

WoodWorks® Grille — Select System

Assembly and Installation Instructions



TABLE OF CONTENTS

1. GENERAL	2	5. PANEL INSTALLATION	5
1.1 Product Description		5.1 Panel Attachment to Suspension System	
1.2 Material and Surface Finish		5.2 WoodWorks Grille - Select Reveal	
1.3 Storage and Handling		5.3 WoodWorks Grille - Select Border	
1.4 Site Conditions		6. MEP INTEGRATION	8
1.5 Color		7. CUTTING	8
1.6 Ordering Considerations		8. SEISMIC INSTALLATION	8
1.7 Fire Performance		8.1 Suspension System Installation	
1.8 Cleaning Recommendations			
2. DESIGN & INSTALLATION CONSIDERATIONS	3		
2.1 Suspension Layout			
2.2 14" Reveal Between Panel Ends			
2.3 Plenum			
3. PANEL ACCESSORIES	3		
3.1 Trim Accessories			
3.2 Finish Options for Cut Ends			
3.3 Acoustical Infill Panel Options			
4. SUSPENSION SYSTEM.....	4		
4.1 Suspension System Wall-to-Wall			
4.2 Suspension System Layout			
4.3 Suspension System Installation			

1. GENERAL

1.1 Product Description

The WoodWorks® Grille — Select system is a highly versatile ceiling solution designed to provide maximum design flexibility for unique architectural requirements. Moving beyond the constraints of standard offerings, this system allows for a wide array of configurations, including panel lengths ranging from 3' in one-foot increments to up to 10' and a variable number of blades ranging from 2 to 8 per panel. The system is available in varying blade thicknesses (3/4", 1" & 1-3/8") and depths (1-3/8", 2-1/4" & 3-1/4"). Panels must be installed with heavy-duty Prelude® XL® 15/16" suspension system using screws.

An optional black acoustical fleece backing is available for WoodWorks Grille — Select panels, providing plenum concealment and increased acoustical absorption.

1.2 Material and Surface Finish

Slats are constructed of western hemlock and panel backers are constructed from plywood. Slats have a satin coating. Backers have a black factory finish.

1.3 Storage and Handling

All ceiling components should be stored in a dry interior location and should remain in the original packaging prior to installation to avoid damage. The materials must be stored off the floor in a flat, level condition. Do not store in unconditioned spaces with humidity greater than 55% or lower than 25%, or with temperatures above 86°F or lower than 50°F. Use proper care when handling to avoid damage or soiling.

CAUTION: Use proper care and caution when handling suspension systems due to exposed and sharp cut edges.

1.4 Site Conditions

Building areas that will receive a ceiling shall be free of construction dust and debris. Installation of the products shall be carried out where the temperature is between 50°F and 86°F and relative humidity levels maintained between 25% RH and 55% RH. These temperature and humidity conditions must be met throughout the lifetime of the ceiling.

Real wood and wood composite products are natural building materials, and they will react to changes in humidity and temperature. (Wood tends to contract with lower humidity and expand with higher humidity.) Wood may also have a tendency to warp, twist, or bow, due to the natural stresses in the components and these humidity changes. Be aware of these natural tendencies when evaluating the products and suitability of this product in your space. It is also necessary for the area to be enclosed and for the HVAC systems to be functioning and in continuous operation. All wet work (plastering, concrete, etc.) must be complete and dry. These products cannot be used in exterior applications.

To ensure that the ceiling panels have stabilized to the current building conditions, before their installation, recommend uncrating and keeping panels on the skid, and placing panels in an environmentally stable building location for a minimum of 72 hours.

1.5 Color

WoodWorks Grille — Select panels are made of solid wood and are available in a variety of standard finishes. Custom options are available. 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.

1.6 Ordering Considerations

Be sure to account for extra material that is normally needed for wood installations. When installing WoodWorks Grille — Select panels, you should consider ordering at least 5% extra material.

