

# METALWORKS™ SecureLock™

## Installation Instructions

### 1. GENERAL

#### 1.1 Product Description

2' x 2' 18 gauge galvanized steel panels

#### 1.2 Surface Finish

Factory-applied powder-coated finish (post-coated)

#### 1.3 Perforations

Panels may be perforated or unperforated. Optional field installed acoustical infill pads are available for increased sound absorption.

#### 1.4 Storage and Handling

The 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 accordance with the instructions on the carton. Proper care should be taken when handling to avoid damage or soiling.

#### 1.5 Site Conditions

Review project scope and schedule with the general contractor and all subcontractors who must work above areas to be treated with security ceilings. Review work that must be completed prior to installation of the ceiling and work that may be completed after installation. All above ceiling work for plumbing, sprinklers, HVAC, and signaling must be completed before ceilings are installed.

Store all materials on site in unopened packaging away from contact with water and debris.

**⚠ CAUTION: SECURITY CEILING MATERIALS ARE HEAVY. USE APPROPRIATE EQUIPMENT AND MANPOWER TO AVOID INJURY.**

### 2. INSTALLATION

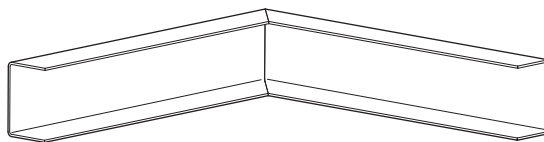
#### 2.1 Perimeter Channel

Install Perimeter Channel (5650) at the elevation defined in the construction documents. Use fasteners specified in the construction documents. Where no such specification is provided, use fasteners appropriate for the construction. Fastener spacing shall not be more than 16" on center on solid walls and at each stud for frame construction.

The perimeter connection should be able to support 1,000 lbs upward load applied anywhere along the panel edge within three inches of the Perimeter Channel.

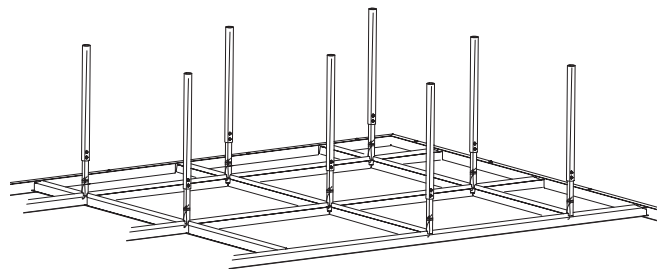
#### 2.2

Miter or butt all perimeter trim sections at corners. Do not overlap bottom flanges.



#### 2.3 Grid Installation

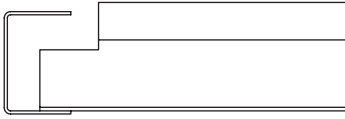
**2.3.1** Lay out the suspension grid as detailed on the reflected ceiling plan. Where no plan is provided, arrange the grid so that the perimeter panels will be equal in width on opposite sides of the space and greater than one-half the panel dimensions.



(See larger drawing on page 3)

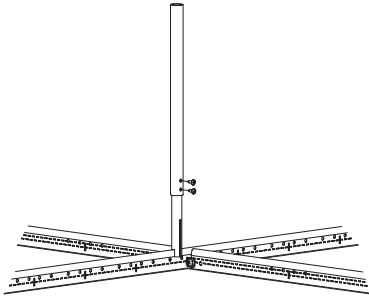
**2.3.2 Suspend Main Beams (7301)** as specified in the construction documents. When no wire gauge is specified, use minimum 9 gauge wires spaced 2' on centers for 2' x 2' panels and 4' on centers for 2' x 4' panels. Position wires carefully so that each will fall at a cross tee/main beam intersection and such that no grid module will contain more than two wires. Complete the suspension system work by installing 2' Cross Tees (XL8320) to complete the 2' x 2' or 2' x 4' module.

Cut the grid at end on an angle to fit under the Perimeter Channel.



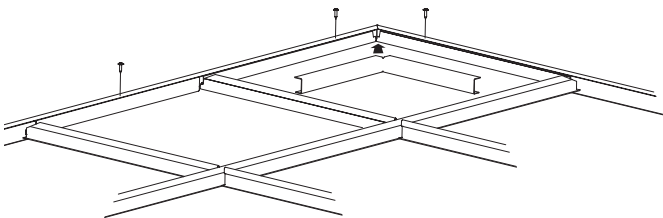
## 2.4 Compression Struts

Install a Compression Strut (5594) adjacent to each wire. Compression Struts consist of two telescoping sections of steel tubing. Extend these tubes so that the larger diameter one bears firmly against the overhead structure and the notch on the smaller diameter tube rests over the top of the main beam. Insert two Self-drilling Screws (5598) through the holes provided in the larger tube to fix the length of the Compression Strut. Secure the struts to the suspension wires by wrapping with 18 gauge steel tie wire. Position the tie wires such that they lay within the twists of the suspension wires so that the ties cannot slide down the posts.



## 2.5 Hold Down Clips and Border Panels

Hold Down Clips (5396) will be installed into each panel adjacent to the Perimeter Channel as work progresses. Insert the one Hold Down Clip in each border panel with the closed side facing away from the wall. Secure the Hold Down Clips to the channel by inserting a self-drilling screw down through the top leg of the channel and into the top leg of the clip. For corners, cut through the short legs of a Hold Down Clip at the midpoint and bend the clip to a 90° angle. Insert the open side of the clip into the channel and secure with one self-drilling screw on each leg of the clip.



