1. **GENERAL**
   1. **WORK INCLUDES**
      1. Acoustical panels, lay‑in.
   2. **RELATED SECTIONS**
      1. Section 09 53 00, Acoustical Suspension Systems.
   3. **REFERENCES**
      1. ASTM E84 ‑ Surface Burning Characteristics of Building Materials.
      2. ASTM E1264 ‑ Acoustic Ceiling Products.
   4. **QUALITY ASSURANCE**
      1. Qualifications
      2. Manufacturer: Company specializing in manufacture of ceiling panels with five years minimum experience.
      3. Installer: Company with three years minimum experience.
      4. Fire Classification Requirements: ASTM E84, flame spread of less than 25 and smoke density rating of less than 450.
   5. **SUBMITTALS**
      1. Submit product data for acoustical panels.
      2. Submit three samples illustrating material and finish of acoustic units.
      3. Submit manufacturer's installation instructions.
   6. **ENVIRONMENTAL REQUIREMENTS**
      1. Interior wet work shall be completed prior to installation of panels. Windows and doors shall be in place. HVAC systems shall be installed and operable where necessary to maintain a temperature range of 60 to 85 degrees F and maximum 70 percent relative humidity.
   7. **EXTRA STOCK**
      1. Provide extra quantity of acoustic ceiling tiles in the amount of one box of each type specified.
2. **PRODUCTS**
   1. **MANUFACTURERS**
      1. Products of the following manufacturers form the basis for design and quality intended.
         1. Armstrong World Industries, Fullerton, CA.
      2. Or equal as approved in accordance with Division 1, General Requirements for substitutions.
   2. **MATERIALS**

A.Acoustical Panels: AC1-(2 x 2) CORTEGA 770 ASTM E1264.

(1) Size: 24 x 24 inches.

(2) Thickness: 5/8 inches.

(3) Light Reflectance: 0.82.

(4) NRC: 0.55.

(5) CAC: 33.

(6) Edge: Square edge.

(7)Surface color: Factory White.

* + 1. Acoustical Panels: AC2-(2 x 4) CORTEGA 769 ASTM E1264.
       1. Size: 24 by 48 inches.
       2. Thickness: 5/8 inches.
       3. Light Reflectance: 0.82.
       4. NRC: .55.
       5. CAC: 35.
       6. Edge: Square edge.
       7. Surface color: Factory White.
    2. Acoustical Panels: AC3 - (2 x 4) Clean Room VL 1721, unperforated, ASTM E1264, at kitchens:
       1. Size: 24 by 48 inches
       2. Thickness: 5/8 inch
       3. Light Reflectance: 0.79.
       4. NRC Range: N/A
       5. CAC Range: 35
       6. Edge: Square.
       7. Surface color: Factory White.
    3. Retention Clips: Armstrong #414 Retention Clip. Panels weighing more than ½ pound per square foot, other than acoustical tile-is to be positively attached to the ceiling suspension runners.

1. **EXECUTION**
   1. **INSPECTION**
      1. Verify that existing conditions are ready to receive work.
      2. Verify that layout of hangers will not interfere with installation of acoustic units.
      3. Beginning of installation means acceptance of existing conditions.
   2. **INSTALLATION**
      1. Fit acoustic units in place, free from damaged edges or other defects detrimental to appearance and function.
      2. Where square units are indicated, lay directional patterned units in basket weave pattern. Fit border neatly against abutting surfaces.
      3. Install acoustic units level, in uniform plane, and free from twist, warp and dents. Replace damaged or soiled units.
      4. Provide for complete accessibility for all units.
      5. Install retention-panel clips at kitchens, gym corridors ceilings and at panels weighing less than ½ lb. per square foot.

**3.03 CLEAN UP**

A.Contractor shall pick up all debris from the installation and dispose of it in a legal manner off site.

**END OF SECTION**