

Introduction

Enter ILLUSIONS® + GLOW™ a new lighted ceiling design 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, with confidence.

The purpose of this installation manual is to provide you with general steps and procedures on how to properly and safely install the ILLUSIONS® + GLOW™ ceiling system and 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.

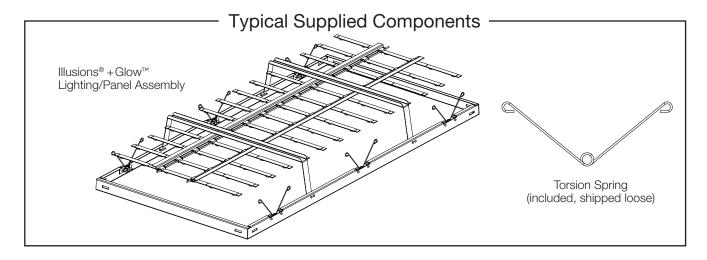
Please work safely!

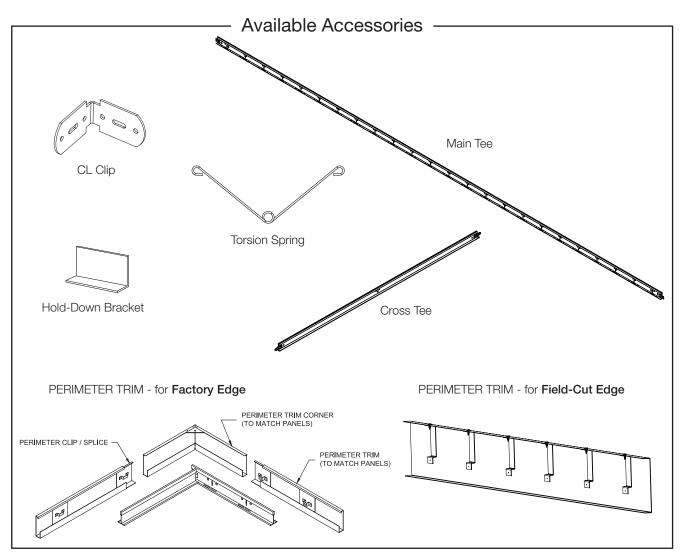
Table of Contents

Preparation	
Component Identification	1
Tools	2
General Installation	
Install Hanger Wire & Main Tees	3
Install Cross-Tees	4
Level Grid System	5
Installing Light/Panel Assemblies	6
Light Drivers and Panel Wiring	7
Light Drivers Installation	8
Panel Layout	9
Install Perimeter Trim Corner Units	10
Install Corner-Adjacent Trim Sections	11
Plenum Accessibility	12
Field-Cut Options	13
Field-Cut Options	
Adding Cross-Tee Post Field-Cut	15
Adding Perimeter Trim Post Cross-Tee Addition	
MEP Integration	
Fire Sprinklers Integration	17
Sprinkler Integration Completed	
Maintenance	
Adjust & Clean	19
Support	
Contacts	19
Notices	
	20

