HOOK-ON

Steel Ceilings Inc.
Manufacturer of Metal Ceilings and Specialty Systems

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Section 09 50 Ceilings

Part 1 – General

1.01 Scope
Furnish and install the Hook-On Metal Tile Ceiling System as manufactured by Steel Ceilings Inc., Johnstown, Ohio

1.02 Related Sections
- Section 09 20 Plaster and Gypsum Board
- Section 23 00 Heating, Ventilating and Air-conditioning
- Section 26 50 Lighting

1.03 References
- American Society for Testing and Materials (ASTM)

C635 Standard specification for the manufacture, performance and testing of metal suspension systems for acoustical tile and lay-in panel ceilings

C636 Standard practice for installation of metal ceiling suspension systems for acoustical tile and lay–in panels

E84 Test method for surface burning characteristics of building materials

CISCA Ceilings and Interior Systems Construction Association

1.04 Submittals
- Provide product data sheets listing dimensions, style, edge detail, perforation pattern and finish
- Alternates require prior approval no later than 21 days prior to bid date. In addition to the requirements 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
Environmental Requirements
- Area to receive ceiling systems shall be protected from the weather
- Wet trades work shall be complete and dry prior to installation of ceiling system
- Installation shall not proceed until the temperature and humidity conditions closely approximate finish condition

1.06 Attic Stock
Provide 2% (3% etc) of the ceiling system area materials to be used as attic stock

1.07 Performance
- Materials and installation must comply with Local Building Code and Regulations
- Materials should be stored and handled in accordance with CISCA's *Acoustical Ceilings – Use and Practice*
- Materials to comply to CISCA's *Metal Ceilings Technical Guidelines*
- There are no special seismic requirements

Part 2 – Products

2.01 Manufacturer
Concealed J-bar suspension system, clips, molding and metal pans shall be as manufactured by Steel Ceilings Inc., Johnstown, Ohio:
www.steelceilings.com

2.02 Materials
Suspension System
- Primary Channel shall be 1½" deep 16-gauge galvanized steel—minimum G60, and shall be spaced not to exceed 48" on-center by direct suspension from the existing structure with not less than 12-gauge pre-straightened hanger wires, wrapped tightly 3 full turns, spaced 48 inches along the component length or ¼" threaded rod.
- J-bars shall be galvanized steel—minimum A40/G40 (aluminum)
- J-bar aligning clips may be used by the contractor
- Wall molding shall be formed from galvanized steel (aluminum, stainless steel) in C-shape to receive metal pans.
- Hold downs shall be formed from the same materials as the molding

Hook-On Metal Panels
- Metal pans shall be formed from ___ gauge galvanized steel – minimum A40/G40 (aluminum, stainless steel)
- Panels shall measure __" x __"
- Panels shall be square edge
- Panels shall be perforated (non-perforated) with pattern B (C, D, F, FF, G, M, R or custom perforation)
- 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 number 4)

Acoustical Infill
- Panels shall be supplied with 1" (2", etc.) thick 1pcf (2 pcf, etc.) glass fiber insulation wrapped in flame-retardant black polyfilm (nonwoven acoustic fleece) to provide sound absorption NRC of 0.75 (0.95, etc.)

