

## **Section 05580 - Specialty Metal Wall Panels**

### **Part 1 – General**

#### **1.01 Scope**

- A. Furnish and install the Metal Wall Panel System as manufactured by Steel Ceilings Inc., Johnstown, Ohio.

#### **1.02 Related Sections**

- A. Section 09510 Acoustical Ceilings
- B. Section 09250 Plaster and Gypsum Board
- C. Section 15550 Heating, Ventilating and Air-conditioning
- D. Section 16500 Lighting

#### **1.03 References**

- A. American Society for Testing and Materials (ASTM)
  - 1. C635 - Standard specification for the manufacture, performance and testing of metal suspension systems for acoustical tile and lay - in panel ceilings.
  - 2. C636 - Standard practice for installation of metal ceiling suspension systems for acoustical tile and lay-in panels.
  - 3. E84 - Test method for surface burning characteristics of building materials.
- B. CISCA – Ceilings and Interior Systems Construction Association

#### **1.04 Submittals**

- A. Provide product data sheets listing dimensions, style, edge detail, perforation pattern and finish.
- B. Alternates require prior approval no later than 21 days prior to bid date. In addition to the requirements in A above, submittals for approved alternates must include samples of actual products to be substituted together with test certificates supporting performance claims, a mock up and a written warranty.

#### **1.05 Project Conditions**

- A. Environmental Requirements
  - 1. Area to receive ceiling systems shall be protected from the weather.
  - 2. Wet trades work shall be complete and dry prior to installation of ceiling system.
  - 3. Installation shall not proceed until the temperature and humidity conditions closely approximate finish condition.

#### **1.06 Attic Stock**

- A. Provide 2% (3% etc) of the ceiling system area materials to be used as attic stock.

### **1.07 Performance**

- A. Materials and installation must comply with Local Building Code and Regulations
- B. Materials should be stored and handled in accordance with CISCA's *Acoustical Ceilings – Use and Practice*
- C. There are no special seismic requirements

## **Part 2 - Products**

### **2.01 Manufacturer**

- A. Metal Wall Panel System shall be as manufactured by Steel Ceilings Inc., Johnstown, Ohio. [www.steelceilings.com](http://www.steelceilings.com)

### **2.02 Materials**

- A. Wall Bracket System
  - 1. Wall bracket shall be shall be either progressive or starter brackets as shown on the drawings. Bracket shall be manufactured from 18 gauge galvanized steel and shall have special tabs spaced vertically every 10" that insure the flatness of the panel.
  - 2. Reveals can be created between the panels as shown on the drawings.
  - 3. A U channel can be installed at the top of the metal wall panels to prevent access.
  
- B. Metal Wall Panels
  - 1. Metal pans shall be formed from 18 gauge galvanized steel – minimum A40/G40 (aluminum, stainless steel).
  - 2. Panels shall be manufactured in the sizes as shown on the drawings.
  - 3. Panels shall be square edge and the back flange shall be notched to engage with the wall brackets. All panels shall be 100% accessible.
  - 4. The core infill of the wall panels shall be a 6 lb. density fiberglass to provide a rigid structure.
  - 5. Panels shall be perforated (non-perforated) with pattern B (C, D, F, FF, G, R, S or custom perforation).
  - 6. Panels shall be post painted to seal all perforations with polyester powder global white (color) gloss level 12% to 15% (preferred mill, natural anodized, brushed # 4)
  
- C. Acoustical Infill
  - 1. Perforated metal wall panels shall be supplied with a non-woven acoustic fleece in conjunction with the fiberglass core to provide designated sound absorption.

## **Part 3 – Execution**

### **3.01 Examination**

- A. Installer must inspect the area that is to receive the metal wall panel system for conditions that may affect the installation and notify, in writing, any conditions that must be rectified before commencing.
- B. All work above the ceiling shall be completed before proceeding with this installation.
- C. All wet work shall be completed and thoroughly dry before proceeding with this installation.

### **3.02 Installation**

- A. Metal Wall components shall be delivered in unopened cartons and shall be clearly marked with manufacturer's name.
- B. Material shall be stored in dry and protected areas.
- C. Install the ceiling system in accordance with the manufacturer's recommendations and the approved shop drawings.
- D. Cut panels shall, where possible, not be less than one half of full size.
- E. Panels shall be free from defects and damaged panels shall be removed and replaced.