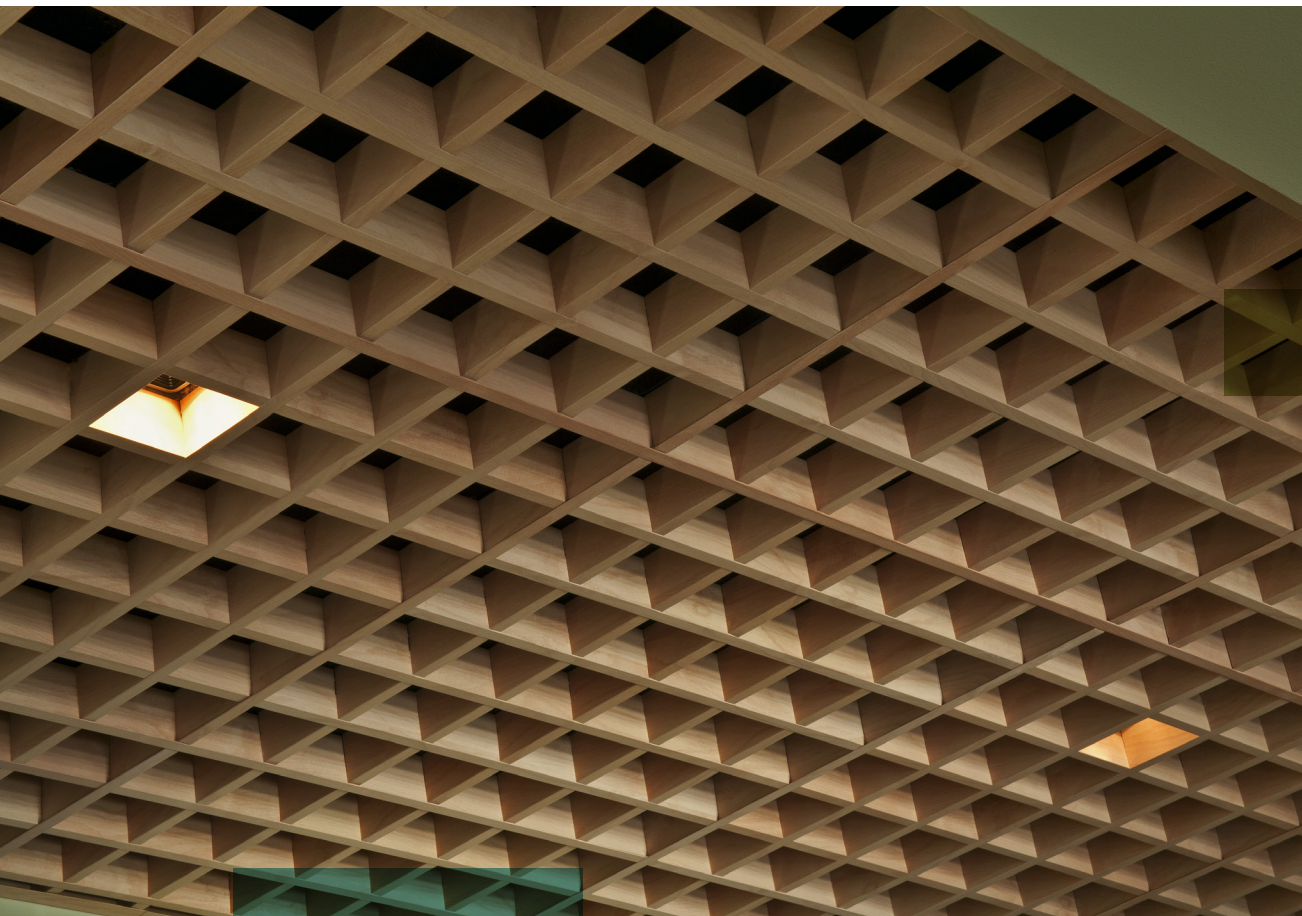# Rockfon® Magna T-Cell™
Open Cell System

Interior Installation Guide
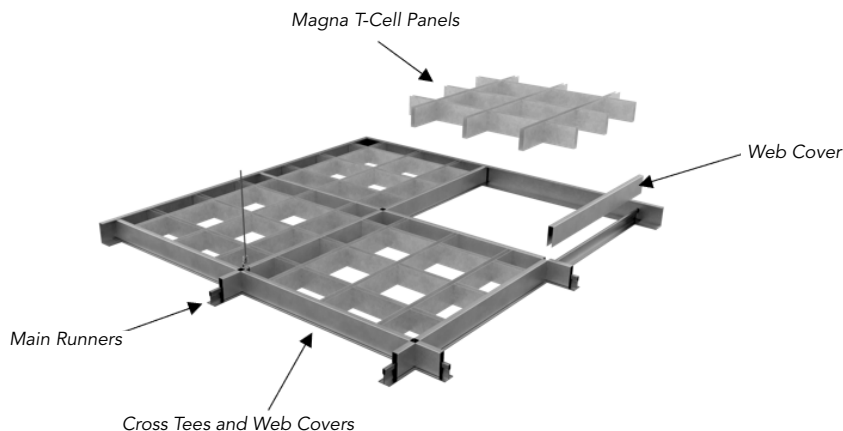

Project – Fort Snelling National Guard Dining Hall, MN
Product – Rockfon® Magna T-Cell™

