

Introduction

Enter **ILLUSIONS**[®] - Innovative ceiling designs brought to you by **USG Ceilings Plus**. In this manual we'll show you how to perform the installation the right way, the first time. Go ahead, install with a smile..

The purpose of this installation manual is to provide you with general steps and procedures on how to properly and safely install **ILLUSIONS**® ceiling systems as well as how to address various field conditions.

Please read this entire manual and familiarize yourself with all procedures before you begin. If you have been supplied with project drawings specific to your order, make sure you have a thorough understanding of those. Any details within those documents will supersede this manual. Work area must be clear of debris and obstacles to ensure a safe and fast installation.

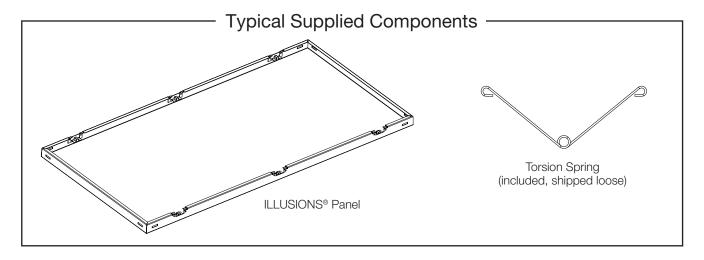
Please work safely!

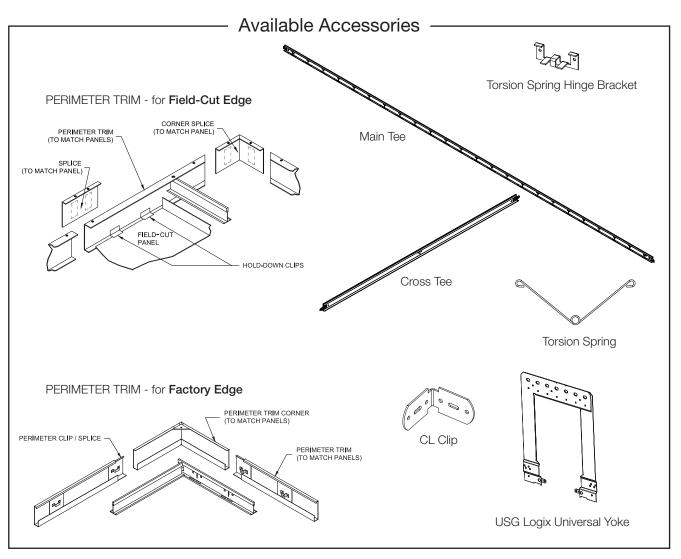
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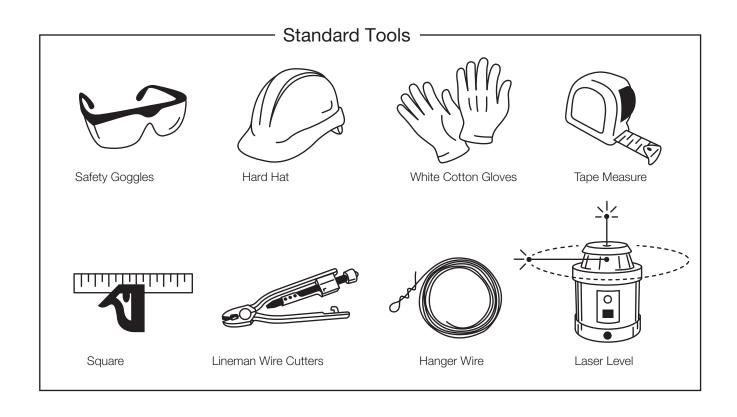
Preparation

