Rockfon

INSTALLATION GUIDE

# Rockfon® System Universal Baffle

4F-edge

2F-edge

A framed baffle system

- An ideal acoustic solution where a traditional suspended ceiling is not suitable
- Quick and easy installation
- Available with multiple suspension methods
- A robust acoustic system that protects the baffle edges from damages

Sounds Beautiful

# Description

**Rockfon System Universal Baffle** is an acoustic baffle system consisting of a 50 mm stone wool baffle. Supplied in two formats, either two end-capped (2F) or four fully framed edges (4F), colour matched to the baffle. Both sides of the baffle are covered with an aesthetically pleasing, smooth mineral fleece.

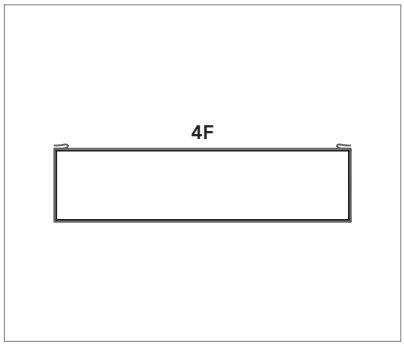
Available in three suspension design possibilities: **Rockfon Baffle Support Track Solution**, the **Rockfon Baffle T24 Solution** and the **Rockfon Baffle Design/Classic Suspension Set Solutions**.

These baffles are ideal for rooms and buildings where the use of a traditional suspended ceiling is technically not appropriate (e.g. where the principle of thermal mass is used in building design) or a different ceiling design is desired. It is a flexible solution to contribute to appropriate room acoustics in new buildings and to make room acoustic improvements in existing buildings. It is quick and easy to install.

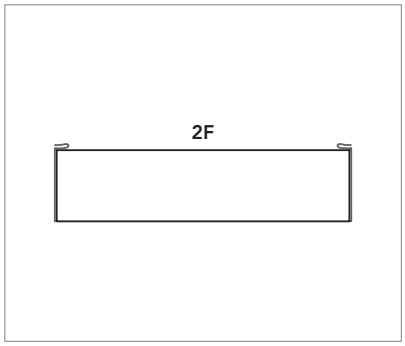
### Restrictions

Due to the risk of corrosion, the suspension accessories of Rockfon System Universal Baffle should not be used in swimming pools or outdoor environments. Rockfon System Universal Baffle should not be used in areas subjected to wind load and drafts. For enhanced corrosion resistant (ECR) requirements, please refer to the Rockfon Humitec Baffle.

### Baffle – 4F-edge




*Rockfon Universal Baffle 4F-edge.*




*Rockfon Universal Baffle 2F-edge.*

# Performance

**Safety against failure**
Class B (EN 13964:2014)

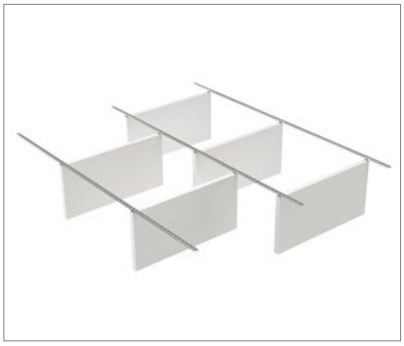
**Corrosion resistance**
Class B (EN 13964:2014)

