Rockfon

INSTALLATION GUIDE

Rockfon® System Humitec Baffle

4F-edge

A framed baffle system

- Flexible free-hanging acoustic solutions, perfect for humid or harsh indoor environments or for areas that require regular cleaning
- Built to withstand humid and corrosive Class D environments
- Supplied with a robust and durable frame that protects the baffle edges from damage and ensures cleanliness
- Ideal for areas where frequent or unhindered access to services is required

Sounds Beautiful

Description

Rockfon System Humitec Baffle is an acoustic baffle system consisting of a 50 mm stone wool baffle and a variety of installation options. Its edges are encased in a robust, powder coated galvanised steel frame, which provides multiple installation options. Both sides of the baffle are covered with an aesthetically pleasing mineral fleece with a spray painted top coat.

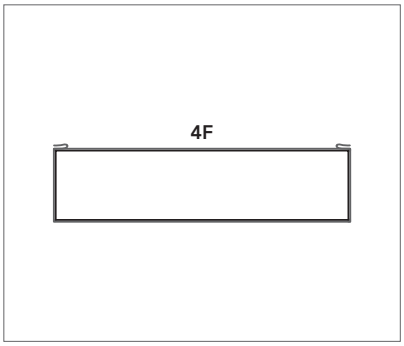
Available in two suspension design possibilities: **Rockfon Baffle ECR Direct Fixing & Suspended Bracket Solution** and **Rockfon Baffle ECR T24 Solution**.

These baffles are ideal for rooms and buildings where the use of a traditional suspended ceiling is technically not appropriate (e.g. where the principles of thermal mass are used in building design) and where the environment demands a ceiling system that can withstand humidity and regular cleaning. It is a flexible solution which can contribute to appropriate room acoustics in new buildings and make room acoustic improvements in existing buildings. It is quick and easy to install.

Restrictions

The suspension accessories of Rockfon System Humitec Baffle can be used in high humidity but not in areas subjected to wind load and drafts.

Baffle – 4F-edge



Rockfon Humitec Baffle 4F-edge.

Performance

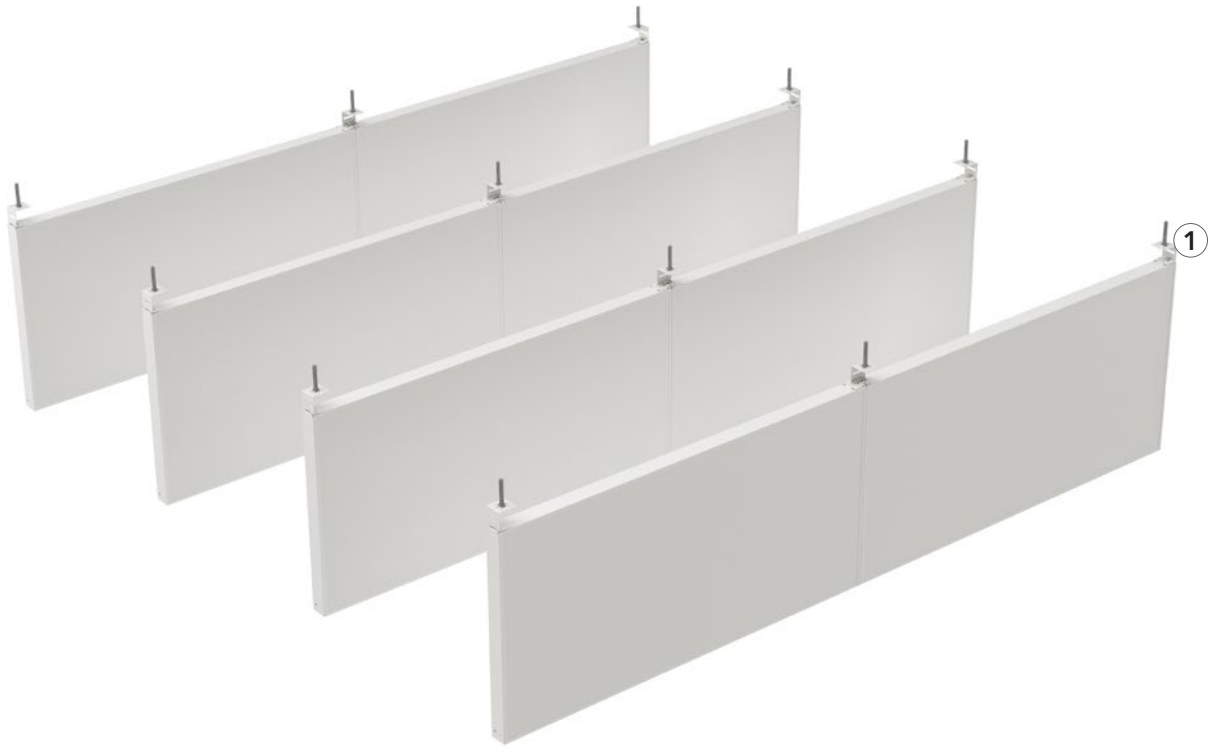
Safety against failure
Class D 40°C, 95% RH (EN 13964:2014)

