

METALWORKS™ SecureLock™ Plus

Installation Instructions

1. GENERAL INFORMATION

1.1 Product Description

12, 14 and 16-gauge galvanized steel planks available in 12", 18" and 24" widths and up to 10' lengths.

1.2 Surface Finish

MetalWorks panels are powder coated after forming (post coat).

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 subs 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.

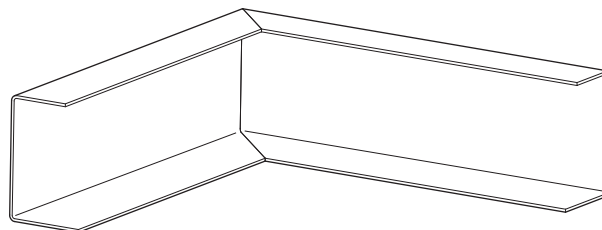
2. INSTALLATION

2.1 Perimeter Channel

Install Perimeter Channel (5397WH) 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 be not more than 12" on center.

For a 12, 14, or 16-gauge plank system, the perimeter connection should be able to support a 3,000 lb upward load applied anywhere along the panel edge within 3" of the perimeter channel.

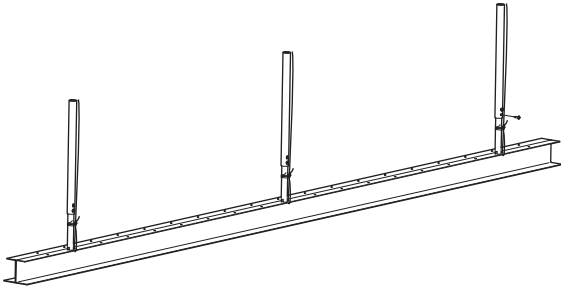
2.2 Miter or butt all perimeter trim sections at corners. Do not overlap bottom flanges.



2.3 Installations greater than one panel long require the use of Mid Span Struts (5593WH). Suspend these struts as specified in the construction documents. Where no suspension guidance is provided use minimum 9-gauge steel wire spaced not more than 4' on center.

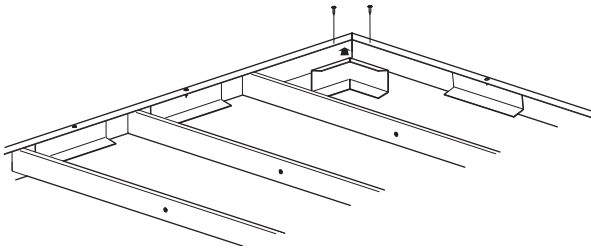
Compression struts consist of two telescoping sections of steel tubing. Extend these tubes to bear firmly against the overhead structure and the top of the Mid Span Strut. Insert two self drill screws (5598) through the holes provided in the larger tube to fix the length of the Compression Strut.

Secure the struts to the suspension wires by wrapping with 18-gauge steel tie wire. Position the ties to lay within the wraps of the suspension wires so that they cannot slip down the posts. Install a Compression Strut (5594) adjacent to each wire.



2.4 Hold Down Clips

Begin the installation of the planks away from the exit door. (See explanation for Exit Plank in section 2.8.) Install Hold Down Clips (5595) into planks adjacent to the Perimeter Channel as work progresses. Insert the Hold Down Clip with the closed side facing toward the wall. Space the clips 12 inches apart along the long side of the plank. Use one clip on each short side of 12" and 18" wide planks and two at each end of 24" wide planks. Secure the Hold Down Clips to the channel by inserting one self drilling screw (5598) down through the top leg of the perimeter trim into each clip. At corners, cut a notch out of the short legs of a Hold Down Clip at the midpoint and bend the clip to a 90° angle. Insert the closed side of the clip into the channel and secure.

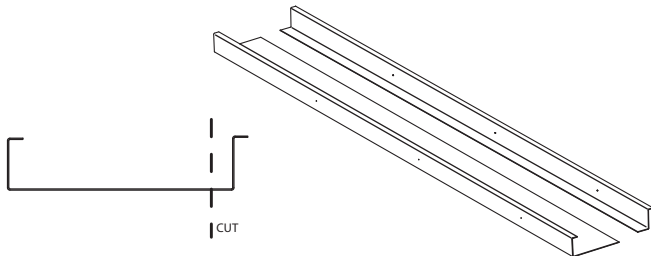


2.5 Install Planks

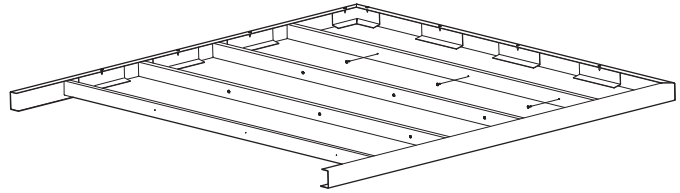
Rip the first plank to width as required by removing the outward turned edge. Cut the length to fit half way into the Perimeter Channel on each side.

