

MagnaGrid Open Cell 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

MagnaGrid is an integrated open cell system offering a monolithic statement that is as magnificently versatile as it is functional. A durable ceiling system with concealed suspension, MagnaGrid is easy to install and maintain. This open cell system makes attractive statements in everything from boutiques and restaurants to office buildings and shopping malls.

Lighting, HVAC, sprinklers, and sound treatments can be incorporated in, above, or below the MagnaGrid system without detracting from its superlative looks. A solution for style, flexibility, and cost efficiency, the MagnaGrid ceiling system is a good reflection of any image.

TS-TECHNICAL SUPPORT

Specification Guidelines

MagnaGrid Open Cell Ceiling System

Section 09500 - Acoustical Treatment

PART 1 - GENERAL

1.01 Scope

- A. Furnish and install the MagnaGrid Ceiling System as manufactured and supplied by Interfinish, a division of Chicago Metallic Corporation.

1.02 Related Sections

- A. Section 09120 Ceiling Suspension Systems
- B. Section 09130 Acoustical Suspension Systems

- C. Section 09545 Special Ceiling Surfaces
- D. Section 13020 Integrated Assemblies
- E. Section 13080 Sound, Vibration, and Seismic Control
- F. Section 15550 Heating, Ventilating, and Air Conditioning
- G. Section 16500 Lighting

1.03 References

- A. American Society for Testing and Materials (ASTM)
 - 1. C 636 - Standard Recommended Practice for Installation of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.

1.04 Submittals

- A. Product/Technical Literature
 - 1. Submit descriptive literature along with installation recommendations and practices as illustrated in appropriate Interfinish literature.
- B. Samples
 - 1. Submit Interfinish sample kit containing appropriate MagnaGrid 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 MagnaGrid 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 MagnaGrid Ceiling 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. MagnaGrid Ceiling System as manufactured by Interfinish, 4849 S Austin Ave, Chicago, IL 60638-1492.

2.02 Materials

- A. Integrated Cell Panel: The panel shall measure (2' x 2') (4' x 4') and be comprised of U-shaped metal blades of two types, A and B, that measure 3/8" wide and (1.2") (1.6") (2.0") high, that interlock to form cell shapes of various sizes (2.6" x 2.6", 3" x 3", 3.4" x 3.4", 4" x 4", 4.8" x 4.8", 6" x 6", 8" x 8", 12" x 12", and 24" x 24"). The availability of cell sizes comprised of blades with one of the three heights noted above shall be as stated within Interfinish literature. The panels shall be manufactured from .015" steel or .020" aluminum

with a finish as selected from those offered for this system by Interfinish. Attachment tabs shall be formed at each end of the blades in order to provide a means of attachment to the suspension components described below. The panel shall be supplied assembled or unassembled.

