

ACOUSTIC TILE SYSTEM

1. GENERAL

1.1 Work Included

- .1 Acoustic Ceiling Tile
- .2 Ceiling Tile Grid System

1.2 References

- .1 ASTM C634 Specifications for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
- .2 ASTM C636 Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings

1.3 Design Criteria

- .1 Maximum deflection: 1/360th of span to ASTM C634 test

1.4 Environmental Conditions

- .1 Ensure minimum, uniform temperature of 15°C, humidity 20 percent to 40 percent before, during and after installation.
- .2 Commence installation after wet Work is completed and dry.

1.5 Submittals

- .1 Submit three (3) samples acoustic ceiling tile with minimum size of 400 mm x 400 mm and ceiling tile grid in accordance with Section 01300. Acoustic ceiling and ceiling tile grid to bearing manufacturers name, style name, and colour.

2. PRODUCTS

2.1 Suspension Systems

- .1 To ASTM C634, non-fire-rated, two directional, exposed tee bar grid; Acceptable Manufacturers: Celotex, CGC
- .2 Main Tees: die cut, double web, rectangular bulb, 23.8 mm exposed flanges, with rolled cap, 38 mm deep minimum, cross tee holes 152 mm o/c, integral, reversible splices.
- .3 Cross Tees: die cut, double web, rectangular bulb, 23.8 mm exposed flanges, with rolled cap, 32 mm deep minimum, extended web positive interlock to main tee web, lower flange extended, offset.

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- .4 Edge Mouldings and Trim: manufacturer's standard to match exposed grid components, uniform width, complete with back-up plates.
- .5 Systems Components: commercial quality, cold rolled steel, electro-galvanized coated, pre-finished.
- .6 Exposed Component finish: to CGSB 1-GP-118, factory finished, high grade baked enamel, non-fading, non-yellowing, low gloss white.
- .7 Colour, Suspension systems: Low-gloss white.
- .8 Hangers: minimum 2.6 mm thick, galvanized steel wire, minimum 4.8 mm diameter, zinc-coated mild steel pencil rod for required extra support.
- .9 Splices, Clips, Retainer Clips, Wire Ties, etc.: to manufacturer's standard

2.2 Acoustical Panels

- .1 To: CAN2-92.1-M77, Federal Specifications SS-A-118b Class 25, ULC S-102
- .2 Non-combustible mineral fibre, 600 x 1200 mm, 16 mm thick, square edge, colour white, NRC 0.55-0.65, STC range 35-39, CGC Interiors manufacture "Auratone, Fissured", or equal.

3. EXECUTION

3.1 Installing Suspension System

- .1 Erect suspension system grid at heights indicated, to ASTM C636 in accordance with manufacturer's printed directions, with skilled mechanics.
- .2 Layout ceiling center line both ways, provide balanced borders at room perimeter to reflected ceiling plan.
- .3 Co-ordinate suspended systems with location-related components, such as mechanical & electrical fixtures.
- .4 Support suspension system main tees at 1200 mm o/c maximum, with hanger wire, pencil rod from building structure.
- .5 Interlock cross tees to main tees for rigid assembly.
- .6 Maximum permissible deflection: 1/360th of span
- .7 Set grid level to within a 3 mm tolerance.

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3.2 Installing Acoustical Panels

- .1 Install panels in grid system, edge panel not less than 50 percent panel width.
- .2 Scribe panels to fit adjacent Work. Butt joints tight. Terminate all edges with molding.

3.3 Cleaning

- .1 Touch-up scratches, abrasions, voids and other defects in painted areas.
- .2 Clean down all materials. Leave free of grime, dirt, fingerprints and other evidence of Work.

END OF SECTION