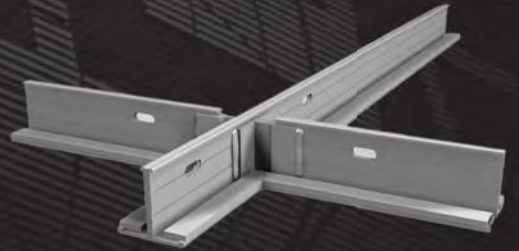


Unitee



Unitee CR



Unitee HDCR

PRICE CEILING SYSTEMS

SERVICE & INSTALLATION MANUAL

Date: 09/10
Reference #: E-95

www.price-hvac.com

Introduction

Price offers three types of ceiling products for different environments.

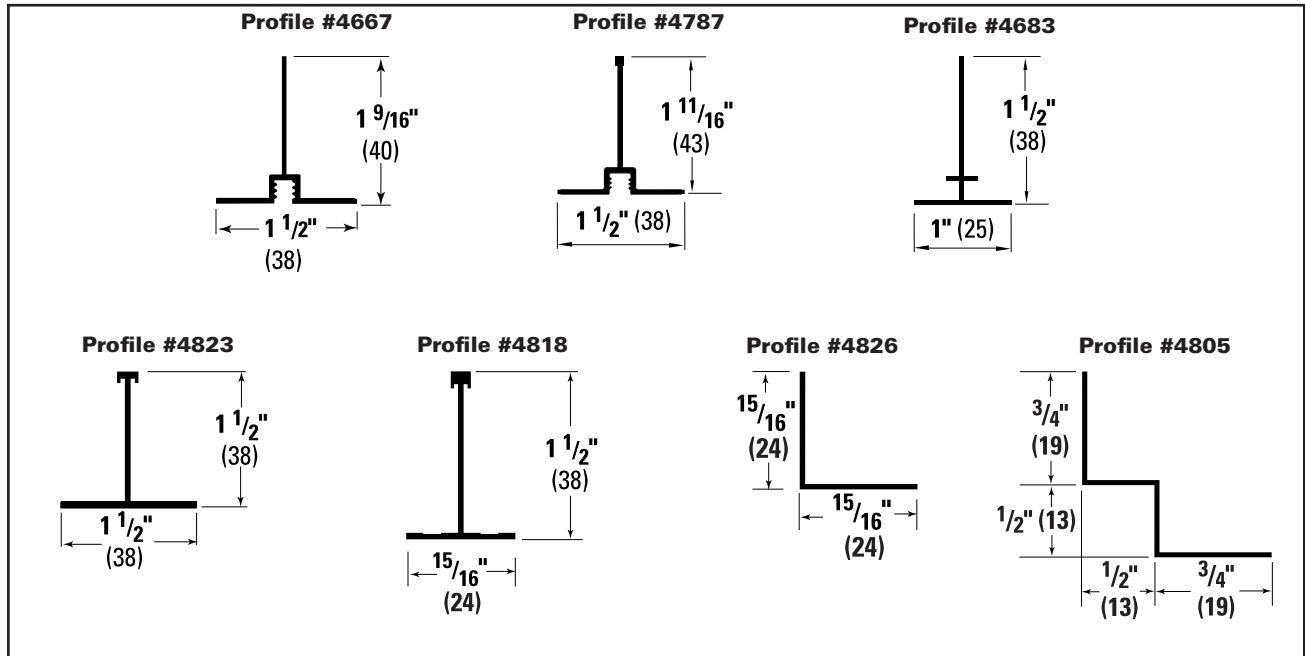
Unitee – Standard Ceiling – is an extruded aluminum T-bar ceiling for office and other non-critical spaces. Unitee comes with our standard B12 finish.

Unitee CR – Cleanroom Ceiling – is applicable in hospital, laboratory, and other cleanroom areas where a gasketed system is required. A B11 finish is used to withstand strong cleaning solutions typically used in these areas. The aluminum T-bar, vinyl gasket, and hold down clips provide the tight air seal required in cleanroom ceilings.

