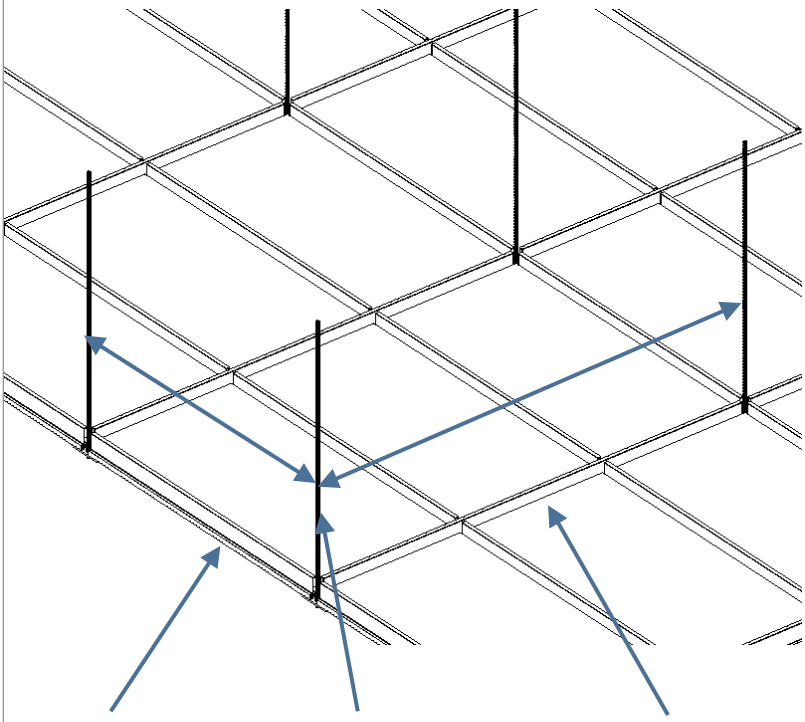
PICS - Polargy Integrated Ceiling System Data Sheet

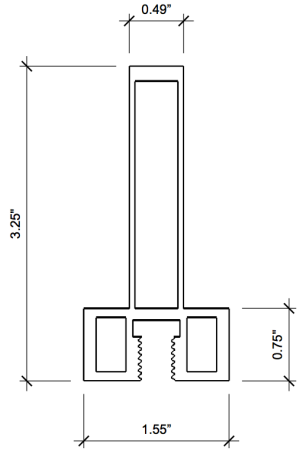
February 18, 2018

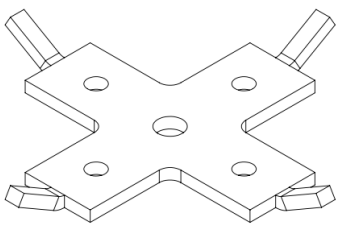


4’ Cross Tee

Rod hangers to roof spaced at 4’ x 6’

6’ Main Runner





PICS SPECIFICATIONS

- Structural data center ceiling grid made of aluminum with bottom side that has a 3/8-16 continuous threaded slot.
- Grid configured of 6’ Main Runners and 4’ Cross Tees connected using bottom plate connectors.
- Capable of supporting power bus bar, light fixtures, cable trays, aisle containment partitions, and other accessories.
- Load performance based on building roof connection spacing of 6 ft. x 4 ft. on center.
  - Max grid point load at midspan of 400 lbs
  - Max grid uniform load of 38 lbs/ft^2
- System Weight = 2’x4’ Grid: 0.875 lbs/ft2
- Grid member center-to-center spacing can be designed to accommodate project specific requirements.

MAIN EXTRUSION

- H 3.25” x BTM 1.55” x TOP 0.49”
- 6063-T6 Anodized Aluminum
- Tall box profile for strength
- 3/8-16 screw slot threaded boss runs continuously along bottom
- CeilingTiles & Lights (supplied by others)
- Threaded Rod Connection to Building (supplied by others)

PLATE CONNECTORS

- Galvanized steel at 0.25” thick
- Main plate body is 5 3/16” x 5 3/16”
- Connector tabs to engage with threaded slot on Main Runners and Cross Tees to prevent racking
- Attaches to grid members with (4) 3/8-16 x 3/4" Hex Top Bolts
- On site modifiable connectors for perimeter and corner installation.

