Step 4 - Install smoke sealant material at the sealant manufacturer's specified wet thickness, spray-applied over the top of the Safing Insulation, lapping a minimum of a 1/2" onto the top surface of the floor and on to the curtail wall insulation and mullion covers. See Figure 6.

**Smoke Sealant**

## Standards Compliance

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**LEED® Green Building Credits**

- **Energy & Atmosphere**
  - 1. I2, I3, I4
  - 2. I2, I3, I4
  - 3. I2, I3, I4
  - 4. I2, I3, I4
  - 5. I2, I3, I4
  - 6. I2, I3, I4

**Thermafiber Insulations**

Thermafiber also supports the No Backer-Bar installation system, which can be seen and demonstrated at Impasse® Curtain Wall Insulation System. FireSpan is designed for use with Thermafiber's patented, labor saving, high-performance products. Thermafiber Insulations, a customizable high-performance insulation and packaging system, also includes Insulation Installations Services (IIS) for complete system installation.

**It's Easy To Specify Thermafiber**

1. Go to www.thermafiber.com or log on to your favorite spec service website:
   - www.arcat.com
   - www.4specs.com
   - www.arcat.com
   - www.sweets.com
   - www.4specs.com
2. Type "Thermafiber" in the search box
3. Click on "Thermafiber" or follow the link to Thermafiber.com and click on "Thermafiber specs"

**Thermafiber, Inc.**

3715 Mill Street
Wabash, IN 46992

Tel: 260-563-2111
Fax: 260-563-8979

E-Mail: info@thermafiber.com
www.thermafiber.com

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**NO BACKER-BAR™ SYSTEM INSTALLATION GUIDE**

- UL approved and listed
- Increases the overall R-value of the building envelope
- Provides up to 3 hours of fire protection in curtain wall systems
- Patent pending design
- Saves time and money
- Eliminates the backer bar completely
Why most systems require a backer/reinforcement member.

A backer reinforcement member can be a galvanized 20 gauge steel angle, T-bar or hat channel. This member is installed behind the curtain wall insulation at the safe-off line as a means of keeping the curtain wall insulation from bowing due to the 25-50% compression fit of the Safing® Insulation, depending on the listed design. See Figure 1 which shows the location of the backer/reinforcement member. Typically, without this member, the force from installing the Safing Insulation under high compression causes the curtain wall insulation to bow. Since the Safing Insulation cannot follow the plane of the bowed curtain wall insulation, small gaps form. In the event of a fire, these small gaps will allow flame and hot gases to spread vertically to the next floor. Why most systems require a backer/reinforcement member.

Thermafiber offers a system that does not incorporate a backer/reinforcement member.

Thermafiber has developed a 2 and 3 hour, UL Perimeter Fire Containment design that eliminates the need for installing a backer/reinforcement member(CW-D-1012 and CW-D-1013). This system incorporates a FireLedge®, mineral wool insulation shelf, in combination with spiral anchors to provide support to the Safing Insulation and to prevent the curtain wall insulation from bowing. See Figure 2.

What are the advantages of a No Backer Bar System?

- Systems that include a backer/reinforcement member require mechanical attachment to the vertical mullions. Many curtain wall manufacturers want to minimize penetrations in the aluminum mullions with mechanical fasteners. The No Backer Bar System eliminates the need to make holes in the aluminum framing for a backer/reinforcement member.
- By not having to install a backer/reinforcement member, the No Backer Bar System significantly reduces installation time and labor costs.
- This system increases the R-Value of the assembly by requiring a minimum of 3” thick FireSpan® 90 insulation, and allows the space to be used after the no backer bar is present.
- Often curtain wall mounting anchors are in locations that make it impossible to properly install a backer/reinforcement member. Eliminating the need for a backer bar simplifies the installation.
- A metal panel system, also known as a back pan design, requires that the backer/reinforcement member be mechanically attached to the back pan. Since the back pan is typically used to provide a vapor barrier, penetrating the panel with fasteners for the reinforcement member, may compromise the continuity of the vapor barrier. The No Backer Bar System eliminates the need to mechanically attach to the metal backpan.
- Backer/reinforcement members used with transparent spandrel glass are not aesthetically appealing. The metal channels can be seen through the glass. Using the No Backer Bar system eliminates the need for unsightly metal members.
- Many times backer/reinforcement members are improperly installed. The use of the no backer bar system eliminates potential installation errors.

