FeltWorks® Blades - VarAffix™ Panels

Assembly and Installation Instructions

1. GENERAL

1.1 Product Description

FeltWorks® Blades – VarAffix™ panels are vertical, acoustical felt panels designed to be suspended from a Prelude® XL® 15/16" suspension system in groups, independently from cables/wires, or independently attached to structure with 1/4" – 20 threaded rod. FeltWorks Blades – VarAffix panels are made from polyester felt (PET) fibers, with color throughout, and finished on all edges and surfaces.

FeltWorks Blades – VarAffix panels are available in Rectangular Blades in varying lengths and depths. See the product data page for the dimensions of each panel. For alternative colors and designs tailored to your projects, visit Turf® at turf.design

FeltWorks Blades – VarAffix panels are engineered for use in seismic areas when installed in accordance with these installation instructions. Reference Section 9 for more detailed instructions on seismic installations.

1.2 Storage and Handling

FeltWorks Blades – VarAffix panels should be stored in a dry interior location and must remain in the original carton prior to installation to avoid damage. The carton(s) must be stored in a flat, horizontal position. The vertical panels should not be removed from the carton until the suspension system is installed. Proper care should be taken when handling Blades panels to avoid damage and soiling. It is recommended to hold the panels in the vertical orientation to avoid creasing the blade. White cotton or latex gloves are recommended for handling. It is recommended that two installers handle 96" FeltWorks Blades – VarAffix panels.

1.3 Site Conditions

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

1.4 Fire Performance

FeltWorks Blades – VarAffix panels achieve Flame Spread Index 25 or less. Smoke Developed Index 450 or less. Class A per ASTM E84. FeltWorks Blades – VarAffix 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 are advised to consult a fire protection engineer, NFPA 13, and their local code official for guidance on the proper installation techniques where fire detection or suppression systems are present.

1.5 Warranty

The FeltWorks Blades – VarAffix panel systems have been tested based on the installation methods described in this document. Warranty will be voided if you do not follow these instructions and guidelines.

1.6 HVAC Design and Operations and Temperature/Humidity Control

Proper air supply and return air design, maintenance of the HVAC filters, and building interior space 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. FeltWorks Blades – VarAffix 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.



1.7 Plenum

FeltWorks® Blades – VarAffix™ panels are installed below the suspension system and do not need to travel above the suspension system during installation. FeltWorks Blades – VarAffix panels allow downward accessibility to the plenum, they can be unattached and reattached to the suspension system or hanging cables.

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

1.8 Maintenance and Cleaning

1.8.1 Dust & Debris Removal

A vacuum or air compressor should be used as needed to remove any dust or debris that may have accumulated. Nozzle attachment tools for vacuums are especially useful when cleaning between blades.

1.8.2 Stain Removal

In instances where a wet spill occurs, blot stain immediately with a clean, dry cloth. Do not rub paper products such as facial tissue on the material, as this could result in paper particulate being rubbed into the material. In most cases, a simple solvent of soap and water can be used to remove stains. For more severe instances, household bleach is effective at removing stains. Due to the dyeing process of the fibers, PET felt is able to retain its colorfastness when cleaned with bleach.

Material should air-dry – no heat should be used to speed the drying process.

1.8.3 Cleaning

If surfaces are dirty, they should be cleaned using a detergent or soap and water prior to disinfection.

1.8.4 Disinfecting

For disinfection, most common EPA-registered household disinfectants should be effective.

- A list of products that are EPA-approved for use against the virus that causes COVID-19 is available at https://www.epa.gov/ coronavirus/about-list-n-disinfectants-coronavirus-covid-19-0
- Additionally, diluted household bleach solutions (at least 1,000 ppm sodium hypochlorite) can be sprayed on
- Prepare a bleach solution by mixing 5 tablespoons (one-third cup) bleach per gallon of water
- · Bleach solution will be effective for disinfection up to 24 hours

2. DESIGN AND INSTALLATION CONSIDERATIONS

2.1 Directionality

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

2.2 Sprinklers

Standard FeltWorks Blades – VarAffix panels can hang 6"-12" 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. See the local building code official or fire protection engineer.