## 2.6 Install Panels

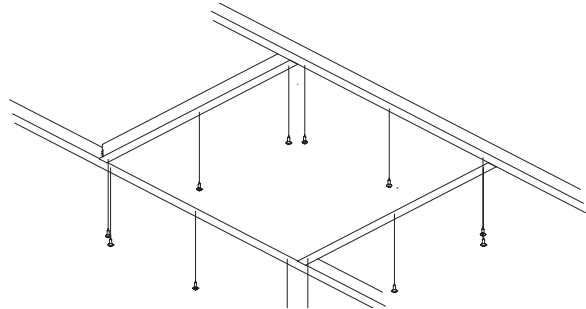
Begin the installation of panels away from the exit door to the space. Rip the perimeter panels to width as required. Push the panels into the grid from above until they fit firmly under the bulb of the grid. Secure the perimeter panels by inserting Hold Down Clips as described in section 2.5.

Continue installing panels progressively across the space. Where specified, install acoustical infills on the back side of the panels as the work proceeds. Cut and install the last panels before installing the Exit Panel.

**⚠ CAUTION: CUT EDGES OF METAL PANELS CAN BE EXTREMELY SHARP! HANDLE METAL CAREFULLY TO AVOID INJURY. ALWAYS WEAR SAFETY GLASSES AND GLOVES WHEN WORKING WITH METAL.**

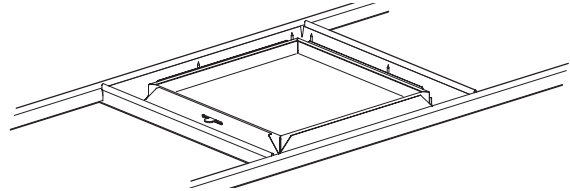
## 2.7 Exit Panel and Access Door

Install the Exit Panel (5965) last. This panel is usually positioned one panel away from the doorway for security monitoring. Lay the panel, with acoustical infill inside when specified, into the grid opening and secure it by inserting Security Screws (5596) through the face of the grid and into the panel. Use 12 screws for each 2' x 2' Exit Panel and 18 screws for each 2' x 4' Exit Panel.

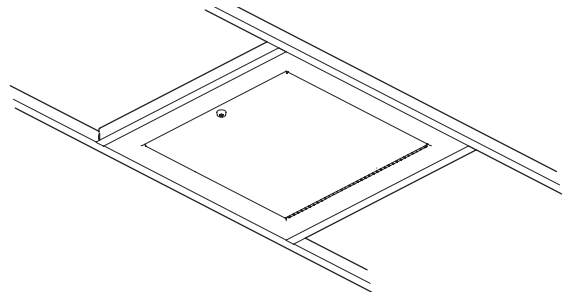


Exit Panel (from below)

Access Doors (5398) have panel edges that lock under the bulb of the grid.



Access Door (from above)

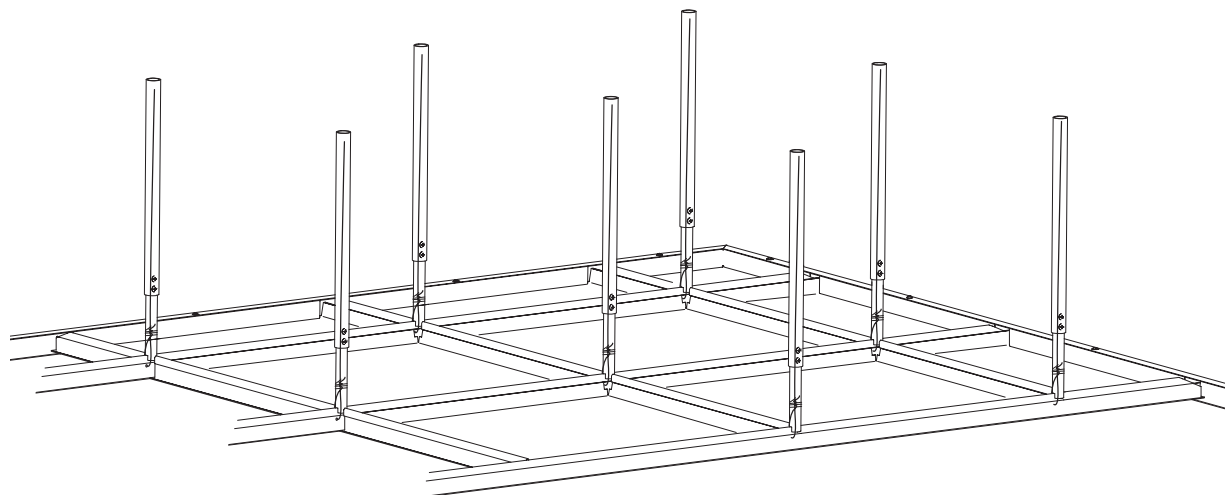


Access Door (from below)

### 3. TOUCH-UP AND CLEANING

Touch up scraps and dings with matching paint. Do not spray paint directly onto a plank. Dispense the paint into a cup and use a brush to apply it to the surface. Clean smudges and fingerprints with warm soapy water and a soft cloth.

### 4. INSTALLED SYSTEM



## MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 1 877 276 7876.

For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276 7876 or FAX 1 800 572 TECH.

For the latest product selection and specification data, visit [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks).

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