How is the No Backer Bar System installed?

Step 1- Mechanically install a minimum 3” thick FireSpan 90 Insulation with Thermafiber Impasse Hangers into the spandrel framing opening so that the insulation is flush with interior face of the aluminum framing. Horizontal hangers are installed 6” in from each mullion and then spaced a maximum of 16” oc. Vertical hangers are installed 6” down from the top of the insulation panel and 6” from the bottom of the insulation panel.

Step 2: The next step is to install the FireLedge Insulation. The FireLedge is a FSP faced insulation 12” wide by 2” thick with the 6” wide section cut down to 1” thick. See Figure 3. The FireLedge is installed in conjunction with the Safing Insulation. Rest the Safing on the 1st ledge of the FireLedge. The Safing Insulation is to be put in under a minimum 25% compression with the fibers in the vertical direction and installed at a depth of 4”. Compress the Safing Insulation so that it can be installed in the safe-off opening. The FireLedge will run continuously over the FireSpan 90 Insulation and the vertical mullions at the floor level so that the 1” thick portion extends 2” above the top surface of the floor with the vertical seams abutted tightly together. Vertical seams in the FireLedge must be staggered with the vertical seams in the Safing Insulation. The top portion of the FireLedge is secured to the FireSpan 90 Insulation with spiral anchors installed at a 45° angle through the Safing Insulation every 12” oc. See Figure 3. The lower section of the FireLedge is secured to the FireSpan 90 with spiral anchors installed at a 90° angle every 16” oc. See Figures 3 and 4.

No Backer Bar Installation (cont.)

Step 3- Protect exposed vertical mullions with 2” minimum thickness x 10” wide FireSpan 90 Insulation Mullion Covers. Mullion Covers are to be centered over mullions and secured to curtain wall insulation with Spiral Anchors spaced a maximum of 12” oc. Mullion Covers are to be notched to step over the FireLedge material and abut the top of the FireSpan Mullion Covers below the floor will abut to the bottom of the FireLedge material. See Figure 5.

No Backer Bar Installation (cont.)

Step 2: The next step is to install the FireLedge Insulation. The FireLedge is a FSP faced insulation 12” wide by 2” thick with the 6” wide section cut down to 1” thick. See Figure 3. The FireLedge is installed in conjunction with the Safing Insulation. Rest the Safing on the 1st ledge of the FireLedge. The Safing Insulation is to be put in under a minimum 25% compression with the fibers in the vertical direction and installed at a depth of 4”. Compress the Safing Insulation so that it can be installed in the safe-off opening. The FireLedge will run continuously over the FireSpan 90 Insulation and the vertical mullions at the floor level so that the 1” thick portion extends 2” above the top surface of the floor with the vertical seams abutted tightly together. Vertical seams in the FireLedge must be staggered with the vertical seams in the Safing Insulation. The top portion of the FireLedge is secured to the FireSpan 90 Insulation with spiral anchors installed at a 45° angle through the Safing Insulation every 12” oc. See Figure 3. The lower section of the FireLedge is secured to the FireSpan 90 with spiral anchors installed at a 90° angle every 16” oc. See Figures 3 and 4.

No Backer Bar Installation (cont.)
Thermafiber offers a system that does not incorporate a backer/reinforcement member.

Thermafiber has developed a 2 and 3 hour, UL Perimeter Fire Containment design that eliminates the need for installing a backer/reinforcement member (CDW-D-1012 and CW-D-1013). This system incorporates a FireLedge®, mineral wool insulation shelf, in combination with spiral anchors to provide support to the Safing Insulation and to prevent the curtain wall insulation from bowing. See Figure 2.