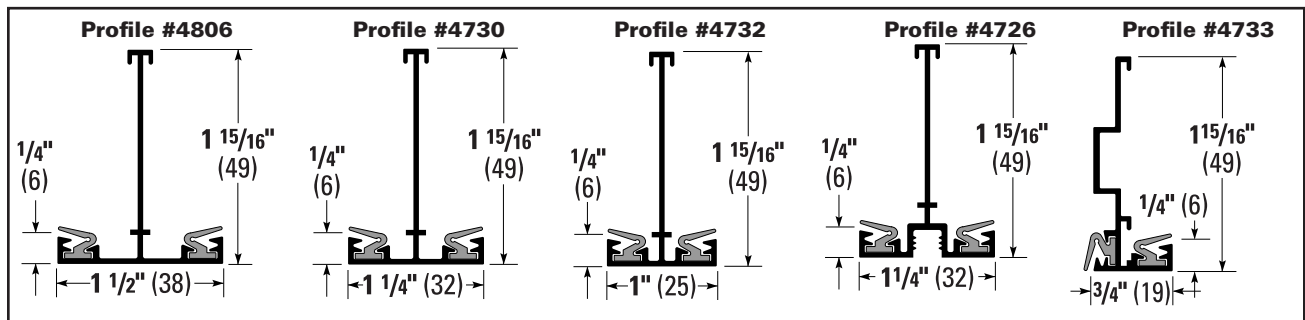
Unitee HDCR – Heavy Duty Cleanroom Ceiling – is applicable in hospital, laboratory, and other cleanroom areas where a gasketed heavy duty welded ceiling system is required. Heavy duty aluminum T-bar extruded profiles are welded in large sections and lined with thick foam gaskets.

Ceiling Tee Profiles

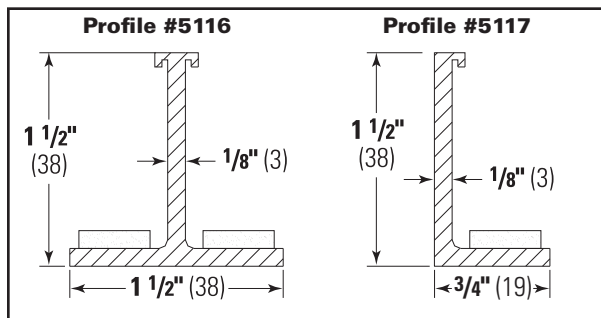
Unitee



Unitee CR



Unitee HDCR



Installation - Unitee, Unitee CR

The following installation description is a typical installation only. For more detailed installation information we refer you to ASTM C636 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

Step 1:

The Unitee CR ceiling tees are supplied with the installed gasket approximately $\frac{3}{8}$ " longer than the tee face. Trim the gasket so the gasket extends approximately $\frac{1}{32}$ " from the face of the tee. The gasket should be cut at an angle as shown in the following drawing.

Step 2:

The Unitee/Unitee CR ceiling can be installed at any height, as long as a minimum 3" clearance is maintained below the lowest air duct, pipe or beam. This clearance is required for the installation and removal of ceiling panels. Measure and mark the ceiling height at each corner of the room.

Step 3:

Mark a perimeter chalk line around the entire room at the height where the top of the wall mold will be. The distance the chalk line will be above the required ceiling height will vary depending on the wall mold used. Following are the recommended distances above the desired ceiling height:

- Unitee profile 4826: $\frac{15}{16}$ "
- Unitee profile 4805: $1 \frac{1}{4}$ "
- Unitee CR profile 4733: $1 \frac{15}{16}$ "

Step 4:

Using a carpenter's level, confirm that the chalk line is level all around the perimeter of the room. Measuring up from the floor or down from the roof is not recommended as either may not be level.

