FeltWorks® Beams – VarAffix® Baffles

Assembly and Installation Instructions

1. GENERAL

1.1 Product Description

FeltWorks® Beams – VarAffix® Baffles are vertical acoustical felt panels designed for suspension from a Prelude® XL® 15/16" suspension system in groups, independently from aircraft cables, or independently attached to structure with 1/4–20 threaded rod. The panels are manufactured from 3/8" (9mm) polyester felt (PET) fibers with integral color throughout and finished edges and surfaces.

Panels are 3" wide rectangular beams available in varying lengths and depths. Refer to the product data page for panel dimensions. Custom-size panels can be ordered through ASQuote@armstrong.com.

The panels are engineered for use in seismic areas when installed in accordance with these instructions. Refer to Section 8 for detailed seismic installation requirements.

1.2 Storage and Handling

Store the panels in a dry interior location and keep them in the original carton prior to installation to avoid damage. Store cartons in a flat, horizontal position. Do not remove panels from the carton until the suspension system is installed. Take proper care when handling to avoid damage and soiling. Hold panels in the vertical orientation to avoid creasing. White cotton or latex gloves are recommended for handling. Two installers should handle 96" panels.

1.3 Site Conditions

FeltWorks® Beams – VarAffix® Baffles can be installed where the temperature is between 40°F (4°C) and 158°F (70°C). The panels cannot be used in exterior applications, where standing water is present, or where moisture will come in direct contact with them.

1.4 Fire Performance

FeltWorks® Beams – VarAffix® Baffles have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code. The panels may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers should consult a fire protection engineer, NFPA 13, and their local code official for guidance on proper installation techniques where fire detection or suppression systems are present.

1.5 Warranty

The FeltWorks® Beams – VarAffix® system has been tested based on the installation methods described in this document. The warranty will be voided if these instructions and guidelines are not followed.

1.6 HVAC Design and Operations and Temperature/Humidity Control

Proper air supply and return air design, maintenance of the HVAC filters, and a clean building interior are essential to minimize soiling. Before starting the HVAC system, make sure the supply air is properly filtered and the building interior is free of construction dust. The panels are for interior use only and cannot be used where standing water is present or where moisture will come in direct contact with the ceiling.

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1.7 Cleaning

Use a clean, dry, soft, white cloth to wipe off any dust or fingerprints. A vacuum can also be used to remove dirt from the panels. Vacuum cleaner brush attachments, such as those designed for cleaning upholstery or walls, do the best job. Clean in one direction only to prevent rubbing dust into the face of the panel. Avoid using Windex or other alcohol-based cleaners, because they can damage the material over time. If this does not clean the panel, use a damp, clean, soft, white cloth or sponge with mild detergent. Avoid using hot water, because it could deform the felt. Remove any remaining moisture with a dry cloth.

2. DESIGN AND INSTALLATION CONSIDERATIONS

2.1 Directionality

There is a natural fiber direction in the panels, like the graining found in natural wood products. Overall installation designs are non-directional. The beams install on a Prelude® XL® 15/16" suspension system running perpendicular to the main beams.

2.2 Sprinkler

Standard panels can hang 4" or 8" below the face of the suspension bar. Sprinkler heads may need to clear the bottom of the panels, depending on the openness of the layout. Consult the local building code official or fire protection engineer.

2.3 Plenum

The panels are installed below the suspension system and do not need to travel above the suspension system during installation.

NOTE: Light fixtures and air handling systems require more space and may determine the minimum plenum height for the installation.

2.4 Color

There are 15 standard color options, with color throughout and 8 standard printed wood looks. Premium and custom finishes can also be manufactured. Field painting will void the product warranty. Natural variations in color and grain are characteristic of felt products.

Panels are manufactured in dye lots. Panel color and texture may vary from order to order, so adequate attic stock should be ordered. Orders and materials from separate dye lots may have an unacceptable color variance. If orders must be placed at separate times, install material from separate orders in different areas of the project.

Contact TechLine customer support, Architectural Specialties, or an Armstrong representative for additional information.

2.5 Baffle Layout

FeltWorks® Beams – VarAffix® Baffles are available in a variety of lengths and depths with three different installation options. When installing with a Prelude® XL® 15/16" suspension system, panels will have a 1" gap between panel ends for the best visual result.

For the best visual, match the spacing of the beams to the height of the beams, regardless of the installation method used.

2.6 Lighting Integration

For installations that include FeltWorks® Beams LED VarAffix® lighting integration, refer to the supplemental FeltWorks® Beams LED VarAffix® document for additional installation details and requirements.

2.7 Accessibility

The panels allow downward accessibility to the plenum. They are vertically attached to a Prelude® suspension system, individually hung to structure via aircraft cables, or individually hung with 1/4–20 threaded rods. When installed on the suspension system, aircraft cable, or threaded rod, panels can be removed for access into the plenum. Place the panels on a clean surface once removed.

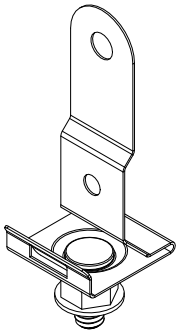
2.8 Product Classification

FeltWorks® Beams – VarAffix® Baffles are classified as an "architectural element" (no bracing is needed) when installed individually using aircraft cables. This means the system:

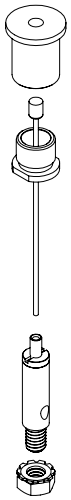
- Must be able to swing 360°
- Must not be able to come in contact with essential components in the ceiling
- Since aircraft cables are used, the maximum swing that can be expected is 18"

3. ACCESSORIES

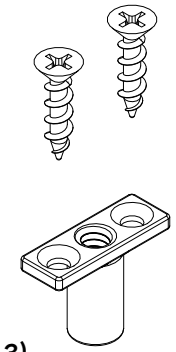
- Item 6701GAC002, Threaded Grid Clip ***(Fig 1)***
- Item 5450, Hanging Kit ***(Fig 2)***
- Item 6371MF, Field-Cut Connector Kit ***(Fig 3)***
- Item 625530, Extended Hanging Cables (30' aircraft cable)
- Item 7121, Angled Hanging Adaptor (60° maximum angle) ***(Fig 4)***



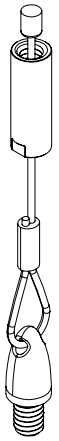
(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)

4. SUSPENSION SYSTEM

The requirements listed here represent the minimum acceptable installation recommendations from the manufacturer and may be subject to additional requirements established by the local authority having jurisdiction. The suspension system chosen must be fastened to the structure per code in the installed location.