# Installation

**There are 3 different installation options, providing design and installation flexibility:**

## 1. Rockfon Baffle Support Track Solution


*Rockfon Universal Baffles in parallel rows – in Support Tracks.*



*Rockfon Baffle Support Track Solution with a staggered installation.*

*Rockfon Universal Baffle fixed in a Support Track.*

*Dimples on the end of the baffles to ensure correct alignment.*

## 1. Rockfon Baffle Support Track Solution

# System components and consumption guide*

| Baffle | Dimensions (mm) | Packing | Weight | Baffle row distance** | | |
|---|---|---|---|---|---|---|
| | | | | 1200 | 600 | 300 |
| Rockfon Universal Baffle 4F | 1200 x 600 x 50 | 6 pcs/box | 24.0 kg/box | 0.69 pcs/m² | 1.39 pcs/m² | 2.78 pcs/m² |
| | 1200 x 450 x 50 | 6 pcs/box | 19.2 kg/box | | | |
| | 1200 x 450 x 50 | 6 pcs/box | 19.2 kg/box | | | |
| | 1800 x 300 x 50 | 12 pcs/box | 18.0 kg/box | 0.46 pcs/m² | 0.93 pcs/m² | 1.85 pcs/m² |
| | 1800 x 600 x 50 | 6 pcs/box | 33.5 kg/box | | | |
| Rockfon Universal Baffle 2F | 1200 x 600 x 50 | 6 pcs/box | 20.2 kg/box | 0.69 pcs/m² | 1.39 pcs/m² | 2.78 pcs/m² |
| | 1200 x 450 x 50 | 6 pcs/box | 14.2 kg/box | | | |
| | 1200 x 300 x 50 | 12 pcs/box | 20.9 kg/box | | | |
| Accessories | | | | | | |
| ① Rockfon Baffle Support Track, 1.0 mm Galva | 3000 x 30 x 30 | 8 pcs/box | 25 kg/box | 0.28 pcs/m² | 0.56 pcs/m² | 1.11 pcs/m² |
| ② Rockfon Baffle Support Track, 1.0 mm, White | 3000 x 30 x 30 | 8 pcs/box | 25 kg/box | | | |
| ③ Rockfon Baffle Support Track, 1.0 mm, Black | 3000 x 30 x 30 | 8 pcs/box | 25 kg/box | | | |
| ④ Rockfon Baffle Fixing Clip + M6 socket bolt | | 24 pcs/box | 0.4 kg/box | 2 pcs/baffle | | |
| ⑤ Rockfon Baffle Support Track Coupling*** | | 48 pcs/box | 1.5 kg/box | 1 pc/Support Track | | |
| ⑥ Rockfon Baffle Support Track End Stop*** | | 48 pcs/box | 0.7 kg/box | 2 pc/row | | |

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

### Accessories

1. Rockfon Baffle Support Track, Galva

2. Rockfon Baffle Support Track, White

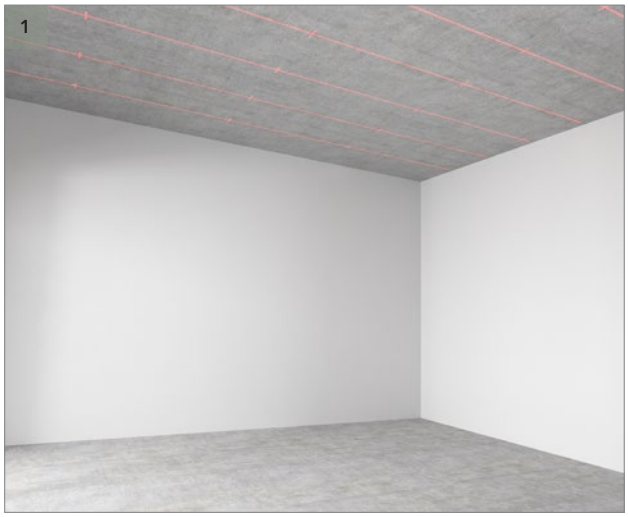
3. Rockfon Baffle Support Track, Black

4. Rockfon Baffle Fixing Clip + M6 socket bolt

5. Rockfon Baffle Support Track Coupling

6. Rockfon Baffle Support Track End Stop

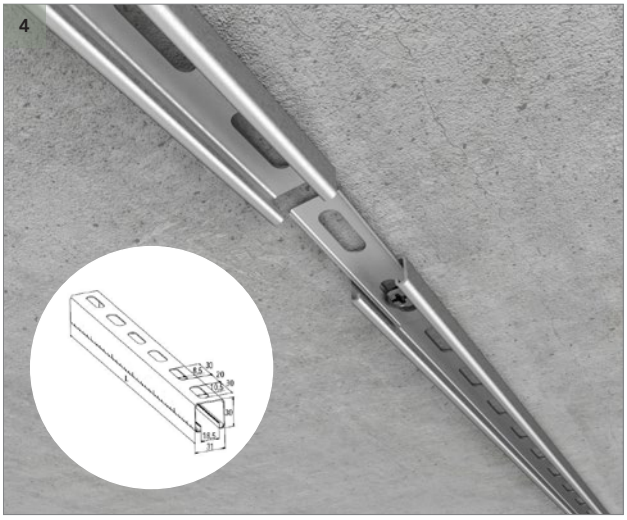
## 1. Rockfon Baffle Support Track Solution




*Use a laser to symmetrically mark drilling points in straight lines. Mark your drilling points on the soffit, at the ends of the Support Track and one in the middle.*


*Drill holes for the Support Track. Use fixings that are appropriate for the soffit.*


*Fix the Support Tracks to the soffit and level them properly. When necessary consider the use of flexible gaskets, e.g. rubber or foam gaskets, between Support Track and soffit – to compensate for uneven soffit surface and level Support Tracks. Remember to use fixings that are appropriate for the soffit. If required, use End Stop at the end of Support Track.*
***Note:** if the Support Track is not level, the baffles will not be level either!*




*If required, use Rockfon Baffle Support Track Couplings when installing multiple lengths of Track. When using the Coupling, only one fixing point in the connector is needed instead of two.*

## 1. Rockfon Baffle Support Track Solution

5

*Connect a fixing clip to both ends of baffles using a hexagonal key and M6 socket bolt. Ensure that the clips are located parallel to the length of the baffle.*

