

200 System & Fire Front 250 System

MR-MANUFACTURER

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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 200 Snap-Grid System is a combination of our most popular features. Economy, versatility, and durability are integral attributes of this system. Components are manufactured from commercial quality steel with sturdy double web construction for strength and long term service.

The Snap-Grid end detail of the 200 System cross tees allow for time saving installation. Components quickly “snap” into place for a firm, positive lock every time. Additional benefits include easy disassembly. When future needs require alterations to the system, components can be easily disassembled and reused without special tools. Main runners 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. For creative versatility, the 200 Snap-Grid 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 250 Snap-Grid System provides a feature packed solution. Identical in appearance, flexibility, and installation ease as the 200 Snap-Grid System, the Fire Front 250 offers fire-rated performance. With over 100 U.L. awarded designs, this system meets the majority of building codes in existence. Each Fire Front 250 main runner and cross tee features built-in expansion reliefs which do not detract from the system's assembly, appearance, or performance.

TS-TECHNICAL SUPPORT

Specification Guidelines for 200/Fire Front 250 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. 12 inch long samples of main runners and cross tees with integral couplings.

1.05 Project Conditions

- A. Environmental Requirements:
 - 1. Verify weathertightness of area receiving suspension system prior to installation.
 - 2. Wet trades work to be thoroughly dry and complete prior to 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 double web (200) (250) (intermediate) (heavy) duty (fire) (non-fire) rated ceiling 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 wide 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.

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 inch(es) high by (12) (20) (24) (30) (36) (48) (60) (96) inches long with factory punched cross tee slots, hanger holes, and integral snap-grid end couplings.
- 2. Capped identical to main runners.
- 3. Finish identical to main runners.
- 4. 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 0.010 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 steel hanger wires, wrapped tightly 3 full turns, spaced (48) (60) inches on center along component length.
- B. Cross Tees:
 1. Installed perpendicular to main runners (12) (20) (24) (30) (48) (60) inches on center to form _____ by _____ modules.
 2. Installed perpendicular to module forming cross tees (12) (20) (24) (30) inches on center 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 components 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.