

AERO:Form Open Cell - Installation Instructions

Applicable Products: Cube Open Cell, Crossroads Open Cell, Trilateral Open Cell, Parallel Open Cell, and Grille Open Cell.

General Information

- AERO:Form beams & baffles are vertical & horizontal, fabricated and extruded aluminum profiles
- Thickness:
 - Fabricated: .041" - .125" (design dependent)
 - Extruded: .08 - .125 (profile dependent)
- These ceilings are offered in Trilateral, Parallel, Crossroads, Cube and Grille Open Cell designs. See the product data pages for dimensions of each type.
- AERO:Form beams are designed to be installed with heavy duty 15/16" grid, Unistrut or custom suspension system.
- Metal Ceilings are engineered for use in seismic areas when installed in accordance with local code requirements.

Site Conditions

- Install only after spaces are enclosed and weather-tight, and after all wet work and overhead work have been completed.

Storage & Handling

- Do not store or install near an exposed flame, source of heat, or source of ignition.
- Store horizontally in the original carton in a dry, interior space. Clean gloves must be used to avoid fingerprints. When removed for install, the components should be stored in a flat, horizontal position.
- Recommended that two people install each 8' beam.

Fire Performance

- Manufactured to meet ASTM E-84 Class 1 or A fire retardancy. Baffles may interfere with fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and their local code official for guidance on the proper installation.

Warranty

- A 1-year limited warranty is available. Please consult www.maxxitgroup.com for details.

Colors

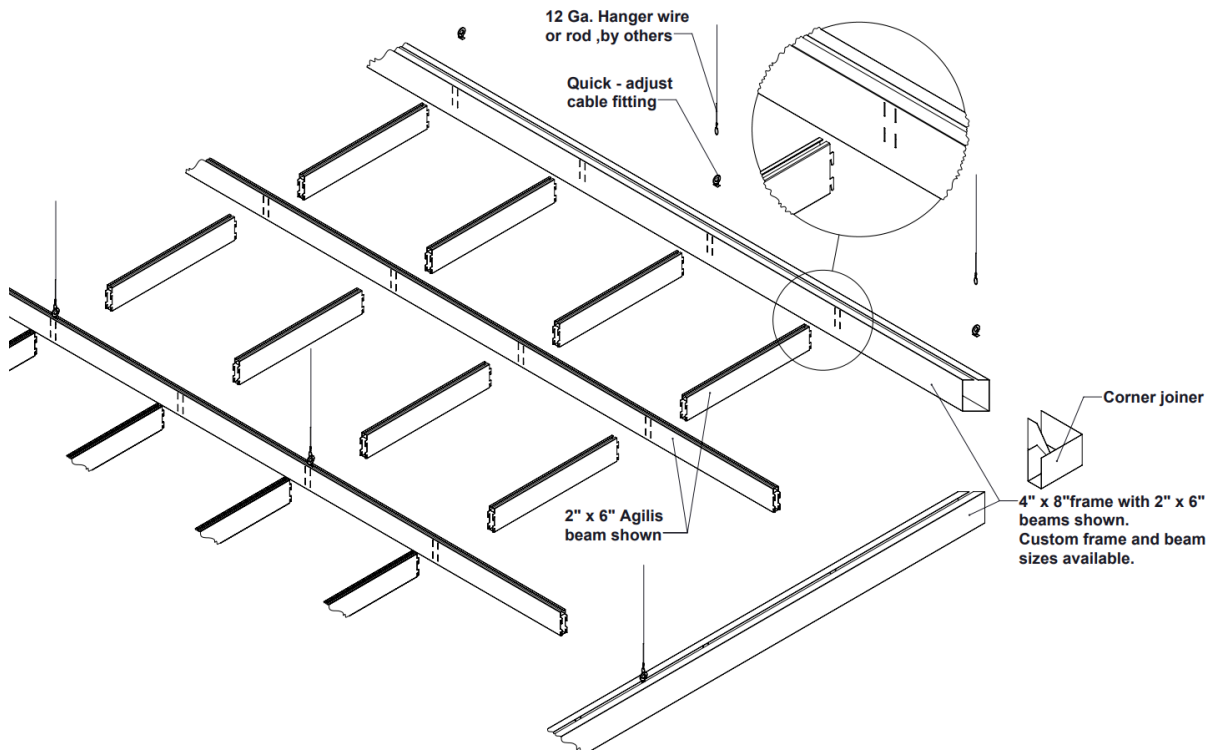
- Made with a factory-applied polyester paint. Available in Standard Colors, Color Matched and Wood Look powder-coated and film.
- To maximize visual consistency, beams should be unpacked and examined collectively to determine the most desirable arrangement for installation.