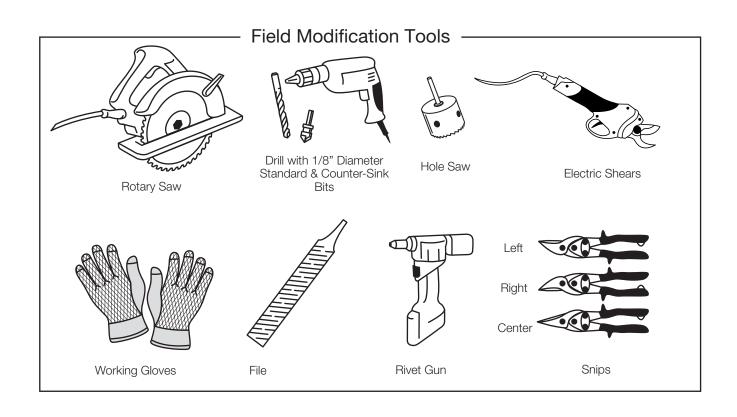
Component Identification





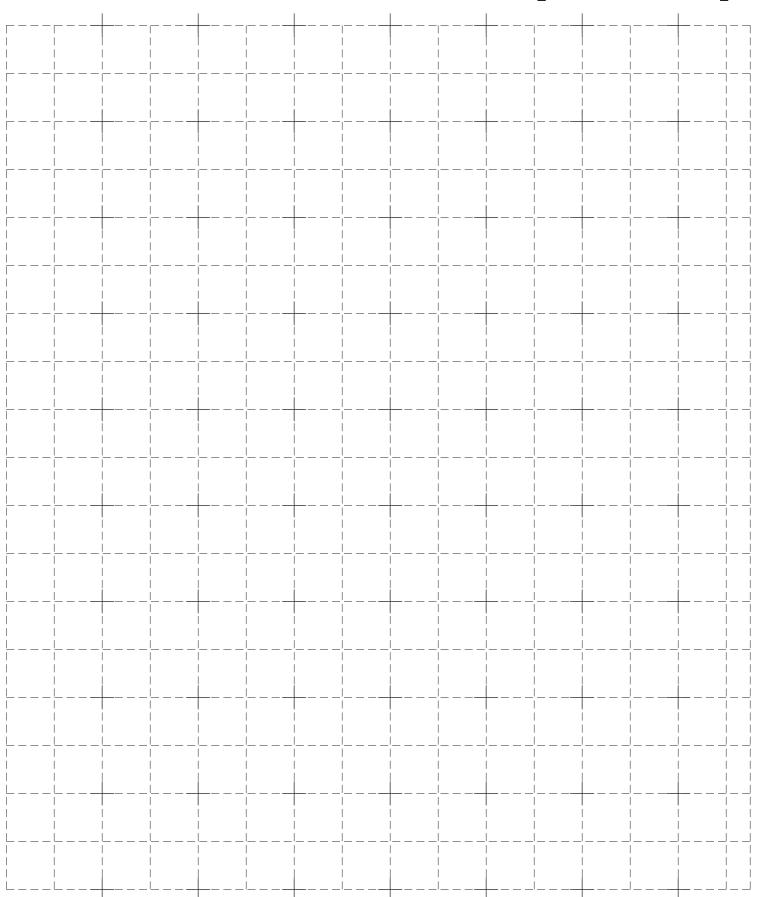
Preparation Tools





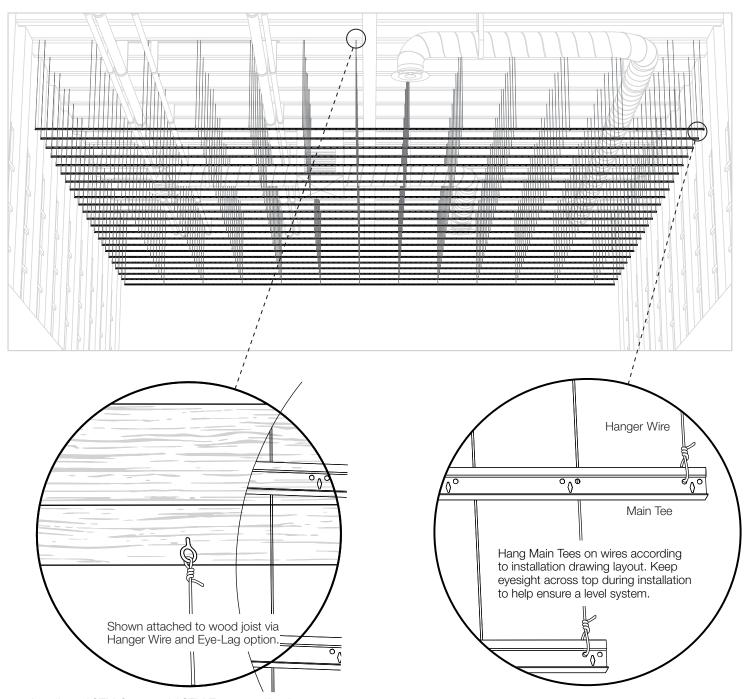
Grid Planning Blank Grid

Crosses @ 4'Q ,Dashed Lines @ 2'Q



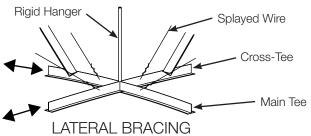
Grid Planning Blank Grid Crosses @ 4'C ,Dashed Lines @ 2'C

General InstallationInstall Hanger Wire & Main Tees

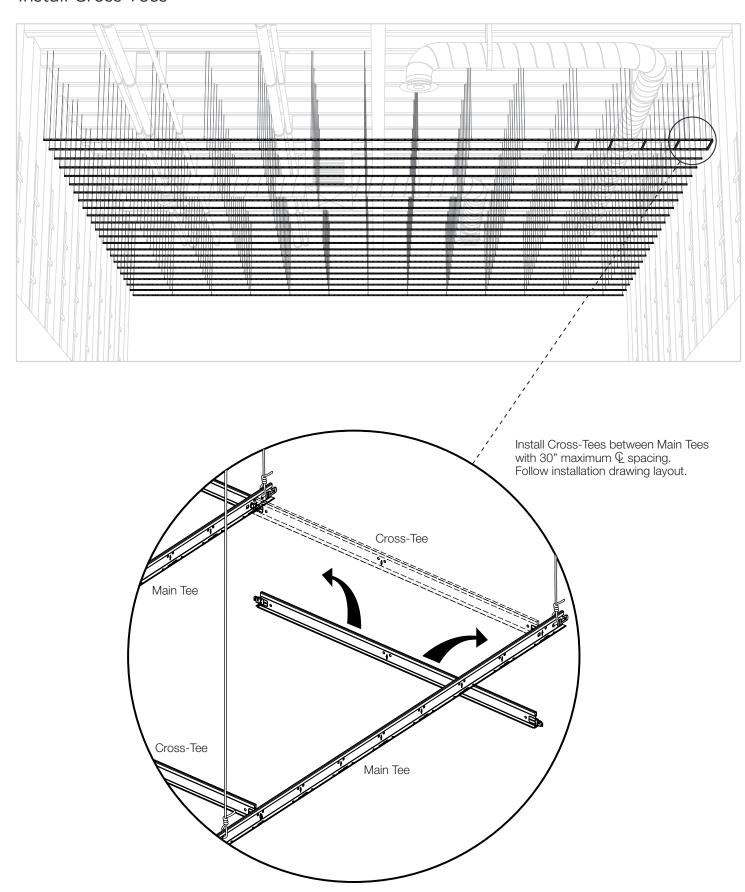


Install per ASTM C636 and ASTM E580 specifications. Select the correct fastener based on your field conditions, i.e. shot-in pin, anchor bolts, screw/clip, etc.

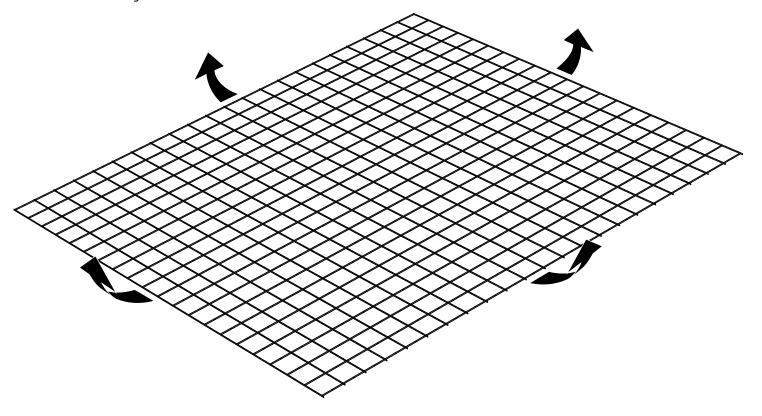
Install additional bracing required for project's seismic codes. Lateral bracing wires/compression posts. For lateral bracing, counter-splayed wires or diagonal bracing are required for each direction.



