WoodWorks® Concealed

Assembly and Installation Instructions

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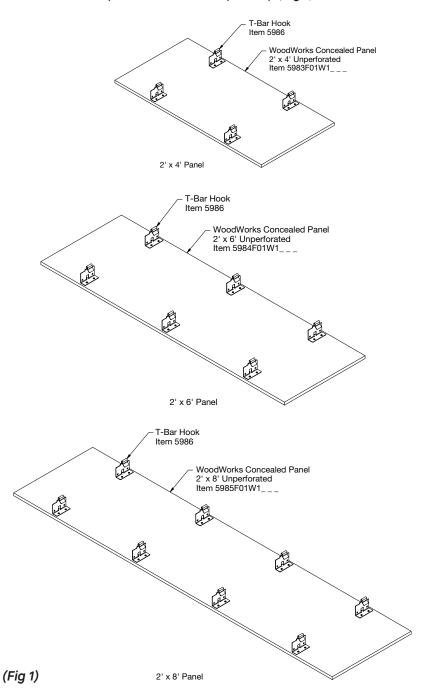
1. GENERAL

1.1 Product Description

WoodWorks® Concealed ceilings consist of perforated and unperforated panels that are downward accessible and are designed to be installed on Armstrong® Prelude® 15/16" wide T-bar suspension system with T-bar hooks attached to panels. All panels can be removed and reinstalled for access to the plenum. Panels are supported from the grid system by metal hooks that are screwattached through predrilled holes. Panels are fitted with safety cables to prevent falling to the floor in the event of loss of grid support.



Available panel sizes are $2' \times 4'$, $2' \times 6'$, and $2' \times 8'$. Panels, hooks, screws, and safety cables are sold separately (*Fig 1*).



For floating or noncontinuous installations, WoodWorks® Concealed 6" Trim is available, painted aluminum in black. Refer to Section 7 for details.

1.2 Material and Surface Finish

All wood panels are constructed of wood chips factory bonded together between two layers of wood veneer finish. All exposed edges are banded with the same finish as the face. The panels are offered in a variety of finishes.

Natural variations in color and grain are characteristic of wood products. To maximize visual consistency, panels should be unpacked and examined collectively to determine the most desirable arrangement for installation.

IMPORTANT NOTE: For phase projects or large orders, it is recommended to work with your local rep to give advanced notice prior to placing an order. This will allow the manufacturing facility to secure the quantity of material needed for your project and have the best chance to produce coordinating panels for a selected finish.

1.3 Storage and Handling

Ceiling components should be stored in a dry interior location and should remain in cartons or crates prior to installation to avoid damage. The cartons should be stored in a flat, horizontal position. The protectors between panels should not be removed until installation. Proper care must be taken when handling to avoid damage and soiling. Do not store in unconditioned spaces with humidity greater than 55% or lower than 25% RH and temperatures lower than 50°F or greater than 86°F. Panels must not be exposed to extreme temperatures, for example, close to a heating source or near a window where there is direct sunlight.

1.4 Site Conditions

WoodWorks ceiling panels and veneer-wrapped trim should be permitted to reach room temperature and have stabilized moisture content for a minimum of 72 hours before installation. Remove plastic wrap to allow panels to acclimatize. They should not, however, be installed in spaces where the temperature or humidity conditions vary greatly from the temperatures and conditions that will be normal in the occupied space.

1.4.1 HVAC Design and Operations

Proper design for both supply air and return air, maintenance of the HVAC filters, and building interior space are essential to minimize soiling. Before starting the HVAC system, make sure air supply is properly filtered and the building interior is free of construction dust.

1.4.2 Temperature and Humidity During Installation

WoodWorks® Concealed ceiling panels are interior finish products that are designed for installation to be carried out in temperature conditions between 50°F (10°C) and 86°F (30°C), in spaces where the building is enclosed, and HVAC systems are functioning and will be in continuous operation. Relative humidity must not fall below 25% or exceed 55%. There should be proper ventilation of the plenum in high moisture areas.

