

# **BeamGrid 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**

BeamGrid Open Cell Ceiling System offers the innovative illusion of a ceiling; a large scale open grid which visually creates the upper boundary of a room or space. BeamGrid unobtrusively masks a dark plenum in which HVAC, sprinklers, smoke detectors, sound treatments, and all other building services can function effectively.

Composed of a series of easily interlocked, suspended beams, BeamGrid conveys the appropriate statement to a design project, regardless of its scope. Lighting can be directed through from above, rest directly on, or be suspended within this open cell system.

BeamGrid is an economical solution for spaces from large public areas to small shops in which the appearance of a lowered ceiling plane is desired, even when a lowered ceiling itself is not feasible.

## **TS-TECHNICAL SUPPORT**

### **Specification Guidelines**

#### **BeamGrid Open Cell Ceiling System**

Section 09500 - Acoustical Treatment

#### **PART 1 - GENERAL**

##### 1.01 Scope

- A. Furnish and install the BeamGrid 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 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-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-580 - Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels in Areas Requiring Seismic Restraint.

## 1.04 Submittals

- A. Product/Technical Literature
  - 1. Submit descriptive literature along with installation recommendations and practices as illustrated in Interfinish literature.
- B. Samples
  - 1. Submit Interfinish sample kit containing appropriate BeamGrid ceiling samples.
- C. Shop Drawings
  - 1. Submit shop drawings illustrating appropriate placement and installation of the BeamGrid Ceilings System.
- D. Certification
  - 1. Furnish certification of materials and system conforming to specification requirements.
  - 2. Provide written warranty against defective workmanship and materials for a period of \_\_\_ year(s) (up to 20 yrs. maximum) from filing notice of completion.

## 1.05 Project Conditions

- A. Environmental Requirements
  - 1. Verify that the area in which the BeamGrid Ceiling System shall 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 BeamGrid 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. BeamGrid Ceiling System as manufactured by Interfinish, 4849 S Austin Ave, Chicago, IL 60638-1492.

## 2.02 Materials

### A. Main Beam Component

1. The Main Beam component shall be formed to a channel shape with a nominal (1" x 1") (1" x 2") (1" x 5") (2" x 2") (2" x 4") (3" x 3") (4" x 4") profile. A return measuring a minimum of 3/16" wide shall be formed at the top of each leg of the channel for dimensional stability. The Main Beam component shall be formed from an appropriate gauge and type of metal, as selected by Interfinish, which is coated with an oven-baked polyester enamel or polished reflective finish.
2. Varying module sizes may be achieved using appropriate Main Beam and Cross Beam (described below) components. Main Beam components shall be slotted accordingly to receive appropriate Cross Beam components necessary for completion of the desired module size. Four factory-punched holes shall be provided on each side of the Main Beam component at the location of the Cross Beam slot. The holes will be utilized as attachment points for the Splice/Hanger Wire Attachment Clip described below. Factory-punched holes will also be provided at each end of the Main Beam component to allow for attachment of the Clip when employed as a splice.

### B. Cross Beam Component

1. The Cross Beam component shall be formed to a profile identical to that of the Main Beam component. The metal type, thickness, and finish of the Cross Beam component shall be identical to that of the Main Beam component.
2. When module size dictates, the Cross Beam component shall be slotted in order to receive other Cross Beam components. All Cross Beam components shall be formed with attachment tabs located at each end of the component. The Cross Beam shall interconnect with the Main Beam or other Cross Beam components by means of these attachment tabs, which are inserted into the appropriate slots located on the Main Beam and Cross Beam components.

### C. Splice/Hanger Wire Attachment Clip

1. The Clip shall be used to splice together Main Beam components over runs that exceed the standard length of the component. The Clip shall be designed to fit within the channel of the Main Beam component, and shall have factory-punched holes that align with those holes present on the Main Beam at each Cross Beam slot and at the ends of each Main Beam. The Clip shall be affixed to Main Beam components with pop-rivets.
2. When employed as an attachment point for hanger wire, the clip shall be affixed, in the manner described above, at appropriate center spacing along the length of the Main Beam component. The Clip shall be provided with an appropriate eyelet for hanger wire attachment.

### D. Perimeter Beam

1. The Perimeter Beam shall be formed to a profile identical to that of the Main Beam and Cross Beam components. The metal type, thickness, and finish of the Perimeter Beam component shall be identical to that of the Main Beam and Cross Beam components.
2. The Perimeter Beam components shall be slotted, on appropriate centers as dictated by module size, in order to receive BeamGrid ceiling components.

### E. Factory Corner Kits

1. Corner Kits that permit the construction of 90-degree BeamGrid corners shall be provided for free-floating applications requiring the precise construction of such a treatment. As part of the factory service, the BeamGrid components to be used in the construction of the 90-degree corners shall be provided with 45-degree miters at the appropriate ends.

## **PART 3 - EXECUTION**

### **3.01 Inspection and Preparation**

- A. Inspect the area in which the BeamGrid ceiling system is to be installed in order to identify any conditions that might adversely affect the installation of the ceiling system. Do not begin work until the adverse conditions have been corrected.
- B. Verify that all work performed above the ceiling plane by other trades has been completed prior to the start of installation.

### **3.02 Installation**

- A. Affix Splice/Hanger Attachment Clip on appropriate centers, as recommended by Interfinish, to Main Beam components. Suspend Main Beam components from 12 gauge hanger wire attached to the Clip. Main Beams are to be installed on appropriate centers as dictated by module size and component layout. For continuous runs of Main Beam components, splice the components together by pop-riveting the clip to the consecutive Main Beam components.
- B. Install Cross Beam components by inserting the attachment tabs located at each end of the component into the appropriate slot on the Main Beam component. As required, complete the desired module size by bridging slotted Cross Beam components with non-slotted components.
- C. Complete the system by affixing Main Beam and Cross Beam components to the Perimeter Beams. For free-floating applications, the Perimeter Beam components shall be suspended from 12 gauge wire attached to Splice/Hanger Wire Attachment Clips affixed to the component in an identical manner as described above for the Main Beam components. For applications requiring the BeamGrid system to be affixed to a wall or other structure establishing the perimeter of an installation, attach the Perimeter Beams to the structure, prior to installing Main Beam and Cross Beam components, by means of an industry-accepted practice. For free-floating applications, attach the 90-degree corners, upon completion of field assembly, to appropriate components by means of the Splice/Hanger Wire Attachment Clip.

### **3.03 Repair and Clean**

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

### **3.04 Maintenance Material**

- A. Furnish additional material equal to \_\_\_\_% of the ceiling system area.