

## **200/1200 and Fire Front 250/1250 Concealed Accessible Systems**

### **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**

Chicago Metallic manufactures a variety of direct hung Concealed Ceiling Systems. Each system produces an elegant monolithic ceiling with the choice of side or end pivot for either upward or downward plenum access.

The 200 Concealed Access System is a recognized leader for concealed ceiling applications. The Fire Front 250 Concealed is the fire-rated version of the 200 Concealed System. Both versions offer our exclusive Snap-Grid cross tee end tab detailing. The 200 and 250 Systems are only available east of the Rocky Mountains.

The 1200 Concealed Access and the Fire Front 1250 are alternative systems with stab-in cross tee end tab detailing. This design difference allows for quick installation while providing superb resistance to seismic lateral pull out, and is available throughout the U.S.

### **TS-TECHNICAL SUPPORT**

## **Specification Guidelines for 200/1200 and Fire Front 250/1250 Concealed Accessible Systems**

Section 09500 - Acoustical Treatment

### **PART 1 - GENERAL**

#### **1.01 Section Includes**

Provide Concealed Accessible Suspension System for kerfed/rabbeted ceiling tile.

#### **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 Controls
- E. Section 15500 - Heating, Ventilating, and Air Conditioning
- F. Section 16500 - Lighting

### 1.03 Reference

- 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 standard 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 (211) (250) intermediate duty (non-rated) (fire-rated) Double Web Suspension System.

### 2.02 Suspension System Components

#### A. Main Runners:

- 1. Manufactured from 0.015 inch thick steel 15/16 inch wide by 1-1/2 inches high by 144 inches long with factory punched cross tee slots, hanger holes, and integral bayonet-style end couplings.
- 2. Capped with steel capping affixed to 15/16 inch flange.
- 3. Coated with industry-accepted practice white baked-on enamel paint 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 (24) (48) (60) 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 fire expansion reliefs on fire-rated components.

#### C. Access Components:

- 1. Manufactured from steel and providing (upward) (downward) access.
- 2. Initial access to consist of (1) (2) (3) (4) (5) ceiling tiles.

#### D. Concealed Splines:

- 1. Flat splines manufactured from steel with 13/16 inch face, 11-3/8 inch length, and painted white on one side.

2. Tee splines manufactured from steel with (11/16) (3/4) (13/16) inch face and (2) (3) (4) (5) feet long.

E. Accessories:

1. Spacer Bars: Manufactured from steel (2) (3) (4) (5) feet in length for rectangular bulb components.
2. Light fixture opening trims: Manufactured from white vinyl (2) (4) feet in length.
3. Wall springs: Manufactured from steel with 5/8 inch face and 7/8 inch deep.

F. 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 finished identical to main runners and cross tees.
2. Channel Moldings: Manufactured from 0.018 inch thick steel with industry-accepted practice standard white 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) inches on center, by direct suspension from existing structure, with not less than 12 gage hanger wire spaced 48 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 (36) (48) (60) inches on center to form \_\_\_\_\_ by \_\_\_\_\_ modules.
2. Installed adjacent to each unsupported side of recessed fixtures.

C. Access Components:

1. Installed perpendicular to main runners and located per manufacturer's recommendations.
2. Initial access locations to be identified with (manufacturer's access clip) (inverted pop rivet).

D. Concealed Splines:

1. Flat splines to be installed between tile kerfs parallel to main runners and not occupied by other components, except at initial access openings.
2. Tee splines to be installed between tile kerfs perpendicular to main runners and not occupied by other components.

E. Accessories:

1. Spacer bars to be installed as needed.
2. Light fixture opening trims installed around perimeter of opening forming \_\_\_\_\_ by \_\_\_\_\_ modules.
3. Wall springs installed between all wall moldings and adjacent border tiles.

F. (Angle) (Channel) Moldings:

Installed on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry-accepted practice.

G. 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.