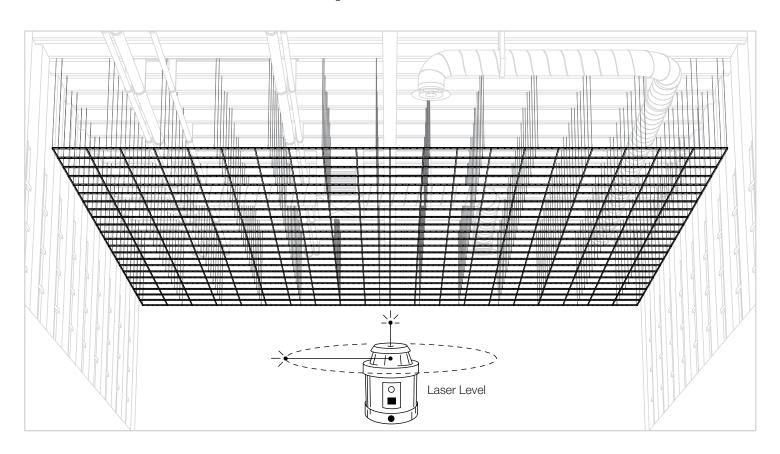
General InstallationInstall Cross Tees



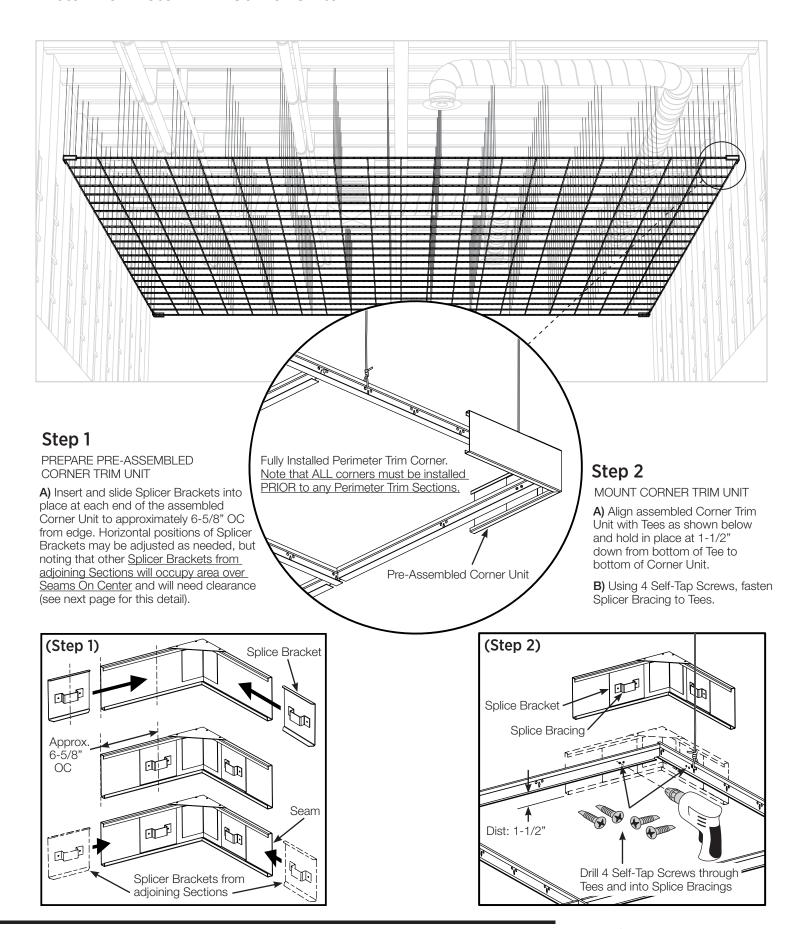
General Installation Level Grid System



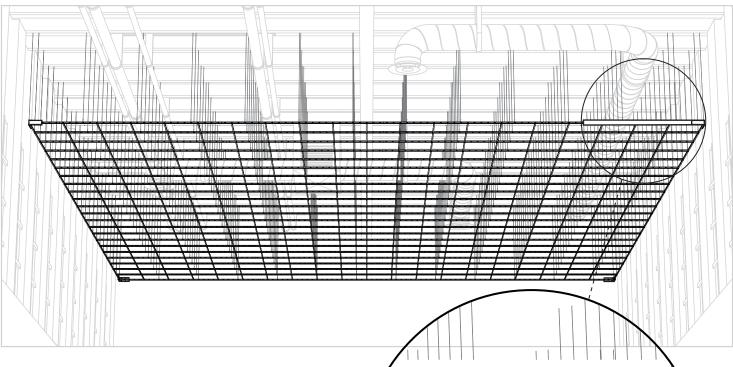
Use laser level to ensure whole grid is leveled to a 1/8" maximum variance.



General InstallationInstall Perimeter Trim Corner Units

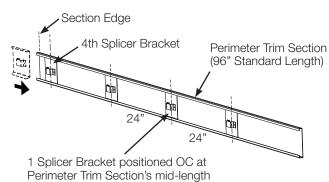


General InstallationInstall Corner-Adjacent Trim Sections

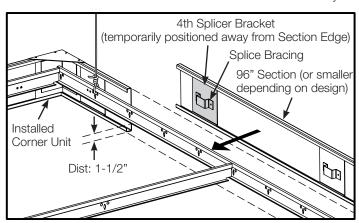


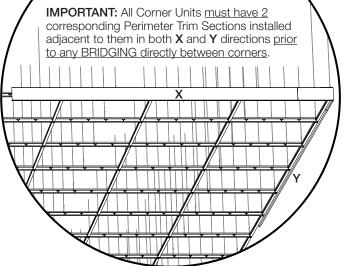
PREPARE PERIMETER TRIM SECTION

A) Insert 3 Splicer Brackets and slide into place with 1 positioned at center of Trim Section's total length and 1 on each side of it, spaced at 24" OC. Insert a 4th bracket, temporarily positioning it in and away from the Section Edge during alignment with Tees/Grid.

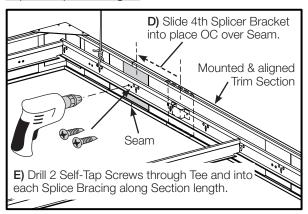


B) Align Perimeter Trim Section with Tee and hold in place at 1-1/2" down from bottom of Tee to bottom of Trim Section body.

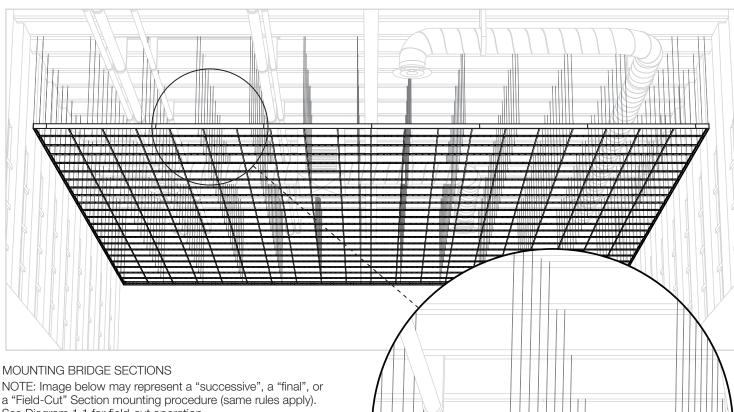




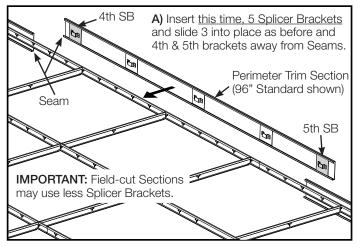
C) Fasten Splicer Bracing to Tees. <u>Horizontal position</u> of all Splicer Brackets may be adjusted as needed. Repeat Steps A through E on **X** & **Y** at all corners.

