660 Exposed 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 660 Exposed System is a heavy duty system which offers a bold look as a result of an extra wide face. The width of the face is 1-3/8", which is 7/16" wider than standard exposed grid. In addition to providing a bolder look, the wider face accommodates special applications and uses. The system is available with either a steel or aluminum capped grid face.

The 660 System is ideal for clean room applications. The extra wide face facilitates the use of gasketing along with metal lay-in panels. This creates an air tight ceiling that prevents dust and other contaminants from entering the room. Some applications are photography labs and darkrooms, food processing plants, computer centers and other high tech areas that must be dust free.

Main runners offer fast assembly with knuckle joint end couplings that hold firm. They may be spaced 2', 4' or 5' on center to create a variety of modular configurations. This system is well suited for installations that require a heavy duty rating in which additional load carrying capacity is required. Cross tees employ our stab-in end tab and are installed in a similar fashion as the 1200 System cross tees.

TS-TECHNICAL SUPPORT

Specification Guidelines for 660 System

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 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.

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 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 Exposed heavy duty double web suspension system.

2.02 Suspension System Components
A. Main Runners:
1. Manufactured from 0.020 inch thick steel 1-3/8 inches 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 or aluminum capping affixed to 1-3/8 inch flange.
3. Coated with factory-applied standard [architect select color] baked-on enamel paint finish.
B. Cross Tees:
1. Manufactured from 0.020 inch thick steel (15/16) (1-3/8) wide by 1-1/2 inches high by (24) (48) (60) inches long with factory punched cross tee slots and hanger holes.
2. Capped with steel capping affixed to (15/16) (1-3/8) inch flange.
3. Coated identical to main runners.
C. Perimeter Treatment Components:
1. Angle Moldings: Manufactured from (0.020) (0.024) inch thick steel (15/16) (1-1/2) inch wide by (15/16) (1-1/2) inch high by 144 inches long with (hemmed edges) (straight edges) finished identical to main runners and cross tees.
2. Channel Molding: Manufactured from 0.018 inch thick steel 15/16 inch wide by 1-9/16 inches high by 144 inches long with hemmed edge 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

A. Main Runners: Install (48) (60) 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 (24) (48) inches on center to form _____ by _____ modules.
2. Installed perpendicular to module forming cross to form _____ by _____ modules.
3. Installed adjacent to each unsupported side of recessed fixtures.

C. (Angle) (Channel) 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.

3.03 Repair

A. Remove damaged components, replace with undamaged components.