

SECTION 09547
METAL CEILINGS AC-410F-EXT
(FLAT, VAULTED OR CURVED APPLICATION)

PART 1: GENERAL

- 1.01 RELATED DOCUMENTS
- A. All of the contract documents, including General and Supplementary Conditions and Division 1 General requirements, apply to the work of this section.
- 1.02 WORK INCLUDED
- A. Provide suspended metal ceilings as indicated on drawings and as specified. Work of this section includes, but not limited to:
 1. metal ceiling panel
 2. suspension grid.
 3. optional: perforation & acoustical backing
- 1.03 RELATED WORK
- A. Examine Contract Documents for requirements that affect work of this Section. Other Specification Sections that relate directly to work of this section include, but are not limited to:
 1. Section 09250; GYPSUM DRYWALL; Gypsum drywall ceilings.
 2. Section 09510; ACOUSTICAL CEILINGS
 3. Division 15 – MECHANICAL; sprinkler, grilles and diffusers located in ceiling.
 4. Division 16 – ELECTRICAL: light fixtures, speakers and alarm system components.
- 1.04 QUALITY ASSURANCE
- A. Standards: ASTM
 - B. Installation is to comply with all local building codes.
 - C. It is the responsibility of the contractor to coordinate installation with other trades.
- 1.05 SUBMITTALS.
- A. Procedures: Make submittals in accordance with Section 01300
 - B. Product Data: Submit manufacturer's product specifications and installation instructions for each ceiling material required. For each suspension system, include certified laboratory test reports and other data as may be required to show compliance with the documents.
 - C. Samples: Submit 3 each representative samples of each material that is to be exposed in the finished work. Include full range of colors and finishes.
 - D. Shop Drawings: Submit shop drawings showing complete reflected ceiling plan. Drawings shall clearly show the following
 1. Suspension system layouts showing locations of main runners, cross runners and perimeter trims
 2. Locations of all ceiling penetrations, including, lights, air diffusers, fire sprinklers, speakers or other penetrations.
 3. Complete installation details.
- 1.06 DELIVERY, STORAGE AND HANDLING
- A. Deliver materials and products in unopened factory labeled packages. Contractor to inspect all materials immediately upon arrival and notify manufacturer of damage or material shortage.
 - B. Material is to be stored and handled in strict compliance with manufacturer's instructions and recommendations. Protect material from damage, moisture and direct sunlight. Sequence deliveries to avoid delays but minimize on-site storage.
- 1.07 PROJECT CONDITIONS
- A. Commence installation of materials only when conditions are within the limits established by the manufacturer. If job site conditions do not meet minimum requirements installation contractor is to notify General Contractor in writing of said conditions.
 - B. All work required above ceiling is to be completed prior to installation of ceiling panels.
- 1.08 EXTRA MATERIALS
- A. Provide packaged, wrapped and labeled maintenance stock equal to 2% of The actual quantity installed for the following items of work
 1. Each type of ceiling panel
 2. Each type of main runner, cross runner and wall angle.

PART 2: PRODUCTS

- 2.01 METAL CEILING SYSTEM: Shall be **AC-410F-EXT** as manufactured by **Accent Ceilings and Walls Los Angeles, CA (800) 816-8830 www.accentceilings.com**. Other manufacturers must be approved by architect prior to bid. Equivalency will be based upon **ISO Certification** of manufacturing tolerances.
- 2.02 MATERIALS
- A. AC-410F-EXT panels to be torsion spring mounted to concealed heavy duty grid system and locked with the use of cam-lock attachment clips to be attached at the factory and not in the field . Panel sizes shall be _____ x _____ or as shown on drawings. Panel edges to be upturned, with a minimum of 4 torsion spring brackets and 4 Torsion springs, to be attached to panel at the factory, and not in the field. All panels are to be 100% accessible. When accessing, panel hangs at 90 degrees by supporting springs.
 - B. Panels to be manufactured from (select one); aluminum, steel, stainless steel or other, _____ gauge die formed from single sheet of metal. Defects or marks on face of panel will not be acceptable.
 - C. Finish: panel to be finished as noted on drawings or selected from manufacturers standards. (select one); anodized, paint, powder coat, galvanized, brushed, bright or custom.
 - D. Perforation (if required). Panels are to be perforated with _____hole _____ on center, for a _____% open area or selected from manufacturers standards. Specify if non-perforated border is required.
 - E. Acoustical backing (if required). Backing to be Soundtex Nonwoven ultra-thin acoustical backing. Black in color. Factory applied to back of metal panel. (select option); black fiberglass insulation, fiberglass enclosed in PVC wrap or custom, to provide a _____ NRC.
 - F. Suspensions system (shall be compatible to series selected)
 - 1. Comply with the requirements of ASTM C635, as applicable to the metal panel ceiling system and shown on drawings.
 - 2. Coordination of components: Provide fastening system, which is coordinated with the indicated limitations and requirements for hanging from structure and supporting the metal panel system. Include the necessary components for a complete mechanical fastened system as applicable.
 - 3. Heavy duty main runner is to be factory slotted to allow for installation of panel torsion springs.
 - G. Perimeter shall be _____ as detailed on drawings.

PART 3: EXECUTION

- 3.01 INSPECTION
- A. The installer shall examine substrates, supports and conditions under which this work will be performed. Installer shall notify General Contractor in writing if conditions are detrimental to proper completion of the work. Do not proceed with work until all unsatisfactory conditions are corrected. Beginning work means installer accepts substrates and conditions.
- 3.02 PREPARATION AND INSTALLATION – GENERAL
- A. Installation of materials shall strictly comply with manufacture’s recommendations and instructions. Install materials to comply with governing regulations, fire resistance rating requirements as indicated, and industry standard applicable to the work.
 - B. Verify all measurements and dimensions at the contract site and coordinate the work with the work of other trades.
 - C. Exterior doors and windows shall be in place and glazed prior to ceiling installation. Cleaning, concrete, masonry, plaster and other “wet work” shall be complete and dry. A minimum temperature of 65 degrees shall be maintained before, during and after installation of metal ceilings.
 - D. Layout: Match pattern shown on reflected ceiling plans to greatest extent possible. Obtain Architects approval prior to installation of layout, which varies from ceiling plans.
 - E. Suspension installation: Erect suspension system in accordance with ASTM C 636, supported only from building structure. Level main suspension members to within tolerance of 1/8” in 10’-0”. Splay wire hanger where necessary and countersplay to balance resulting horizontal forces. Cross brace suspension to prevent lateral sway and displacement during full seismic loads prescribed by code.
 - F. Install unites flush and level with joints in perfect alignment. Maintain direction of pattern and “mill-run” of unites in one direction.
- 3.03 CLEANING AND PROTECTIONS
- A. Clean exposed surfaces of acoustical panels, trim, edge moldings and suspension members. Comply with manufacturer’s instructions for cleaning and touch-up finish damage. Remove and replace work, which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.
 - B. Provide protection for the metal panel ceilings, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of final acceptance.