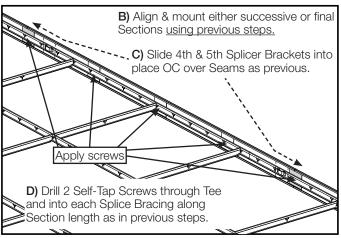


General Installation Install Successive & Final Trim Sections

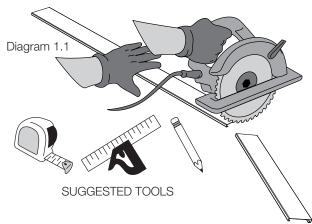


a "Field-Cut" Section mounting procedure (same rules apply). See Diagram 1.1 for field-cut operation.

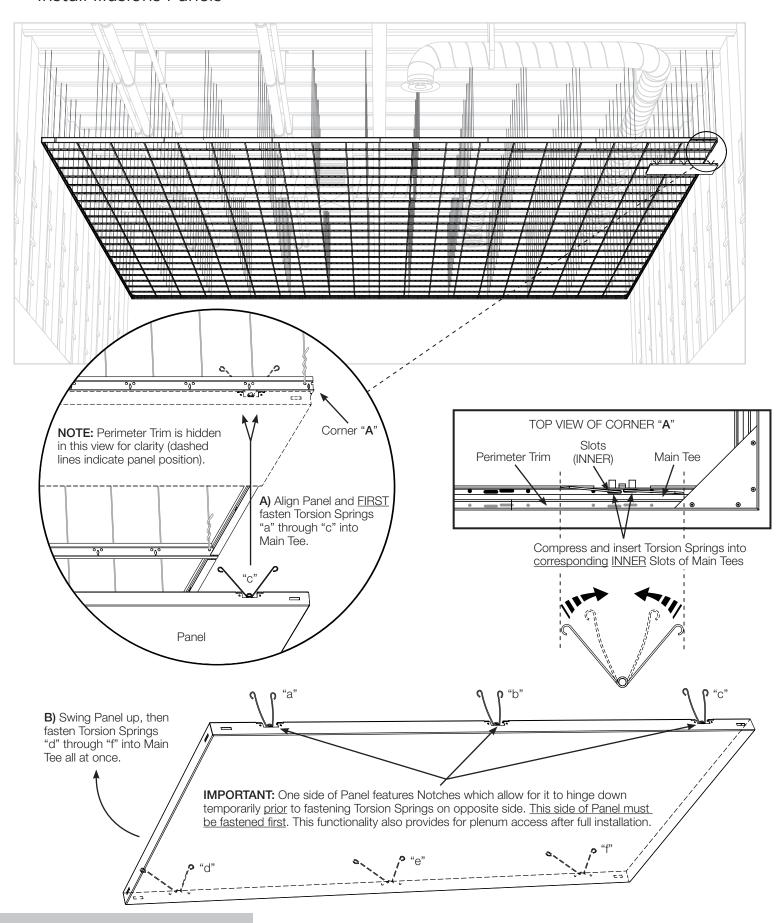




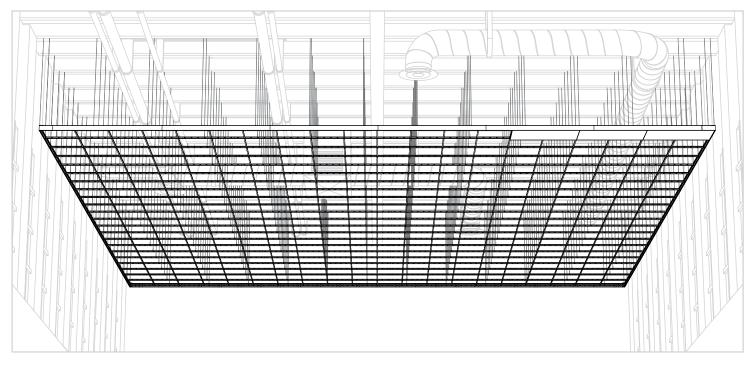




General Installation Install Illusions Panels



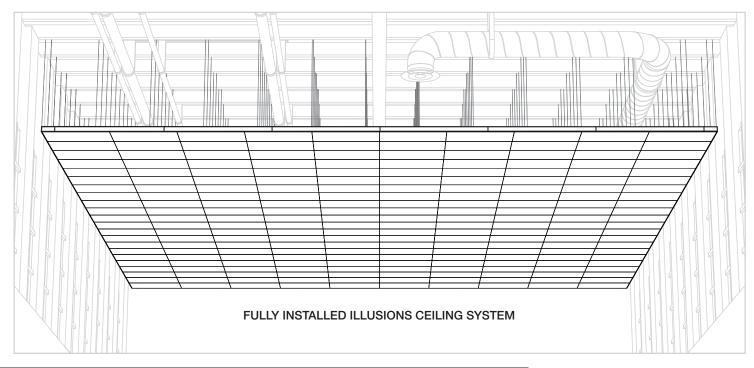
General InstallationInstall Remaining Illusions Panels



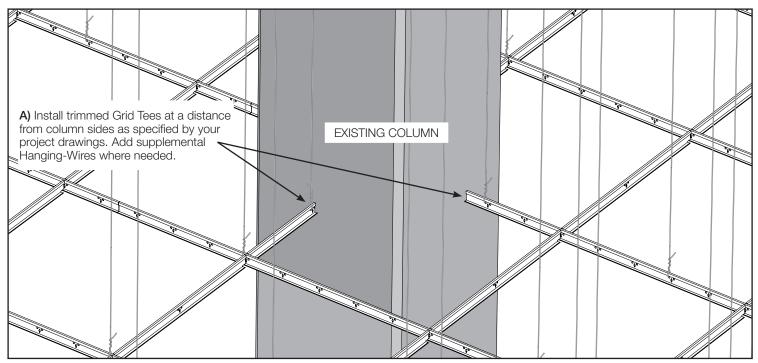
- C) Continue installing <u>all successive Panels adjacent to Perimeter Trim</u> using previous procedures.
- **D)** Once <u>all</u> perimeter-adjacent panels have been installed, proceed with with next round of panels, working inward towards center. **NOTE:** It is important to work from perimeter to center, to prevent fastening of Torsion Springs to incorrect Slots. Working inward will make clear which row of slots is next.

