



No matter what kind of building project you have,

***Thermafiber® insulation is with you from the ground floor***



**Thermafiber®**



PULL HERE

# And takes you all the way to the top

That's why Thermafiber is specified **4 to 1**  
over other brands of commercial mineral wool insulation\*



Sound Attenuation  
Fire Blankets for  
interior walls



FireSpan™  
90 and 40  
and Safing  
Insulation  
for exterior  
walls



Proprietary Impasse®  
Insulation Hangers

TopStop™ firestopping  
and construction joints





**The Hearst Tower**  
New York City  
Gold LEED Rating



**111 South Wacker Drive**  
Chicago  
Gold LEED Rating

Emporis Image No. 366645 © Daniel Kiekhöwer / Emporis.com

**The William Jefferson Clinton Presidential Library**  
Little Rock, AR  
Silver LEED Rating



Emporis Image No. 418678 © Jeff Howell / Emporis.com

**Taipei 101**  
Taipei, Taiwan



Emporis Image No. 383867 © Daniel M. Shih / Emporis.com



**The Petronas Towers**  
Kuala Lumpur, Malaysia

# ***Thermafiber Insolutions®*** ***Insulation Solutions***

## **Innovative insulation products and ideas that make it easier to get the job done**

Insulation is one of the most important elements of a building. It conserves energy, reduces sound and contains fire. Yet commodity insulation suppliers treat insulation like something to be delivered and forgotten about.

Instead of just unloading batts of insulation at the jobsite, we work with you from beginning to end. Thermafiber Insolutions® is a five-pronged approach that makes insulation planning, ordering and installing successful and pain-free:

- 1. All-Phase Consultation***
- 2. High-Performance Products***
- 3. Time-Saving Insulation Hanger Systems***
- 4. Labor-Saving Customization and Packaging***
- 5. Safe & Sustainable Insulation***



Applying innovative  
insulation ideas  
since 1934.

### **On the cover:**

The new 7 World Trade Center, 250 Greenwich Street, New York City. Completed April 2006. Protected by Thermafiber FireSpan, Safing and Sound Attenuation Fire Blankets (SAFB) mineral wool insulation. Gold LEED® Rating.





## We insulate you from problems

Constructing a building means managing hundreds of details before the foundation is even poured. Thermafiber Insolutions™ lightens your load by helping you manage the insulation details. We provide professional consultation services at all phases of construction—at no extra cost. We offer:

- **In-person meetings** with design professionals
- **Expert engineering judgments** based on a thorough review of building plans and over 37 years of testing experience
- **Recommendations for specific products** and fire containment systems approved by Underwriters Laboratories, Inc. (UL) and Intertek (formerly OPL)
- **Computer-Aided Design** (CAD) drawings in 2D, 3D, and isometric to enhance project details, bid and installation accuracy
- **A knowledge base** of current building codes, test standards and application techniques
- **Published testing reports** for Thermafiber products
- **Consultation on good design practices** for fire containment, such as the optimum combination of curtain wall and safing insulation for all types of configurations, including glass, aluminum, concrete and stone spandrels

## 1. All-Phase Consultation

Your dedicated Thermafiber  
Field Representative is  
available to meet with you  
throughout the duration  
of your building project.  
Count on it!

## 2. High-Performance Products

### If you can't stand the heat, get out of the building: Why Thermafiber products scorch the competition

Of course you have a choice when it comes to the type of insulation you use in your buildings. Here's why Thermafiber mineral wool sets the standard in fire containment.

In addition to the energy saving and sound control properties, Thermafiber insulation also provides containment for fire and smoke so it doesn't spread to other floors. In multi-story buildings with a lot of people, that job isn't just important, it's a matter of life and death.

In 1971, Thermafiber, Inc. (then a division of United States Gypsum, USG) pioneered the testing of curtain wall fire containment systems for multi-story construction. We continue to add new tests each year.