⚠ CAUTION

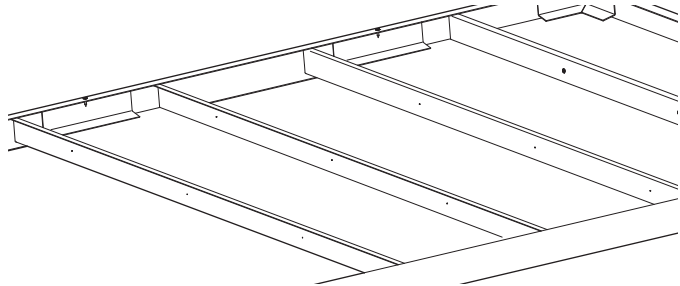
CUT EDGES OF METAL PANELS CAN BE EXTREMELY SHARP! HANDLE METAL CAREFULLY TO AVOID INJURY. ALWAYS WEAR SAFETY GLASSES AND GLOVES WHEN WORKING WITH METAL.



2.6 Secure the first plank by inserting Hold Down Clips as described in section 2.4. Continue installing planks securing each to the previous with Tek Screws (5598) at the pre-punched hole locations.



2.7 Where specified, install acoustical infill panels on the back side of the planks as the work proceeds. Cut and install the last perimeter plank before installing the Exit Plank. Remove the outward facing edge of this panel so the opening that remains for the exit panel is flanked by panels with inward facing edges on both sides.

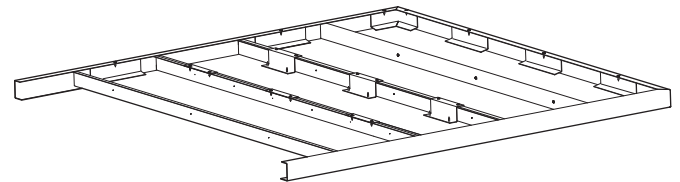


2.8 Exit Plank and Access Door

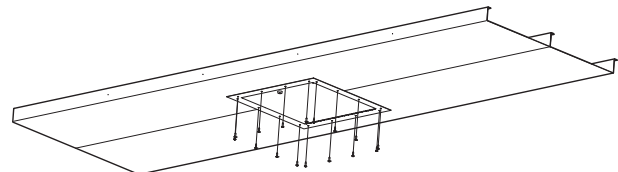
Install the Exit Plank last. Screw Z Clips (5599) to the top of the upturns on the planks adjacent to the exit plank location. Space Z clips 15 inches on center and attach with Tek Screw



Raise the Exit Plank into position and secure it in place with two Security Screws (5596) inserted into each Z clip.



Cut panels prior to installation in the ceiling for the Access Door. Secure with Security Screws (5596) through the face of the door flange and into the panel. Use 12 screws for each Access Door.

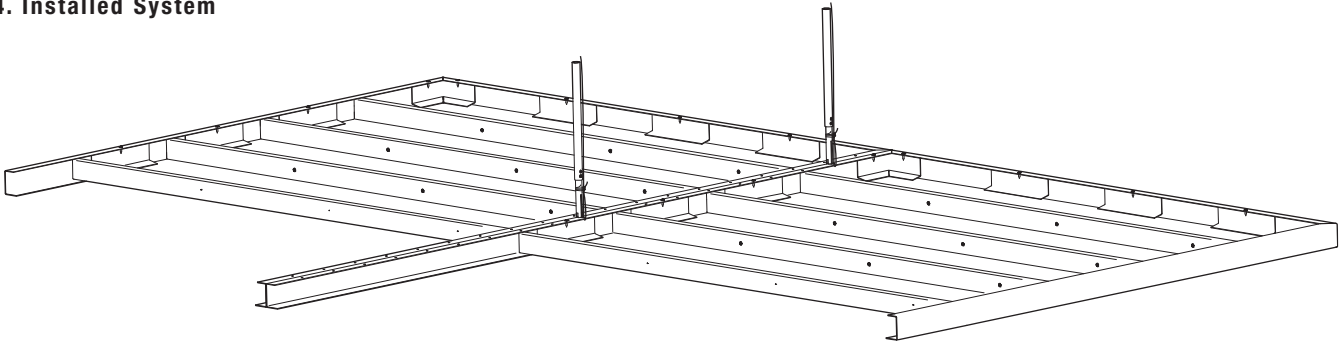


Access Door

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 representative, call 1 877 276 7876.

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

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

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