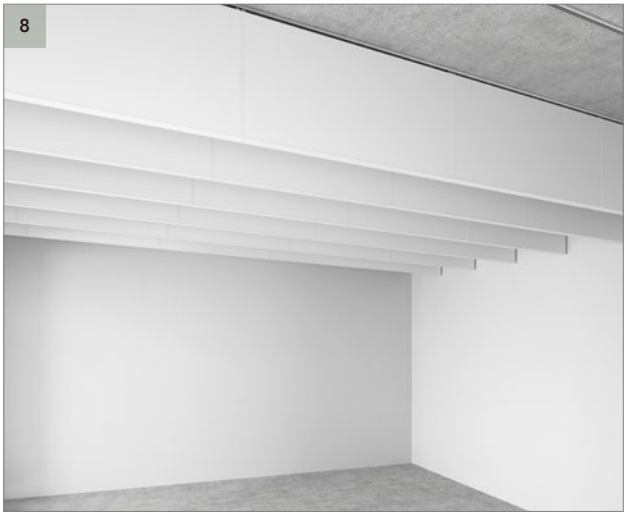
6

*Attach the baffles to the Support Track. It is secure when you hear the ''click".*

7

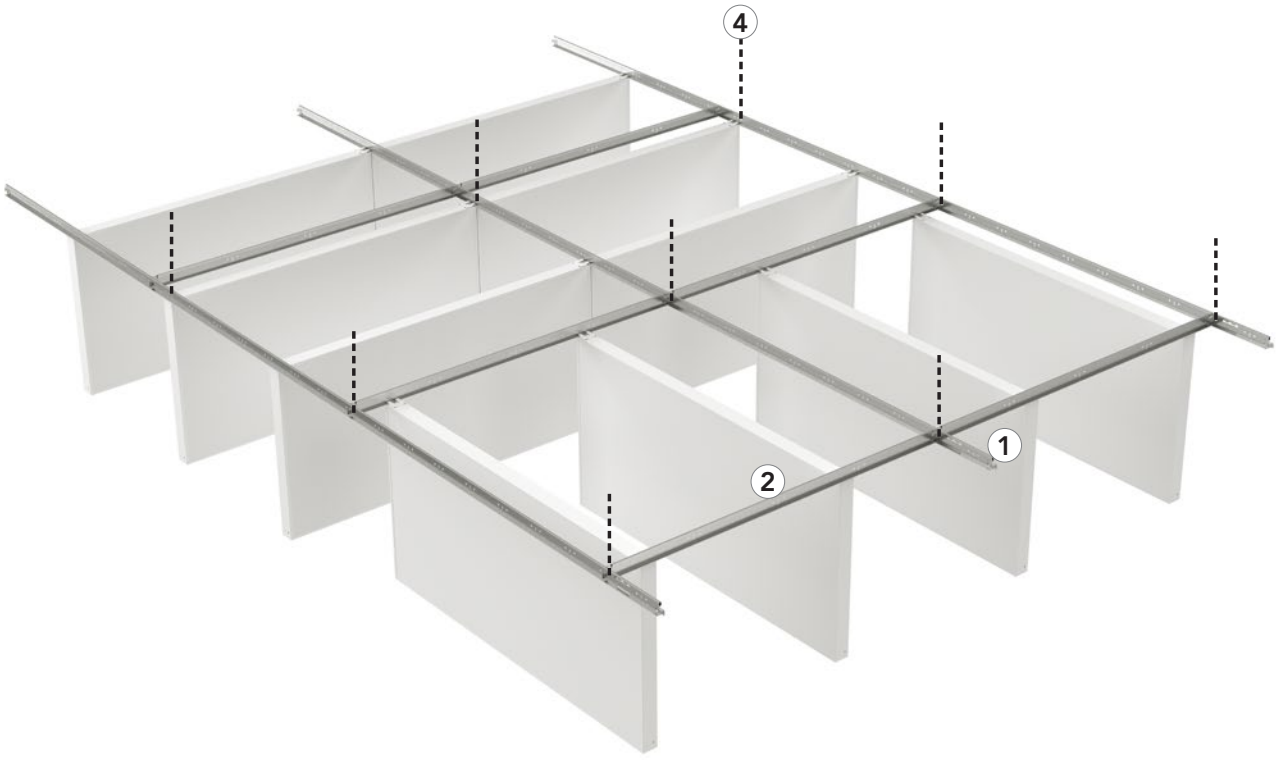
*Fix baffles in the Support Track in the right position, as required. It is possible to 'fine tune' baffle position later.*

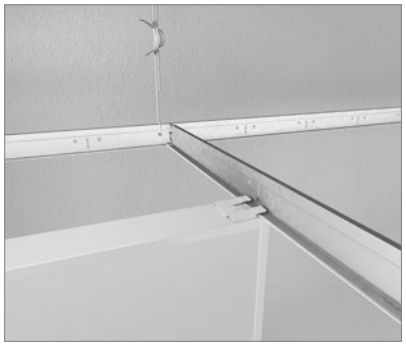
8



*Install remaining baffles and remember to use the dimples on the ends of the baffles to ensure alignment.*

