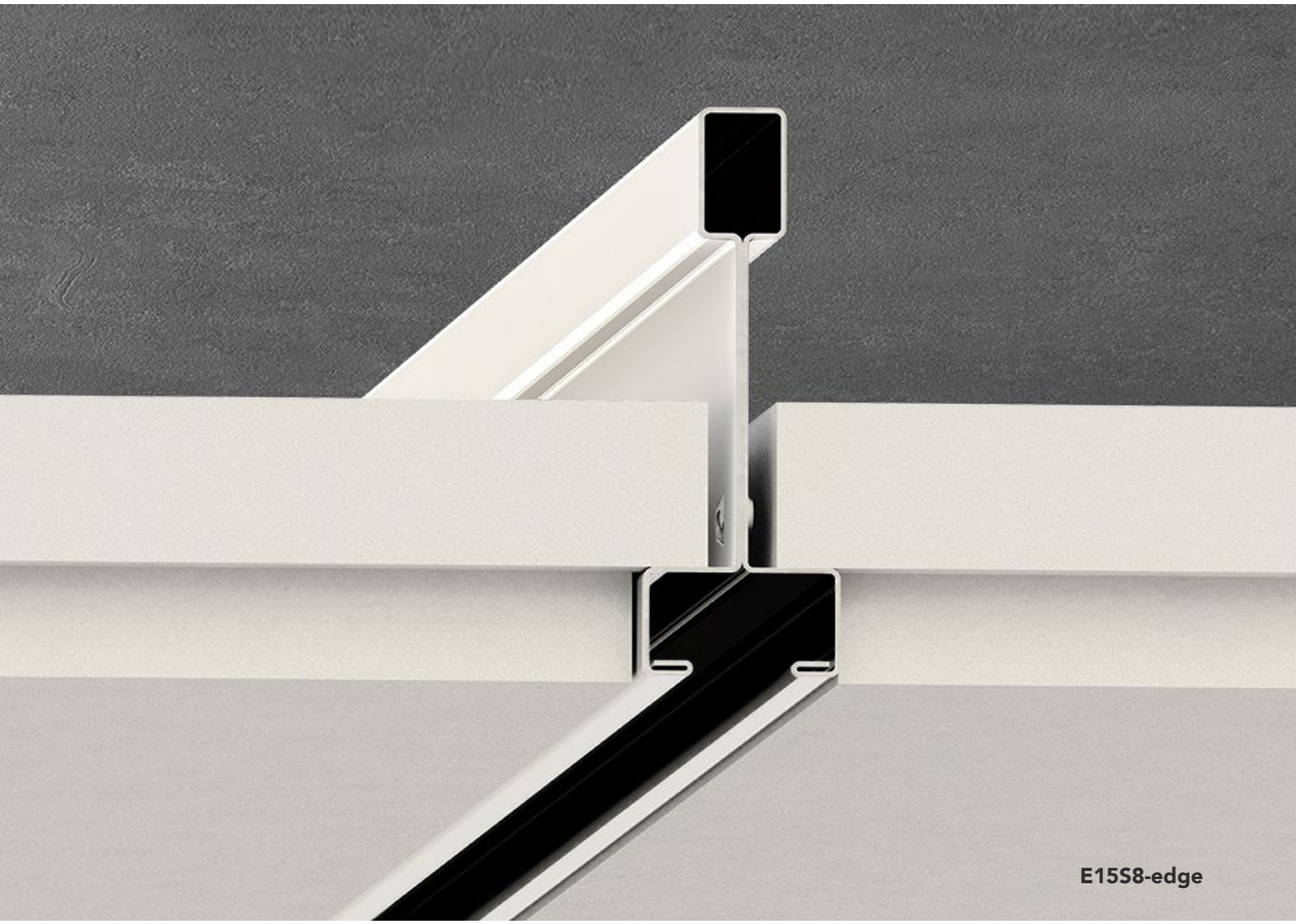
Rockfon

INSTALLATION GUIDE

Rockfon® System Ultraline E



Visible grid ceiling system
Aesthetical

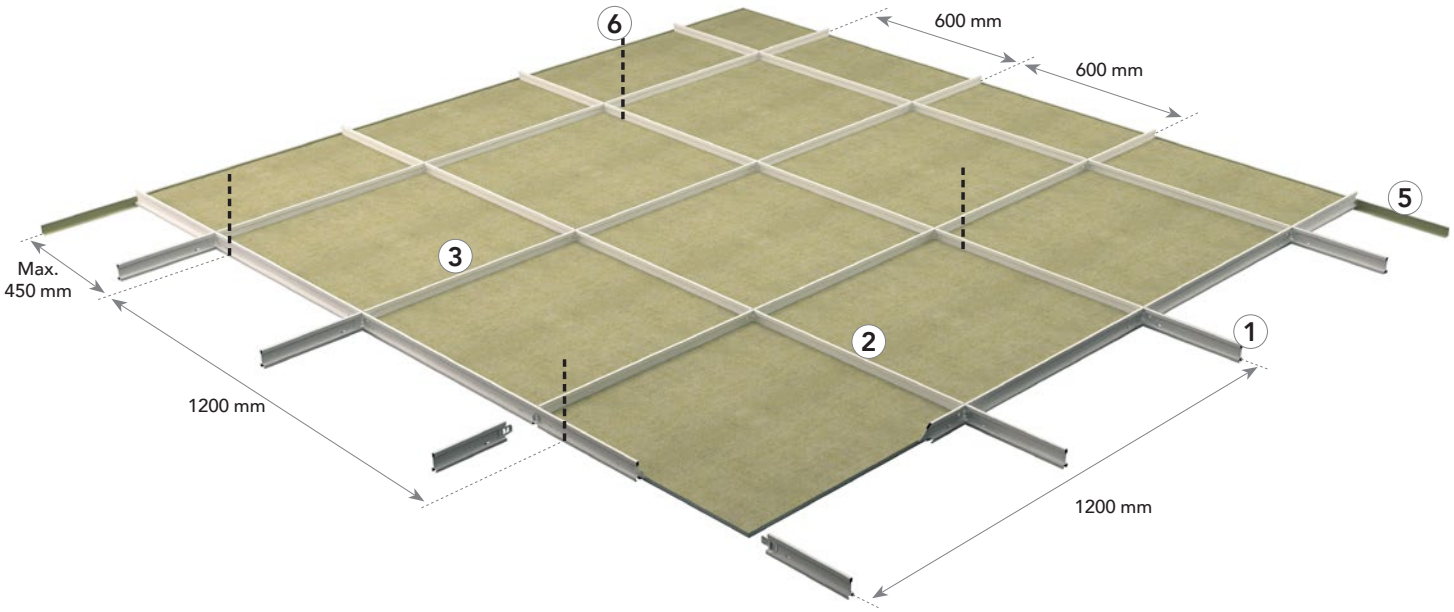
- Elegant ceiling expression highlighted by a narrow recess in the grid
- Design freedom with colours and contrast in two directions
- Every single tile is demountable for quick and easy access to installations
- Functional recess allows for the easy integration of partitions, track lighting and signage

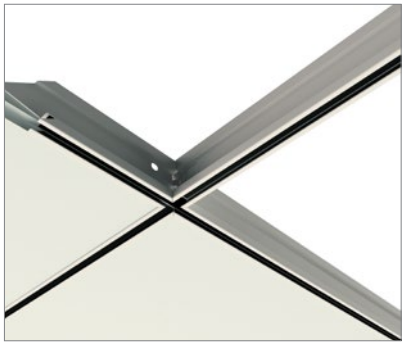
Sounds Beautiful

Description

Rockfon System Ultraline E is used to create a 15 mm visible grid ceiling system. It combines the Chicago Metallic Ultraline 3500 grid and Rockfon E edge (E15S8) tiles. The system can be installed either directly to the soffit or suspended at a suitable height, taking into account the minimum installation depth. Main runners and cross tees have a visible width of 15 mm highlighted by a narrow recess. All components are made from galvanised steel with a smooth, white surface or a wide range of colour combinations (e.g. white/black, grey/black, etc).

The narrow recess and crisply mitred intersections result in flawless and continuous lines and an aesthetically pleasing smooth and level appearance. Rockfon System Ultraline E allows easy integration of partitions, track lighting and signs by utilising the sliding T-head bolt or a PVC button slide.

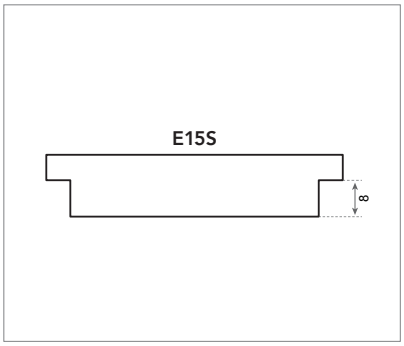




Sharp-looking mitred intersections.



