INSTALLATION, OPERATION, & MAINTENANCE GUIDE

FrameWorx™ Critical Room Ceiling Grid

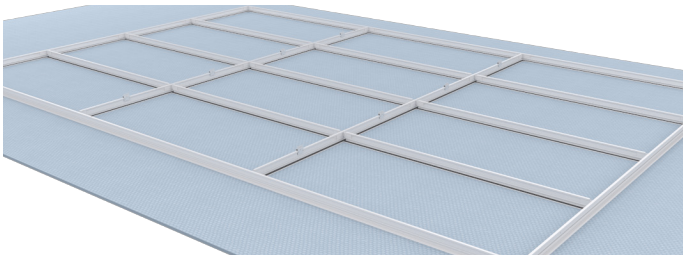
KRUEGER®

INTRODUCTION

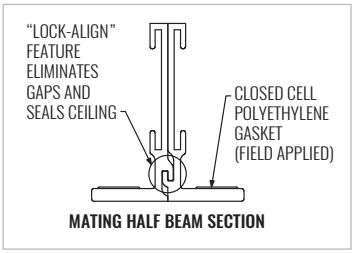
Krueger's Frameworx™ grid systems are constructed from heavy, extruded aluminum tee and/or half tee framing members. The framing tees are arc welded to form a rigid, pre-fabricated assembly or sub-assembly. Refer to the specific submittal sheet(s) that depict the geometry of the specific grid layout for the designed system. When the overall grid system exceeds the maximum size for a one piece assembly, the system is broken into subassemblies. The subassemblies are constructed so that half tee members are used where the subassemblies adjoin.

The grid system is installed as typical for any commercial grid system. The difference in a welded assembly (which Krueger's Frameworx™ is not) is that the entire grid is positioned in the ceiling cutout opening as one assembly, rather than mechanically joined frame by frame.

ASSEMBLY



1. Cover the floor with plastic, cloth, etc. so as not to scratch or mar the visible grid face.
2. Lay out the assemblies on the floor with the tee face down.
3. Align and press fit half tee hook features together. A rubber mallet can be used to tap half tee framing members together.

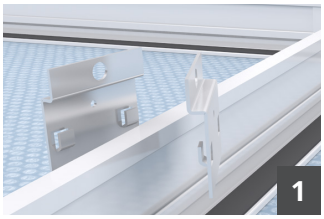


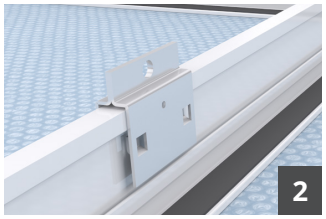
INSTALLATION

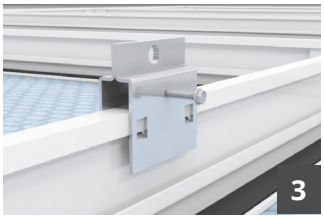
The entire grid assembly should be lifted and positioned into the ceiling opening so the back of the face tee contacts the ceiling surface.

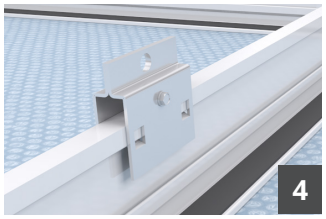
Apply silicone based caulk to the backside of the perimeter tee where it contacts the ceiling, to help prevent air leakage and migration of particles/contaminants. *NOTE: If caulk is applied before the grid is hoisted, then positioning must be performed quickly.* Also, a small bead of caulking at the perimeter of the face tee and ceiling may also be acceptable. Please check with the engineer, architect, or owner to determine which method is preferred for each installation.

¼" diameter holes are located in the vertical legs of the grid for attachment of straps or hanger wire to support the anticipated load of the system. The support hangers should be sized and uniformly spaced to provide support for a minimum ceiling load of 10 lbs/ft² and should be vertical to prevent distortion of the grid.









1. Use the U-shaped joiner clips to attach the subassemblies where the half tees meet.
2. The U-shaped joined clips include barbs which should be pulled completely up into the tee so that the barbs enter the small groove located in the tee extrusion.

NOTE: It is not recommended to screw attach the perimeter of the grid system to the perimeter framing or structure, as this may distort the grid and prevent devices from properly laying into the grid modules.

The grid should be shimmed as needed to prevent shifting where the grid meets the ceiling.

The assembly of the grid into the ceiling opening before installing the diffusers, lights, etc. into the grid assumes ample plenum height to insert devices through the grid opening AFTER grid installation. Due to variations in device dimensions and configurations, a minimum plenum height cannot be provided. Careful consideration should be given before installation so the installer is satisfied that the devices can be moved through the grid opening and positioned within.