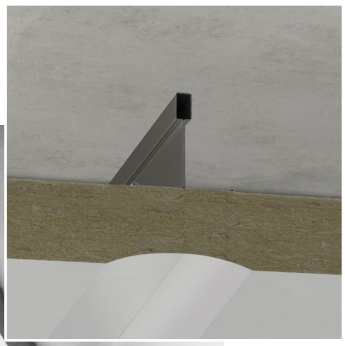
Rockfon®

Part of ROCKWOOL Group

Rockfon® Mono Acoustic™ Installation Guide



Rockfon ceiling tiles are manufactured using advanced stone wool technology. All stone wool tiles benefit from:

High Acoustic Absorption

Fire Performance - Class A

Moisture and Sag Resistance

Smooth, Modern Aesthetics

Table of Contents

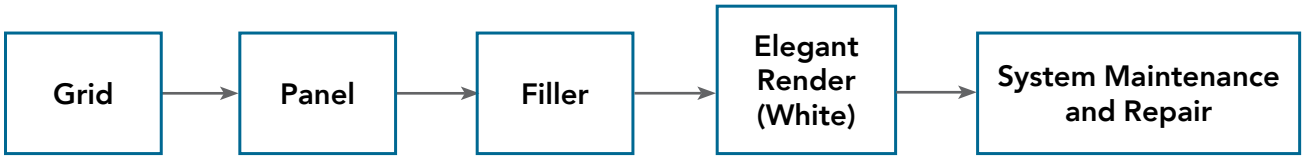
Introduction

The System Description for Rockfon System Mono Acoustic is a handy tool to guide you through the different stages of the installation.

To assist you, we have grouped the installation process into several sections. In the system overview, you will find helpful information about Rockfon Mono Acoustic generally, including important technical information, system components, recommendations and answers to frequently asked questions.

The main section of the system description is separated into five main segments: grid installation, panel installation, application of filler and render application, as well as a repair section.

Rockfon Mono Acoustic ceilings should only be installed, maintained and repaired by certified Rockfon Mono Acoustic Installers. (Please contact Rockfon customer service for contact details of your nearest certified installer or visit us at www.rockfon.com).



System Overview

Description

Rockfon® Mono® Acoustic is an aesthetically pleasing seamless ceiling offering excellent sound absorption properties (up to NRC 0.95). We offer three different Rockfon Mono Acoustic ceiling panels for different installation purposes:

- Rockfon Mono Acoustic TE
- Rockfon Mono Acoustic TE Direct
- Rockfon Mono Acoustic TE Flecto

Rockfon Mono Acoustic TE installs onto Chicago Metallic™ drywall suspension. Rockfon Mono Acoustic TE Direct is meant only for installation directly underneath an existing ceiling or against the soffit. Rockfon Mono Acoustic TE Flecto is developed for vaulted installation (convex or concave).

Once installed, all the components form a seamless ceiling.

With the exception of the fastening screws and adhesive, all products are made specifically for Rockfon Mono Acoustic. Installers must use only the items described herein. The installation must be completed in accordance with the Rockfon Mono Acoustic installation guidelines. To conserve the fire and acoustical properties of Rockfon Mono Acoustic, this system should only be installed by a certified Rockfon Mono Acoustic installer.

Installation Order

1. Installing the Chicago Metallic drywall suspension system.
2. Installing Rockfon Mono Acoustic panels.
3. Installing Rockfon Mono Acoustic joint filler and acoustic tape.
4. Sanding the joints.
5. Protective masking of the room: walls, floors as well as furniture.
6. Spraying the Rockfon Mono Acoustic Elegant Render (White).

RECOMMENDATIONS

The use of a fan convector unit, ventilator and dehumidifier is recommended if the natural conditions of the site do not provide suitable temperatures and humidity levels. The use of these devices allows the drying time to be significantly reduced.

AVOID

We advise against using a hot air blower that is too powerful. It produces excessive heat and could result in rapid drying, causing cracking. This type of device may only be used within a safe distance from the Rockfon Mono Acoustic ceiling, as the goal is to heat the air rather than the ceiling directly.

ATTENTION

Rockfon Mono Acoustic should not be used where an air pressure difference is created between the front and backside of the Rockfon Mono Acoustic ceiling.

ATTENTION

In swimming halls, we advise to install the system in the following way:

- The suspension system used should be corrosion resistant.
- Ventilation in the swimming hall and the plenum should be optimal to avoid condensation issues. We recommend that you do not install Rockfon Mono Acoustic completely against the wall. Leave an opening so that the air can circulate in the room/plenum. We recommend that you create a similar climate (temperature and humidity) in the room and plenum.
- The ceiling should be at a certain height in order to avoid water splashing against the ceiling (this may lead to spots on the Rockfon Mono Acoustic surface).
- To properly use Rockfon Mono Acoustic in a swimming hall, please contact your local Rockfon technical support.

