

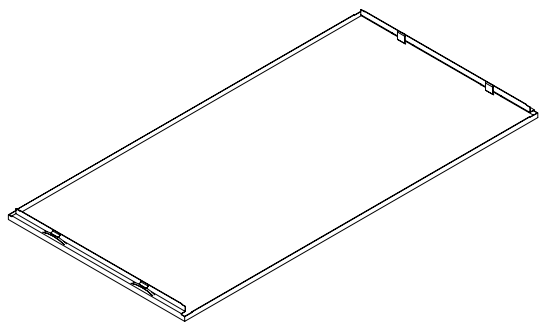
METALWORKS™ Clip-on

Installation Instructions

1. GENERAL

1.1 Product Description

MetalWorks Clip-on is a downward accessible aluminum ceiling panel available in standard 24" x 24" and 24" x 48" sizes. It is designed to install on a 15/16" Prelude® suspension system. All non-cut panels are 100% downward accessible without a special tool.



1.2 Standard Installation

MetalWorks Clip-on uses a standard 15/16" suspension system. The elements of the system include Prelude XL® 15/16" main beams along with standard Prelude XL cross tees. The installation shall in all cases conform to the requirements of the International Building Code and its referenced standards.

1.3 Surface Finish

MetalWorks Clip-on panels are pre-coated aluminum and available in six standard perforations or unperforated in standard Whitelume (WHA), Silverlume (SIA), Gun Metal (MYA), Satin Anodized (SAA), Lacquer Mill (LMA), and Brushalume (BAA) finishes. The perforated finishes have a black acoustical fleece factory-applied to the backside of the panel. Optional fiberglass (item 8200100) infill panel is available for increased sound absorption.

1.4 Storage and Handling

Ceiling panels shall be stored in a dry interior location and shall remain in cartons prior to installation to avoid damage. The cartons shall be stored in a vertical position. Proper care should be taken when handling to avoid damage or soiling.

NOTE: MetalWorks Clip-on panels may be packaged with the face of the panel toward the outside of the carton. Exercise care in moving and opening cartons to prevent damage to the panel face.

1.5 Site Conditions – Painted Panels

Areas to receive ceilings shall be free of construction dust and debris. Panels should only be installed in closed and acclimatized buildings. Interior systems cannot be used in exterior applications, where standing water is present, or where moisture will come in direct contact with the ceiling.

1.6.1 HVAC Design & Operation

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 supply air is properly filtered and the building interior is free of construction dust.

1.7 Plenum

Since panels are installed from below, MetalWorks Clip-on panels require no clearance above the suspension system. Panels never need to travel into the plenum space during installation or removal.

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

2. SUSPENSION SYSTEM

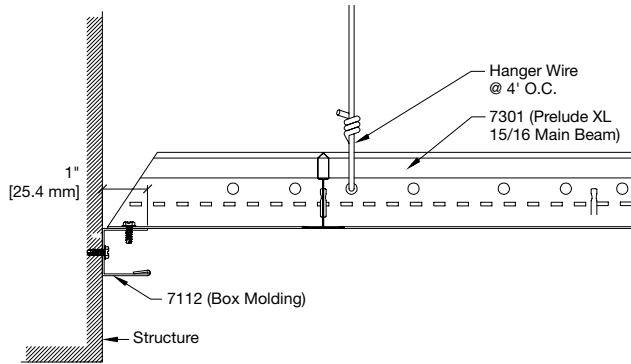
2.1 The suspension system shall be standard 15/16" exposed tee grid. The suspension system, whether new or existing, shall be properly installed and leveled using not less than 12-gauge galvanized steel wire. Suspension system installation shall conform to ASTM C636 requirements.

Hangers and bracing are to comply with all local code requirements. **The suspension system for all panel sizes must be leveled to within 1/4" in 10' and must be square to within 1/16" in 2'.**

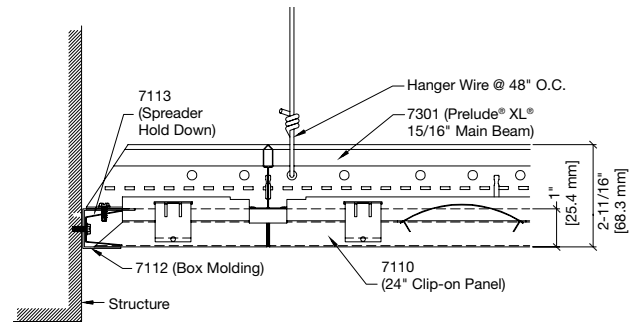
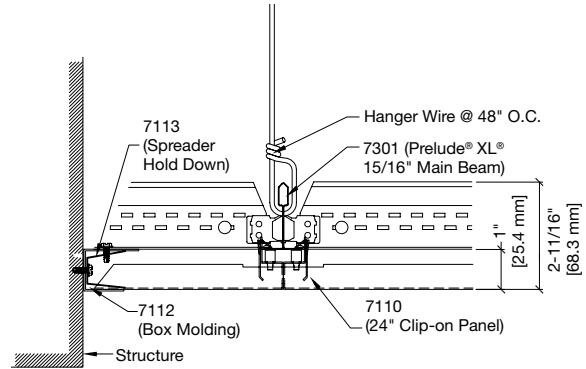
2.2 For 24" x 24" and 24" x 48" panels, the main beams shall be spaced 48" on center. Then 48" cross tees shall intersect the main beams at 90° every 24". For 24" x 24" panels, the 24" cross tees shall be installed at the midpoints of the 48" tees. Hanger wires shall be installed not more than 48" on center along the length.