Corrosion resistance
Class D (EN 13964:2014)

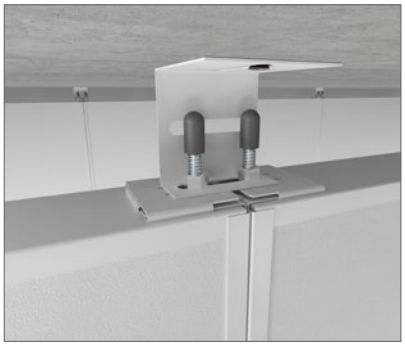
Installation

There are 2 different installation options, providing design and flexibility:

1. Rockfon Baffle ECR Direct Fixing & Suspended Bracket Solution



Rockfon Humitec Baffles fixed to soffit with ECR Direct Fixing Brackets.



Two Rockfon Humitec Baffles connected to ECR Direct Fixing Bracket.

Dimples on the end of the Baffles to ensure correct alignment.

1. Rockfon Baffle ECR Direct Fixing & Suspended Bracket Solution

System components and consumption guide*

Baffles	Dimensions (mm)	Packing	Weight	Baffle row distance**		
				1200	600	300
Rockfon Humitec Baffle 4F	1200 x 600 x 50	6 pcs/box	25.2 kg/box	0.69 pcs/m²	1.39 pcs/m²	2.78 pcs/m²
	1200 x 450 x 50	6 pcs/box	20.4 kg/box			
Accessories						
① ECR Direct Fixing Bracket		24 pcs/box	1.0 kg/box	1 pc/baffle + 1 pc/row		
② Threaded rod M6, 30 mm, ECR		48 pcs/box	1.0 kg/box	2 pcs/baffle		
③ Nut M6 ECR		48 pcs/box	0.2 kg/box	2 pcs/baffle		
④ Protective cap M6		100 pcs/box	0.2 kg/box	2 pcs/baffle		
⑤ Threaded rod M6, 1000 mm, ECR		100 pcs/box	16.7 kg/box	2 pcs/baffle		

* For baffles in parallel rows, no gaps.
** Centre distance between rows of baffles (mm).