Technical Data

Suspension Depth		
Module Size (mm)	Panel Thickness	Minimum System Depth
1800 x 1200	40mm	90mm with 50mm Plenum
900 x 1200		40mm with Direct Installation

System Weight per m² (40mm Thick Tiles)		
Panel	Direct Installation	Installation in a Grid System (200 mm Plenum)
6.0 kg	7.5 kg	8.5 kg

System Load-Bearing Capacity	
Maximum Evenly-Distributed Load Capacity	Maximum Point Load Capacity
2.0 kg/m²	1.5 kg

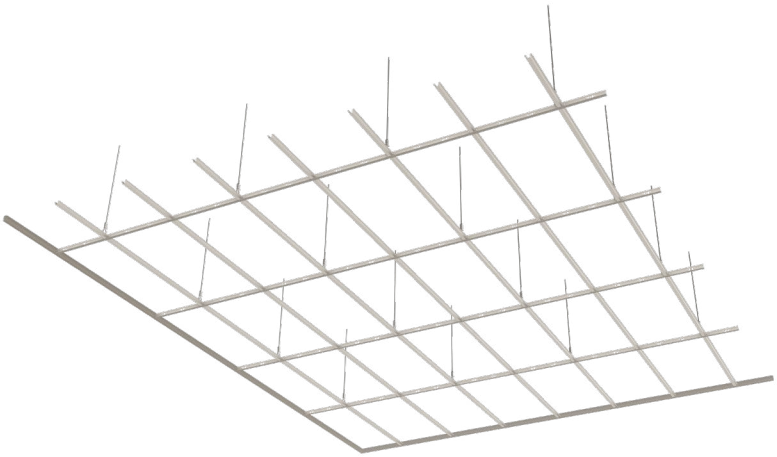
When the system is installed to bear a load, we recommend fixing the panel with two screws in the middle instead of one (point load 0.25 kg><1.5 kg) or with two screws + reinforcement profile (max point load 1.5 kg or max evenly distributed load 2 kg/m²).

Mono Acoustic TE Suspension Components

The suspension system we recommend is the Chicago Metallic™ drywall grid. Other alternative grid systems may be appropriate. Consult with Rockfon Customer Service to discuss suitability.

Chicago Metallic Monolithic Grid

This grid system has a T-shaped main runner and a "furring channel" with a 35mm wide face. The main runner slot distance is 200mm on center.



RECOMMENDATIONS

A perimeter trim installed around the room will enhance the stability and rigidity of the ceiling.

To fix the furring channel in the perimeter trim we recommend using the wall spring clip.

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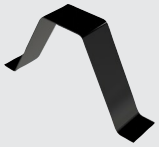


Room and Building Conditions Before Installation

Before installing a Rockfon® Mono® Acoustic ceiling, it is vital that you always check room and building conditions. Failing to check conditions before installing can lead to undesirable outcomes in the months and years after installation.

Things to Check

Firstly, we need to check whether the ceiling of the room itself is airtight, and confirm that ventilation pipes are free from cracks.

Secondly, we want to check that there aren't any holes between the room and adjacent rooms.

Thirdly, we should confirm with the building owner that the room will not contain obvious sources of air pollution, such as candles, and that the building will be maintained at a stable temperature.

It's important to note that Rockfon Mono Acoustic is not compatible with "Plenum Suction Ventilation Systems" that draw up large volumes of air from the room into the plenum, creating large pressure differences. Ducted plenum air return systems that maintain a balanced air pressure between the plenum and the room are preferred.

Before installing we should also ensure the room is not heavily polluted with construction dust and dirt — this is particularly important for the final stages of installation, when the render is applied.

During installation, room temperature should be between 5 – 40°C (best result is obtained between 18 – 20°C) and relative humidity preferably 40 – 60%, maximum 80%.

Once satisfied that the building conditions meet the requirements for Rockfon Mono Acoustic, you should feel confident to begin installing — transforming the room and its acoustic comfort.

Checklist

- ✓ Airtight ceiling
- ✓ No cracks in ventilation pipes
- ✓ No holes to adjacent rooms
- ✓ No obvious sources of air pollution
- ✓ Building maintained at stable temperature
- ✓ No plenum suction ventilation system
- ✓ No construction dust and dirt
- ✓ Temperature 5 – 40°C
- ✓ Relative humidity 40 – 60%

Job Site Conditions During Installation

Temperature and Humidity

The drying time of our products depends heavily on jobsite conditions. Temperature should be between 5 – 40°C (best result is obtained between 18 – 20°C) and relative humidity preferably 40 – 60%, maximum 80%.

Indicative drying times of the products in different conditions are communicated in this document. Good air circulation, use of a fan heater or a dehumidifier ensures faster drying process.

Handling

For an optimized work environment, we recommend installers always observe common work practices and follow the installation advise as shown on our packaging. It is recommended to use clean nitrile or PU coated gloves when mounting Rockfon Mono Acoustic panels in order to avoid finger prints and pollution of the surface.

Planning

Rockfon Mono Acoustic is a finished ceiling. No paint or other treatment should be added after spraying the Rockfon Mono Acoustic Elegant Render. It is important to avoid producing dust during and after the installation of the ceiling. The monolithic nature of the ceiling means it is non-demountable, so careful sequencing of the construction work is essential along with the installation of hatches, if access is required.

Coordinate with the construction management and other trades to ensure that the installation of related fixtures within the ceiling is completed prior to the spray applied Mono Acoustic Elegant Render finish.

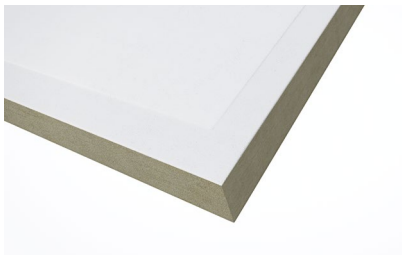
Incident Light

It is recommended to avoid incident/side light on suspended ceilings. Extreme floodlight might cause visible joints.

