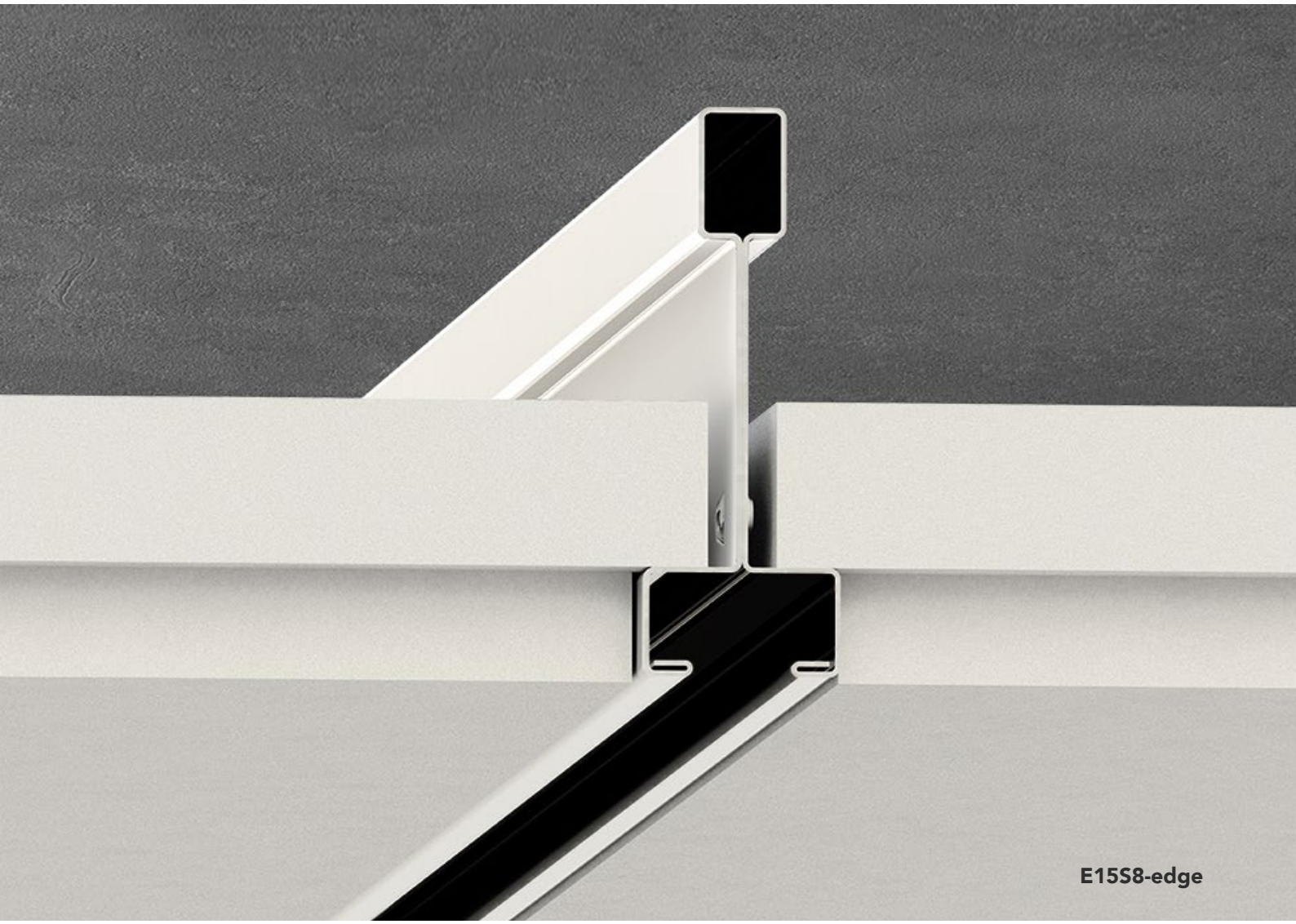
Rockfon

INSTALLATION GUIDE

# Rockfon® System Ultraline E™




Visible grid ceiling system
Aesthetical

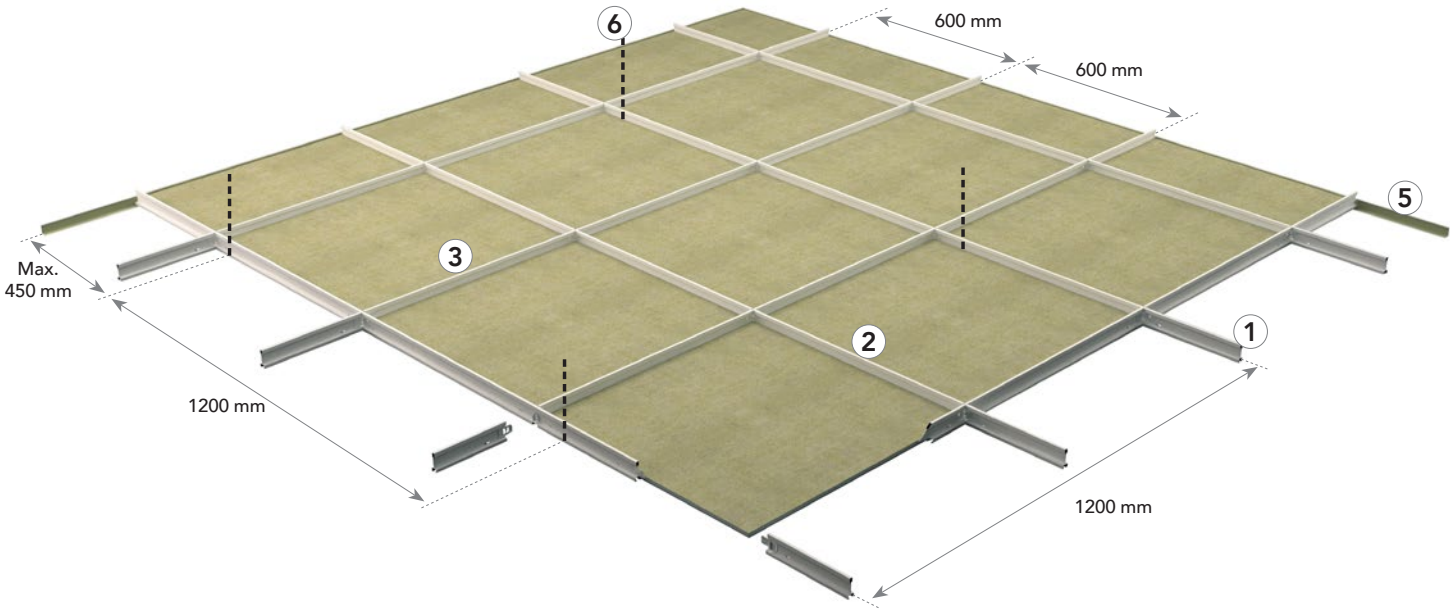
- Elegant ceiling expression highlighted by a narrow groove in the grid
- Design freedom with colours and contrast in two directions
- Every single tile is demountable for easy and fast access to installations
- Functional system for attachment of billboards and safety messages

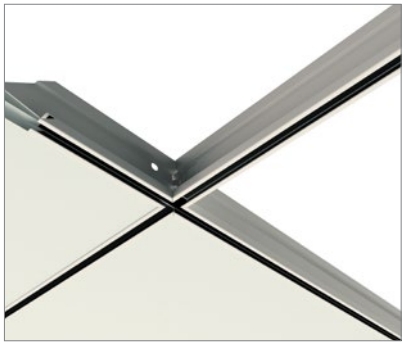
Sounds Beautiful

# 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 E (E15S8) edge Rockfon tiles**.** The system can be mounted either directly to the soffit or suspended at a suitable height, taking into account the minimal installation depth. Main runners and cross tees have a visible width of 15 mm highlighted by a narrow groove. All components are made from galvanized steel with a smooth, white surface or a wide range of color combinations (e.g. white/black, grey/black, etc).