Cutting Beams

- AERO:Form beams are made of aluminum that can be cut with commonly available tools.
- Cut the beam using standard wood working tools and, where possible, a straight edge. A table saw is recommended for straight cuts and a band saw for curved cuts. In general, these practices will be typical of those employed in finish carpentry.
- Circular saws should use a multi-purpose blade. For best finished cut quality use a straight edge guide and maintain a constant feed rate. Stop the blade motion before backing the saw out of the cut.
- AERO:Form Grille Open Cell is designed for exact fit – no site cutting recommended.

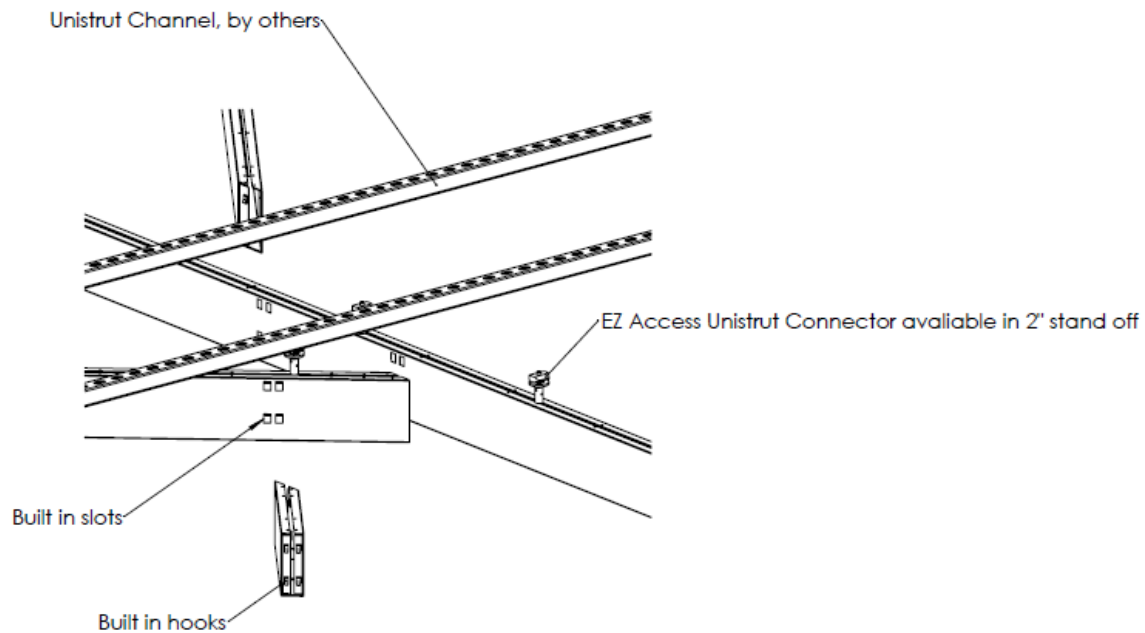
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AERO:Form Cube Open Cell



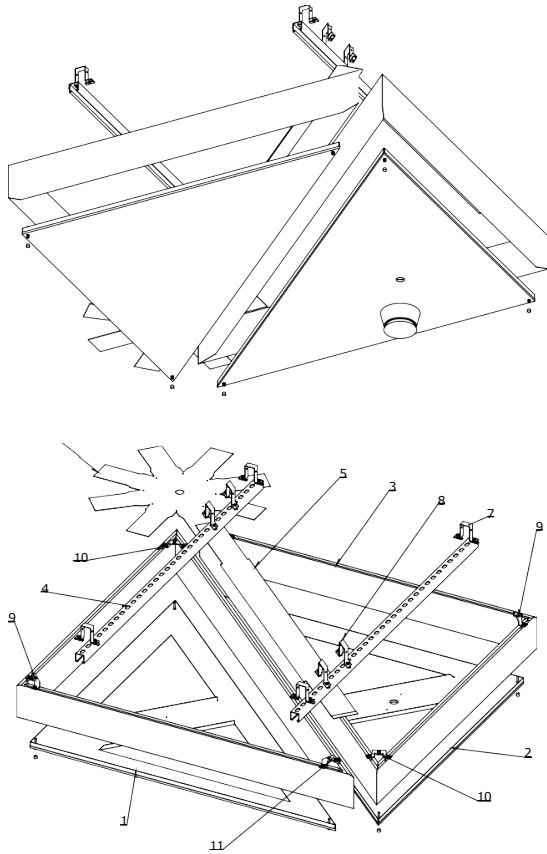
AERO:Form Crossroads Open Cell

Creates open cell designs that can be configured to architectural elements and special consideration.



