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.

- 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

LEED® v2009 Green Building Credits

<table>
<thead>
<tr>
<th>Minimum 70% Recycled Content</th>
<th>Energy and Atmosphere</th>
<th>Materials and Resources</th>
<th>Indoor Environmental Quality</th>
<th>Innovation in Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.1, 2.2</td>
<td>2.1, 3.2</td>
<td>4.1, 4.2</td>
<td>5.1, 5.2</td>
</tr>
</tbody>
</table>

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:
  Standard Fiber (Complies with EPA Preference Program) ............Minimum 75%

Installation
All firestopping insulation should be installed per the architectural wall section CC-SS-12 and the technical bulletin regarding perimeter fire containment joint design (ASTM E2307) at www.CavityComplete.com.

- 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>Thickness*</th>
<th>Widths**</th>
<th>Lengths**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safing 4.0 pcf</td>
<td>1&quot; - 7&quot;</td>
<td>16&quot;, 24&quot;, 36&quot;</td>
</tr>
<tr>
<td>Safing 6.0 pcf</td>
<td>1&quot; - 7&quot;</td>
<td>16&quot;, 24&quot;, 36&quot;</td>
</tr>
<tr>
<td>Tolerances</td>
<td>±1/4&quot;, ±1/8&quot;</td>
<td>±1/8&quot;</td>
</tr>
</tbody>
</table>

*Thicknesses are available in 1/2 in. increments.
**Custom sizes are available upon request.

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.

Thermafiber® Safing is compression fitted between exterior masonry and the exterior gypsum sheathing, or, the concrete slab edge to create a perimeter fire containment system.
Technical Data

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

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

Fire-Containment Tests Per ASTM E 2307
Safing insulation is a critical component of any perimeter fire containment system. Thermafiber® has performed decades of testing in all of the following containment systems:
- Aluminum Spandrel Curtain Wall Fire Containment
- Steel Stud-Framed/Gypsum Sheathing Curtain Wall Fire Containment
- Glass Spandrel Curtain Wall Fire Containment
- Granite Spandrel Curtain Wall Fire Containment
- Precast Concrete Spandrel

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

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.

For Further Information
For additional information about Thermafiber® Safing Insulation contact us at 844-CAV-COMP or visit www.CavityComplete.com.

Notice
Thermafiber, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Thermafiber® liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

Standards Compliance
Safing Insulation meets the following:
- ASTM C 665 Non-corrosive, Type I, III
- ASTM C 612 Type IA, IB, II
- ASTM E 136 Rated Non-combustible per NFPA Standard 220
- 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
- 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.
- UL 2079 Safing Insulation used in conjunction with an approved fill, void or cavity material in construction joint systems


The CavityComplete® Wall System excludes the masonry veneer, steel studs and interior and exterior gypsum board. A detailed list of the components is available at www.CavityComplete.com.