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1. **Design Criteria:**

- a. Carefully consider the specific use of the space when designing and installing acoustic tile ceiling assemblies.
- b. Materials with low VOC composition should be used.
- c. High amounts of recycled content in new ceiling tiles are preferred when available.
- d. Custom design, colors, fabric coverings and patterns shall be avoided.
- e. Sufficient clearance must be provided between the grid and items in the ceiling cavity to allow movement of tiles without damaging them while accessing spaces and systems above the ceiling.
- f. Smudges and minor stains shall be able to be cleaned off ceiling tiles to extend the life cycle of the tile. This is not intended to require clean-room or healthcare style tiles in all locations.
- g. Ceiling panel edges can directly affect the amount of damage likely to occur during removal and replacement. Review edge styles with the UVM project manager.
- h. Review NRC requirements with the UVM project manager.
- i. Ceiling tiles shall not be used as components in a fire rated assembly. They are considered a decorative, replaceable access panel as well as a ceiling.
- j. Laying insulation on ceiling tiles is prohibited.
- k. 24-inch by 24-inch ACT is preferred over 24-inch x 48-inch ACT. Nothing larger than 24 x 48 shall be specified.
- l. Tegular tile shall be used only in areas that are deemed to “need” a higher end finish.
- m. As a rule, narrow grid shall not be specified, and exceptions must be approved by the UVM project manager.

2. **References**

- a. ASTM C636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.
- b. ASTM C423 – Standard Test Method of Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

3. **Required Submittals:**

- a. Product Data: For each type of product indicated.
- b. Manufacturer’s data including instructions, recommendations, and restrictions.

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- c. Coordination Drawings: Review coordination drawing requirements on a project-by-project basis with the UVM project manager to establish what is required for the project.
 - i. Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Suspended ceiling components.
 - 2. Structural members to which suspension systems will be attached.
 - 3. Items penetrating finished ceiling including the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Speakers.
 - d. Sprinklers.
 - e. Access panels.
 - f. Perimeter moldings.
4. **Products, Materials & Equipment:**
- a. Manufacturers:
 - i. Case-by-case basis. Design Consultant to coordinate with UVM project manager for product selection.
 - b. Review attic stock requirements with the UVM project manager. A minimum of (1) box of maintenance stock shall be provided for each type and color of ceiling panel used.
 - i. Packaging: Factory sealed boxes.
 - ii. Labeling: Date, vendor, installer, product name, mill, and installation location.
5. **Installation, Fabrication, and Construction:**
- a. Preinstallation Conference: Conduct conference at project site to review existing conditions and all MEP equipment or ductwork that may interfere with the installation of the ceiling tile.
 - b. GC is to provide ceiling markers to identify location of valves, controls, and equipment found above ceilings as noted below:
 - i. Self-adhesive, 0.25-inch diameter, color coded discs.
 - ii. Basis of Design: “Avery Color Coding Labels”.

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- iii. Colors: Provide color coded system directed by UVM project manager.
- iv. Provide one marker below each item needing access.
- v. Locate the marker at the center of nearest visible suspension member.
- vi. Color code markers for each system above ceiling.
- vii. Show color coded ceiling markers on Record Drawings.
- c. Tile edges that are cut in the field shall be painted to match factory edges.
- d. Ceiling systems shall be cleaned prior to substantial completion to remove marks and replace damaged tiles.

6. **Warranties:**

- a. Manufacturer's standard warranty on equipment and products. Minimum length shall be 30 years.
 - i. Warranty shall cover manufacturing defects in panels and suspension systems, sagging and warping.
 - ii. Warranty shall cover suspension system for being greater than 50% red rust free as defined by ASTM D610.
- b. Installer's standard one-year warranty on installation and craftsmanship.