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LINEAR LIGHTING INTEGRATION

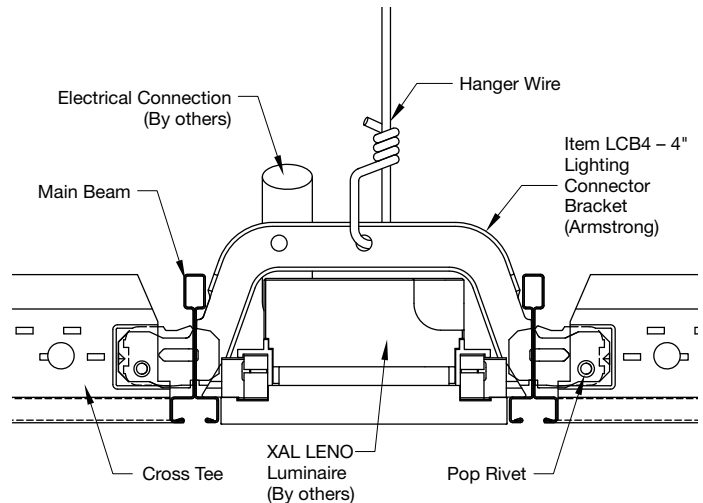
Suspension System Layout & Installation

Instructions for XAL LENO Lighting Fixture

INSTALLATION OVERVIEW

The following installation instructions & drawings provide general guidance on the layout and construction of "On-Center" linear lighting for continuous or discontinuous runs of 4" wide zero plenum lights from XAL:

- 9/16" face Silhouette® 1/4", Silhouette 1/8", Suprafine®, and Interlude® suspension systems
- Standard and FastSize™ Optima®, Ultima®, and Calla™ ceiling panels with a tegular edge detail.



Below is an overview of the ceiling system components required to complete one of the described on-center ceiling layouts.

Note: Not all of these components are required in every on-center linear lighting layout illustrated below.

1. Grid adapters
2. Non-standard cross tees with special rout hole spacing.
(NOTE: Cross tee length is dependent on the on center space of the ceiling grid opening for lighting)
3. Non-standard length main beams.
(NOTE: Main beam length is dependent on the length of the linear lighting)
4. Pre-engineered special length cross tees.
5. Lighting connector bracket
6. Standard 12' main beams
7. Standard 2' and 4' cross tees
8. Standard wall angle molding
9. STAC clips
10. Ceiling tiles (FastSize and Standard Sizes)

NOTE: Pop-rivets, screws and hardware required for attaching to structure are purchased from other manufactures.

Most building codes require non-structural building components to be restrained. Armstrong also recommends restraint in accordance with local building code requirements. Please consult with the building code professional having jurisdiction over the project to determine appropriate restraint requirements for this installation.