2.3 Color

There are 12 standard color options for the finished FeltWorks Blades – VarAffix panels, with color throughout the blades. Field painting will void the product warranty. Natural variations in color and grain are characteristic of felt products.

FeltWorks Blades – VarAffix panels are manufactured in dye lots. Panel color and texture may vary from order to order; adequate attic stock should be ordered. Otherwise, orders and materials from separate dye lots may have an unacceptable color variance. If orders must be placed at separate times, it is recommended to install the material from the separate orders in different areas of the project.

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

2.4 Blades Panel Layout

FeltWorks Blades – VarAffix panels are available in a variety of lengths and depths with three different installation options. When installing with Prelude XL 15/16" suspension system panels will have a 1" gap between the ends of panels for best visual. Blades will also be limited to a minimum blade spacing of 2-3/16" due to the minimum spacing between the Threaded Grid Clip (Item 6701).

For the best visual, it's recommended to match the spacing of the blade to the height of the blade regardless of the installation method used. Refer to Section 4.2 for individually hung to structure with aircraft cables, Section 4.3 for individually hung to structure with 1/4" – 20 threaded rod, or Section 4.4 for group installation with Prelude® 15/16" suspension system.

2.5 Accessibility

FeltWorks® Blades - VarAffix™ panels allow downward accessibility to the plenum. FeltWorks Blades - VarAffix panels are vertically attached to Prelude® suspension system, individually hung to structure via aircraft cables or 1/4" - 20 threaded rods. When blades are installed on the suspension system, aircraft cable, or threaded rod, the blades can be removed for access into the plenum. Make sure to place the blades on a clean surface once they are removed.

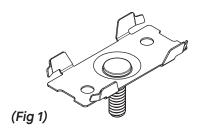
2.6 Product Classification

FeltWorks Blades - VarAffix panels 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

3.1 Item 6701_ _ - Threaded Grid Clip for VarAffix (Fig 1)



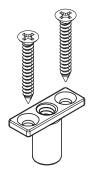


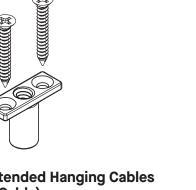
3.2 Item 5450 - Cable Suspension Kit (Fig 2)



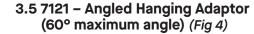
(Fig 2)

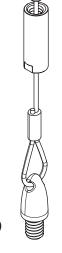
3.3 Item 6371MF - Field-Cut Connector Kit (Fig 3) for FeltWorks Blades - VarAffix panels











(Fig 4)

4. SUSPENSION SYSTEM

(Fig 3)

The requirements listed here represent the manufacturer's minimum acceptable installation recommendations 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

4.1 Suspension Options

There are 3 different suspension options for use with FeltWorks Blades - VarAffix panels. These methods are:

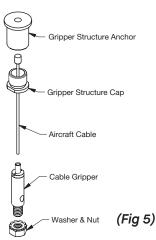
- Independently suspended from structure with aircraft cable (Item 5450 Cable Suspension Kit)
- Independently suspended from structure with 1/4"-20 threaded rod (by others)
- On Prelude® XL® 15/16" suspension system in a standard 2' × 4' grid layout with Threaded Grid Clip (Item 6701)

4.2 Independent Suspension with Aircraft Cable

FeltWorks® Blades – VarAffix™ panels can be independently suspended using aircraft cables and quick-release bottom end cable adjusters *(Fig 5)*.

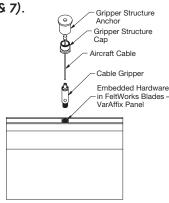
Deck Hanging Kit (Item 5450) includes:

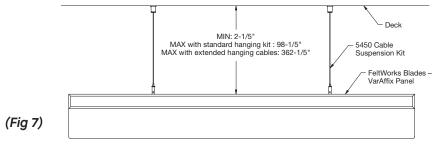
- (2) Gripper Structure Anchors
- (2) Gripper Structure Caps
- (2) 8' aircraft cables
- (2) Bottom End Cable Gripper
- (2) Nuts with washers nuts and washers in the hanging kit are not needed for installation and can be discarded



NOTE: For installation in seismic zones, refer to Section 9 for additional installation requirements. For installations requiring blades to be field cut, refer to Section 7.

