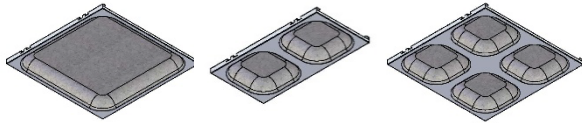


PANEL:Form | Fusion Ceiling Panels - Installation Instructions

General Information

- Fusion ceiling panels are horizontal, fabricated aluminum panels with thermoformed felt inserts. Available in Concave, Canyon and Vertex styles.
- These ceilings are offered in Solo, Duo and Quad configurations. See the product data pages for dimensions and details of each configuration.



- Fusion ceiling panels are designed to be installed with most industry standard T-Bar grids.
- Fusion ceilings are engineered for use in seismic areas when installed in accordance with local code requirements.
- Fusion panels are downward accessible and designed to install on T-bar suspension grid 'Main Beams & Tees' using with factory supplied mounting brackets and torsion springs.

Site Conditions

- Panels are not to be used in exterior applications or high moisture environments where water comes in direct contact with the panels.
- Install only after spaces are free of construction debris, enclosed, 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.

Fire Performance

- Fusion is manufactured to meet ASTM E-84 Class 1 or A fire retardancy. Panels 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.

Finishes

- Fusion is made of a combination of aluminum and acoustic felt. Surface finish (aluminum): factory applied powder-coat paint, available in Standard Colors or Color Matched. Finish (felt): 30+ colors to choose from.
- As with all felt products, color and texture may vary; to maximize visual consistency, panels should be unpacked and examined collectively to determine the most desirable arrangement for installation. To avoid dye-lot variations, adequate attic stock should be purchased at time of order.

Drilling Holes

- If not pre-specified, lighting and sprinkler cutouts can be performed on-site, diamond hole saws provide the cleanest cut through acoustic felt.

Cutting Panels

- Solid aluminum panels can be specified to match or complement the system where perimeter solution is required.
- Metal frames are made of aluminum that can be cut with commonly available tools. Acoustic felt inserts should be removed prior to cutting.
- To cut trimmable flat felt inserts, use a utility knife, straight edge, making several passes if necessary. Cutting dimensional felt panels is not recommended.
- Use standard woodworking tools to cut the metal panels, utilizing a straight edge when possible. For straight cuts, a table saw is recommended, while a band saw is ideal for curved cuts. These methods are generally consistent with typical finish carpentry practices.

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- 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.
- Aluminum trim, if supplied, will be in 10' (nominal) lengths, to be cut to length onsite by installer.

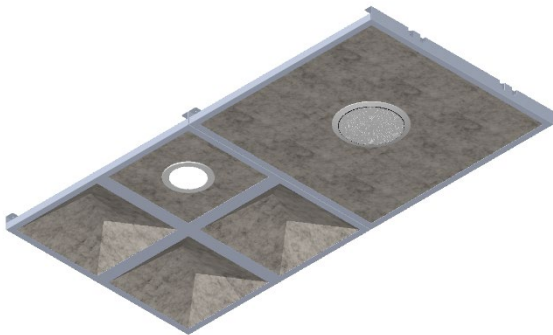
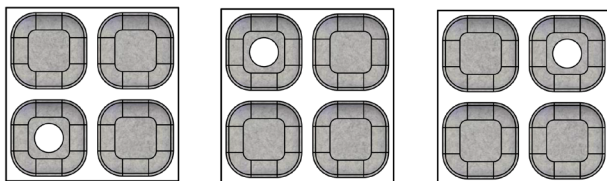
Installation on T-bar Grid

Before installing please note:

- T-Bar (by others) should be installed according to manufacturer's instructions for 2' x 2' grid.
- Maximum main T-bar spacing is 48"
- Maximum hanger wire spacing on main T-bar is 48"
- 15/16" cross T-bar should not exceed 24" spacing.
- Make sure that the entire system is straight and correctly leveled.

