



Planostile™ Lay-in Metal Panel Ceiling System

PART 1 - GENERAL

1.01 Scope

Furnish and install the Planostile lay-in metal panel ceiling system as manufactured and supplied by Chicago Metallic (800)323.7164.

1.02 Related Sections

- A. Section 09 22 26 - Suspension Systems
- B. Section 09 51 00 - Acoustical Ceilings
- C. Section 09 63 00 - Acoustical Ceiling Suspension Assemblies
- D. Section 09 29 00 - Gypsum Board
- E. Section 09 54 00 - Specialty Ceilings
- F. Section 09 58 00 - Integrated Ceiling Assemblies
- G. Section 13 48 00 - Sound, Vibration, and Seismic Control
- H. Section 22 00 00 - Plumbing
- I. Section 23 50 00 - Central Heating Equipment
- J. Section 26 50 00 - Lighting

1.03 References

- A. American Society for Testing and Materials (ASTM)
 - 1. C 635 - Standard Specification for the manufacture, performance, and testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
 - 2. C 636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
 - 3. E 84 - Test Method for Surface Burning Characteristics of Building Materials.
 - 4. E 580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint.

1.04 Submittals

- A. Product data: Manufacturers standard data sheets listing dimensions and details.
- B. Samples: Manufacturers standard samples including suspension, panels and colors.
- C. Shop Drawings: Reflected ceiling plan and elevation drawings indicating ceiling layouts, perimeter conditions and accessories.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weather tightness of area to receive suspension system prior to installation.
 - 2. Wet trades work to be thoroughly dry and complete

prior to suspension system installation.

- 3. Installation to begin only when temperature and humidity conditions closely approximate interior conditions which will exist when area is complete and occupied.
- 4. Heating and air conditioning systems to be operating prior to, during, and after installation.
- 5. Deliver materials in manufacturers original packaging, unopened and undamaged.
- 6. Store materials in an enclosed dry location at room temperature and protect from soiling, damage, moisture and humidity.

1.06 Maintenance

Furnish additional material equal to (____)% of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturer

Chicago Metallic non-rated Planostile lay-in metal panel ceiling system for installation into exposed T-bar ceiling suspension.

2.02 Materials

A. Lay-in metal panels:

- 1. Panels shall measure (24 in. by 24 in.) (24 in. by 48 in.) (20 in. by 60 in.) (____) with (square) (reveal) lay-in edge detail.
- 2. Manufactured from [(0.024 in. electrogalvanized steel) (0.032 in. aluminum)] [(solid)(perforated with Chicago Metallic pattern ____)].
- 3. Panels shall be (painted with a baked powder coat finish) (01 White) (44 Satin Silver Metallic) (____) (371 Preferred Lacquer Mill) anodized (14 Chromecoat) (16 Brasscoat) (509 Coppercoat).
- 4. Panels shall be finished with manufactured MetalWood™ finish (650 Maple)(653 Oak)(651 Cherry)(653 Pumpkin Maple)(654 Karri).

B. Acoustical Material:

- 1. Poly-encased insulation pads, of (1"),(1-1/2") thickness and a density of (1"), (1-1/2") pcf.
- 2. Acoutex acoustical non-woven fiber to be inserted in the factory and adhered with glue to the back of the panel for sound absorption capabilities.

C. Suspension:

- 1. Chicago Metallic Intermediate duty non-rated double web suspension (1200 system with 15/16 inch ex-

(Continued on back)

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Planostile™ Lay-in Metal Panel Ceiling System

(Continued from front)

- posed face) (4000 system with 9/16 inch exposed face) (3500 system with 9/16 inch wide by 5/16 inch deep face with 1/4 inch wide opening) (3600 system with 9/16 inch wide by 5/16 inch deep face with 1/8 inch wide opening). System consists of main tees and cross tees to create (24 inch by 24 inch) (24 inch by 48 inch) (20 inch by 60 inch) (____) modules.
2. Suspension exposed face shall be [(coated with factory applied baked-on enamel paint) (01 White) (44 Satin Silver Metallic) (____)] [371 Preferred Lacquer Mill] [anodized (14 Chromecoat) (16 Brasscoat) (509 Coppercoat)][painted color coordinated for woodgrain panel finish].
- D. Perimeter Treatment Components:
1. Wall Channels and hold-down inserts: Wall channels are formed from 0.020 inch (electro-galvanized steel) (aluminum) and manufactured to a C-shape, with a 3/4 inch top leg by 1-9/16 I.D. and 15/16 inch bottom leg. Length is 144. Finished identical to main tees and cross tees. Hold-Down Inserts are manufactured from the same material as wall channels and formed in a C-shape with 3/4 inch legs with 1 1/2 inch I.D. by (11 inch) (22 inch) length. Finish shall be supplied by manufacturer.
 2. Wall Angle: (C3209, 1 inch wide x 2 inches high x 120 inches long) (1430, 7/8 inch wide by 7/8 inch high x 144 inches long) finished identical to main tees and cross tees.
 3. Infinity™ Perimeter Trim: Made from extruded aluminum [(2)(4)(6)(8)(10)(12)] inches deep. Painted on all sides [(to match main tees and cross tees)(Other painted color _____)]. Panels to be (straight)(curved) as indicated on reflected ceiling plans.
- E. Accessories:
1. Interior Air Supply Diffuser Assembly: 24 in. x 24 in. square edge. (1)(2)(3)(4) slot design with center panel in same finish (and perforation) as other panels. Air Collar to be (6)(8)(10)(____) in. diameter.
 2. Interior Air Return Diffuser Assembly: (1)(2)(3)(4) slot design with center panel in same finish (and perforation) as other panels.
- F. Hanger Wire:
1. Hanger wire: galvanized.
- PART 3 - EXECUTION
- 3.01 Examination
- Examine area receiving system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.
- 3.02 Installation
- A. Metal panels supported by an appropriately installed Chicago Metallic (15/16")(9/16") grid system.
 - B. If required, insulation pads shall be laid upon the back of the panels (3" max. or 1 lb/sq.ft. max.).
 - C. If necessary, utilize Chicago Metallic hold down clips to keep the insulation pads in place.
 - D. Perimeter Treatment:
 1. Perimeter treatment: Install channel on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry accepted practice.
 2. Hold-down inserts install between the top leg of the wall channel and all metal panels.
 3. Additional Hanger Wires at locations where imposed loads could cause deflection exceeding 1/360 span.
 - E. Air Diffusers: coordinate with Mechanical (HVAC) Division.
- 3.03 Repair
- A. Remove damaged components, replace with undamaged components. Clean with non-solvent based non-abrasive commercial cleaning solution.



Chicago Metallic®

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