Step 5:

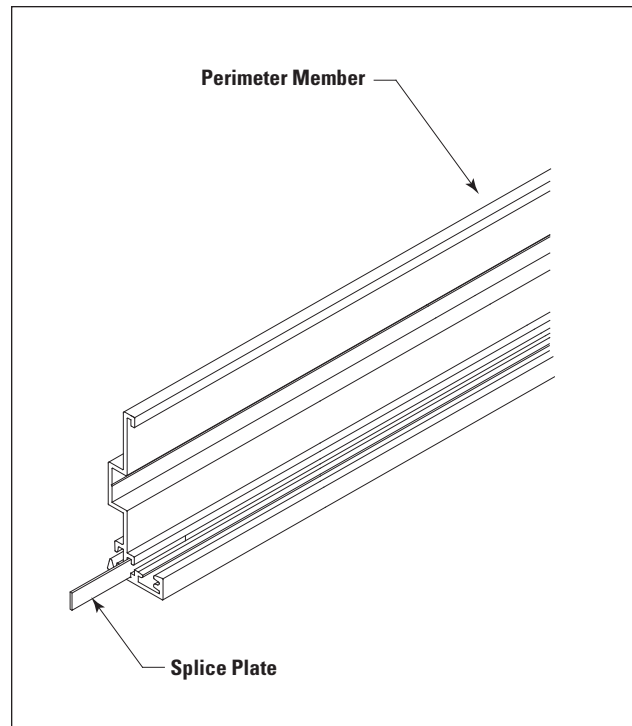
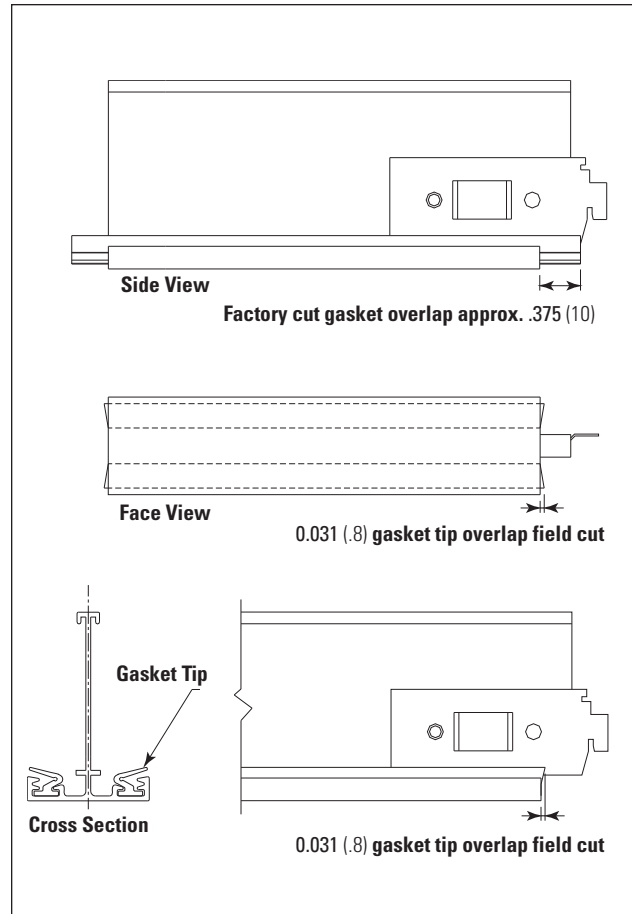
The wall mold is supplied in 12 ft. lengths with straight ends. Measure each section of wall and cut the wall mold to the required lengths. Where a section of wall is longer than 12 ft., butt two (2) sections of wall mold together using a splice plate.

Step 6:

With the top of the wall mold along the chalk line, screw the wall mold around the entire room. Screws should be spaced approximately 2 feet on center, or closer. Alternatively, the wall mold can be nailed in place.

Step 7:

At corners miter the ends of the wall mold (45°) and fit



Installation - Unitee, Unitee CR

THE FIRST END OF THE CROSS TEE MOUNTING CLIP INTO THE LEFT REGIMENTATION, WHEN FACING THE MAIN TEE, THE TEE BAR MOUNTING CLIP ON THE OPPOSITE END OF THE CROSS TEE SHOULD ALSO BE INSERTED INTO THE LEFT REGIMENTATION WHEN FACING THAT MAIN TEE.

