Solution library **Mono[®] Acoustic**



CREATE AND PROTECT®

Mono Acoustic – Solution Library

This document contains possible solutions for different Mono Acoustic job site situations. The solutions might not always be the best possible way to install Mono Acoustic, but they can be used as inspiration for your specific case.

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Standard solution

Simple and quick to install, the sealant allows neat finishing between a vertical surface (partition, wall) and the Mono Acoustic ceiling.

After the render is applied, the entire ceiling is aesthetically homogenous and seamless.





Moulding

The moulding can be rendered, in the same way as the Mono Acoustic panels, or it can be painted.

As wood is a material that can expand and contract depending on temperature and humidity changes, Rockfon advises against using this material and as an alternative recommends cornices made of gypsum and other synthetic materials.





Shadow moulding

The gypsum for a shadow detail joint can be rendered in the same way as the Mono Acoustic panels, or it can be painted.





Shadow moulding

The metal shadow moulding can be rendered in the same way as the Mono Acoustic panels, or it can be painted.





Floating perimeter

The floating gypsum border can be rendered in the same way as the Mono Acoustic panels, or it can be painted.





Floating perimeter

The metal profile can be rendered in the same way as the Mono Acoustic panels, or it can be painted.





Curved floating perimeter

The floating gypsum border can be rendered, in the same way as the Mono Acoustic panels, or it can be painted.





Recessed up-lighting

The recessed light detail can be rendered, in the same way as the Mono Acoustic panels, or it can be painted.





MF plasterboard

Plasterboard can be rendered, in the same way as the Mono Acoustic panels, or it can be painted.

Either vertically or horizontally, the connection between Mono Acoustic and plasterboard can be installed in accordance

with the principles shown in the diagram. However, it must be ensured that if Mono Acoustic is installed vertically at a height lower than 2000 mm from the floor, it is not in an area where it can be touched.





System installation – Transitions

Modular ceiling on T15/T24

The T15 or T24 components ensure the load bearing and transition of the finish between a modular ceiling and a Mono Acoustic ceiling.



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Upstand junction

The plasterboard upstand can be rendered, in the same way as the Mono Acoustic panels, or it can be painted.





Moveable wall connection

The angle trim ensures the load bearing and connection between a moveable wall rail and a Mono Acoustic ceiling.





External corner

A small area of plasterboard supported by a reinforced strip will enable the creation of good looking, stable and aligned corners. In order to compensate for the 40 mm thickness of Mono Acoustic, the plasterboard area should comprisethree 13mm boards or one 13 mm and one 18 mm board. After the render is applied, the entire ceiling is aesthetically homogenous and seamless.







Internal angle corner

Simple and quick to install. An acrylic sealant should be used at the juncture of the two Mono Acoustic panels.





Light / Loudspeaker integration

The Mono Acoustic panels are 40 mm thick and therefore it must be confirmed that the built-in / recessed lighting fasteners / connections are compatible.

Light and loudspeaker reinforcement is mandatory. Maximum 1,5kg point load and 2kg/m2 evenly distributed load is allowed without reinforcement.





Square access hatch integration

Access hatches can be finished with Mono Acoustic Render for a consistent appearance.

Access hatches are available in standard 400x400 mm and 600x600 mm modular sizes. Other dimensions are available to accommodate air-conditioning equipment. Contact Rockfon for detail. The square access hatch should be installed from underneath the grid system!





Round access hatch integration

Round access hatches are opened by rotating and releasing the opening. Round access hatches are available in 700 mm diameter. Reinforcement around the hatch is mandatory.

They are made from aluminum, pre-painted white and are ready to be rendered. They can be finished with Mono Acoustic Render for a consistent appearance. Once finished, only a small tooled joint of approximately 1 mm is left for the operating clearance.





Movement joints

Movement joints in a Mono Acoustic ceiling must coincide with the movement joints in the building.

In the case of large dimension ceilings, the Mono Acoustic ceiling must be installed with a movement joint. The maximum surface area between these joints is limited to 300 m^2 , and the largest dimension must not exceed 25m.





Vertical installation

After having received a prime coat, plasterboard can be finished with Mono Acoustic Render.

Rockfon recommends installing Mono Acoustic on walls from 2000 mm above finished floor level to ensure that it cannot be touched when the building is operational.









Direct installation (without plenum)

Mono Acoustic can be installed directly to a soffit / substrate whilst maintaining high sound absorption properties.

The evenly distributed weight of a directly installed Mono Acoustic is low at approximately 6 kg/m², however, it is advisable to check that the supporting structure / soffit is capable of taking the load.

When directly installing Mono Acoustic the following points should be checked:

- Surface level / flatness: the maximum level tolerance is 2 mm to one metre and 5 mm over five metres. This tolerance is valid for all directions.
- **Soffit** / **substrate condition:** The substrate must be dry, stable, noncrumbled and capable of achieving a good fixing. Air leakage through the soffit needs to be controlled and avoided!
- Fasteners: They must be suitable for the substrate. For example, in plasterboard (12,7 mm), it is advisable to use large screws.





Mono Acoustic Flecto (vaulted)

Mono Acoustic Flecto ceiling panels allow for installation to concave or convex surfaces with a radius of 500 mm minimum.

A Mono Acoustic Flecto ceiling should be fitted to a curved structure. Either a solid structure or a "shell' or framework of the desired geometry should be constructed. The structure or "shell" serves as a support for the fastening screws and the Mono Acoustic Flecto panels. A "shell" framework would typically be constructed using plasterboards with the radius determining the type of board to be used to make the shell, e.g. 1x 12,7 mm, 1x 9,5 mm or 2x 6,0 mm. The Mono Acoustic Flecto panels should be fastened to the structure using large-pitch screws (e.g. Wurth 0189 39 55).

Rockfon advises against using timber panels to make supporting structures/shells.





Notes