Accessories

1. ECR Direct Fixing Bracket

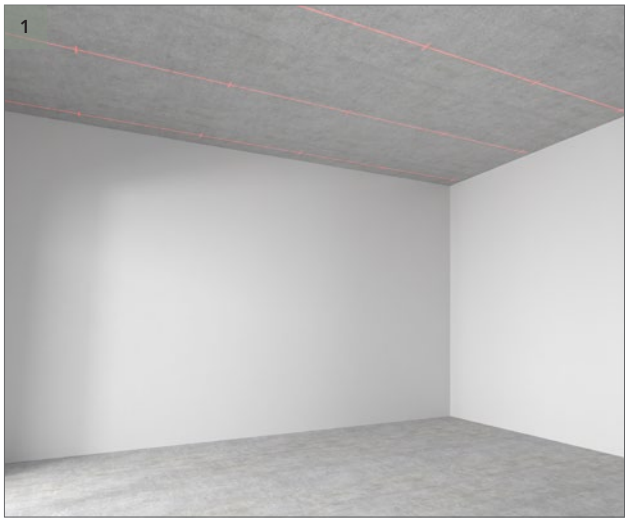
2. Threaded rod M6, 30 mm, ECR

3. Nut M6 ECR

4. Protective cap M6

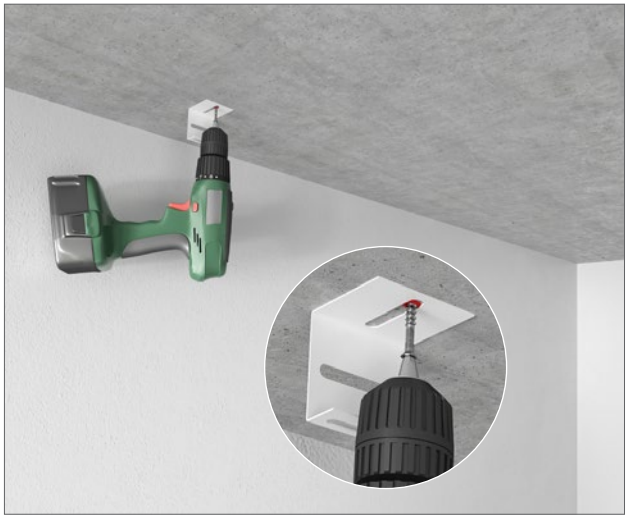
5. Threaded rod M6, 1000 mm, ECR

1. Rockfon Baffle ECR Direct Fixing & Suspended Bracket Solution



Ensure the evenness of the soffit before securing the ECR Direct Fixing Brackets to it. If necessary, eliminate any unevenness. Use a laser to symmetrically mark drilling points in a straight lines. Mark drilling points every 1200 mm on the soffit.

Drill where you have marked drilling points.

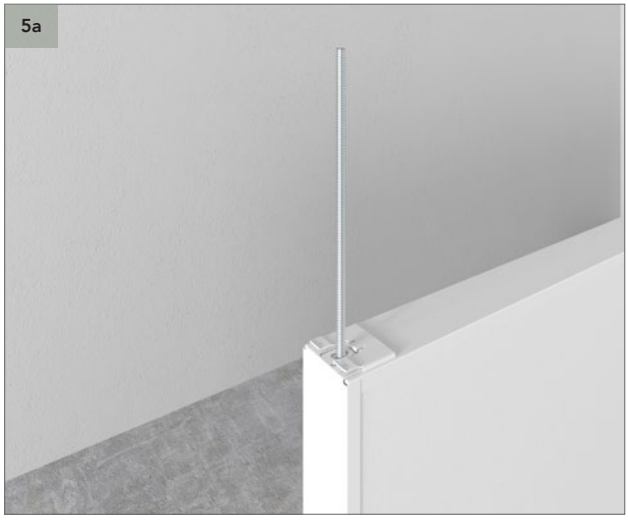


Use appropriate fixings for the soffit. Secure the longer wing of the ECR Direct Fixing Bracket to the soffit using Class D corrosion resistant fixings.

1. Rockfon Baffle ECR Direct Fixing & Suspended Bracket Solution

Secure the ECR Direct Fixing Brackets to the soffit every 1200 mm – as indicated. Ensure the position of the brackets is aligned and level. In harsh environments remember to use Class D corrosion resistant fixings.

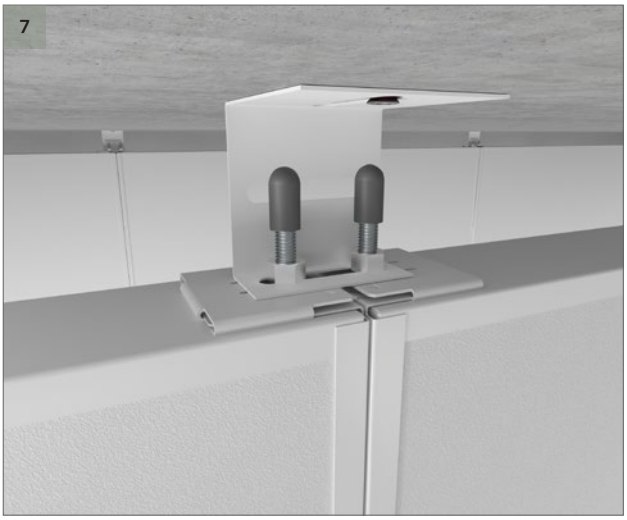
When fixing baffles directly to the ECR Direct Fixing Bracket, use the 30 mm M6 threaded rod ECR Class D and screw it into M6 thread in the baffle (using a flat screw-driver or hexagonal key). Make sure you have enough thread left above the baffle – approx. 20-25 mm – for nut M6.