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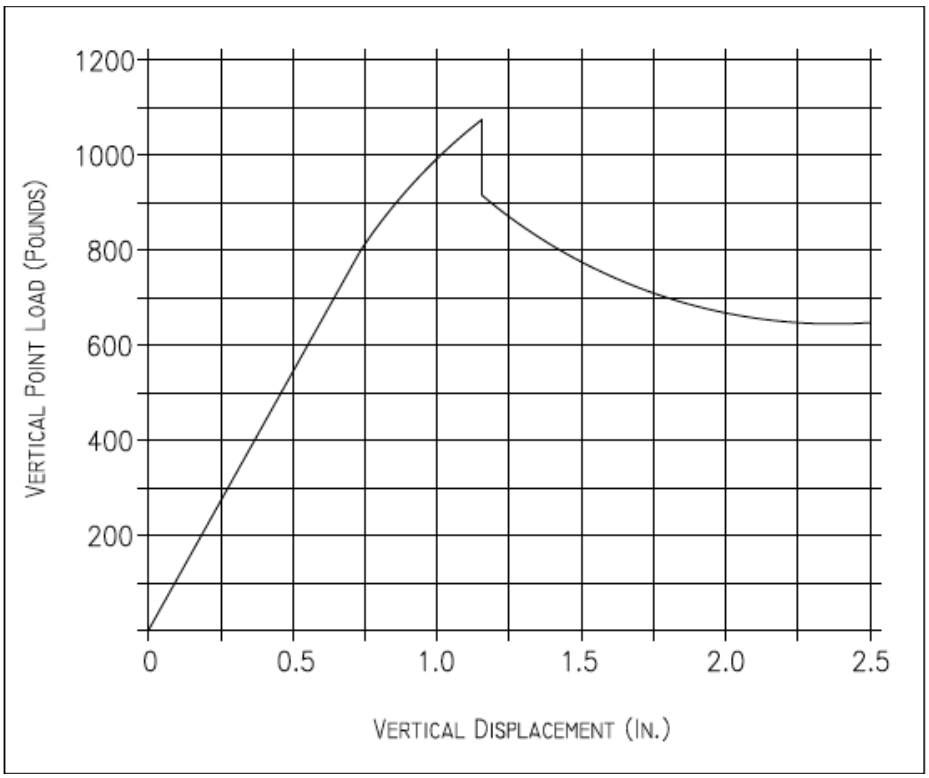
PERFORMANCE CRITERIA

The chart shows defection testing results and the table below shows load performance ratings.



Yield Point 800 lbs

Failure Point 1053 lbs

Performance Criteria	Main Extrusion Performance	Bottom Slot Pull-Out Performance
Point Load	400 lbs	400 lbs
Safety Factor Over Yield	2	
Deflection at Point Load	0.36” or L/200	
Uniform Load	38 lbs/sq ft	
Yield Point Load	800 lbs	
Failure Point Load	1053 lbs	1053 lbs

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1. In-Service and Configuration

a. The Ceiling Grid System as indicated herein is subject to installation exactly as noted by the manufacturer. The installer shall ensure that the Ceiling Grid System installation shall conform to local/or national codes, which ever is more stringent, and that the system be vertically and laterally braced as required by code.

b. Other configurations not indicated herein may not have been designed, analyzed, or tested and as such other configurations are not warranted by the manufacturer to perform as indicated or to be safe for use. If there is a need for a configuration other than what has been indicated herein the manufacturer reserves the right to accept or decline it's use for other configurations. The manufacturer offers analysis of other configurations for in-service use for a fee. The manufacturer reverse the right to accept or decline requests for other configurations.

2. Testing Standards

Testing was performed in conformance with the ASTM Designation C635-13 Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings as modified for load size and bracing conditions for in-service conditions. The in-service use of this system may exceed the arbitrary esthetic limit of deflection of L/360 as stated within the specification for typical non-hybrid systems that are used for lightweight acoustical panels. Test results as indicated were for conditions of the main grid members longitudinally braced at both ends or longitudinally braced at one end, and unbraced for the full length of the member between member ends. Installations with bracing at the ends of the member, and at every 24-inch intervals between member ends may expect better performance than what is represented in the testing results.

3. Design

The information contained herein does not take the place of required engineering calculations, signature, and seal for the support rods and/or connections and lateral bracing requirements per code required for submittal to approving jurisdictions. The designer and/or installer is required to be competent in code requirements for the specific jurisdiction for which the Ceiling Grid System will be installed.