The FireLedge system eliminates the need for a backer/reinforcement member. The FireLedge is installed in conjunction with the Safing Insulation. The FireLedge is a FSP Insulation Mullion Covers. Mullion Covers are to be centered over vertical mullions at the floor level so that the 1” thick portion extends 2” above the top surface of the floor with the vertical seams abutted tightly together. Vertical seams in the FireLedge must be staggered with the vertical seams in the Safing Insulation.

Step 1- Mechanically install a minimum 3” thick FireSpan 90 Insulation with Thermafiber Impasse Hangers into the spandrel framing opening so that the insulation is flush with the interior face of the aluminum framing.

Horizontal hangers are installed 6” in from each mullion and then spaced a maximum of 16” oc. Vertical hangers are installed 6” down from the top of the insulation panel and 6” from the bottom of the insulation panel.

Step 2: The next step is to install the FireLedge Insulation. The FireLedge is a FSP Insulation Mullion Covers. Mullion Covers are to be centered over mullions and secured to curtain wall insulation with Spiral Anchors spaced a maximum of 12” oc. Mullion Covers are to be notched to step over the FireLedge. See Figure 3. The FireLedge is installed in conjunction with the Safing Insulation. Rest the Safing on the 1” ledge of the FireLedge. The Safing Insulation is to be put in under a minimum 25% compression with the fibers in the vertical direction and installed at a depth of 4”. Compress the Safing Insulation so that it can be installed in the safe-off opening. The FireLedge will run continuously over the FireSpan 90 Insulation and the vertical mullions at the floor level so that the 1” thick portion extends 2” above the top surface of the floor with the vertical seams abutted tightly together. Vertical seams in the FireLedge must be staggered with the vertical seams in the Safing Insulation.

The metal channels can be seen through the glass. Using the No Backer Bar system eliminates the need for unsightly metal members.

Backer/reinforcement members used with transparent spandrel glass are not aesthetically appealing. The metal channels can be seen through the glass. Using the No Backer Bar system eliminates the need for unsightly metal members.

The No Backer Bar system eliminates the need for a backer/reinforcement member. Eliminating the need for a backer bar simplifies the installation.

Often curtain wall mounting anchors are in locations that make it impossible to properly install a backer/reinforcement member. Eliminating the need for a backer bar simplifies the installation.

By not having to install a backer/reinforcement member, the No Backer Bar System significantly reduces installation time and labor costs.

Many times backer/reinforcement members are improperly installed. The use of the no backer bar system eliminates potential installation errors.

Why most systems require a backer/reinforcement member.

A backer reinforcement member can be a galvanized 20 gauge steel angle, T-Bar or hat channel. This member is installed behind the curtain wall insulation at the safe-off line as a means of keeping the curtain wall insulation from bowing due to the 25-50% compression fit of the Safing® Insulation, depending on the listed design.

See Figure 1 which shows the location of the backer/reinforcement member. Typically, without this member, the force from installing the Safing Insulation under high compression causes the curtain wall insulation to bow. Since the Safing Insulation cannot follow the plane of the bowed curtain wall insulation, small gaps form. In the event of a fire, these small gaps will allow flame and hot gases to spread vertically to the next floor.

What are the advantages of a No Backer Bar System?

- Systems that include a backer/reinforcement member require mechanical attachment to the vertical mullions. Many curtain wall manufacturers want to minimize penetrations in the aluminum mullions with mechanical fasteners. The No Backer Bar System eliminates the need to make holes in the aluminum framing for a backer/reinforcement member.

- By not having to install a backer/reinforcement member, the No Backer Bar System significantly reduces installation time and labor costs.

- This system increases the R-Value of the assembly by requiring a minimum of 3” thick FireSpan® 90 insulation, and allows the space between the mullions to be kept constant. Since the Safing Insulation under high compression eliminates the need for a backer bar.

