



Flame Spread 25 with Extended Flanges FIBERGLAS® Insulation

Product Data Sheet



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Facing Options

Flame Spread 25 FIBERGLAS insulation with extended flanges is available with standard FSK (foil/scrim/kraft) facing or optional white light reflective W-PSK (polypropylene/scrim/kraft) facing.

Improved Installation Quality Under 2x4 Wood Roof Decks

Flame Spread 25 FIBERGLAS insulation with extended flanges is designed for installation in 2x4 wood roof deck applications where the cavity depth is less than the specified insulation's nominal thickness. The reinforced vapor retarder provides specifically reinforced stapling flanges for attachment to framing members.

Maximum Thermal Performance for Exposed Applications

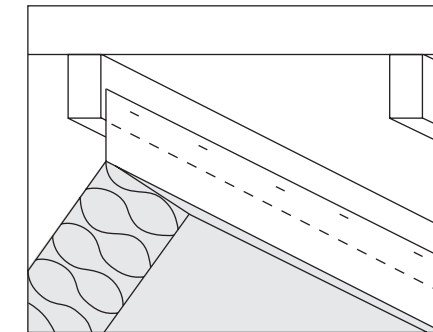
Flame Spread 25 FIBERGLAS insulation with extended flanges provides excellent thermal performance in 2x4 wood roof deck applications where the insulation will be left exposed or where a low flame spread vapor retarder is required. Flame Spread 25 FIBERGLAS insulation with extended flanges is available in a 6¼" thickness providing R-19 thermal performance.

Enhance Acoustical Performance

Flame Spread 25 FIBERGLAS insulation can help improve acoustical performance by increasing Sound Transmission Class (STC) and Impact Insulation Class (IIC) ratings.

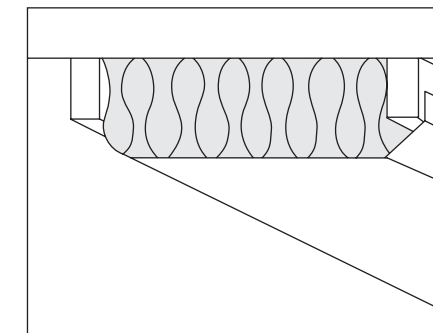
Installation Under 2x4 Wood Roof Deck

Flame Spread 25 FIBERGLAS insulation with extended flanges has a 4½" stapling flange on each side of the insulation batt. These wider flanges allow the 6¼", R-19 batts to be installed in 2x4 cavities without substantially compressing the insulation.



Note: R-30 Flame spread 25 insulation with extended flanges is available for 2x6 framing applications.

During installation, the first flange is aligned approximately in the center of the 2x4 framing using the extra edge reinforcement as a guide. Staple should be placed in this reinforcement area 6" on center with a staple within 1" of the end of the flange. Staples should be oriented in a diagonal pattern to straddle the reinforcement strands.



The batt is positioned into the cavity without compressing the insulation and the second flange

is then wrapped around the adjoining 2x4. The second flange is aligned approximately in the center of the framing using the extra edge reinforcement as a guide, securing the flange as described above.

Products should be kept dry during shipping, storage and installation.

Applicable Standards

Flame Spread 25 FIBERGLAS insulation complies with ASTM C 655, Type III, Class A. The base insulation meets ASTM E 136. Federal Specification HH-I-521F has been canceled and is replaced by ASTM C 665.

The thermal resistance values for Flame Spread 25 FIBERGLAS insulation were tested in accordance with ASTM C 518; R-value for insulation only.

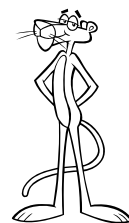
The surface burning characteristics of Flame Spread 25 FIBERGLAS insulation were derived from product tests per ASTM E 84. This standard is used solely to measure and describe properties of products in response to heat and flame under controlled laboratory conditions. These numerical ratings are not 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 facing on Flame Spread 25 FIBERGLAS insulation was determined from tests conducted in accordance with ASTM E 96, desiccant method.



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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.

Technical Data

Flame Spread 25 FIBERGLAS Insulation

R-Value ¹	K-Value	Width		Length		Thickness	
		in	mm	in	mm	in	mm
19.0	0.33	23	584	93 or 96	2,362	6¼	159
30.0	0.32	24	609	48	1,219	9½	241

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

Product Data

Vapor Retarder Facing	FSK/W-PSK
Perms Maximum	0.02

Water Absorption	FSK/W-PSK
Maximum by Volume	Less than 0.05%

Dimensional Stability	FSK/W-PSK
Linear Shrinkage	Less than 0.1%

Surface Burning Characteristics/Building Code Construction Classification

Product	Flame Spread	Smoke Developed	ICBO	BOCA	SBCCI	ICC
FSK/W-PSK	25	50	All Types	All Types	All Types	All Types
Poly-Faced	25	50	All Types	All Types	All Types	All Types
PSK-faced	25	50	All Types	All Types	All Types	All Types

Flame Spread 25 FIBERGLAS insulation complies with Uniform Building Code (ICBO), National Building Code (BOCA), Standard Building Code (SBCCI) and International Building Code (ICC) model code requirements for building construction types listed above.



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Technical Design Considerations

Flame Spread 25 FIBERGLAS insulation with extended flanges is designed to be installed in wall and ceiling cavities where the cavity depth is less than the insulation's nominal thickness. The extended flange allows attachment to framing without substantially compressing the insulation. Compressing insulation reduces thermal performance.

The need for and placement of a vapor retarder in commercial construction depends on many factors. The architect or specifier should evaluate the requirements of each project. When insulation is added to the inside perimeter of a structure, the area outside the insulation becomes exposed to greater temperature extremes. Building structures should be inspected to ensure they can withstand the additional expansion and contraction forces. Check for piping which should be protected against freezing.

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

Flame Spread 25 contains fiber glass wool, which is a possible cancer hazard. To avoid this possible cancer hazard, minimize breathing fiber glass wool dust. Use a properly fitted NIOSH or MSHA approved disposable dust respirator such as the 3M model 8210 (Model 8271 in high humidity environments) or equivalent when installing or removing this product in poorly-ventilated spaces such as attics or crawlspaces.

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.