

# Exterior Wall Insulation **Thermafiber® FS-15 & FS-25**

- + Exceptional performance in fire protection for low-rise commercial and multi-family residential structures
- + Fire resistant to temperatures above 2,000°F (1,093°C)
- + Excellent Thermal Performance (R-Value of 4.0 per inch)
- + Conserves energy, reduces Greenhouse gas and carbon emissions
- + Noncombustible
- + Mold Resistant
- + Available unfaced (FS-15) and foil faced (FS-25)



FS-15 & FS-25 provide fire protection, critical sound control and energy conservation in low-rise buildings such as schools and hospitals.

| LEED® Green Building Credits |  |                              |                      |  |
|------------------------------|--|------------------------------|----------------------|--|
| Energy & Atmosphere          | Materials & Resources                        | Indoor Environmental Quality | Innovation in Design |  |
| 1                            | 2.1, 2.2<br>3.1, 3.2<br>4.1, 4.2<br>5.1, 5.2 | 3.1, 3.2<br>9                | 1                    |  |

Up to **90%** Recycled Content

Contributes to 33 LEED credits across 4 categories.

**Thermafiber®**  
THE NAME IN MINERAL WOOL™



FS-25 with a vapor retarding foil facing is installed in an exterior stud wall.

# Thermafiber® FS-15 & FS-25

## Description:

THERMAFIBER FS-15 and FS-25 provide the best possible combination of fire containment, sound control, thermal insulation, and energy conservation for external walls and ceilings of low-rise or residential structures. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. Both products resist temperatures over 2000°F as compared to fiberglass insulation that melts around 1000°F. FS-15 and FS-25 can be installed in both wood-frame and steel-frame structures.

## Product Options:

- FS-15 Fire Safety Blankets, 1" or greater thickness, is only available unfaced
  - FS-25 Fire Safety Blankets, ≥ 3" thickness, is only available foil faced.
  - Recycled Content Options<sup>1</sup>:
    - Special "Green" Fiber ..... 90%
    - EPA Choice Fiber (US Government Buildings)..... 75%
    - Standard Fiber ..... 70%
- <sup>1</sup>Recycled content options other than standard must be specified at time of order.

## Installation:

- Blankets are typically installed in stud cavities of exterior walls or between mounted Z-furring to assure a snug friction fit for the full length of the studs. Butt ends of blankets closely together and fill all voids if necessary.
- FS-25 Blankets can also be installed in floor/ceilings and crawl spaces as listed above, making certain that the foil-face vapor retarder is in place to protect the cavity from moisture as directed by local code, typically on the warm side of the wall, or per the instructions of a professional architect or engineer.
- The FS-25 foil scrim facing may be attached to framing members with Thermafiber Aluminum Foil or FSK tape to maintain the vapor retarder

## Standard Sizes:

|            | Thickness                            | Widths            | Lengths |
|------------|--------------------------------------|-------------------|---------|
| FS-15      | 1", 1.5", 2", 3", 3 1/2", 5 1/4", 6" | 15", 16", 23" 24" | 48"     |
| FS-25      | 3", 3 1/2", 5 1/4", 6"               | 15", 16", 23" 24" | 48"     |
| Tolerances | +1/4" - 1/8"                         | ±1/8"             | ±1/2"   |

Other sizes available upon special request

## Technical Data:

| Product Designation | Actual Density | Tested to ASTM C 518                   |                                   | Tested to ASTM E 84 |                 |
|---------------------|----------------|--|-----------------------------------|---------------------|-----------------|
|                     |                | "k" @ 75° [24°C] BTU.in/ hr.sq. ft. °F | "R" value per inch of thickness** | Flame Spread        | Smoke Developed |
| 1" FS-15            | 4.0 pcf        | 0.24                                   | 4.2                               | 0                   | 0               |
| FS-15               | 3.0 pcf        | 0.25                                   | 4.0                               | 0                   | 0               |
| FS-25               | 3.0 pcf        | 0.25                                   | 4.0                               | 25                  | 0               |

\*\*R = thickness divided by 'k'

## Standards Compliance:

FS-15 & FS-25 meet the following standards:

- ASTM C 665** FS-15 Type I
- ASTM C 665** FS-25 Type III, Class A, Category I
- ASTM C 1104** Absorbs less than 1% by volume
- ASTM E 136** Rated Noncombustible per NFPA Standard 220
- ASTM E 96** FS-25 vapor retarder has a 0.02 Perm rating
- NFPA 101** Class A rated interior finish

Thermafiber FS-15 & FS-25 blankets are accepted by New York City under Calendar Nos. 35-66-SM, 173-77-SM and 34-66-SM, MEA 208-82-M

## Thermafiber Insolutions™:

Thermafiber offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED® Credit Information, and product recommendations. Contact our technical services department at 1-888-834-2371, or email [technicalservices@thermafiber.com](mailto:technicalservices@thermafiber.com).

## For Further Information:

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website [www.thermafiber.com](http://www.thermafiber.com).

## Notice:

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## Submittal Approvals:

|            |      |
|------------|------|
| Job Name   |      |
| Contractor | Date |