## 2. Rockfon Baffle T24 Solution



*Rockfon Universal Baffle correctly fixed to a Chicago Metallic T24 profile (both connecting tabs clicked on the table of the T24 profile).*

*Rockfon Universal Baffle fixed between Chicago Metallic T24 profiles.*

*Dimples on the end of the baffles to ensure correct alignment.*

**2. Rockfon Baffle T24 Solution**

# System components and consumption guide*

| Baffles | Dimensions (mm) | Packing | Weight | Baffle row distance** | | |
|---|---|---|---|---|---|---|
| | | | | 1200 | 600 | 300 |
| Rockfon Universal Baffle 4F | 1200 x 600 x 50 | 6 pcs/box | 24.0 kg/box | 0.69 pcs/m² | 1.39 pcs/m² | 2.78 pcs/m² |
| | 1200 x 450 x 50 | 6 pcs/box | 19.2 kg/box | | | |
| | 1200 x 300 x 50 | 12 pcs/box | 30.3 kg/box | | | |
| | 1800 x 300 x 50 | 12 pcs/box | 18.0 kg/box | 0.46 pcs/m² | 0.93 pcs/m² | 1.85 pcs/m² |
| | 1800 x 600 x 50 | 6 pcs/box | 33.5 kg/box | | | |
| Rockfon Universal Baffle 2F | 1200 x 600 x 50 | 6 pcs/box | 20.2 kg/box | 0.69 pcs/m² | 1.39 pcs/m² | 2.78 pcs/m² |
| | 1200 x 450 x 50 | 6 pcs/box | 14.2 kg/box | | | |
| | 1200 x 300 x 50 | 12 pcs/box | 20.9 kg/box | | | |
| Chicago Metallic T24 Click 2890 and accessories | | | | Consumptions (1200 mm Baffles) | | |
| ① Main runner T24 Click 3600 | 3600 (1200 mm centres) | 15 pcs/box | 19.5 kg/box | 0.83 lm/m² | 0.83 lm/m² | 0.83 lm/m² |
| ② Cross tee T24 Click 1200 | | 45 pcs/box | 15.7 kg/box | 0.83 lm/m² | 0.83 lm/m² | 0.83 lm/m² |
| ④ Suspension hanger | | - | - | 0.69 pcs/m² | 0.69 pcs/m² | 0.69 pcs/m² |
| Chicago Metallic T24 Click 2890 and accessories | | | | Consumption (1800 mm Baffles) | | |
| ① Main runner T24 Click 3600 | 3600 (1800 mm centres) | 15 pcs/box | 19.5 kg/box | 0.56 lm/m² | 0.56 lm/m² | 0.56 lm/m² |
| ③ Cross tee T24 Click 1800 | | 25 pcs/box | 16.2 kg/box | 0.83 lm/m² | 0.83 lm/m² | 0.83 lm/m² |
| ④ Suspension hanger | | - | - | 0.46 pcs/m² | 0.46 pcs/m² | 0.46 pcs/m² |