The narrow centre recess creates flawless and continuous lines.



Tegular straight E edge tiles ensure quick installation and full demountability.

System components and consumption guide

Tile		Chicago Metallic Ultraline 3500			Wall angles		Accessories	
		1	2	3	4	5	6	7
-		Main runner 3600 mm	Cross tee 600 mm	Cross tee 1200 mm	Perimeter shadow wall angle trim	Perimeter wall angle trim 24 x 24	Suspension hanger	Special hanger
Dimension (mm)	**Consumption/m²**							
600 x 600	2.78 pcs/m²	0.83 lm/m²	1.66 lm/m²	0.83 lm/m²	1)	1)	0.70 pcs/m²	0.70 pcs/m²

1) Consumption depends on room size.

Tile - E15S8 Edge



Chicago Metallic Ultraline 3500

1. Main runner 3600 mm



2. Cross tee 600 mm



3. Cross tee 1200 mm



Wall angles

4. Perimeter shadow wall angle trim



5. Perimeter wall angle trim 24 x 24



Accessories

6. Suspension hanger



7. Special hanger



Performance



System load bearing capacity

-		Max. Load (kg/m²)	
Hanger distance (mm)	Dimensions (mm)	Max. 2.5 mm deflection	Max. 4.0 mm deflection
1200	600 x 600	9.8	16.3
1200	1200 x 600	10.7	17.6

The system´s load capacity is determined from a max. deflection of the individual components corresponding to 1/500 of the span or the cumulative deflection of all structural components which does not exceed 2.5 or 4 mm. The load bearing capacity is given as regularly distributed load in kg / m², the weight of the tile is not included.



Corrosion resistance

Class C (EN13964).



Demountability

Tiles mounted in Rockfon System Ultraline E are fully demountable.



Fire resistance

Rockfon System Ultraline E achieves 30 minutes in accordance with European test standards and national approvals. Please contact Rockfon for fire resistance documentation.

Compatible Tiles Overview

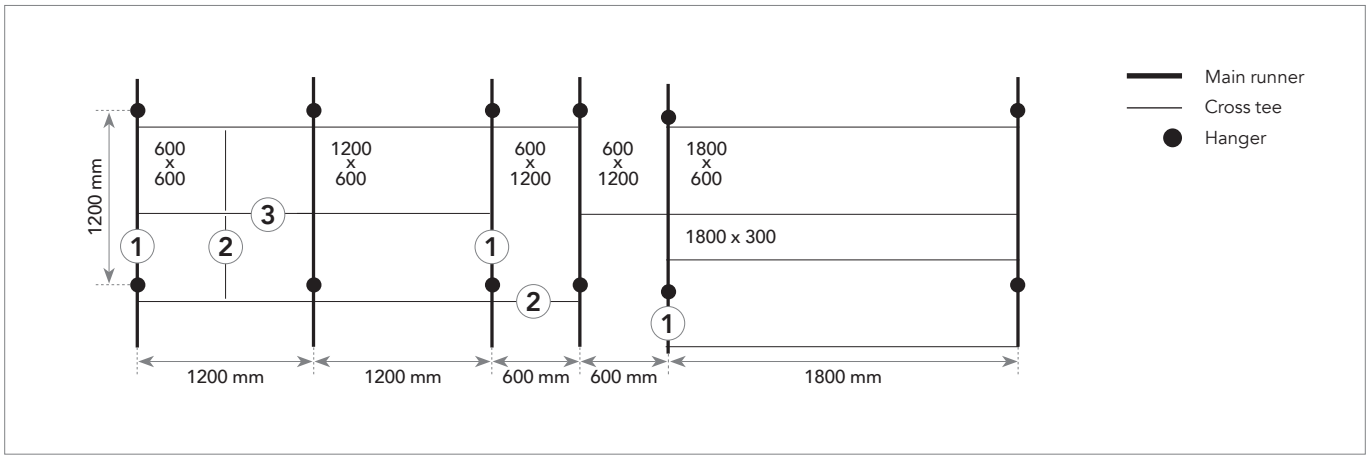
-		Dimensions (mm)			
Tiles	Thickness (mm)	600 x 600	1200 x 600	1800 x 600	2400 x 600
Rockfon Blanka	20-25	•	•	•	•
Rockfon Blanka dB 41	35	•	•		
Rockfon Blanka dB 43	40	•	•		
Rockfon Blanka dB 46	50	•	•		
Rockfon Tropic	15-20	•	•	•	•
Rockfon Artic+	15	•	•		

All Rockfon E15 straight edge tiles available in dimensions mentioned above can be installed in Rockfon System Ultraline E.