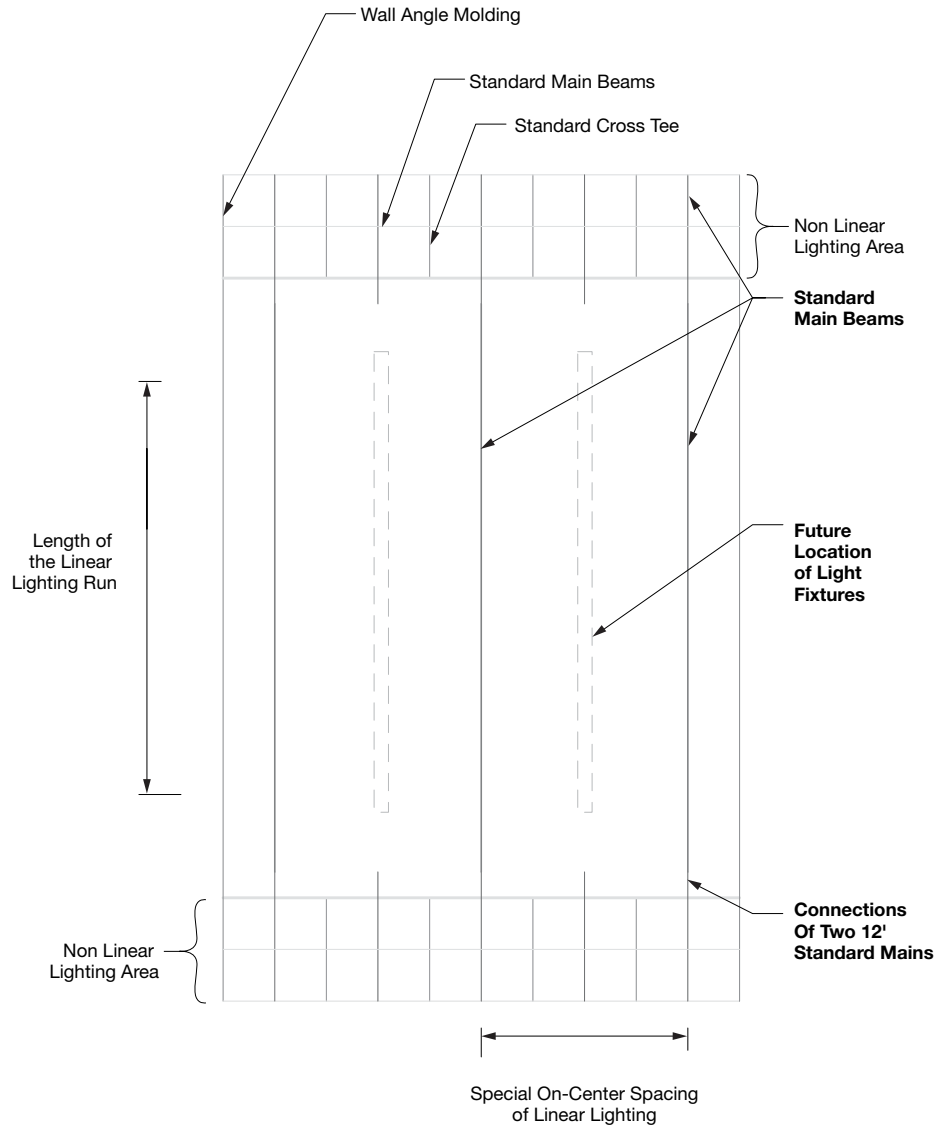
Study the layout of the ceiling and verify that all of the ceiling grid components are available on site for the installation. Note that some ceiling grid components may be unidirectional. Contact your local Armstrong distributor to request replacement, additional or missing ceiling grid components.

1. INSTALLATION MAIN BEAMS

1.1 Install standard 12' main beams at a predetermined on center spacing as shown on the RCP (most likely an 8' or 10' on center spacing, the on center spacing of the mainbeam will be driven by the on-center layout of the lights).

1.2 At this time, do NOT install the non-standard main beams, grid adapters, or cross tees located adjacent to the lighting fixture ceiling opening.

1.3 If applicable connect these 12' main beams to other 12' main beams located on 4' centers in non-linear lighting areas.

