Tate Structural Ceiling Grid

GRID SPECIFICATIONS
- Aluminum structural suspended ceiling grid system
- 600mm x 600mm or 600mm x 1200mm centered grid system with continuous threaded ¼”-20 slots
- Capable of supporting HVAC, Light Fixtures, registers, cable trays, utility racks and other accessories as defined by area of installation
- Simple installation with vertically supported flange grid members and four screw connectors
- Max static point load from grid down of 172 kg.
- Max uniform load from grid of 244 kg./m².
- 3600mm Main Runners and 1200mm Structural Tees factory cut with locators on 600mm centers for simple installation
- Accepts ceiling panels and light fixtures (up to 586mm square ± 3mm)
- Clear anodized or white painted finish

CONNECTOR SPECIFICATIONS
- Aluminum structural suspended ceiling grid system
- M10x1.5 Threaded turnbuckle connection on a 1200mm x 1200mm spacing on Centers
- On site modifiable connectors for perimeter installation
- 362 kg. point load connection to building structure.
- Ribs on connector to align with grid and on 600mm center and prevent racking
- Field connector can optionally be used on bottom slot of 12’ Main Runners and 4’ Structural Tees for heavy duty loads with 3/8” threaded connection
- High strength cast aluminum parts
- Corrosion resistant aluminum finish

COMPONENTS
- 3600mm Main Runner
- 600mm Structural Tee
- 1200mm Structural Tee
- 3600mm Perimeter Angle
- Field Connector
- XL Field Connector
- Perimeter Connector
- ¼”-20 x 1-1/4” Screws w/ ¼” Lock washer
- ¼”-20 to M10x1.5 adapter w/ gasket
- M10-1.5 x 7” long Turnbuckle Assembly w/ Starter Rod
- Hold Down Clips
- Factory Applied Gasket available upon request
3600mm Main Runners notched every 600mm to positively position connectors on center every time.

Ribs on connector to align with Grid and prevent Racking.

XL field connector is designed for additional support at the ends of each 3600mm Main Runner. It is also utilized on Perimeter connections for Floating installations.
**PERIMETER CONNECTOR**

Bottom of Perimeter connector is designed with Ribs that located the connector on Perimeter Angles. Perimeter connector can be cut on site to be used in various locations to connect grid together.

**MAIN RUNNERS AND STRUCTURAL TEES**

600mm and 1200mm Structural Tees have recessed ends which allow the grid to rest on the longer sections for stronger connections.

1200mm Structural Tees and 3600mm field grid sections are notched every 600mm on center for proper alignment and spacing of the connectors.
PERIMETER ANGLES

**Floating Installation Detail**
Main Runners are utilized when installing with a floating detail. When installing with a floating perimeter, Field XL connectors can be utilized to take advantage of the notches and ribs that align extrusions and prevent racking. Additionally it is recommended to utilize a wall angle attached to the perimeter.

**Fixed Installation Detail**
Perimeter Angles are designed to create a clean corner joint assembly. Perimeter Angles can be cut on site to desired length when assembled along perimeter walls. Perimeter Angles can also be bolted directly to the wall with appropriate fasteners for wall type. Note, pre-drilling is recommended and through holes are suggested for simpler light fixture or drop ceiling tile installation.
Perimeter connectors can also be used as heavy duty connectors designed to adapt to M10x1.5 threaded connections from the ¼”-20 tracks. Heavy Duty connections can hold up to a maximum point load of 362 kg. when used in-line with turnbuckle connection to building structure.

Standard duty ¼”-20 to M10x1.5 adapters connect directly to the ¼”-20 tracks. Standard duty connections can hold up to a maximum point load of 172 kg.
600MM X 600MM CEILING GRID WITH
(600MM X 2400MM) TURNBUCKLE LAYOUT AND FIXED PERIMETER

Room
4200.0 mm. x 4500.0 mm.
600MM X 1200MM CEILING GRID WITH
1200MM X 1200MM TURNBUCKLE LAYOUT AND FIXED PERIMETER

Room

4200.0 mm. x 4500.0 mm.

1200mm Structural Tee
3600mm Main Runner
3600mm Perimeter Angle
600mm Structural Tee
Field Connector
Perimeter Connectors
XL Field Connector
Turnbuckle
**TURNBUCKLE ASSEMBLY**

- **Internally Threaded Anchor**
  - Supplied by others

- **RH M10x1.5 Threaded rod and connection to decking**
  - Supplied by others

- **M10x1.5 x 7" Turnbuckle**

- **M10x1.5 LH Threaded Starter Rod into Turnbuckle**

- **M10x1.5 RH Threaded Connection to Field Connector**