Grid Installation

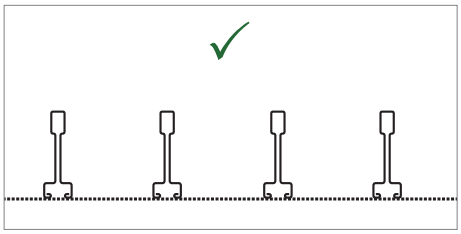
Grid layout and hanger location

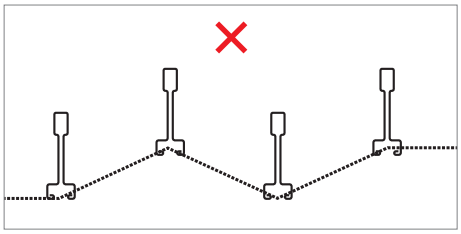
Rockfon E15S8 edge tiles can be installed in Rockfon System Ultraline E.



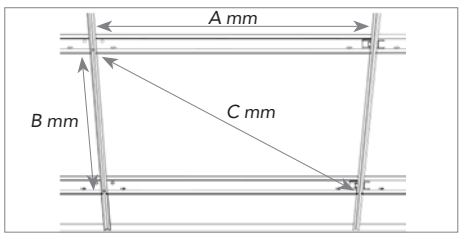
Installation requirements

During and after grid installation, it is important to check that the T profiles are perfectly aligned horizontally. A maximum level difference of +/- 1 mm is recommended between profiles and should not be accumulated. This tolerance is valid for all directions.





It is also important to check the squareness of the angles between the main runners and cross tees. This can be easily done by comparing the measurements of the two diagonals. See recommended tolerances on the drawings to the right.

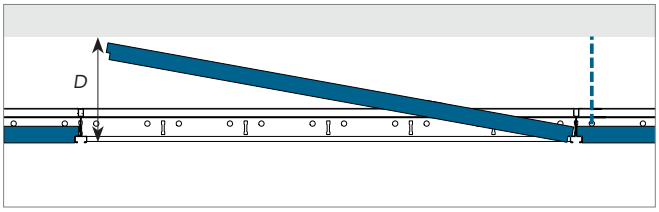


Dimensions (A x B)	Diagonal (C)	Tolerance
mm		
600 x 600	828.3	+/- 0.5
1200 x 600	1322.5	

Minimum installation depth (mm)

Tiles installed in Rockfon System Ultraline E are fully demountable. The installation depth is defined as the distance from the underside of the tile to the underside of the substrate, where the hangers are fixed. D is the minimum installation depth for easy tile installation and demountability.

Tile thickness	Module size	D
	mm	
15-20	600 x 600 1200 x 600	150
40	600 x 600 1200 x 600	220



Special products

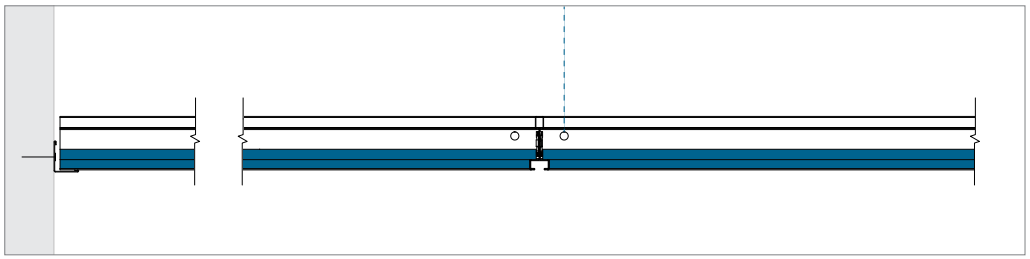
Ultraline main runners and/or cross tees can be made to order with special slot distances and/or cut-outs on one side or in a staggered pattern.



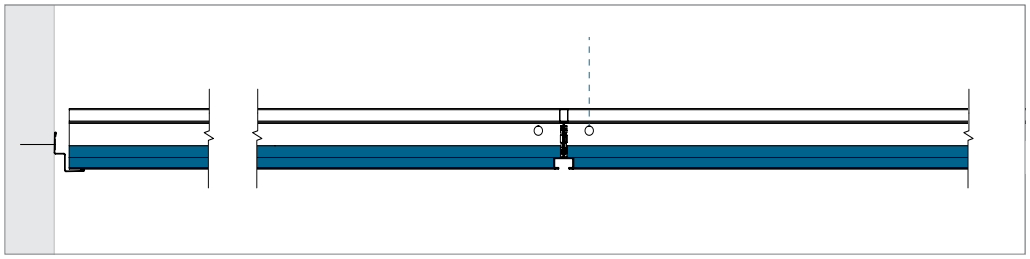
Ultraline main runners can be combined with special T15 cross tees in order to create a specific aesthetic look. Contact Rockfon for further details.

