

660 and Fire Front 670 Drywall Furring Systems

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 660 and Fire Front 670 Drywall Furring Systems contain all the characteristics and benefits as the 640 and Fire Front 650 Drywall Furring Systems except they feature stab-in furring tee end tabs and bayonet main runner couplings.

TS-TECHNICAL SUPPORT

Specification Guidelines for 660 and Fire Front 670 Drywall Furring Systems

Section 09100 - Metal Support Systems

PART 1 - GENERAL

1.01 Section Includes

Metal systems for supporting gypsum drywall in typical ceiling and soffit areas.

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 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.
 - 3. C645 - Standard Specifications for Non-load (AXIAL) Bearing Steel Studs, Runners (TRACK), and Furring Channels for Screw Application of Gypsum Board.
 - 4. C841 - Standard Specification for Installation of Interior Lathing and Furring.

- 5. E119 - Standard Methods of Fire Tests of Building Construction and Materials.
- 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 furring 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 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 (660) (heavy duty) (intermediate duty), (670 heavy duty) double web suspension system.

2.02 Suspension System Components

- A. Furring Runners: Manufactured from (0.020) (0.015) inch thick steel (1-3/8) (15/16) inch wide with (knurled) (smooth) face by 1-1/2 inches high by 144 inches long with factory punched cross tee slots, hanger holes, and non-directional bayonet end tab couplings.
- B. Furring Tees: Manufactured from (0.020) (0.012) inch thick 1-3/8 inch wide with knurled face by 1-1/2 inches high by 48 inches long with stab-in tab end couplings, factory punched cross tee slots, and hanger holes.
- C. Cross Tees:
 - 1. Manufactured from 0.020 inch thick steel 15/16 inch wide by 1-1/2 inches high by 48 inches long with stab-in tab end couplings, factory punched cross tee slots, and hanger holes.
 - 2. Coated with factory-applied white baked-on enamel paint finish.
- D. Wall Track:
 - 1. Manufactured from 0.020 inch thick steel (1-1/2) (1-9/16) inches high by 120 inches long with a 1 inch top and bottom flange.

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 hanger wires spaced 48 inches on center along main runner length. Wrap hanger wires tightly 3 full turns at each end.
- B. Furring Tees: Installed perpendicular to main runners (16) (24) inches on center to form

- _____ by _____ modules.
- C. Cross Tees: Installed adjacent to each unsupported side of recessed fixtures.
 - D. Wall Track: Installed on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry-accepted practice.
 - E. Additional Hanger Wires: Wrapped tightly 3 full turns to structure and component at locations where imposed loads could cause deflection exceeding $1/360$ span.

3.03 Installation - **FIRE-RATED SYSTEM**

- A. Installed in accordance with U.L. design number _____ guidelines.

3.04 Repair

- Remove damaged components, replace with undamaged components.