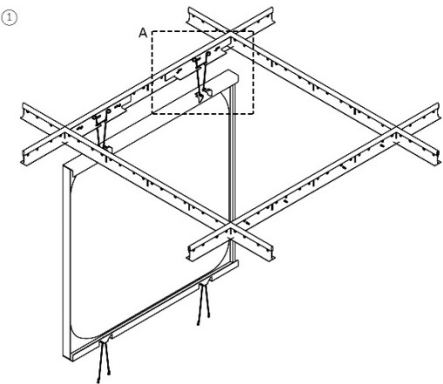
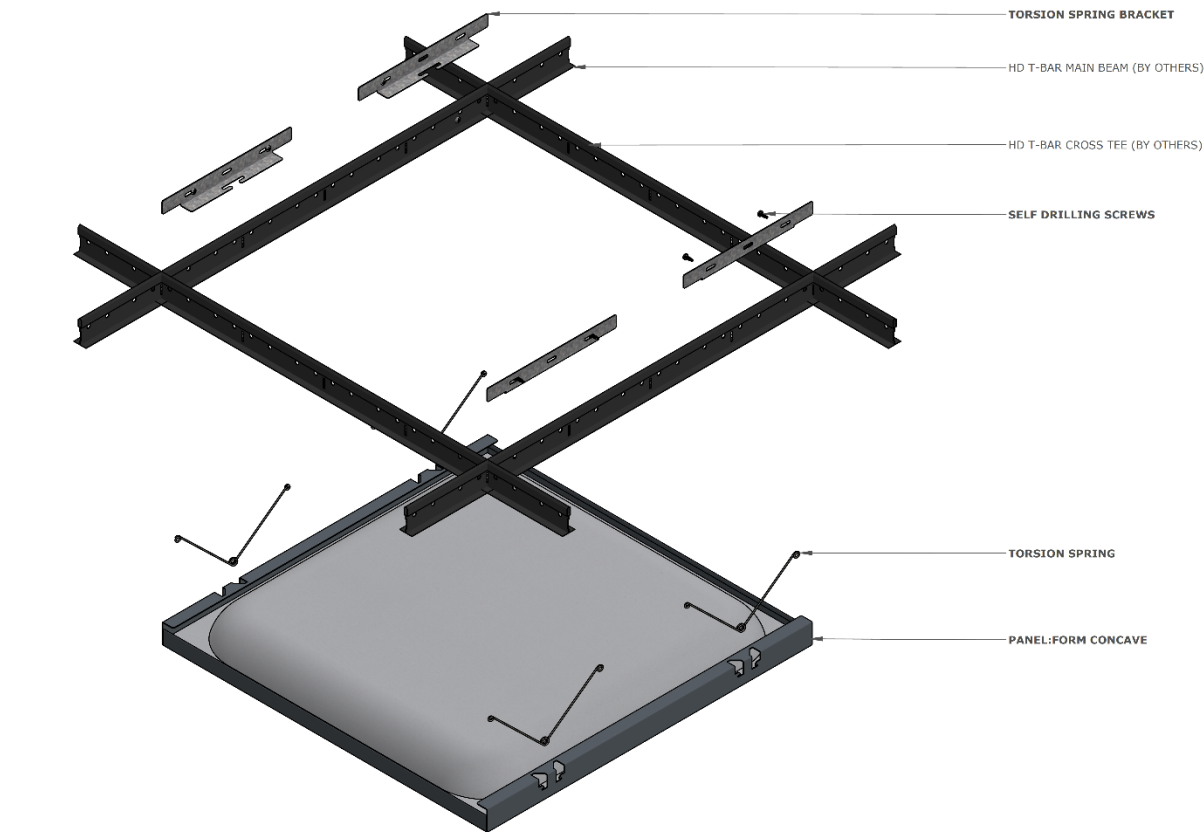
Connecting panels to T-bar Grid

- If pre-drilled, panels with lighting cutouts should be rotated and placed in the final orientation as needed before mounting them to T-bar system. In case of Canyon and Vertex, panel specified with flat felt inlays must be rotated accordingly.