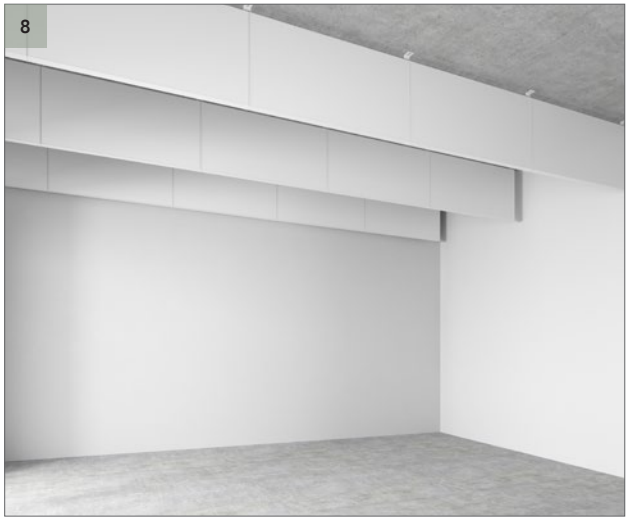
When suspending the baffles 300 mm (or any other desired height <1000 mm)
from the soffit, use the 1000 mm M6 threaded rod ECR Class D, cut it to the desired length and screw the un-cut end into the M6 thread in the Baffle. Make sure you have enough thread left above the baffle – approx. 20-25 mm – for nut M6 and use the Protective cap M6.

1. Rockfon Baffle ECR Direct Fixing & Suspended Bracket Solution

Fix your baffle to the ECR Direct Fixing Bracket by locking M6 nut to top end of M6 thread, when above the bracket. Don't tighten the nuts until you are ready to level all the baffles. In harsh environments, remember to use Class D components. If necessary adjust the Baffle's position using M6 nuts and slotted holes in the ECR Direct Fixing Brackets.