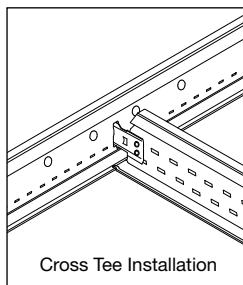
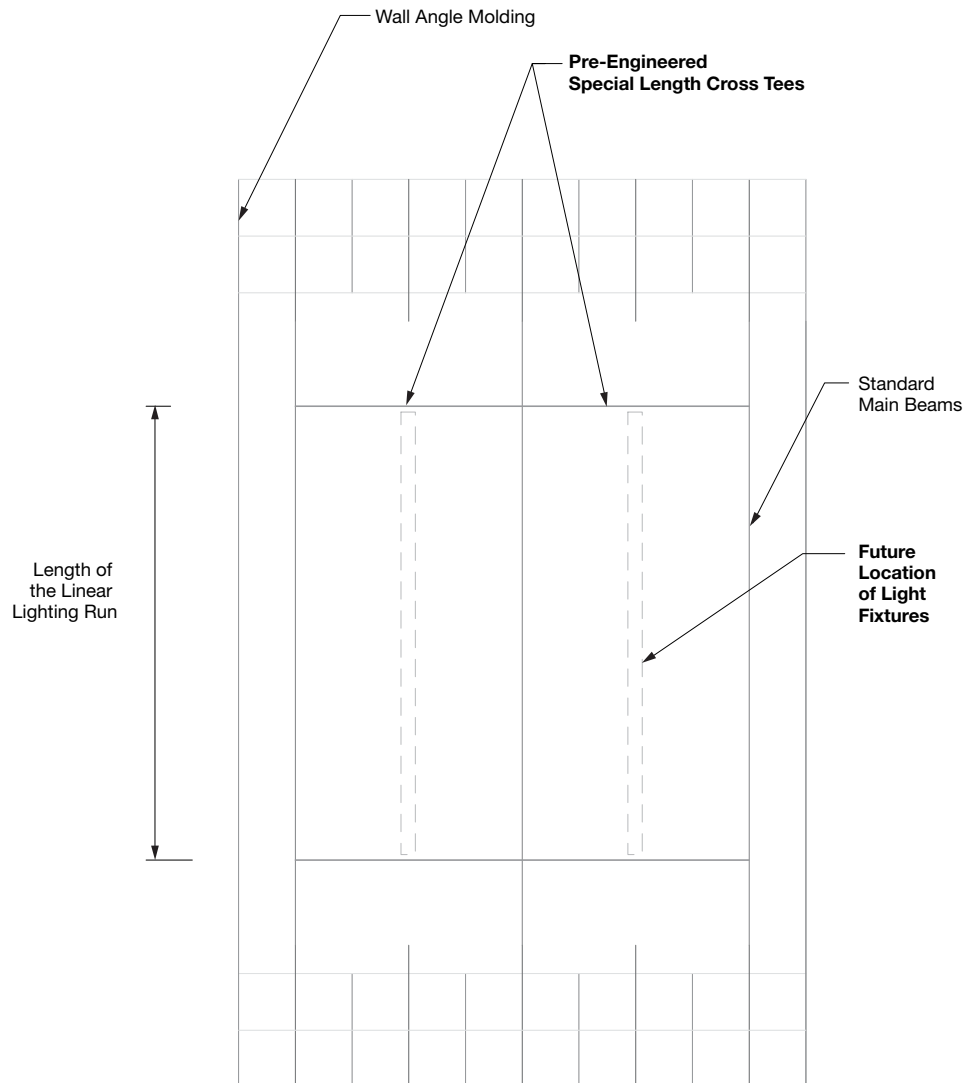


2. INSTALL INSIDE CROSS TEES

2.1 Install one pre-engineered special length cross tee at either end of the future lighting opening.

2.2 Pre-engineered, special length cross tees should be installed perpendicular to and intersect with the 12' long main beams installed in step 1.

2.3 Please note the special rout hole spacing and the unidirectionality of these pre-engineered, special length cross tees and be mindful of the miter locations on these grid components when working with Silhouette grid.

