

Rockfon® System Humitec Baffle™

System Description



A framed baffle system

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

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.

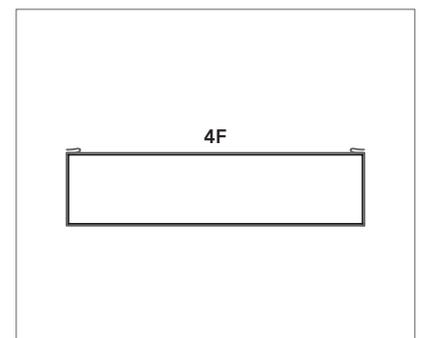
Two installation options are available: **Rockfon Baffle ECR Direct Fixing Bracket Solution** and **Rockfon Baffle ECR T24 Solution**.

This system is 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 good and flexible solution to contribute to appropriate room acoustics in new buildings and to make room acoustic improvements in existing buildings. It is easy and fast to install.

Restrictions

The suspension accessories of Rockfon System Humitec Baffle can be used in high humidity or 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

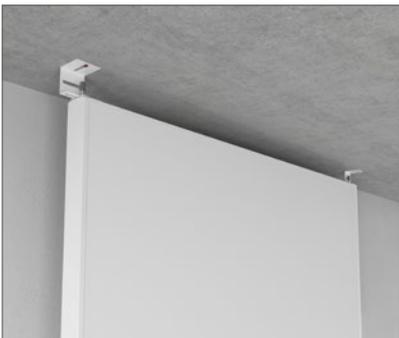
Class D (EN 13964:2014)

Installation

There are 2 different kinds of installation,
providing design and installation flexibility:

1	Rockfon Baffle ECR Direct Fixing Bracket Solution	4
2	Rockfon Baffle ECR T24 Solution	9

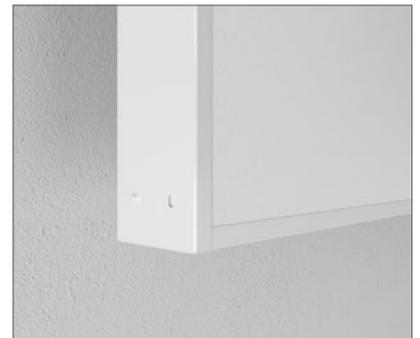
1. Rockfon Baffle ECR Direct Fixing Bracket Solution



Rockfon Humitec Baffles fixed to soffit via ECR Direct Fixing Bracket.



Two Rockfon Humitec Baffles connected to ECR Direct Fixing Bracket.



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

1. Rockfon Baffle ECR Direct Fixing 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/m ²	1,39 pcs/m ²	2,78 pcs/m ²
	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.

** Center distance between baffles' rows (mm).

Components 1, 2, 3, 4 available in set.

Accessories

1. ECR Direct Fixing Bracket



2. Threaded rod M6, 30 mm, ECR



3. Nut M6 ECR



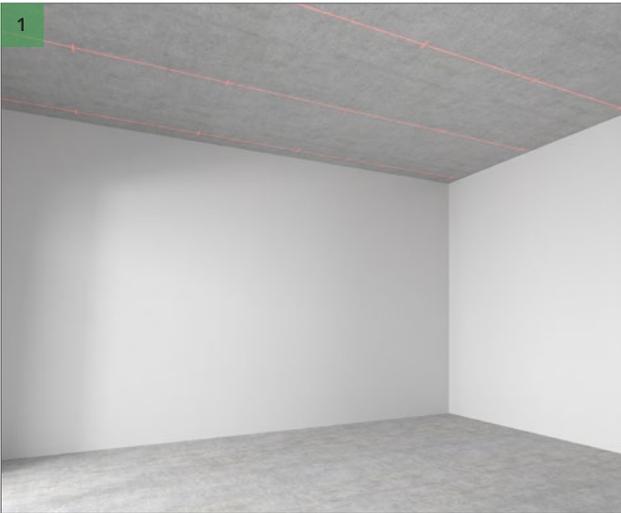
4. Protective cap M6



5. Threaded rod M6, 1000 mm, ECR



1. Rockfon Baffle ECR Direct Fixing 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 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.