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AERO:Form Trilateral Open Cell

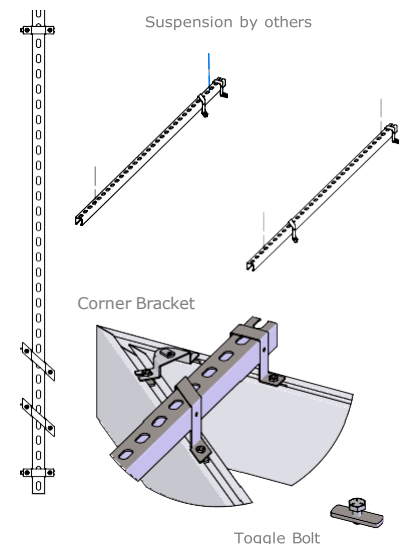
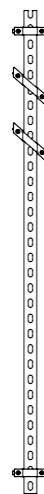


Note: due to the 42/48 Degree angles in these triangles, the saddle bracket can only be used in one direction. Its recommended to dry fit the whole assembly before attempting to install the assembly on the ceiling.

1. Suspend Strut Rail with 3/8" threaded rod or 9Ga. galvanized wire. Keep suspension points in the safe areas to avoid interference with sadd brackets
2. Locate 2 straight and 2 Angle saddle brackets over Strut Rail. Refer to Bracket plan.
3. Panel & Extrusion Assembly
 - a. Remove the plugs from the holes
 - b. Use a 1/8" Hex key to remove the panel from Corner Brackets
 - c. Leave the 3 corner brackets attached to Extrusion
4. Lift up Extrusion Assembly to underside of Strut Rail
 - a. Drop the toggle bolts (2 per bracket) into the channel of the extrusion and clamp the