- All installations should follow ASTM C636
- All references to suspension component duty ratings are per ASTM C636
- The suspension system chosen must be fastened to the structure per code in your area

NOTE: In addition to the instructions outlined in this section, refer to Section 8 for additional seismic installation layout requirements.

4.1 Suspension Options

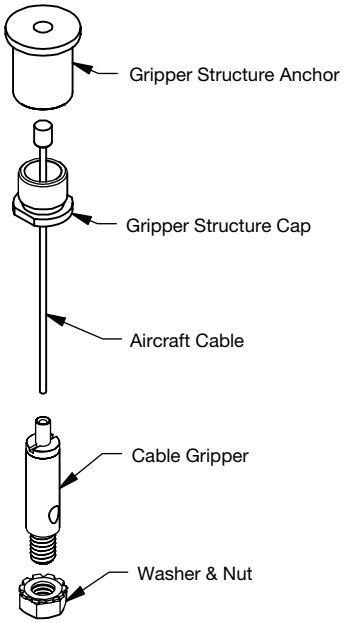
There are three different suspension options for use with FeltWorks® Beams – VarAffix® Baffles:

- Independently suspended from structure with aircraft cable (Item 5450 hanging kit)
- Independently suspended from structure with 1/4–20 threaded rod
- On a Prelude® XL® 15/16" suspension system in a standard 2' × 4' or 4' × 4' grid layout with a grid clip (Item 6701GAC002)

4.2 Independent Suspension From Structure

4.2.1 With Aircraft Cable

Panels can be independently suspended using aircraft cables and quick-release bottom end cable adjusters ***(Fig 5)***.



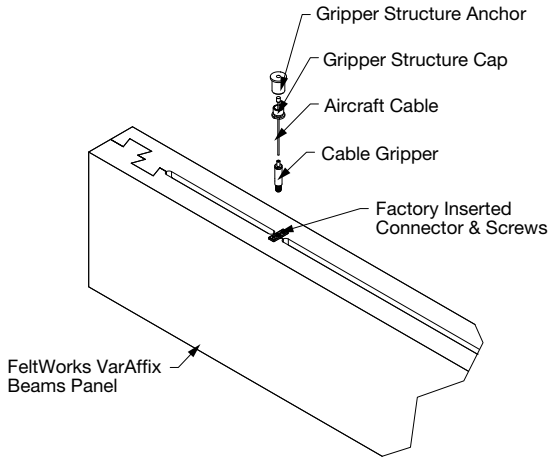
(Fig 5)

The Deck Hanging Kit (Item 5450) includes:

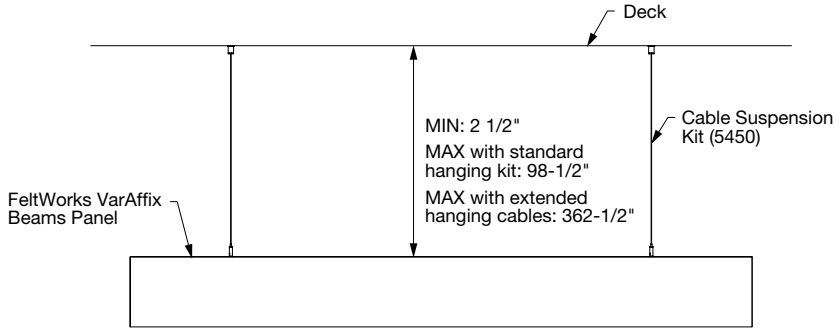
- (2) Gripper Structure Anchors
- (2) Gripper Structure Caps
- (2) 8' aircraft cables
- (2) Bottom End Cable Adjusters
- (2) nuts with washers. The nuts and washers in the hanging kit are not needed for installation and can be discarded

To install:

1. Determine the location to hang the panels
2. To fasten the cable connectors to the structure, use fasteners (by others) that are compatible with the structure. This part of the installation uses the Gripper Structure Anchor and Cap from the Deck Hanging Kit (Item 5450)
3. Attach the cables at two hanging points on the beams. A minimum of two hanging points is required
4. Fasten the cable connectors into the threaded holes at the specific attachment points on the panels and configure the cable connectors ***(Figs 6 and 7)***. The height of a panel can be adjusted at the bottom end cable adjuster. When a final height is determined and installation is complete, cut off the excess cable wire from the side of the adjuster, leaving a 1" tail



(Fig 6)

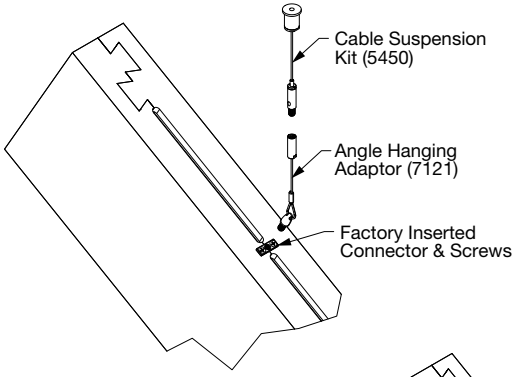


(Fig 7)

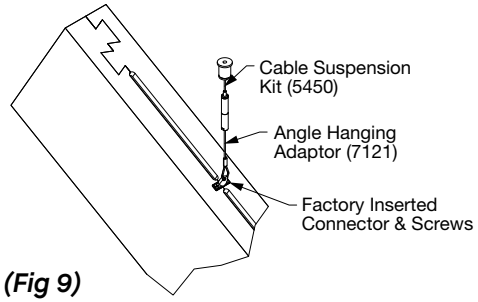
5. To release the cable and lower the panel, take all weight off the gripper, push the release mechanism, and slide the cable out as needed

NOTE: An 8' aircraft cable is included in the standard Deck Hanging Kit. If additional cable length is needed for high ceiling applications, order the Extended Hanging Cables Kit (Item 625530), which has (4) 30' aircraft cables per kit.