Step 14:

Remove the tee bar mounting clips from the end of all cross tees which intersect the wall mold. To remove the mounting clip, press down and back towards the center of the tee, on the raised end of the brown locking clip to push it out of the mounting clip. It is recommended to push on the locking tab with the flat of a screw driver or some similar tool. With the locking tab removed, gently push on the mounting clip to force it out of the square hole in the tee. The mounting tab and locking clip can be disposed of, or set aside for future use.

Step 15:

Secure the main tees in place using the 90° angle brackets supplied with the ceiling system. Using one (1) sheet metal screw in each face, connect the bracket to the wall mold and to the main tee.

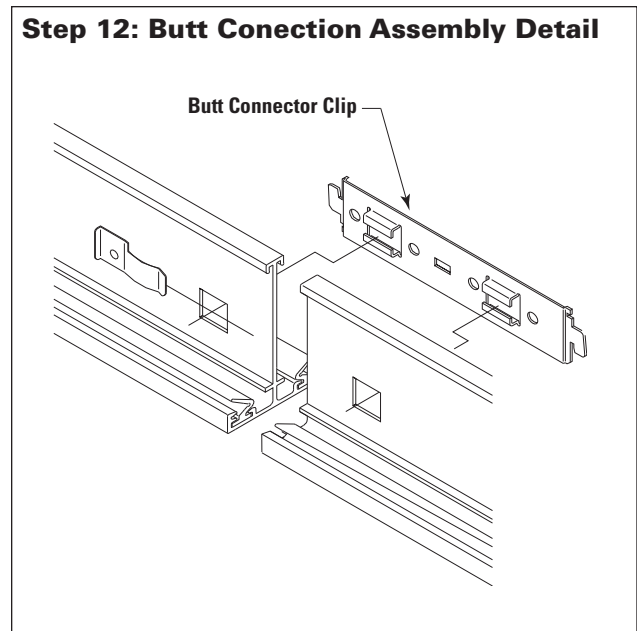
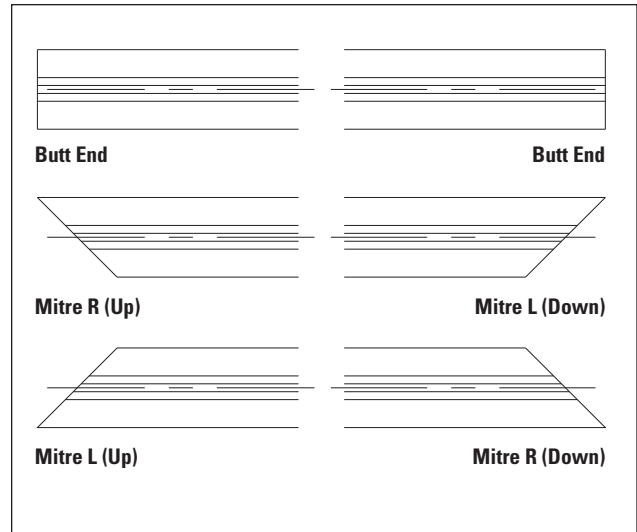
Step 16:

Install the ceiling panels. Angle the panel to pass it through the opening then lower it so that it rests evenly on all four (4) tees.

- Unitee CR Ceiling systems: each panel is held in place using a hold down clip. Insert the short end of the clip between the panel and the tee, compress the clip with your fingers and insert the longer end of the clip under the Unitee CR tee cap, slowly release the clip. Hold down clips should be installed on all sides of the panel. On each side, the first clip should be installed no more than 12" from the corner of the panel, the next clip should be no more than 24" from the first clip. Clips must be installed on main tees, cross tees and wall mold. The last ceiling tile installed should be the access type. If the access panel is not ordered it is recommended that at least one tile be left unclipped to allow access to the ceiling space. To compress the tee gasket, some weight, approx. 2 lbs., must be added to the unclipped panel. A piece of 5/8" drywall cut to the size of the inside of the panel has been shown to work.

Step 17:

Refer to specific manufacturer's recommended installation procedures for all lights, diffusers and other ceiling mounted equipment.