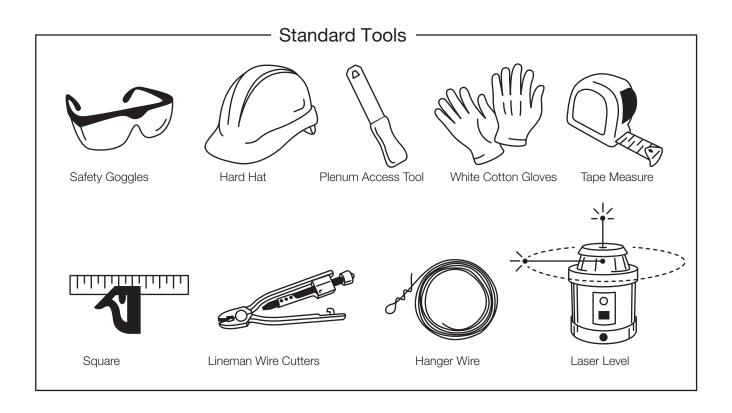
Preparation

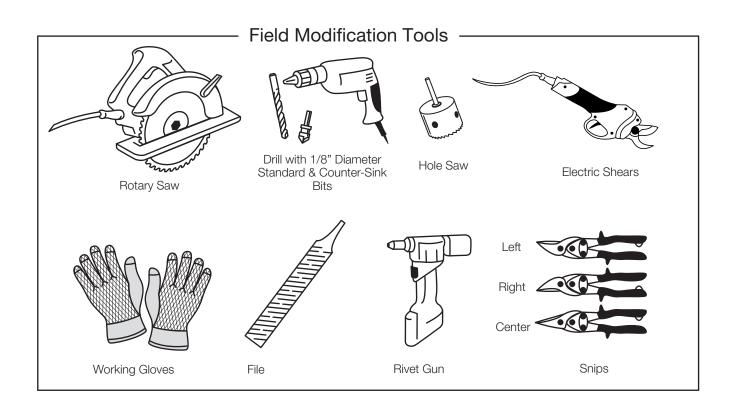
Component Identification



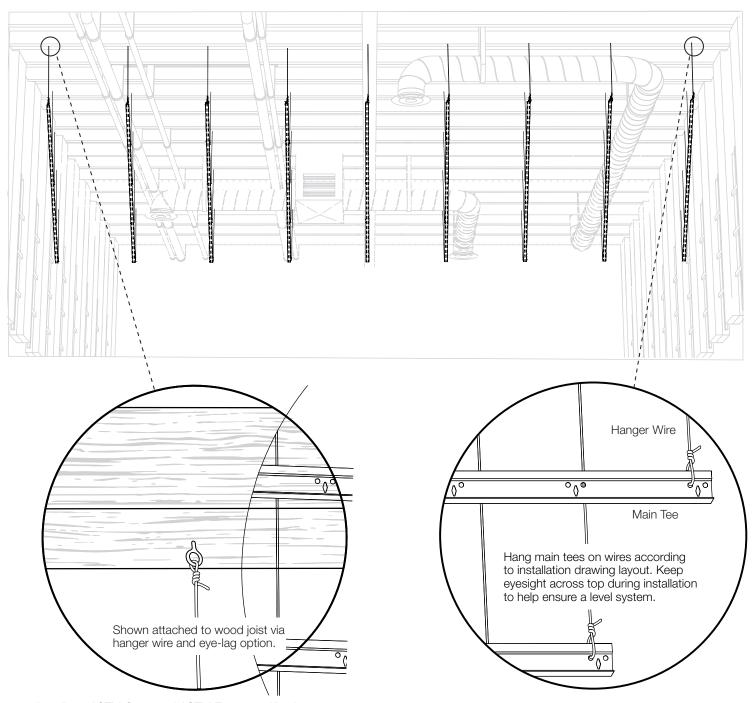


Preparation Tools



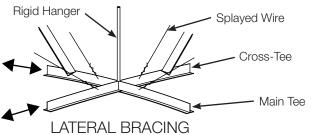


General InstallationInstall Hanger Wire & Main Tees

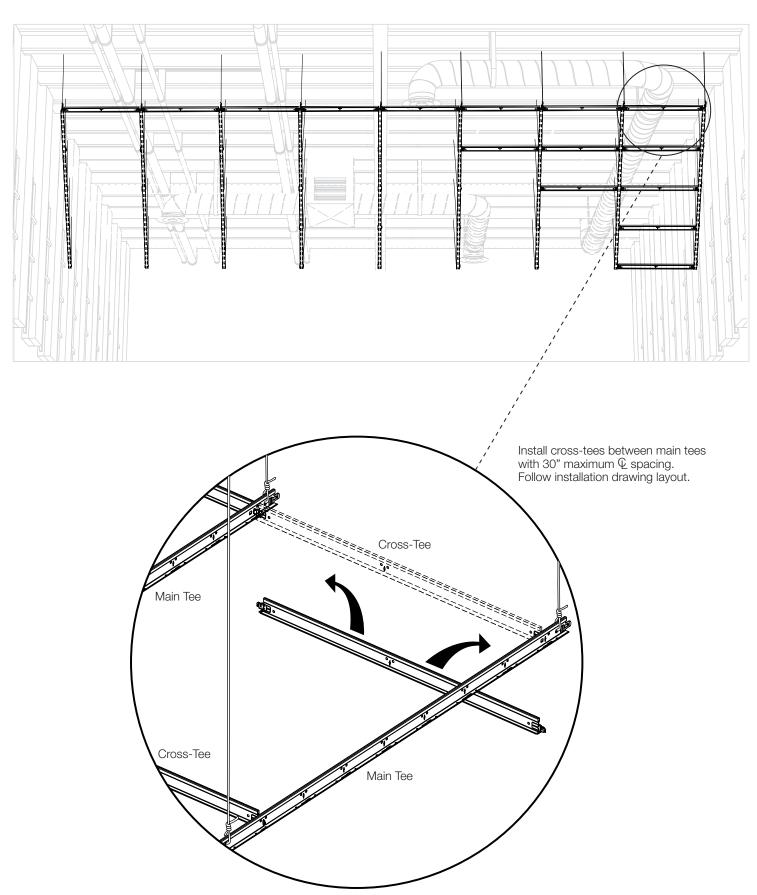


Install per ASTM C636 and ASTM E580 specifications. Select the correct fastener based on your field conditions, i.e. shot-in pin, anchor bolts, screw/clip, etc.

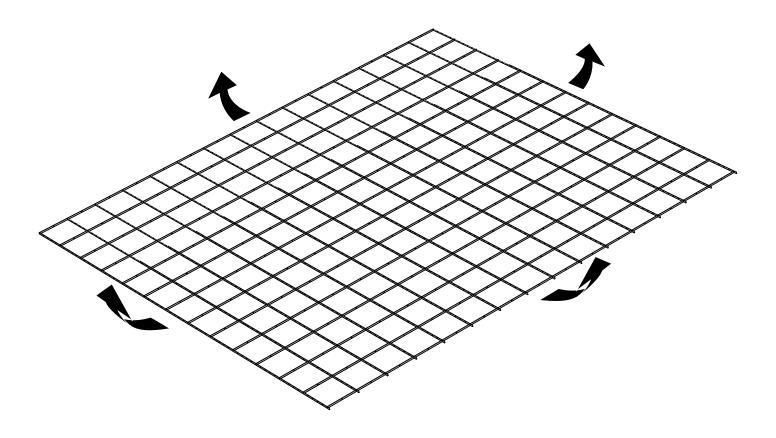
Install additional bracing required for project's seismic codes. Lateral bracing wires/compression posts. For lateral bracing, counter-splayed wires or diagonal bracing are required for each direction.