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

## Chicago Metallic T24 Click 2890

1. Main runner T24 Click 3600

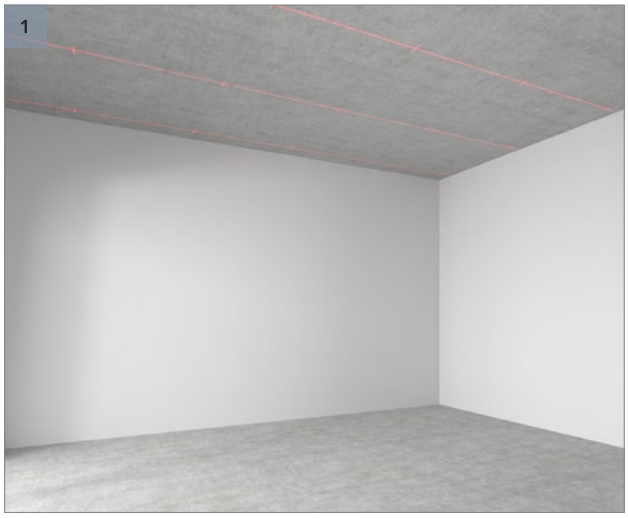
2. Cross tee T24 Click 1200

3. Cross tee T24 Click 1800

## Accessories

4. Suspension hanger

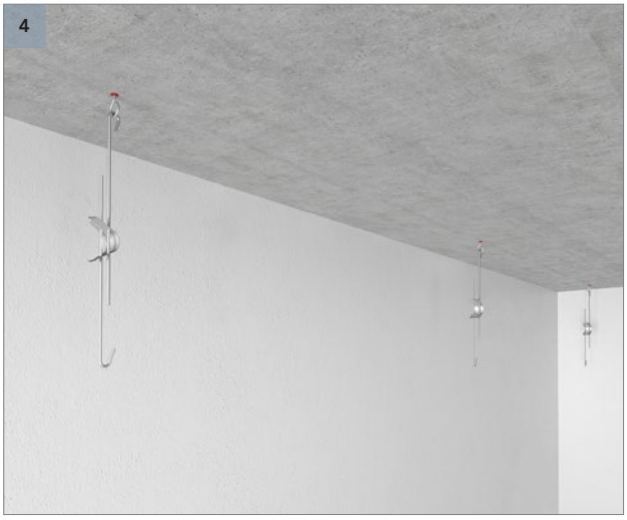
## 2. Rockfon Baffle T24 Solution




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

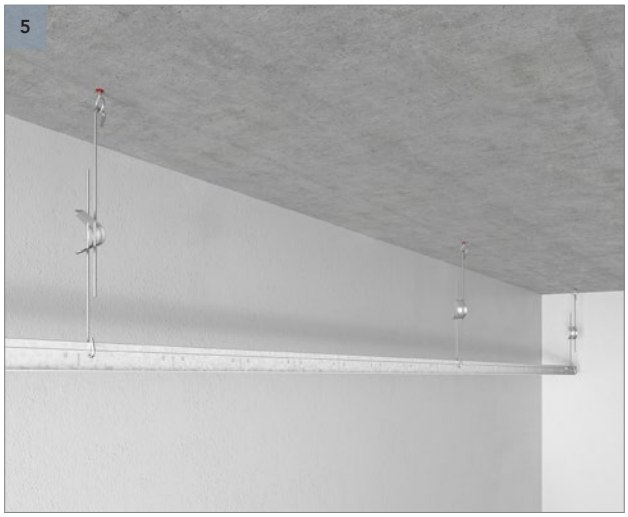

*Drill where you have marked drilling points.*


*Use fixings that are appropriate for the soffit. Insert a screw eye into the soffit.*



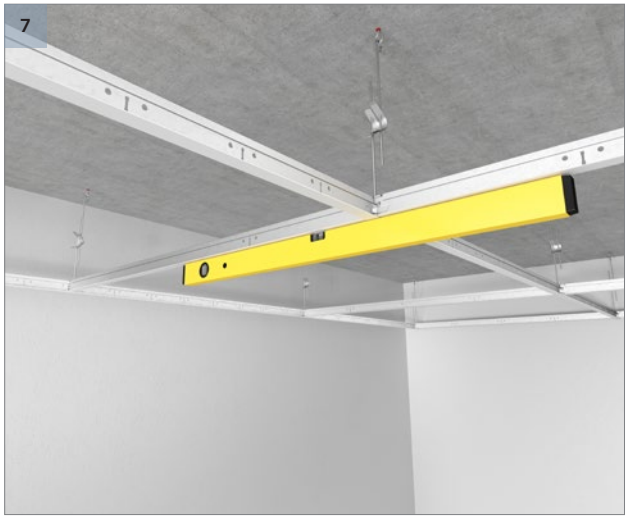

*Attach suspension hangers to the screw eyes.*

## 2. Rockfon Baffle T24 Solution




*Attach main runner T24 3600 to the bottom of the hanger.*


*Install cross tee Click T24 1200 mm to main runners every 1200 mm.*



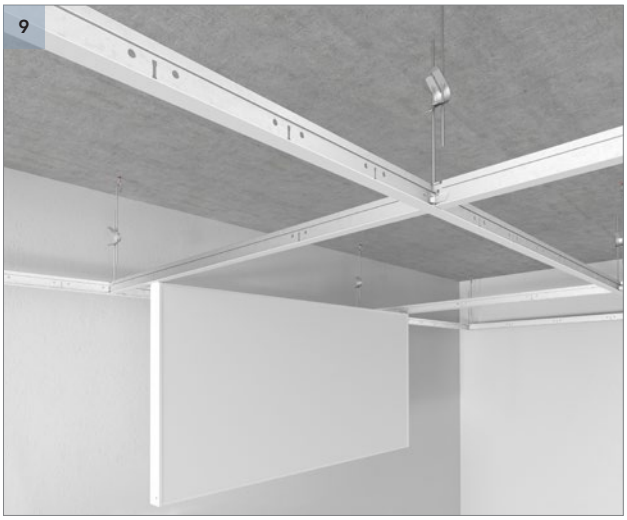

*Adjust the level of the T24 profiles. Ensure the grid is level before installing baffles.*