Installation - Unitee, Unitee CR

them snugly together. Straight angles (90°) can be butted together in corners as an alternate.

Step 8:

Stretch a string across the room at the ceiling height in the location where each main tee is to run.

Step 9:

Install eye screws at 4 ft. intervals along each of the main tee string lines, then attach the hanger wires. The hanger wires should be long enough to extend approximately 6" below the string line. Twist the screw eyes tightly into the substrate.

Step 10:

Bend each hanger wire at a 90° angle approximately 1" above the string line.

Step 11:

Pull each hanger wire through the round hanger hole on each main tee. Confirm the main tees are level by checking the string line. After the tees are level, bend the hanger wire up and twist the ends around three (3) to four (4) full turns to secure it. If the main tee hanger hole is not directly beneath the hanger wire, lengthen the hanger wire as required to reach the closest hanger hole.

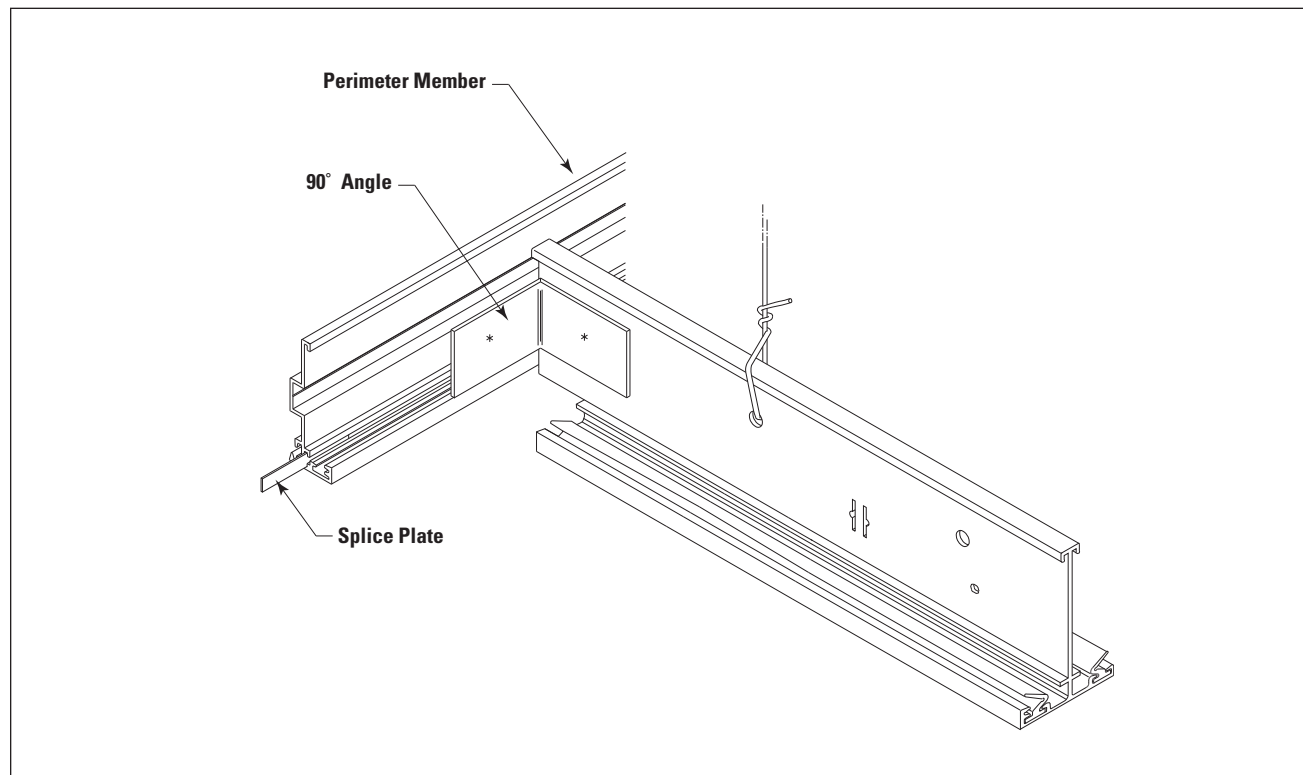
Step 12:

Where the room length exceeds the single piece length for the main tees, two (2) or more tees must be butted together. Line up the butt ends of the two (2) adjacent tees. Inset the raised portion of the butt connection clip into each of the square openings on each main tee and slide the locking clips into place on each tee.