- Determine the location to hang the FeltWorks Blades VarAffix panels
- To fasten the cable connectors to the structure, use fasteners by others that are compatible with the structure. This part of the installation will utilize the Gripper Structure Anchor and Cap from the Deck Hanging Kit (Item 5450).
- Cables must attach at each embedded threaded connectors along the top, which are spaced 24" O.C. Refer to the last page for panel drawing detailing the threaded connectors per each panel length.
- **1.** Fasten the cable connectors into the threaded holes at the specified attachment points on the panel and configure them as shown (*Figs* 6 & 7).



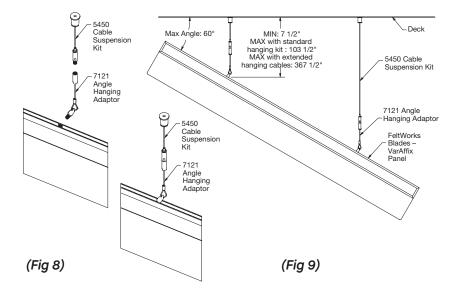


The washer and nut are not needed for installation and can be discarded. The height of a blade panel can be adjusted at the bottom end of the cable gripper. Once the final height is determined and installation is complete, cut off the excess cable wire from the side of the cable gripper, leaving a 1" tail.

2. To release the cable and lower the FeltWorks Blades – VarAffix panel, take all weight off the gripper, push the release mechanism, and simply 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 Adaptor (Item 7121), which has (2) angled hanging cables per kit. To install, insert the angled hanging cable between the bottom end cable gripper of the deck hanging kit and the threaded hole on the blade panel (*Figs* 8 & 9).



4.3 Independent Suspension with 1/4"-20 Threated Rod

FeltWorks® Blades – VarAffix™ panels can be independently suspended via 1/4"-20 threaded rod (by others) connections to the structure.

4.3.1 Installation Consideration:

Ensure threaded hanger rods are installed plumb. If plumb drops are not possible, a trapeze or sub-framing may be required. This must be engineered to support the designed loads. Install 1/4"-20 threaded rod hangers from the deck according to the deck anchor manufacture's recommendations.

When cutting the threaded rod from deck to achieve the desired finished ceiling height, keep the following in mind:

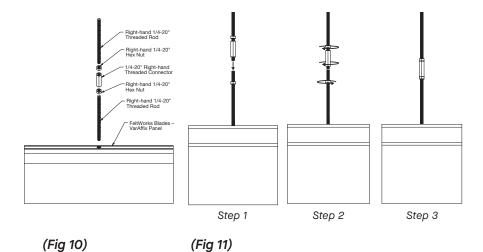
- The height of the Feltworks Blades VarAffix panels
- The 1/4"-20 right-handed (RH) threaded rod will insert about 3/4" deep into the threaded hole on the blade. The length of the RH threaded rod will be determined by the installer.

4.3.2 Fastening Options

The following are two recommended options for fastening the RH threaded rod that is inserted into the blade to the threaded rod hanging from the deck. The installer must evaluate and choose the best method for their installation.

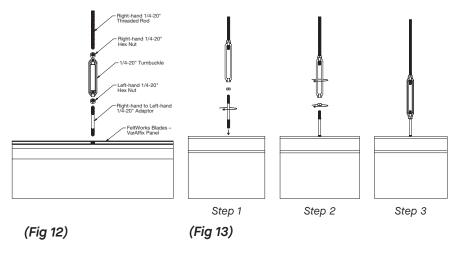
Using Coupling Nut (Figs 10 & 11):

- · 1/4"-20 RH threaded Rod
- Fully Threaded RH Coupling Nut for 1/4"-20 thread
- RH hex nuts for 1/4"-20 thread



Using a Turnbuckle (Figs 12 & 13):

- 1/4"-20 Left-Hand to Right-Hand threaded adapter.
- Turnbuckle for 1/4"-20 thread
- LH hex nut for 1/4"-20 thread
- RH hex nut for 1/4"-20 thread



4.3.3 Blades Hanging Requirements with Threaded Rod

- Blades lengths 8' and under require a minimum of two hanging points
- · Blades lengths 10' require a minimum of three hanging points
- There must be a threaded rod connection within 12" of the end of each blade
- To ensure a secure connection, at least 3/4" of thread must be inserted into the turnbuckle/coupling nut, and hex nuts are required

NOTE: For Installations requiring field cutting, refer to Section 7 for additional details.