Installing of Ceiling Panels

Panels

Rockfon® Mono® Acoustic TE panels are made from high-density stone wool. They are finished with a white fleece on the visible side and a high performance membrane on the rear side. Rockfon Mono Acoustic panels have tapered edges on all four sides, which allows for optimum jointing.



Rockfon Mono Acoustic TE Direct panels are made from high-density stone wool and are also finished with a white fleece on the visible side. The rear side is not produced with a high performance membrane, since the panel is adhered directly to the soffit. This panel may under no circumstances be used for suspended solutions! Rockfon Mono Acoustic panels have tapered edges on all four sides which allows for optimum jointing.

Rockfon Mono Acoustic TE Flecto panels are made of high-density stone wool. They are finished with a white fleece on the visible side and a high performance membrane on the rear side. The panel has tapered edges on all four sides for optimal jointing and the backside has grooves that allow for vaulted (convex or concave) installation.

Intersection Bracket

The intersection bracket allows for the installation of panels to the Chicago Metallic® drywall grid at the intersection of Rockfon Mono Acoustic panels. It is designed in such a way that it can be pushed into the panel (four small teeth), providing that the installer has their hands free to screw fix the panel.

Fastening Washers and Screws

Combined with standard screws (55mm), the washer allows for the installation of panels to our grid on the perimeter and in the middle of the tiles. The fastening washers increase the bearing surface of the screw head. Their specially designed bowl shape allows the screw heads to be recessed into the panel.

Rockfon Mono Acoustic Tape

The 40mm wide tape is specially designed to ensure strong, optimal joints between the Rockfon Mono Acoustic panels.

AVOID

With the exception of the standard 55mm long screws, all other accessories are specially developed for good quality installations and acoustic result. We prohibit the use of accessories other than those sold for that purpose.

ATTENTION

The joint filler and render must be stored at a temperature above 0°C. If kept in their original unopened packaging, they have a shelf life of 18 months.

Rockfon Mono Acoustic TE Flecto panels should be handled with extra care. Due to the grooves on the backside of the tiles, they are more difficult to handle than standard Rockfon Mono Acoustic panels.

Rockfon® Mono® Acoustic Powder Filler

To ensure a proper taping with little shrinkage and color blending, we recommend the use of our Powder Filler in combination with the Rockfon Mono Acoustic Tape as the first layer. The Powder Filler is available in a 15 kg bag.

Rockfon Mono Acoustic Elegant Render (White)

An aesthetically pleasing refined ceiling surface structure can be obtained when using this render in combination with a special spraying technique. The Rockfon Mono Acoustic Elegant Render is available in 15 kg tubs.

System Components and Consumption Guide per Square Meter

Rockfon Mono Acoustic Elegant Render in Combination with Powder Filler

Module Size (mm)	Rockfon Mono Acoustic Panels (pcs)	Round Washer (250 pcs/box)	Intersection Bracket (150 pcs/box)	Rockfon Mono Acoustic Tape (r40/150 lm)	Rockfon Mono Acoustic Powder Filler (15 kg/tub)	Rockfon Mono Acoustic Elegant Render (15 kg/tub)
1800 x 1200	0.46	0.92	4.17	1.4	0.75 kg	White 0.8 – 1.0 kg
900 x 1200	0.93	0	0	1.9	0.60 kg	

In critical light conditions higher consumption may be required.

Rockfon® Mono® Acoustic Inspection Hatches

To provide access to the plenum, we have developed three standard inspection hatches.

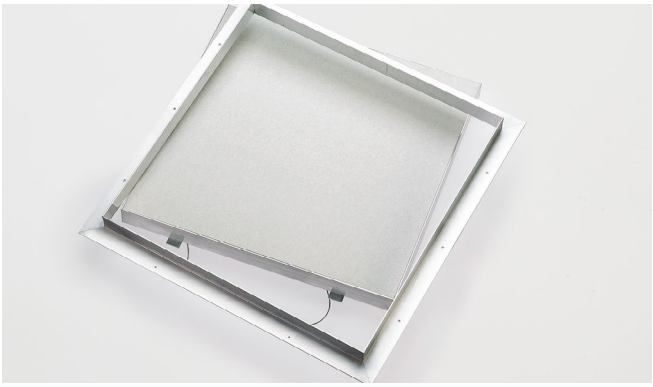
Two sizes of square hatches are available. They are made out of an aluminum frame and come integrated with a Rockfon Mono Acoustic panel that can be painted, offering visual consistency in the ceiling.

Dimensions of the square hatches:
400mm x 400mm/600mm x 600mm

We also offer a round white pre-coated metal hatch which can be installed and sprayed with the render or kept in its original state.

Dimension of the round hatch: Ø700mm

Consult with your local technical support in order to get more information about our Rockfon Mono Acoustic inspection hatches.



This hatch requires a void space of 10cm. To open, lift the entire hatch 5 cm and slide it (above the grid) a few centimeters to the side, then rotate the opposite side of the hatch downwards.

This hatch requires no void space. To open, lift the entire hatch 1cm and rotate.

Rockfon® Mono Acoustic TE Flecto

Rockfon Mono Acoustic Flecto ceiling panels allow for installation to concave or convex surfaces with a radius of 1500mm minimum. A Rockfon Mono Acoustic Flecto TE ceiling should be fitted to a curved solid structure.

The “shell” serves as a support for the fastening screws and the Rockfon Mono Acoustic Flecto panels.