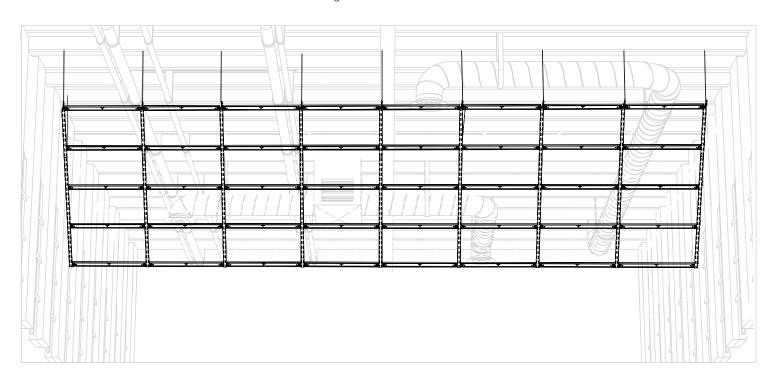
General InstallationInstall Cross-Tees



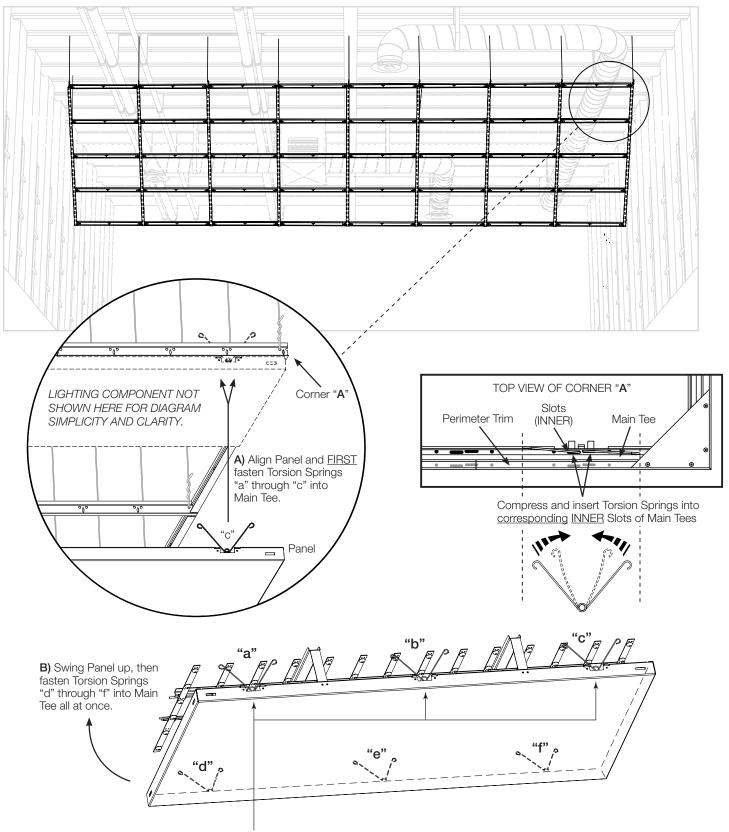
General Installation Level Grid System



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

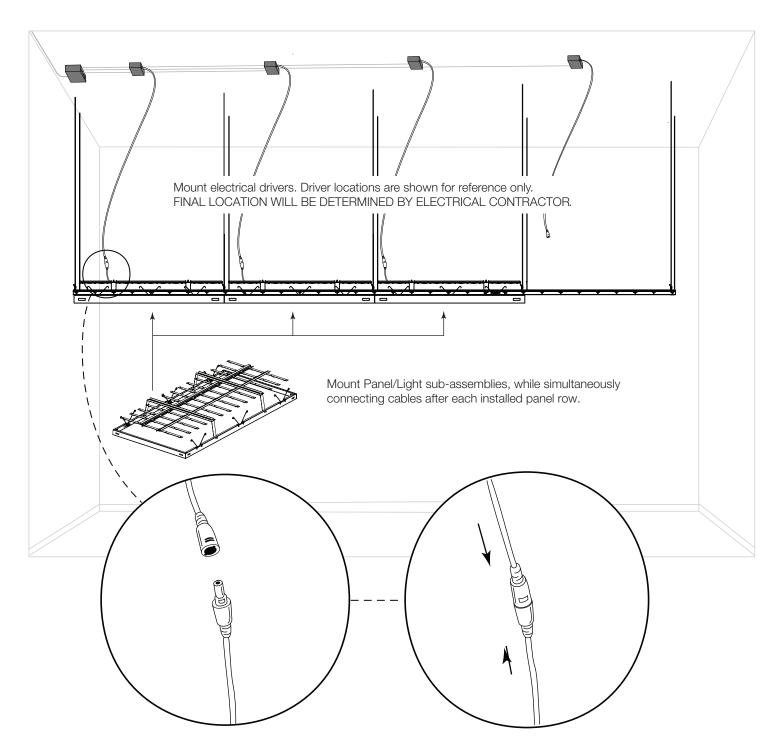


General InstallationInstalling Light/Panel Assemblies



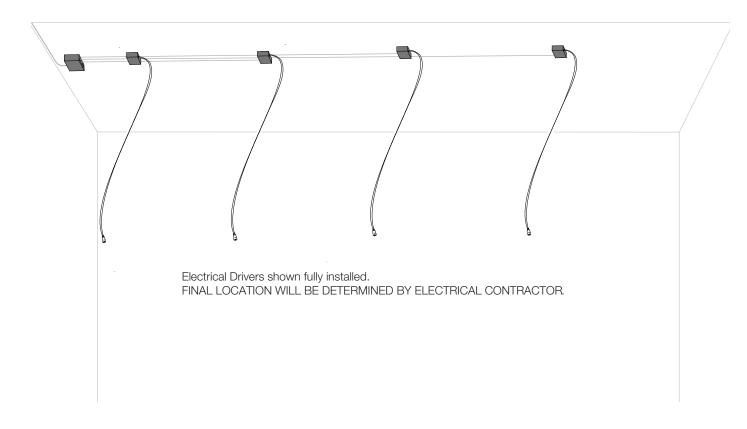
IMPORTANT: One side of Panel features Notches (a, b, c), to allow for it to hinge