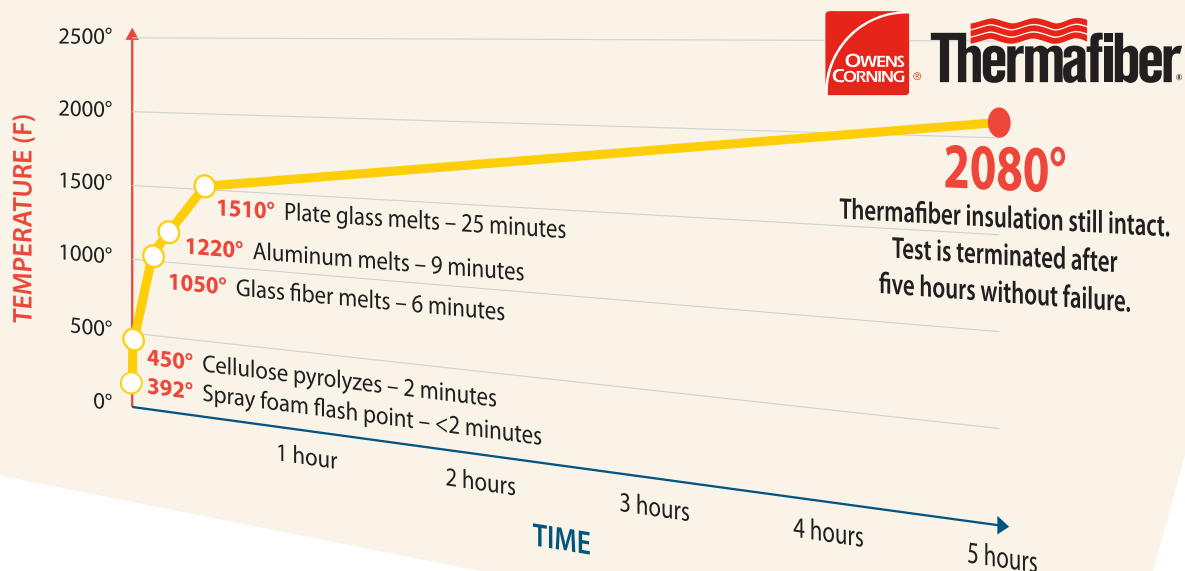
We do this because we know you want the type of insulation that withstands the highest heat for the longest time (so people can escape and firefighters can respond). Thermafiber is "Born in Fire™" because its raw material is actually a byproduct of the steel industry, formed at temperatures above 2600°F.

And that means Thermafiber mineral wool can take a lot of extreme heat.

As you can see from the chart below, ordinary glass fiber and cellulose insulation melt or decompose at relatively low temperatures in minutes. But Thermafiber is still intact at 2080° F— even after five hours.

#### Fire Performance Test (ASTM E119)

*Thermafiber far outlasts cellulose and glass fiber*





# Longer lasting at higher temperatures: Thermafiber is the hands-down choice for curtain walls, interior walls, and exterior walls

## Curtain Wall Products

### New! Impasse® Curtain Wall Systems

- Designed for perimeter fire containment systems
- Patented installation technique locks the fire barrier
- Proprietary hangers make installation highly accurate
- Simpler and faster to install than any other system available

### Thermafiber FireSpan® 90 and FireSpan® 40

- Highly fire and smoke resistant
- Provides 1-, 2- and 3-hour protection in a variety of curtain wall assemblies
- Unfaced felt or foil facing that serves as a vapor retarder
- Tested, listed and labeled for UL and Intertek assemblies
- Custom sizes to fit specific spandrel openings

### Thermafiber Safing Insulation

- Stop the spread of fire and smoke between floors
- Also ideal for poke-throughs, penetrations and construction joints

## Multi-Purpose Products

### VersaBoard™ 35, 40, 60, 80

- Designed for various commercial construction applications
- Engineered to control sound and provide energy saving thermal protection
- Available with multiple facings

## Interior Wall and Ceiling Products

### SAFB (Sound Attenuation Fire Blankets)

- Specifically designed for sound control between floors and walls
- Subjected to more third-party fire, sound and thermal tests than any other mineral wool product
- Thermafiber SAFB has demonstrated an improvement of STC (Sound Transmission Class) ratings by up to 11 points

### SoundZero®

- Fabric-faced acoustical blanket for interiors of theaters, sound studios and other areas where noise reduction is important
- Material is a unique blend of textile glass and flame-resistant fibers
- Offers a high R value relative to its thickness and density