Up to 10% more may be needed for diagonal or special installations. It is the customer's responsibility to plan each layout and order the correct amount of installation material needed, taking into account the design. WoodWorks Grille — Select panel will have a 1" reveal between panel ends. You will need to account for this 1" spacing when designing your space and determining the quantity required for installation.

FOR PHASE PROJECTS INSTALLATIONS: It is recommended to work with your local rep to give advance 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 grilles for your finish. If extra material is ordered after the first batch of material has been placed, panels will be produced to best coordinate with the finish of the first order.

1.7 Fire Performance

As with other architectural features located at the ceiling, WoodWorks® Grille — Select panels may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a 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 where automatic fire detection and suppression systems are present.

1.8 Cleaning Recommendations

There are three methods that we recommend for cleaning a WoodWorks Grille — Select panel.

1. The panels can be vacuumed to remove any dust or dirt that may accumulate on the slats or backers.
2. Use a clean, dry, soft cloth to wipe off any dirt or greasy fingerprints. If this does not clean the panel, use a damp, clean, soft white cloth or sponge with a mild detergent to wipe the panel.
3. For scuff marks that may have transferred from the backers to the slats; use a clean, soft white cloth with either naphtha or mineral spirits to clean scuff marks on solid wood slats. We recommend wiping the slats with normal pressure, and do not recommend scrubbing the slats with the cloth.

2. DESIGN & INSTALLATION CONSIDERATION

2.1 Suspension Layout

This system uses hanging backers that vary in placement depending on the panel length. Because of this, the Prelude® XL® HD 15/16" main beams must be installed to match the exact hanging backer spacing for each panel type. Proper layout planning is essential to ensure every hanging backer lands on a main beam.

2.1.1 Standard Grid Layout (Even-Length Panels)

If the installation uses only even-length panels, the grid can be installed using a consistent 2' main-beam spacing throughout the ceiling area. This layout is recommended when a uniform, traditional 2' spacing is desired for the entire installation.

2.1.2 Customized Grid Layout (Odd-Length or Mixed Panels)

When odd length panels, or a mix of odd and even panels, are used, the grid layout will require additional planning. These panels do not align with the standard 2' spacing, and therefore a custom main beam layout must be used. Refer to Section 4.2 for details.

- Refer to the Reflective Ceiling Plan (RCP) to verify the correct main beam locations.
- The layout must provide a main beam hanging point for every hanging backer on each panel.
- The non-standard spacing occurs only at the panel ends, where it transitions from one panel to the next.
- All intermediate hanging backers are placed at 2' O.C., so the main beams should return to standard 2' O.C. spacing between backer locations.

2.2 1" Reveal Between Panel Ends

All WoodWorks Grille — Select panels are designed to have a 1" reveal between panel ends. It is important to consider how this reveal aligns within your ceiling plane during the initial layout. This 1" spacing must be maintained; any modifications to the panels or the suspension system intended to eliminate this gap will result in an unwarranted condition.

2.3 Plenum

WoodWorks Grille — Select Panels are screw-attached to the suspension system. The panel does not travel to the plenum for installation, so minimal plenum spacing is required.

NOTE: Light fixtures and air handling systems require more space and will usually determine the minimum plenum height for the installation. It is required that MEP be independently supported. There must not be weight from any lights, diffusers, speakers, or similar devices supported by the panels or the suspension system.

3. WOODWORKS GRILLE PANEL ACCESSORIES

3.1 Trim Accessories

Wood trim options are available in coordinating slat finishes as custom.

3.2 Acoustical Infill Panel Options

For acoustics and blocking plenum view, 24" × 24" BioAcoustic Infill Panel (Item 5823) is available. Panels will need to be cut to fit non-standard 24" × 24" grid layout when installing odd or mixed length panels.

4. SUSPENSION SYSTEM

4.1 Suspension System Wall-to-Wall

Use heavy-duty 15/16" Prelude® XL® T-Bar suspension system, main beams, cross tees, and wall molding to support the WoodWorks® Grille — Select panels. All installations should follow ASTM C636. All references to suspension component duty ratings are per ASTM C635.