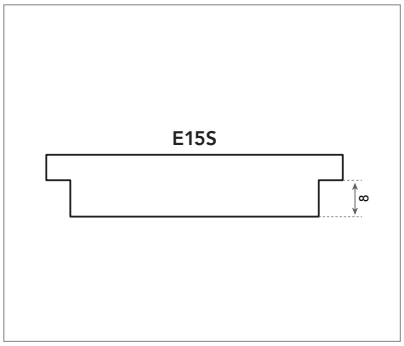
The slender center regress and crisply mitered intersections result in flawless and continuous lines and an aesthetically pleasing smooth and level appearance. Rockfon System Ultraline E allows easy integration of partitions, track lighting and signs by utilizing the sliding T-head bolt or a PVC button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



*Crisply mitered intersections.*

*The center regress result in flawless and continuous lines.*




*Tegular straight E15S8 edge ensuring fast mounting 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 | W Shadow moulding wall angle | 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

*There is also a 1200 mm long cross tee without grooves and cutouts in the middle of its length. This is recommended when using ceiling tiles 1200 x 600 mm.*

## Wall angles

4. W Shadow moulding wall angle

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 | 675 x 675 | 6,5 | 10,9 |
| 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 – it is the weight of the tile plus any additional items.*

## Corrosion resistance

Class C (EN13964).

## Demountability

Tiles mounted in Rockfon System Ultraline E are fully demountable.

## Fire resistance

Some Rockfon ceiling systems have been tested and classified in accordance with European norm EN 13501-2 and/or national norms. Please contact Rockfon.

# Compatible Tiles Overview

Rockfon System Ultraline E is available with the following Rockfon tiles:

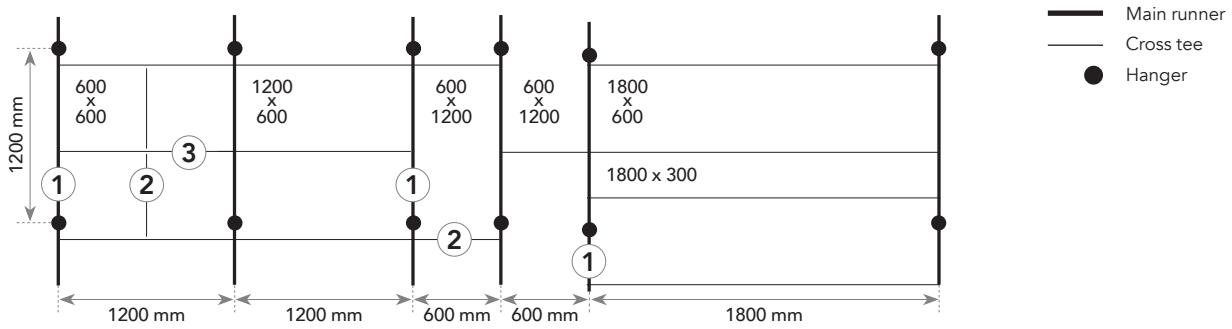
| - | | Dimensions (mm) | |
|---|---|---|---|
| Tiles | Thickness (mm) | 600 x 600 | 1200 x 600 |
| Rockfon Blanka® | 20 | • | • |
| Rockfon® Sonar® | 20 | • | • |
| Rockfon® Tropic™ | 15 | • | • |
| Rockfon® Koral™ | 15 | • | • |
| Rockfon® Color-all® | 20 | • | • |
| Rockfon® MediCare Standard™ | 15 | • | |

*All Rockfon E15S8 edge tiles available in dimensions mentioned above can be installed in Rockfon System Ultraline E.*

# Grid Installation

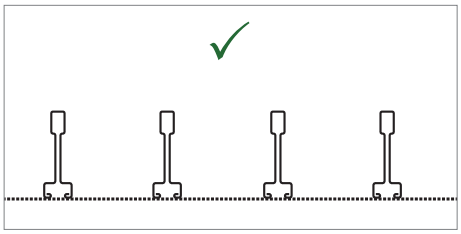
## Grid layout and hanger location

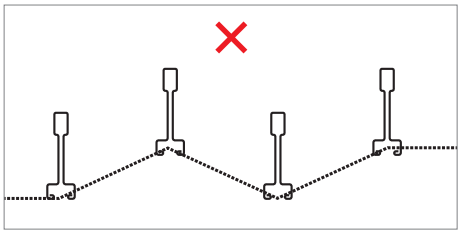
Rockfon E edge tiles can be installed in Rockfon System Ultraline E.



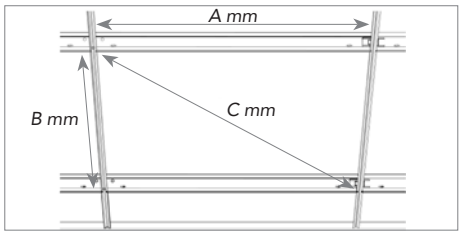

## Installation requirements

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 added. 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.