***Note:*** *if the T24 grid is not level, the baffles will not be level either!*

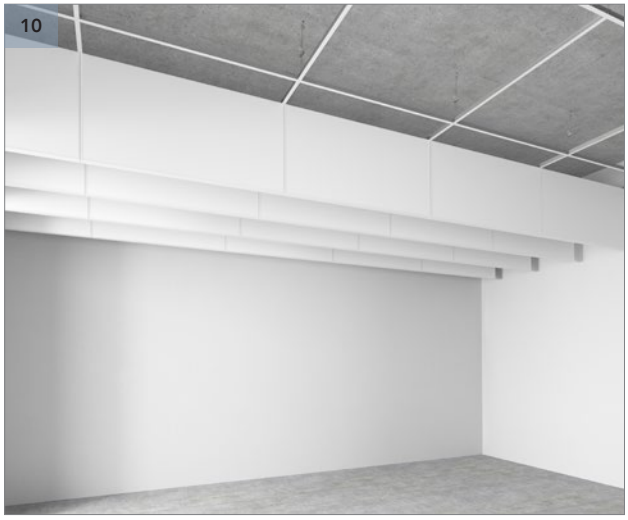

*Fix the Rockfon Universal Baffle to the suspended Chicago Metallic T24 grid.*

## 2. Rockfon Baffle T24 Solution


*Fix Rockfon Universal Baffles to the suspended T24 profiles. Ensure that both connecting tabs are clicked onto the table of the T24 profile. You can use the slots of the T24 profiles to align the Rockfon Universal Baffles.*



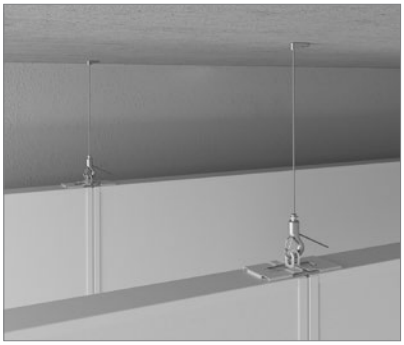

*Rockfon Universal Baffles suspended between T24 profiles.*




*Fix the remaining baffles to the grid and align them using the dimples on the end of the baffles.*


*Fix all the remaining baffles in the room.*

## 3. Rockfon Baffle Design/Classic Suspension Sets Solution

*Baffles in rows – common suspension for two Rockfon Baffles in a row.*

*Rockfon Universal Baffles – suspension eyelet opened to vertical position.*

*Dimples on the end of the baffles to ensure correct alignment.*

**3. Rockfon Baffle Design/Classic Suspension Sets Solution**

# System components and consumption guide*

| Baffles | Dimensions (mm) | Packing | Weight | Baffle row distance** | | |
|---|---|---|---|---|---|---|
| | | | | 1200 | 600 | 300 |
| Rockfon Universal Baffle 4F | 1200 x 600 x 50 | 6 pcs/box | 24.0 kg/box | 0.69 pcs/m² | 1.39 pcs/m² | 2.78 pcs/m² |
| | 1200 x 450 x 50 | 6 pcs/box | 19.2 kg/box | | | |
| | 1200 x 300 x 50 | 12 pcs/box | 30.3 kg/box | | | |
| | 1800 x 300 x 50 | 12 pcs/box | 18.0 kg/box | 0.46 pcs/m² | 0.93 pcs/m² | 1.85 pcs/m² |
| | 1800 x 600 x 50 | 6 pcs/box | 33.5 kg/box | | | |
| Rockfon Universal Baffle 2F | 1200 x 600 x 50 | 6 pcs/box | 20.2 kg/box | 0.69 pcs/m² | 1.39 pcs/m² | 2.78 pcs/m² |
| | 1200 x 450 x 50 | 6 pcs/box | 14.2 kg/box | | | |
| | 1200 x 300 x 50 | 12 pcs/box | 20.9 kg/box | | | |
| Accessories | | | | | | |
| ① Rockfon Baffle Design Suspension Set | | 12 pcs/box | 0.7 kg/box | 1 pc/baffle + 1 pc/row | | |
| ② Rockfon Baffle Classic Suspension Set | | 12 pcs/box | 0.6 kg/box | 1 pc/baffle + 1 pc/row | | |