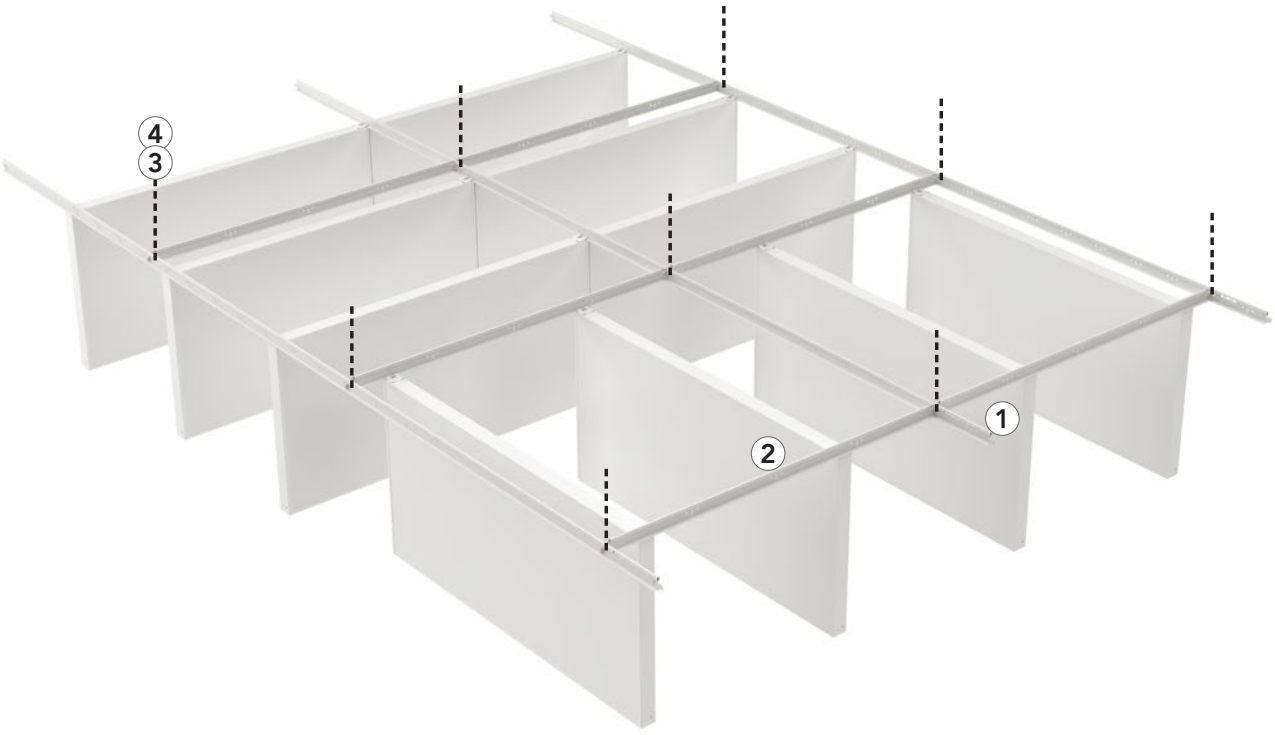


Fix next baffle to the ECR Direct Fixing Bracket and adjust the position, so both baffles are level and in line. Use the dimple on the end of the baffles to align their position.

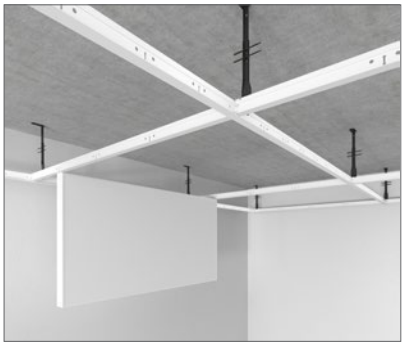


Fix remaining the baffles to the soffit and align them using the dimple on the end. When necessary you can adjust the spacing between the baffles by moving them in the slotted holes inside the ECR Direct Fixing Brackets.

2. Rockfon Baffle ECR T24 Solution



Rockfon Humitec Baffle fixed to a Chicago Metallic T24 ECR Class D ceiling grid.



Chicago Metallic T24 ECR Class D ceiling grid with Rockfon Humitec Baffle.

Dimple on the end of the baffle to ensure correct alignment.

2. Rockfon Baffle ECR T24 Solution

System components and consumption guide*

Baffles	Dimensions (mm)	Packing	Weight	Baffle row distance**		
				1200	600	300
Rockfon Humitec Baffle 4F	1200 x 600 x 50	6 pcs/box	25.2 kg/box	0.69 pcs/m²	1.39 pcs/m²	2.78 pcs/m²
	1200 x 450 x 50	6 pcs/box	20.4 kg/box			
Chicago Metallic T24 Click 2890 ECR, Class D						
① Main runner T24 ECR Click 3600		15 pcs/box	23.6 kg/box	0.83 lm/m²	0.83 lm/m²	0.83 lm/m²
② Cross tee T24 ECR Click 1200		45 pcs/box	18.9 kg/box	0.83 lm/m²	0.83 lm/m²	0.83 lm/m²
Accessories						
③ Nonius suspension hanger ECR, Class D		-	-	0.69 pcs/m²	0.69 pcs/m²	0.69 pcs/m²
④ Hanger ECR, Class D with M6 threaded rod ECR 1000 mm, Class D, nuts M6 ECR, Class D and protective cap M6		-	-	0.69 pcs/m²	0.69 pcs/m²	0.69 pcs/m²

* For Baffles in parallel rows, no gaps.
** Centre distance between rows of baffles (mm).