WoodWorks Grille — Select 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.

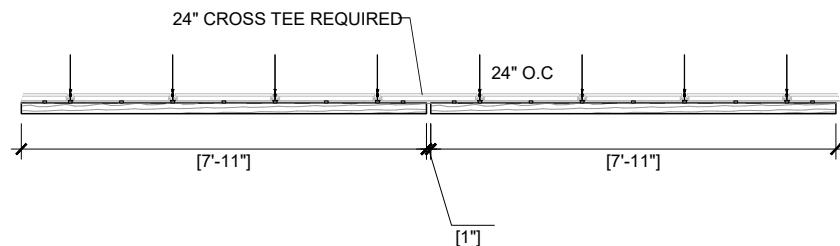
Hangers and bracing are to comply with all local code requirements. The suspension system shall be properly installed and leveled using no less than 12-gauge galvanized steel wire. The suspension system must be leveled to within 1/4" in 10' and must be square to within 1/16" in 2'. Installation on suspension systems that do not meet this tolerance will produce unacceptable panel alignment.

4.2 Suspension System Layout

The WoodWorks Grille — Select system requires the suspension grid to be laid out so that every main beam aligns directly under each hanging backer on the panels being installed. Because hanging backer locations change based on panel length, main beam spacing must be adjusted accordingly. Refer to RCP and use the following guidelines to determine the correct grid layout.

4.2.1 Even-Length Panels (4', 6', 8', 10') (Fig 1)

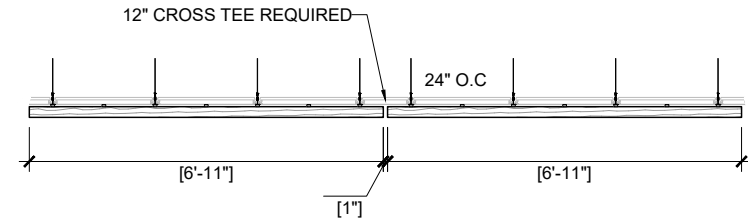
Space Main Beams (Item 7301) at 24" O.C. Install 24" Cross Tees (Item XL8320) at 90° every 24" O.C. to create a standard 24" x 24" grid module.



(Fig 1)

4.2.2 Odd Length Panels (3', 5', 7', 9') (Fig 2)

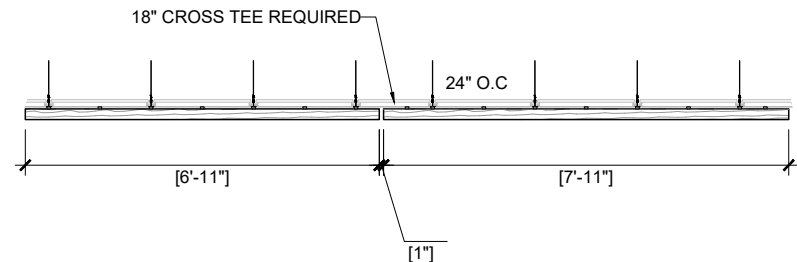
Space Main Beams (Item 7301) at 24" O.C., but transition to 12" O.C. at the joints where two panels meet. Use 24" Cross Tees (Item XL8320) for standard spans and 12" Cross Tees (Item XL7318) for the transition spans, creating 12" x 24" grid openings.



(Fig 2)

4.2.3 Even to Odd Transitions (Mix of Even and Odd Panel Lengths) (Fig 3)

Space Main Beams (Item 7301) at 24" O.C., but transition to 18" O.C. at the joints where two panels meet (Odd to Even or Even to Odd). Use 24" Cross Tees (Item XL8320) for standard spans and 18" Cross Tees (Item XL7398) for the transition spans, creating 18" x 24" grid openings.



(Fig 3)

4.3 Suspension System Installation

4.3.1 Suspension System Elevation

- Refer to the reflected ceiling plan (RCP) to determine the finished ceiling height.
- Add the overall height of the WoodWorks Grille — Select panel to determine the elevation of the suspension system.
- Be sure to include any infill panel weight when calculating total system weight. The WoodWorks Grille — Select panel height and weight are listed on the data sheet.

