Rockfon® Beamgrid®

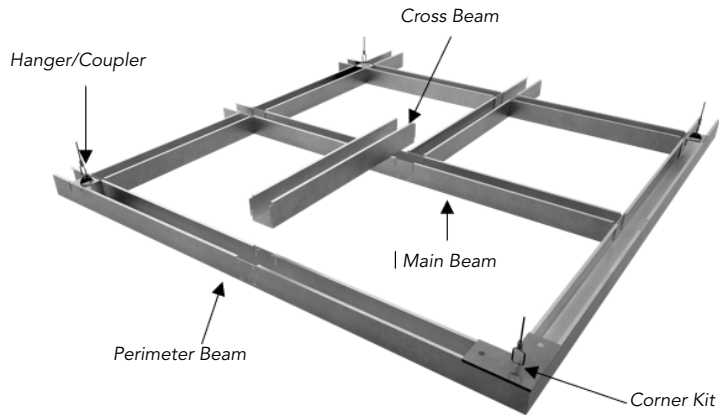## Open Plenum System

Interior Installation Guide

Project – Fort Snelling National Guard Dining Hall, MN
Product – Rockfon® Beamgrid®

System Overview

Rockfon Beamgrid is an open plenum, decorative, ceiling system for interior applications only. The system consists of main beams, perimeter beams, cross/filler beams, suspension hangers/couplers, corner kits, and wall channel. The beam sizes are available in a variety of profiles and modules.

Download Datasheet

Hanger/Coupler

Cross Beam

Main Beam

Perimeter Beam

Corner Kit

Best Practices

Always follow good safety practices when installing ceilings. Prior to beginning installation ensure that all materials are received and in good condition. Record any shipping damage on the carrier's bill of lading and contact Rockfon immediately to order replacement material:

- Email: **cs@rockfon.com**
- Fax: 866-211-3824
- Tech Services: 800-323-7164

If there are any issues with your order, contact Customer Service at 1-800-323-7164, telephone option 1.
E-mail replacement material orders, including your purchase order number on document, to cs@rockfon.com.
For technical assistance, contact Technical Services at 1-800-323-7164, telephone option 2.

Installation Conditions

Temperature and Humidity

Avoid installation in high moisture conditions where the space is not properly ventilated and acclimatized. Rockfon Beamgrid should be installed in a clean environment, free from construction dust and debris.

Handling

Beamgrid comes shipped in cartons and should be stored in a dry location. Prior to installation, inspect the cartons for damage. Use care in handling and removing the beams. It is recommended to use clean gloves with a non-marking rubber/latex coating or polyethylene gloves when handling Rockfon metal ceiling products to avoid contamination. Beamgrid ships with a strippable plastic film, remove before assembly. For Beamgrid components longer than 4' it is recommended that two installers handle when moving or installing into the ceiling plane.

Reference Documentation

Several industry standards are published and available. Acoustical and metal ceiling installers should familiarize themselves with the installation methods and best practices recommended for ceiling systems.

Prior to installation, it is imperative the installer become familiar with any project specific documentation available. These items will confirm ceiling layout, panel sizes and finish, ceiling accessories, ceiling fixture layout and orientation, and any special edge conditions.

Industry Standard Documentation

- ASTM C636 (Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels, **https://www.astm.org/Standards/C636.htm**)
- **CISCA Metal Ceilings Technical Guidelines**
- **CISCA Ceiling Systems Handbook**

Project Specific Documentation

- Reflected ceiling plans
- Project specifications
- Approved project submittals (data sheets, shop drawings)

Other Documentation

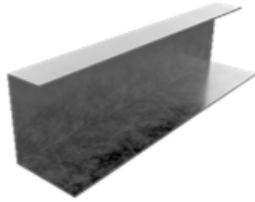- **Open Cell Brochure**
- **Product Specifications**

Tools Required

- Laser or leveling device
- Marking tool (pencil)
- Square nose side cutter
- Clean gloves
- Miter saw
- Wood backing (for cutting)
- Tape measure
- Slot screwdriver
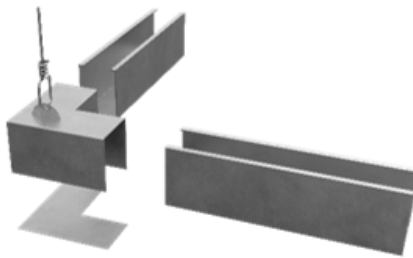- Phillips screwdriver