All plastering, concrete, terrazzo, or any other wet work should be completely dry. All windows and doors should be in place. The heating, ventilation, and air-conditioning system should be installed and operable where necessary to maintain proper temperature before, during, and after installation of the WoodWorks panels.

1.5 Warranty

The WoodWorks Concealed ceiling system has been tested based on the installation guidelines described in this document. The warranty will be voided if you do not follow these instructions and guidelines.

1.6 Fire Performance & Sprinklers

WoodWorks Concealed panels are tested to ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

Panels may obstruct or skew the existing or planned fire sprinkler water distribution pattern, possibly delaying the activation of the fire sprinkler or fire detection system or accelerating the activation of the sprinkler by channeling heat from the fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present. A hole may be cut through the panel to allow for sprinkler head and other penetrations. Refer to Section 5.1.

1.7 Cleaning Recommendations

WoodWorks Concealed panels can be cleaned with a soft, dry cloth.

2. DESIGN AND INSTALLATION CONSIDERATIONS

2.1 Panel Face Offset

WoodWorks Concealed panels hang below the suspension system to which they are attached. The face of the installed panels will be 2-7/8" below the face of the suspension system from which they are supported. The plenum may be visible through the 1/4" panel reveal.

2.2 Large Panels & Mixing Different Panel Sizes

Use of large wood panels may result in deflection up to 1/8" and alignment inconsistency due to size and ambient conditions. Do not mix different panel sizes with slotted perforations. Perforation border will not align.

2.3 Use of Support Hanger (SH12)

Use of the Support Hanger (SH12) is highly recommended. The support hanger can be used to reduce up to 50% of the number of hanger wire attachments to the main beams. Refer to Section 4.3.3 for details.

2.4 Single Panel Installation

Single panel installations are not recommended. They can work only if a minimum of 1-3/4" clearance can be maintained from wall-to-wall to allow the panels to disengage for access.

2.5 Slope and Exterior Installations

Not recommended for sloped or exterior ceiling installations.

3. ACCESSORIES

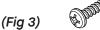
3.1 T-Bar Hooks (Item 5986) (Fig 2)

- 4 hooks are required for each 2' × 4' panel
- 6 hooks are required for each 2' × 6' panel
- 8 hooks are required for each 2' × 8' panel

(Fig 2)

3.2 Wood Screws (Item 7123) (Fig 3)

- Three screws are required for each hook

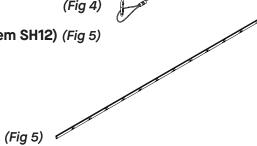


3.3 24" Safety Cables (Item 6091) (Fig 4)

- Two cables are required for each panel



3.4 12' Support Hanger (Item SH12) (Fig 5)



4. SUSPENSION SYSTEM FOR WALL-TO-WALL INSTALLATION

4.1 General

Use heavy-duty 15/16" Prelude® XL® T-Bar suspension system, main beams, cross tees, and wall molding to support the WoodWorks® Concealed panels. All installations should follow ASTM C636. All references to suspension component duty ratings are per ASTM C635. The suspension system is directional; WoodWorks Concealed panels install perpendicular to the main beams. Refer to the reflected ceiling plan to determine the suspension system layout to ensure main beams run perpendicular to the panel length. Hangers and bracing are to comply with all local code requirements. The suspension system must be properly installed and leveled using no less than 12-gauge galvanized steel wire. The suspension system must be leveled to within 1/4" of 10' and must be square to within 1/16" of 2'. Installation of suspension systems that do not meet this tolerance will produce unacceptable panel alignment. 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.

For seismic installation, refer to Section 8.

4.2 Load Capacity

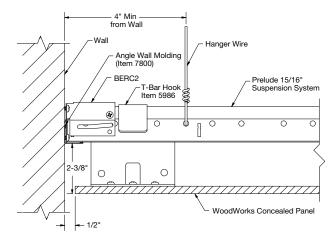
WoodWorks Concealed panels weigh 2.75 LBS/SF. Therefore, heavy-duty main beams are required by building code. Main beams must be capable of carrying the weight of the panels plus any additional ceiling components that are not independently supported from the building structure.