4.3.2 Install Wall Molding

Install wall molding (Item 7800) along the perimeter at the established suspension system elevation.

4.3.3 Lay Out the Suspension System

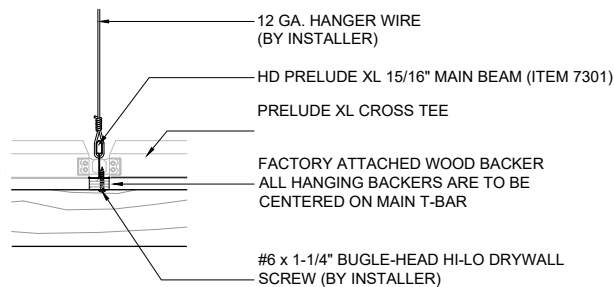
- Refer to the reflected ceiling plan to determine panel orientation and panel lengths.
- Ensure all hanging backers align directly with the main beams in the grid.
- The first main beam should be no more than 12-1/2" off the wall. All internal backers must be supported by main beam spaced 24" O.C. and adjust O.C. spacing if needed between panel-to-panel transition as detailed in Section 4.2. In addition to the above requirements, also follow ASTM C636 requirements.
- Additional cross tee can be installed in the system as needed for mechanical fixtures such as lights and speakers. Additional wires can also be required for support.

5. PANEL INSTALLATION

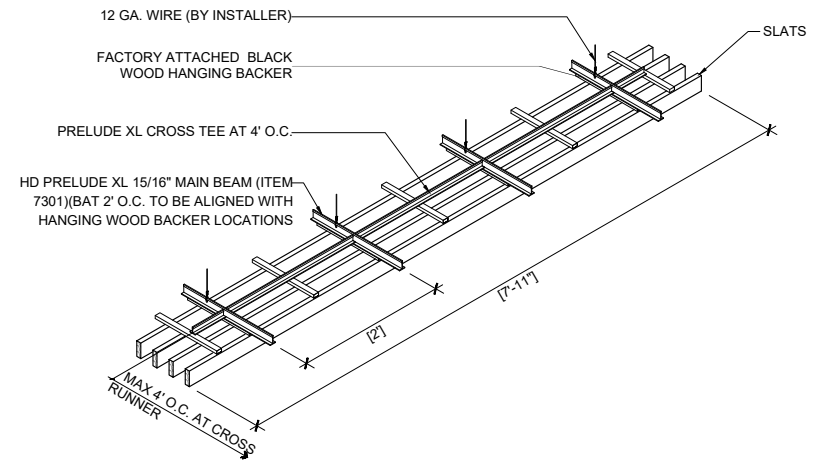
WoodWorks Grille — Select panels are installed with the panel length running perpendicular to the main beams, with the hanging backers aligned directly with the main beams.

5.1 Panel Attachment to Suspension System

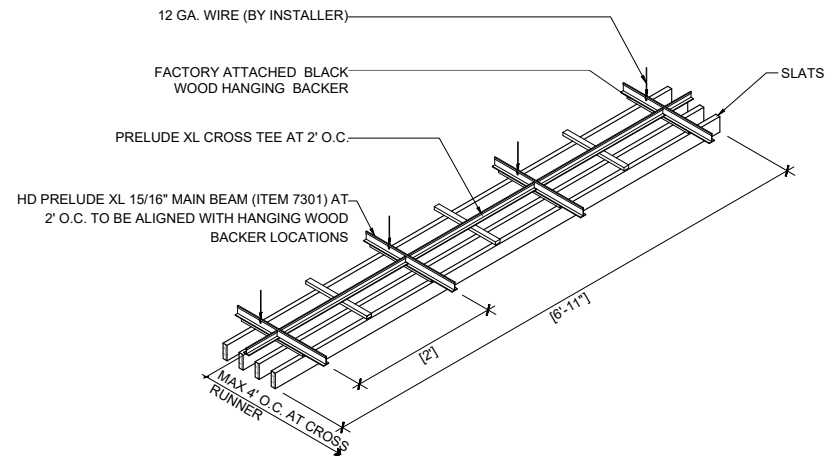
Panels are installed in sequence across the room. Each panel includes 7/8" backers that must be centered on the main beam and directly screw-attached to the suspension system (**Fig 4**). For even length panels, the hanging backers begin at the second backer in from the end of the panel and continue at 24" O.C. For odd length panels, the hanging backers begin at the first backer from the end of the panel and also continue at 24" O.C. (**Figs 5 & 6**).