down temporarily prior to fastening Torsion Springs on opposite side. **This side of Panel must be fastened first.** This functionality also provides for plenum access after full installation.

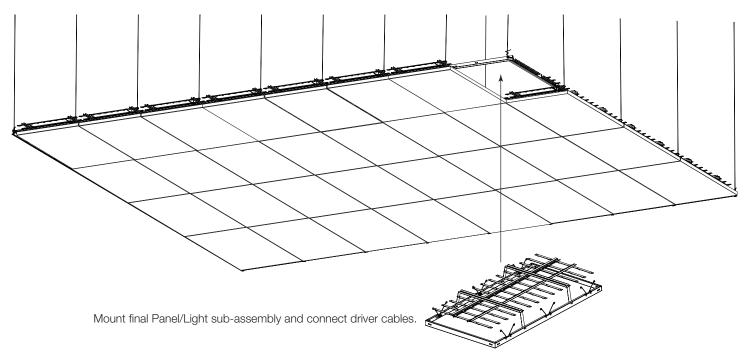
PreparationLight Drivers and Panel Wiring



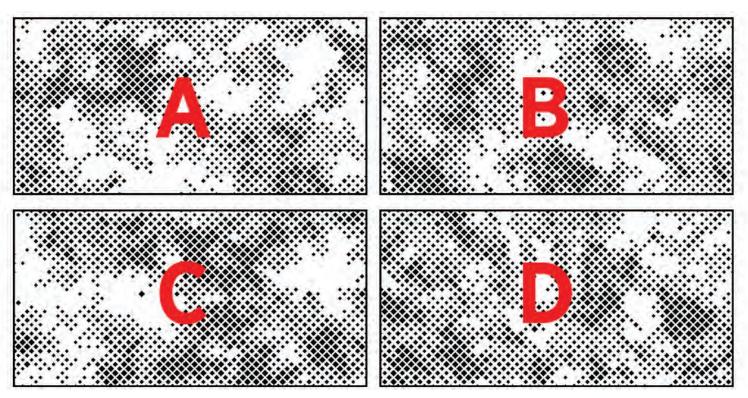
NOTE: If you are not utilizing Barrel Connectors, determine proper connections and strip/connect wire ends as necessary.