PRELUDE® GRID INSTALLATION

4.4 Group Installation with Standard Prelude® XL® 15/16" Suspension System

FeltWorks Blades – VarAffix panels can be installed on Prelude XL 15/16" suspension systems or 360° Painted Grid using Threaded Grid Clip (Item 6701) which snap onto the flange of the grid.

4.4.1 System Components

FeltWorks® Blades – VarAffix™ 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 9. 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 Blades – VarAffix panels 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 (e.g. $2' \times 4'$ vs. $4' \times 4'$).

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 New or Existing Grid: FeltWorks Blades – VarAffix panels installed on a new or existing grid, with or without acoustical panels in place, must ensure the following conditions are met:

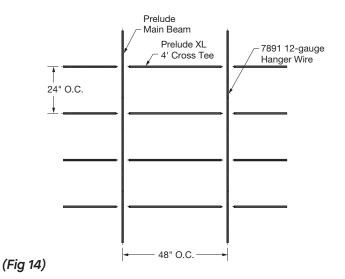
- · Grid must be installed per ASTM C636
- Grid must be 15/16" Prelude®
- Grid must meet the proper load classification to carry the FeltWorks Blades – VarAffix panels and any mineral fiber or fiberglass acoustical panels (if applicable)
- Specific instructions regarding the placement of Threaded Grid Clip (Item 6701) along the panels are noted in Section 6.2.

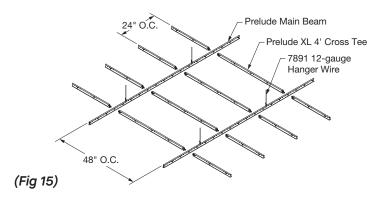
4.4.2 Suspension Rules for All Layouts

- 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

2' × 4' Layout (Figs 14 & 15)

Main beams (7300 or 7301) installed at 48" O.C. with 4' cross tees (XL7340 or XL7341) perpendicular to the main beams at 24" O.C.





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

Wall-to-Wall Perimeter Options

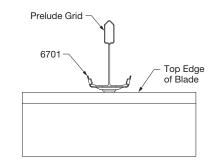
Although angle molding (7800) is usually the preferred perimeter trim, there are no special requirements for wall molding type or installation method.

5. FELTWORKS® BLADES - VARAFFIX™ PANELS TO SUSPENSION SYSTEM

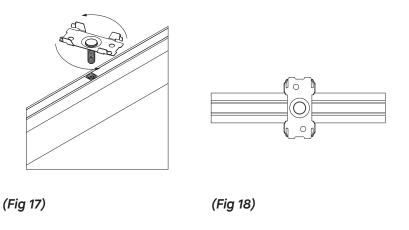
5.1. Threaded Grid Clip Attachment

(Fig 16)

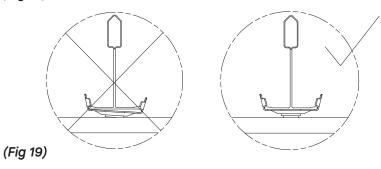
FeltWorks Blades – VarAffix panels are attached to 15/16" Prelude® XL® or 360° Painted Grid using the Threaded Grid Clip (Item 6701) (*Fig 16*).



Safety gloves are recommended when handling the clips. Each blade panel has attachment points at 24" O.C. for installation. Without the use of tools, thread the threaded stud into the threaded hole on the FeltWorks Blades – VarAffix by hand, the threaded stud should end in a perpendicular position to the blade length (Figs 17 & 18).



The Threaded Grid Clip (Item 6701) can rotate to align with the grid and is then snapped onto the flange of the cross tees. Make sure that all four corner tabs of the clip securely snap into place on the grid flange (Fig 19).