Chicago Metallic T24 Click 2890 ECR, Class D

1. Main runner T24 ECR Click 3600

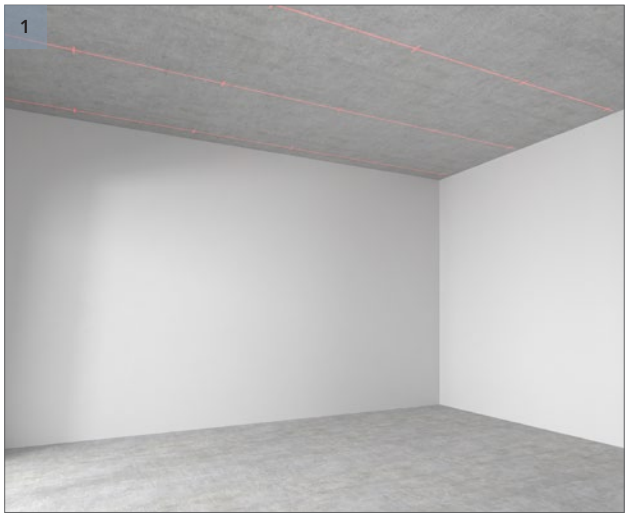
2. Cross tee T24 ECR Click 1200

Accessories

3. Nonius suspension hanger ECR, Class D

4. Hanger ECR Class D with M6 threaded rod ECR Class D

2. Rockfon Baffle ECR T24 Solution



Use a laser to symmetrically mark drilling points in straight lines. Mark drilling points every 1200 mm on the soffit, in both length and width.

Drill where you have marked drilling points.

Insert plugs into the holes in the soffit. Use fixings that are appropriate for the soffit. Attach top part of ECR nonius hanger to the soffit.

Attach all ECR nonius suspension hangers.

2. Rockfon Baffle ECR T24 Solution

Connect lower part nonius hangers to upper part nonius hangers and attach T24 ECR main runners. Two intersection clips should be used per connection.

Install T24 ECR cross tees to main runners every 1200 mm. Ensure the grid is level before installing the baffles. Use intersection clips to adjust to correct level for all T24 profiles. ***Note:*** *if the T24 ECR grid is not level, the baffles will not be level either!*

Fix Rockfon Humitec Baffles to the suspended Chicago Metallic T24 ECR grid.

You can use the slots of the T24 ECR profiles to align the baffles.

2. Rockfon Baffle ECR T24 Solution

8

Rockfon Humitec Baffles suspended between T24 ECR profiles.

9

Two baffles suspended at a slot of T24 ECR profiles. Use the dimples on the sides of the baffles to align perfectly.

10

Fix all the remaining baffles to the T24 ECR grid and align.

General installation recommendations

Safe and levelled soffit structure

Always ensure that the soffit structure is solid and that it has a minimum load bearing capacity of 10 kg per suspension point. Make sure that the soffit surface is even. If not, ensure that you level out the surface of the soffit if necessary before installing Rockfon Baffle solutions.

Suspension grid

Unless specified otherwise, the ceiling should be set out symmetrically and where possible the hangers should be fastened with appropriate top fixings to the main runners at 1200 mm centres (or less with greater load).

Main runners should be positioned at 1200 mm centres for 1200 mm long baffles.

For proper grid installation, ensure that the T profiles are perfectly aligned, horizontally and that the diagonals of the modules are equal. Main runner joints should be staggered and there should be a hanger positioned within 150 mm of the fire expansion element/ cut-out and within 450 mm of the end of the main runner where it terminates at a perimeter.

Additional hangers may be necessary to support the weight of ceiling services.

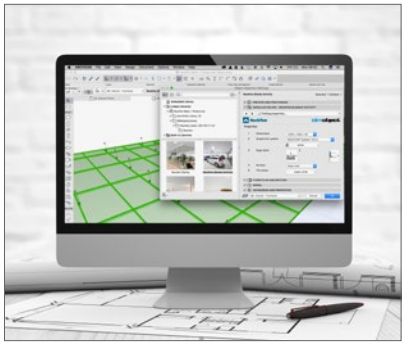
Baffles

We recommend the use of clean nitrile or PU coated gloves when installing Rockfon Baffles in order to avoid finger prints and pollution of the surface.

For an optimum work environment, we recommend installers always observe common work practices and follow the installation advice as shown on our packaging.

Tools

Rockfon has developed specific tools that are available on **www.rockfon.co.uk**



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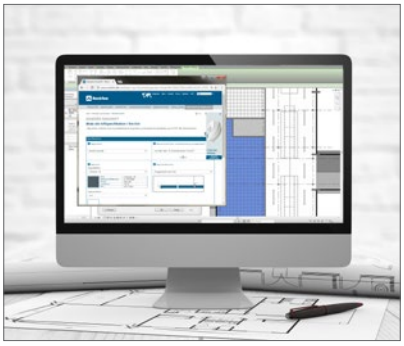

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