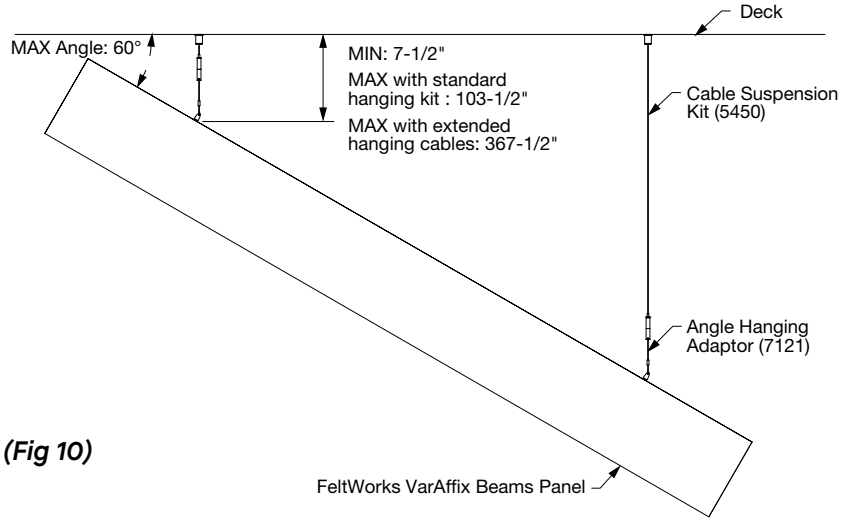
For angled hanging applications up to 60°, use the Angled Hanging Kit (Item 7121), which has (2) angled hanging cables per kit. To install, insert the angled hanging cable between the bottom end cable adjuster of the deck hanging kit and the threaded hole on the panel ***(Figs 8 - 10)***.



(Fig 8)



(Fig 9)



(Fig 10)

4.2.2 With 1/4–20 Threaded Rod (by others)

Panels can be independently suspended via 1/4–20 threaded rod connections to the structure. The following requirements apply when planning for this installation option:

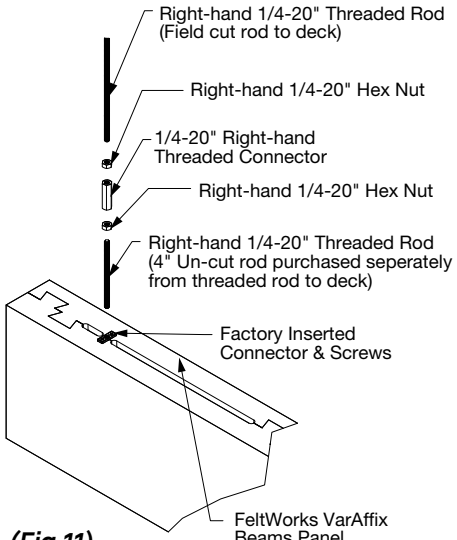
- 1/4–20 right-handed (RH) threaded rod will insert into the threaded hole in the beams
- The rod will insert a minimum of about 3/4" into the beams
- The threaded rod connection will attach at two hanging points on the beams
- A minimum of two hanging points is required

Threaded hanger rods must be installed plumb. If plumb threaded rod drops are not possible, a trapeze or sub-framing may be required. This sub-framing or trapeze framing must be engineered to support the designed loads. Threaded rod hangers should install into the deck per the recommendations from the deck anchor manufacturer.

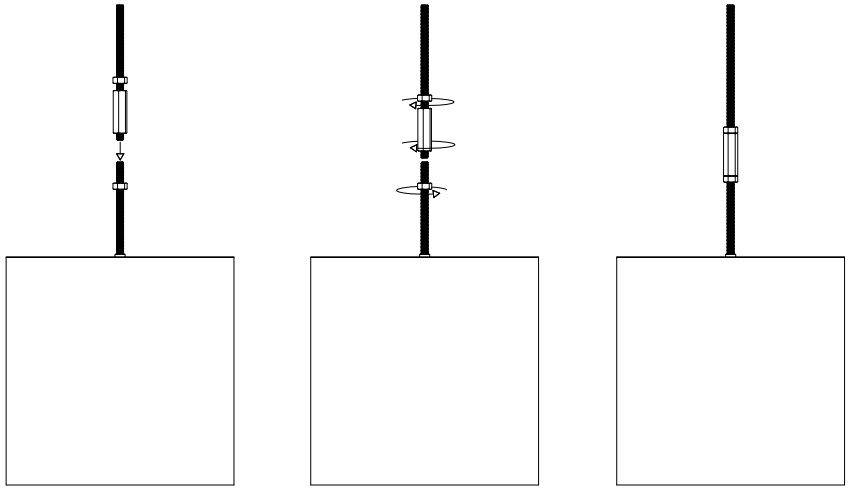
The method for installing threaded rod can vary. Below is a recommendation for fastening the threaded rod in the beams to the threaded rod hanging from the deck. It is the responsibility of the installer to evaluate and choose the threaded rod installation method that will work best for the installation.

Hardware *(Figs 11 & 12)*:

- 1/4–20 right-hand (RH) threaded rod
  - 1 × 1/4–20 RH threaded rod that attaches to the beams (length determined by the installer)
  - 1 × 1/4–20 RH threaded rod that attaches to the deck (length determined by the installer based on plenum depth)
- Fully threaded RH coupling nut for 1/4–20 thread
- 2 × RH nut for 1/4–20 thread



(Fig 11)



(Fig 12)

4.3 Group Installation With Standard Prelude® 15/16" Suspension System

FeltWorks® Beams – VarAffix® Baffles can be installed on a Prelude® XL® 15/16" suspension system or 360° Painted Grid using a Threaded Grid Clip (Item 6701GAC002), which snaps onto the grid flange.

4.3.1 System Components

The panels can be installed on Intermediate-Duty or Heavy-Duty Prelude® XL® 15/16" suspension systems. For Seismic Design Category C, D, E, and F installations, refer to Section 8 for additional requirements.

Cross tees must have XL® end details and be at least Intermediate-Duty Equivalent (12 lbs/LF).