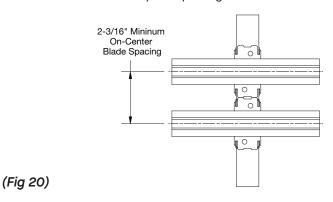
5.2 Clip Guidelines

- A Threaded Grid Clip is required at each threaded hole location on the FeltWorks Blades – VarAffix panel, found every 24" O.C., as specified by the blade's size and connections points. Refer to the last page for panel drawing detailing the threaded connectors per each panel length.
- Field modification may require you to reconfigure your grid. Refer to Section 7, for additional details and requirements for cutting blades in the field.

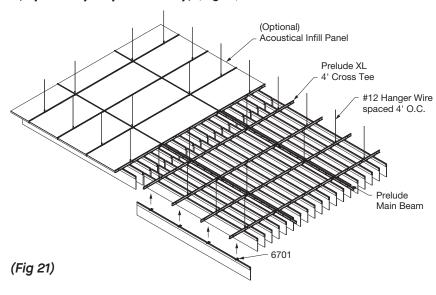
NOTE: Seismic installations have additional requirements for Threaded Grid Clip connections to the grid. See Section 9.4 for further information.

5.3 Minimum Blade - Panel-to-Panel/Clip-to-Clip Spacing

Due to the clips' overall size, the minimum spacing between the two clips is approximately 2-3/16" *(Fig 20)*. Refer to Section 9.4 for design consideration – blade layout spacing.



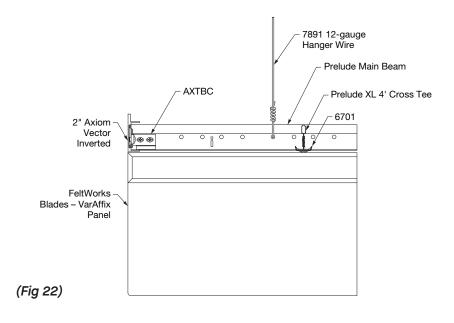
5.4 Installing FeltWorks® Blades – VarAffix™ Panels on the Grid with Acoustical Ceiling Panels Installed (square lay-in panels only) (Fig 21)

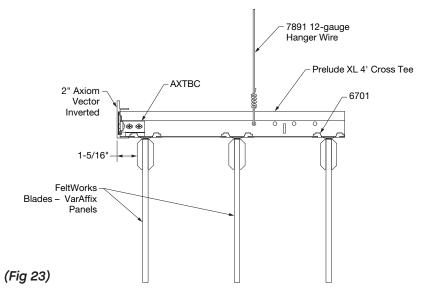


- FeltWorks Blades VarAffix panels can only be installed in conjunction with square lay-in panels. Panels that drop below the grid face will interfere with the Threaded Grid Clips.
- Align the FeltWorks Blades VarAffix panels and Threaded Grid Clip with the grid and then snap it onto the flange of the grid.
 Make sure that all four corner tabs of the clip securely snap into place over the grid flange.
- While holding the clip against the grid face, press down on the
 acoustical panel to ensure that it is level and flush with the flange
 of the grid. Holding the clip against the grid face as you push
 down the acoustical panel will ensure clip does not disengage
 from the grid flange. NOTE: The clip will pierce the face of the
 acoustical panel. Facial marring is hidden by the clip and the
 FeltWorks Blades VarAffix panels when installed.

6. FLOATING PERIMETER / 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 interfaces at the grid level because FeltWorks Blades – VarAffix panels hang at various elevations below the face of the grid system (Figs 22 & 23).





7. FELTWORKS® BLADES - VARAFFIX™ FIELD MODIFICATIONS

FeltWorks Blades – VarAffix panels can be cut using various tools, depending on the type and precision of the cut required.

7.1 Tools and Cutting Recommendations

7.1.1 Tools:

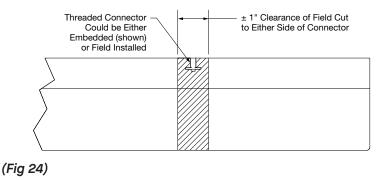
- Hand Tools: Insulation cutting knives, snap-away utility knives, and straight knives can be used for straight or circular cuts.
 Multiple passes (3-4) may be needed to cut through the material.
 Ensure the blade is long enough to prevent poor edge quality.
- Circular Saw: Use for straight cuts with a 7-1/4" foam blade (e.g., CenterFire™ by Bullet Tools™) or a non-ferrous/plastic blade (e.g., Diablo® D0756N or equivalent). To avoid melting the panel from frictional heat, ensure the tool speed and cutting angle are appropriate. Generally, the highest speed that does not cause overheating will yield the best result. Use a straight edge to guide the saw and maintain a constant feed rate. Ensure the blade stops completely before backing the saw out of the cut.