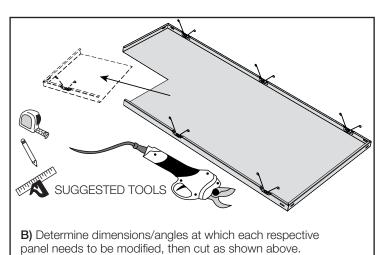
E) INSPECT INSTALLATION:

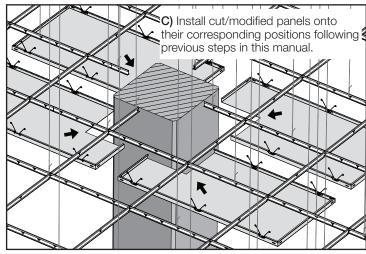
- Make sure all hanging-wire and supports are properly connected.
- Make sure grid is leveled.
- Check for any scratches and smudges and address accordingly.
- Sign off.

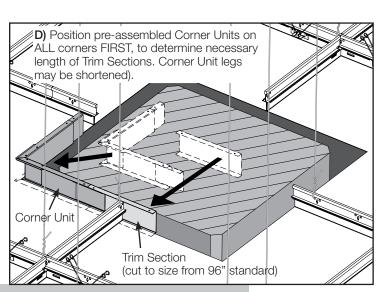


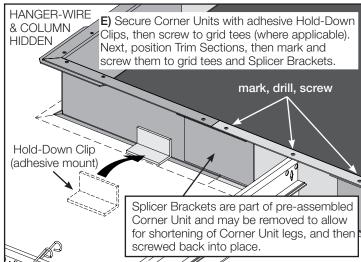
Perimeter Conditions Column Integration



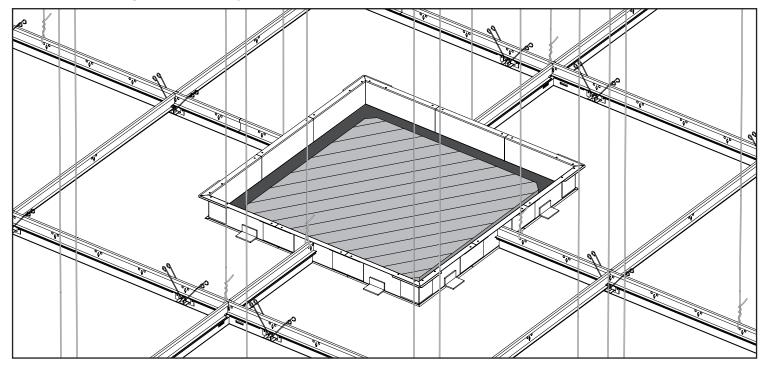




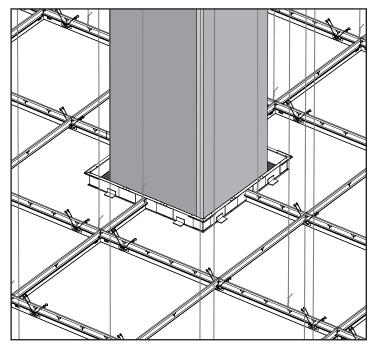




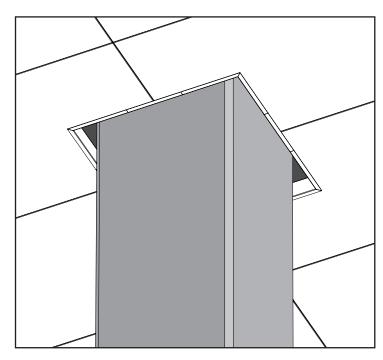
Perimeter ConditionsColumn Integration Completed