- Often curtain wall mounting anchors are in locations that make it impossible to properly install a backer/reinforcement member. Eliminating the need for a backer bar simplifies the installation.

- A metal panel system, also known as a back pan design, requires that the backer/reinforcement member be mechanically attached to the back pan. Since the back pan is typically used to provide a vapor barrier, penetrating the panel with fasteners for the reinforcement member, may compromise the continuity of the vapor barrier. The No Backer Bar System eliminates the need to mechanically attach to the metal backpan.

- Backer/reinforcement members used with transparent spandrel glass are not aesthetically appealing.

- Many times backer/reinforcement members are improperly installed. The use of the no backer bar system eliminates potential installation errors.

How is the No Backer Bar System installed?

Step 1- Mechanically install a minimum 3” thick FireSpan 90 Insulation with Thermafiber Impasse Hangers into the spandrel framing opening so that the insulation is flush with the interior face of the aluminum framing. Horizontal hangers are installed 6” in from each mullion and then spaced a maximum of 16” oc. Vertical hangers are installed 6” down from the top of the insulation panel and 6” from the bottom of the insulation panel.

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Figure 1

Figure 2

Figure 3

Figure 4
Thermafiber offers a system that does not incorporate a backer/reinforcement member.

Thermafiber has developed a 2 and 3 hour, UL Perimeter Fire Containment design that eliminates the need for installing a backer/reinforcement member (CW-D-1012 and CW-D-1013). This system incorporates a FireLedge®, mineral wool insulation shelf, in combination with spiral anchors to provide support to the Safing Insulation and to prevent the curtain wall insulation from bowing. See Figure 2.

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- By not having to install a backer/reinforcement member, the No Backer Bar System significantly reduces installation time and labor costs.
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How is the No Backer Bar System installed?

Step 1- Mechanically install a minimum 3” thick FireSpan 90 Insulation with Thermafiber Impasse Hangers into the spandrel framing opening so that the insulation is flush with the interior face of the aluminum framing. Horizontal hangers are installed 6” in from each mullion and then spaced a maximum of 16” oc. Vertical hangers are installed 6” down from the top of the insulation panel and 6” from the bottom of the insulation panel. See Figure 3. The FireLedge is installed in conjunction with the Safing Insulation. The top section of the FireLedge must be staggered with the vertical seams in the Safing Insulation.

No Backer Bar Installation (cont.)

Step 2- The next step is to install the FireLedge Insulation. The FireLedge is a FSP faced insulation 12” wide by 2” thick with the 6” wide section cut down to 1” thick. See Figure 3. The FireLedge is installed in conjunction with the Safing Insulation. Rest the Safing on the 1st ledge of the FireLedge. The Safing Insulation is to be put in under a minimum 25% compression with the fibers in the vertical direction and installed at a depth of 4”. Compress the Safing Insulation so that it can be installed in the safe-off opening. The FireLedge will run continuously over the FireSpan 90 Insulation and the vertical mullions at the floor level so that the 1” thick portion extends 3” above the top surface of the floor with the vertical seams abutted tightly together. Vertical seams in the FireLedge must be staggered with the vertical seams in the Safing Insulation. The top section of the FireLedge is secured to the FireSpan 90 Insulation with spiral anchors installed at a 45° angle through the Safing Insulation every 12” oc. See Figure 3. The lower section of the FireLedge is secured to the FireSpan 90 with spiral anchors installed at a 90° angle every 16” oc. See Figures 3 and 4.