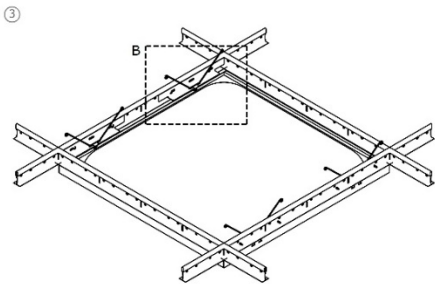
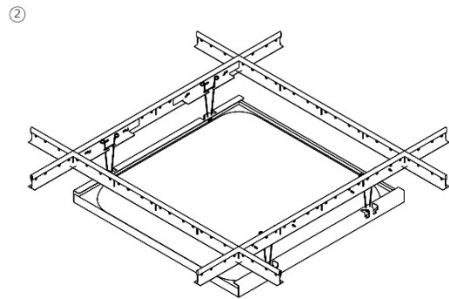
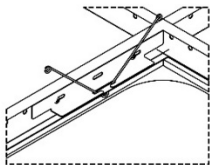
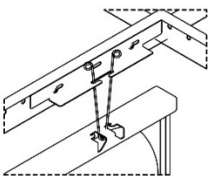


- Compress the torsion springs ends together and insert into the L-angle bracket slots
- Compress torsion spring and insert to engage ceiling panel. Repeat for all 4 locations on each panel.
- Attach self-locating mounting brackets to T-bar mains. Mounting bracket sits inside the T-bar and is pushed tight into the corner. Secure each with self-drilling sheet metal screws (#8 TEK screw or similar, by others). (see detail A)
- Holding 2 of the torsion springs that are on the same side of the ceiling panel – compress the ends and engage the mounting slot in the mounting brackets.
- Repeat for the remaining 2 springs.
- Press the panel into place. The springs will expand and hold the panel firmly in place.

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- INSTALLATION SEQUENCE**
1. INSTALL TORSION SPRING BRACKETS ON THE T-BAR GRID (BY OTHERS)
 2. SECURE THE BRACKETS WITH NO. 8 SELF-DRILLING SCREWS
 3. INSERT TORSION SPRINGS INTO THE DESIGNATED CUT-OUTS ON THE PANEL
 4. CLIP THE TORSION SPRING INTO THE BRACKET, THEN RELEASE
 5. REPEAT THIS STEP ON THE OTHER SIDE OF THE PANEL TO SET IT HORIZONTALLY
 6. PUSH THE PANEL UP TO THE TORSION SPRING BRACKET TO ENGAGE THE TORSION SPRINGS AND SET ITS FINAL POSITION



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MEP Integrations

- Mechanical fixtures such as HVAC diffusers and fire sprinklers can be installed at the finished ceiling height, flush with the bottom of the panels (Concave). Canyon and Vertex can be specified with flat felt inlay that can host integrations. Fixture weight must not be supported by the ceiling panels.

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.

Care & Maintenance

- Proper preparation and cleaning can help to maintain the panels' original appearance. Before installation, remove any dirt and debris from the surrounding area. Metal panels, especially those with the Anodized Aluminum finish, may arrive at the job site with a protective PVC film applied to the surface. This film should be removed prior to panel installation; simply peel up at one corner and pull away from the panel face. Do not leave film attached to panels for more than 90 days as it will become increasingly difficult to remove. Wipe panels with a clean, soft cloth to remove dust. For more difficult residue, wipe panels with a mild soap or detergent (see Compatible Cleaners below) and lukewarm water, using a clean sponge or soft cloth. Rinse well with clean water. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots. Do not scrub or use brushes. To remove fresh paint splashes, grease or smeared glazing compounds, rub panels lightly with VM&P naphtha or isopropyl alcohol. Wipe with warm water and a mild soap or detergent solution. Rinse

thoroughly with clean water and dry. Use only the following mild cleaning agents: • Joy® dishwashing detergent • Palmolive® dishwashing liquid • Windex® glass cleaner Follow the manufacturer's instructions and recommendations when using these products. • Do not use abrasive or highly alkaline cleaners. • Do not scrape panels with squeegees, razor blades or other sharp instruments. • Do not use benzene, gasoline, acetone, carbon tetrachloride or butyl cellosolve.

- For felt panels: use clean, dry, soft, white cloth to wipe off any fingerprints or dust. You can also use a vacuum with an upholstery cleaning attachment. Clean in one direction for best results. A damp cloth and mild detergent can be used for more stubborn dust and dirt. Wipe off afterward with a dry cloth.
- Before application, always test a small portion of the surface with soaps and detergents before applying to the entire surface in case of discoloring.

For addition question or assistance

Please contact us at: www.maxxitgroup.com