We do not recommend using timber panels for supporting the structures or the shells.

System Installation

Tools Required

- Meter rule
- Utility knife
- Pencil
- Laser
- Drill
- Power screwdriver
- Worksite light
- Scaffolding
- Scissors

Installation Guideline

The installer must consider the dimensions of the room, the presence of service elements to be integrated (lights, air-conditioning, etc.) and arrange the ceiling so there are no whole panels against the walls.

Regardless of the grid system, the installer should always install a perimeter trim. This component should be fastened to all vertical junctions with the ceiling such as walls, partitions, columns, upstands, etc. A perimeter trim installed around the room enhances the stability and rigidity of the ceiling.

All fitting elements involving a space reservation in the ceiling, such as ventilation grating, lighting apparatus or an access hatch, need a crosshead. To install the crosshead, the installer should choose the profile most appropriate to the situation: Cross channel, main runner or the C-shaped channel.

ATTENTION

The Rockfon® Mono® Acoustic system can at maximum bear the direct load of service elements (HVAC, Lighting, etc.) as described on page 4 of this installation guide.

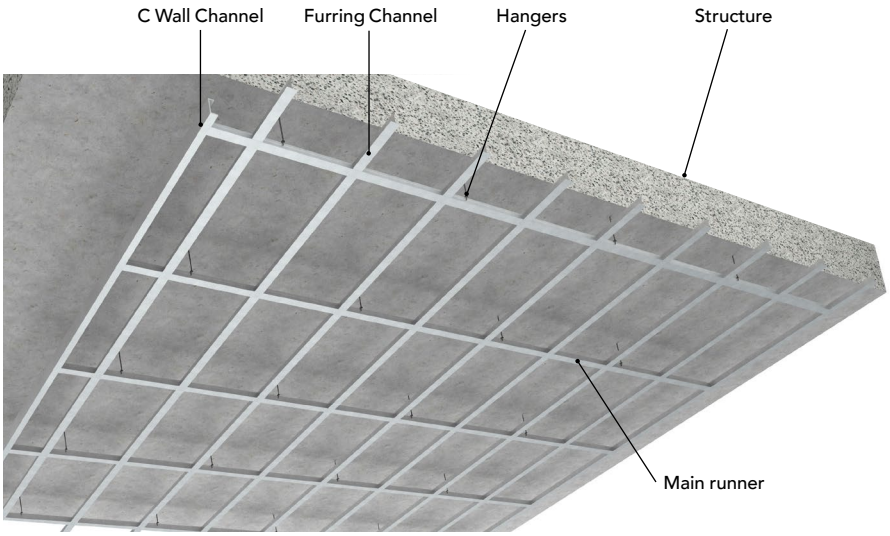
RECOMMENDATIONS

For grid installation, we recommend the use of suitable scaffolding and additional lighting apparatus under all circumstances.

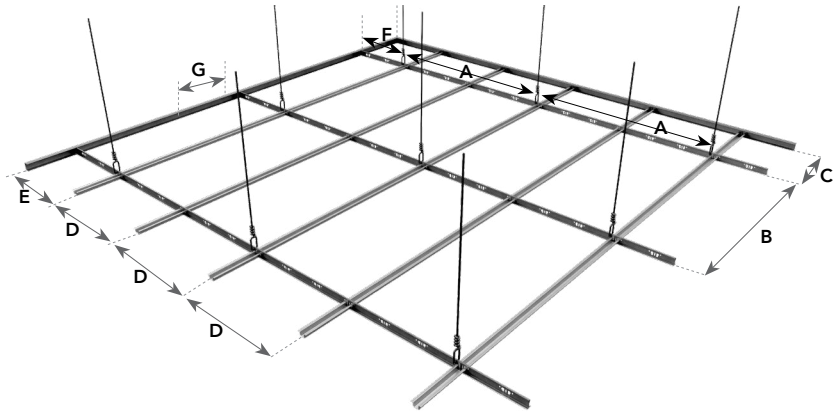
We also recommend the use of a laser level for optimal results.

Chicago Metallic™ Drywall Suspension in Module 1200mm x 600mm

For Rockfon Mono Acoustic TE 1800mm x 1200mm Panels



- Main runners with a slot distance of 200mm positioned with 1200mm centers.
- Furring cross channels should be installed every 600mm between main runners.
- Perimeter trims fixed to the vertical surfaces (walls, columns, etc.) should be attached every 400mm.
- Hangers should be installed every 1200mm along the main runners.



Distance Overview		(mm)
A	Hanger distance	1200
B	Main runner distance	1200
C	Min. distance to the first main runner	Min. 400
D	Distance between cross furring channels	600
E	Min. distance to the first cross tee	Min. 400
F	Max. distance to the first hanger	Max. 400
G	Distance between fixing points perimeter tim	Max. 400

RECOMMENDATIONS

During and after grid installation, it is recommended that the flatness and the level of the grid be checked. In a 1200mm x 600mm installation, it is recommended that the angles between the main runners and cross furring channels also be checked for squareness. This can be easily done by comparing the measurements of the two diagonals.

ATTENTION

The maximum surface flatness tolerance is 2mm over one meter and 5mm over five meters. This tolerance is valid for all directions.

When used for large dimension ceilings, Rockfon Mono Acoustic must be installed with a movement joint. Movement joints in a Rockfon Mono Acoustic ceiling must align with the movement joints in the building.