7.1.2 Cutting Recommendations:

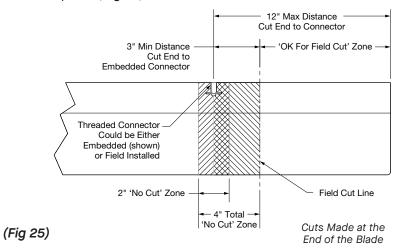
- Support the panel on a clean surface while cutting to minimize blemishes or melting on the cut face
- Avoid using the same cutting blade for panels of different colors to prevent fiber transfer. If only one blade is available, clean it with mineral spirits (or similar solvents) and steel wool.
- Keep the cutting blade clean and sharp for optimal cuts

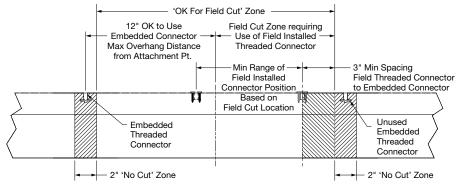
7.2 Rules for Hanging/Installing Cut Blades:

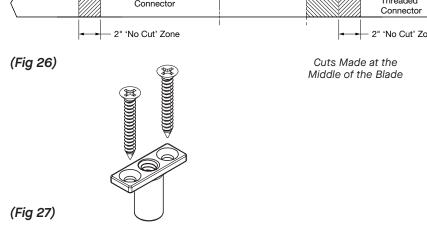
 Avoiding Embedded Threaded Connectors: Do not cut through existing embedded threaded connectors, as these are consider no-cutting zones. Make cuts at least 1" before or after the threaded connector (Fig 24).



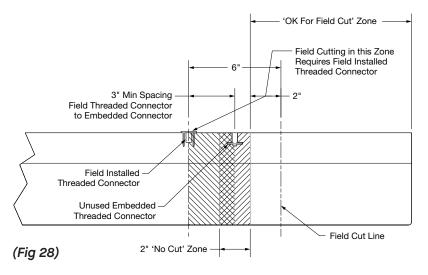
 Threaded Connector Placement: A threaded connector (whether embedded or field applied) must be in place no more than 12" and no less than 3" from the cut end (Fig 25 & 26). Therefore, if after a cut is made the cantilever or distance from the nearest hanging point exceeds 12", a Field-Cut Connector (Item 6371MF) is required (Fig 27).



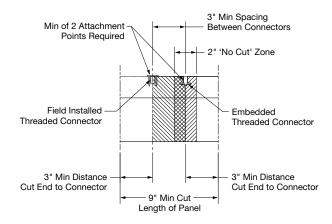




 When a cut is made close to an embedded threaded connector that is retained, but cannot be used, a field-applied threaded connector is required to maintain a minimum of 3" from the cut end and should be no less than 3" away from the factory embedded connector (Fig 28)



Minimum Blade Length & Connection Points: The minimum cut length for blades should be no less than 9" and require a minimum of two connection points for hanging (Fig 29).
 NOTE: Additional tees may be necessary to provide a suspension point for any new hanging points on the field-modified blade.



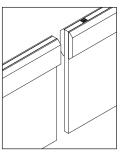
(Fig 29)

IMPORTANT NOTE: When modifying blades that will install individually with aircraft cables, ensure even weight distribution between the cut and factory ends. Install a field-cut connector (Item 6371MF) to balance the ends. Failure to do so will result in an uneven and aesthetically displeasing installation. Applying field-cut connectors (Item 6371MF) to both ends may be necessary for balanced weight distribution and satisfactory installation.