4.3 Grid Installation

Follow these instructions carefully to complete the installation of the suspension system.

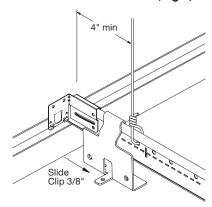
4.3.1 Wall Molding

Use Angle Wall Molding (Item 7800) at the perimeters. Molding should be attached to the wall 2-7/8" above the finish ceiling height (*Fig 6*). Secure the ends of the grid with pop-rivets. BERC2 clips can also be used in place of pop-rivets for a clean visual. The 7/8" leg molding will provide a 1/2" reveal between panel edge and wall.



(Fig 6)

IMPORTANT NOTE: If using BERC2 in place of rivets, the clips adjacent to the molding must be relocated 3/8" towards the center of the panel. Draw lines through the factory-drilled pilot holes across the back of the panel. Shift the outer clips 3/8" towards the center of the panel and secure each with three screws (*Fig 7*).

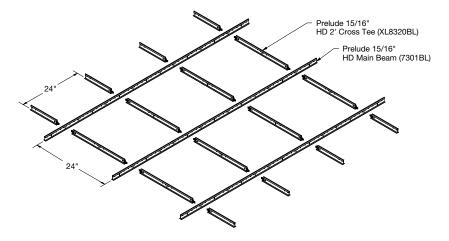


(Fig 7)

Hanger wires should be attached to the grid no less than 4" from the wall. These wires will interfere with clip installation.

4.3.2 Grid Layout

The suspension system for this system does not line up with the panel edges. The main beams are located 1' from the short side of the panels and 2' O.C. The cross tees install perpendicular to the main beam every 24", creating a 24" × 24" grid module (*Fig 8*).

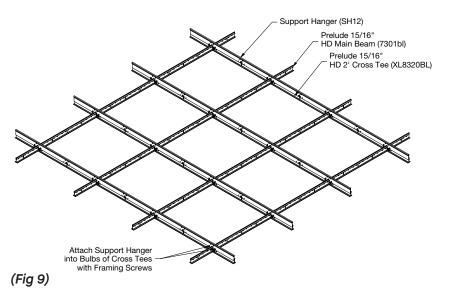


(Fig 8)

Up to 10" may be cut from the end of the panel before the grid location at the cut end must be altered. When more than 10" must be removed, install a main beam 1' closer to the center of the panel.

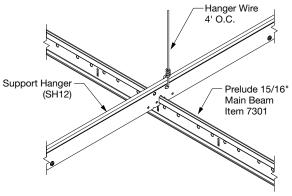
4.3.3 Optional Installation with Support Hanger (SH12)

The Support Hanger (SH12) can be used to reduce the number of hanger wire attachments to the main beams. If the support hanger is not used, hanger wires will be required on main beams every 4' along the main. Where sections of support hanger must be joined together, overlap one notch and secure with framing screws inserted through the holes provided (**Fig 9**).



4.3.3.1 Main Beams

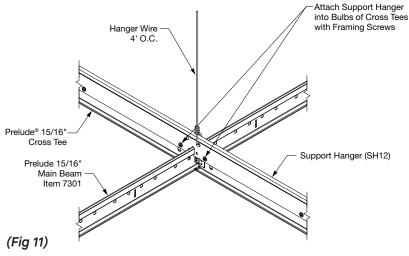
Open the mount of the support hanger notches where mains must be installed by bending with a pair of pliers. Cut the first main beam in each row to provide a cross tee rout hole at the long edge of the first row of panels. Insert the main beams into the support hanger notches and close the mouth by bending the tab back under the bulb of the main. Work carefully to ensure that each tab is properly seated under the bulb of the main (*Fig 10*).