System Overview

Rockfon Magna T-Cell panels are an open cell ceiling system for interior applications only. The panels lay into a 9/16" grid suspension module. The system includes grid web covers to create a monolithic appearance with the 9/16" grid suspension. The panels come in sizes of 2x2, 2x4, and 4x4. Several cell sizes are available.

Download Datasheet

Magna T-Cell Panels

Web Cover

Main Runners

Cross Tees and Web Covers

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 Magna T-Cell panels should be installed in a clean environment, free from construction dust and debris.

Handling

Panels come shipped, assembled or unassembled, 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 panels. It is recommended to use clean gloves with a non-marking rubber/latex coating or polyethylene gloves when handling Rockfon metal ceiling panels to avoid contamination. If panels include strippable plastic film, remove before assembly. For panels larger than 2'x4' it is recommended that two installers handle the panels 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's 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)
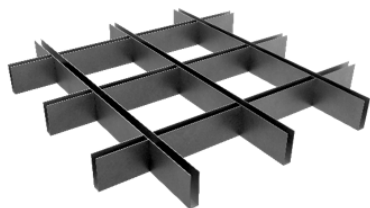
Other Documentation

- **Datasheet** (Accessed via the Rockfon website)
- **Open Cell Metal Ceilings Brochure**
- **Product Case Study**
- **Product Specifications**

Tools Required

- Laser or leveling device
- Marking tool (pencil)
- Square nose side cutter
- Clean gloves
- Aviation snips
- Tape measure
- Slot screwdriver
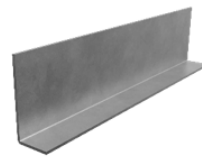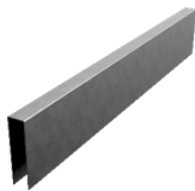- Phillips screwdriver

System Components

Assembled Panel

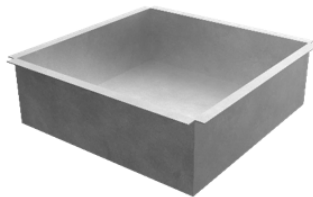9/16" Grid Suspension

Edge Cap

360 Degree Painted Angle
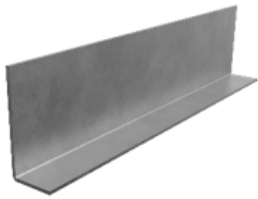
Web Cover

Web Cover with Hanger Hole

Infill Panel

Infinity Trim

1. Suspension System Installation

All suspension must be installed per ASTM C636 including local building codes and standards. Special attention should be given to the squareness of the system. Failure to have a square system will create a poor aesthetic with misalignment in the corners and difficulty in installing the panels. It is also recommended to plan the layout for equal borders and that small perimeter panels less than 1/2 of a panel's width be avoided. Use minimum 12 gauge galvanized steel hanger wire per ASTM C636 for suspending the grid.

1.1 Secure the specified perimeter treatment (see additional options below) to the walls using appropriate fasteners. Reference any project documents for proper ceiling elevation.
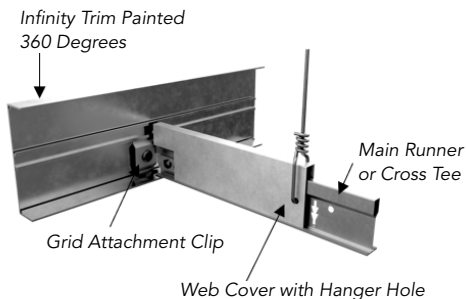
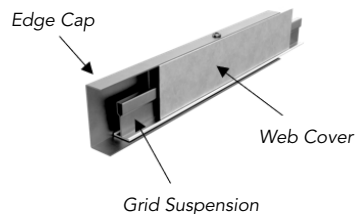360 Degree Painted Angle   Standard Wall Angle

Floating Perimeter Options

Floating installations are trimmed out with Infinity™ extruded aluminum trim or brake metal edge cap.

■ If using Infinity perimeter trim, attach to suspension using appropriate grid attachment clips. Notch out web cover. Install additional hanger wires as needed.