COMPLETED TRIM INSTALLATION

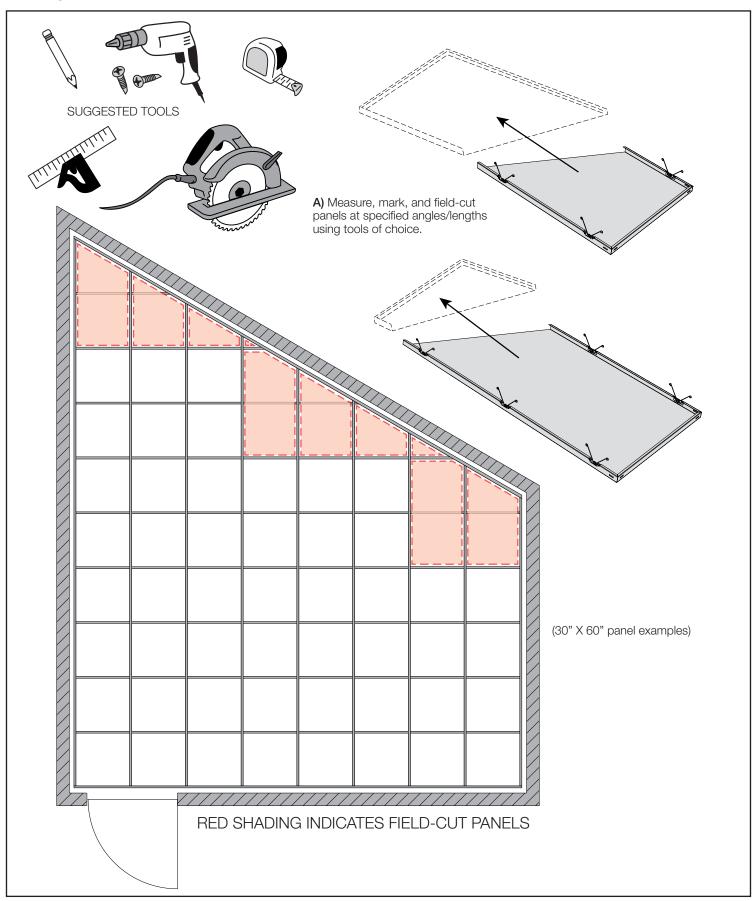


VIEW FROM PLENUM

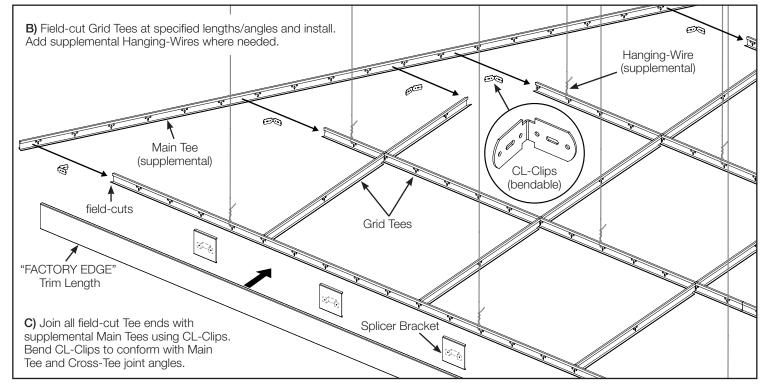


VIEW FROM FLOOR

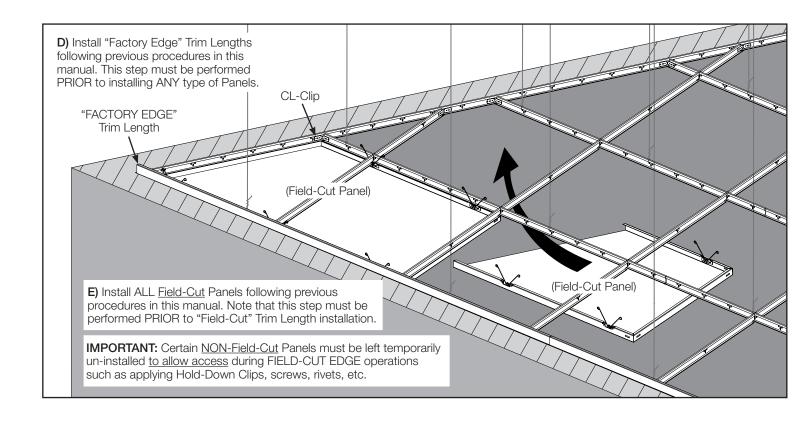
Perimeter Conditions Angled Wall Condition



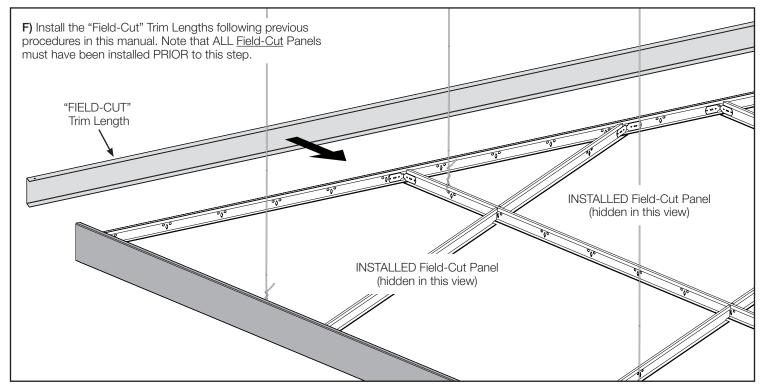
Perimeter Conditions Angled Wall Condition Cont'd.



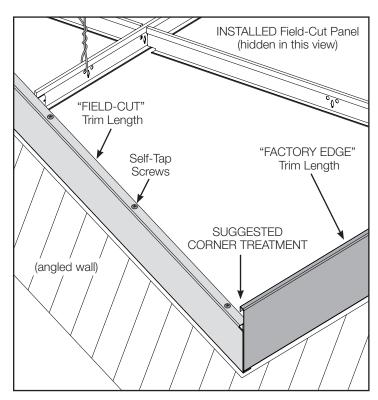
WALLS ARE HIDDEN IN THIS VIEW FOR CLARITY



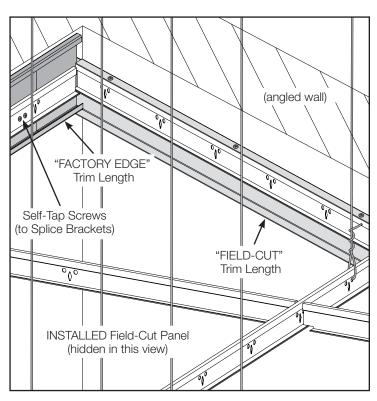
Perimeter Conditions Angled Wall Condition Cont'd.



WALLS HIDDEN IN THIS VIEW FOR CLARITY

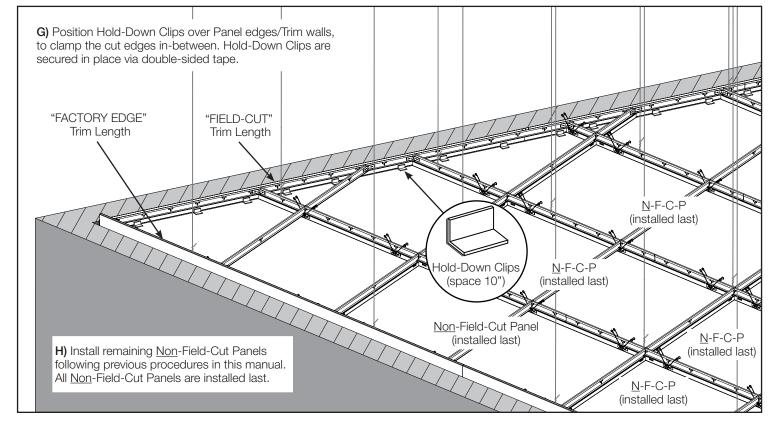


OUTSIDE CORNER VIEW FROM PLENUM

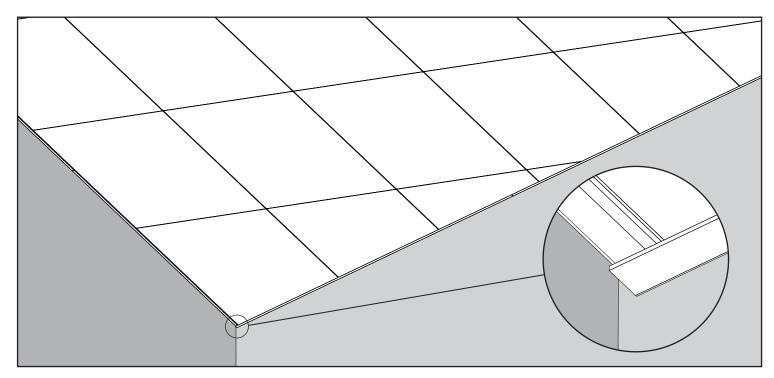


INSIDE CORNER VIEW FROM PLENUM

Perimeter Conditions Angled Wall Condition Completed

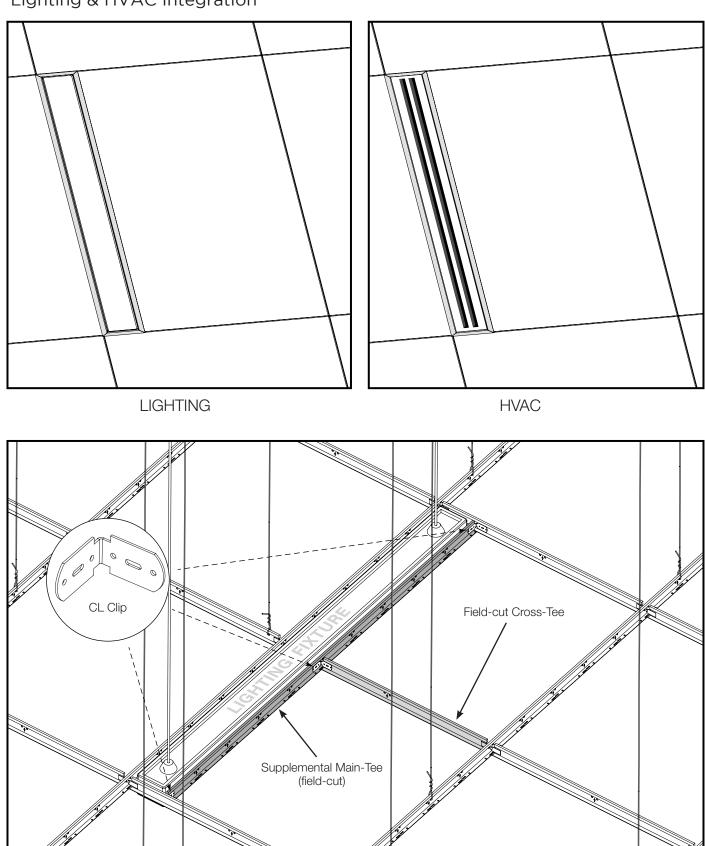


COMPLETED INSTALLATION (view from plenum)