2.3 Location of the first main beam shall be as detailed on the reflected ceiling plan, so as to provide borders that are equal in size and greater than one-half of the full panel width. Pay close attention when cutting this first main beam to length.

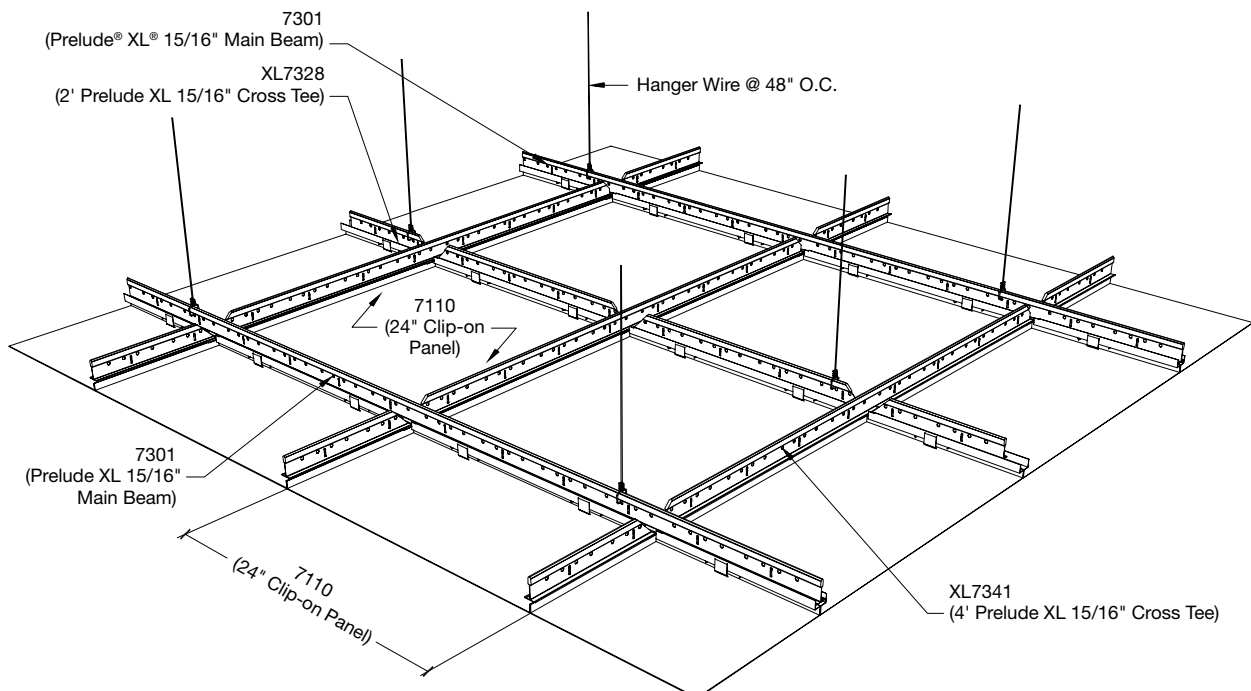
2.4 Wall perimeters are trimmed with item 7112 Box Molding attached with appropriate fasteners. The suspension system will rest on the upper 1" flange of the box molding and the panel edges will rest on the bottom 1" flange.



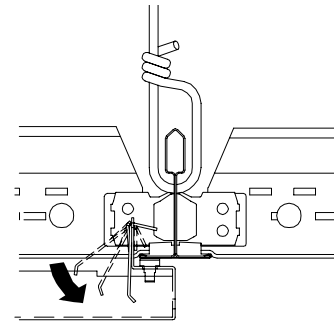
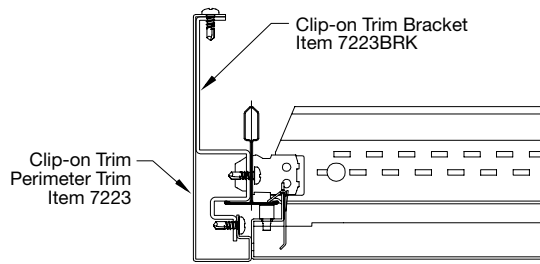
2.5 Cut edges are held down against the molding by inserting a 7113 Spreader Hold Down into the molding, between the upper and lower flanges, over each cut panel. The 7113 Spreader Hold Down is 10.625" long, so use the appropriate amount of hold downs for the panel edge dimension. (One hold down per 2 foot of panel edge.)



