Rockfon®

Part of the ROCKWOOL Group

Rockfon® Planostile™ Snap-in

Panel System

Interior Installation Guide

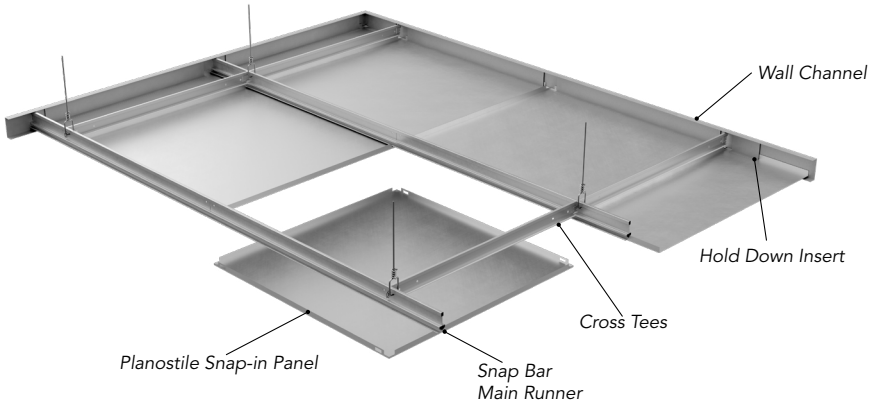
Project – Wichita Advance Learning Library – Wichita, KS
Product – Rockfon® Planostile™ Snap-in

System Overview

Rockfon Planostile Snap-in is a concealed metal panel ceiling system for interior and exterior applications (see separate guide for exterior). The Snap-in metal ceiling panels are manufactured with panel indentations (dimples), designed to snap into a special snap bar main runner. The panels install from below and are not designed to work with 15/16" grid or other exposed grid systems. Standard panel sizes are 24"x24" and 24"x48". Download the Planostile Snap-in Datasheet for finish and perforation options.

Note - This system is suitable for use in seismic design categories A-F (refer to section 5).

Download Planostile Snap-in Datasheet



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
- Customer Service: 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 Planostile Snap-in panels should be installed in a clean environment, free from construction dust and debris.

Handling

Panels come 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 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. For panels larger than 4' 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 (Datasheets, Shop Drawings)

Other Documentation

- **Metal Panels and Planks Brochure**
- **Product Case Study**
- **Product Perforation Options**

Tools Required

- Laser or leveling device
- Circular saw/jigsaw/electric shears
- Bandsaw
- Marking tool (pencil)
- Pliers
- Clean gloves
- Aviation snips
- Tape measure
- Drill
- Screwdriver (Phillips, Flathead)

System Components

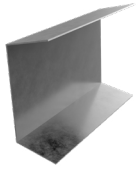
Planostile Snap-in Panel

Snap Bar Main Runner

Cross Tees

Wall Channel

Infinity Trim



Hold Down Insert

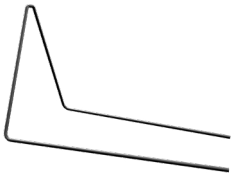
Poly-wrapped Acoustical Pads

Type G Light Fixture Trim Kit

Wall Angle

Panel Removal Tool

Infinity Attachment Clip
(448.9xxx)



Wire Retention Clip

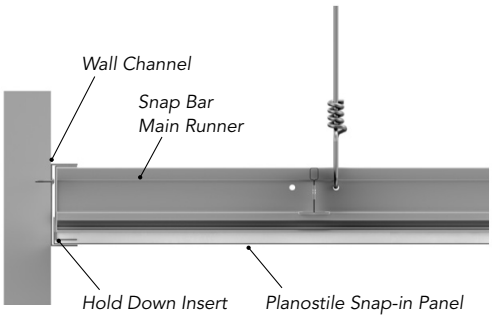
1. Suspension System Installation

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. Unlike lay-in ceiling tiles, concealed panels are more sensitive to a system being out of square. It is recommended that a system be square within 1/16" over an 8' diagonal. Failure to have a square system will create a poor aesthetic appearance 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.