New installations that will include mineral fiber or fiberglass acoustical panels in addition to FeltWorks® Beams – VarAffix® Baffles may require Heavy-Duty main beams and Heavy-Duty Equivalent (HDE) cross tees. This is based on the total system weight and the grid layout (for example, 2' × 4' vs. 4' × 4').

For alternative layouts, calculate the carrying capacity requirements based on the total system weight to determine if a Heavy-Duty grid system is needed. If the total system weight exceeds 3 lbs/SF, a Heavy-Duty grid system is needed.

For a new or existing grid, panels installed with or without acoustical panels in place must meet the following conditions:

- The grid must be installed per ASTM C636
- The grid must be 15/16" Prelude®
- The grid must meet the proper load classification to carry the FeltWorks® Beams – VarAffix® Baffles and any mineral fiber or fiberglass acoustical panels (if applicable)
- Specific instructions regarding the placement of the Threaded Grid Clip (Item 6701GAC002) along the panels are noted in Section 5.1
- Using the Deck Hanging Kit (Item 5450) is also an available installation option. Follow the instructions in Section 4.2.1 to attach the deck hanging kit to the grid

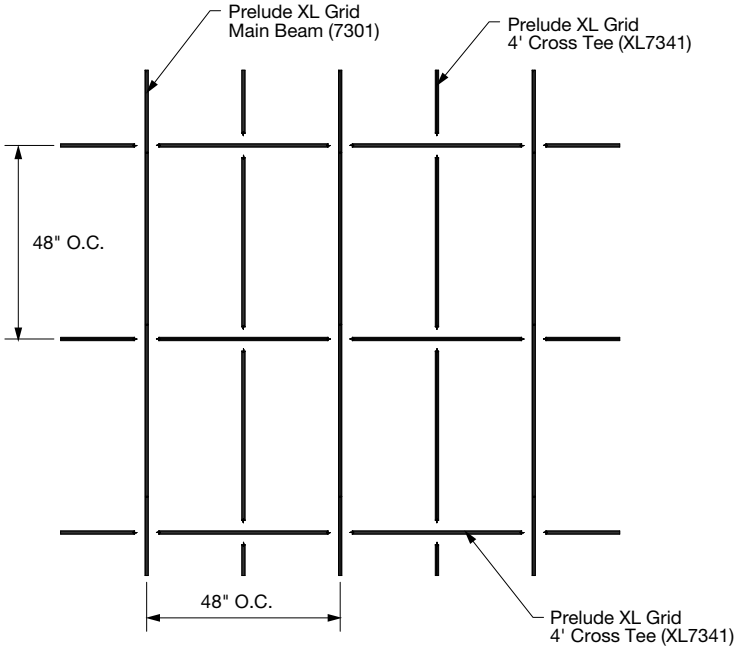
4.3.2 Suspension Rules for All Layouts

- Main beams must be installed within 24" of the perimeters, and then at 48" O.C.
- Hanger wires must be installed within 24" of the perimeters and no more than 48" O.C.
- The Rigid Attachment Clip (6459BL, available in black) can be substituted for hanger wires in up-tight-to-deck installations and must follow the same rules for spacing

4.3.3 2' × 4' Layout *(Fig 13)*

Main beams (7300 or 7301) installed at 48" O.C. with 4' cross tees (XL7341) perpendicular to the main beams at 24" O.C.

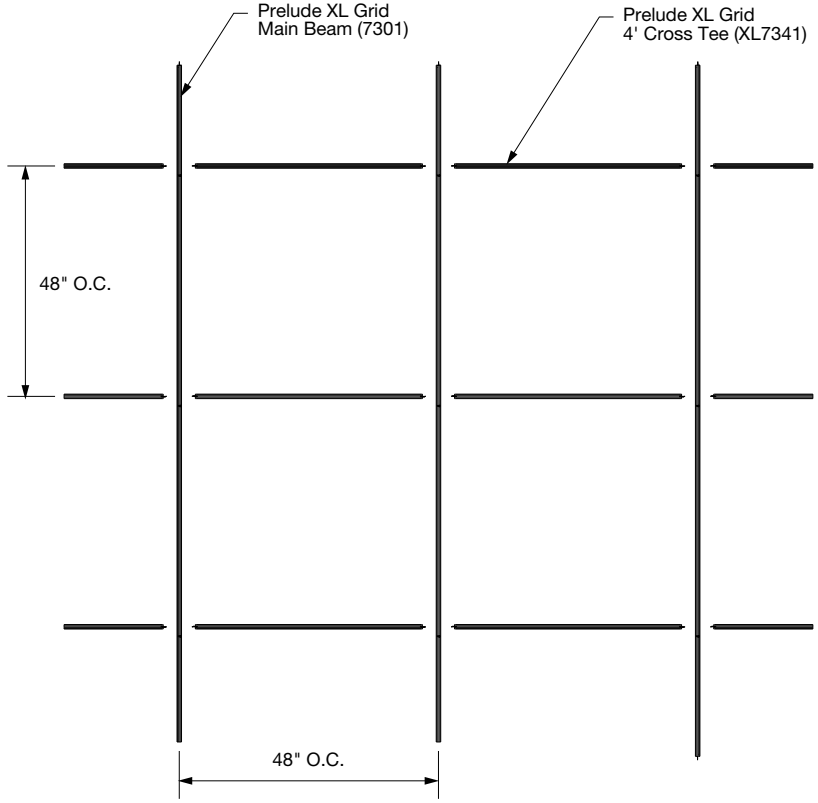
The 4' cross tees must match the main beams in load-carrying capacity. The exception is 360° Painted Grid, which has Intermediate-Duty Equivalent 4' cross tees (XL734036) and will not be installed with additional acoustical panels.



(Fig 13)

4.3.4 4' × 4' Layout *(Fig 14)*

Main beams (7300 or 7301) installed at 48" O.C. with 4' cross tees (XL7341) perpendicular to the main beams at 48" O.C. The 4' cross tees must match the main beams in load-carrying capacity. The exception is 360° Painted Grid, which has Intermediate-Duty Equivalent 4' cross tees (XL734036) and will not be installed with additional acoustical panels.



