



INNOVATIONS FOR LIVING™

# R-38C FIBERGLAS®

## Insulation for 2x12 Cathedral Ceilings

### Product Data Sheet

#### R-38C FIBERGLAS Insulation Unfaced, Kraft faced

##### Excellent Thermal Control

Owens Corning R-38C Thermal Batt Insulation is designed to provide maximum thermal performance for cathedral ceiling applications. R-38C Thermal Batt Insulation is available unfaced or with a kraft vapor retarder.

##### Long Term In-Place Performance

R-38C Thermal Batt Insulation is dimensionally stable and will not slump within the cathedral ceiling cavity. Due to its inorganic nature, Thermal Batt Insulation will not rot or mildew and is non-corrosive to steel, copper and aluminum.

##### Sized for Proper Ventilation

R-38C Thermal Batts are designed to eliminate R-value loss caused by compressing standard R-38 products in 2x12 cathedral ceiling construction. 10¼" thick, R-38C Batts prevent moisture damage and help assure long roof life by

providing 1" of ventilation air space between the insulation and roof deck.

##### Easy Installation

R-38C Thermal Batt Insulation is easy to handle and install. Designed to friction-fit in standard 2x12 cathedral ceiling construction, R-38C Batts eliminate the need, in most applications, for ventilation baffles. Trimming and fabrication can be done with an ordinary utility knife.

##### Technical Design Considerations

The kraft facing on this insulation will burn and must not be left exposed. Install facing in substantial contact with the finish material. Protect from open flame or other heat source.

Cathedral ceiling applications require that the building envelope block the movement of air from the outdoor environment to the conditioned space. Neither the insulation nor its facing should be relied upon to provide an air

barrier. Failure to provide an air barrier could lead to loss of thermal control, discomfort of the building occupants and frozen pipes.

#### Read This Before You Buy

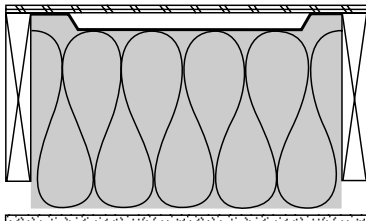
##### What you should know about R-Values

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate, the type and size of your home, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than you'll save on fuel.

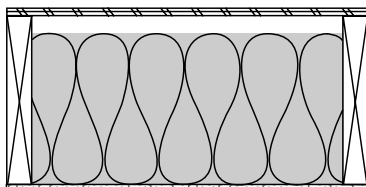
To get the marked R-value, it is essential that this insulation be installed properly.

12", R-38 Insulation Batts



Standard Batts compressed into a 11¼" cavity with ventilation baffle added to allow 1" air space deliver approximately R-35.

10¼", R-38C Insulation Batts



New R-38C batts provide the recommended ventilation air space when properly installed and deliver a full R-38.

#### Product Data

R-38C FIBERGLAS® Insulation

	Width	Length	Thickness	R-Value <sup>1</sup>
Cathedral Ceiling Construction	15½" (394mm) 23¾" (603mm)	48" (1,219mm)	10¼" (260mm)	38.0

<sup>1</sup>The higher the R-value, the greater the insulating power. Ask your Owens Corning representative for the fact sheet on R-values.

C Insulation for cathedral ceiling applications.

#### Available Vapor Retarder Facings

Max. by Volume

Kraft

1

#### Water Absorption

Max. by Volume

Less than 0.05%

#### Dimensional Stability

Linear Shrinkage

Less than 0.1%



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Owens Corning recommends that a vapor retarder should be used in most climates. In climates requiring winter heating, the vapor retarder should be placed toward the warm-in-winter side. In humid climates, like the Gulf Coast, follow local building practices for vapor retarder placement. In all applications utilizing a vapor retarder, maintaining the facing integrity may be important for effective moisture/humidity control. Repair any punctures or tears in the facing by taping. Follow the tape manufacture's application recommendations.

Insulation installed too close to light fixtures may affect the luminaire's performance. Do not install insulation on top of or within 3 inches of recessed light fixtures unless the fixtures are approved for such use. This is a requirement of the National Electric Code.

### Installation

R-38C Thermal Batts are intended to be friction-fit between wood rafters. In applications with irregular spaced rafters, cut the batts approximately 1/2" wider than the space and friction fit them in place. Tightly abut batts to prevent thermal leaks.

Provide vent openings at the eave and ridge. Cathedral ceiling insulation should be installed to provide a minimum 1" ventilation passageway between the roof deck and insulation. Use a vent baffle to assure proper clearance, where necessary.

### Applicable Standards

Unfaced R-38C Thermal Batt Insulation complies with ASTM C 665, Type I and ASTM E 136. Kraft-faced R-38C Thermal Batt

### Surface Burning Characteristics/Building Code Construction Classifications

Products	Flame Spread	Smoke Developed	ICBO	BOCAI	SBCCI	ICC
Unfaced	<25	<50	All Types	All Types	All Types	All Types
Kraft-faced	N/R	N/R	III, IV, V	3, 4, 5	III, V, VI	III, IV, V

Thermal batt insulation complies with Uniform Building Code (ICBO), National Building Code (BOCAI), Standard Building Code (SBCCI), and International Building Code (ICC) model code requirements for building construction types listed above.

The kraft facing on thermal batt insulation will burn and must not be left exposed. Install facing in substantial contact with the finish material. Protect from open flame or other heat source.

Insulation complies with ASTM C 665, Type II, Class C. Federal Specification HH-I-521F has been can-celled and is replaced by ASTM C 665.

The thermal resistance value for R-38C Thermal Batt Insulation was tested in accordance with ASTM C 518; R-value for insulation only.

The surface burning characteristics of R-38C Thermal Batt Insulation were derived from products tested in accordance with ASTM E 84. This standard is used solely to measure and describe properties of products in response to heat and flame under controlled laboratory conditions. These numerical ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions. Values are reported to the nearest five rating.

The vapor retarder permeance of the kraft facing on R-38C Thermal Batt Insulation was developed from tests conducted in accordance with ASTM E 96, desiccant method.

### Fiber Glass and Mold:

As manufactured, fiber glass insulation is resistant to mold growth. However, mold growth can occur on building materials, including insulation, when it becomes contaminated with organic material and when water is present. To avoid mold growth on fiber glass insulation, remove any water that has accumulated and correct or repair the source of that water as soon as possible. Insulation that has become wet should be inspected for evidence of residual moisture and contamination, and any insulation that is contaminated should be promptly removed and replaced.

**Caution:** Fiber glass insulation may cause temporary irritation to skin, eyes and respiratory tract. Wear long-sleeved, loose fitting clothing, gloves and safety glasses when handling and applying material. Wash with soap and warm water after handling. Wash work clothes separately and wipe out washer.



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