■ For edge cap installation, install edge cap over web cover and grid, fasten to web cover with pop rivet or self-drilling screw.
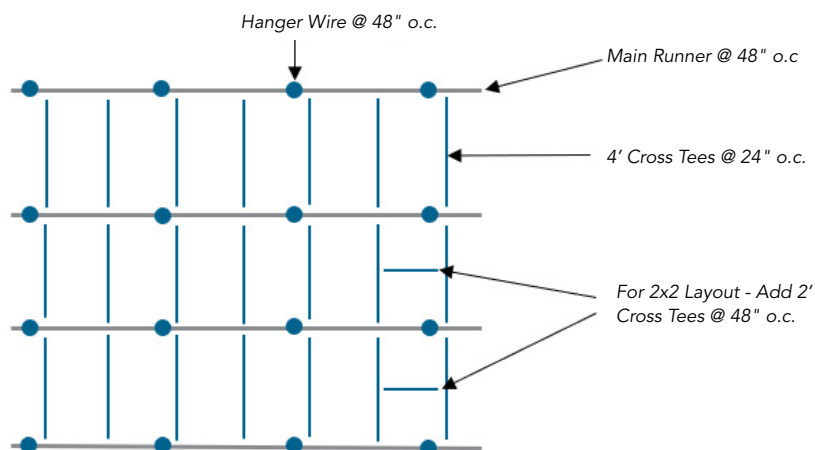
Infinity Trim Painted 360 Degrees

Main Runner or Cross Tee

Grid Attachment Clip

Web Cover with Hanger Hole

Infinity Trim
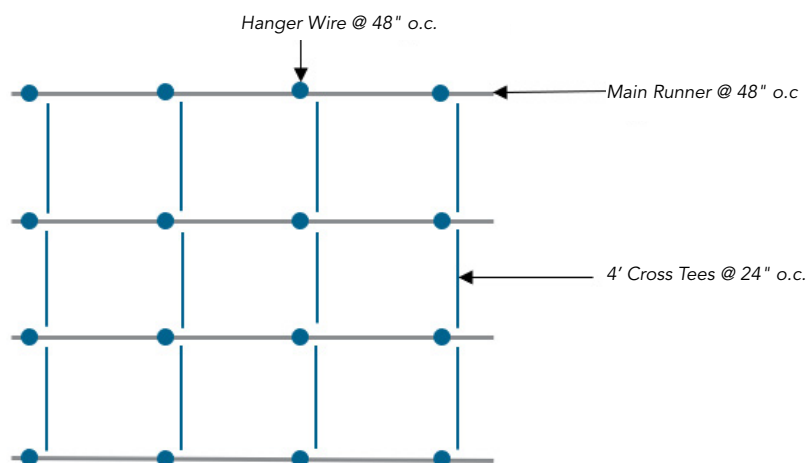
Edge Cap

Web Cover

Grid Suspension

Edge Cap

1.2 The layout of the suspension is dependent upon the size of the panels. The grid module should match the panel size of 2x2, 2x4, or 4x4.

Note - During the main runner installation, web covers with hanger holes must be installed.
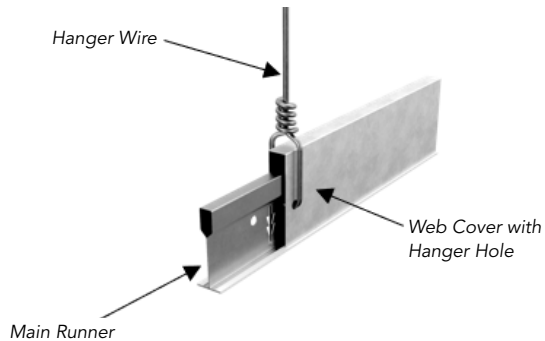
Suspension Layout - 2x2, 2x4

Hanger Wire @ 48" o.c.

Main Runner @ 48" o.c

4' Cross Tees @ 24" o.c.

For 2x2 Layout - Add 2'
Cross Tees @ 48" o.c.

Suspension Layout - 4x4

Hanger Wire @ 48" o.c.

Main Runner @ 48" o.c

4' Cross Tees @ 24" o.c.

2. Web Covers

2.1 Install web covers *with holes* over the top of main runner at hanger locations. Align holes in the web covers with hanger holes in the main runner. Install hanger wires through the holes.

Hanger Wire

Web Cover with Hanger Hole

Main Runner

2.2 Once the grid is installed, install the remaining web covers over the top of the suspension, including the main runner web covers *without holes.*

Web covers for a 2x4 grid module

Main runners require 2' web covers, *with holes* and *without holes.* 4' cross tees require 4' web covers.