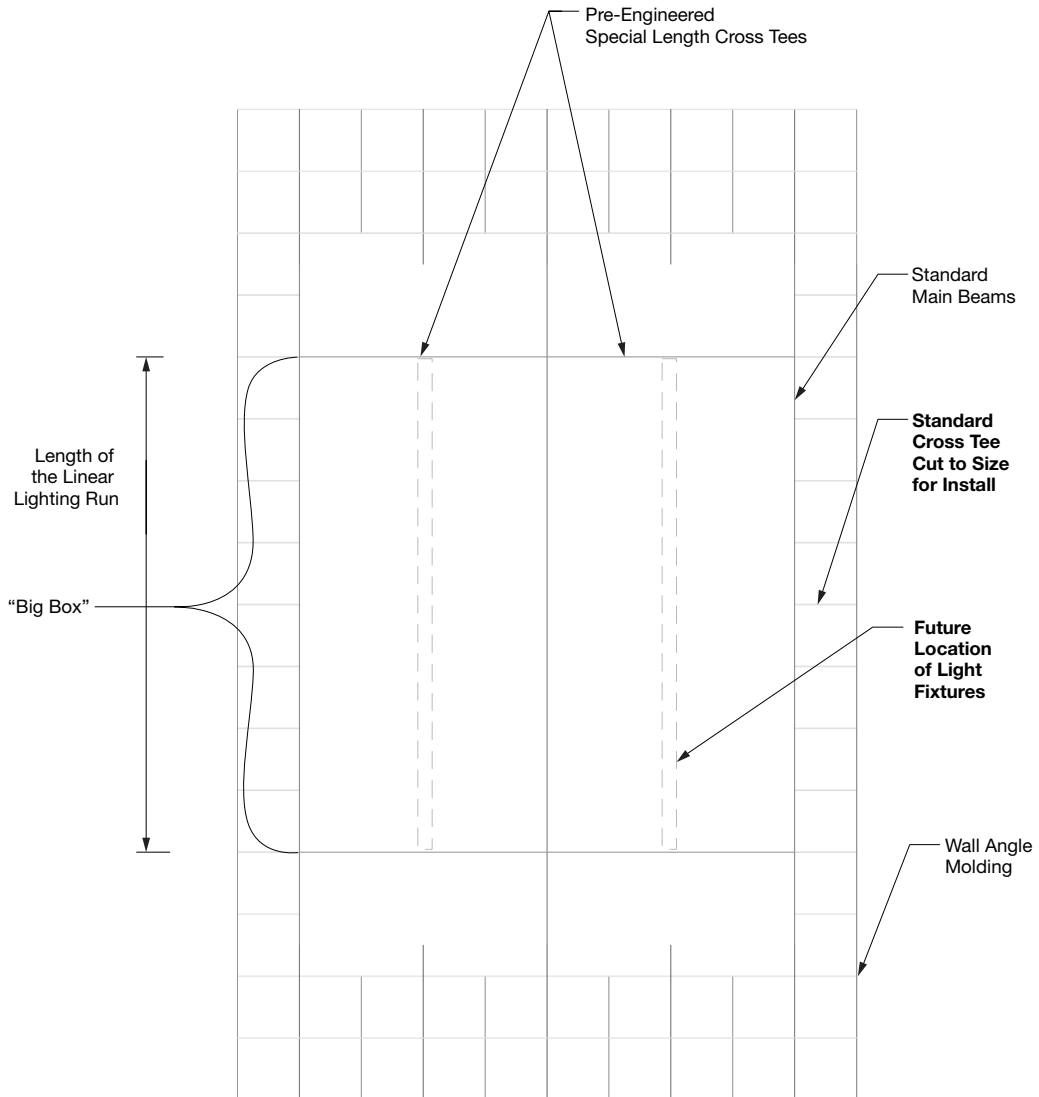


3. INSTALL OUTSIDE CROSS TEES AND SQUARING THE CEILING

3.1 At this point perimeter cross tees can be installed outside of the “big box”, created in steps 1 and 2, and attached or temporarily secured to the wall or perimeter angle molding to verify the ceiling is square.