PreparationLight Drivers Installation



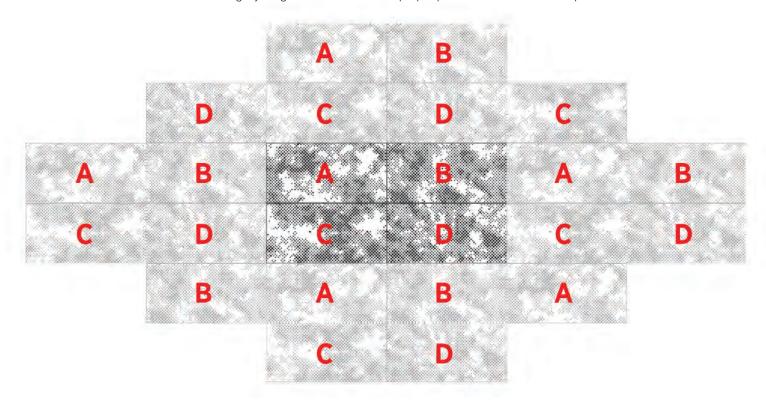


PreparationPanel Layout

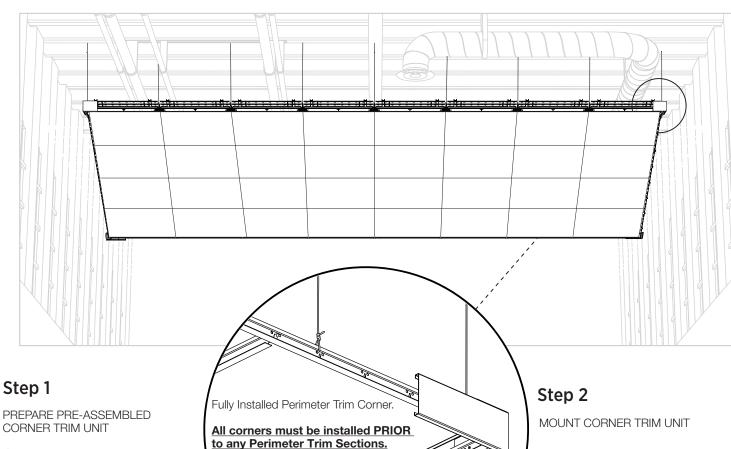


4-PANELS SETS FORM 1 UNIQUE DESIGN INSTANCE

To expand design instance, panels must be installed in the order shown by the indicatory letters. Please refer to tiling layout guide below to ensure proper perforation continuation/repetition.



General Installation Install Perimeter Trim Corner Units



Pre-Assembled Corner Unit

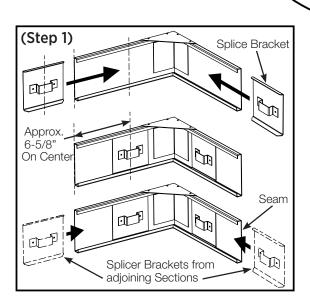
Step 1

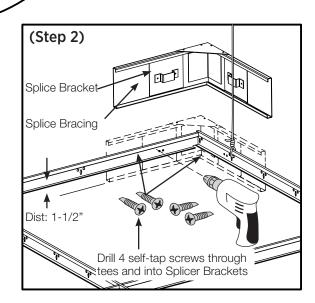
CORNER TRIM UNIT

A) Insert and slide Splicer Brackets into place at each end of the assembled corner unit to approximately 6-5/8" On Center from edge. Horizontal positions of splicer brackets may be adjusted as needed, but noting that other splicer brackets from adjoining sections will ocupy area over seams on center and will need clearance.

A) Align assembled Corner Trim Unit with Tees as shown below and hold in place at 1-1/2" down from bottom of Tee to bottom of Corner Unit.

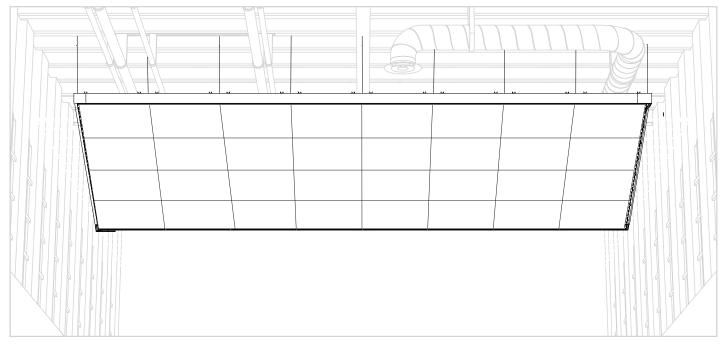
B) Using 4 self-tap screws, fasten Splicer Bracing to Tees.





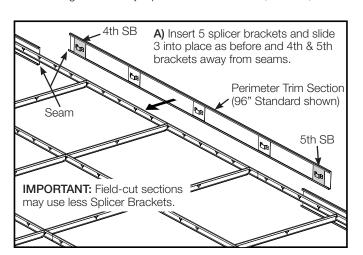
General Installation

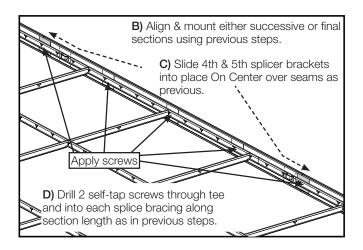
Install Corner-Adjacent Trim Sections

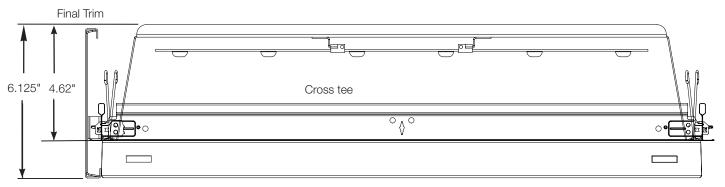


MOUNTING BRIDGE SECTIONS

NOTE: Image below may represent a "successive", a "final", or a "Field-Cut" Section mounting procedure (same rules apply).

