SECTION 09500

CEILING (final)

PART 1 - GENERAL

1.01 Concealed spline systems are not allowed and are to be replaced with a lay-in acoustic tile system wherever feasible.

1.02 Where lighting, sprinkler and HVAC system repairs are being made, concealed spline systems shall be replaced wherever feasible.

1.03 Suspension systems shall be classified intermediate-duty.

1.04 Wall molding at curved soffits shall be shop rolled and painted to match suspension system.

1.05 Reflecting ceiling plans indicating the locations of all penetrations, openings and lights are required prior to any product submittal.

1.06 Provide product data on metal grid system components and acoustic units.

1.07 Seismic Considerations: To resist lateral ceiling movement due to earthquake loads in important occupancies, specify cross-bracing of wire ceiling hangers at about 8 feet on center in both directions or resist lateral movement with adjacent walls or construction.

A. Important occupancies requiring bracing may include ceilings over hospital beds, ceilings in emergency control locations such as police station and security communication centers and other areas where there is a major danger to life safety.

1.08 All ceiling installations shall comply with current local, state and national codes.

1.09 RELATED WORK

A. Section 00100 General Conditions for as-built samples

PART 2 - PRODUCTS

2.01 2’x 2’ ceiling tiles shall be used. Other sizes with dimensions greater than 2’ are not allowed.
2.02 Standard track systems shall be used. If a Brown University Project Manager approves a narrow track system (less than 15/16"), moisture resistant tile is required to reduce sag.

2.03 In high moisture areas powder coated steel is not allowed. Instead, use aluminum grid.

2.04 In dorms where it is necessary to conceal utilities requiring service access, Tectum may be used in public spaces only. Hard ceilings shall be used in other places.

2.05 ACOUSTICAL PANELS

A. Shall be non-combustible, non-directional resin bonded glass wool non-fissured with tissue painted surface.

B. Shall meet TMR Class I, withstanding a permanent relative humidity of up to 95% at 77 degrees and will not sag, warp or delaminate.

C. Exposed edges shall be painted with manufacturers approved edge sealant.

PART 3 - EXECUTION

3.01 SUSPENSION SYSTEM:

A. If the vertical surface that the perimeter trim is to be installed to is uneven, a timber batten shall be fixed to the vertical surface prior to affixing the trim.

3.02 ENVIRONMENTAL REQUIREMENTS:

A. Comply with manufacturer’s environmental requirements for storage, handling and installation.

B. Acoustical ceiling is not allowed to be installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved. Tile shall be installed only after space conditioning is activated.

C. Schedule installation of acoustic units after interior wet work is dry.

3.03 LOAD:

A. Always install a system capable of supporting imposed loads to a deflection of 1/360.
3.04 TOLERANCES:

A. Variation from flat and level surface: 1/8” in 10’.

B. Variation from plumb of grid members caused by eccentric loads: (2) degrees maximum.

END OF SECTION