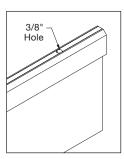
7.3 Installing Field-Cut Connector Kit (Item 6371MF)

Follow these 5 steps (Fig 30) to add field-cut connectors in the field:

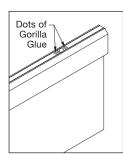
- · Cut the panel to the desired length
- Drill a 3/8" hole at the top of the blade, about 1" deep and within 12", but no less than 3" from the cut end. Use a brad point drill bit to minimize shifting and keep the drill bit centered.
- Apply dots of Gorilla Glue® to both sides of the hole
- Insert the threaded connector into the 3/8" hole and fasten with the provided screws
- Use caution when installing as glue may not have cured completely. It is recommended to follow the glue manufactures curing time.



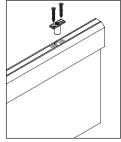
Step 1 Field cut panel



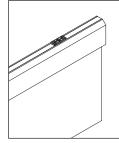
Step 2 Drill 3/8" hole in top of blade, about 1" deep



Step 3
Add dots of Gorilla Glue to both sides o the hole



Step 4
Insert hanging kit
into hole and secure
with screws



Step 5
Complete! Use caution
when installing as glue is
not fully cured for 24 hours

(Fig 30)

8. SPECIALTY INSTALLATION CONSIDERATIONS

8.1 Sloped Installation

The following rules apply to sloped installations for FeltWorks® Blades – VarAffix™ and are based on the installation method:

8.1.1 Independent Suspension with Hanging Kit

FeltWorks Blades – VarAffix panels can be angled up to 60° using the Angled Hanging Adaptor (Item 7121). This has been tested and approved in all Seismic Design Categories.

8.1.2 Attached to Prelude® 15/16" Grid

FeltWorks Blades – VarAffix panels should not be installed on a sloped grid. This applies to all Seismic Design categories

8.2 Product Classification

FeltWorks Blades – VarAffix panels are classified as an "architectural element" (no bracing is needed) when installed 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"

8.3 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 FeltWorks Blades – VarAffix panels (refer to Section 2.2 for sprinkler considerations). Fixture weight or housing must not be supported by the FeltWorks Blades – VarAffix panels.

8.4 Exterior Installations

FeltWorks Blades – VarAffix panels cannot be installed in exterior applications.

9. SEISMIC INSTALLATION

For more details on seismic installations please download our brochure, Seismic Design: What You Need to Know, available at armstrongceilings.com/seismic.

9.1 Aircraft Cable Installation:

The International Building Code states the ceiling system connection to the structure must allow the ceiling to move 360° in horizontal plane. FeltWorks Blades – VarAffix panels suspended individually with aircraft cable must be spaced a minimum of 6" apart or from surrounding surfaces to avoid contact during a seismic event.

9.2 Grid Suspension System:

- All seismic installations of FeltWorks Blades VarAffix panels must be installed per Seismic Categories D, E, F. This is regardless of the total system weight.
- Prelude® 15/16" Heavy-duty grid system 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 4.4
- FeltWorks Blades VarAffix panels attached to the grid have been engineered for application in all seismic areas

9.3 Seismic Rx® Suspension System Category D, E, and F Requirements (All Seismic Installations)

- FeltWorks Blades VarAffix panels must be spaced a minimum of 6" O.C. apart and from surrounding surfaces to avoid contact during a seismic event
- Ceiling installation should conform to basic minimums established in ASTM C636
- Minimum 7/8" wall molding suspension system must be attached on two adjacent walls
- Opposite walls require BERC2 (Beam End Retaining Clip 2) with 3/4" clearance attached on two adjacent walls
- BERC2 maintains main beam 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
- Suspension layouts are the same as described in Section 4.4:
 Suspension System
- Connection to the wall See BPCS-4141 Seismic Design:
 What You Need to Know Code Requirements Seismic Rx®
 Suspension System Tested Solutions Seismic Rx Approaches
 To Category C And D, E, And F Installations
- Special bracing required See BPCS-4141 Seismic Design: What You Need to Know – Code Requirements Seismic Rx Suspension System 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 Suspension System Tested Solutions – Seismic Separation Joints

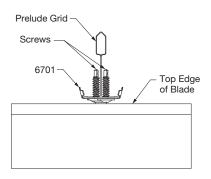
Seismic reaction information is based on full-scale testing and computer modeling conducted at the Structural Engineering Earthquake Simulation Lab located at the State University of New York at Buffalo.