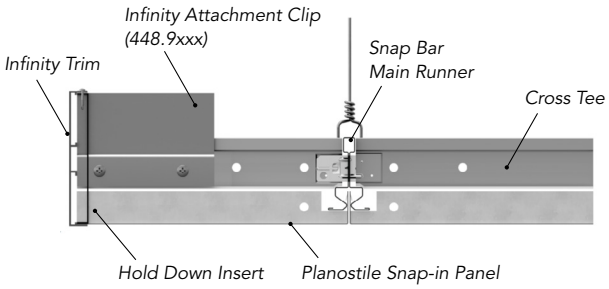
1.1 Secure the specified perimeter treatment (see options below) to the walls using appropriate fasteners. Reference any project documents for proper ceiling elevation. For panels terminating at the walls, 2 1/2"wall channel is the recommended option. If using Rockfon Infinity™ perimeter trim for a floating installation, a min 4" height is recommended with the appropriate Infinity attachment clip to establish the proper height of the Infinity trim.

Perimeter Treatment Options

Panel installations that finish at the wall are trimmed out by wall channel. Floating installations are trimmed out with Infinity extruded aluminum trim.



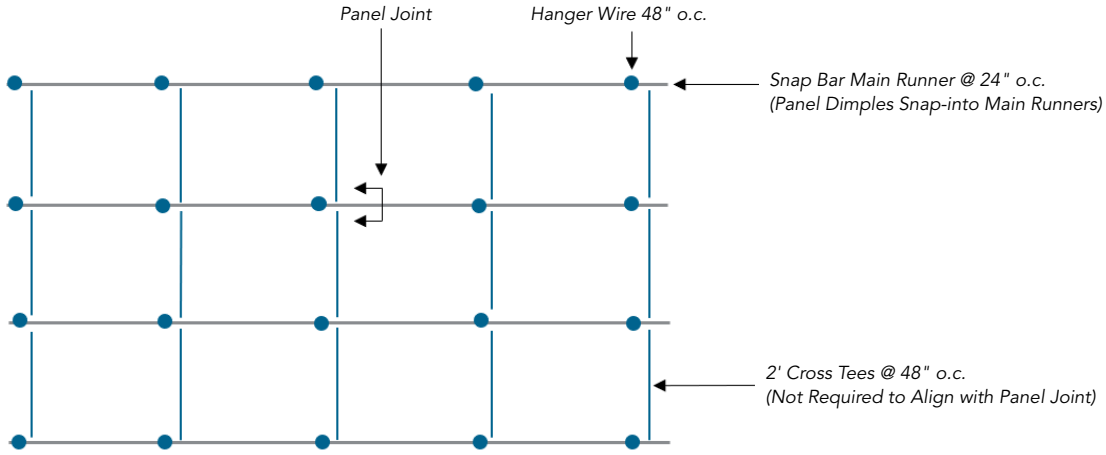
Wall Channel



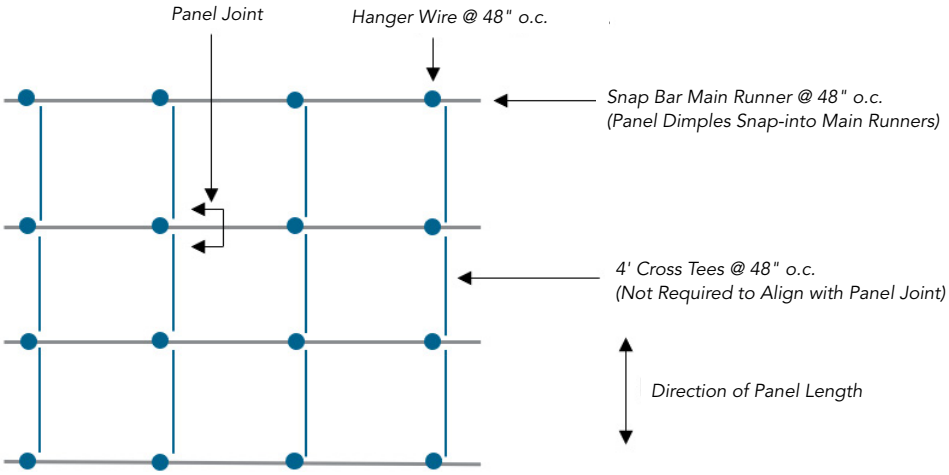
Floating Trim