(Fig 4)



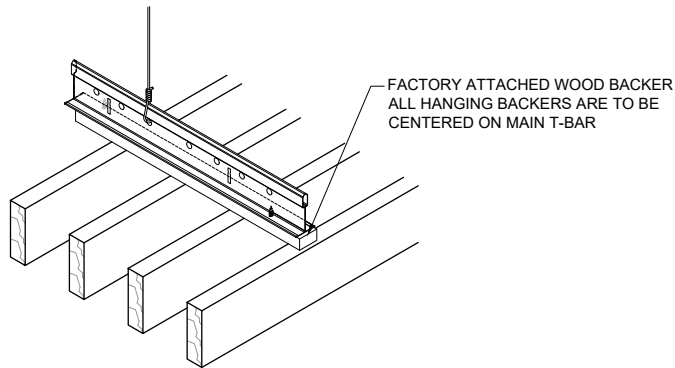
(Fig 5)



(Fig 6)

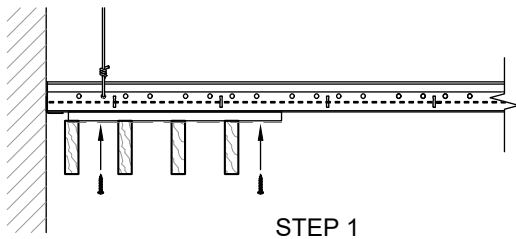
- Use standard #6 x 1-1/4" bugle-head hi-lo drywall screws
- Two screws are required per hanging backer

To ensure proper engagement with the grid flange, it is recommended to pre-drill 3/32" pilot holes in each backer and alternate the screw pilot hole so it falls on alternating side of the main beam once screw attached (**Fig 7**).



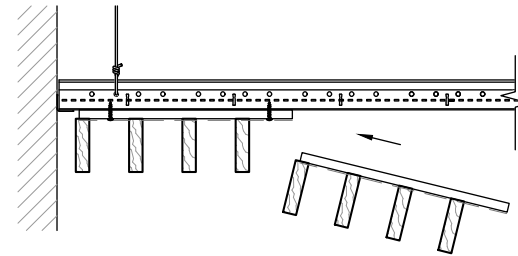
(Fig 7)

Begin at one wall, raise the panel into position against the suspension system. Align the backers directly over the main beam. Install first row of panels with the female side towards the wall. Verify the backers are center and properly aligned both lengthwise and at the short ends of the panel. Once properly positioned, fasten the panel to the grid (**Fig 8**).

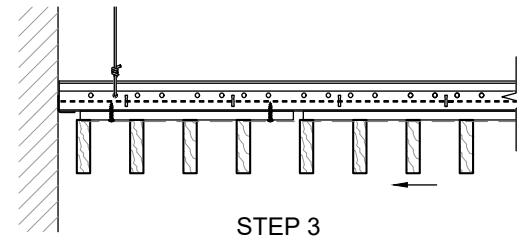


(Fig 8)

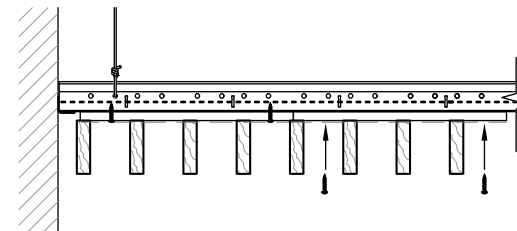
Continue installing panels across the room female-to-male (**Figs 9 – 11**).