Step 13:

Install the cross tees. The cross tees are positioned according to the factory punched regimentation made in each cross tee. Cross tees are supplied with the tee bar mounting clips already installed on each end. Insert the end of the tee bar mounting clip into one of the two (2) regimented slots of the main tee and press down. The tee will click into place flush with the main tee. Repeat for the opposite end of the cross tee.

NOTE: IT IS IMPORTANT TO REMEMBER, IF YOU INSERT



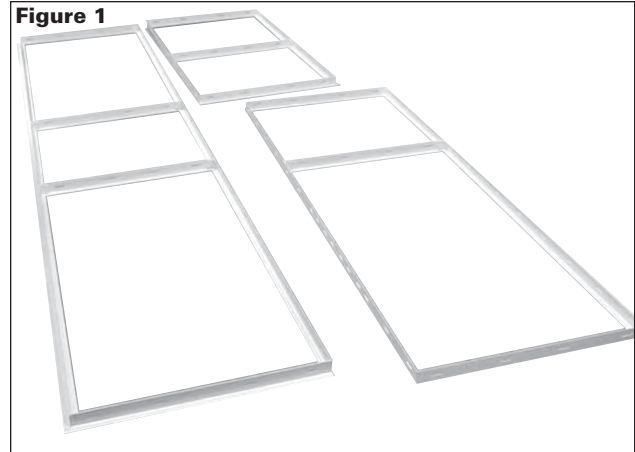
Installation - Unitee HDCR

Step 1:

Figure 1

Welded sections up to size 10ft x 5ft, factory painted, and lined with thick gaskets are delivered to the job site. Ceiling panels (if on order) and mounting hardware is shipped loose. Examine the shipment for any visible damage and assure all sections are accounted for.

Job specific submittals prepared by Price factory prior to manufacturing should be available and followed during installation to help identify location and arrangement of specific ceiling sections.



Step 2:

Figure 2

For faster installation and proper seal, it is strongly recommended that the welded ceiling be surrounded by horizontal plaster perimeter ceiling. Opening in the plaster perimeter ceiling should be cut to match overall welded ceiling dimension shown on submittals with additional 1/4" clearance. Assure the opening has square corners and clean cut, flush edges.

Figure 3

Wall to wall installation is also possible but not recommended. Surrounding drywall structures are usually not perfectly square. Welded ceiling structure has no flexibility and cannot be trimmed or otherwise modified to fit existing conditions. Most likely modifications to the perimeter wall, and drywall bulkheads will be required to match the welded ceiling. All of the site modifications are the responsibility of the installer.

Figure 4

In case of wall to wall installation the order of mounting ceiling sections is important. It is recommended to start working from one corner of the room diagonally towards the opposite corner (A). Alternatively working from the center of the room towards the walls is also recommended (B). This method allows to trim or shim drywall walls if they are not perfectly square.

Do not install complete perimeter first (C), since no modification to the ceiling center itself is possible.

Figure 2

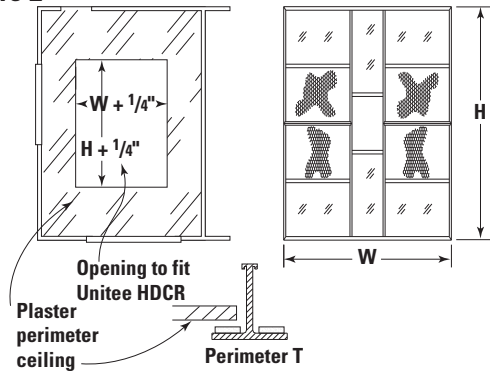
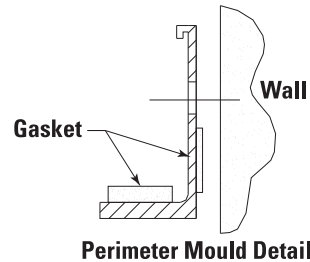


