Thermafiber® Safing™

- Exceptional performance in Perimeter Fire Containment Systems
- Provides life saving fire protection in rated assemblies
- Fire resistant to temperatures above 2,000°F (1,093°C)
- Easy to fabricate for through penetrations and firestopping
- Conserves energy, reduces greenhouse gas emissions
- Resists moisture
- Controls noise and sound

Thermafiber Safing and FireSpan® insulation provide the critical components of the perimeter fire containment system in the 111 South Wacker Building in Chicago, IL. Thermafiber insulation also contributed to the building’s LEED® Gold Rating.

LEED® v2009 Green Building Credits

<table>
<thead>
<tr>
<th>Minimum Recycled Content¹</th>
<th>70%</th>
<th>Energy &amp; Atmosphere</th>
<th>Materials &amp; Resources</th>
<th>Indoor Environmental Quality</th>
<th>Innovation in Design</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2.1, 2.2</td>
<td>4.1, 4.2</td>
<td>5.1, 5.2</td>
<td>9</td>
</tr>
</tbody>
</table>

¹Recycled Content

Thermafiber® Safing™ is compression fitted between FireSpan® insulation and the concrete slab edge to create a perimeter fire containment system.
**Thermafiber® Safing™ Insulation**

**Description:**
ThERMAFIBER Safing™ products are designed to provide life saving fire protection in perimeter fire containment systems, floor and wall penetrations, construction joints, and other firestopping applications. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. Thermafiber Safing provides thermal insulation, fire protection, and acoustical control in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings.

**Product Options:**
- Safing 4.0 pcf, 2” or greater thickness, is available with or without a vapor retarding foil facing.
- Safing 6.0 pcf, 1.5” or greater thickness, is available with or without a vapor retarding foil facing.
- Recycled Content Options:
  - EPA Choice Fiber (US Government Buildings).......Minimum 75%
  - Standard Fiber.......................................................... 70%
  
*Recycled content options other than Standard must be specified at time of order.

**Installation:**
All firestopping insulation should be installed per the architectural specification or system specific test description. All compressed Safing insulation should be installed per the listed assembly.
- Perimeter Installation: Safing™ insulation should be compression fitted between the slab edge and the FireSpan curtain wall insulation, leaving no voids.
- Penetration Application: Safing insulation should be cut slightly larger than the opening and compression fitted into the opening, leaving no voids.
- Construction Joint Application: Safing insulation should be compression fitted into the joint opening, leaving no voids.

**Standard Sizes:**

```
<table>
<thead>
<tr>
<th>Product</th>
<th>Thickness*</th>
<th>Widths**</th>
<th>Lengths**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safing 4.0 pcf</td>
<td>1” - 7”</td>
<td>16”, 24”, 36”</td>
<td>48”, 60”</td>
</tr>
<tr>
<td>Safing 6.0 pcf</td>
<td>1” - 7”</td>
<td>16”, 24”, 36”</td>
<td>48”, 60”</td>
</tr>
<tr>
<td>Tolerances</td>
<td>±1/4” - 1/8”</td>
<td>±1/8”</td>
<td>±1/2”</td>
</tr>
</tbody>
</table>
```

*Thicknesses are available in 1/8” increments. **Custom sizes are available upon request.

**Technical Data:**

```
<table>
<thead>
<tr>
<th>Product</th>
<th>Designation</th>
<th>Actual Density</th>
<th>“k” @ 75° [24°C] BTU.in/hr.sq. ft. °F</th>
<th>“R” value per inch of thickness***</th>
<th>Tested to ASTM C 518</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flame Spread Smoke Developed</td>
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<tr>
<td>4.0 pcf</td>
<td></td>
<td>0.24</td>
<td>0.24</td>
<td>&quot;R&quot;= 4.2</td>
<td>0 0 25 0</td>
</tr>
<tr>
<td>6.0 pcf</td>
<td></td>
<td>0.24</td>
<td>0.24</td>
<td>&quot;R&quot;= 4.2</td>
<td>0 0 25 0</td>
</tr>
</tbody>
</table>
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***R = thickness divided by 'k'

Safing™ insulation is a critical component of any perimeter fire containment system. Thermafiber® has performed decades of testing in all of the containment systems listed below. For more complete test information, see SA707, THERMAFIBER Life-Safety Fire Containment Systems technical catalog or UL® and Intertek® (formerly OPL) Directories. For a full listing of containment systems visit www.thermafiber.com and click on Fire Rated Assemblies. UL Reference = TYPE SAF

- Aluminum Spandrel Curtain Wall Fire Containment
- Steel Stud-Framed/Gypsum Sheathing Curtain Wall Fire Containment
- Granite Spandrel Curtain Wall Fire Containment
- Precast Concrete Spandrel

**Fire-Containment Tests Per ASTM E 2307**

- ASTM C 685  Non-corrosive, Type I, III
- ASTM C 612  Type IA, IB, II
- ASTM E 136  Rated Non-combustible per NFPA Standard 220
- CAN/ULC S114 Complies
- ASTM E 96  Unfaced, 50 Perms as tested
- ASTM E 96  Foil Faced, 0.02 Perms as tested
- ASTM C 1104 Absorbs less than 1% by volume
- CAN/ULC S102 Flame Spread 0, Smoke Developed 0
- ASTM E 814 or UL 1479 Safing Insulation used in conjunction with an approved fill, void, or cavity material sealant or other approved material in through – penetration firestop systems - Complies
- UL 2079 Safing Insulation used in conjunction with an approved fill, void or cavity material in construction joint systems - Complies
- CAN/ULC S115 Complies


**Standards Compliance:**

**Thermafiber® Insulations**
Thermafiber offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED® Credit Information, product recommendations, and customized products. Contact our technical services department at 1-888-834-2371, or email technicalservice@owenscorning.com

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website www.thermafiber.com.

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**Submittal Approvals:**

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Contractor</th>
<th>Date</th>
</tr>
</thead>
</table>

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