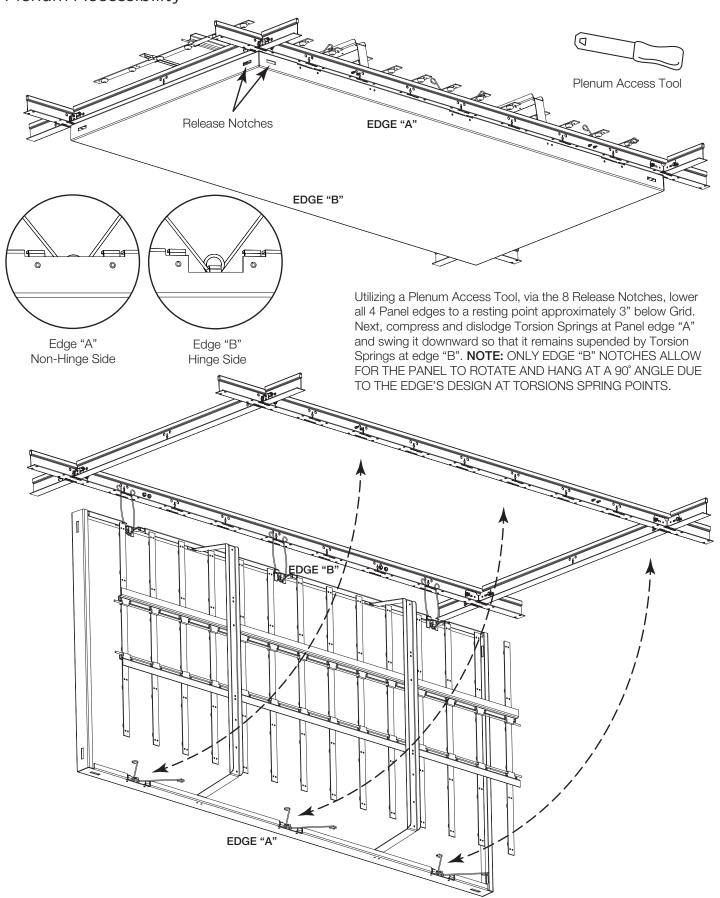




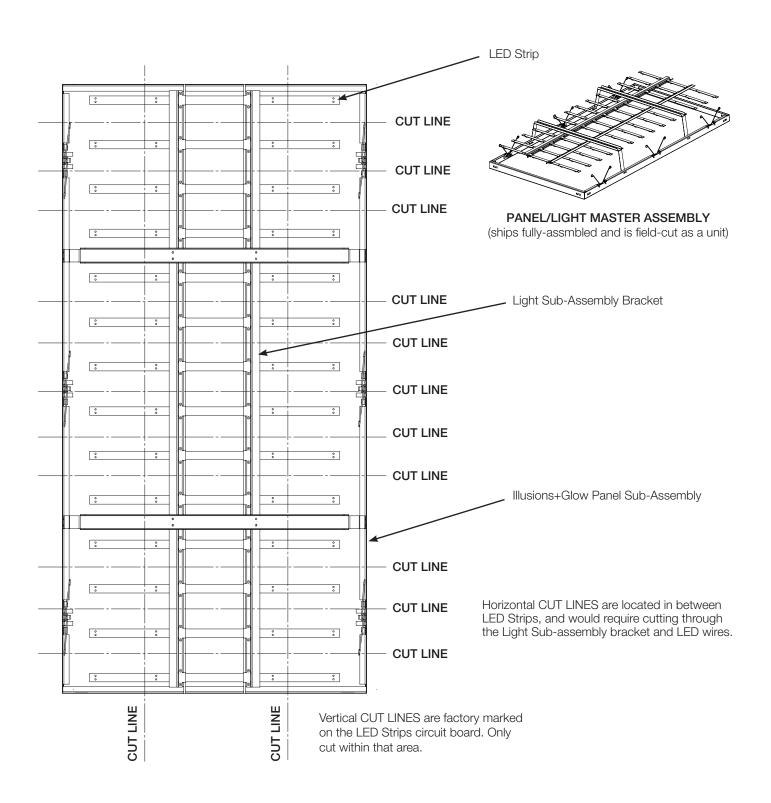


See dimensions for Trim reference. View includes perforated panel for reference

General InstallationPlenum Accessibility

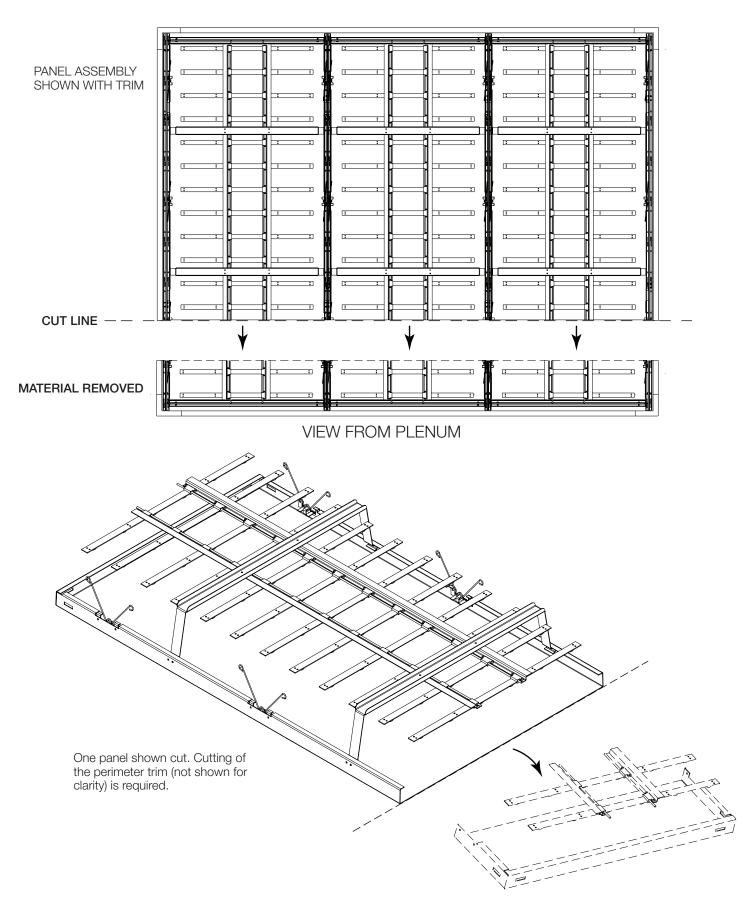