(Fig 9)



(Fig 10)



(Fig 11)

NOTE: Panels with fleece require additional care during installation to ensure the fleece is neatly tucked in.

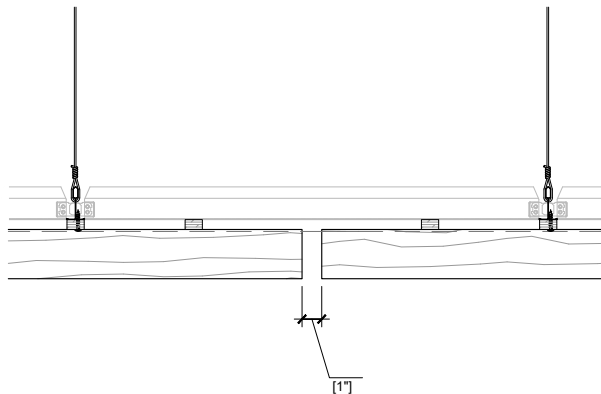
Installer Tip:

For panels specified with acoustical fleece backing, the fleece is installed between the grille slats and the backer panel. This configuration may partially obstruct visibility of the backer during installation. To ensure proper fastener placement and a clean finished appearance, the following best practices are recommended:

- Pre-drill pilot holes in accordance with the fastening requirements described above.
- Where feasible, create a small, localized slit in the fleece at each pre-drilled pilot hole. This allows the fastener to pass through the fleece and seat properly, while allowing the fleece to close around the fastener head for concealment after installation.
- Pre set fasteners into the backer panel prior to lifting and positioning the panel for installation efficiency.

5.2 WoodWorks® Grille — Select Reveal

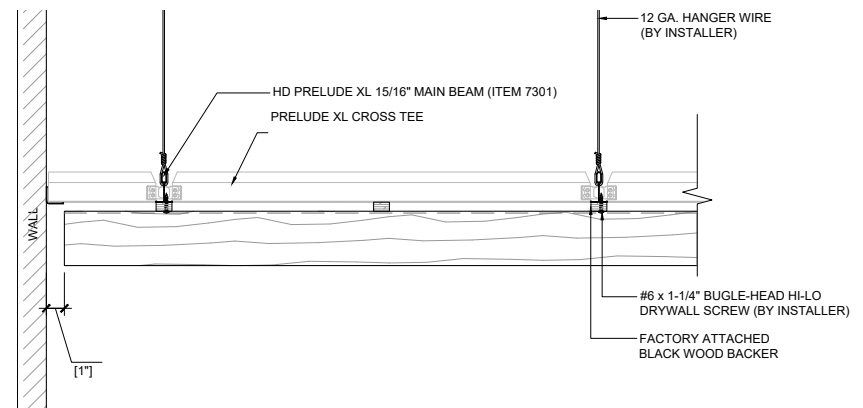
WoodWorks Grille — Select panels will have a 1" reveal between panel ends. This uniform spacing and alignment is maintained by the 15/16" suspension system (Fig 12).



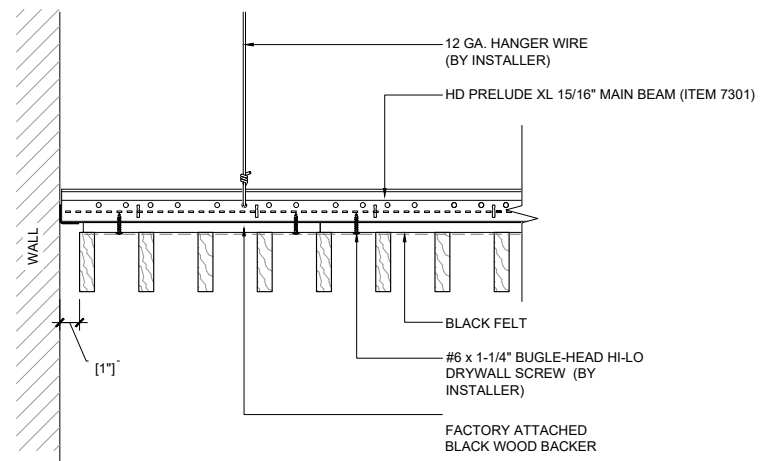
(Fig 12)

