

Plenum Mask Linear Baffle Ceiling System

MR-MANUFACTURER

Interfinish

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Interfinish is a division of the Chicago Metallic Corporation focused on Metal and Specialty Ceiling Systems. The wide variety of ceiling products includes linear metal, open cell, baffles, skylights, metal tiles and planks, and security systems.

Interfinish was created in 1994 as a result of the acquisition of Alcan Building Products' Ceiling Division. Interfinish is a combination of Chicago Metallic's long history and experience of over 100 years in manufacturing building products, and Alcan's proven metal ceiling systems. Chicago Metallic's dedication and commitment to excellence extends to Interfinish with a strong focus on design innovation, quality and service.

Interfinish has local sales representatives located all across the country to promptly respond to your project needs, providing you with the extra effort and technical expertise that will help your project run more smoothly from start to finish.

PP-PRODUCT PRESENTATION

Plenum Mask is an economical concept in baffle ceiling design, combining a crisp, linear appearance with a pleasing, open, floating effect. Parallel blades, available in a variety of depths and varying intervals, screen the mechanical, electrical and plumbing network in the plenum to present an expressive statement suitable to any area.

Plenum Mask is versatile, easy-to-install, and is created from just a few basic components that offer long service life with minimal maintenance. This system does not fully enclose the plenum area and can be suspended considerably below it, free from mechanical involvement with lighting, air handling, and sprinkler systems.

In addition to new construction, Plenum Mask can be suspended below existing overhead structures for efficient and economical renovation projects.

TS-TECHNICAL SUPPORT

Specification Guidelines Plenum Mask Linear Baffle Ceiling System

Section 09500 - Acoustical Treatment

PART 1 - GENERAL

Specification Guidelines - Plenum Mask III Ceiling System

1.01 Scope

Furnish and install the Plenum Mask III Ceiling System as manufactured and supplied by Interfinish, a division of the Chicago Metallic Corporation.

1.02 Related Sections

- A. Section 09120 Ceiling Suspension Systems
- B. Section 09130 Acoustical Suspension Systems
- C. Section 09545 Special Ceiling Systems
- D. Section 13020 Integrated Assemblies
- E. Section 13080 Sound, Vibration, and Seismic Control
- F. Section 15550 Heating, Ventilating, and Air Conditioning
- F. Section 16500 Lighting

1.03 References

- A. American Society for Testing and Materials
 - 1. C 635 - Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
 - 2. C 636 - Standard Recommended Practice for Installation of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
 - 3. E-84 - Test Method for Surface Burning Characteristics of Building Materials

1.04 Submittals

- A. Product/Technical Literature
 - 1. Submit descriptive literature along with installation recommendations and practices, as described and illustrated in Interfinish literature.
- B. Samples
 - 1. Submit Interfinish sample kit containing appropriate Plenum Mask III System samples.
- C. Shop Drawings
 - 1. Submit shop drawings illustrating appropriate placement of product.
- D. Certification
 - 1. Furnish certification of materials and system conforming to specification requirements.

1.05 Project Conditions

- A. Environmental Requirements
 - 1. Verify that the area in which the Plenum Mask III system is to be installed is weathertight and dry.
 - 2. Installation shall occur only when temperature and humidity conditions closely approximate interior conditions that will exist when area is complete and occupied.
- B. Trade Requirements
 - 1. Heating or cooling systems shall be in operation in order to establish and maintain a suitable climate as referenced above prior to, during, and after installation.
 - 2. All wet trades work is to be dry and thoroughly complete prior to installation of the Plenum Mask III system.

1.06 Maintenance

- A. Replacement Material
 - 1. Furnish additional material equal to ___% of the ceiling system area.

Part 2 - Products

2.01 Manufacturer

- A. Plenum Mask III ceiling system as manufactured by Interfinish, 4849 S Austin Ave, Chicago, IL 60638-1492.

2.02 Materials

A. Aluminum Plenum Mask III Linear Baffle Ceiling System

1. Plenum Mask III Baffle Panels

- a. Manufactured with a V-shaped base from .025 aluminum.
- b. Coated with factory-applied baked polyester enamel paint finish.
- c. Formed to a nominal length existing within a range of 2' to 16', with a depth of 4", 6", or 8". Consult Interfinish for the availability of lengths existing outside the stated range.