3.2 The “big box” or a connected standard ceiling will have to be used to square up the ceiling.

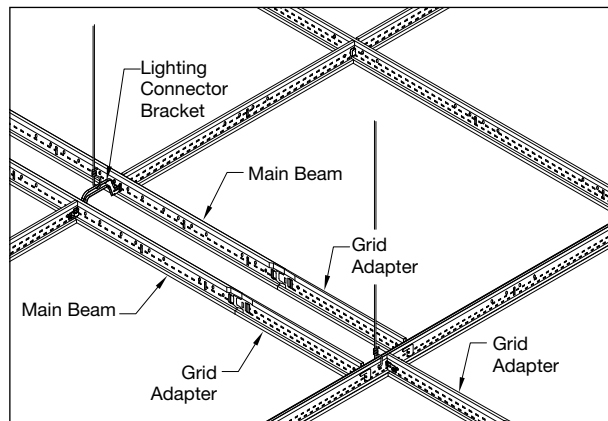
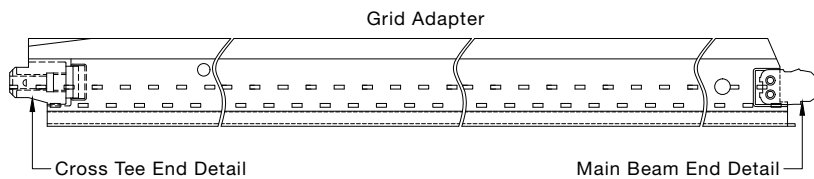
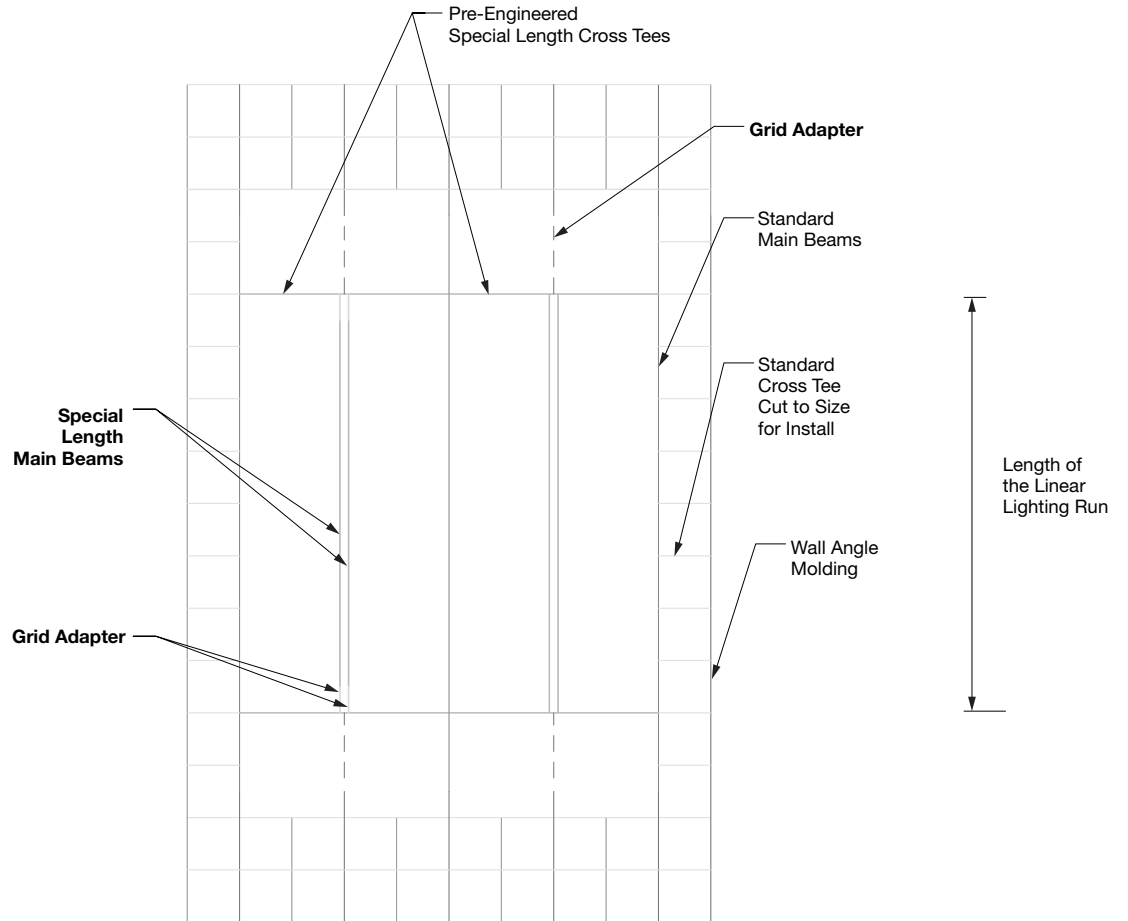
3.3 Make any and all necessary adjustment to square up the ceiling structure.