(Fig 10)

4.3.3.2 Cross Tee

Install 2' cross tee, above the long edges of the panels to complete the grid installation. Swing the support hanger out of the way to provide clearance for the end details on the tees. Install all the tees in a row and then secure the support hanger by inserting a framing screw through the hole provided and into the bulb near each end of each tee (Fig 11).



4.3.3.3 Hanger Wires

Support Hangers (SH12) are supported from structure with 12-gauge wires starting 2' from the perimeter then 4' O.C. along the length of SH12.

5. PANEL INSTALLATION

5.1 Cutting the Panel

Cut the panel using standard woodworking tools and, where possible, a straight edge. A table saw is recommended for straight cuts and a band saw for curved cuts. In general, these practices will be typical of those employed in finish carpentry.

CAUTION! WOOD DUST. Sawing, sanding, and machining wood products can produce dust. Airborne wood dust can cause respiratory, eye and skin irritation. The International Agency for Research on Cancer (IARC) has classified wood dust as a nasal carcinogen in humans.

Precautionary measures: Avoid inhalation of dust. If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designed dust mask. Avoid dust contact with eyes and skin.

First aid measure in case of irritation: Flush eyes or skin with water for at least 15 minutes.

5.1.1 Starting Row

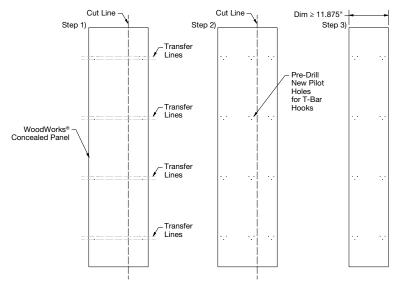
Check the orientation of the hooks when attached to the predrilled holes on the back of the panel. The starting row must be installed such that the open side of the hooks will be facing the wall. Cut the panel as required considering the reveal dimensions listed in Section 4.3.1.

5.1.2 Relocating Hooks

If cutting the panel removes any of the hook attachment holes, these should be relocated prior to cutting.

5.1.3 Cutting the Long Edge

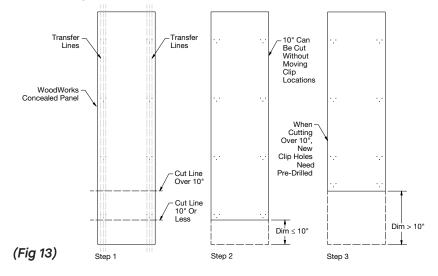
When the long edge of the panel is to be cut, first use a straight edge to draw lines across the back of the panel through the factory holes. Cut the panel to size. Attach a T-Bar Hook (Item 5986) to each set of factory-drilled holes; three screws are required in each clip. Measure the grid opening and place clips on the reference lines so that the dimension from the outer edge of the factory clip to the outer edge of the relocated clip matches the grid opening dimension. Drill pilot holes at the new screw locations. Use a stop on the drill to prevent penetrating the panel. Attach the relocated clips with three screws in each (*Fig 12*).



(Fig 12)

5.1.4 Cutting the Short Edge

Up to 10" may be cut from the narrow end of a panel without moving clip locations. When more than 10" must be removed begin by carefully measuring back 12" from the factory holes toward the center of the panel and draw lines across the back of the panel. Cut the panel and attach the hooks to the factory holes and on the lines. Be careful to maintain the correct position along the lines. Measure the factory holes for uncut edges and follow the procedure in Section 5.1.3 where the long edge has also been cut. Each clip must have three screws installed (*Fig 13*). **NOTE:** Pre-drill holes prior to installation.

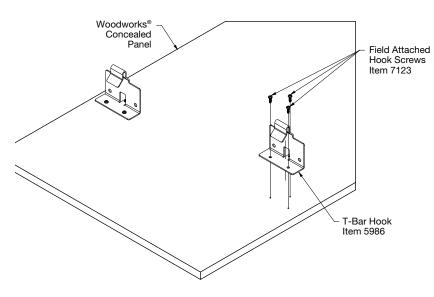


5.1.5 Treating Exposed Edges

Cut panel edges that are exposed to view will have to be treated to look like factory edges. Pre-finished peel-and-stick edge banding is available for this purpose. Cut edge must be clean and smooth before applying edge banding. Peel off the release paper and apply the edge banding using finger pressure or a small trim roller. Trim excess material with a sharp knife blade or with the edge trimmer available for order through Armstrong. See Section 7 for finishing edges on floating or noncontinuous installations.