General InstallationField-Cut Options

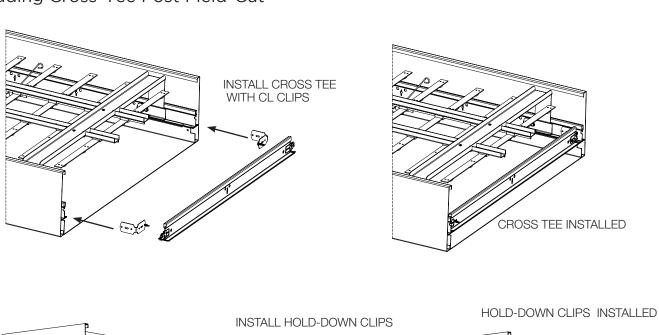


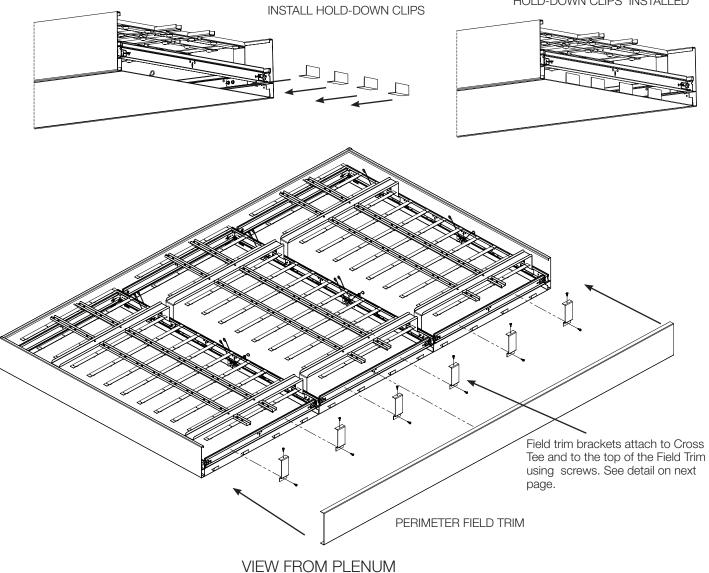
VIEW FROM PLENUM

General InstallationField-Cut Options



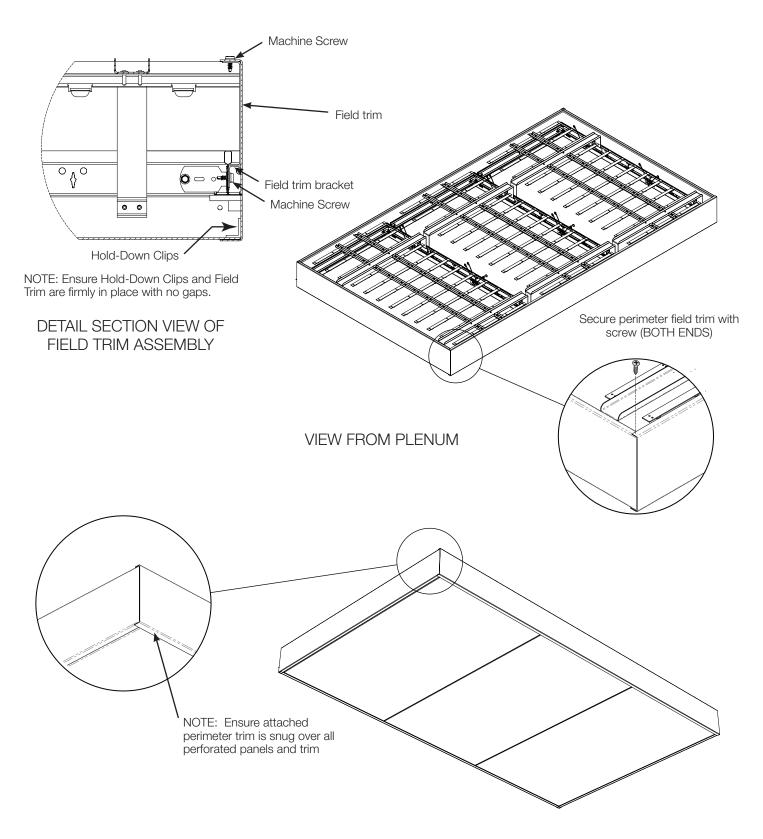
General InstallationAdding Cross-Tee Post Field-Cut





