PART 0 A/E INSTRUCTIONS

0.01 GENERAL DESIGN REQUIREMENTS

A. Architect shall provide 2' X 4' non directional fisured boards, with square edges unless otherwise approved by the DPS Project Manager.

B. Color of tile and suspension grid shall be white unless otherwise approved by DPS Project Manager.

C. Architect shall provide paper faced units as standard, vinyl coated in 'wet areas' or those with high humidity.

D. Architect shall determine where fire rated suspension and tile sytems are required. Fire rated ceiling areas shall be clearly identified on the contract documents.

E. Architect shall specifiy that both tiles and suspension system is provided with hold-down clips within 10 feet of an exterior door only, or as approved by DPS Project Manager.

F. Do not use acoustical tile ceilings as a vertical soffit element.

G. Avoid use of acoustical tiles in areas less than 9 feet in height.

H. Balance layout centered in each room.

I. Architect shall coordinate location of ceiling suspension system with mechanical and electrical layouts (special attention needed for ducting). Hanging ceiling from pipes, ductwork is not permited; must be attached to structure.

J. Architect shall coordinate and specify tenting of speakers and lighting where fire rated ceilings are required.

K. Architect shall provide vibration isolation where ceilings are located under kitchens, mechanical rooms, elevator rooms, gymnasiums.

L. Architect shall detail all special conditions on the project, i.e. around an overhead door.

M. Tectum ceilings shall be used only in special areas requiring additional strength and abuse-resistance. Proposed Tectum ceiling areas shall be approved by the DPS Project Manager.

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Acoustical materials shall meet ASTM E1264 and requirements and guidelines of the Ceilings and Interior Systems Contractors Association (CISCA).

B. Fire Hazard Classification: UL tested, Listed and labeled as "Class 0-25". Smoke developed of 50 or less.

C. Obtain all materials on the project from a single source for both suspension system and acoustical tiles. (tile and grid may be separate manufacturers)

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide acoustical ceiling tiles manufactured by one of the following:

1. Armstrong World Industries.
   a). Vinyl faced- Clean Room VL
   b). Fissured pattern
2. BPB Celotex
   a). Vinyl faced- Vinylshield A
   b). Paper faced- School Board
3. USG Interiors, Inc.

a). Vinyl faced-Clean Room ClimaPlus

b). Paper faced- F-Fisured

4. Tectum- Acousti-Tough

B. Provide ceiling suspension sytems manufactued by one of the following:

1. Chicago Metallic Corp.
2. Armstrong World Industries
3. USG Interiors, Inc.
4. BPB Celotex

2.02 MATERIALS

A. Acoustical Ceiling Tiles:

1. 24” x 48” x 5/8” “ (1” where Tectum products used) mineral fiber lay-in boards.
2. Square edges
3. Non-directional fissured.
4. Color- White.

B. Ceiling Suspension System:

1. Hanger wires: Galvanized carbon steel, ASTM A641, with yield stress load of at least 3 times design load, but not less than 12 gauge.
2. Intermediate Duty main and cross tees and edge moldings
3. Hold down clips
4. Color- White

PART 3 EXECUTION

3.01 INSTALLATION

A. Suspension wires shall be attached to building structure only. No anchorage to metal decking is permitted. Suspension wires shall not be connected to any ductwork support systems or similar construction.

B. Do not install grid and tiles until all overhead work is complete.

C. Suspension wires shall not contact any mechanical ducts, pipes or equipment.

D. Anchorage: Wall angles and trim:

a). Masonry, concrete, and Lath and Plaster: 1” minimum screw or tapcons for trim attachment.

b). Gypsum Board: 1” staples minimum for trim attachment.

E. Anchorage for hanger wires:

1. Concrete: 1” minimum masonry screw or tapcon anchors with eye-bolt configuration.
2. Steel Structure: wrap hanger wires around structure and secure with minimum 3 full twists of wire.

F. Hanger wires shall be spaced no more than 48” apart on main tee’s

G. Install a minimum of 2 additional suspension wires and clips on each side of a lay-in light fixture.

3.02 TOLLERANCES

A. Level moldings and ceiling suspension to a level tolerance of 0.125” in 12’-0”.

B. Install tiles into grid so that no visible gaps exist.

3.03 MAINTENANCE STOCK

A. Furnish full size units in an amount equal to 2 % of the amount installed of each type, pattern, color, bu not less than 10 units.

END OF SECTION 09510