

730 All Stainless Steel
830 All Aluminum
Environmental Ceiling 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.

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PP-PRODUCT PRESENTATION

The 730 System is designed for interior environments where high moisture levels and corrosive vapors may exist. Some examples are food, drug and chemical processors, laboratories, laundries, and marine environments. High sanitary conditions may be maintained because the system can be washed down or chemically cleaned.

Main runners are 12' in length, and are equipped with knuckle joint end detailing for fast, secure installation. Cross tees are available in 2' and 4' lengths with straight locking end tabs that install quickly and will dismantle easily without damage to components.

A metallurgist should be consulted regarding the suitability of this product for the environmental conditions in which it is being installed.

The 830 System provides the solution for ceiling installations in high moisture environments. Made entirely of roll formed aluminum, this system insures maximum corrosion resistance against moisture or high humidity. Suitable for such applications as commercial kitchens, lavatories, showers, or swimming pools, the 830 System is designed for years of trouble free service.

Main runners are 12' in length, and are equipped with knuckle joint end detailing for fast, secure installation. Cross tees are available in 2' and 4' lengths with straight locking end tabs that install quickly and will, if necessary, dismantle easily without damage to components. The 830 System requires no special tools for assembly or dismantling.

TS-TECHNICAL SUPPORT

Specification Guidelines for 730 and 830 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 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 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 (730 All Stainless Steel), (830 All Aluminum), (Intermediate), (Light), Duty Double Web Suspension System.

2.02 Suspension System Components

A. Main Runners:

- 1. Manufactured from (0.015) (0.024) inch thick (Stainless Steel) (Aluminum) 15/16 inch wide by 1-1/2 inches high by 144 inches long with factory punched cross tee slots, hanger holes, and integral knuckle-joint end couplings.
- 2. Capped with (Loluster Stainless Steel) (White Aluminum) (Satin Silver Aluminum) (Black Aluminum) capping affixed to 15/16 inch flange.

B. Cross Tees:

- 1. Manufactured from (0.015) (0.024) inch thick (Stainless Steel) (Aluminum) 15/16 inch wide by 1-1/2 inches high by (24) (48) inches long with integral snap-grid end couplings, factory punched cross tee slots, and hanger holes.

2. Capped identical to main runners.
- C. Perimeter Treatment Components:
1. Angle Moldings: Manufactured from (0.018) (0.024) inch thick (Stainless Steel) (Aluminum) 15/16 inch wide by 3/4 inch high by 144 inches long with 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

- A. Main Runners: Installed 48 inches on center, by direct suspension from existing structure, with not less than 12 gage electro-galvanized hanger wires spaced (48) (36) 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 inches on center to form 24 inch by 48 inch modules.
 2. Installed perpendicular to module forming cross tees to form _____ by _____ modules.
 3. Installed adjacent to each unsupported side of recessed fixtures.
- C. Angle 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. Clean with non-solvent based non-abrasive commercial cleaning solution.