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

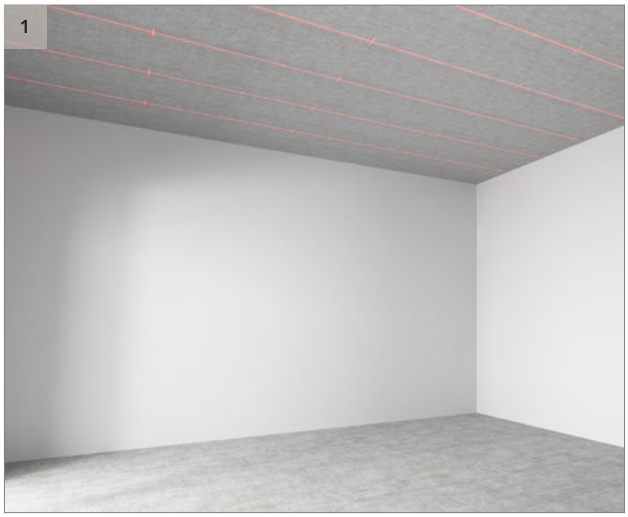
## Accessories

1. Design Suspension Set

2. Classic Suspension Set

## 3. Rockfon Baffle Design/Classic Suspension Sets Solution

1

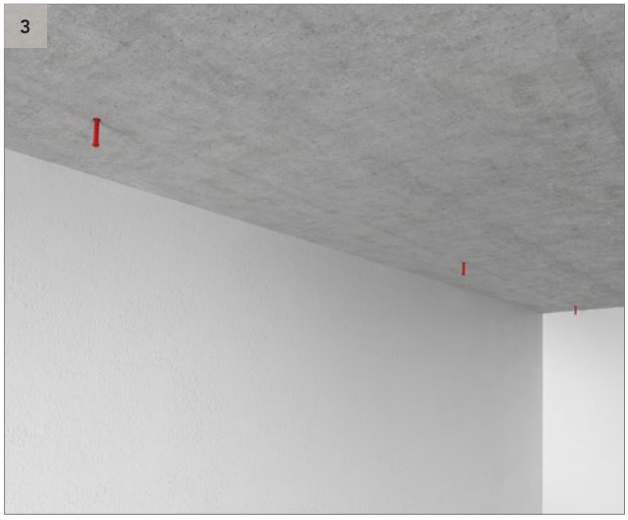


*Use a laser to symmetrically mark drilling points in a straight line. Mark drilling points every 1200 mm on the soffit.*

2

*Drill where you have marked drilling points.*

3



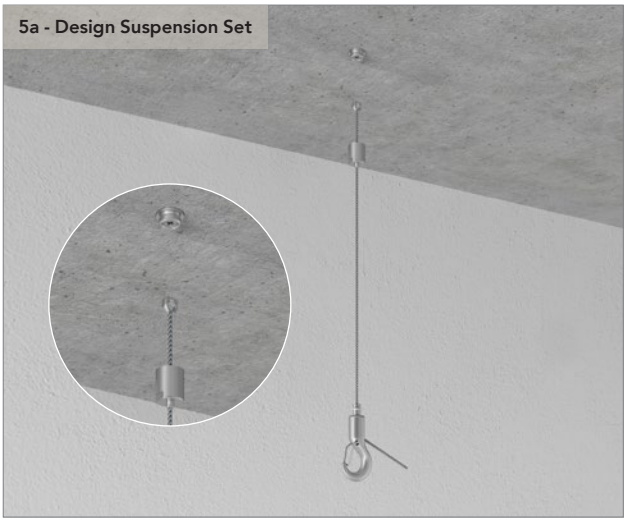
*Use fixings that are appropriate for the soffit.*

## 3. Rockfon Baffle Design/Classic Suspension Sets Solution

**4 - Design Suspension Set**

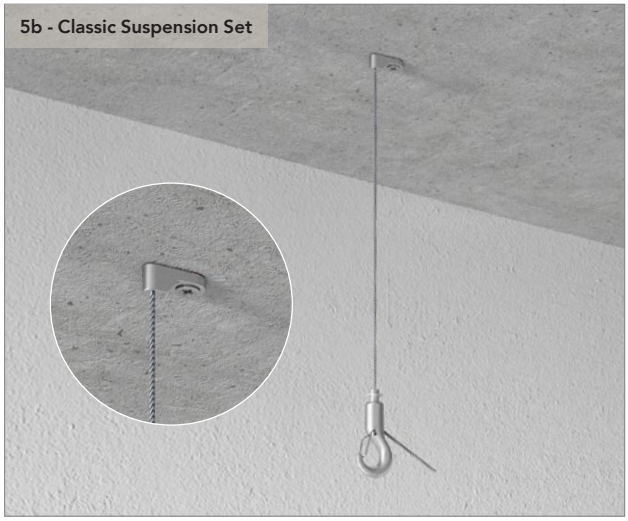
*Fix the Rockfon Baffle Design Suspension Set's upper part (the one with external M13 thread) to the soffit. Use the fixing screws appropriate to soffit's material and small enough for Rockfon Baffle Design Suspension Sets cylindrical cover (max. head diameter 12 mm).*

**5a - Design Suspension Set**



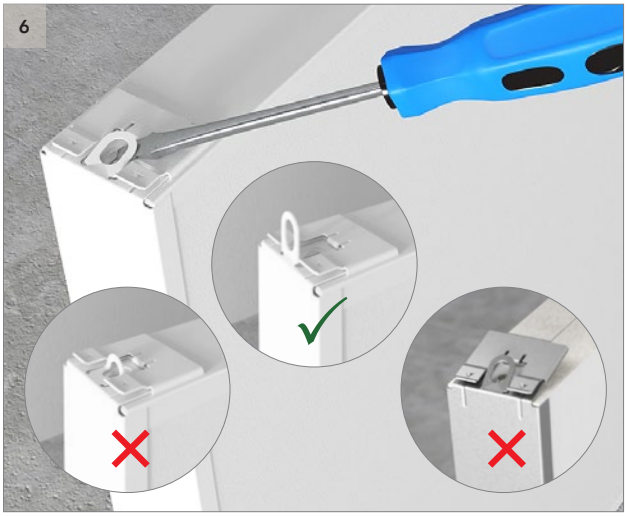
*Slide the wire cable from the Design Suspension Set through cylindrical cover, so the eyelet cable end is hidden inside. Screw it onto the M13 thread. You can attach the adjustable hook to bottom end of the wire cable.*