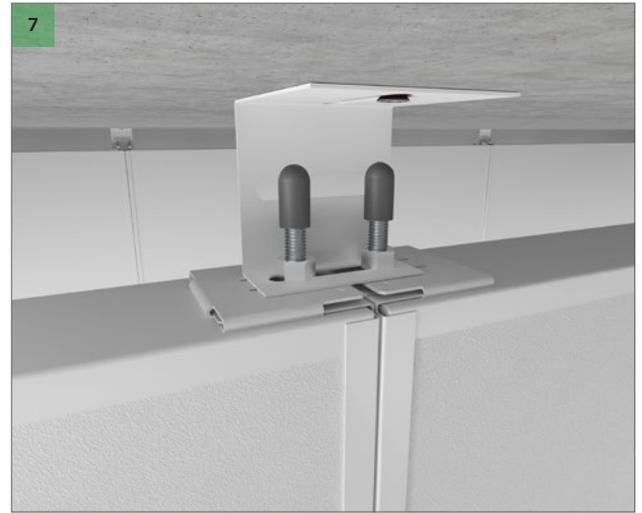


When suspending the baffles 300 mm (or any other desired height <1000 mm) from the soffit, use the 1000 mm M6 threaded rod ECR class D, cut it on the desired length and screw the non-cut side into M6 thread in the Baffle. Make sure you have enough thread left above the baffle – approx. 20-25 mm – for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

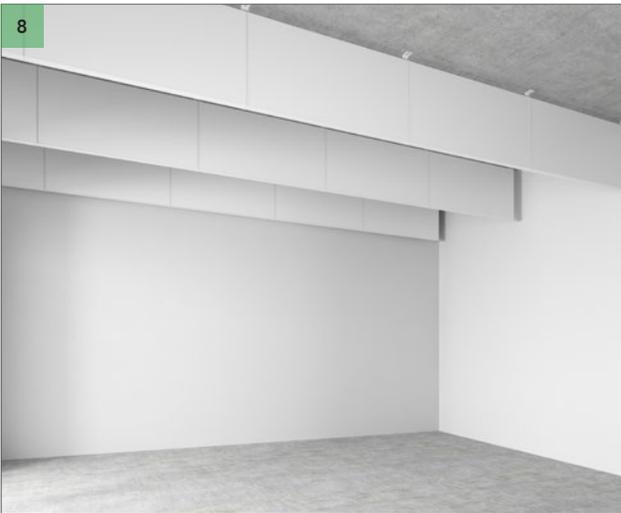
1. Rockfon Baffle ECR Direct Fixing Bracket Solution



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 last moment, when you'll be levelling out all the Rockfon Humitec Baffles. In harsh environments, remember to use class D components. If necessary adjust a Rockfon Humitec Baffle's position using M6 nuts and oval holes in the ECR Direct Fixing Brackets.