5.3 WoodWorks Grille — Select Border

Refer to the ceiling plan for border panel size and spacing. The border where the panel ends meet the wall should have allowance for a 1" border in the ceiling plan (Figs 13 & 14). Using a laser/dryline and/or 1" spacer to help maintain panel alignment and 1" spacing between panel ends is recommended.



(Fig 13)



(Fig 14)

NOTE: For panels with fleece, trim excess fleece at the short ends after reaching end of installation as needed to remove any excess material and achieve a clean finish.

6. MEP INTEGRATION

Mechanical fixtures such as lights, speakers, and sprinklers should be installed into the acoustical suspension system before installing the WoodWorks® Grille — Select panels. Fixtures can be installed at the suspension system height or flush with the bottom of the panel. Fixture weight or housing must be supported by the acoustical suspension system. Install additional cross tees for support, as needed. Refer to the ceiling plans for specific details. WoodWorks Grille — Select panels can be cut to fit around fixture openings. Use the WoodWorks Grille — Select stain, or paint exposed field-cut edges to match the panel finish.

7. CUTTING

When cutting WoodWorks Grille, normal woodworking tools, (e.g., jigsaw, circular saws, saber saws, coping saws, etc.) can be used along with 80 tooth blades (the more teeth the blade has the better). Penetrations for sprinklers (or other fixtures) can be accomplished by simple interruption of the wood slats at those locations or by using normal woodworking tools to cut access in the slats. Refer to Section 6, for instructions on special considerations that may need to be taken when field cutting panels.

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: 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: In case of irritation, flush eyes or skin with water for at least 15 minutes.

8. SEISMIC INSTALLATION

Seismic installation recommendations are based on engineering equivalency to previously tested WoodWorks Grille ceiling systems of similar configuration and weight. It is the sole responsibility of the project designer, architect, or engineer of record to verify that the proposed ceiling configuration, suspension system, and installation method comply with all applicable local building codes, including seismic design and restraint requirements for the project location.

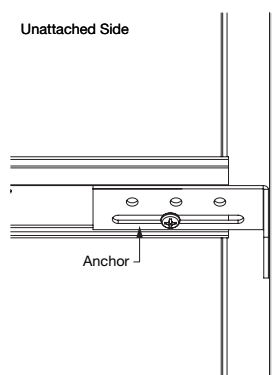
8.1 Suspension System Installation

Use a Heavy-Duty 15/16" Prelude® XL® T-Bar suspension system to support the WoodWorks Grille — Select panels as listed in Section 4.1 and 4.2. Installation shall, in all cases, conform to the requirements of the International Building Code (IBC) for Seismic Design Categories D, E, and F, as applicable.

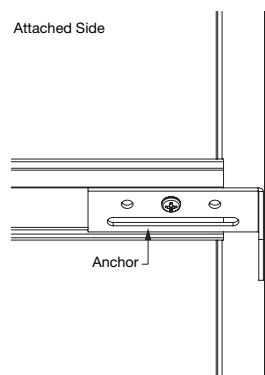
In addition to the requirements stated above, installation shall comply with ASTM C636. The requirements provided herein represent the manufacturer's minimum acceptable installation recommendations and may be subject to additional or more stringent requirements as established by the local authority having jurisdiction or the engineer of record.

8.1.1 Wall Attachment

All grid connections to the wall are required to use the Heavy-Duty Wall Anchor (Item 7100) in lieu of the BERC2 to meet the attached and unattached wall requirements (**Figs 15 & 16**).



(Fig 15)



(Fig 16)

For additional questions or support, please contact Techline.

MORE INFORMATION

For more information, or for an Armstrong 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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