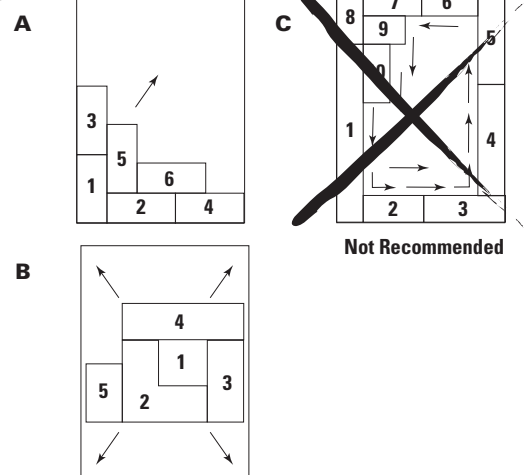
Figure 3



Step 3:

The Unitee HDCR ceiling can be installed at any height, as long as a minimum 3" clearance is maintained below the lowest air duct, pipe or beam. This clearance is required for the installation and removal of ceiling panels.

Figure 4

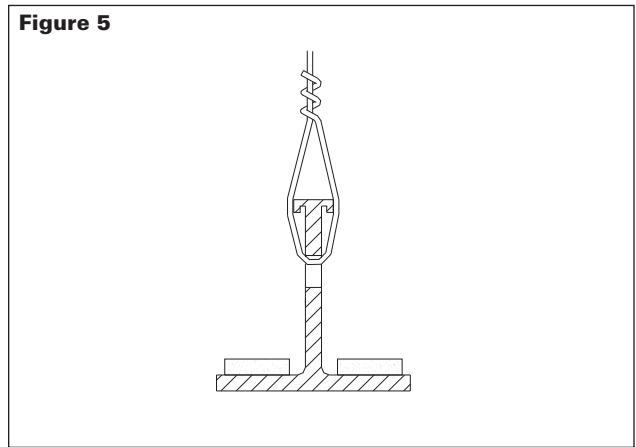


Step 4:

Coordinate location of hanging wires so they align with welded ceiling tees and are **spaced at every foot**. Note, the ceiling tees are pre-punched at least 6" to accept the hanging wires. The wires should be long enough to extend at least 6" below the ceiling face.

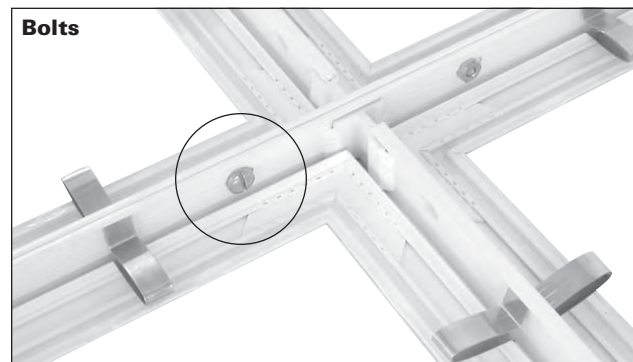
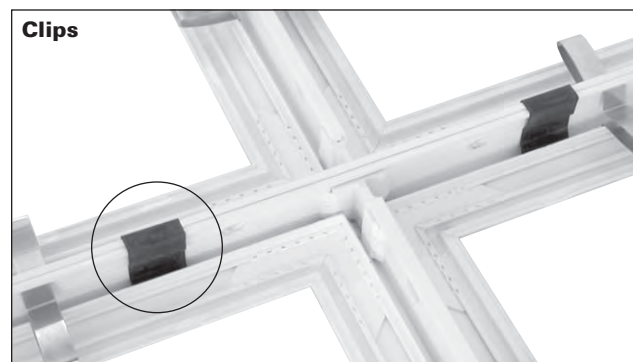
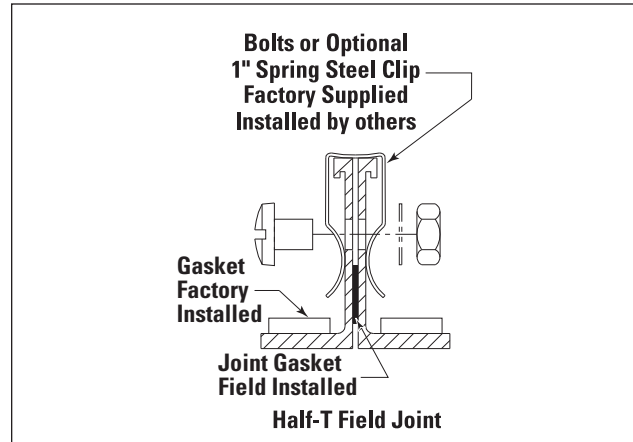
While hanging each ceiling section pull the wires through the oblong holes provided on each tee. First attached the wires in 3 or 4 corners, confirm the section is level than bend and twist the wires. Subsequently secure all other wires supporting the whole section and double check that the section is still level.