System Components

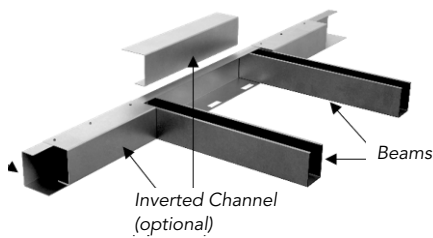
Beams

Wall Channel

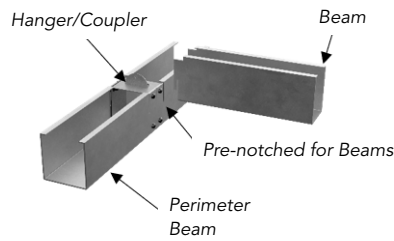Hanger Coupler

Corner Kit

1. Beamgrid Installation

Each Beamgrid order is project specific and should be laid out according to the approved project shop drawings. Special attention should be given to the squareness of the system. Failure to have a square system will create a poor aesthetic in the ceiling installation. Location and placement of the hanger wires needs to be accurate and plumb. Use minimum 12-gauge galvanized steel hanger wire per ASTM C636 for suspending the beam components.

1.1 Secure the specified perimeter treatment to the walls using appropriate fasteners. Two options are available, an open channel option or a double channel option to create a beam look at the walls. Reference any project documents for proper ceiling elevation.

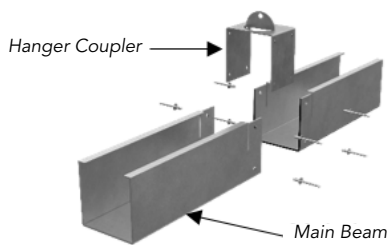For floating installations, it is recommended to install the perimeter beams first.
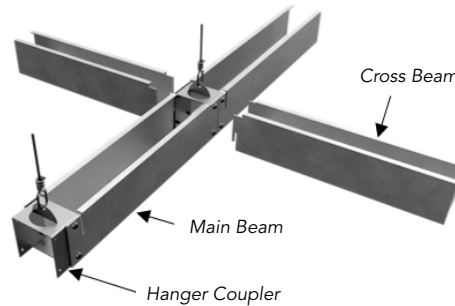

Wall Detail

Floating Detail

1.2 Locate main beams and field cut to length at wall terminations. Splice beams together by inserting suspension hanger brackets and pop riveting to main beams. Attach main beams to perimeter wall channel with Tek screws. If attaching to a floating perimeter beam, the perimeter beam is pre-notched to accept the main beams. Install remaining cross beams and filler beams into pre-slotted notches in the main beam. Field cut as necessary at wall terminations. For floating installations, cross and filler beams do not require field cutting to attach to pre-notched perimeter beams.

Beam Splice

Beam Intersection

1.3 Cutting Beamgrid components is usually required at wall terminations. This can be accomplished using a miter saw with a high quality metal cutting blade. Allow the blade to come to full speed before cutting the beams. Cut the beams in a slow motion, not forcing the blade too fast, as to not distort the beams. Using a wood backer inside the beam is recommended.

2. Cleaning

Select a mild, non-abrasive cleaning agent typically used for cleaning painted or reflective surfaces. Never use abrasive cleaning agents, as they may scratch, mar, alter, discolor, and/or remove the finish.

Before cleaning the finish, perform a trial test on a section of the finish which will be hidden from view once installed. This will ensure that the cleaning agent selected is appropriate and will not damage the finish in question.

Once an appropriate cleaning solution has been selected, care should be taken to use only the amount which is necessary. Do not soak the ceiling components with the solution.

Use a clean soft sponge or cloth when applying the cleaning agent in order to ensure the applicator does not contain any abrasive elements which may damage the finish.

Any excess cleaning solution should be removed immediately so that the solution does not dry and possibly leave a residue. In the event a large area needs to be cleaned, it is advisable to break the area into smaller, more manageable sections, so that adequate time is available to complete each phase of the cleaning process.

After cleaning the soiled or smudged area, wipe the surface with a dry soft cloth to remove any residual cleaning solution and to dry the area. Use a clean damp cloth to remove any residue that cannot be removed with the dry cloth. Repeat the drying process.

After the components are clean, allow a few minutes for air drying before installation. It is important that the clean components are dry to ensure that other materials, such as insulation, which may be susceptible to damage from moisture does not come contact any moisture or damage from the cleaned materials. For additional cleaning information, please refer to our technical datasheet "**How to Clean Painted & Reflective Ceiling Component Surfaces.**"

Have Questions?

Contact the Rockfon Technical Services Team by calling **800-323-7164** and we can provide assistance on your project.

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