1.2 The on-center spacing of the special snap bar main runner should equal the length of the panel as the panels snap into the snap bar main runners. Cross tees are installed max 48" on-center and are not required to align with a panel joint. Refer to project drawings for panel layout, if available.

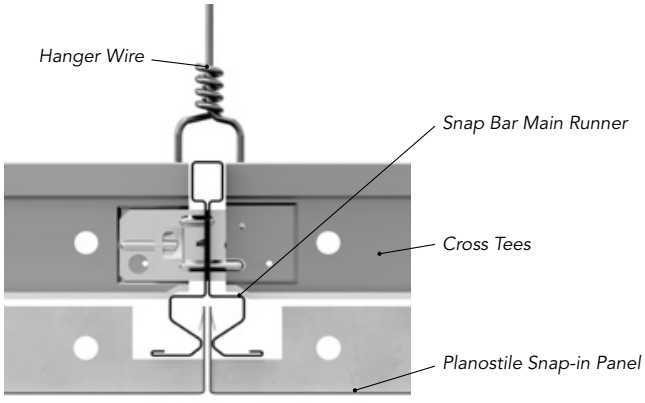
Suspension Layout - 2x2 Panels



Suspension Layout - 2x4 Panels



Cross-section Through Panel Joint/Snap Bar Main Runner

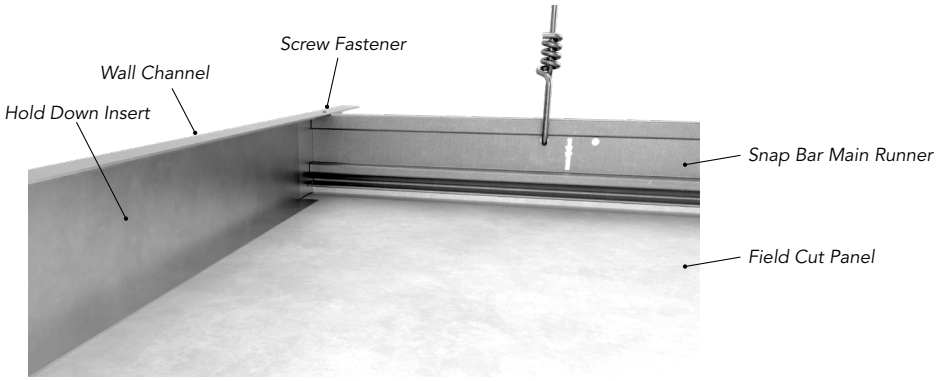


2. Panel Installation

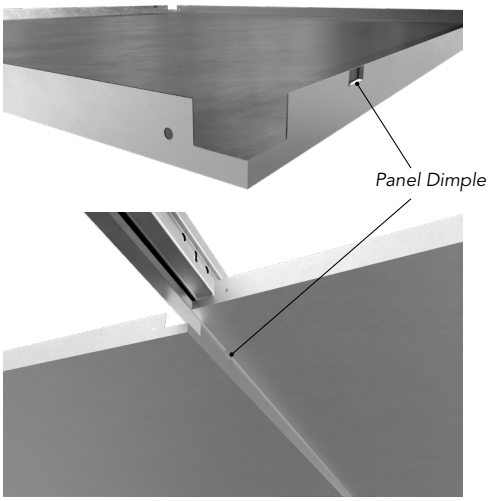
Note - Prior to panel installation, double check squareness of the suspension system. To aid in squareness and alignment, install some field panels prior to cutting in perimeter panels

2.1 Install corner pieces and continue with the remainder of the perimeter panels. For cut panels, determine panel orientation and field cut panels to length.

