095000-H: CEILINGS (09510-H)

GENERAL

In general, follow the guidelines below when designing and specifying suspended acoustic ceilings. Unless specifically indicated otherwise, these guidelines are not intended to restrict or replace professional judgment. All ceiling systems shall comply with all current codes and regulatory agencies, as listed in SID-F and SID-F-H.

1. Typically use acoustical lay-in ceilings at all interior spaces, except those subject to moisture, wet areas or where gypsum or other ceiling products are required by program; or as otherwise provided by programmatic building code or infection control requirements.
   a. In food preparation and other areas where dust fallout would present a potential problem, there shall be a finished ceiling that covers all conduits, piping, duct work and open construction systems.
   b. Ceilings in operating and procedure rooms, sterile processing rooms and other rooms as required by program shall be monolithic from wall to wall without fissures, open joints, or crevices that may retain or permit passage of dirt particles. Light fittings shall also be recessed and flush fitting and sealed to prevent dust ingress. Acoustic and/or lay-in ceilings shall not be used where particulate matter may interfere with asepsis control. Above ceiling utilities shall be located so as to minimize the need for access panels. Refer to SBA-K-H, Healthcare Procedure Room Infection Control Types and Requirements, for additional information.
   c. Ceiling height and construction in psychiatric patient and seclusion rooms shall be designed to minimize the possibility of injury or escape.

2. Two foot by two foot, (2’ x 2’) square edged white acoustical panels in a white, exposed metal 15/16” suspension system are preferred. Do not use concealed spline acoustical ceilings.

3. Designs should be avoided which require the use of hold-down clips for lay in ceiling systems.

4. In renovations were only one room or a portion of a room is to be renovated, the ceiling panels should be specified to match the existing. If budget permits, or if it is not possible to match the existing ceiling panels, all ceiling panels within a room should be replaced.

5. Colors other than white, shall be approved by the UMHHC Design Manager.

6. Reflected ceiling drawings shall indicate and coordinate all ceiling elements and penetrations including Reflected Ceiling Plans on Construction Documents shall indicate all exposed Mechanical and Electrical equipment, including HVAC grills and diffusers, sprinkler heads, light fixtures, curtain tracks, IV tracks, patient lifts, smoke detectors, exit signs, antenna systems, ceiling mounted equipment.

7. Design ceilings so that grids are centered continuous to other adjacent areas where possible. Avoid grids extending along walls within a few inches.

8. Standard Styles for new construction (for an area larger than one room):
   a. Standard acoustical ceiling panels, 24” x 24” square edge (sometimes called trim edge or flat edge) panels
      1. CertainTeed Symphony 3/4” panels, 1222-OVT-1 Mineral fiber ceilings (NRC 0.70)
      2. USG Mars Climaplus 3/4” panels, 86185 (NRC 0.70)
      3. Armstrong Ultima 3/4” panels, 1910 (NRC 0.70)
   b. High NRC acoustic ceiling panels, 24” x 24” square edge panels
      1. CertainTeed Symphony 3/4” panels, 1322-OVT-1 Fiberglass (NRC 0.80)
      2. CertainTeed Symphony 1” panels, 1342-OVT-1 Fiberglass (NRC 0.95)
      3. Armstrong Tierra Square lay in, 24” x 24” x 5/8” panels, 3460, (NRC 0.85)
      4. USG Mars Climaplus 24” x 24” x 7/8” panels, 86100, square edge (NRC 0.80)
      5. Armstrong Optima Open Plan 3/4” panels, 3150 (NRC 0.90)
   c. Vinyl faced ceiling panels, 24” x 24” square edge:
      1. USG CleanRoom Climaplus 24” x 24” x 5/8” 56099
      2. CertainTeed VinylShield 24” x 24” x 5/8” 1172-CRF-1 Vinyl Faced
9. Typical Existing Ceilings in UMHHC Facilities:
   a. THC:
      1. The original ceiling panels in this building are 25” square, and are no longer available. Maintenance maintains a stock for replacement as needed. Major renovation projects replace the ceiling panels with 24” square lay in ceiling panels. Some original ceilings were 12” square concealed spline, which are being replaced through renovations.
   b. UH:
      1. The original grid in University Hospital is Fineline grid. In major renovations, the grid is to be changed to the standard 15/16” grid.
      2. Maintenance stocks fine fissured acoustical panels for replacement: Armstrong 1732 Fine Fissured Angled Tegular 24” x 24” x 5/8”
      3. UH Patient room renovations: USG Mars Climaplus High NRC #87100 ceiling tile, 24” x 24” x 7/8” with a “Fineline” grid profile. (0.80 NRC)
   c. CVC:
      1. Acoustical Panels for general use: CertainTeed Symphony 24” x 24” x 3/4” panels, 1222-OVT-1 trim edge (flat, non-tegular) Mineral fiber ceilings (NRC 0.70)
      2. Vinyl laminated: CertainTeed VinylShield 24” x 24” x 5/8” 1172-CRF-1 Vinyl Faced (~NRC) in CVC OR’s
   d. C+W:
      1. Acoustical Panels for general use: USG Mars Climaplus 24” x 24” x 3/4” 86185 (0.70)
      2. Vinyl laminated: USG CleanRoom Climaplus 24” x 24” x 5/8” 56099 (C+W OR’s, Clean Rooms, Kitchen)

10. UMHHC FPD encourages the recycling of ceiling panels. UM Construction Services has a system in place to store ceiling panels for pick up. General Contractors are encouraged to work with the ceiling panel manufacturers to recycle any ceiling panels that are to be disposed of.

SUSTAINABLE DESIGN REQUIREMENTS

1. Ceiling panels shall contain greater than 50% total recycled content. Acceptable ceiling tile products include: Armstrong, CertainTeed, and USG per style types listed in section 8 and 9 above.
2. Ceiling panels shall contain a Noise Reduction Criteria (NRC) of .70 or more except at locations where required to match existing. Ceiling panels shall contain a Ceiling Attenuation Class (CAC) of 35 or more.
3. Ceiling systems shall be manufactured within 500 miles of project site.
4. Alternative ceiling products not listed above shall be reviewed and approved by UMHHC FPD Design Manager.