

# CubeGrid Suspension 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

Chicago Metallic's new CubeGrid System is simply standard T-bar painted on all sides, with a minimum amount of slotting. The finished look is an "Open Cell" style ceiling that is both economical and versatile. Different module sizes are available such as 1' x 1', 2' x 2' and 4' x 4' in various colors. As an alternative, we can also offer standard grid with web covers. See the CubeGrid Product Index for additional information.

## TS-TECHNICAL SUPPORT

### Specification Guidelines for CubeGrid Suspension System

Section 09500 - Acoustical Treatment

#### PART 1 - GENERAL

##### 1.01 Section Includes

Provide metal suspension system for open cell style 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 Manufacturers

Chicago Metallic (200) (1200) double web intermediate duty non-fire rated ceiling 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 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.

##### B. Cross Tees:

1. Manufactured from 0.015 inch thick steel 15/16 inch wide by 1-1/2 inch(es) high by (12) (24) (48) inches long with factory punched cross tee slots, hanger holes, and integral (hook-over) (staked-on) end couplings.
2. Capped with steel 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 on all surfaces.

##### C. Perimeter Treatment Components:

1. Angle Moldings: Manufactured from 0.020 inch thick steel 15/16 inch wide by (3/4) (2) inch high by 144 inches long with steel capped hemmed edges finished identical to main runners and cross tees.

### **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 48 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 inches on center along component length.

##### B. Cross Tees:

1. Installed perpendicular to main runners (12) (24) (48) inches on center to form \_\_\_\_\_ by \_\_\_\_\_ modules.

2. Installed perpendicular to module forming cross tees (12) (24) inches on center to form \_\_\_\_\_ by \_\_\_\_\_ modules.
  3. Installed adjacent to each unsupported side of recessed fixtures.
- C. Wall Angle: 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.

### 3.03 Repair

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