If a hole is not directly beneath the hanger wire, lengthen the wire as required to reach the closest hanger hole.



Step 5:

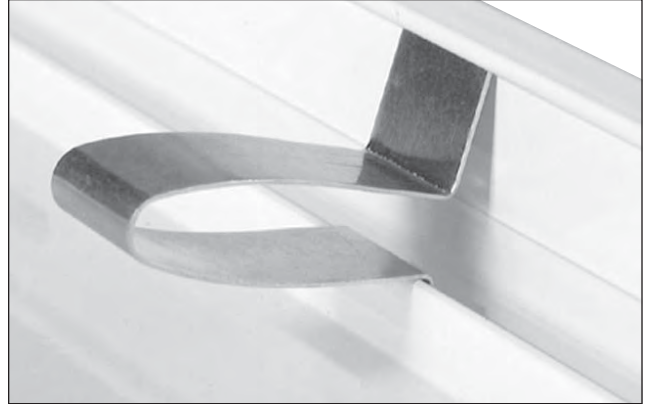
After the sections are hung with wires, clip them together or fasten with bolts. Clips to be installed no more than 12" from joints and 24" from other clips. The clips or bolts are factory supplied. Apply layer of gasket on half tees below bolt holes at all field joints to secure perfect seal (A).



Step 6:

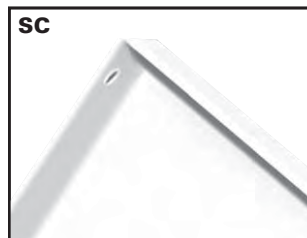
Install ceiling panels using hold down clips as illustrated. Hold down clips shall be installed on all sides of the panel. On each side, the first clip shall be installed no more than 12" from the corner of the panel, the next clip shall be no more than 24" from the first clip.

It is recommended that the last panel installed have an access door. If a panel w/access door has not been ordered it is recommended that the last panel be left unclipped to allow access to the ceiling space. To compress the gasket and maintain a proper seal, apply some weight - approx. 2lbs., on the last panel (e.g. piece of drywall matching the panel innersize).

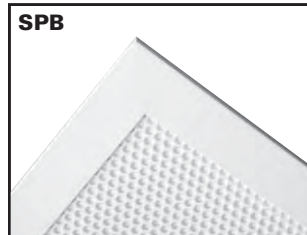


Ceiling Panels

SC is an aluminum ceiling panel with B11 finish. The SC series panels allow the ceiling to have the same durability as the T-bar and accommodates easy cleaning. The SC panel can be ordered with an access door (AD option). The access door features 1/4 turn fasteners to provide an opening for service or removal of clipped in panels.



SPB is a perforated-face ceiling panel that has a sealed backpan. The SPB gives the same appearance as a laminar flow diffusers. Standard finish is B11. The panel is available with 51% perforation to match Price HEPA filtered diffusers or with 13% to match Price non filtered diffusers.





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