Water & Fire Block is packaged in poly shrink wrap.

## **DESIGN CONSIDERATIONS**

JM CladStone Water & Fire Block Insulation must be installed on top of a separate weather resistive barrier (WRB). This product should not be left directly exposed to the elements; it should be covered with an appropriate finish. JM CladStone Water & Fire Block is available in two densities, 4.5 pcf and 6 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 Water & Fire Block has a melting point in excess of 2000° F. See Applicable Standards for details.

**Noncombustible:** See Applicable Standards for details.

**Durable & Inorganic:** JM CladStone Water & Fire Block does not support growth of fungi, nor does it sustain vermin.

Water Repellent: JM CladStone Water & Fire Block 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.



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# **APPLICABLE STANDARDS & BUILDING APPLICATION**

Test Method	Values
ASTM C 665	Non-corrosive
ASTM C 612	Type IA, IB, II, III, IVA
ASTM E 136	Non-combustible
CAN/ULC S 114	Non-combustible
ASTM E 96	Unfaced, 50 Perms as tested
ASTM E 84	Flame Spread 0, Smoke Developed 0
CAN/ULC S 102	Flame Spread 0, Smoke Developed 0
ASTM C 1104	Absorbs 0.03% by volume
ASTM C 356	Linear Shrinkage <2% 1200° F (650° C)
ASTM C 1335	Shot content less than 25%

#### **STANDARD SIZES**

Thickness		Widths	Length	R-Value
Density	in (mm)	in (mm)	in (mm)	per Inch
4.5 pcf & 6.0 pcf	2 (51) & 3 (76)	16 (406) & 24 (610)	48 (1219)	4.3



Visit our website at www.JM.com or call 800-654-3103 | Building Insulation Division P.O. Box 5108 | Denver, CO 80217-5108

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of thermal and acoustical fiberglass insulation listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the sales office nearest you for current information. All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy or for information on other Johns Manville thermal and acoustical insulation and systems, visit the website or call the 800 number above. 717 17th Street Denver CO, 80202