Use hold down inserts to hold the cut edge of the panels in place along the bottom leg of the channel. Use a minimum of one hold down insert per foot of panel width to maintain uniform contact with trim edge. Once the hold down inserts are installed, the perimeter panels are not accessible until the hold down inserts are removed.



2.2 Continue with the full size field panels. From below, align the panel dimples with the snap bar main runner and push upward until the panels snap into place.



2.3 Cutting metal panels is often required at wall terminations where full size panels cannot be utilized. This is typically performed using a circular saw or table saw with an appropriate high quality metal cutting blade. Use all required personal protective equipment, as well as all appropriate safety precautions. Use properly sized backer material (foam, ceiling panel, wood etc.) inside the panel. Once the blade is at full speed, slowly cut the panel. Be aware, pushing the saw too quickly will result in sharp edges and a poor cut quality.

3. Panel Removal

Plenum access is often required to service HVAC, Plumbing, and Electrical. Panels can be removed with a 3" suction cup or panel removal tool. The plenum is accessible through all panels not restricted by light fixtures, sprinkler heads, etc.

3.1 3" Suction Cup (Solid panels only)

Remove foreign matter from the panel surface. Attach the suction cup to the panel corner, with a firm and gentle force, pull down on the panel.

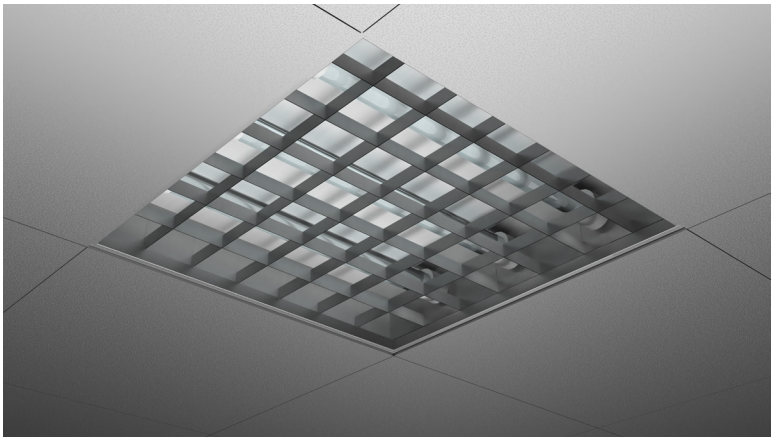
3.2 Removal Tool

Carefully insert the Planostile removal tool between the panel joints and hook on to the panel leg. Pull down on one panel side to disengage the panel from the snap bar main runner. Repeat on the same panel side at the other corner.

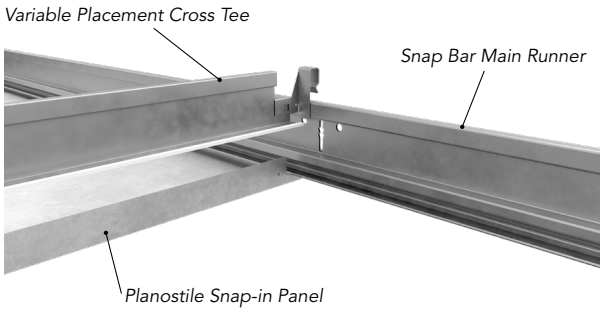
4. Service Integration

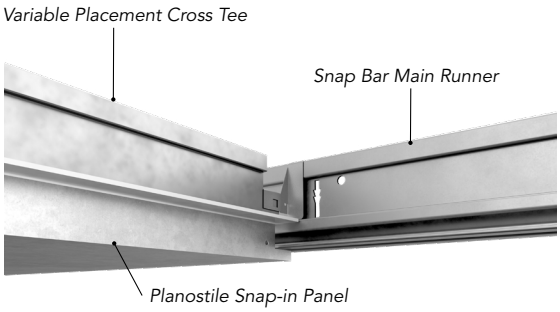
Fire sprinkler, speaker holes, etc., can easily be cut with a drill and hole saw. For standard Type G lay in light fixtures, a trim kit can be used to cover the exposed edge of the panels.

