



EcoTouch® Certified R Metal Building Insulation



Description

Owens Corning® EcoTouch® Certified R Metal Building Insulation is a light density fibrous glass blanket. EcoTouch® Certified R is labeled with both a pre-laminated and post-laminated R value. Standard roll widths are 36", 48", 60" and 72". Made-to-Order widths are also available in 2" increments (i.e. even number).

Applications

Owens Corning® EcoTouch® Certified R Metal Building Insulation is used as part of the insulation system in the roofs and side walls of metal buildings. It is designed to be laminated with a variety of facings to provide attractive interior finishes, abuse resistance, and assistance in control of moisture. It can also be used when unfaced insulation is required in metal building roof and wall systems.

Physical Properties

Property	Test Method	Value	
Thermal Resistance	ASTM C 177/C 518	Thickness	
		Pre-lam.	
		Post-lam.	
		3.4"	R-10.8 R-10
		3.7"	R-11.9 R-11
		4.3"	R-14.1 R-13
		5.3"	R-17.3 R-16
		6.3"	R-20.6 R-19
8.0"	R-27.1 R-25		
9.25"	R-32.5 R-30		
Surface Burning	ASTM E 84 / UL723 ¹	Flame spread index < 25 Smoke developed index < 50	
Combustion Characteristics	ASTM E 136	Non-combustible	
Water Vapor Sorption	ASTM C 1104 / C 1104M	≤ 0.2% by volume	
Fungi Resistance	ASTM C 1338	Passes	
Corrosiveness	ASTM C 665, sec. 13.8	Passes	
Odor Emission	ASTM C 1304	Passes	
Dimensional Tolerances	ASTM C 167	Length, - 0" / + 1/2"	
		Width, - 1/8" / + 1/8"	

1. The surface burning characteristics of these products have been determined in accordance with UL 723. The standard should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Features

- Certified thermal performance
- Excellent recovery provides outstanding thermal and acoustical performance
- Contains an average of 65% recycled content
- GREENGUARD Gold Certified
- Easy to handle and laminate

Standards, Codes Compliance

- ASTM C991-08, Standard Specification for Flexible Fibrous Glass Insulation for Metal Buildings; Type II.
- NAIMA 202-96 (Rev. 2000) Standard for Flexible Fiber Glass Insulation to be Laminated for Use in Metal Buildings.

Technical Information

Owens Corning® EcoTouch® Certified R Metal Building Insulation is manufactured in compliance with ASTM C991, "Standard Specification for Flexible Fibrous Glass Insulation for Metal Buildings." This standard includes all performance and physical properties required of thermal insulation for use in metal building construction (see Physical Properties Table).

Owens Corning® EcoTouch® Certified R Metal Building Insulation is regularly tested to ensure compliance to the NAIMA 202-96 (Rev. 2000) Standard. Sampling and testing is performed by the National Association of Home Builders Home Innovation Research Lab. The product is labeled on the top surface of each roll with the nominal R-value and the "NAIMA 202-96" (Rev. 2000) to indicate compliance. The NAIMA 202-96 (Rev. 2000) standard specifies thermal performance which provides the capability of obtaining nominal thermal resistance (R-values) after laminating. The actual thermal performance obtained from the laminated product will depend primarily on the recovered thickness. Note that these nominal R-values are for the insulation only and do not include the effects of facings, air films, compression of insulation at framing members, conductance through fasteners, or other heat transfer paths particular to an installation.

The recovered thickness achieved will depend on a number of variables determined in the laminating process and hence are outside of Owens Corning's control. To address these issues, a number of leading metal building insulation laminators produce products which meet the National Insulation Association's "Certified Faced Insulation Standard" (NIA 404). Samples of faced products are periodically tested by a nationally recognized laboratory and determined to meet the NIA standard.

Installation

Several methods are used to insulate metal buildings. The usual method is to apply the insulation over the structural members (purlins and girts) and inside the exterior panels. This method generally accommodates single layer installations. Methods are also available to apply insulation between purlins so as to accommodate greater insulation thicknesses and better thermal performance.

Availability

Owens Corning® EcoTouch® Certified R Metal Building Insulation is fabricated and distributed by a nation wide network of independent laminators assuring prompt service and delivery. Contact your Owens Corning Sales Representative for the names of insulation laminators servicing your area.

Environmental and Sustainability

Owens Corning develops, manufactures and markets insulation, roofing, and fiberglass composites and is committed to expanding our impact through sustainability. Global in scope and human in scale, the company's market-leading businesses use their deep expertise in materials, manufacturing and building science to develop products and systems that save energy and improve comfort in commercial and residential buildings.

Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>

Certifications and Sustainable Features

- Certified by SCS Global Services to contain a minimum of 65% recycled glass content, 18% pre-consumer and 47% post-consumer
- GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg
- Received the Cradle to Cradle Products Innovation Institute's Gold Level Material Health Certificate
- This product's Environmental Product Declaration (EPD) has been certified by UL Environment



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Pub. No. 15086-V. Printed in U.S.A. June 2016.
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