5.2 Attach Clips

Attach a T-Bar Hook (Item 5986) at each set of factory-drilled pilot holes on each panel. Three Hook Screws (Item 7123) are required in each clip (*Fig 14*).

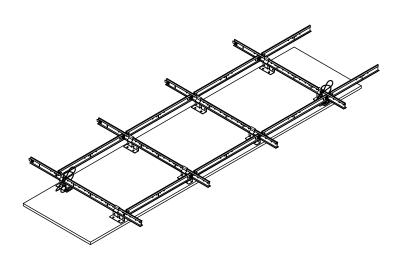


(Fig 14)

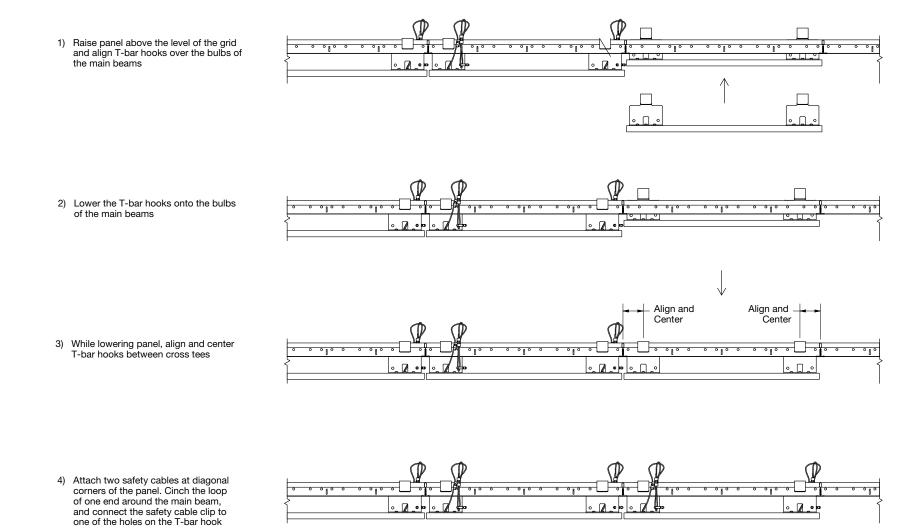
5.3 Installing Panels

5.3.1 First Row

First row panels are installed with the open side of the clips facing the wall. Raise the hooks above the level of the grid and move the panel toward the wall. Lower the clips onto the bulbs of the main beams. The clips will fit between the cross tees and center the panels under the grid opening. Attach two safety cables at diagonal corners of the panel. Cinch the loop end of the cable around the main beam and connect the clip at the other end to one of the holes on the hook (Figs 15 & 16).



(Fig 15)



(Fig 16)