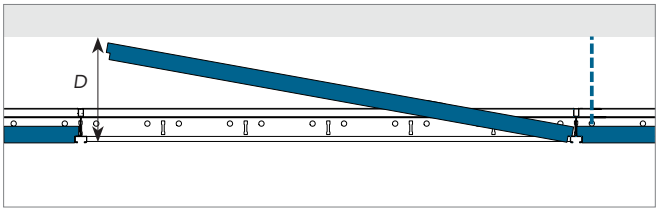



| Dimensions (A x B) | Diagonal (C) | Tolerance |
|---|---|---|
| mm | | |
| 600 x 600 | 828,3 | +/- 0,5 |
| 1200 x 600 | 1322,5 | |

# Minimum installation depth (mm)

Tiles mounted in Rockfon System Ultraline E give full demountability. 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 | Dimensions | D |
|---|---|---|
| | mm | |
| 15-20 | 600 x 600<br>1200 x 600 | 150 |
| 40 | 600 x 600<br>1200 x 600 | 220 |



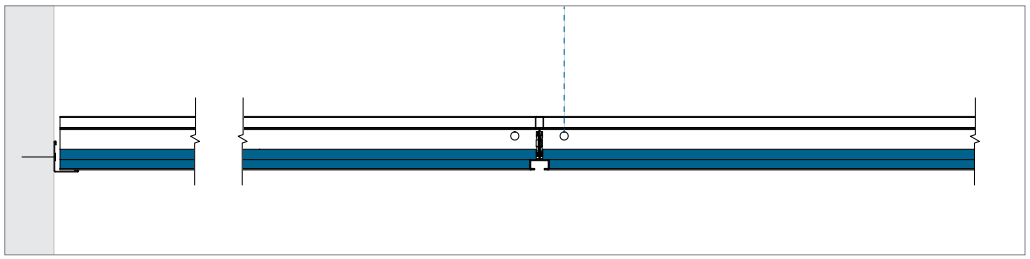

# Feasibility for special products

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

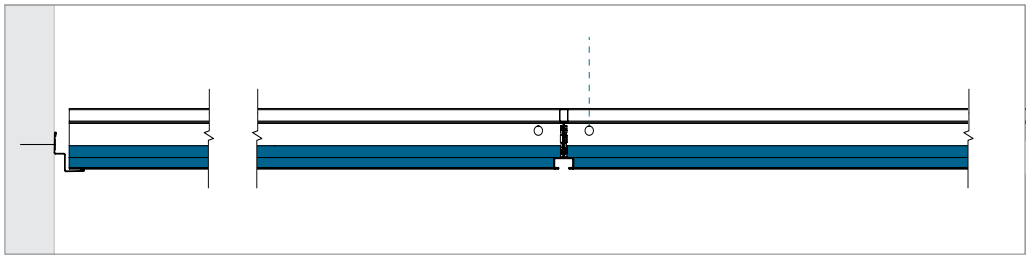
Ultraline main runners can be combined with special T15 cross tees in order to create a specific aesthetic look. Contact Rockfon for further details.

# Perimeter Finish Options

Below are examples of perimeter finishing. Further details can be found on **cee.rockfon.international**



*Angle trim.*



*Shadow batten and angle trim.*

**Note:** *Tiles cut lengthwise to the wall profile should be secured against shifting with a wedge or the system wall spring FIXT.*

# Service integration

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

When the system is installed to bear load, 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 and the usage of extra hangers to overcome deflection in the ceiling system.

When installing a modular lighting fixture in Rockfon system Ultraline E please be aware of the special edge design and module size of this solution. Because of the suspension grid design, a special type of luminaire should be chosen in order to create an esthetically pleasing and well leveled ceiling surface.

## Planning

A proper planning of the jobsite will result in less re-work and less ceiling tile damages. Rockfon recommends discussing the jobsite planning 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 jobsite.