- B. Integrated Suspension System: The suspension system shall interlock to form (2' x 2') (4' x 4') modules into which the cell panel will be attached. The suspension system shall be comprised of three components: hanger runner, cross runner, of 2 ft. and 4 ft. lengths, and hanger clips, either wire or rod.
1. The hanger runner component shall be of a U-shape design, measuring 3/8" wide x 8 ft. long x (1.2") (1.6") (2.0") high, and fabricated from the same metal used to manufacture the panel. The hanger runner shall be directional in application, with a male end, containing an integral splice plate, and a female end. The integral splice plate shall be utilized to connect consecutive hanger runner components by interlocking with the female end of a successive hanger runner component. The hanger runner shall be slotted on appropriate centers in order to accommodate the attachment tabs of the cell panel and cross runner.
 2. The cross runner component shall be of (4') (2') length and shall be manufactured to the same dimensions and from the same material as the hanger runner. The cross runners shall also be slotted on appropriate centers in order to accommodate the attachment tabs of the cell panel. The cross runners shall interconnect with the hanger runner at any notch location by means of an attachment tab, located at each end of the runner.
 3. The ceiling system shall be suspended by means of a wire or rod hanger clip that is inserted into factory-punched holes located on the hanger runner component.
- C. Perimeter Treatment: At the perimeter of the installation, various types of perimeter trims shall be utilized.
1. For applications where the MagnaGrid ceiling system runs wall-to-wall, an L-shaped angle shall be selected as perimeter treatment. The angle shall be manufactured from various thicknesses and types of metal, coated with a matching finish, when applicable. The choice of angle shall be dictated by project conditions and installation requirements.
 2. For free-floating MagnaGrid applications, a perimeter cap or perimeter channel shall be utilized. The perimeter cap shall be utilized when the end-of-ceiling system conditions are such that a full cell panel blade or runner exists. The perimeter cap shall be affixed to the panel blade or runner by means of double-sided adhesive tape. The perimeter channel shall be utilized when the end-of-ceiling system conditions are such that cut edge of either a cell blade or runner exists. The channel shall attach to the cut edge by means of a friction fit. Both the cap and channel shall be formed from similar material as that used to form the cell panels and runners.
- D. Accessories: Various accessory items shall be offered in order to provide a fully-integrated ceiling system.
1. Light Fixtures - Incandescent fixtures of two types, an SQ-1 Single Cell Fixture and a PY-4 Quad Cell Fixture, shall be supplied as requirements dictate. The SQ-1 fixtures shall range in size from 3.4" wide to 6" wide, for use with MagnaGrid systems with corresponding cell sizes. The PY-1 fixtures shall range in size from 6" to 12" wide, for use with MagnaGrid systems of appropriate cell dimensions. Both fixtures shall be supplied with electrical cords in place. Due to the load-bearing requirements of the MagnaGrid system, certain fixtures, as specified in the Interfinish MagnaGrid product index, shall be supplied with hanger brackets for independent suspension. Incandescent light fixtures are by others.
 2. Infill Panels - Lay-in infill panels to fit within appropriately modified (when necessary) MagnaGrid cell panels shall be supplied and will serve as a means to integrate incandescent fixtures within the ceiling system. The infill panels shall be of three designs:

1. designed to fit within a single cell and rest flush with the plane of the ceiling system;
2. designed to fit within multiple cells and rest flush with the plane of the ceiling system;
3. designed to replace a standard 24" x 24" MagnaGrid panel; and,
4. designed to rest on top of a MagnaGrid panel, covering either one or multiple cells.

PART 3 - INSTALLATION

3.01 Inspection and Preparation

- A. Inspect area in which ceiling system is to be installed in order to identify any conditions that might adversely affect the installation of the ceiling system. Do not start work until adverse conditions have been corrected. Verify that all work performed by other trades above the ceiling system has been completed prior to installation.
- B. Field measure the area in which the ceiling system is to be installed and establish the layout in order to create appropriate borders and minimize out-of-square conditions.

3.02 Installation

- A. Suspension System: Hanger runners shall be installed 4 ft. O.C. and be suspended directly from the structure above by not less than 12 gauge electro-galvanized hanger wire spaced 4 ft. O.C. along the length of the hanger runner. The hanger wire shall be attached to hanger clips or hanger rods that are inserted into factory-punched holes located along the length of the hanger runner. The hanger runners are to be interconnected by 4 ft. cross runner components installed at appropriate intervals along the length of the hanger runner. The 4 ft. cross runners shall be bridged at midpoint, when dictated by panel size, by 2 ft. cross runners.
- B. Integrated Cell Panel: The integrated cell panel shall be installed within the same-sized module created by the suspension components. The panel shall interlock with the hanger runner by means of attachment tabs located at each end of the panel blades. Cut panels as necessary for border and penetration treatments. When required, install integrated light fixtures, infill panels, bird screen/spring clip, and exterior hold-down clips as necessary.
- C. Perimeter Treatment: Angle shall be used in those instances where the MagnaGrid system is to be attached directly to a wall or other structure that establishes the perimeter of the installation. The angle should be attached utilizing an industry-accepted practice, with care taken to minimize the placement of attachment devices in those visible areas between the blades of the MagnaGrid panel. In those instances where the MagnaGrid system is to have a floating perimeter, the perimeter channel or perimeter cap, as installation conditions dictate, shall be utilized. The perimeter channel shall be affixed to the MagnaGrid system by means of a friction fit, and the perimeter cap shall be attached to the MagnaGrid system by means of double-sided tape attached to the inner web of the cap.

3.03 Repair and Clean

- A. Repair any damaged or dented areas by removing and replacing the affected components.
- B. Clean all ceiling system components with a non-solvent-based, non-abrasive commercial cleaning solution.