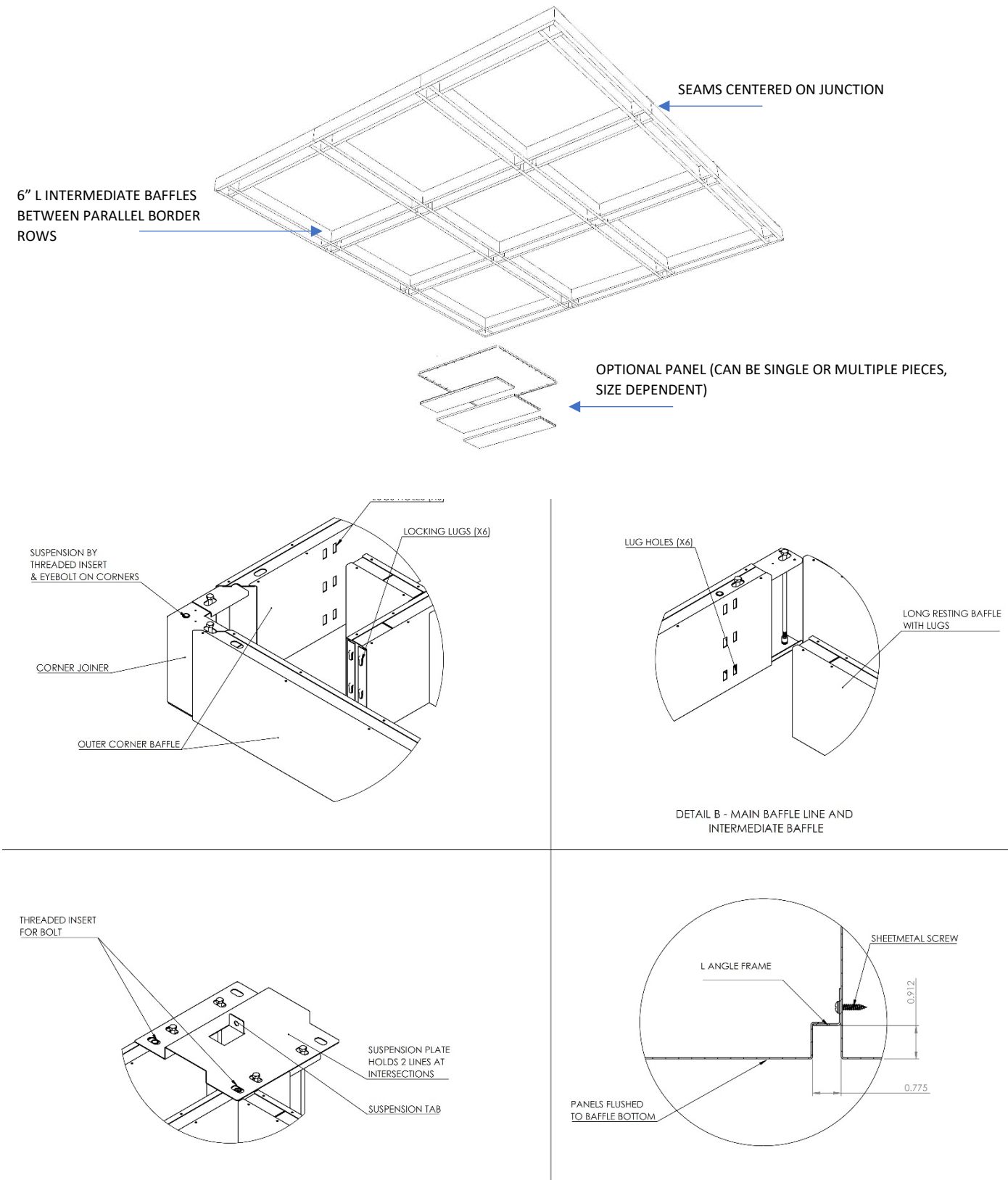
- bracket to the top of the extrusion.
5. Repeat 1-5 for second triangle
 6. Align the 2 triangles so there is 5.5" between the 2 longest sides
 - a. Insert linear plate
 - b. Slide triangles together
 - c. Drop plate flanges into top channels of extrusions
 - d. #10 Clearance holes provided to lock triangles into Strut Rail
 7. Circular plate provided for reference only
 - a. Can be installed only after 4 neighboring triangles have been installed.
 - b. #6 Clearance holes provided to attach to top of extrusions.
 8. Reinstall Panel Assemblies
 - a. Use a 1/8" Hex key to attach the panel to the corner brackets

ITEM NO.	DESCRIPTION	QTY
1	Panel Assembly	1
2	Panel Assembly - Light	1
3	Aluminum Triangle	2
4	1.625" Strut Rail	2
5	Linear Plate Long	1
6	Centre plate	1
7	Straight Saddle Bracket	4
8	Angle Saddle Bracket	4
9	Corner Bracket 90°	2
10	Corner Bracket 48°	2
11	Corner Bracket 42°	2