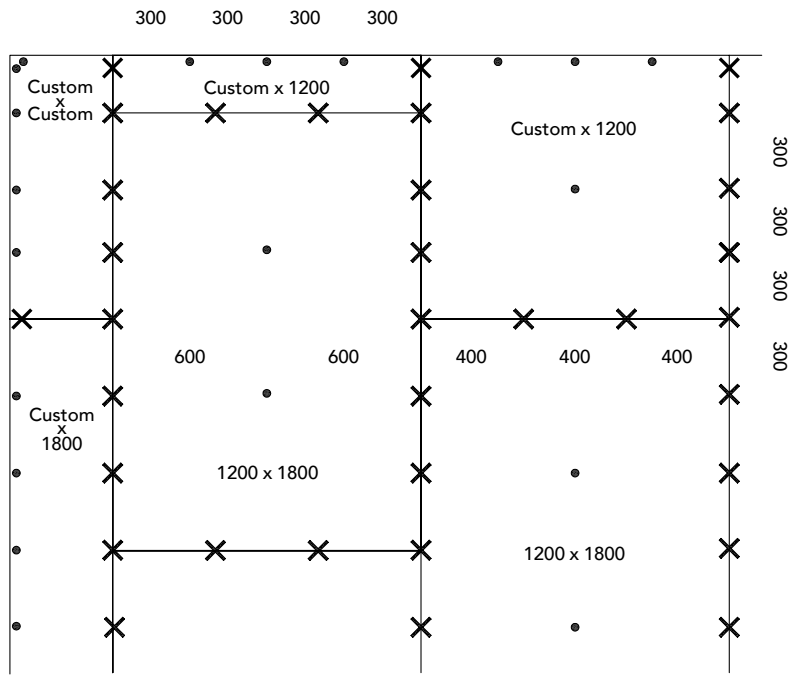
Installing 1800mm x 1200mm Rockfon Mono Acoustic TE Panels

Installation Guide

- Each Rockfon® Mono® Acoustic panel is fastened with a plasterboard screw (length 55mm) combined with a washer or an intersection bracket.
- The round washers are used to fix the panels at the center and at the perimeter trim. The spacing between the round washers is 300mm.
- The intersection brackets are fastened at the intersection of the panels. The spacing between the intersection brackets is 300mm (along the main runner) and 400mm (along the cross tees) as shown in the drawing below.
- A minimum of one round washer connection should be placed at the center of each panel. If the system is bearing a load, according to the maximum capacities as displayed on page 4 of this guide, we recommend that you place an extra round washer at the center of the panel.

Cutting and Fastening at Perimeters

- The edge cuts must be no more than 2mm shorter than the actual dimension in order to guarantee an optimum perimeter finish.
- The fastening of panels is done with the round washers with a maximum spacing as described above.



● Washer
Rockfon Mono Intersection Bracket

RECOMMENDATIONS

We recommend a staggered installation of the panels.

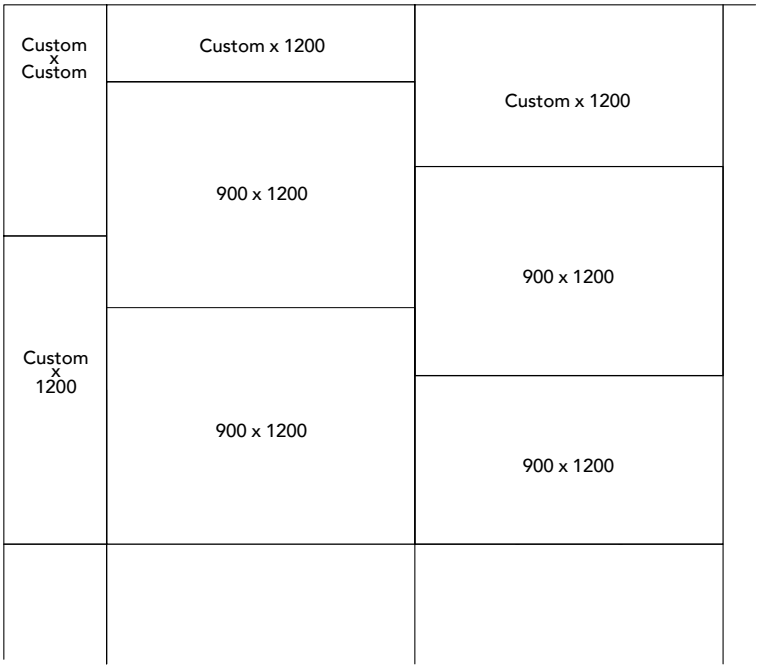
ATTENTION

During and after installation of the panels, it is recommended that the surface level and flatness of the ceiling be checked. The maximum tolerance is 2mm over one meter and 5mm over five meters. This tolerance is valid for all directions.

If an edge cut is too long, the installer will have to force the panel in, which can result in damage to the fleece. Conversely, if an edge cut is too short it can leave a gap that is too large to guarantee an optimum and quick finish during installation of the acrylic filler.

When installing the fasteners, it is recommended that they be controlled. If they are screwed in too deep, the panels will deform resulting in surface flatness problems and excess use of filler and reduction in sound absorption properties.

Installing 900mm x 1200mm Mono Acoustic TE Direct Panels



QUESTION

Can Rockfon Mono Acoustic TE Direct panels be installed by gluing the panels directly against the concrete soffit/plasterboard?