2. Suspension System Components

- a. Carrier component shall be formed from .040 aluminum into a symmetrical carrier measuring 1.5" deep and 1.875" wide, and shall be finished in either -001 White or -008 Black. Integral attachment tabs, to which the Plenum Mask III panels are attached, shall be located on each of the carrier's legs, and shall be spaced 2" O.C. along the length of the carrier to provide flexible panel spacing.
- b. Consecutive carrier components shall be attached by means of a carrier splice. The carrier splice shall be formed from the same material as that used for the carrier component. Attachment to the carrier shall be accomplished with pop-rivets through pre-punched holes that align with similar holes present upon the legs of the carrier component described above.

3. Accessories

- a. Appropriate lower and upper clear acrylic panel alignment clips/sleeves shall be provided for connecting consecutive linear baffles panels.

B. Steel Plenum Mask III Linear Baffle Ceiling System

1. Steel Plenum Mask III Baffle Panels

- a. Manufactured with a V-shaped base from or .024 steel.
- b. Coated with factory-applied baked polyester enamel paint finish.
- c. Formed to a nominal length existing within a range of 2' to 16', with a depth of 4", 6", or 8". Consult Interfinish for the availability of lengths existing outside the stated range.
- d. Manufactured with attachment holes located, in increments of 2", along the top leg.

2. Steel Plenum Mask III Panel Suspension Components

- a. Main runner component shall be by Chicago Metallic #211, with a 15/16" face width, double web, and integral stab couplings, manufactured from .015 electro-galvanized steel to a length of 144".
- b. Cross tee components shall be Chicago Metallic #1214, with a length of 48" and features identical to the #211 main runner.
- c. Wall molding shall be as appropriate and manufactured by Chicago Metallic.

C. Accessories

1. Variable placement attachment clips shall be provided for either perpendicular or diagonal installation of the linear baffles to the suspension components.
2. Appropriate lower and upper clear acrylic panel alignment clips/sleeves shall be provided for connecting consecutive linear baffles panels.

Part 3 - Execution

3.01 Examination

- A. Examine area receiving system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.
- B. Verify completion of work above ceiling plane prior to cell panel installation.

3.02 Installation

A. Aluminum Plenum Mask III Linear Baffle Ceiling System

1. Suspension Components

- a. Carriers are to be installed on 48" centers and suspended from 12 gauge wire attached to the carriers at 48" centers.
- b. Interconnect carrier components using the carrier splice. Splice the carrier components together by aligning the four fastener holes (2 per side) present upon the splice with those present upon consecutive carriers. The splice is to be fastened to the consecutive carriers with 3/16" pop rivets.
- c. Affix wall molding, which intersects the carriers at the perimeter of the installation, to a vertical surface by an appropriate industry-approved method.

2. Linear Baffles

- a. Attach linear baffle panels to the carrier components by aligning the attachment holes present upon the linear baffles with the integral attachment tabs present upon the carrier component. Attach the panel to the carrier by inserting the carrier tabs into the panel holes.
- b. Linear baffles shall be installed to the carrier component so as to run perpendicular to the carrier components.
- c. Center spacing for the linear baffles shall be either as noted on project drawings or, most commonly, identical to the depth of the baffle panel. The spacing shall be in 2" increments.
- d. Consecutive linear baffles shall be interconnected by the appropriate lower and upper panel clips/sleeves.
- e. Maximum allowable overhang for linear baffle panels shall be approximately 6".

B. Steel Plenum Mask III Linear Baffle Ceiling System

1. Suspension Components

- a. Main runners are to be installed on 48" centers and suspended from 12 gauge wire attached on 48" centers.
- b. Interconnect main runners with cross tees inserted on 48" centers along the length of the runner, resulting in 48" x 48" modules.
- c. If required, install web covers over the vertical section of the main runner and cross tee components.
- d. Affix wall molding, which intersects runners and tees at the perimeter of the installation, to a vertical surface by an appropriate industry-approved method.

2. Linear Baffles

- a. Attach linear baffle panels to suspension components using the variable placement attachment clip, which shall be affixed to the main runner components.
- b. Linear baffles shall be installed so as to run perpendicular or diagonally to main runner components to which the variable placement attachment clip is affixed.
- c. Center spacing for the linear baffles shall be either as noted on project drawings or, most commonly, identical to the depth of the baffle panel.
- d. Consecutive linear baffles shall be interconnected by the appropriate lower and upper panel clips/sleeves.
- e. Maximum allowable overhang for linear baffle panels shall be 6".