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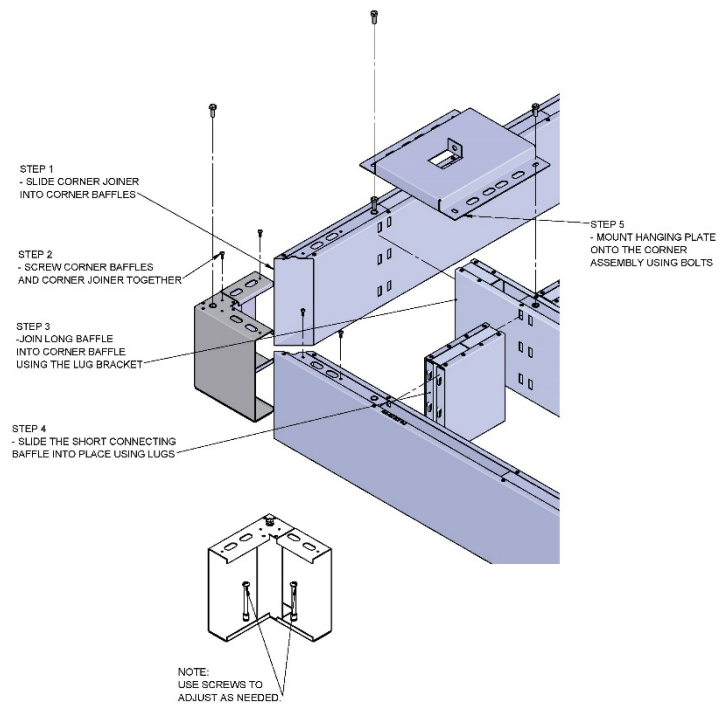
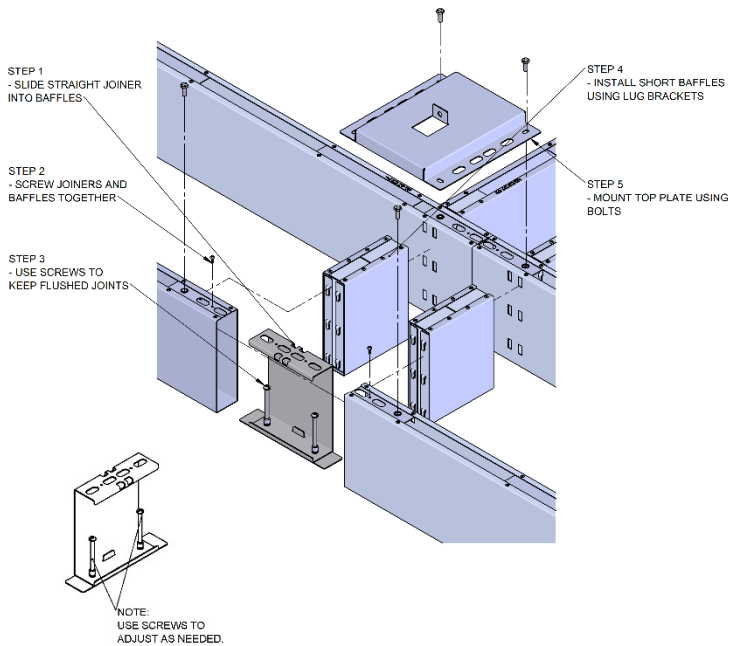
AERO:Form Parallel Open Cell



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Straight Baffles Assembly

- Step 1 - Slide straight joiner into baffles
- Step 2 - Screw joiners and baffles together
- Step 3 – Use screws to keep flushed joints
- Step 4 – Install short baffles using lug brackets
- Step 5 – Mount top plate using bolts

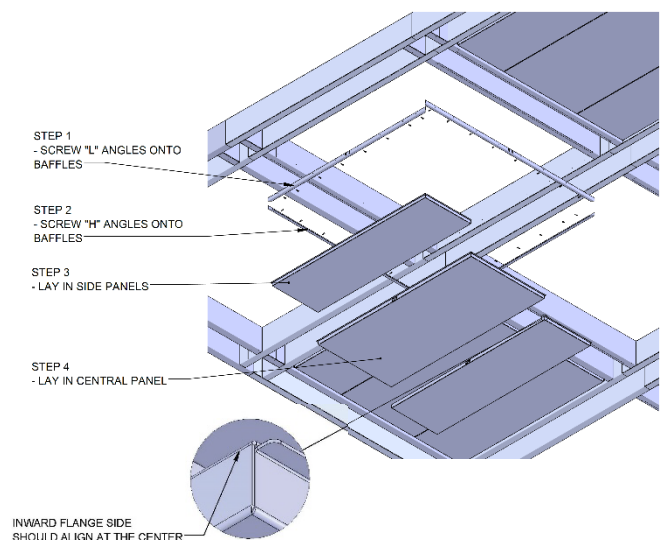


Panel Installation

- Step 1 – Screw angles onto baffles
- Step 3 – Lay in side panels
- Step 4 – Lay in central panel

