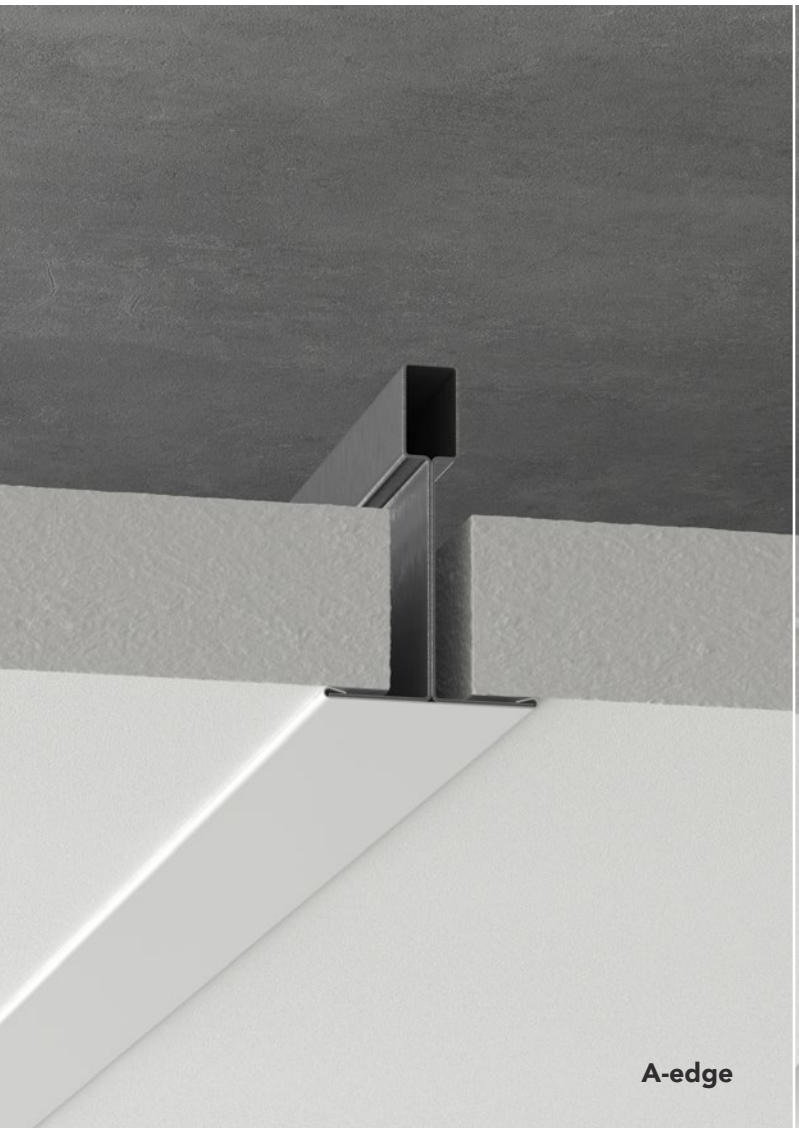
Rockfon

INSTALLATION GUIDE

Rockfon® System T24 A, E





Visible/Semi-concealed ceiling system
Standard

- Ceiling system with a 24 mm wide visible grid with A edge tiles or recessed with E edge tiles
- Easy and quick installation
- Ease of service integrations due to 38 mm equal height main runners and cross tees
- Every tile is demountable and fewer hangers allow easy access to the plenum

Sounds Beautiful

Description

Rockfon System T24 A, E is used – depending on the choice of tile – to create a semi concealed (E-edge) or visible (A-edge) grid ceiling system.