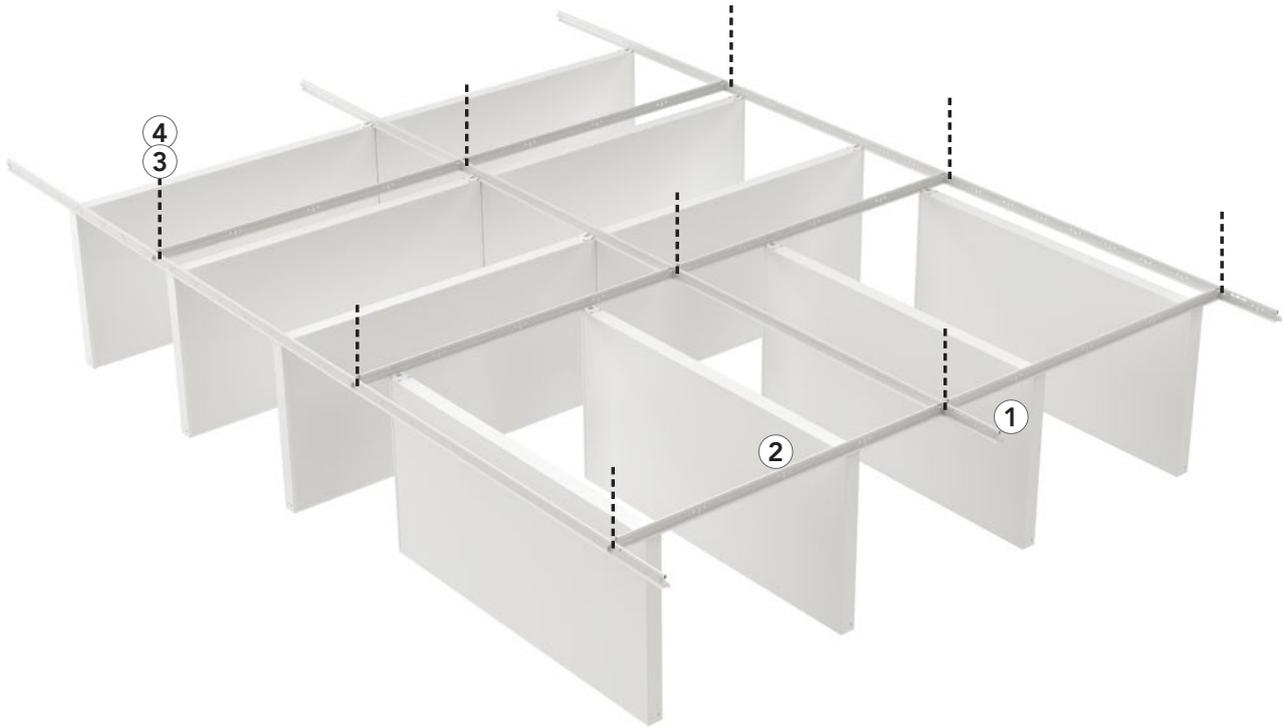


Fix next baffle to the ECR Direct Fixing Bracket and adjust the position, so both baffles are levelled and even in line. Use the dimple on the end of the baffles to align their position.



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

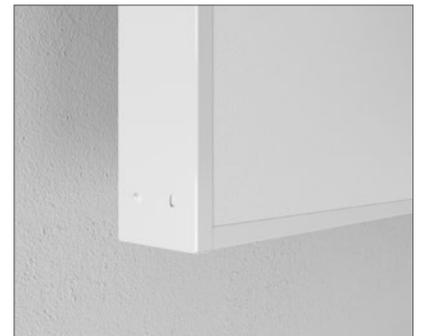
2. Rockfon Baffle ECR T24 Solution



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 good 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/m ²	1,39 pcs/m ²	2,78 pcs/m ²
	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/m ²	0,83 lm/m ²	0,83 lm/m ²
② Cross tee T24 ECR Click 1200		45 pcs/box	18,9 kg/box	0,83 lm/m ²	0,83 lm/m ²	0,83 lm/m ²
Accessories						
③ Nonius suspension hanger ECR, class D		-	-	0,69 pcs/m ²	0,69 pcs/m ²	0,69 pcs/m ²
④ Special 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/m ²	0,69 pcs/m ²	0,69 pcs/m ²

* For Baffles in parallel rows, no gaps.