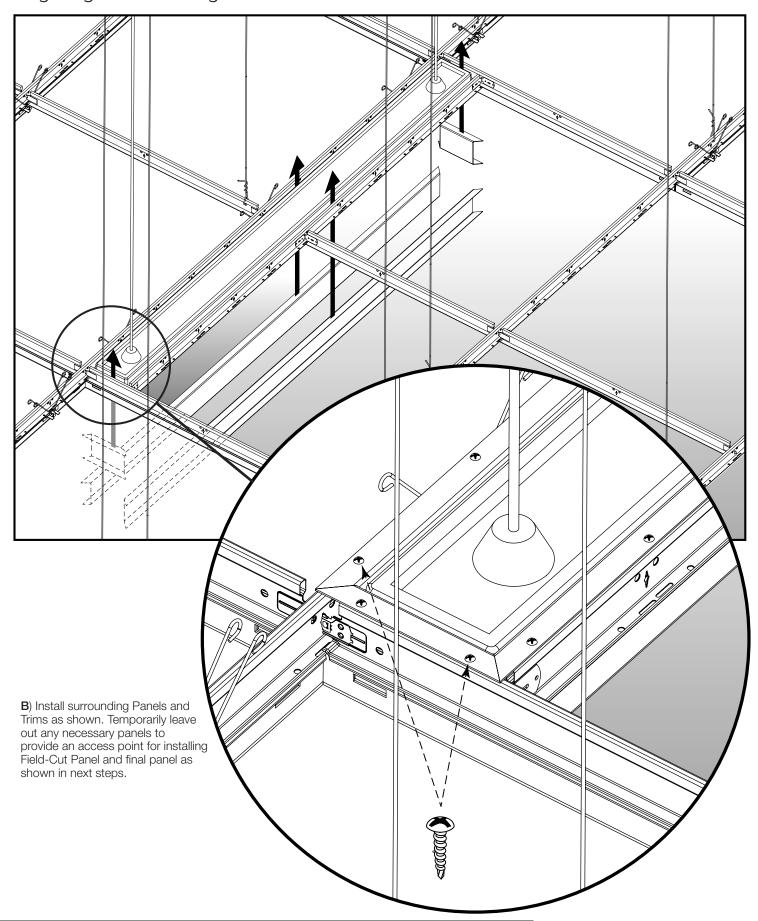
COMPLETED INSTALLATION (view from floor)

MEP IntegrationLighting & HVAC Integration

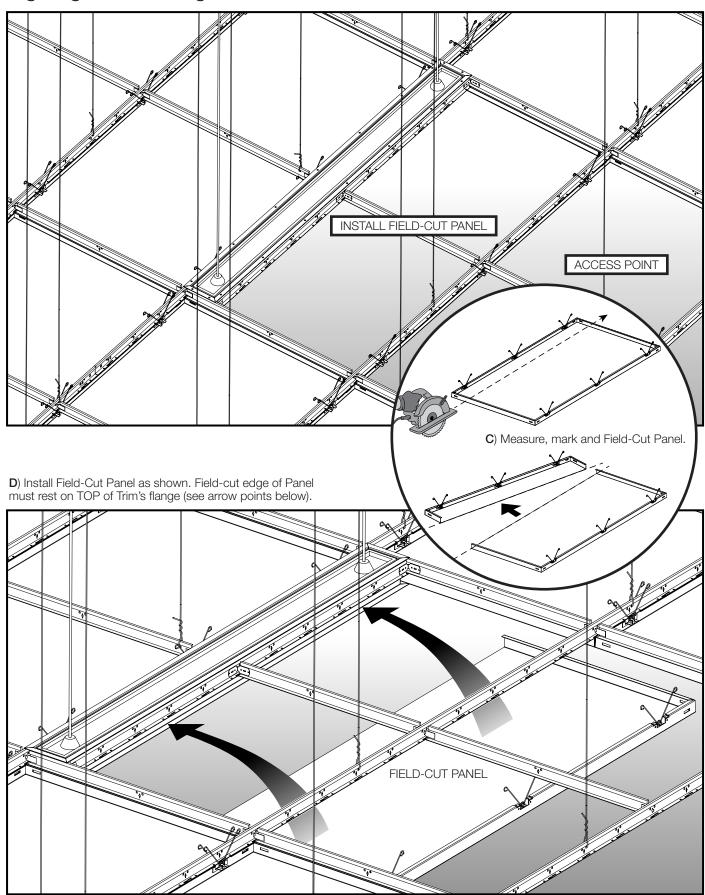


A) Install Supplemental Main Tee and field-cut Cross-Tee. Replace/add any Hang-Wires.