## Exterior Wall Products

### Thermafiber FS-15 and FS-25

- Proven superiority over comparable low-melt temperature insulation products
- Better life-safety protection for low-rise commercial buildings
- Excellent thermal resistance reduces heat transmission, saves energy and improves occupant comfort

### Thermafiber RainBarrier® 45 & RainBarrier® HD

- Specifically designed for rain screen applications
- Drains condensation, driving rain or humidity that enters façade system
- Provides increased thermal insulation and life safety
- Highly UV resistant
- Tested, proven formulation maintains integrity over life of building

Your Thermafiber field representative will oversee an insulation plan that works best for you. Call 1-888-834-2371 for a consultation.



### 3. Time-Saving Insulation Hanger Systems

#### **Impasse®: Saves lives, time and money**

If you've ever been involved with installing curtain wall insulation or a perimeter fire containment system, you may have thought there must be a better way to do it. We thought the same thing.

**New! Patented Impasse Curtain Wall Insulation Systems save money by reducing installation time.** Our engineers took a look at how curtain wall systems are usually installed and realized things needed to be changed.

Instead of using hard-to-handle impaling pins, Impasse uses hangers that are inserted into FireSpan insulation before installing spandrel insulation. This makes positioning faster, more accurate and safe.

And, Impasse makes your curtain wall insulation perform better. It uses a stepwise technique of overlapping components during installation that lock the fire barriers in place. This virtually eliminates the possibility of insulation materials being dislodged by violent air forces produced when fire breaks out.



**Go with Thermafiber, and you'll be ready to hang up the old way of insulating curtain wall systems forever.**



Proprietary Impasse Insulation Hangers help improve accuracy and reduce installation time.





## ***4. Labor-Saving Customization and Packaging***

### **Our blades are sharpened and ready to go**

Conventional insulation manufacturers send you a truckload of insulation and expect you to cut it at your jobsite, incurring high labor costs. Thermafiber headquarters has a top-flight customization shop, where we'll cut insulation to your exact specifications ahead of time, and deliver it ready to be installed. Special sizes, special shapes, special facings—you name it and we've probably already done it.

We offer customized solutions that give you:

- Custom sizes
- Custom shapes
- Unitized packaging
- Custom labeling
- Custom loading

**Why pay your guys to cut it on site? Order  
from Thermafiber pre-cut, packaged and  
ready to go.**

## 5. Safe & Sustainable Insulation

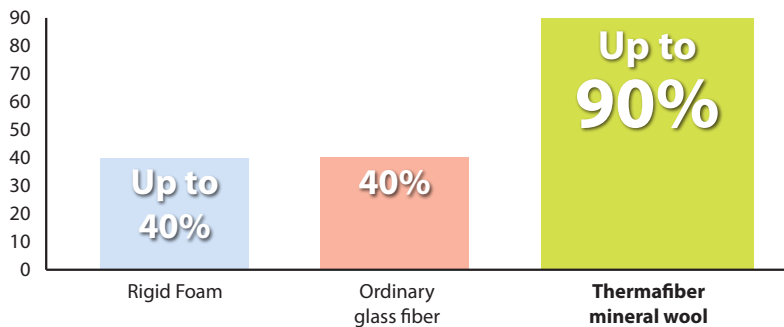
### Slag is a beautiful thing

What the steel industry throws away is the secret to success for Thermafiber mineral wool. It's also the secret to having high recycled content.

The largest "mineral" part of mineral wool is actually blast furnace slag, which is a valuable by-product of high-temperature steel manufacturing. We heat slag in a cupola furnace at temperatures in excess of 2600° F, then spin the molten substance into billions of fibers. The finished product insulates, controls sound and contains fire.

Thermafiber products contain up to 90% recycled slag. As you can see from the graph, other types of insulation (for example, rigid foam and glass fiber) pale in comparison, with 40% and 50% recycled material.

#### Highest available recycled content in commercial insulation



Thermafiber products contribute to 33 LEED® credits across four categories.



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Made in the USA



Call 1-888-834-2371 or go to [www.thermafiber.com](http://www.thermafiber.com) for more information or to arrange an appointment with your dedicated field representative today.