

# Structural Ceiling Tate Duo

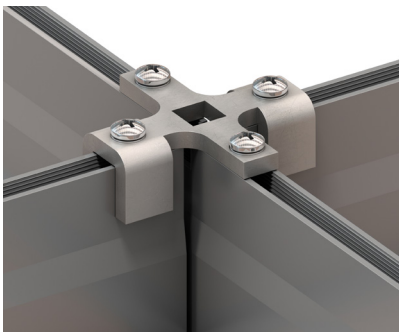


The patent pending Tate Duo offers spans up to 8' between connections to the building structure, increasing flexibility with fewer connection points.

Tate Duo also features a two-layer continuously threaded slot on the underside of the extrusion so that multiple threaded rod diameters may be used for hanging different equipment within a building.

## Key Performance Characteristics

- Multiple grid patterns and configurations are available
- Replaces custom-built on-site structural support systems such as strut
- Fast and easy to install
- Eliminates the need for multiple trades on-site
- Experienced data center manufacturer and contracting teams

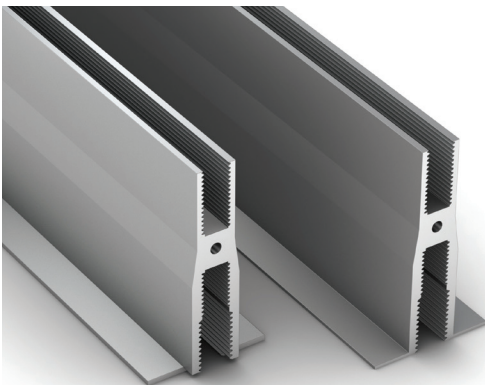


## Structural Ceiling Features and Benefits

Tate Duo has been engineered with alignment features that make it quick and easy to install. The Field Connectors feature a U-slot that fits over the top side track of the grid. Spacing and alignment are simplified by using locating notches in the Mains and Tees, which allow the connector to be perfectly aligned before fastening tight to the grid.

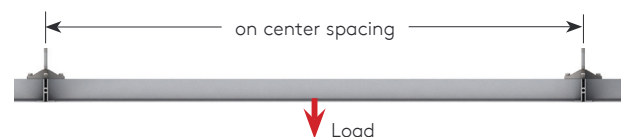
- Main Runners with notches for precise location and connection of coped Structural Tees using simple four screw connectors
- Grid member center-to-center spacing can be customized to accommodate project-specific specifications
- Available in White, Black or Silver painted finish

## Dual Threaded Bottom Track



Patent pending pre-engineered and factory-produced aluminum structural ceiling grid with a dual continuously threaded slot  $\frac{3}{8}$ "-16 and  $\frac{1}{2}$ "-13

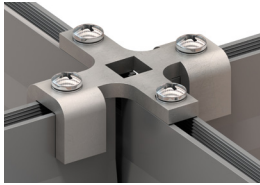
## System Load Performance



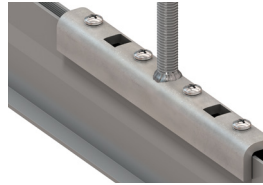
On center spacings	Uniform load lbs/ft <sup>2</sup>	Max. allowable deflection	Max point load lbs
4'	225	0.40"	800
5'	144	0.40"	500
6'	100	0.40"	400
7'	73	0.40"	250
8'	56	0.40"	150

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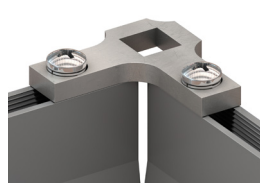
## Connector Types



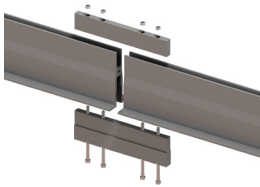
Duo Cross Connector



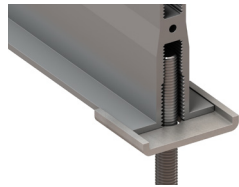
Duo Hanging Connector



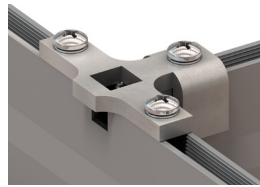
Duo L Connector



Duo Main Splice



Duo High Load Washer

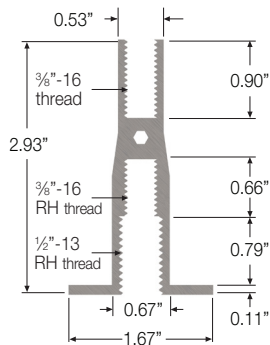


Duo Tee Connector

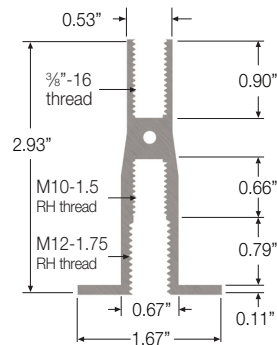
## Connector Specifications

- High strength stamped steel construction
- Ribs on connector to engage with grid and prevent racking
- Attaches to grid members with (4)  $\frac{3}{8}$ "-16 screws
- $\frac{1}{2}$ "-13 turnbuckles with starter rod threads into connectors on a 4'-8' spacing
- Tee and Corner connectors for perimeter installation

## Tate DUO Structural Ceiling Extrusions

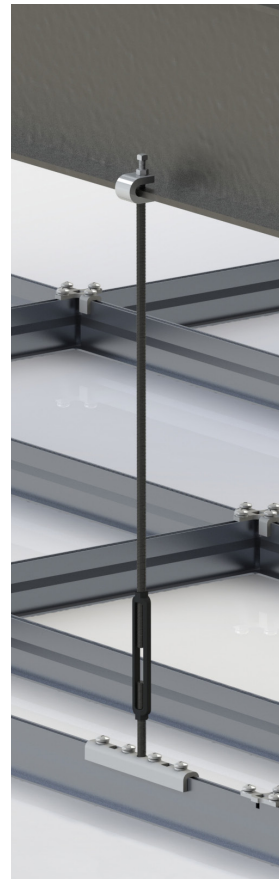


3/8"-16 & 1/2"-13 Bottom Slot

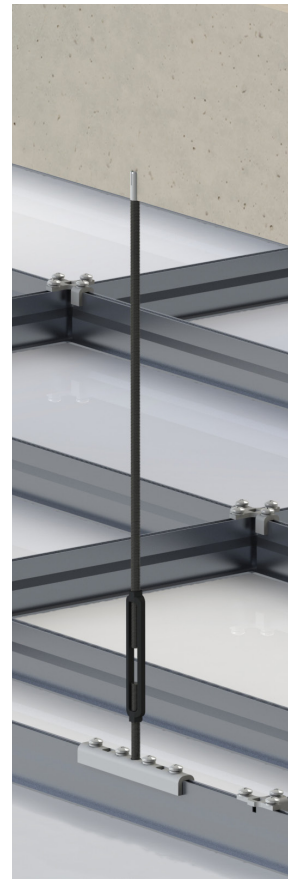


M10 & M12 Bottom Slot

## Tate Duo Hanging Methods



Tate Duo hanging method from steel building



Tate Duo hanging method from concrete building

## Traditional vs Tate Duo Structural Ceiling



Traditional ceilings require an interstitial strut grid for hanging heavy items.



Tate Duo can span distances up to 8' eliminating the need for any additional strut support structures.