(Fig 14)

4.3.5 Wall-to-Wall Perimeter Options

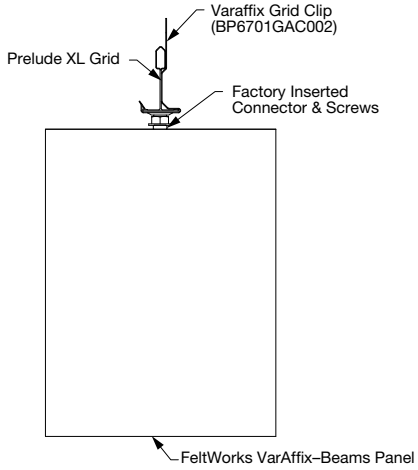
Although angle molding (7800) is usually the preferred perimeter option, there are no special requirements for wall molding type or installation method.

5. FELTWORKS® BEAMS – VARAFFIX® PANEL ATTACHMENT TO SUSPENSION SYSTEM

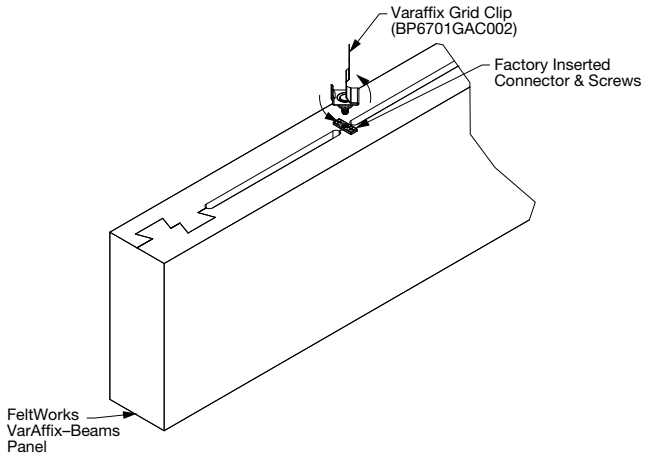
5.1 Grid Clip Attachment

Panels are attached to a 15/16" Prelude® or 360° Painted Grid using the Threaded Grid Clip (Item 6701GAC002) (Fig 15). Each panel includes two (2) attachment points.

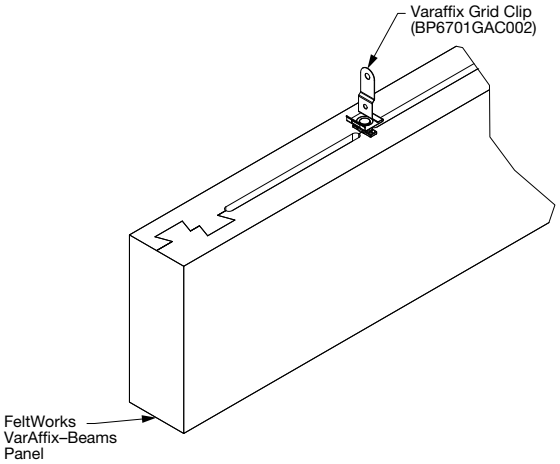
To install, hand-thread the 1/4–20 threaded stud of the grid clip into the threaded hole on the panel. Once installed, ensure that the portion of the clip engaging the grid is oriented perpendicular to the length of the beams. Once properly positioned, tighten the locking nut to secure the clip in place. ***(Figs 16 & 17)***.



(Fig 15)

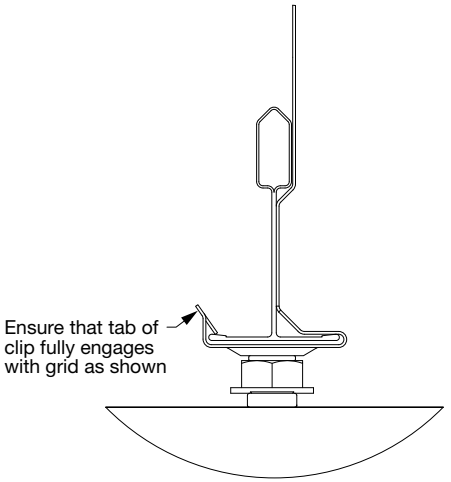


(Fig 16) *Installing Grid Clip into place*
Scale 1 : 3



(Fig 17) *Grid Clip Installed*
Scale 1 : 3

Make sure the tab found in the portion of the clip that engages the flange snaps securely into place on the grid flange, as shown ***(Fig 18)***.

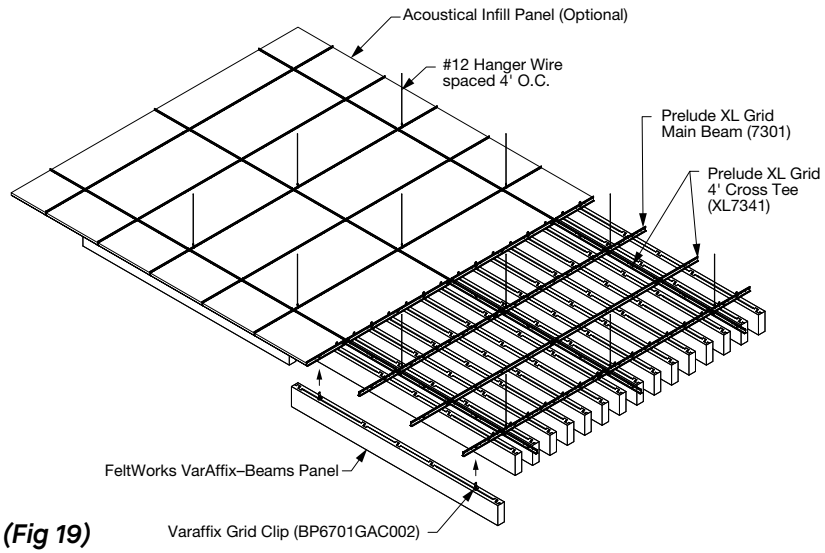


(Fig 18)

A minimum of two threaded grid clips is required on each beam, as defined by the beam connection points.

NOTE: Seismic installations have additional requirements for installing threaded grid clips into the grid. See Section 8.4 for further information.

5.2 Installing Panels on the Grid With Acoustical Ceiling Panels Installed *(Fig 19)*



(Fig 19)

FeltWorks® Beams – VarAffix® Baffles can be installed in conjunction with square lay-in and tegular panels only.

