

500 Snap-Grid 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 500 Snap-Grid System is one of the most widely specified acoustical suspension systems available. Efficient by design, the 500 System has proven to be durable as well as economical. With a single web component design, the 500 Snap-Grid System allows for significant cost savings over most double web systems. Yet this system still offers all the functional features and benefits found in double web designs.

Main runners offer fast assembly with either bayonet or knuckle joint end couplings. They may be spaced 2', 3', 4' or 5' on center to create a variety of modular configurations.

Cross tees employ our exclusive Snap-Grid feature, components simply “snap” together and stay firmly locked in place. The 500 System also offers easy disassembly without damage or the use of special tools.

TS-TECHNICAL SUPPORT

Specification Guidelines for 500 Snap-Grid 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 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.

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity and standards 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 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 Manufacturer(s)

Chicago Metallic 500 (intermediate) (heavy) duty single web suspension system.

2.02 Manufactured Units

A. Main Runners:

1. Manufactured from (0.020) (0.024) inch thick steel 15/16 inch wide by 1-1/2 inches by 144 inches long with factory punched cross tee slots, hanger holes, and integral (bayonet-style) (knuckle-joint) end couplings.
2. Coated with factory-applied standard (white) (black) baked-on enamel finish.

B. Cross Tees:

1. Manufactured from (0.018) (0.024) inch thick 15/16 inch wide by (1) (1-3/8) inch(es) high by (12) (24) (36) (48) (60) inches long with integral snap-grid end couplings, factory punched cross tee slots, and hanger holes.
2. Coated identical to main runners.

C. Perimeter Treatment Components:

1. Angle Moldings: Manufactured from 0.020 inch thick (3/4) (15/16) inch wide by 15/16 inch high by (120) (144) inches long with (hemmed edges) (steel capped hemmed edges) (aluminum capped hemmed edges) finished identical to main runners and cross tees.
2. Channel Moldings: Manufactured from 0.018 inch thick with factory-applied standard white baked-on enamel paint finish. Note - Specifier to select from channels offered by Chicago Metallic.
3. Shadow Line Moldings:
 - a. Manufactured from (0.010) (0.020) inch thick with 3/4 inch by 3/4 inch flanges, (3/4 inch by 3/4 inch) (3/8 inch by 3/8 inch) recess, and straight edges. Finished with factory-applied standard (white) (black) (white with black stripe) baked-on enamel paint finish.
 - b. Manufactured from 0.020 inch thick with 3/4 inch flange, 1-9/16 inch inside dimension, 3/8 inch x 3/4 inch recess, and hemmed edge. Finished with factory-applied standard white with blacktone recess 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

- A. Main Runners: Installed (36) (48) (60) inches on center, by suspension from existing structure, with not less than 12 gage hanger wire wrapped tightly 3 full turns and spaced (48) (60) inches on center along component length.
- B. Cross Tees:
 - 1. Installed perpendicular to main runners (12) (24) (36) (48) (60) inches on center to form _____ by _____ modules.
 - 2. Installed perpendicular to module forming cross tees (12) (20) (24) (30) inches on center to form _____ by _____ modules.
 - 3. Installed adjacent to each unsupported side of recessed fixtures.
- C. (Angle) (Channel) (Shadow Line) molding: Installed on vertical surfaces, intersecting main runners and cross tees, by appropriate method in accordance with industry-accepted practice.
- D. Additional Hanger Wires: Attached to structure and component, wrapped tightly 3 full turns, 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.