Yes, this is possible!

Ceiling panel adhesive such as Titebond® GREENchoice can be used to glue Rockfon Mono Acoustic Direct panels onto the soffit. The substrate needs to be clean, dry, homogeneous and 100% even. The substrate needs to be able to bear the load.

Adhesive should be evenly distributed on the backside of the Rockfon Mono Acoustic Direct panel and should cover approximately 100% of the total panel surface.

For more information on gluing Rockfon Mono Acoustic Direct panels, contact your local Rockfon customer service.

Rockfon Mono Acoustic Joint Filler and Acoustic Tape

Tools Required

- Soft finishing knife (160mm)
- Mixer
- Soft finishing knife (240mm)
- Soft finishing knife (350mm)
- Ventilaton
- Dehumidifier (optional)
- Scaffolding
- Light
- Fan convector unit (optional)

Lay a thin layer of Powder Filler on the joints and fasteners (use 160mm wide knife).

While the Filler is still wet, position the tape on the joints.

Load the thinned edge with Powder Filler.

Sand joint down manually.

Once the first coat is dry, apply a layer of Ready-Mix Filler (use a 240mm wide knife).

RECOMMENDATIONS

For the finishing phase, we recommend the use of suitable scaffolding and additional lighting apparatus in all circumstances. A scaffolding platform adjusted to the correct height and appropriate lighting will be more comfortable for the installer and result in faster, quality installation of the joints. We recommend mixing the filler before use. This ensures homogeneity and achieves a smoother application with the finishing knife. Powder Filler needs to be mixed with 1.6 l of water for every 3 kg powder.

ATTENTION

Keep the specific design/layout of the project in mind when calculating the amount to be used. During this phase, it is recommended that the amount of filler applied is carefully checked to guarantee evenness of the joint after drying. The second coat of filler can only be done when the first coat is completely dry. Non-compliance with this will result in serious defects in the quality of the joint. Tape that is not properly stuck or pressed into the joint can result in serious joint quality defects.

Consumption

The total filler consumption is max. 550 gr Powder Filler per m² and max. 350 gr filler per m². The maximum width of the filler is 200mm. The presence of downstands, light troughs, floating edges (island zone) or an unusual room shape may result in additional consumption. For example, the treatment of a plasterboard bulkhead connected to a Rockfon Mono Acoustic ceiling using reinforced tape leads to additional consumption of the joint finish by approximately 1.0 kg per linear meter of level change.

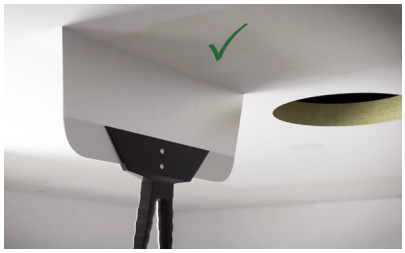
Drying Time

The drying time of our filler products depends heavily on the jobsite conditions. Temperature should be between 5 – 40°C and relative humidity preferably 40 – 60%, maximum 80%. Indicative drying times of our fillers in different conditions are indicated in the tables below. Good air circulation, the use of a fan heater or a dehumidifier ensures a faster drying process.

Indicative Drying Time of Rockfon Mono Acoustic Powder Filler in Hours		Relative Humidity (%)		
		50	60	75
Temperature (°C)	10	10.5	14	20
	20	8	10	15
	30	5.5	7	12

Joint Check

- Light up the area to check. Position a high-power lamp in front of the ceiling area to be checked.
- Position the finishing knife. It must be a perfectly clean 350mm knife, and should be placed vertically under the sanded joints.



Negative Result

The presence of a beam of light will indicate a lack of quality on the joint. This will need to be rectified in order to attain the quality expected of a joint.

Positive Result

The absence of a beam of light indicates perfect evenness of the joint. It is ready to be sanded.

QUESTION

Is it possible to correct a joint defect if the ceiling is finished?

Yes!

It is always possible to correct it but the work is more difficult. It is much easier to correct a joint before spraying the finishing coat.

ATTENTION

A clean 350mm finishing knife and a high-power lamp are required in order to adequately check the quality of the joints.

In order to check the quality of a joint, a knife (350mm wide) must be used to show surface level and flatness defects or bumps. Follow the checking instructions shown below.

Sanding

Tools Required

- FFP3 Protective mask
- Safety goggles
- Scaffolding
- Sanding handle (230mm x 110mm)
- Sandpaper (120 grain)
- Site light
- Long-neck sander with rigid flat surface
- Connected vacuuming system

Sanding Techniques

To guarantee quality sanding, the installer must use the long-neck sander for large surfaces. The sanding block with handle are reserved for perimeter sanding work and for small retouches. Always sand in circles when using the sanding block. The chosen sandpaper must have 120 grade grit.

Repeat Joint Check

A final joint check is highly recommended before applying the final render. Although it is always possible to correct unevenness, the work is more difficult once the render has been applied.

RECOMMENDATIONS

For the sanding phase, we recommend the use of suitable scaffolding and additional lighting apparatus in all circumstances. A scaffolding platform adjusted to the correct height and appropriate lighting will be more comfortable for the installer and facilitate faster, better quality sanding.

It is strongly recommended to connect the long-reach sander to a dedicated vacuum system to provide maximum cleanliness and offer maximum protection.

ATTENTION

We recommend the use of a long-reach sander equipped with a rigid sanding platform (ref. no. 495 168) such as FESTOOL PLANEX LHS 225 EQ-PLUS or equivalent.