1. Align the panels and the Threaded Grid Clip clip with the grid, and then snap it onto the flange of the grid. Make sure tab of the clip snap securely into place over the grid flange
2. Press down on the acoustical panel to ensure it is level and seated flush with the grid flange. For panels with an acoustical scrim, a slit approximately 1" long will need to be cut in the area resting on the clip to allow the clip to penetrate the panel face properly.

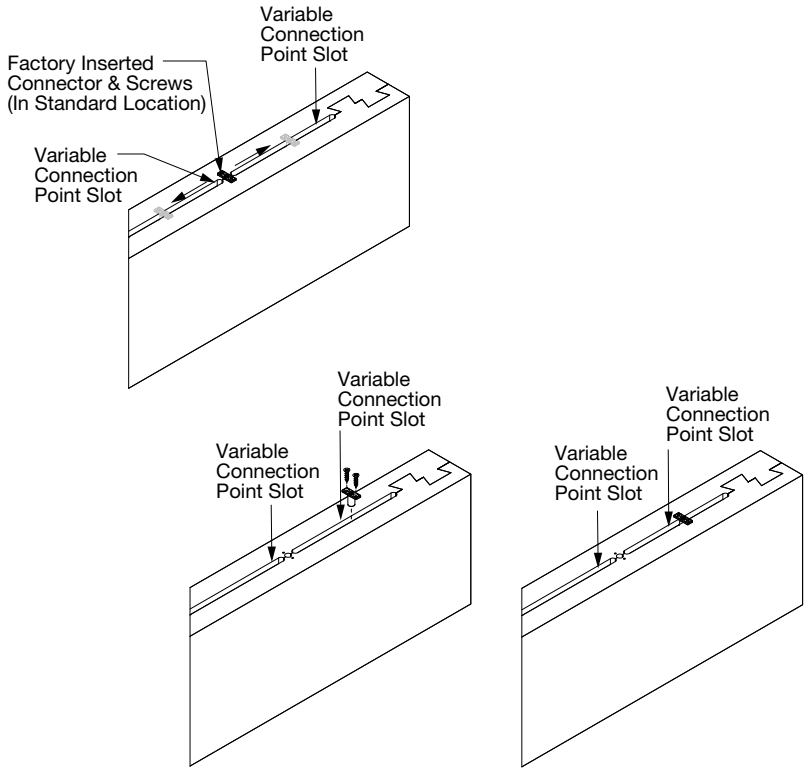
   NOTE: The clip will pierce the face of the acoustical panel. Facial marring is hidden by the clip and the panels when installed

5.3 Cutting Beams Panels

FeltWorks® Beams – VarAffix® Baffles should never be cut.

5.4 Field Adjustment of Beams Hanging Locations

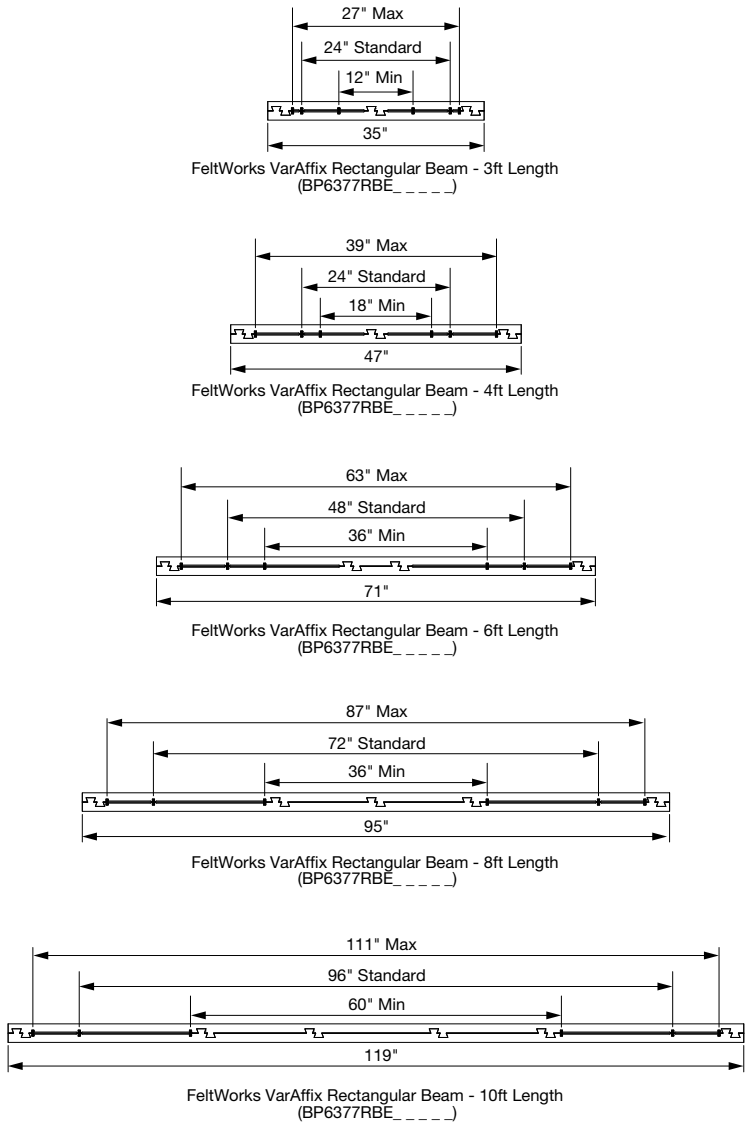
When project conditions require hanging locations different from the factory-designated hanging locations, threaded hanging connectors may be repositioned in the field. The following steps describe how to identify a new hanging position, transfer the threaded connector, and secure it at the new location ***(Fig 20)***. Item 6371MF can also be ordered when additional threaded connectors are needed for field modifications.



