A. Structural Grid: Structural Ceiling grid shall be installed with [a Fixed] [a Floating] [no] perimeter angle condition option and on a [600mm x 600mm] [600mm x 1200mm] grid supported with spacing of [1200mm x 1200mm] [600mm x 600mm] connection to structure above:

1.1 Finish & Material:
   a. Main Runners, Structural Tees, and Perimeter Angles shall be constructed of 6005-T5 extruded aluminum and have [Clear Anodized Finish] [Painted White] [Painted Black] finish.
   b. Connectors: Field, Field XL and Perimeter connectors shall be constructed of high strength cast aluminum with corrosion resistant finish which is silver in color.

1.2 Performance: Ceiling system shall be capable of directly supporting cable trays, utilities, light fixtures, HVAC registers and other accessories as indicated per area of work.
   a. Ceiling system shall be capable of supporting a uniform load up to 244 kg./m².
   b. Ceiling system shall be capable of a maximum static point load of 172 kg. with standard duty connector.
   c. Ceiling system shall be capable of a maximum static point load of 362 kg. with heavy duty connector in line with turnbuckle connection to building structure.
   d. Turnbuckle connection shall be capable of a maximum point load connection to building structure of 362 kg.

1.3 Design Features: Structural Ceiling grid shall include the following features:
   a. 600mm x 600mm centered grid system with a continuously threaded ¼”-20 slot.
   b. 3600mm Main Runners and 1200 mm Structural Tees shall be notched on 600mm centers for easy system installation and positive positioning of 600mm Structural Tees.
   c. Connectors to include ribs to align system with grid on 600mm center and prevent racking.
   d. System is capable of fitting 585.7 mm square +/- 3mm) size ceiling tiles, light fixtures and HVAC registers.
   e. Perimeter connector shall be optionally used on bottom slot of Grid for heavy duty loads requiring 3/8” threaded connection.
   f. 600mm and 1200mm Structural Tees shall be cut back for vertical support through flange grid contact to 3600mm Main Runners.
   g. Connectors include M10x1.5 Threaded turnbuckle connections
   h. On site modifiable connectors for perimeter installation.
   i. Connectors shall be constructed of high strength cast aluminum parts.
   j. Field XL Connector shall be utilized for 3600mm Main Runner splice locations.
   k. [Optional gasket]
      i. 3/32” thick x 3/8” closed cell polyethylene gasket tape shall be provided to improve leakage through system at various air pressures.
   l. ¼-20 button head Philips head screws with lock washer shall be utilized to secure connectors to Main Runners, Structural Tees, and Perimeter Angles.
1.4 **Installation:** Structural Ceiling grid shall be installed on a \[600\text{mm} \times 600\text{mm}\] \[600\text{mm} \times 1200\text{mm}\] grid supported with spacing of \[1200\text{mm} \times 1200\text{mm}\][600 mm x 600mm]

connection to decking:

a. Grid spacing shall be defined by installation of 600mm Structural Tees.

b. Support Spacing shall be defined by positioning of turnbuckle connections offset from one another starting from one corner of the interior structural grid assembly and spaced evenly throughout. Additional supports shall be provided as required along the perimeter and at any critical areas or as per seismic or code requirements or considerations.

c. 3600mm Main Runners shall be installed on 1200mm centers and all main runners shall be parallel to one another. 1200mm Structural Tees shall be installed perpendicular to 3600mm Main runners. Finally 600mm Structural Tees shall be installed perpendicular to the 1200mm Structural Tees.

d. All work shall be coordinated with all other trades including but not limited to electrical, mechanical, fire protection and furniture.

1.5 **Perimeter Installation:** Structural Ceiling grid shall be installed with \[a \text{Fixed}\] \[a \text{Floating}\]

perimeter condition option

a. Fixed perimeter installation: Perimeter Angles shall be mounted at level height to interior ceiling grid within 2.5mm overall and 1.5mm over any 3000mm distance. Perimeter Angles shall be fastened to perimeter wall with appropriate wall type fasteners. Perimeter Angles can be field cut with non-ferrous carbide tipped blade. Joints shall fit with no more than 2mm gaps.

b. Floating perimeter installation: Perimeter Angles shall be supported from structure at level height to interior ceiling grid within 2.5mm overall and 1.5mm over any 3000mm distance. Perimeter Angles shall be fastened to Main Runners and Structural Tees with perimeter connectors and suspended from structure above. Perimeter Angles shall be field cut with non-ferrous carbide tipped blade. Joints shall fit with no more than 3mm gaps.