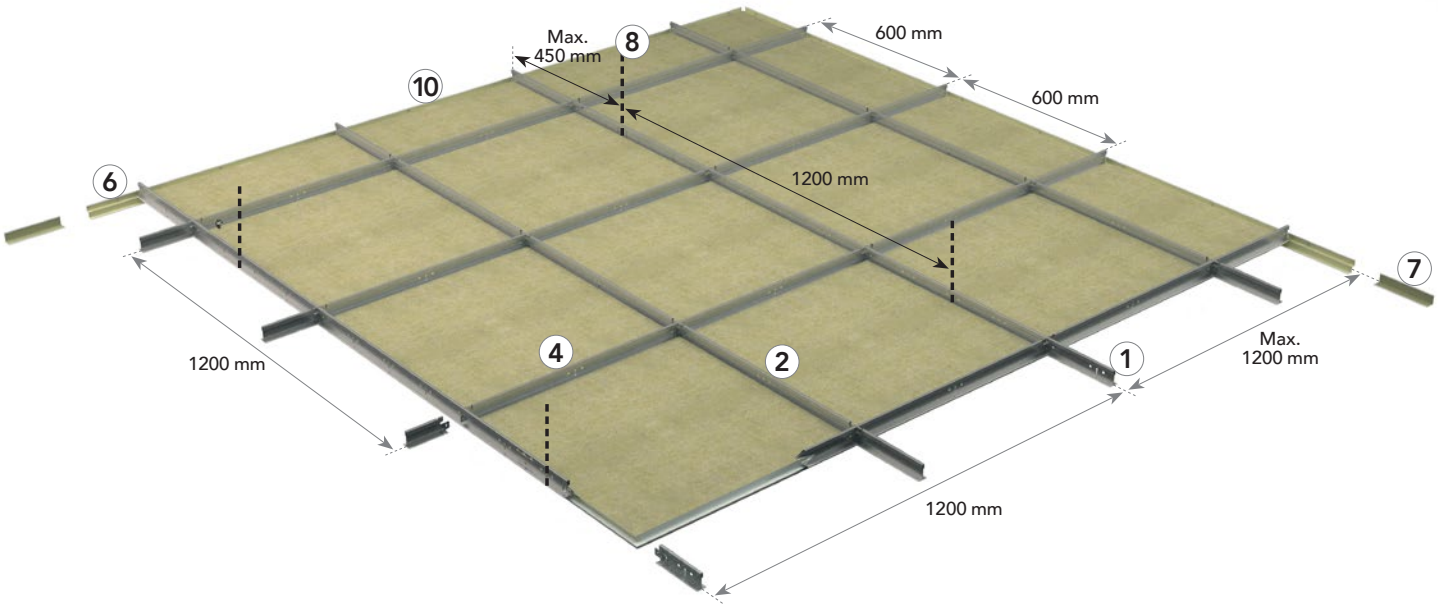
The system can be either installed as a suspended ceiling at the desired height using **Chicago Metallic T24 Click 2890** or mounted directly to the soffit using direct fixing brackets.

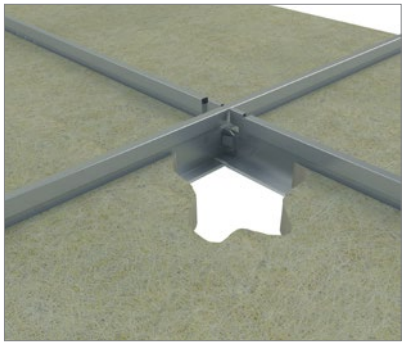
In Rockfon System T24 A, E the Chicago Metallic T24 Click 2890 grid comes with a click system providing easy and fast mounting and demounting.

The T profiles have a width of 24 mm, and all components are made of galvanised steel with a smooth, white surface.

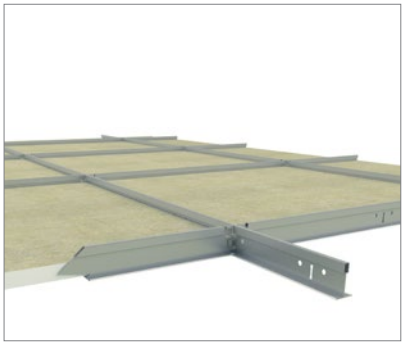
The system includes main runners, cross tees, hangers and other necessary components. The main runners and cross tees have a uniform height of 38 mm, ensuring stability and easier integration of services. The system provides a full demountability of all mounted tiles. Rockfon A-edge and E-edge tiles are available in different module sizes (see overview on page 3).

The grid layout to be used depends on the choice of the module size (see layout possibilities on page 5).