General Installation

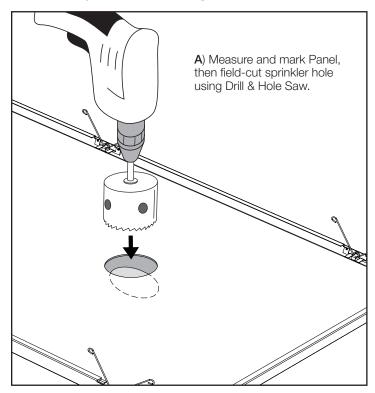
Adding Perimeter Trim Post Cross-Tee Addition

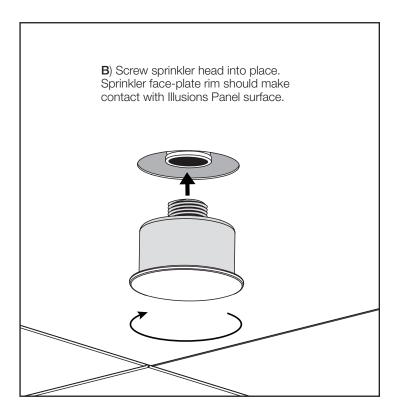


FULLY MODIFIED ILLUSIONS + GLOW CEILING SYSTEM

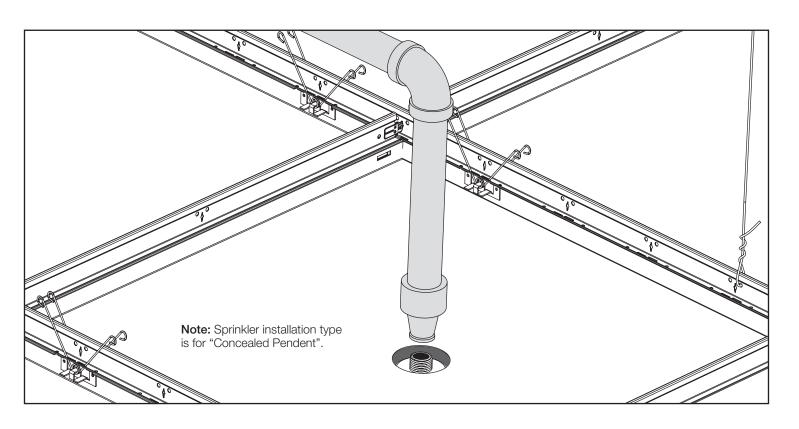
MEP Integration

Fire Sprinklers Integration



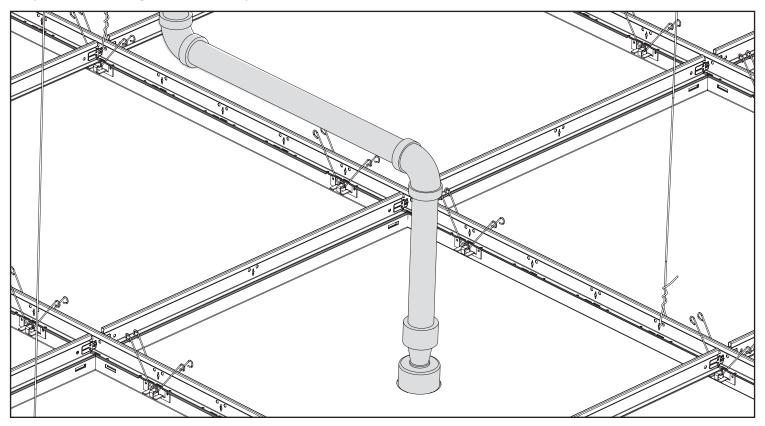


LIGHTING COMPONENT NOT SHOWN HERE FOR DIAGRAM SIMPLICITY AND CLARITY.



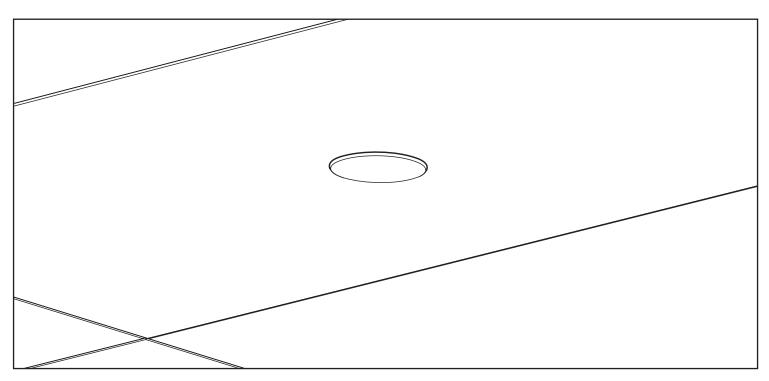
MEP Integration

Sprinkler Integration Completed



COMPLETED INSTALLATION (view from plenum)

LIGHTING COMPONENT NOT SHOWN HERE FOR DIAGRAM SIMPLICITY AND CLARITY.



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.