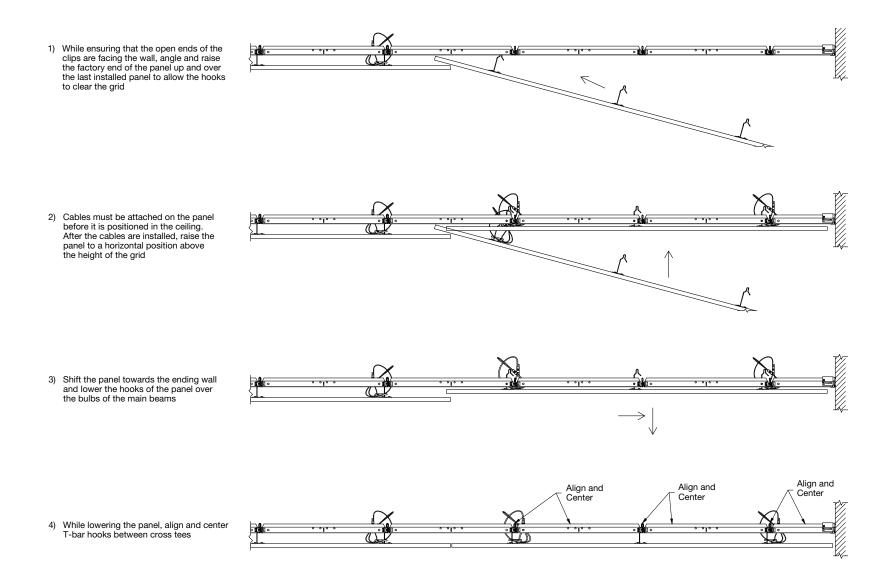
5.3.2 Middle Rows

Apply hooks to the remaining full-size panels and install in the same direction as the first row. Attach two safety cables to each panel as they are installed.

5.3.3 Last Rows

Panels in the last row are reversed so that they install with the open side of the hooks facing the ending wall. Prepare the panels as detailed in Section 3.0. Raise the factory end of the panel up and over the end of the one in the next-to-last row to allow the hooks to

clear the grid. Shift the panel up and toward the wall to engage the hooks onto the main beams. Install safety cables as the installation progresses. Cables on the last panel must be attached before the panel is positioned in the ceiling (*Fig 17*).



(Fig 17)

6. PANEL REMOVAL

Panels are easily removed by lifting to disengage the hooks from the main beams. Lift and shift in the long direction of the panel. Border panels will always move away from the wall. Panels in the center of the installation will only move in one direction. Once the hooks have cleared the grid, lower the free end of the panel until the hooks near the upper end can clear the grid. Remove the safety cables from the clips and lower the panel to the floor.

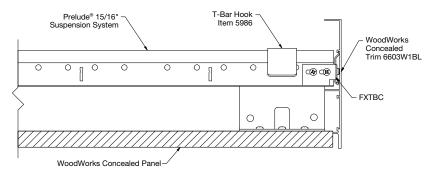
7. FLOATING/DISCONTINOUS INSTALLATION

The suspension layout for floating or cloud applications should be the same as what is detailed in Section 4. Main and cross tees need to be in place around the entire perimeter so perimeter trim can be attached to the suspension system. Wires will be required on both cross tees and mains around the perimeter, no more than 8" from perimeter. A minimum 2-panel long installation is recommended for floating installations. For installation with cut panels, follow the tips in Sections 5.1.3 and 5.1.4.

7.1 Floating Installation with WoodWorks® Concealed Trim

WoodWorks Concealed Trim (Item 6603W1BL) is available in 10' lengths which can be field-mitered using a power saw equipped with a blade designed to cut aluminum. WoodWorks Concealed Trim is fastened to the suspension system using the FXTBC clip. Steel splice plates (Item FXSPLICE) are used to align and secure all joints between sections of trim. Two splice plates are required at each joint and a 1/8" hex key wrench can be used to tighten the set screws that secure the splice to the trim (*Fig 18*). **CAUTION**: Do not overtighten the screws to the point where they distort the face of the trim.

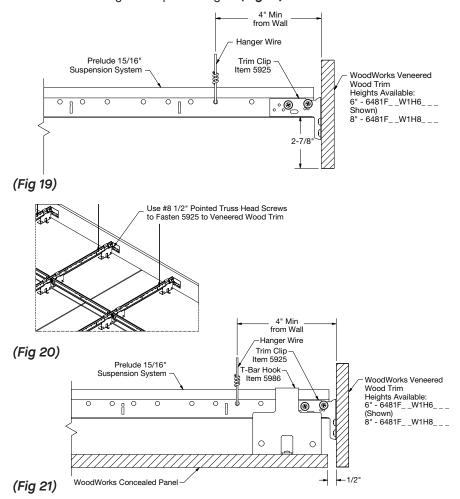
Refer to the WoodWorks Concealed Trim installation instructions for details.