Trim Kit Installation for Type G Lay-in Fixture

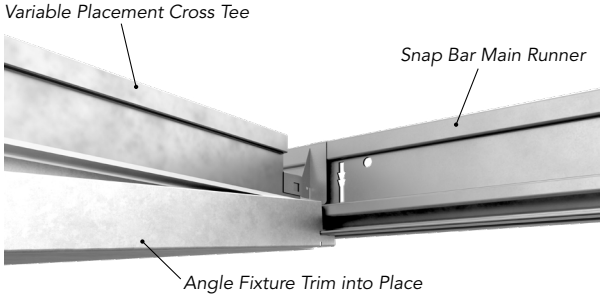


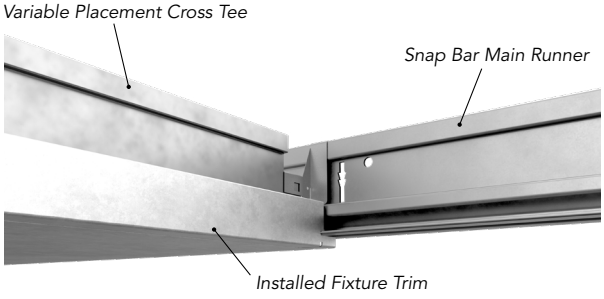
4.1 Once Snap-in panels are in place, with one panel on each side of the proposed lay in light fixture location, install the variable cross tees over the snap bar main runner.



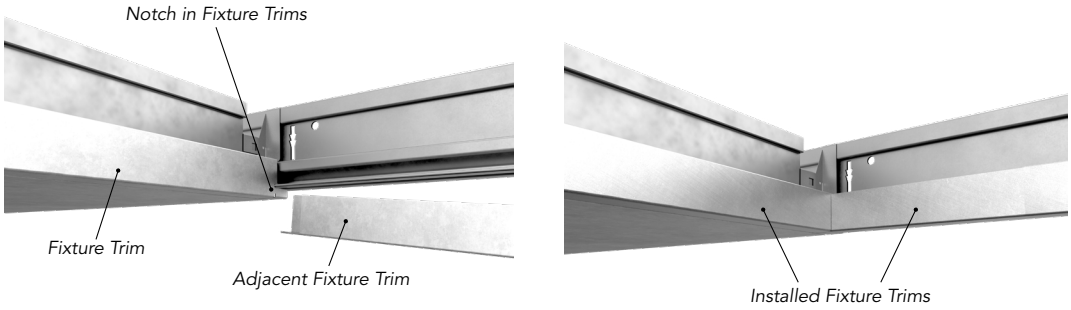


4.2 Install the first trim piece under the variable cross tee, with the taller flange of the trim toward the light fixture opening. Install trim on opposite side.

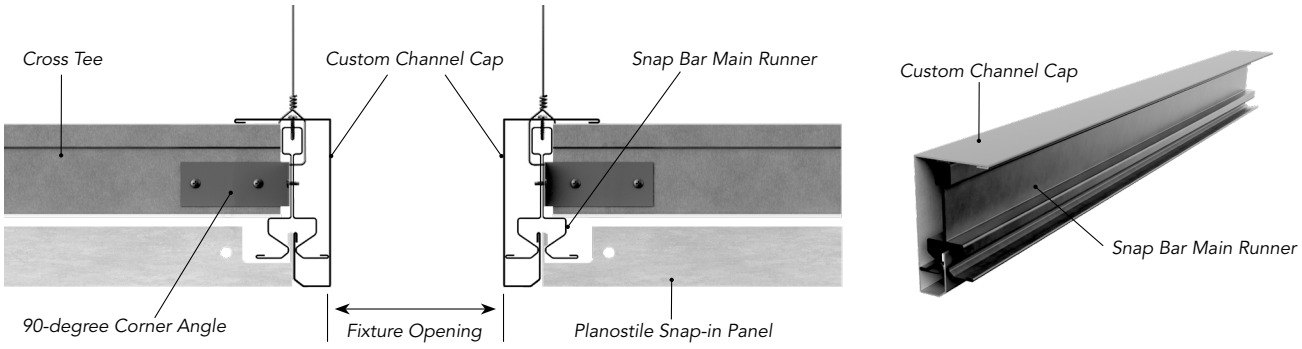




4.3 Next, install the adjacent trim pieces into the snap bar carrier, nesting the trim piece into the slot in the adjacent trim piece. Trim pieces should be flush with each other and slightly above the panels.