** Center distance between Baffles' rows (mm).

Chicago Metallic T24 Click 2890 ECR, class D

1. Main runner T24 ECR Click 3600



2. Cross tee T24 ECR Click 1200



Accessories

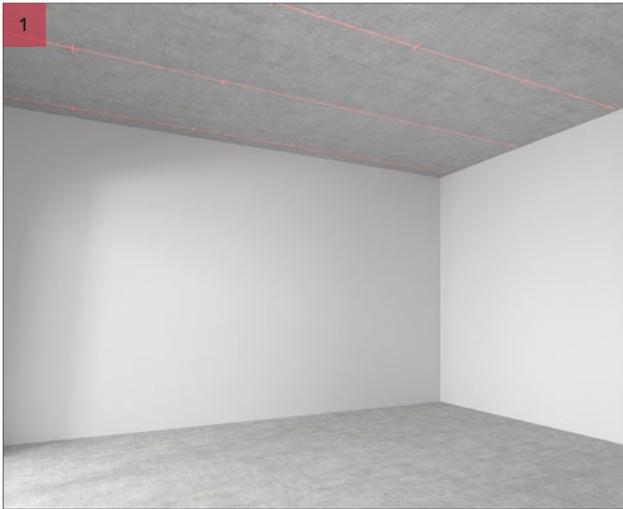
3. Nonius suspension hanger ECR, class D



4. Special 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 a 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 a top part of nonius hanger to the soffit.



Attach all Nonius suspension hangers ECR (or the Special hanger ECR class D with M6 threaded rod ECR class D), class D to the soffit.

2. Rockfon Baffle ECR T24 Solution



Attach T24 ECR main runners by bottom parts of nonius hangers to the top parts of nonius hangers and lock with two locking pins.



Install T24 ECR cross tees to main runners every 1200 mm. Ensure the grid is leveled before installing the baffles. Use the locking pins to adjust right level for all T24 profiles. **Note:** if the T24 ECR grid is not level, the baffles are not 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 Rockfon Humitec Baffles.

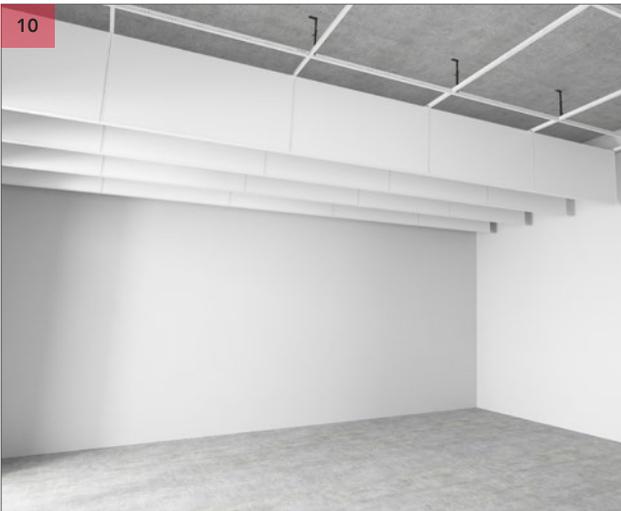
2. Rockfon Baffle ECR T24 Solution



Rockfon Humitec Baffles suspended between T24 ECR profiles.



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



Fix all the remaining Rockfon Humitec 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 Baffles 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

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

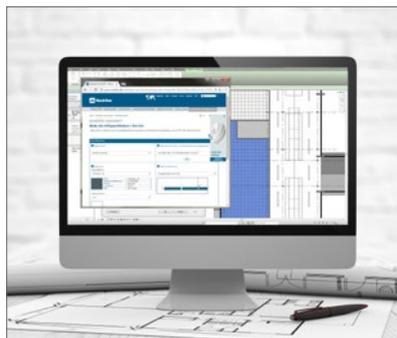
For an optimised work environment, we recommend installers always observe common work practices and follow the installation advise as shown on our packaging.

Tools

Rockfon has developed specific tools that are available on www.rockfon.asia



Visit our online CAD Library or BIM portal to assist you in your project design.



Generate specification texts for our products on our website.



Explore our vast library of reference projects on our website.

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