(Fig 18)

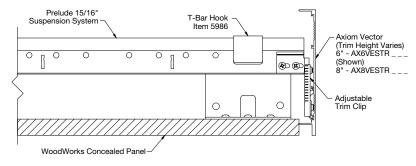
7.2 Floating Installation with WoodWorks® Veneer Trims

WoodWorks trims are available in 8' lengths in coordinating veneers. The 6" and 8" height trims are recommended for the best visual. These trim pieces are only to be used in clouds with straight perimeter borders. Cut the trim to fit as required and join the pieces with a #20 biscuit joint and wood glue on straight runs or mitered corners. Use two biscuits with 6" and 8" trims. A finishing pin nail can be used to hold your mitered corners together while your biscuit joint dries. Use Trim Clip (Item 5925) (included with trim) to fasten trim to the suspension system every 2' O.C., aligning with the 24" x 24" grid module (*Fig 19*). Use #8 × 1/2" pointed truss-head screws (by others) to attach the clip to the trim (*Fig 20*). It is recommended that hanger wires are no less than 4" from the perimeter to avoid wire interference when fastening the clip to the grid (*Fig 21*).



7.3 Floating Installation with Axiom® Vector Trim

Axiom Vector can be used for straight and curved conditions for floating conditions. For best visual, a minimum 6" height trim is recommended. Trim can be field-mitered using a power saw equipped with a blade designed to cut aluminum. Axiom Vector is fastened to the suspension system using the Adjustable Trim Clip (Item 7239). Splice Plates (Item AXSPLICE2) are used to align and secure all joints between sections of trim. Two Splice Plates are required at each joint and a 3/8" box wrench can be used to tighten the set screws that secure the splice to the trim (*Fig 22*). **CAUTION:** Do not overtighten these screws to the point where they distort the face of the trim.



(Fig 22)

8. SEISMIC INSTALLATION

WoodWorks® Concealed panels have been engineered and tested for application in all seismic areas based on these installation procedures. The following installation guidelines are required in areas where anticipated seismic activity will be moderate to severe (IBC Seismic Design Categories C, D, E, and F). Consult the local building department to ensure compliance with their unique requirements.

8.1 Suspension System Installation

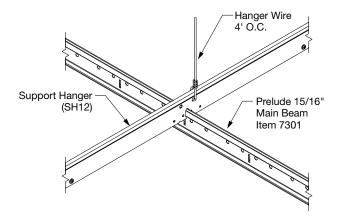
Use a heavy-duty 15/16" Prelude® XL® T-Bar suspension system to support the panels as listed in Section 4. The installation should, in all cases, conform to the International Building Code Seismic Design Category D, E, and F. Refer to Armstrong Seismic Ceiling Installation Guide BPCS-4141 for more details. Refer to the reflected ceiling plan to determine the panel orientation. Remember to account for any infill panel weight in addition to panel weight to determine total system weight. Hook clips will install on the main beams. The first main beam should be no more than 12" off the wall and then follow the spacing requirements below. In addition to the above requirements, also follow ASTM C636 requirements. The requirements listed here represent the

manufacturer's minimum acceptable installation recommendation and may be subject to additional requirements established by the local authority having jurisdiction.

8.2 Installing Support Hanger (SH12)

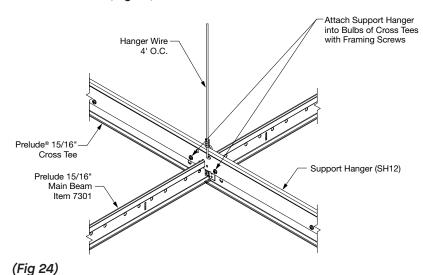
Support Hanger (SH12) can be used to reduce the number of hanger wire attachments to the main beams. If the support hanger is not used, hanger wires will be required on main beams every 4' along the main. Where sections of support hanger must be joined together, overlap one notch and secure with framing screws inserted through the holes provided.