Web covers for a 2x2 grid module

Main runners require 2' web covers, *with holes* and *without holes.* 4' cross tees require 2' web covers (one on each side of cross tee intersection), 2' cross tees require 2' web covers.
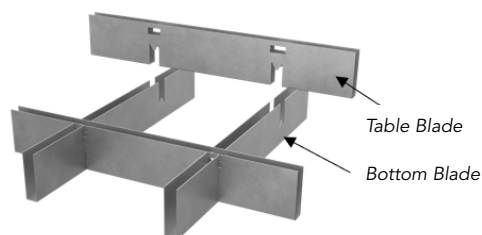
Web covers for a 4x4 grid module

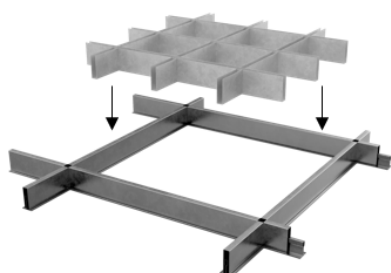Main runners require 4' web covers, *with holes* only. 4' cross tees require 4' web covers *without holes.*

Installed Web Covers

3. Panel Installation

3.1 If unassembled blades are used, build panels by interconnecting top and bottom blades together. Blades include notches that accept opposing parts. Work on a clean flat surface when assembling.

Table Blade

Bottom Blade

3.2 Install assembled panels into the 2'x2', 2'x4', or 4'x4' module created with the grid suspension and web covers.
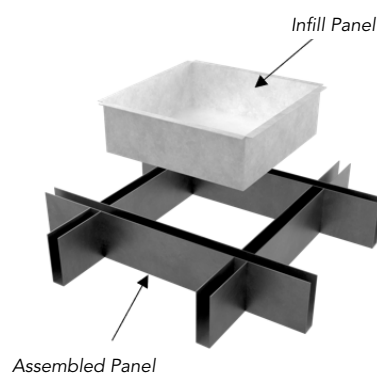

3.3 Cutting Magna T-Cell blades may be required at wall terminations where full size panels cannot be utilized. This can be accomplished using aviation snips.

4. Panel Removal

Plenum access is often required to service HVAC, Plumbing, and Electrical. Push upward on the panel assembly to remove from the grid module.

5. Service Integration

Infill panels can be used for light fixtures, fire sprinklers, speakers, etc. Holes in infill panel can be easily cut with a drill and hole saw. Install a trimmed fixture to hide cut edge of panel. Factory cut holes are also available. Coordinate size of hole required when ordering.

Infill Panel

Assembled Panel

5. 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.
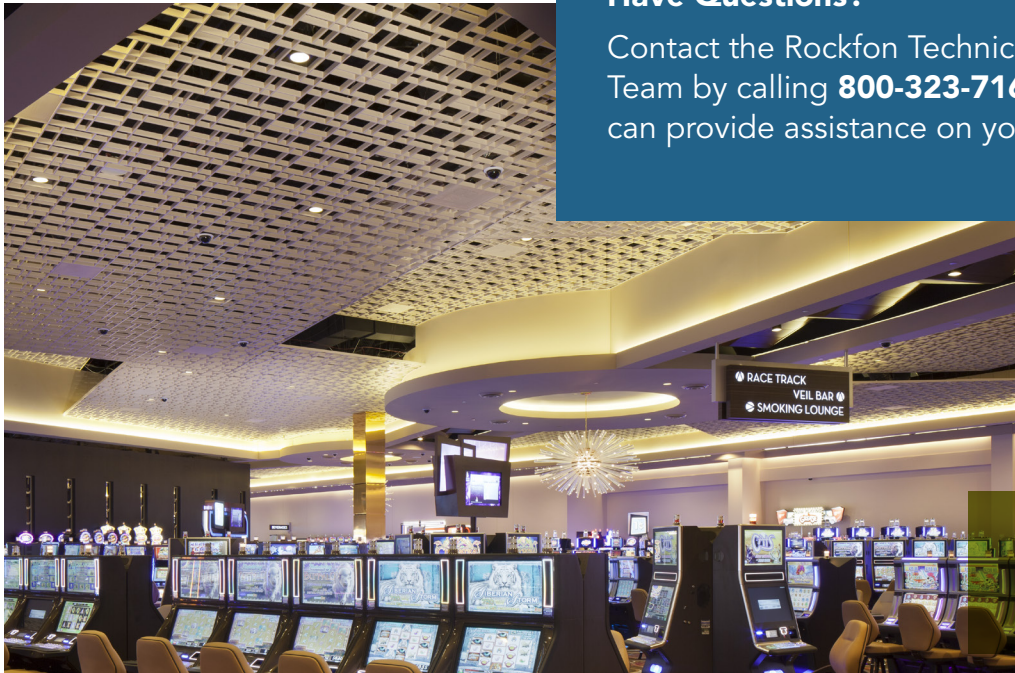
Any excess cleaning solution should be removed immediately so that the solution does not dry and possibly leave a residue. In the event a large area needs to be cleaned, it is advisable to break the area into smaller, more manageable sections, so that adequate time is available to complete each phase 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 cleancomponents 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 data sheet "**How to Clean Painted and 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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