Perimeter Finish Options

Below are examples of perimeter finishing. Further details can be found on **www.rockfon.co.uk**.



Angle trim.



Shadow batten and angle trim.

Service integration

Rockfon ceiling tiles are easy to cut and therefore it is very easy to integrate services in our ceiling tiles. The cut-outs can be made with a simple utility knife.

When the system is load bearing, Rockfon recommends using a yoke or extra support arms that spread the weight of the service installation. The size of the yoke should not be bigger than module 600 x 600 mm and the use of extra hangers to overcome deflection in the ceiling system is strongly recommended. When using support arms to spread the weight of the installation, Rockfon recommends spanning maximum 600 mm.

When integrating (recessed) modular luminaires please take note of the tile design and its relationship to the grid. Please refer to drawing C below for general installation principles. Ideally, the type of luminaire should be chosen in order to create an aesthetically pleasing integration and level ceiling surface. 'Pull up' type fittings, with four short support arms - two on opposite sides, are recommended. The face of the tile sits approximately 7 mm below the table of grid. Ideally the integrated light fitting should have a degree of adjustability to ensure the face of the fitting is level with the tiles.

Planning

A thorough planning of the project will result in less re-work and less ceiling tile damages. Rockfon recommends discussing the project thoroughly and well in advance with other installers that have to work in or near the suspended ceiling. By doing so damaged ceiling tiles and dirty spots on the finished ceiling surface can be avoided, which reduces costs on the project.

Overview load bearing capacity

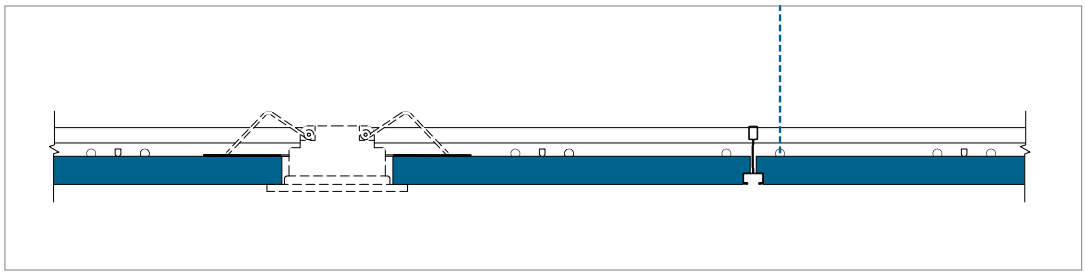
-	Weight of installations		
-	< 0.25 kg/pcs	0.25 ≥ 3.0 kg/pcs	> 3.0 kg/pcs
Small service integration; Spot- or downlight, speaker, ventilation etc.	Drawing A	Drawing B	Suspend separately
Big service integration; Downlight, speaker, ventilation, etc.	Drawing A	Drawing B	Suspend separately
Modular lighting- or ventilation fixture	Drawing C; System load bearing capacity (if evenly distributed over grid in kg/m²)		

When installing services in Rockfon System Ultraline E you should always follow local building regulations if more strict than the load bearing capacity guidelines Rockfon recommends in the above table.

Contact your local Rockfon technical service for more information on suitable lighting fixtures, accessories and the availability of CAD drawings of the different services integrated in Rockfon system Ultraline E. Special solutions with integrated services are, if available, shown on page 11 of this document; in the Tools section.

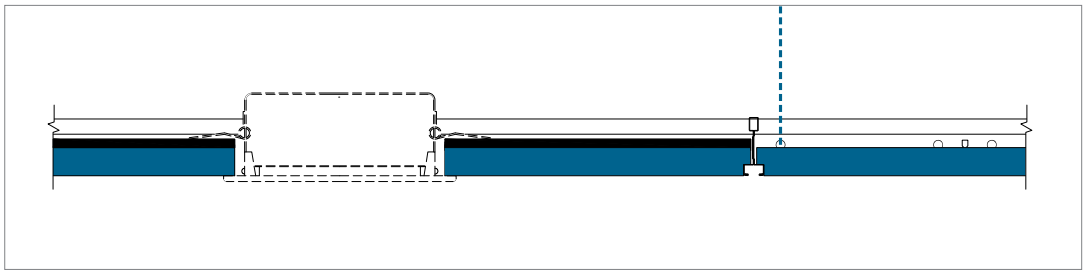
Drawing A

The integration of a spotlight, smoke detector, speaker, etc. (weighing < 0.25kg/pcs). Rockfon recommends installing spots and downlights centralised in the tile.