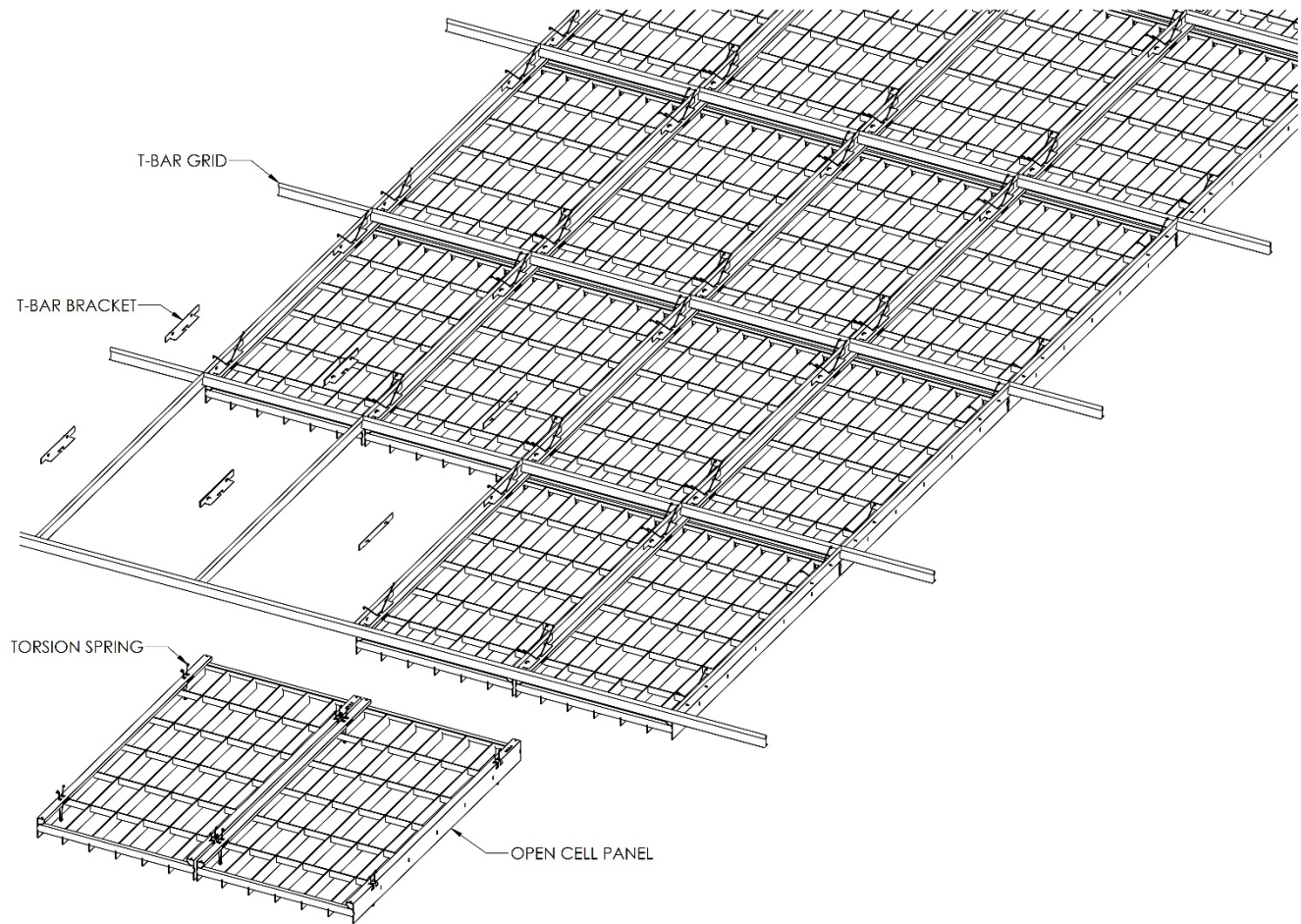
Corner Installation

- Step 1 - Slide corner joiner into corner baffles
- Step 2 – Screw corner baffles and corner joiner together
- Step 3 – Join long baffle into corner baffle using the lug bracket
- Step 4 – Slide the short connecting baffle into place using lugs
- Step 5 – Mount hanging plate onto the corner assembly using bolts



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AERO:Form Grille Open Cell



Attaches to 15/16" HD Grid or custom suspension system.

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MEP Integrations

- Mechanical fixtures such as lights and sprinklers can be installed at the suspension system height, flush with the bottom of the baffles, or below the bottom of the baffle. Fixture weight must not be supported by the felt baffles or HD grid suspension.

Before installing, please note.

In addition to these instructions please refer to the publications referenced below for full details on industry accepted practices and requirements.

- CISCA "Ceiling Systems Handbook"
- Standard for Ceiling Suspension System Installations - ASTM C 636
- Standard for Ceiling Suspension Systems Requiring Seismic Restraint - ASTM E 580
- IBC (International Building Code) Standard for Seismic Zone for local area.

For addition question or assistance

Please contact us at: www.maxxitgroup.com