Perimeter Finish and Site Masking

Tools Required

- Adhesive masking tape
- Protection film (e.g. polyethylene)
- Site light
- Sealant pump gun
- Acrylic sealant cartridge
- Scaffolding

Vertical Protection Installation

RECOMMENDATIONS

The necessity of masking will depend on the site progress. It is needed to protect the floor, walls and any furniture at the jobsite.

ATTENTION

The placement of the adhesive masking tape determines the quality of the edge finish during the spray phase. If it is set too low, the installer risks spraying the wall. If it is set too high, the ceiling will not be completely protected.

The protective plastic that shields the wall should cover from the ceiling to the floor.

AVOID

Never use silicone. These particular joints cannot be painted and prevent a perfect finish during the application of the render.

The acrylic sealant must be dry before applying the render.

Rockfon Mono Acoustic Elegant Render (White)

Tools Required

- FFP3 Protective mask
- Safety goggles
- Mixer
- Rotating blade for mixing the render
- Spray machine for high debit airless spraying (type Wagner PS3.39 or Graco Mark V)
- Nozzle 635
- Hose 15m1 DN10 + 2.5/3m1 DN6

ATTENTION

The only method of checking the render consumption is to count the buckets used as spraying progresses.

This simple and efficient operation can become complex on large surfaces, hence dividing the room into sections is recommended. For example, by dividing a 180m² ceiling into three 60m² sections, the theoretical consumption indicates a spray of 54 kg per section, or approximately 3.5 buckets. As the spray is done in three coats, it is recommended that a little more than one bucket be sprayed per coat and per 60m² section.

Take into account the specific layout/ design of the project and the length of the hose for the calculation.

Severe dirt marks can be made lighter by sanding it with a tile piece (front-side against front-side) or using sand paper with fine grain (at least 220).

Indicative Drying Time in Hours		Relative Humidity (%)		
		50	60	75
Temperature (°C)	10	3.5	4.0	5.0
	20	2.5	3.0	4.0
	30	2.0	2.5	3.5

Consumption

The material consumption is approx. 300 gr/m² including crossing resulting in a consumption per m² of approx. 0.8 – 1.0 kg.

It is possible to apply the Elegant Render on surfaces other than the Rockfon Mono Acoustic itself, such as plasterboard and Rockfon Infinity D perimeter trim. However, once treated, these surfaces will not offer any acoustic benefit, but will provide the same finish and give a homogenous appearance.

Stirring of Rockfon Mono Acoustic Elegand Render

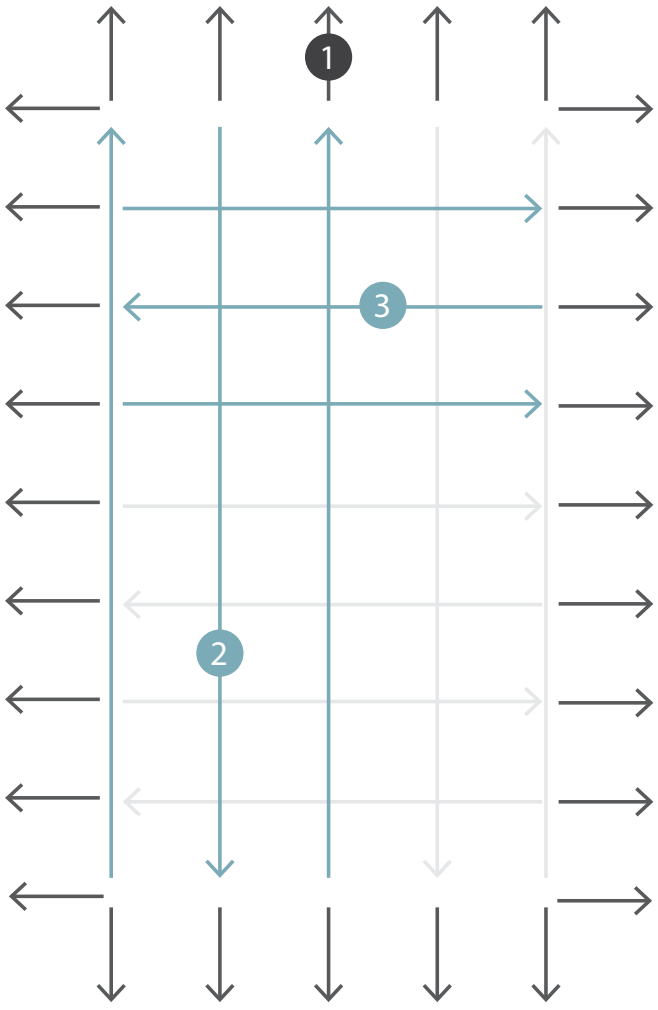
Stir up the Rockfon Mono Acoustic Elegant Render in the tub and don't add any water. The product is ready to use.

Drying Time

The drying time of our render depends heavily on the jobsite conditions. Temperature should be between 5 – 40°C and relative humidity preferably 40 – 60%. Indicative drying times of the Elegant Render in different conditions are indicated in the table below. Good air circulation and use of a fan heater or a dehumidifier ensures faster drying process.