Drawing B

The integration of a downlight, spotlight, smoke detector, loud speaker, etc. (weighing 0.25 ≥ 3.0kg/pcs).
Use of a plywood yoke to spread the load on the back of the tile (as shown in the detail) or use of support arms to spread the load to the grid system is strongly recommended. The use of additional hangers to reduce deflection and a centralised installation of the lighting in the tile is strongly recommended.



Drawing C

The integration of a modular lighting fixture or air vent (evenly distributed over grid), weighing max. the system loading capacity. It is strongly recommended to suspend the service independently with additional hangers.



Specific Solutions

Bolt

This bolt can be fixed in the recess of the Ultraline profile and makes it possible to connect/fix partition walls/signs, etc by means of an M6 threaded wire.





Eye

This plastic eye can be installed in the recess of the Ultraline profile and makes it possible to hang a sign or other advertisements underneath it.





Cut-out cover

In case a cut out in the Ultraline profile is not needed, this accessory covers the pre-made cut out.





General installation recommendations

Junction between ceiling and wall or other vertical surface

The perimeter trim should be fastened to vertical surfaces at the required level using appropriate fixings at every 300 mm. Ensure that butt joints between adjoining lengths of trim are neat and that the trim is free from kinks and remains true and level. For the best aesthetics, use as long a length of trim as possible. The minimum recommended cut length is 300 mm.

Timber trims, timber shadow battens and metal

Shadow mouldings should not be used with fire resisting/protecting ceilings.

Junction between ceiling and curved vertical surface

The use of a preformed curved perimeter trim is the most appropriate method. Rockfon can provide details of curved perimeter trims on request.

Corners

Perimeter trims should be neatly mitred at all corner joints. Overlap mitres are acceptable on metal trims on internal corner joints unless specified otherwise.

Suspension grid

Unless specified otherwise, the ceiling should be set out symmetrically and where possible, perimeter tiles should be greater than 200 mm in width. The hangers should be fastened with appropriate top fixings and to the main runners at 1200 mm centres (or less if greater load bearing capacity is required).

Main runners should be positioned at 1200 mm centres for 600 x 600 mm. For proper grid installation, make sure the profiles are perfectly aligned horizontally and diagonals of modules are equal (see requirements and tolerances on page 5). Main runner joints should be staggered and there should be a hanger positioned within 150 mm from coupling 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. When using direct hangers, a fixing nail should be used to lock the hanger on to the bulb of the main runner.

Tiles

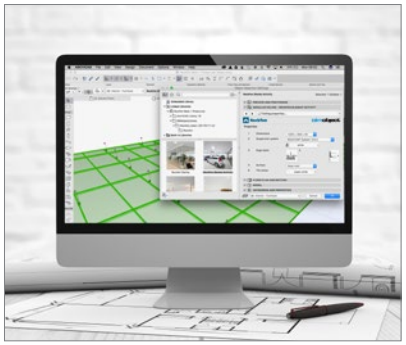
We recommend the use of clean nitrile or PU coated gloves when installing Rockfon tiles in order to avoid fingerprint marking on the surface. Cutting is made easy with a sharp knife.

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

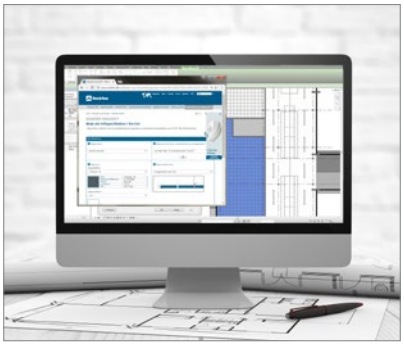
Note! Certain smooth matt surfaces are directional. To ensure consistency of the finished ceiling, it is important that all tiles are installed in one direction indicated by the arrow printed on the back of each tile.

Tools

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



For further information visit the CAD library.



Generate specification texts for our products.



Explore our vast library of reference projects.

Sounds Beautiful

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