

## 09510S01 - Acoustical Ceilings

1.0 Acoustical ceiling panel Manufacturers or equal:

- a. Armstrong World Industries.
- b. Celotex Corporation.
- c. USG Corporation.

2.0 Ceiling panels shall be as follows or equal:

- a. Armstrong Cortega, Tegular white, # 704
- b. Size: 2x2x5/8"
- c. Fire rating: Class A
- d. Color: White
- e. Noise reduction coefficient (NRC): .50 - .60.
- f. Ceiling attenuation class (CAC): 35-39
- g. Light Reflectance (LR): .84

2.1 For medium moisture & high temperature areas the ceiling panels shall be as follows or equal:

- a. USG Radar ClimaPlus # 2220, with Shadowline taper (SLT), med. Texture
- b. Size: 2x2x5/8"
- c. Fire rating: Class A
- d. Color: White
- e. Noise reduction coefficient (NRC): .50 - .60.
- f. Ceiling attenuation class (CAC): 35-39.
- g. Light Reflectance (LR): .84.
- h. Temperature maximum rating: 104 degrees.
- i. Maximum humidity rating: 90%.

The above ceiling panels shall be used in the following areas:

- a. Restrooms
- b. Labs

2.2 For high moisture & high temperature area the ceiling panels shall be as follows or equal:

- a. USG 3260 vinyl stipple pattern, with square edges (SQ), perforated panels.
- b. Size: 2x2x5/8"
- c. Fire rating : Class A.
- d. Color: White.
- e. Noise reduction coefficient. (NRC): .30-.40.
- f. Ceiling attenuation class (CAC): 40-44.
- g. Light reflectance (LR): .85
- h. Temperature maximum rating: 104 degrees.
- i. Maximum humidity rating: 100%.

The above ceiling panels shall be used in the following areas:

- a. Shower & bathing areas.
- b. Autoclave room.
- c. Food prep kitchens (non departmental kitchenettes).

3.0 Fire-resistance rating: Per ASTM E 119 by reference to UL "Fire Resistance Directory".

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- 4.0 Metal suspension grid system: 24"x24" direct-hung 15/16" wide exposed grid system, roll formed from prefinished cold rolled steel sheets, double web, matte white finish: Grid type is DONN DX from DONN Corp.  
High humidity finish: Comply with ASTM C 635 requirements for coating classification for severe environment performance. Where high-humidity finish is required.
- 5.0 Hanger wire: Galvanized carbon steel, ASTM A641, soft temper, prestretched, class I coating, (ASTM C 635, table I, direct hung), will be less than yield stress of wire, but not less than 12 gauge. Hanger wire must be no more than 48" on center both ways, and must be supported from the structure above. Ceiling grid shall not be supported from pipes, conduit, ductwork, etc.
- 5.1 All lay-in light fixtures shall be supported with a minimum of two hanger wires positioned at opposite corners of the light fixture. The light fixtures may be supported to the structure by the grid provided that the minimum hanger wires are located at opposite corners & within 6" of the corner of the light fixture, and the light fixture is clipped to the grid. The light fixture may be clipped to the grid using sheet metal screws.
- 6.0 Edge moldings: Secure to substrate with screw anchors spaced 16" on center. Inside corner joints shall be overlapped. Outside corner joints shall be premolded. Support no more than one foot of ceiling with edge molding. (a support wire must be within 24" of perimeter of ceiling).
- 6.1 Manufacturers: Subject to compliance, provide heavy duty suspension system per ASTM C 636. Per the following or equal:
- a. Chicago Metallic Corp., Snap-Grid System.
  - b. DONN Corporation, DX System.
  - c. National Rolling Mills Inc., ML System.