Step 3- Protect exposed vertical mullions with a 2” minimum thickness x 10” wide FireSpan 90 Insulation Mullion Covers. Mullion Covers are to be centered over mullions and secured to the curtain wall insulation with Spiral Anchors spaced a maximum of 12” oc. Mullion Covers are to be notched to step over the FireLedge material and abut the top of the Safing Insulation. Mullion Covers below the floor will abut to the bottom of the FireLedge material. See Figure 5.
Standards Compliance

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</tr>
<tr>
<td>ASTM E 1104</td>
<td>Absorbs less than 1% by volume</td>
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</tbody>
</table>

Thermofiber Insulations*

Thermofiber also supports the No Backer-BAR installation system (and all of its mineral wool products) with Thermofiber Insulations, a customized five-pronged approach that helps you easily and successfully plan, design, order and install insulation, Insolutions include:

- Labor-saving customization and packaging
- High-performance products
- Time-saving insulation
- Labor-saving insulation
- Safe & Sustainable insulation

*No Backer Bar System

Step 4 - Install smoke sealant material at the sealant manufacturer’s specified wet thickness, spray-applied over the top of the Safing Insulation, lapping a minimum of 1/2” onto the top surface of the floor and on to the curtain wall insulation and mullion covers. See Figure 6.

No Backer Bar Installation (cont.)

Smoke Seant

Completely Installed No Backer Bar System

It’s Easy To Specify Thermofiber

To specify the NO BACKER-BAR™ System, just:

1. Go to www.thermafiber.com or log on to your favorite online source. For example:
   - www.arcat.com
   - www.4specs.com
   - www.sweets.com
   - www.arcat.com
2. Type “Thermafiber” in the search box
3. Click on “Specs” or follow the link to Thermofiber.com and click on “Architectural Specs”

Thermofiber Insulations

Thermofiber also supports the No Backer-Bar installation system (and all of its mineral wool products) with Thermofiber Insulations, a customized five-pronged approach that helps you easily and successfully plan, design, order and install insulation, Insolutions include:

- Labor-saving customization and packaging
- High-performance products
- Time-saving insulation
- Labor-saving insulation
- Safe & Sustainable insulation

You need to tailor your building more energy efficient, fire resistant, and acoustic efficient. The secret to having high recycled content. Thermafiber products contain up to 90% recycled slag. Developed from the slags coming out of a steel furnace at temperatures in excess of 2600° F, then spin formed into a cupola 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 formed into a cupola furnace slag, which is a valuable by-product of high-temperature steel manufacturing.

Thermofiber also supports the No Backer Bar System, a completely installed no backer bar system. It’s easy to specify Thermofiber.

Thermofiber Insulations

Thermofiber also supports the No Backer-Bar installation system (and all of its mineral wool products) with Thermofiber Insulations, a customized five-pronged approach that helps you easily and successfully plan, design, order and install insulation, Insolutions include:

- Labor-saving customization and packaging
- High-performance products
- Time-saving insulation
- Labor-saving insulation
- Safe & Sustainable insulation

Call 1-888-834-2371 or go to www.thermafiber.com for more information or to arrange an appointment with your dedicated field representative today.

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Fax: 260-563-8979
Toll Free: 888-834-2371
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3711 Mill Street
No Backer Bar Installation (cont.)

Step 4- Install smoke sealant material at the sealant manufacturer’s specified wet thickness, spray-applied over the top of the Safing Insulation, lapping a minimum of a 1/2” onto the top surface of the floor and on to the curtain wall insulation and mullion covers. See Figure 6.

Standards Compliance

| ASTM E 2307 | UL Design CM-D-1012 and CM-D-1013 (when tested as an assembly) |
| ASTME 665 | Type IA (silica, calcium silicate) |
| ASTM C 612 | FireSpan 10 and FireSpan Types IA, IB, IC, IIC, II |
| ASTM C 612 | Safety Insulation Types IA, IB, IC, IIC, II |
| ASTM E 136 | Tested Noncombustible per NFPA Standard 251 |
| ASTM E 84 | Fireboard-Flame Spread 0; Smoke Developed 0 |
| ASTM E 84 | Flat Panel: Flame Spread 25, Smoke Developed 0 |
| ASTM E 1104 | Absorbs less than 1% by volume |

Smoke Sealant

Completely Installed No Backer Bar System

Thermafiber Insulations®

Thermafiber also warrants the fire-backer-bar installation below: Part of a curtain-walling system and wall systems, Thermafiber Insulations, a customized fireproofed solution, and Thermafiber Impasse® Curtain Wall Insulation System.