Spraying

- The spray head should be perpendicular to the ceiling at a distance of approximately 1.0–1.2m from the ceiling.
- The Elegant Render must be applied in 3 layers of 0.3 kg/m2 with intermediate drying times.
- One layer consists of two thin layers applied crosswise (first horizontal, then vertical or vice versa) and a spraying technique which is common for applying with an airless machine. In between the crossing a few minutes of drying time is needed.
- Apply the render onto the ceiling in linear movements.



RECOMMENDATIONS

We recommend the use of a high debit spray machine such as Wagner PS3.39 or Graco Mark V but it is also possible to use equivalent machines. Please contact your local technical support for more info on the specifications of the machinery.

When installing Rockfon Mono Acoustic at a height over 4m, a spray gun extension or a scaffolding platform adjusted to the correct height and appropriate lighting will be more comfortable for the installer and facilitate a faster, quality spray finish.

If the surface to be sprayed is large, it is recommended that it be divided into sections in order to control the render consumption. The presence of columns, windows or beams can help with this division.

System Maintenance and Repair

Servicing

Rockfon® Mono® Acoustic requires only minor maintenance, and the amount will depend on the use of the room in which it is installed.

Any damage to a Rockfon Mono Acoustic ceiling can always be repaired. However, the same base materials (Rockfon Mono Acoustic components) that the ceiling is made of must be used.

Rockfon Mono Acoustic ceilings should only be installed, maintained and repaired by certified Rockfon Mono Acoustic Installers. (Please contact Rockfon customer service for contact details of your nearest certified installer or visit us at www.rockfon.com).

AVOID

Do not use any paints or similar products that provide a total covering over the surface, since such products will reduce the ceiling's acoustic properties.

Cleaning

Rockfon Mono Acoustic ceiling has an anti-static coating, so it does not retain dust and can be kept clean.

To clean the surface, use a vacuum cleaner with a soft brush operating at low power.

Minor dirt can be covered using a pencil paint brush. Simply apply Rockfon Mono Acoustic Elegant Render to the bristles of the paint brush and dab it against the panel where there is dirt. More severe dirt has to be covered by respraying a new layer of Rockfon Mono Acoustic Elegant Render.

The ceilings must not be cleaned with water or wiped with a wet cloth.

Surface Discoloration

Rockfon Mono Acoustic ceilings can be renewed/refreshed by applying a new layer of render. For this, we advise you to call the certified installer that performed the initial work or another certified Rockfon Mono Acoustic installer. If the discolored spots are due to water damage (or because of deposition, surface blemishes or tobacco smoke) the surface should be thoroughly dried and sealed, using a blocker (in a spray or liquid form), so that any surface discoloration is fully covered prior to commencing repairs.

When a ceiling is finished with the Elegant Render and add two extra (thin) layers of Elegant Render are applied, the sound absorption ratio stays unchanged.

Maintenance Overview	
Cleaning	Vacuum cleaner with soft brush at low power.
Surface Discolouration	Apply two extra (thin) layers of render after covering the surface discolouration with a blocker.
Minor Cracks and Scratches	Apply a small amount of the Ready-Mix Render or Elegant Render.
Cracks and Indentations	Seal by using filler, sand it down carefully and apply a small amount of render.
Larger Cracks and Damage	Fill the gap with a "plug" made of a Rockfon Mono Acoustic panel, fill the "plug" with our filler, sand it down carefully and then cover the repaired spot with render.

Minor Cracks and Scratches

Superficial damage (screw holes) or minor cracks and scratches can be easily repaired using a small quantity of render (Rockfon Mono Acoustic Elegant Render) on the damaged parts. Alternatively, a thin layer of the render may be applied on the full ceiling.

Cracks and Indentations

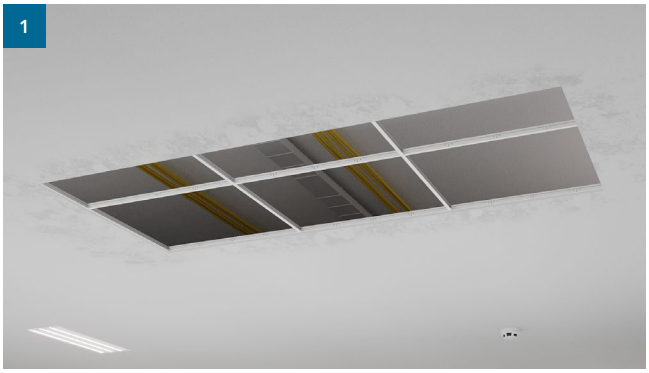
Damage (screw holes, dents, cracks or scratches) can be repaired by applying filler and sanding down the surrounding surface carefully and applying a small quantity of render on the damaged parts. Alternatively, a thin layer of the render may be applied on the full ceiling.

Larger Cracks and Damage

In the case of larger cracks, significant or structural damage (water damage, heavy impact) follow the procedure for replacing entire panel or fragments.

In this case, the repair method is as follows:

1



Removing damaged panels and sanding surrounding area.
Remove the damaged panel fragment by cutting it out with a knife at an angle of 60°.

2

Installing new panels and filling edges.
Cut a matching "plug" out of a new Rockfon Mono Acoustic panel and fasten the "plug" in the hole using the filler.

3

Sanding of dry joints and spraying of the area.
Sand the surface around the hole in order to remove the excess render.

4

Spraying and removal of masking protections of walls, floor etc.
Apply a new layer of the filler on the seam between the "plug" and the panel, following the instructions set out in the guide.

5

Apply the render, following the instructions set out in the system description. Apply the render over the entire ceiling surface.

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