

DESIGN CRITERIA

1. Related Sections: See related Division 9 Design Criteria and Commissary Standard Room and Finish Schedule in Appendix "A."
2. This Section specifies acoustical panels and exposed metal suspension systems for ceilings.
3. The DeCA standard for customer areas with ceilings is 24" by 24", white, tegular edge, acoustical ceiling panels. The specifications indicate a panel manufactured with built-in humidity guard to resist panel warping and an anti-bacterial coating to resist mold growth (both common problems in commissary facilities).
4. Provide a detail on contract drawings indicating proper suspension of ceiling system. Verify that Contract Drawings do not graphically show or indicate ceiling hangers suspended from steel roof deck or utilities (i.e., ductwork, sprinkler piping, conduits, etc.). Splayed hanger wires shall have offset splayed wires.
5. Design Considerations:
 - A. In accordance with the IBC all projects are assigned to a Seismic Design Category. Where required by project location, add applicable requirements of the IBC and referenced codes and standards.
 1. This Section references specific requirements of the suspended ceiling system to withstand the effects of earthquake motions according to IBC.
 2. This Section specifies a manufactured suspension system meeting the requirements for all seismic categories, subject to engineering analysis of the system.
 - B. Overhead mounted architectural features shall be designed for security protection in accordance with UFC 4-010-01 DoD Minimum Antiterrorism Standards For Buildings (latest edition), Standard 15, as follows:
 1. Indicate overhead mounted features weighing 14 kilograms (31 pounds) or more (excluding distributed systems such as suspended ceilings that collectively exceed that weight) are mounted using either rigid or flexible systems to minimize the likelihood that they will fall and injure building occupants.
 2. Mount such systems so they resist forces of 0.5 times the component weight in any horizontal direction and 1.5 times the component weight in the downward direction.
 3. This requirement shall not preclude the need to design architectural feature mountings for forces required by other criteria such as seismic requirements.

END OF SECTION