MEP Integration Lighting & HVAC Integration

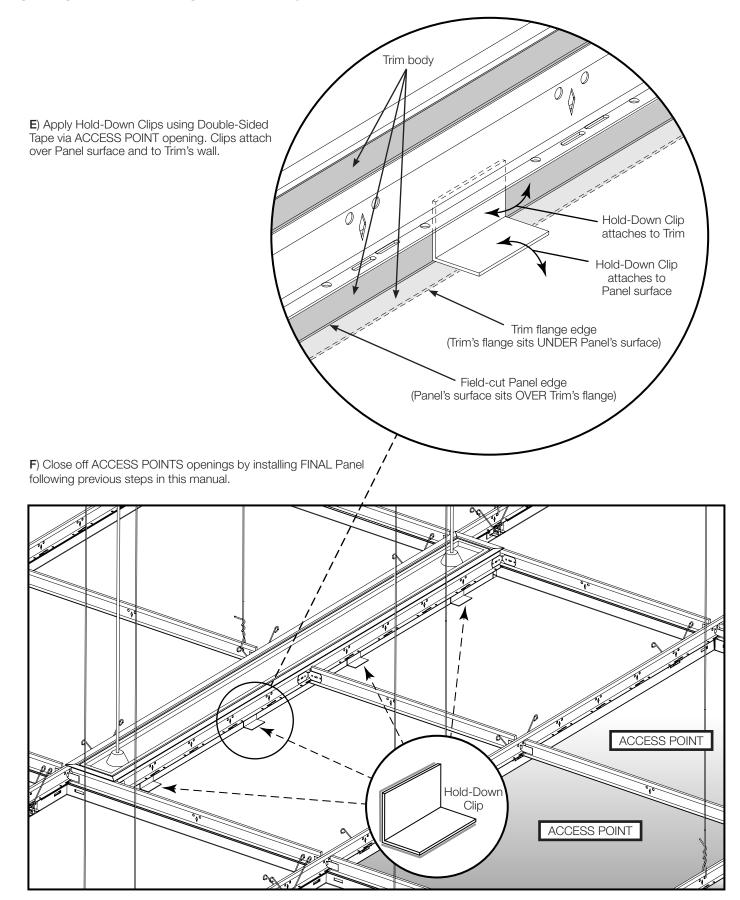


MEP IntegrationLighting & HVAC Integration



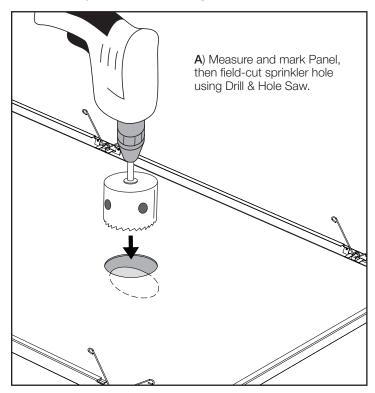
MEP Integration

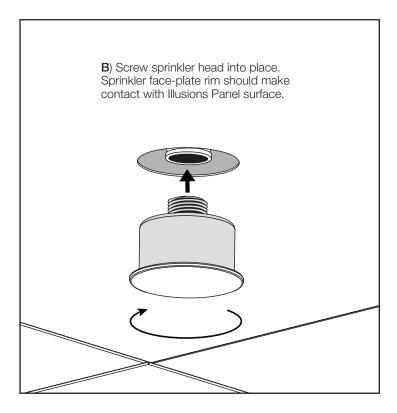
Lighting & HVAC Integration Completed

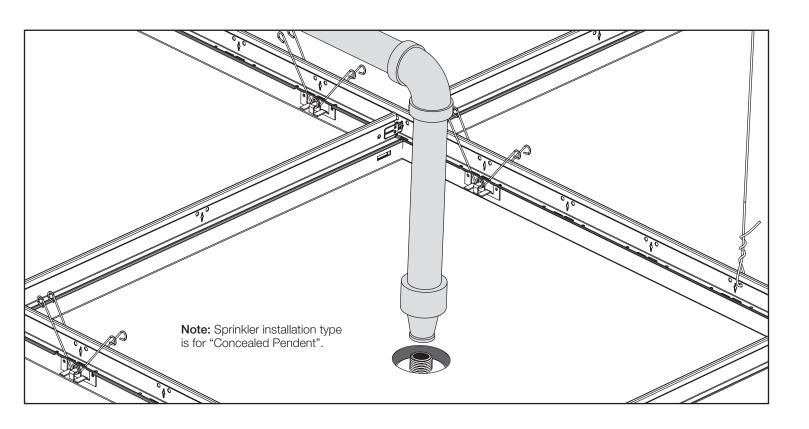


MEP Integration

Fire Sprinklers Integration

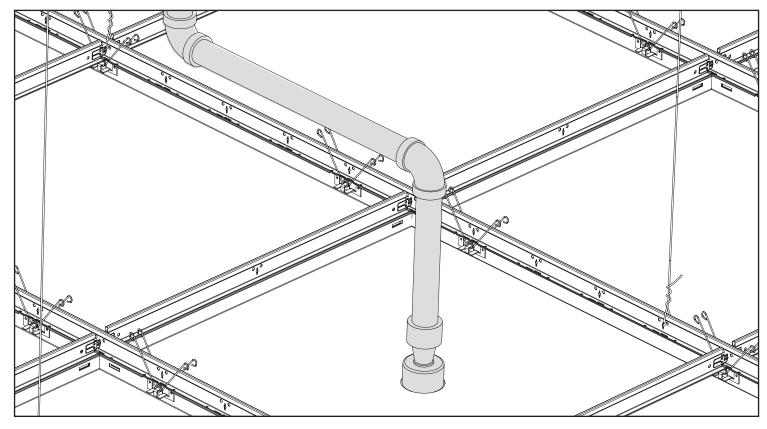




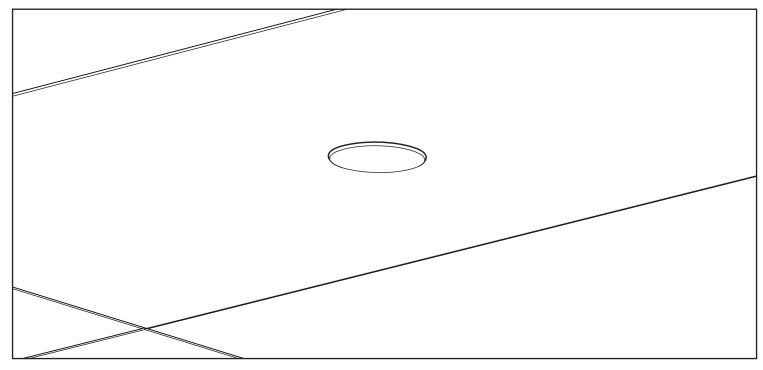


MEP Integration

Sprinkler Integration Completed



COMPLETED INSTALLATION (view from plenum)



COMPLETED INSTALLATION (view from floor)

Maintenance Adjust & Clean

- **A.** Adjust ceiling components to provide a consistent finish and appearance in conformity with established tolerances and requirements.
- **B.** Clean exposed surfaces of acoustical metal panel ceilings and walls. Comply with manufacturer's written instructions for cleaning and touch-up of minor finish damage.
- **C.** Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented and bent units.

SupportContacts

Contact your sales rep for any additional support.

Notices

SAFETY

Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation. Be cautious with exposed sharp edges when handling ceiling system components.

INSTALLATION

Prior to installation, make sure your project complies with any seismic & non-seismic requirements. Must be installed in compliance with ASTM C636, ASTM E580, utilizing standard industry practices and adopting applicable code requirements. Alternative assemblies and installation methods may be utilized when approved by the authority having jurisdiction. USG Ceiling Plus recommends checking with the authority having jurisdiction prior to designing and installing a suspended ceiling system.

LIMITATION

Some commercially acceptable color variation may occur between lots and between different size products of the same color.

LIABILITY

We shall not be liable for any incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions of for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Notes

Notes

