LR Grid Cleanroom Grid

Installation Instructions



PART 1 - STORAGE AND HANDLING

- 1. After receiving materials, transfer material immediately to a safe, dry, climate-controlled place where it will not be damaged during storage.
 - a. Do not store Gordon, Inc. product or components outdoors.
 - b. Store Crates and / or Cartons flat in a dry location away from activity.
 - c. Do not store near corrosive material such as acids, salt, fertilizer, etc.
 - d. All materials should be protected during site storage to prevent damage to the finished work from other trades.
 - e. Store materials inside a well-insulated area, away from concrete and masonry and protected from the weather, moisture, soiling, abrasion, extreme temperatures and humidity.
 - f. Protect the strippable protective covering on metal panels from exposure to sunlight, heat, and high humidity.
 - g. Store product in Gordon's unopened packaging until installation of product.
 - h. Prevent contact with material that may cause discoloration, staining, or corrosion.
 - i. Store in flat, fully supported position.
 - j. Store to prevent twisting, bending, abrasion, scratching, and denting.
 - k. Do not drop or stand containers on edges or corners.
 - I. Gordon, Inc. components and systems are not packaged to receive the load of any other material stored or stacked upon it. Therefore, DO NOT DOUBLE STACK OR STORE OTHER MATERIAL on top of the packages or crates.
- 2. Inspect all material prior to installation. <u>Do not install any substandard or unacceptable material</u>. Gordon, Inc. will not be responsible for the cost of repair or removal, or costs resulting from removal of rejected material, or the installation of replacement material.
- 3. Material should be cleaned thoroughly prior to installation.

PART 2 - INSTALLATION

LR Series Grid shall be installed in accordance with ASTM C-636, "Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Ceilings". Below is the recommended installation sequence.

2.01 - APPLICABLE CODES AND STANDARDS FOR INSTALLATION

- 1. Project Specifications
- 2. Architect approved Shop Drawings
- 3. American Society for Testing and Materials (ASTM)
 - ASTM C-636: Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Ceilings

2.02 - SPECIAL TOOLS REQUIRED

Channel-Lock or other adjustable-type pliers

2.03 - INSTALLATION SEQUENCE

Step 1:

Position the Perimeter Wall Angle, or Perimeter Tee, at the proper ceiling height. Make sure that the Wall Angle, or Perimeter Tee notched 24" O.C., runs parallel to the Main Tee and the one notched 48" O.C, runs in the perpendicular direction. After determining the correct starting point, the point where the first notch occurs, attach the Wall Angle using conventional drywall fasteners such as screws or nails. Use the hanger wires with the LR Hanger Clips** for the Perimeter Tees to secure them in the required positions.

**NOTE: LR Hanger Clips are used to provide improved clearance for fixtures around hanger wire connections. Hanger Wire may be attached directly to the LR Tee, if there are no clearance issues or concerns.

Step 2:

Once the Wall Angle, or Perimeter Tee, is installed, position the first run of Main Tees into the first notch on the Wall Angle, or Perimeter Tee running perpendicular to the Main Tee. Care should be taken to align the notches on the Main Tee with those on the Wall Angle, or Perimeter Tee. Once the first Main Tee is in position, secure the Main Tee to the hanger wire using the LR Hanger Clips spaced a maximum of 48" O.C. Install the second Main Tee in the same manner.

<u>Step 3</u>:

After securing the Main Tee with the hanger wires, connect the Main Tee to the Wall Angle using 90ACA Clips and fasteners/screws. See Figure A for reference. When using Perimeter Tees, use a LR 1-Way Clip to fasten the Main Tee to the Perimeter Tee. Insert the 1-Way Clip into the 1/2" x 1/2" square hole punched into the web of the Perimeter Tee. Tabs of the Clip should insert into the 1/8" x 1/2" vertical slots punched into the ends of the Main Tees. Bend the tabs of the Clip toward the ends of the Main Tees using finger pressure to start and then pinch flat using pliers. See Figure B for reference. Install the second Main Tee in the same manner.

Step 4:

Next splice the Main Tees together using the Main Tee Splice Clip. Tabs of the Clip should insert into the 1/8" x 1/2" vertical slots punched into the ends of the Main Tees. Bend the tabs of the Clip toward the ends of the Main Tees using finger pressure to start and then pinch flat using pliers. Remove the paper release sheet from the gasket overhanging the ends of the Main Tees. Press the gasket into position taking care that the gaskets touch and form a tight seal (trim the overhanging ends as necessary). Additional Main Tees may now be installed in the same manner using a 4' Cross Tee as a spacer.

Step 5:

After at least two Main Tees are in place, install a 4' Cross Tee between the Main Tees. The ends of the Cross Tees are inserted into the notch on the Main Tee. Remove the paper release sheet from the gasket on the ends of the Cross Tees exposing the adhesive. Press the gasket down onto the flange of the Main Tee making certain that the gaskets touch (trim the overhanging ends as necessary).

Step 6:

With a Cross Tee in place on one side of the Main Tee, insert the LR 2-Way Clip into the 1/2" x 1/2" square hole punched into the web of the Main Tee. Rotate the Clip into the hole and keep the Clip at an angle to the Cross Tee. Do not rotate the Clip back to the parallel position yet.

<u>Step 7</u>:

Repeat Step 4 above until two (2) Cross Tees are in place on either side of the Main Tee. Now rotate the LR 2-Way Clip into parallel position with the Main Tee. The tabs of the Clip should insert into the 1/8" x 1/2" vertical slots punched into the webs of the Cross Tees. Start bending the tabs of the Clip toward the Main Tee using finger pressure at first, and then pinch flat using pliers.

<u>Step 8</u>:

Verify the position of the Cross Tees in relation to the LR Wall Angle, or Perimeter Tee. Once this alignment is verified, all of the Main Tees and all of the Cross Tees may be installed using the same method described above.

PART 3 - ILLUSTRATIONS

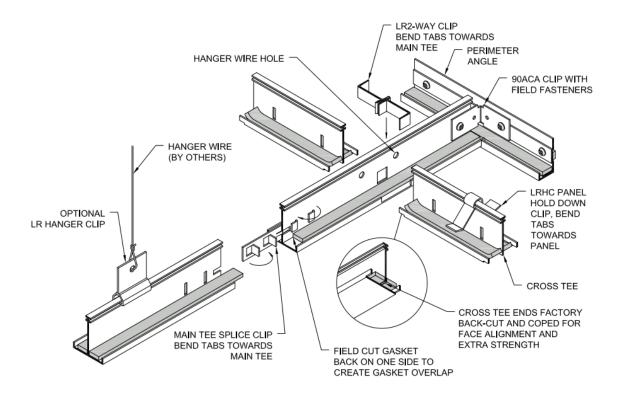


Figure A: LR Series Grid with Wall Angle Condition

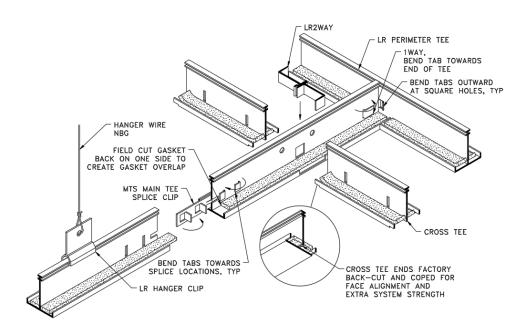


Figure B: LR Series Grid with Perimeter Tee Condition



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