## Overview load bearing capacity

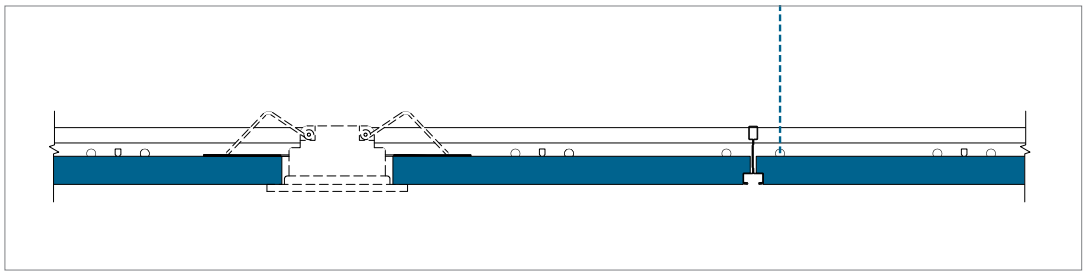
| - | Weight of installations | | |
|---|---|---|---|
| - | < 0,25 kg/pcs | 0,25 ≥ 3,0 kg/pcs | > 3,0 kg/pcs |
| Small service integration;<br>Spot- or downlight, speaker, ventilation etc. | Drawing A | Drawing B | Suspend separately |
| Big service integration;<br>Downlight, speaker, ventilation, etc. | Drawing A | Drawing B | Suspend separately |
| Modular lighting- or ventilation fixture | Drawing C;<br>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 constraints 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; ‘Tools’.

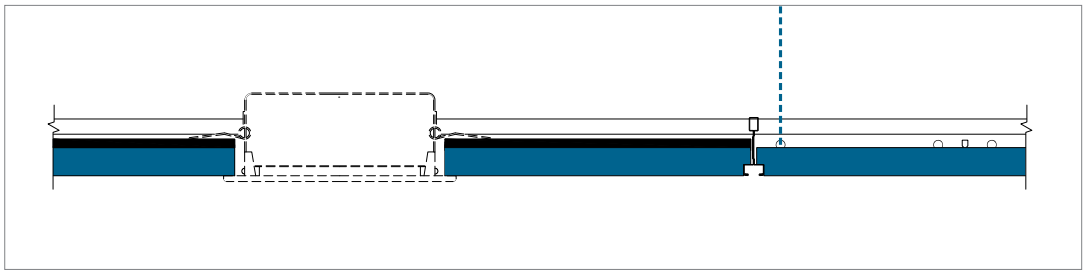
## Drawing A

The integration of a spotlight, smoke detector, speaker, etc. (weighing < 0,25 kg/pcs).



## Drawing B

The integration of a down-, spotlight, smoke detector, loud speaker, etc. (weighing 0,25 ≥ 3,0 kg/pcs). Usage of a plywood yoke to spread the load on the back of the tile (as shown in the detail) or usage of support arms to spread the load to the grid system is strongly recommended. The use of extra hangers to avoid deflection 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 integrated surface separately with extra 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 a M6 threated wire.

### Eye

This plastic clip 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 replace by every 300-450 mm centres. 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 with greater load).

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

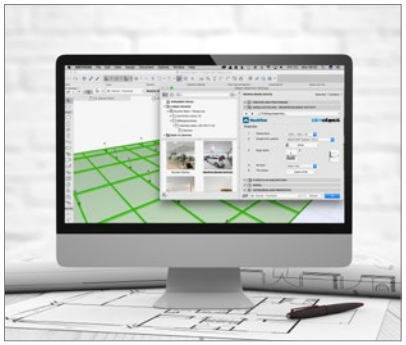
It is recommended to use clean nitrile or PU coated gloves when mounting Rockfon tiles in order to avoid finger prints and pollution of the surface. Cutting is made easily with a sharp knife. All off-cuts and holes must be treated according to local Building Regulations.

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

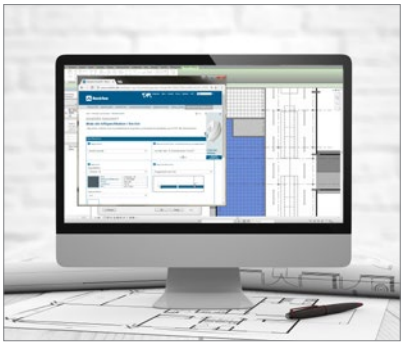
**Note!** Certain smooth matt surfaces are directional. To ensure consistency of the finished ceiling, it is important that all tiles are mounted in one direction indicated by the arrow printed on the back of each tile.

# Tools

Rockfon has developed specific tools that are available on **cee.rockfon.international**



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



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