

Eurostone All-Environment Ceiling Panels

MR-MANUFACTURER

Chicago Metallic

U.S. Toll Free: 800-323-7164

FAX: 800-222-3744

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

Eurostone's unique, sculptured stone look is intrinsic to the material it is made from... primarily volcanic perlite. This volcanic stone is formed and fired in specially designed kilns at 960° F using a special inorganic binder to bond the stone particles together.

The result is a lightweight ceiling panel that can be cast in an unlimited variety of dimensional patterns. It is totally inorganic in nature, which makes it impervious to heat, moisture and microorganisms. And it has excellent acoustical and insulation properties.

Eurostone will not warp or twist even when exposed to excessive heat or humidity conditions. Since it is completely inorganic, it will not burn or give off toxic smoke when exposed to fire. Also it will not support the growth of mold, mildew or microorganisms. It contains no organic binder to feed bacteria or fungus, and no mineral fibers to migrate into the air and contaminate the surrounding environment, unlike conventional acoustical mineral tile.

The sculptured stone beauty of Eurostone, as well as the hidden practical attributes, make it an impeccable choice for any environment.

TS-TECHNICAL SUPPORT

Specification Guidelines for Eurostone All-Environment Ceiling Panels

Section 09500 - Acoustical Treatment

PART 1 - GENERAL

1.01 Section Includes

Provide Eurostone All-Environment Ceiling Panels and metal suspension system.

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 panel ceilings.
3. E1264 - Classification for Acoustical Ceiling Products.

1.04 Submittals

- A. Product data sheets listing dimensions, load carrying capacity of suspension systems.
- B. Product data sheets listing dimensions, acoustical properties, and environmental properties of ceiling panels.
- C. 12 inch long samples of main runners and cross tees with integral couplings.
- D. 6" x 6" samples of lay-in panels. Scored patterns have 12" x 12" samples.

1.05 Quality Assurance.

A. Fire Performance Characteristics

1. Surface burning characteristics: Provide products which achieve the following results when tested in accordance with ASTM E 84
 - a. Maximum flame spread 0.
 - b. Maximum smoke developed 0.
 - c. Fuel Contributed 0.
2. Provide products which achieve the following results when tested in accordance with ASTM E 1254 Cone Calorimeter Test
 - a. B.T.U. - 0.
 - b. Ignition - 0.
 - c. Mass Loss - 0.4% (exposed to heat flux 20 minutes).

B. Toxicity Performance Characteristics

1. Provide products having the following characteristics when tested in accordance with the University of Pittsburgh combustion toxicity protocol (NY State Toxicity Test):
 - a. Toxicity rating: zero (0), with 250 grams of material in the test chamber (non-toxic, non-lethal).

1.06 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 of suspension system to begin only when temperature and humidity conditions closely approximate conditions which will exist when area is complete and occupied.
4. HVAC systems to be operating prior to, during, and after installation.

1.07 Maintenance

Furnish additional materials equal to _____% of ceiling area.

PART 2 - PRODUCTS

2.01 Manufacturers

- A. Chicago Metallic (200) (1200) (4000) double web intermediate duty ceiling suspension system.
- B. Chicago Metallic Eurostone All-Environment Ceiling Panels.

2.02 Suspension System Components

A. Main Runners:

1. Manufactured from (0.015), (0.020) inch thick steel (15/16) (9/16) inch wide by 1-1-1/2 inches high by (120) (144) inches long with factory punched cross tee slots, hanger holes and integral bayonet-style end couplings.
2. Capped with steel capping attached to (15/16) (9/16) inch wide flange.
3. Coated with factory applied standard White-01 or Textured White-02 baked on enamel paint.

B. Cross Tees:

1. Manufactured from (0.015) (0.018) inch thick steel (15/16) (9/16) inch wide by 1-1/2 inches high by (12) (20) (24) (30) (36) (48) (60) inches long with factory punched cross tee slots, hanger holes, and integral end couplings.
2. Capped identical to main runners.
3. Coated identical to main runners.

C. Perimeter Treatment Components:

1. Angle Moldings: Manufactured from 0.020 inch thick steel (3/4) (15/16) inch wide by 15/16 inch high by (120) (144) inches long with (hemmed edges) (steel capped hemmed edges) finished identical to main runners and cross tees.

2.03 Acoustical Ceiling Panels

A. Lay-in Panels:

1. Manufactured from expanded perlite, ceramic clay and inorganic binder.
2. 24 inch by 24 inch by 7/8 inch thick.
3. Reveal edge for (15/16) (9/16) exposed T-bar suspension system.
4. Pattern (Architect select and insert pattern name).
5. Totally inorganic.
6. Impervious to heat, moisture and microorganisms.
7. Environmentally safe and recyclable.

PART 3 - EXECUTION

3.01 Examination

Examine area receiving acoustical ceiling 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 gauge 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 (24) (48) inches on center to form (24 x 48) (48 x 48) inch modules.
 2. Installed perpendicular to module forming cross tees to form 24 inch by 24 inch modules.
- C. Angle Moldings: Installed on vertical surfaces, intersecting suspension components, by appropriate method in accordance with industry accepted practice.
- D. Acoustical Panels:
 1. Installed in accordance with industry accepted methods providing accurate fit with suspension system members.
 2. Scribed and cut at perimeters and obstructions providing neat and precise edge details.

3.03 Repair

- A. Remove damaged suspension system components, replace with undamaged components. Clean with non-solvent based non-abrasive commercial cleaning solution.
- B. Remove damaged lay-in panels, replace with undamaged lay-in panels. Clean panels by vacuuming, brushing, or washing with water.