(Fig 20)

- **Step 1:** Determine and mark the desired hanging location along the top of the beams, using the slotted attachment section provided
- **Step 2:** Remove the factory-installed threaded connector by unscrewing it from its current location
- **Step 3:** Once the new hanging location has been confirmed, reinstall and tighten the threaded connector in the desired position. No special tools are required

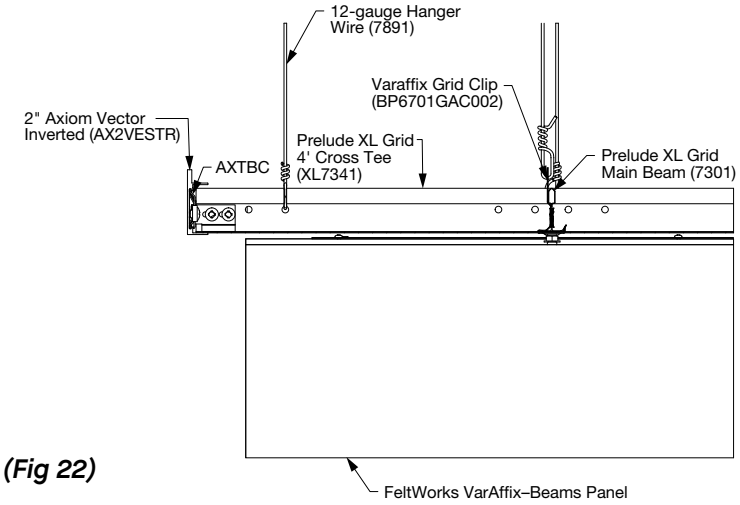
IMPORTANT NOTE: Before repositioning the threaded connectors, consult the Beams Length Guide to determine the minimum and maximum dimensions for the hanging point location from the beams end and for the spacing between hanging threaded connectors ***(Fig 21)***.



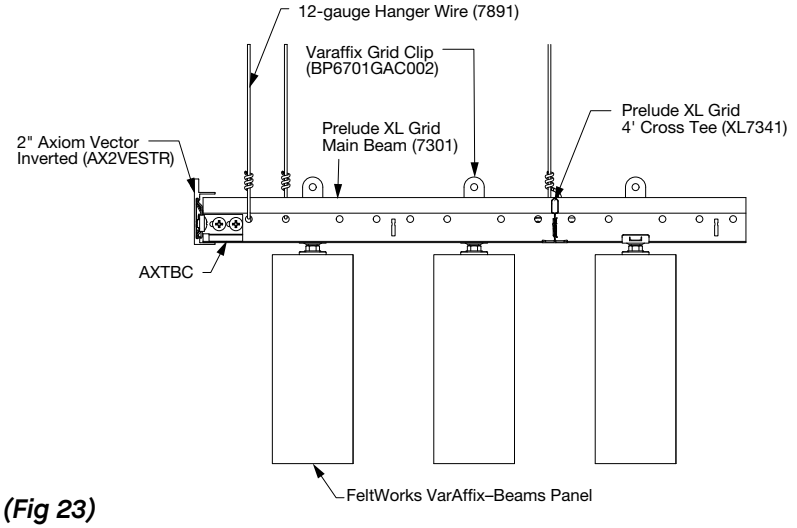
(Fig 21)

6. FLOATING PERIMETERS/DISCONTINUOUS SYSTEMS

For discontinuous grid installations, Axiom® trim can be used to provide a professional, finished aesthetic around the grid. It is recommended that Axiom® trim interfaces at the grid level, because the panels hang at various elevations below the face of the grid system ***(Figs 22 & 23)***.



(Fig 22)



(Fig 23)

7. SPECIALTY INSTALLATION CONSIDERATIONS

7.1 Sloped Installation

The following rules apply to sloped installations and are based on the installation method:

- **Independent Suspension With Aircraft Cable Kit:** Panels can be angled up to 60° using the Angled Hanging Kit (Item 7121). This has been tested and approved in all Seismic Design Categories
- **Attached to Prelude® Grid:** Panels should not be installed on a sloped grid. This applies to all Seismic Design Categories

7.2 Product Classification

When installed using aircraft cables, the panels are classified as an "architectural element" (no bracing is needed). This means the system:

- Must be able to swing 360°
- Must not be able to come in contact with essential components in the ceiling
- Since aircraft cables are used, the maximum swing that can be expected is 18"

7.3 MEP Integration

Mechanical fixtures such as lights, speakers, and sprinklers can be installed at the suspension system height, flush with the bottom or below the bottom of the panels (refer to Section 2.2 for sprinkler considerations). Fixture weight or housing must not be supported by the panels.

7.4 FeltWorks® Beams LED Integration

For installations that include FeltWorks® Beams LED VarAffix® lighting integration, refer to the supplemental FeltWorks® Beams LED VarAffix® document for additional installation details and requirements.

7.5 Exterior Installations

FeltWorks® Beams – VarAffix® Baffles cannot be installed in exterior applications.

8. SEISMIC INSTALLATION

For more details on seismic installations, please see the brochure: Seismic Design: What You Need to Know.

https://www.armstrong.com/content/dam/armstrongceilings/commercial/northamerica/ brochures/seismic-design-what-you-need-to-know-brochure.pdf

8.1 Aircraft\ Cable Installation

The International Building Code states the ceiling system connection to the structure must allow the ceiling to move 360° in the horizontal plane. Panels suspended individually with aircraft cable must be spaced a minimum of 12" apart, or 12" from surrounding surfaces, to avoid contact during a seismic event.

8.2 Grid Suspension System

- All seismic installations of FeltWorks® Beams – VarAffix® Baffles must comply with Seismic Categories D, E, and F, regardless of the total system weight
- Prelude® Heavy-Duty grid is required per ASTM E580, and the cross tees may have to match the mains in load-carrying capacity based on the grid layouts, as defined in Section 4.3
- Panels attached to the grid have been engineered for application in all seismic areas 8.3 Seismic Rx® Category D, E, and F Requirements (All Seismic Installations)
- Panels must be spaced a minimum of 6" O.C. apart, and 6" from surrounding surfaces, to avoid contact during a seismic event
- Ceiling installation should conform to the basic minimums established in ASTM C636
- Minimum 7/8" wall molding. The suspension system must be attached on two adjacent walls
- Opposite walls require BERC2 with 3/4" clearance
- BERC2 maintains main beams and cross tee spacing; no other components are required
- Heavy-Duty systems as identified in ICC-ESR-1308
- Safety wires are required on light fixtures
- Perimeter support wires within 8"
- Ceiling areas over 1,000 SF must have horizontal restraint wire or rigid bracing
- Ceiling areas over 2,500 SF must have seismic separation joints or full-height partitions