Part 3 – Execution

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

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

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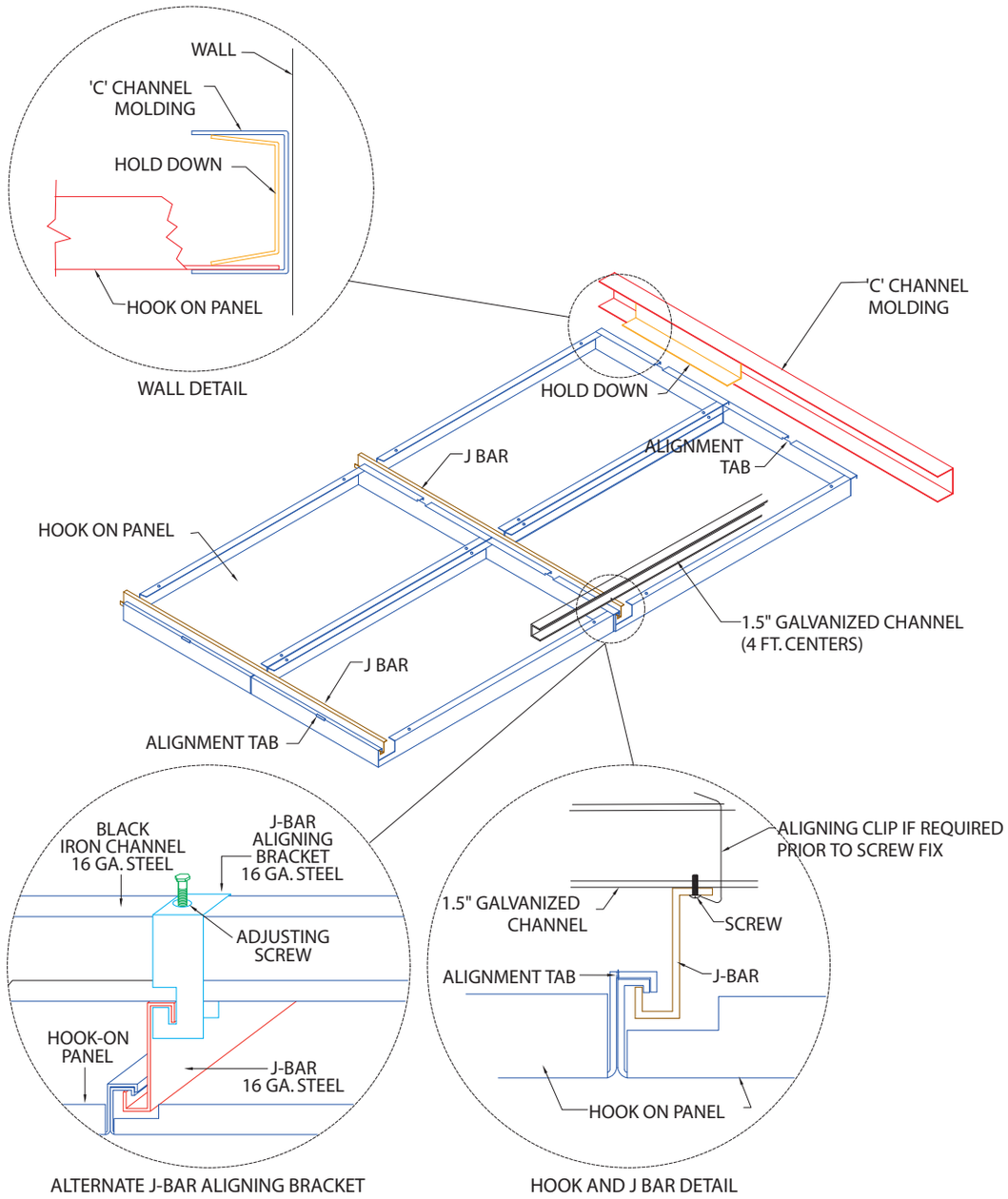
METAL PAN SYSTEM

SIZE (INCHES)	Min. 12x24, Max. 36x96
ACCESSIBILITY	Downward
VISUAL	Concealed
EDGE DETAIL	Square
MATERIALS	Steel, Aluminum, Stainless
FINISHES	Painted, Natural
RELATIVE COST	$$



OVERVIEW
The Steel Ceilings Hook-On Metal Pan System affords the end user 100% accessibility into the plenum space at any point in the ceiling. The panels have a special edge on two opposite sides of the panel.

MODULE
Hook-On panels are usually made to size and are oblong in shape with the short sides used for suspending the panels.

METAL
The metal panels are manufactured from light gauge galvanized steel, stainless or aluminum.

PERFORATIONS
A full range of perforation patterns are available with or without plain borders. Steel Ceilings maintains a range of perforating dies in-house and custom perforations can be provided. Perforation patterns can be staggered, diagonal or straight row and the perforations can be provided in round, square or oblong holes in various diameters and sizes. The panels can also be provided without perforations.

EDGE TREATMENTS
The edges of the panels are square edge.

ACOUSTICS
The perforated metal panels can be provided with either a non-woven fabric or a fiberglass pad that is wrapped at the factory in black flame retardant polyfilm. Noise reduction coefficients of up to .95 can be achieved depending on the thickness and density of the fiberglass pad that is used. In areas where sound transmission needs to be controlled, attenuation pans can be provided on the back of the perforated pans that can achieve a CAC rating of up to 40 dB.

TYPE OF INSTALLATION
The Hook On panels are installed onto J-bar that is directly suspended with threaded rod or the J-bar is securely fastened to 1 ½" galvanized iron that is suspended with hanger rod. The short edge of the panels are then engaged onto the J-bar from below. Panel tabs are used to ensure panels align correctly. As a result the entire suspension system remains visually concealed from below. Access is gained by lifting the adjacent panel.

MAINTENANCE BENEFIT
The Hook On system allows access from below at any point. This facilitates maintenance.

CONCEALED OR EXPOSED SUSPENSION SYSTEM
The entire ceiling assembly has no visual suspension runners providing a clean unobstructed visual appearance.

FINISHES
The finished appearance of the ceiling system is either a powder paint finish in white or color, including silver, plus a range of copper, brass or chrome steel.

APPLICATIONS
This fully accessible ceiling can be used for interior applications. When used in an exterior application special bracing details need to be used.

FIRE PERFORMANCE
The ceiling system has been tested in accordance with ASTM E-84 and is considered incombustible. The material has a Flame Spread of less than 25 and Smoke Generation of less than 50.

IMPACT
All materials are 100% recyclable with a high recycled content.