4. INSTALLATION MAIN BEAMS & LIGHTING BRACING

4.1 Install pre-engineered special length main beams, cross tees and suspension adapter components to create the continuous linear lighting opening.

4.2 Please note the special rout hole spacing of these pre-engineered special length main beams, and cross tees and be mindful of the miter locations on these grid components when working with Silhouette® grid.



5. BRACKETS FOR LIGHTING INTEGRATION

5.1 The lighting connector bracket is installed every 4 feet starting 2 feet in from the end of the linear lighting opening.

5.2 The lighting connector brackets install through the round holes on the special length main beams or cross tees running parallel to the continuous linear lighting opening and connects with the special length cross tees being installed perpendicular to the continuous linear lighting opening.

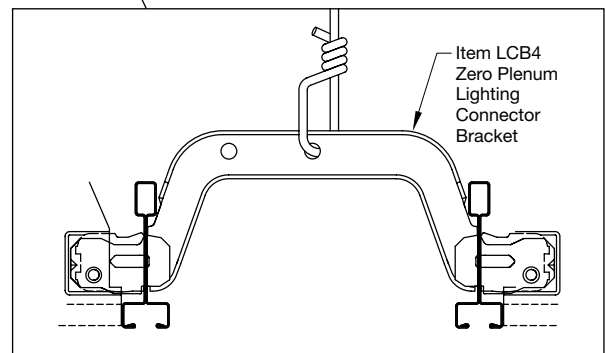
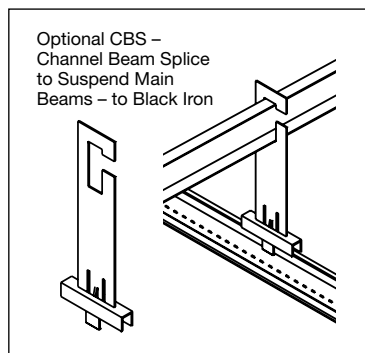
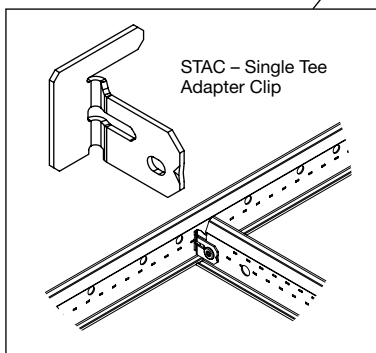
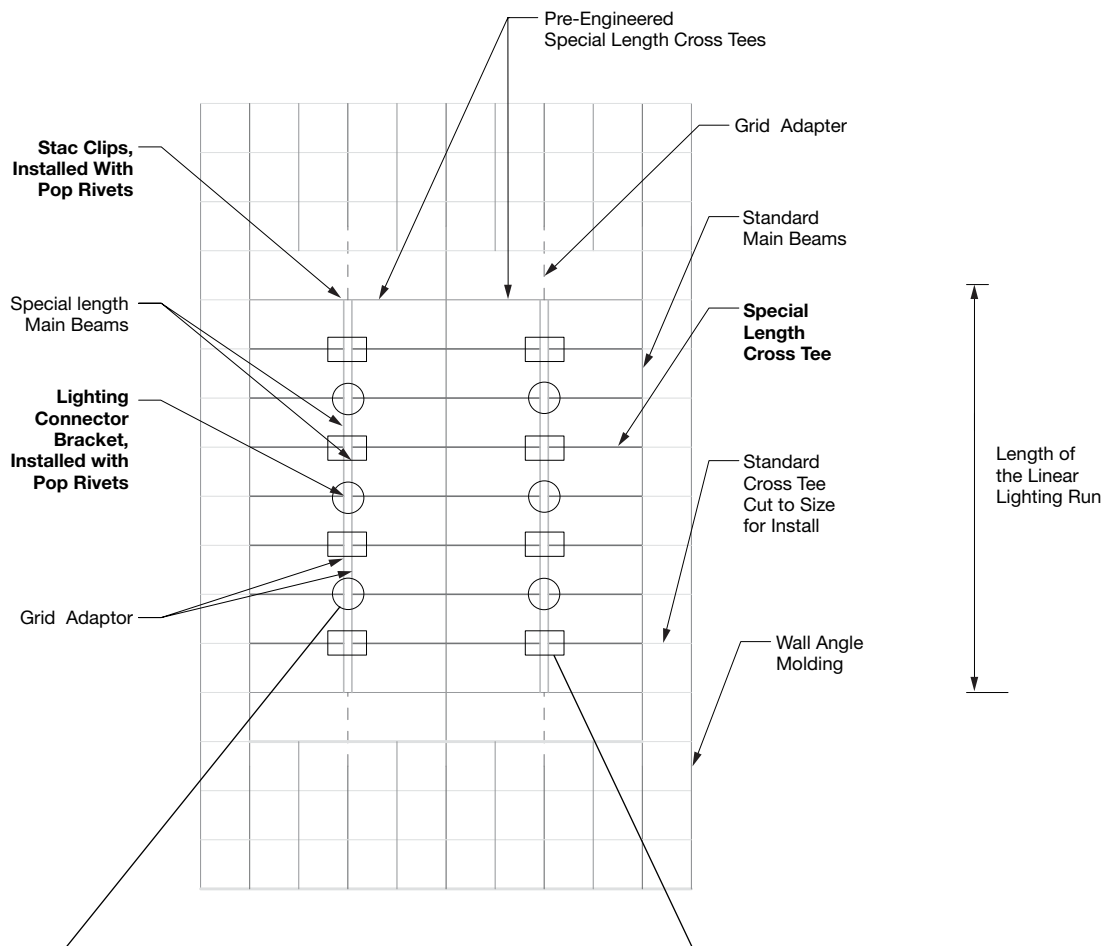
5.3 The lighting connector bracket is hung from a standard hanger wire and gets connected to the perpendicular special length cross tees via one 1/8" pop rivet.