**5b - Classic Suspension Set**



*Fix the cable end with 6.5 mm eyelet to the soffit by fixing screw. You can attach the adjustable hook to the bottom end of the wire cable.*

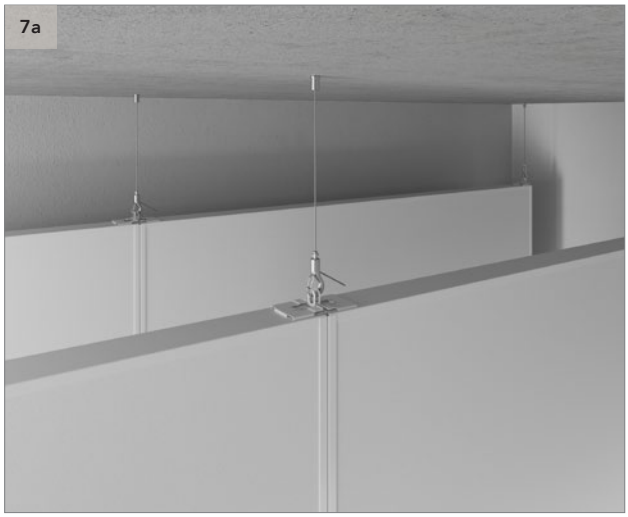
**6**



*Lift up the flat eyelet on the top of the Rockfon Universal Baffle.*
***Note: Ensure the eyelet is completely vertical.***

## 3. Rockfon Baffle Design/Classic Suspension Sets Solution

7a

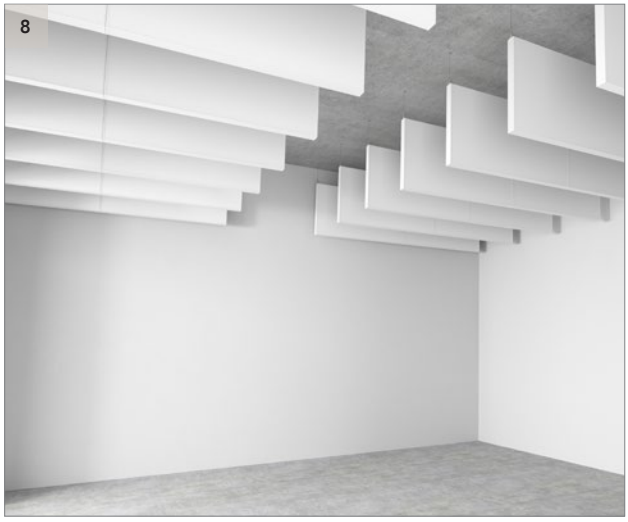


*Connect the baffles to the suspension sets by using the adjustable hook.*

7b

*Place a level on top or underneath the baffles to ensure their evenness. Levelling can be done by releasing the lock on the hook and pulling on the wire cable.*

8



*Fix all remaining baffles and align them in rows using the dimples on the ends.*

# 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 1800 x 600 mm baffles it's only possible to click the baffles on the main runners, when installing them perpendicular to the main runners. For 1800 x 600 mm baffles, the main runners should be positioned at 1800 mm centres.

For accurate 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.

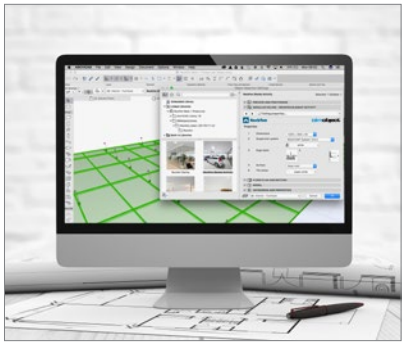
### Baffles

We recommend the use of clean nitrile or PU coated gloves when installing Rockfon Baffles in order to avoid finger fingerprint marks on the surface.

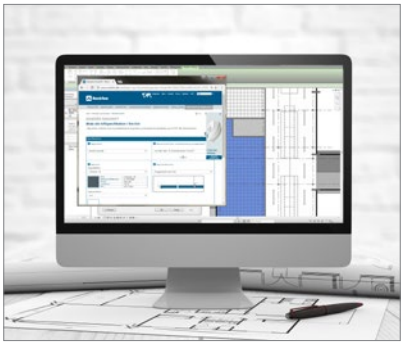
For an optimum work environment, we recommend installers always observe common work practices and follow the installation advice as shown on our packaging.

# Tools

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



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



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