9.4 FeltWorks® Blades - VarAffix™ Panel Attachment (Figs 31 & 32)

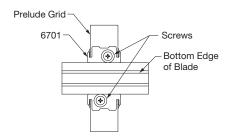
The minimum spacing between FeltWorks Blades – VarAffix panels for Seismic Design Categories D, E, and F is 6" O.C.

After installing the FeltWorks Blades – VarAffix panel (or a run of vertical panels) to the suspension system, ensure correct positioning of the panel and add two screws through the pilot hole on the Threaded Grid Clip (Item 6701) through the face of the grid. This will secure the clip to the suspension system.

NOTE: The use of a long shaft adapter may be necessary to install this screw.



(Fig 31)



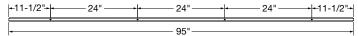
(Fig 32)

		Ordered Separately/	Required for	Pcs/	Lbs Per	Lbs Per
Item No.	Description – Sizes are Nominal not Exact	Included with	Install	Ctn	Panel	LF
6370RCE0004	_ 6" × 4'	Ordered Separately	Based on Design	12	1.83	0.45
6370RCE0007	6" × 6'	Ordered Separately	Based on Design	12	2.5	0.42
6370RCE0001	. 6" × 8'	Ordered Separately	Based on Design	12	3.67	0.46
6370RCE0008	_ 6" × 10'	Ordered Separately	Based on Design	12	4.33	0.43
6370RCE0009		Ordered Separately	Based on Design	12	2	0.5
6370RCE0010	8" × 6'	Ordered Separately	Based on Design	12	2.75	0.42
6370RCE0011		Ordered Separately	Based on Design	12	4	0.5
6370RCE0012	8" × 10'	Ordered Separately	Based on Design	12	4.83	0.48
6370RCE0013		Ordered Separately	Based on Design	12	2.25	0.56
6370RCE0014	10" × 6'	Ordered Separately	Based on Design	12	3.17	0.53
6370RCE0015	10" × 8'	Ordered Separately	Based on Design	12	4.5	0.56
6370RCE0016		Ordered Separately	Based on Design	12	5.42	0.54
6370RCE0017	12" × 4'	Ordered Separately	Based on Design	12	2.58	0.65
6370RCE0018	12" × 6'	Ordered Separately	Based on Design	12	3.67	0.61
6370RCE0019	12" × 8'	Ordered Separately	Based on Design	12	5.25	0.66
6370RCE0020	_ 12" × 10'	Ordered Separately	Based on Design	12	6.25	0.63
FELTWORKS BLAD	ES - VARAFFIX PANEL SUSPENSION & ACCESSORIES					
	sion Intermediate Duty					
7300	Prelude® 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		
6701	Threaded Grid Clip for VarAffix	Ordered Separately	Yes	80		
For Group Suspens						
7301	Prelude 12' HD Main Beam	Ordered Separately	Yes	20		
XL7341	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		
6701	Threaded Grid Clip for VarAffix	Ordered Separately	Yes	80		
Floating Perimeter			_			
AX_STR	Axiom® Classic Straight Trim	Ordered Separately	Based on Design	10 LF		
7239	Adjustable Trim Clip (ATC)	Ordered Separately	Based on Design	1		
For Individual Susp	pension					
5450	Cable Suspension Kit	Ordered Separately	Yes	2		
625530	Extended Hanging Cables (30' Aircraft Cable)	Ordered Separately	Based on Design	4		
7121	Angled Hanging Adaptor (60° maximum angle) – Extends from the end of Deck Hanging Kit (5450)	Ordered Separately	Based on Design	2		
Other Accessories						
6371MF	FeltWorks Blades - VarAffix Field-Cut Connector Kit	Ordered Separately	Based on Design	10		
BERC2	2" Beam End Retaining Clip	Ordered Separately	Based on Design	200		
6459BL	The Rigid Attachment Clip	Ordered Separately	Based on Design	2		

BP6370: 10' L × 6" D (shown)



BP6370: 8' L × 6" D (shown)



BP6370: 6' L × 6" D (shown)



BP6370: 4' L × 6" D (shown)



(Fig 33) Number and Spacing of Embedded Threated Connector for Each Panel Length

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 or FAX 800 572-TECH.

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