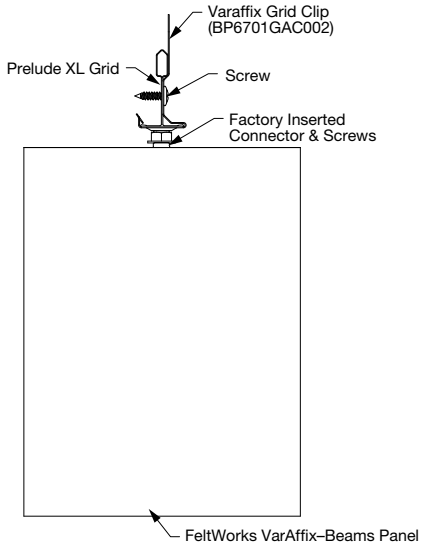
- Ceilings without rigid bracing must have 2" oversized trim rings for sprinklers and other penetrations
- Changes in the ceiling plane must have positive bracing
- Cable trays and electrical conduits must be independently supported and braced
- Suspended ceilings will be subject to special inspection
- Suspension layouts are the same as described in Section 4.3: Suspension System
- Connection to the wall: See BPCS-4141, Seismic Design: What You Need to Know, Code Requirements Seismic Rx® Tested Solutions, Seismic Rx® Approaches to Category C and D, E, and F Installation
- Special bracing required: See BPCS-4141, Seismic Design: What You Need to Know, Code Requirements Seismic Rx® Tested Solutions, Bracing and Restraint for Seismic Installations
- Seismic separation joints: See BPCS-4141, Seismic Design: What You Need to Know, Code Requirements Seismic Rx® Tested Solutions, Seismic Separation Joints

Seismic reaction information is based on full-scale testing and computer modeling conducted at the Structural Engineering Earthquake Simulation Lab located at the State University of New York at Buffalo.

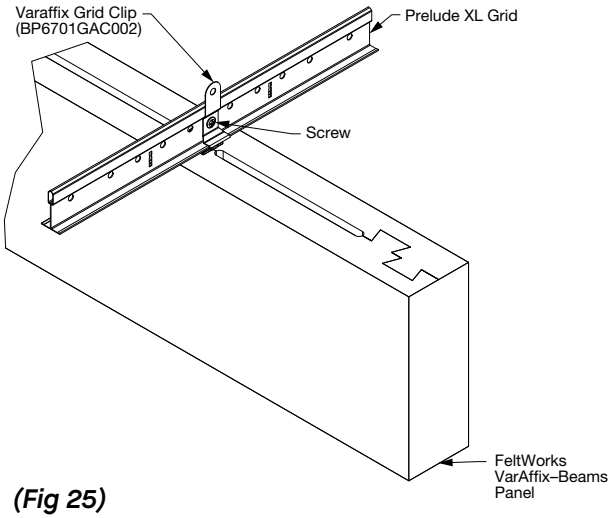
8.4 FeltWorks® Beams – VarAffix® Panel Attachment

The minimum spacing between panels for Seismic Design Categories D, E, and F is 6" O.C.

After installing the panels (or a run of vertical panels) to the suspension system, ensure correct positioning and add one (1) screw through the pilot hole on the clip and through the web of the grid ***(Figs 24 & 25)***. This will secure the clip to the suspension system.



(Fig 24)



(Fig 25)

FELTWORKS® BLADES – VARAFFIX™ PANEL ITEMS					
Item No.	**Description – Sizes are Nominal not Exact**	**Ordered Separately/ Included with**	**Required for Install**	**Pcs/ Ctn**	**Lbs Per LF**
6377RBE01_ _ _	4" × 3' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.62
6377RBE02_ _ _	4" × 4' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.62
6377RBE03_ _ _	4" × 6' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.62
6377RBE04_ _ _	4" × 8' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.62
6377RBE05_ _ _	4" × 10' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.62
6377RBE06_ _ _	8" × 3' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.92
6377RBE07_ _ _	8" × 4' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.92
6377RBE08_ _ _	8" × 6' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.92
6377RBE09_ _ _	8" × 8' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.92
6377RBE10_ _ _	8" × 10' FeltWorks Varaffix Beams	Ordered Separately	Based on Design	4	0.92
FELTWORKS BEAMS VARAFFIX PANEL SUSPENSION & ACCESSORIES					
For Group Suspension Intermediate Duty					
7300	Prelude® XL® 12' ID Main Beam	Ordered Separately	Yes	20	
XL7340	Prelude XL 4' Cross Tee	Ordered Separately	Yes	60	
7891	12-gauge Hanger Wire	Ordered Separately	Yes	Bulk	
7800	Angle Wall Molding	Ordered Separately	Based on Design	360	
For Group Suspension Heavy Duty					
7301	Prelude® XL® 12' HD Main Beam	Ordered Seperately	Yes	20	
XL7341	Prelude XL 4' Cross Tee	Ordered Seperately	Yes	60	
7891	12-gauge Hanger Wire	Ordered Seperately	Yes	Bulk	
7800	Angle Wall Molding	Ordered Seperately	Based on Design	360	
Floating Perimeter Trim					
AX_STR_ _ _	Axiom Classic Straight Trim	Ordered Seperately	Based on Design	10 Lft	
7239	Adjustable Trim Clip (ATC)	Ordered Seperately	Based on Design	1	
For Individual Suspension					
5450	Deck Hanging Kit	Ordered Seperately	Yes	2	
625530	Extended Hanging Cables (30' Aircraft Cable)	Ordered Seperately	Based on Design	4	
7121	Angled Hanging Kit (60° maximum angle) - Extends from the end of Deck Hanging Kit (5450)	Ordered Seperately	Based on Design	2	
Other Accessories					
6701GAC002_ _	Beams – VarAffix® Threaded Grid Clip	Ordered Seperately	Yes - For Grid Installations	40	
6371MF	Field-Cut Connector Kit	Ordered Seperately	Based on Design	10	
BERC2	2" Beam End Retaining Clip	Ordered Seperately	Based on Design	200	
6459BL	The Rigid Attachment Clip	Ordered Seperately	Based on Design	2	

MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 877 276-7876.
For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 877 276-7876.

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