

1200 System & Fire Front 1250 System

MR-MANUFACTURER

Chicago Metallic

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Chicago Metallic is an industry leader in roll forming suspension systems for acoustical ceilings and Decorative Metal ceiling products for Commercial, Institutional, and Industrial Building Markets. With manufacturing plants in Chicago, Illinois; Baltimore, Maryland; Los Angeles, California; and Antwerp Belgium, Chicago Metallic has the capacity to provide an extensive line of quality products worldwide.

Chicago Metallic is a division of the Chicago Metallic Corporation.

PP-PRODUCT PRESENTATION

The 1200 System combines economy with versatility and flexibility to create an outstanding suspension system. Ease of installation and durability are a few of the many benefits of the 1200 and 1250 Systems.

Components are manufactured from commercial quality steel with sturdy double web construction for strength and long term service. All 1200 and 1250 System components are 1-1/2" high for maximum load carrying capabilities. The stainless steel end tab on all cross tee components features a stab-in design with a stepped end detail. This allows for labor saving installation and resistance to seismic lateral pull out. Cross tees can be easily removed when future needs require alterations to the system.

The main runners used in these systems are the same ones used in the 200 Snap-Grid and Fire Front 250 Systems. They are available in 10' and 12' lengths; when combined with cross tees offered in lengths of 1' to 8', a variety of modular configurations may be formed. All 1200 System cross tees are compatible with all 200 Snap-Grid components. For creative versatility, the 1200 System is offered in a wide selection of colors and finishes. An aluminum cap is also available for added corrosion resistance.

When building codes require a fire-rated ceiling, the Fire Front 1250 System provides a feature-packed solution. Identical in appearance, flexibility, and installation ease as the 1200 System, Fire Front 1250 offers fire-rated performance. With over 100 U.L. awarded designs, this system meets the majority of building codes in existence.

TS-TECHNICAL SUPPORT

Specification Guidelines for 1200/Fire Front 1250 Systems

Section 09500 - Acoustical Treatment

PART 1 - GENERAL

1.01 Section Includes

Provide metal suspension system for lay-in acoustical panel ceiling.

1.02 Related Sections

- A. Section 09120 - Ceiling Suspension Systems
- B. Section 09545 - Special Ceiling Surfaces
- C. Section 13020 - Integrated Ceilings
- D. Section 13080 - Sound, Vibration, and Seismic Control
- E. Section 15500 - Heating, Ventilating, and Air Conditioning
- F. 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.
- B. Underwriters Laboratories (U.L.) Fire Resistance Directory (latest edition).

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity and standards compliance.
- B. Samples: 12 inch long samples of main runner and cross tee with couplings.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weathertightness 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.

1.06 Maintenance

Furnish additional material equal to _____ percent of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturer(s)

Chicago Metallic (1200) (1250) (intermediate) (heavy) duty (non-rated) (fire-rated) Double Web Suspension System.

2.02 Suspension System Components

A. Main Runners:

- 1. Manufactured from (0.015) (0.020) inch thick steel 15/16 inch wide by 1-1/2 inches high by (120) (144) inches long with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings.
- 2. Capped with (steel) (aluminum) capping affixed to 15/16 inch flange.
- 3. Coated with factory-applied (standard [architect select color] baked-on enamel paint) (reflective [chrome coat] [brass coat] anodized aluminum) finish.
- 4. Manufactured with fire expansion reliefs on fire-rated components in accordance with Chicago Metallic illustrated details.

B. Cross Tees:

- 1. Manufactured from (0.008) (0.010) (0.015) (0.020) inch thick steel 15/16 inch wide by 1-1/2 inches high by (12) (20) (24) (30) (36) (48) (60) (96) inches long with factory punched

- cross tee slots and hanger holes.
 - 2. Capped identical to main runners.
 - 3. Coated identical to main runners.
 - 4. Manufactured with factory attached stainless steel couplings on component ends.
 - 5. Manufactured with fire expansion reliefs on fire rated components.
- C. Perimeter Treatment Components:
- 1. Angle Moldings: Manufactured from 0.020 inch thick steel (3/4) (15/16) inch wide by 15/16 inch high by (120) (144) inches long with (hemmed edges) (steel capped hemmed edges) (aluminum capped hemmed edges) finished identical to main runners and cross tees.
 - 2. Channel Moldings: Manufactured from 0.018 inch thick steel with factory-applied standard white baked-on enamel paint finish. Note - Specifier to select from channels offered by Chicago Metallic.
 - 3. Shadow Line Moldings:
 - a. Manufactured from 0.020 inch thick steel with 3/4 inch by 3/4 inch flanges, (3/4 inch by 3/4 inch) (3/8 inch by 3/8 inch) recess, and straight edges. Finished with factory-applied standard (white) (black) (white with black stripe) baked-on enamel paint finish.
 - b. Manufactured from 0.020 inch thick steel with 3/4 inch flange, 1-9/16 inch inside dimension, 3/8 inch x 3/4 inch recess, and hemmed edge. Finished with factory-applied standard white with blacktone recess baked-on enamel paint finish.

PART 3 - EXECUTION

3.01 Examination

Examine area receiving suspension system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.

3.02 Installation - **NON-FIRE-RATED SYSTEM**

- A. Main Runners: Installed (36) (48) (60) (96) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wires spaced (48) (60) inches on center along main runner length. Wrap hanger wires tightly 3 full turns at each end.
- B. Cross Tees:
 - 1. Installed perpendicular to main runners (12) (20) (24) (30) (36) (48) (60) inches on center to form _____ by _____ modules.
 - 2. Installed perpendicular to module forming cross tees to form _____ by _____ modules.
 - 3. Installed adjacent to each unsupported side of recessed fixtures.
- C. (Angle) (Channel) (Shadow Line) moldings: Installed on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry-accepted practice.
- D. Additional Hanger Wires: Wrapped tightly 3 full turns to structure and component at locations where imposed loads could cause deflection exceeding 1/360 span.

FIRE-RATED SYSTEM

- A. Suspension System Components: Installed in accordance with U.L. design number _____ guidelines.

3.03 Repair

- A. Remove damaged components, replace with undamaged components. Clean with non-solvent based non-abrasive commercial cleaning solution.