5.4 Proper installation requires the rivet to be installed through the hole in the special length cross tee first and then into the lighting connector bracket.

5.5 NOTE: When black iron is used to support/suspend the ceiling, Channel Beam Splice (CBS hangers) shall be used to support the ceiling system. Install CBS hangers on the suspension system components running parallel to the lighting, and connect to black iron, spacing of the CBS hangers shall be as required by local code. Lighting connector brackets may still be used to connect to the cross tees running perpendicular to the lighting fixture, but no hanger wire is needed on the LCB when using the CBS hangers.

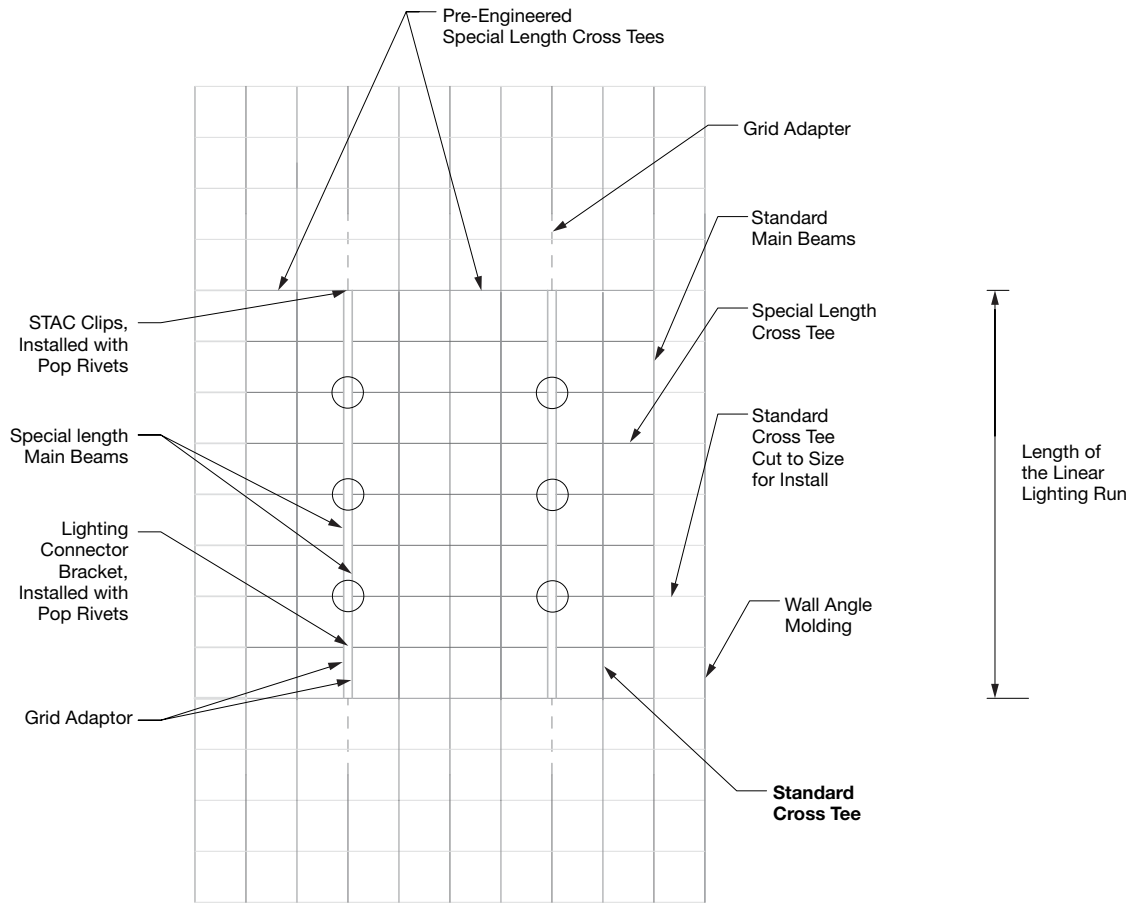
5.6 The special length main beams being installed perpendicular to the continuous linear lighting opening which do not intersect with the lighting connector bracket need to be secured with an STAC clip and single pop rivet.

5.7 Proper installation requires the rivet to be installed through the hole in the special length cross tee first and then into the STAC clip.



6. INSTALL REMAINING CROSS TEES

6.1 Install the remaining standard length cross tee to complete the ceiling layout and ceiling tile openings.



7. INSTALL CEILING TILES

7.1 Install ceiling tiles. Some ceiling tiles will not be of the standard 24" x 24" or 30" x 30" size, specifically the ceiling tiles located adjacent to the continuous linear lighting opening. Armstrong has these special size ceiling tiles available for purchase.

7.2 Please contact your local Armstrong Distributor or local Armstrong sales rep for assistance.

7.3 Coordinate the installation of the ceiling tile with the electrical contractors as they will need to install an electrical drop(s) for the lighting fixtures.

8. INSTALL LIGHT FIXTURES

8.1 The electrical contractor will install the continuous linear lighting fixtures and make all required electrical connections.

9. SEISMIC INSTALLATION

9.1 Other lighting fixture installed in an Armstrong ceiling in accordance with these installation instructions does not need to be independently restrained or supported to the structure. Testing was conducted at the Structural Engineering Earthquake Simulation Laboratory located at the State University of New York – Buffalo campus where the lighting fixture was held in place by the door latching mechanisms and the lighting connector bracket and satisfactory results were produced.

10. DRYWALL LINEAR LIGHTING OPTIONS

10.1 For drywall linear lighting information use BPCS - 5367. For basic installation instructions use BPLA - 298521.