2.6 Floating Perimeters: The XL suspension layout for floating perimeters or cloud applications should be the same as what is detailed in Sections 2.1 - 2.5 for the specific panel sizes. Please note that main beams and cross tees need to be in place around the entire perimeter so perimeter trim can be attached to the suspension system. The perimeter trim is designed for straight perimeters and should not be curved.



Formed Perimeter Full Panel Trim (Item #7223)

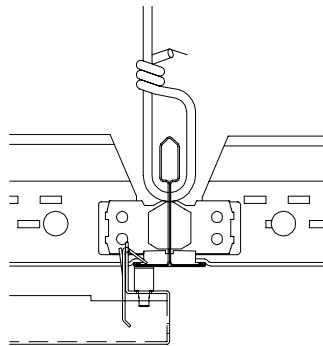


Gravity clip rotates back down after suspension system flange is cleared (spring is compressed)

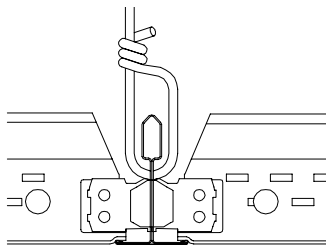
3. PANEL INSTALLATION

Panels are mechanically directional. Two opposite sides feature a set amount of gravity clips and springs that engage the main beam and retain the panel.

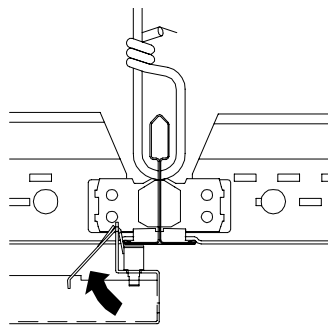
3.1 Lift the MetalWorks™ Clip-on panel up to the suspension system flange and press upwards. The panel will snap into place and the gravity clip will rotate back down and lock onto the suspension system.



Gravity clip locked onto suspension system under spring tension



Lift panel to suspension system flange



Gravity clip rotates to clear suspension system flange

3.2 Cut Panels

Cut panels should never occur within the field of the ceiling. All ceiling mounted services must either replace a full panel, install into a hole that is cut into a panel, or be mounted through the face of a panel.

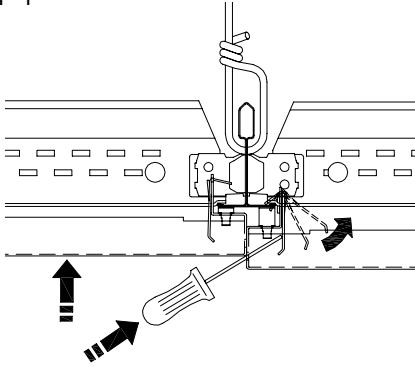
3.2.1 See MetalWorks Cutting Instructions LA-295518 for detailed information about cutting Armstrong metal ceilings. This document discusses the advantages and disadvantages of several types of equipment and how they are used when cutting Armstrong products.

3.3 Panel Removal

All panels are removable without moving up into the plenum. Look for the holes for removal.

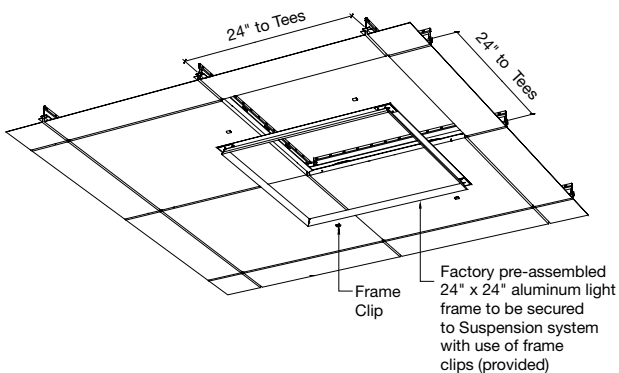
3.3.1 For panel removal, insert a pop rivet or finish nail at least 2" long that's less than the diameter of the hole. Push the pop rivet in to release the gravity clip. Repeat at all removal holes on the panel.

STEP 1



4. LIGHT FRAME INSTALLATION

Before the surrounding panels are installed, set the frame flush with the underside of the grid opening and attach the frame to the grid with frame clips. The frame clips should attach to grid sides that do not engage with the gravity clips and springs. The flush sides of the frame clips face toward the finished side of the ceiling.



The panel face sits 1" lower than the suspension system. In renovation applications, some lights and sprinklers may need to be height adjusted during retrofitting.

5. SEISMIC

MetalWorks™ Clip-on has been engineered and tested for application in all seismic areas when installed as indicated in these instructions.

ceilings.com/metalworks

MORE INFORMATION

For more information, or for an Armstrong representative, call 1 877 ARMSTRONG.

For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine™ services at 1 877 ARMSTRONG or FAX 1 800 572 TECH.

For the latest product selection and specification data, visit armstrong.com/metalworks.

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BPLA-297963-314

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