4.4 For recessed fixtures, the preferred type for Planostile Snap-in panels are flange style fixtures. These types of fixtures are trimmed and hide the cut edges of the metal panels. Linear, trim-less light fixtures and diffusers can be installed, however, proper planning is required early in the shop drawing/submittal phase of a project. In some cases, custom sized panels and channel caps adjacent to fixtures can be manufactured, however, approved fixture data sheets shall be provided to RFN for incorporation into the project shop drawings for customer approval. Fixtures shall not be installed in line with main runners or cross tees. For longer fixtures that disrupt the suspension, "bridge" the suspension with bridging yokes.



5. Seismic Considerations

Planostile Snap-in is suitable for use in Seismic Design Categories A-C. For Seismic Design Categories DEF some projects may require, wire retention clips may need to be installed depending on the severity of the seismic activity (S_{DS} greater than 1.33). The architect/ engineer of record is responsible for determining the Seismic Design Category and S_{DS} for the projects specific geographic location.

6. 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.

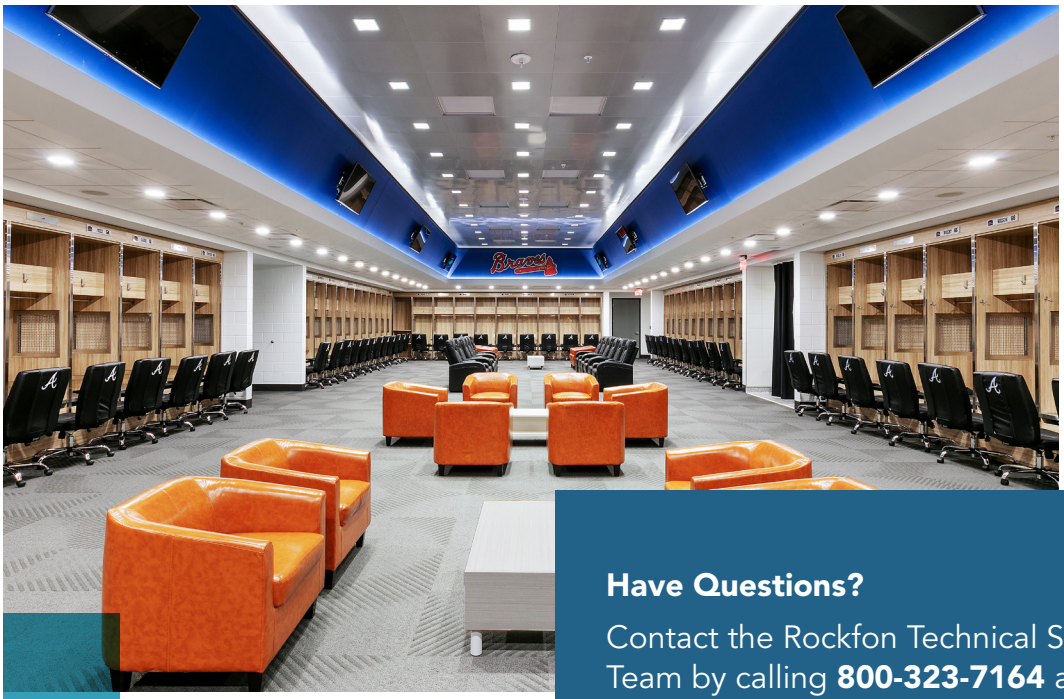
Once an appropriate cleaning solution has been selected, care should be taken to use only the amount which is necessary. Do not soak the ceiling components with the solution.

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 data sheet "**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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