8.2.1 Open the mount of the support hanger notches where mains must be installed by bending with a pair of pliers. Cut the first main beam in each row to provide a cross tee rout hole at the long edge of the first row of panels. Insert the main beams into the support hanger notches and close the mouth by bending the tab back under the bulb of the main. Work carefully to ensure that each tab is properly seated under the bulb of the main (*Fig 23*).



(Fig 23)

8.2.2 Install 2' cross tee, above the long edges of the panels to complete the grid installation. Swing the support hanger out of the way to provide clearance for the end details on the tees. Install all of the tees in a row and then secure the support hanger by inserting a framing screw through the hole provided and into the bulb near each end of each tee (*Fig 24*).



8.2.3 Support Hangers (SH12) are supported from structure with 12-gauge wires starting 2' from the perimeter, then 4' O.C. along the length of SH12.

8.3 Seismic Rx® 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
- HD Wall Anchor (Item 7100) maintains main beam and cross tee spacing; no other components required
- Heavy-duty systems as identified in ICC-ESR-1308
- · Safety wires 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 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:
 Suspension System
- Connection to 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 Installations
- 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

Item No.*	Description – Sizes are Nominal not Exact	Ordered Separately/ Included with	Required for Install	Sold by the	PCS/ CTN
WOODWORKS® CON	CEALED PANELS				
5983F01	2' x 4' Panel	Ordered Separately	Based on Design	64 SF Min	Bulk
5984F01	2' x 6' Panel	Ordered Separately	Based on Design	64 SF Min	Bulk
5985F01	2' x 8' Panel	Ordered Separately	Based on Design	64 SF Min	Bulk
FSC® CERTIFIED WO	ODWORKS CONCEALED PANELS				
5983F02	2' x 4' Panel	Ordered Separately	Based on Design	64 SF Min	Bulk
5984F02	2' x 6' Panel	Ordered Separately	Based on Design	64 SF Min	Bulk
5985F02	2' x 8' Panel	Ordered Separately	Based on Design	64 SF Min	Bulk
Suspension System			· •		
7301	Prelude® XL® 12' HD Main Beam	Ordered Separately	Yes	CTN	20
XL8320	Prelude XL 2' Cross Tee	Ordered Separately	Yes	CTN	60
7891	12-gauge Hanger Wire	Ordered Separately	Yes	Bundle	140
Perimeter Trim					
7800	12' Angle Wall Molding	Ordered Separately	Based on Design	CTN	30
6481F01W1H6	6" Veneer Trim with 4 Clips	Ordered Separately	Based on Design	PCS	8 LF
6481F01W1H8	8" Veneer Trim with 4 Clips	Ordered Separately	Based on Design	PCS	8 LF
6603W1BL	10' WoodWorks Concealed Trim in Black	Ordered Separately	Based on Design	CTN	6
AX_VESTR	Axiom® Vector Straight Trim – Recommend in Black	Ordered Separately	Based on Design	PCS	10 LF
AX_VECUR	Axiom Vector Curved Trim - Recommend in Black	Ordered Separately	Based on Design	PCS	10 LF
Accessories					
6408	3/4" Veneer Edge Banding	Ordered Separately	Based on Design	1 Roll	25 FT
5925	Replacement Trim Clip	Ordered Separately	Based on Design	CTN	25
7100	Heavy Duty Wall Anchor - Seismic	Ordered Separately	Yes - Seismic D,E, & F	CTN	50
7239	Adjustable Trim Clip (ATC)	Ordered Separately	Based on Design	CTN	50
BERC2	2" Beam End Retaining Clip	Ordered Separately	Based on Design	CTN	200
SH12	12' Support Hanger	Ordered Separately	Yes - Recommended	CTN	12
5986	T-Bar Hook	Ordered Separately	Yes	CTN	50
7123PKG300	Wood Screws	Ordered Separately	Yes	CTN	300
6091	WoodWorks Safety Cable With Spring Snap 2'	Ordered Separately	Yes	CTN	50

[♦] When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes.

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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