- Fireproofed solutions
- UL approved and listed
- Increases the overall fire efficiency and fire stopping in curtain wall insulation
- UL Design CW-D-1012 and CW-D-1013 (tested as an assembly)
- FireSpan 90 and FireLedge Types IA, Unfaced-Flame Spread 0, Smoke Rated Non-combustible per NFPA
- Patent pending design
- Provides up to 3 hours of smoke containment
- Eliminates the backer bar
- Conserves energy, reduces insurance, and decreases potential health and safety issues
- Safing Insulation Types IA, IB, II
- Safing Insulation Types IA, IB, II
- Mold resistant
- High recycled content
- Safe & Sustainable Insulation
- LEED® is a registered trademark of U.S. Green Building Council

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ASTM C 1104

+ ASTM C 1104

ASSTM C 1104

ASTM C 1104

+ ASTM C 1104

+ ASTM C 665

+ ASTM E 2307

+ ASTM E 84

+ ASTM E 136

+ ASTM C 612

+ ASTM C 1104

It’s Easy To Specify Thermafiber

To specify the Impasse Bar System, just:

1. Go to www.thermafiber.com or log on to your favorite spec service website.

2. Type “Thermafiber” in the search box

3. Click on “Specs” or follow the link to Thermafiber.com and click on “Architectural Specs”


www.arcat.com

www.4specs.com

www.thermafiber.com

www.architecturalspecs.com

* Reed Construction Data 2010

Thermafiber Insolutions—A customized five-pronged system (and all of its mineral wool products) with labor-saving customization and packaging.

Thermafiber also supports the No Backer-Bar installation. Thermafiber Insulations are a customized fireproofed solution, and Thermafiber Impasse® Curtain Wall Insulation System.

- Increases the overall R-value of the building envelope
- Provides up to 3 hours of fire protection in curtain wall systems
- Patent pending design
- Saves time and money
- Eliminates the backer bar completely

Thermafiber Insulations

Thermafiber: Architecture, Design and Resources

Call 1-888-834-2371 or go to www.thermafiber.com for more information or to arrange an appointment with your dedicated field representative today.

* Revised Construction Data 2012

Thermafiber Insulations

Specified Mineral Wool Insulation

Fireproofed curtain wall insulation

Fireproofed solutions

UL approved and listed

Increases the overall fire efficiency and fire stopping in curtain wall insulation

UL Design CW-D-1012 and CW-D-1013 (tested as an assembly)

FireSpan 90 and FireLedge Types IA, Unfaced-Flame Spread 0, Smoke Rated Non-combustible per NFPA

Patent pending design

Provides up to 3 hours of smoke containment

Eliminates the backer bar

Conserves energy, reduces insurance, and decreases potential health and safety issues

Safe & Sustainable Insulation

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ASTM C 1104

+ ASTM C 1104

ASSTM C 1104

ASTM C 1104

+ ASTM C 1104

+ ASTM C 665

+ ASTM E 2307

+ ASTM E 84

+ ASTM E 136

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+ ASTM E 136

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+ ASTM C 1104

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2. Type “Thermafiber” in the search box

3. Click on “Specs” or follow the link to Thermafiber.com and click on “Architectural Specs”


www.arcat.com

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Increases the overall fire efficiency and fire stopping in curtain wall insulation

UL Design CW-D-1012 and CW-D-1013 (tested as an assembly)

FireSpan 90 and FireLedge Types IA, Unfaced-Flame Spread 0, Smoke Rated Non-combustible per NFPA

Patent pending design

Provides up to 3 hours of smoke containment

Eliminates the backer bar

Conserves energy, reduces insurance, and decreases potential health and safety issues

Safe & Sustainable Insulation

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