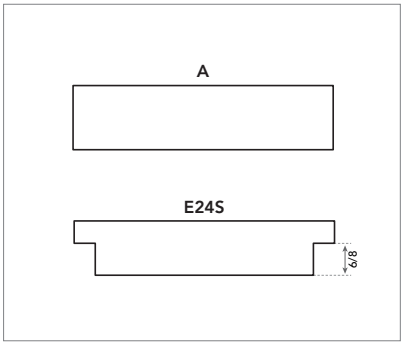




Click system providing easy and fast mounting and demounting.



38 mm full height main runners and cross tees for stability and easy service integration.



A and E edges ensuring fast mounting and full demountability.

System components and consumption guide

Tile		Chicago Metallic T24 Click 2890					Wall angles		Accessories		
		1	2	3	4	5	6	7	8	9	10
A, E edge		Main runner T24 Click/ Hook 3600/ 3750/3375	Cross tee T24 Click 600/325/675	Cross tee T24 Click 900	Cross tee T24 Click 1200/ 1250/1350	Cross tee T24 Click 1500/1800	W Shadow moulding wall angle	Perimeter wall angle trim	Hanger	Direct fixing bracket	Wall spring fixt
Dimensions (mm)	**Consumption/m²**										
600 x 600	2,78 pcs/m²	0,83 lm/m²	0,83 lm/m²	-	1,67 lm/²	-	1)	1)	0,7 pcs/m²	0,7 pcs/m²	1)
1200 x 600	1,39 pcs/m²	0,83 lm/m²	-	-	1,67 lm/²	-	1)	1)	0,7 pcs/m²	0,7 pcs/m²	1)
1500 x 600	1,11 pcs/m²	0,67 lm/m²	-	-	-	1,67 lm/m²	1)	1)	0,56 pcs/m²	0,56 pcs/m²	1)
1800 x 600	0,93 pcs/m²	0,56 lm/m²	-	-	-	1,67 lm/m²	1)	1)	0,46 pcs/m²	0,46 pcs/m²	1)
2100 x 600	0,79 pcs/m²	1,67 lm/m²	0,48 lm/m²	-	-	-	1)	1)	1,39 pcs/m²	1,39 pcs/m²	1)
2400 x 600	0,69 pcs/m²	1,67 lm/m²	0,42 lm/m²	-	-	-	1)	1)	1,39 pcs/m²	1,39 pcs/m²	1)
1200 x 1200	0,69 pcs/m²	0,83 lm/m²	-	-	0,83 lm/m²	-	1)	1)	0,7 pcs/m²	0,7 pcs/m²	1)
625 x 625	2,56 pcs/m²	0,8 lm/m²	0,8 lm/m²	-	1,6 lm/m²	-	1)	1)	0,64 pcs/m²	0,64 pcs/m²	1)
1250 x 625	1,28 pcs/m²	0,8 lm/m²	-	-	1,6 lm/m²	-	1)	1)	0,64 pcs/m²	0,64 pcs/m²	1)
1500 x 625	1,10 pcs/m²	0,67 lm/m²	-	-	-	1,6 lm/m²	1)	1)	0,53 pcs/m²	0,53 pcs/m²	1)
1800 x 625	0,89 pcs/m²	0,56 lm/m²	-	-	-	1,6 lm/m²	1)	1)	0,44 pcs/m²	0,44 pcs/m²	1)
2100 x 625	0,76 pcs/m²	1,6 lm/m²	0,48 lm/m²	-	-	-	1)	1)	1,28 pcs/m²	1,28 pcs/m²	1)
2400 x 625	0,67 pcs/m²	1,6 lm/m²	0,42 lm/m²	-	-	-	1)	1)	1,28 pcs/m²	1,28 pcs/m²	1)
675 x 675	2,19 pcs/m²	0,74 lm/m²	0,74 lm/m²	-	1,48 lm/m²	-	1)	1)	0,55 pcs/m²	0,55 pcs/m²	1)
900 x 900	1,23 pcs/m²	1,11 lm/m²	-	1,11 lm/m²	-	-	1)	1)	0,93 pcs/m²	0,93 pcs/m²	1)
1200 x 900	0,93 pcs/m²	0,83 lm/m²	-	-	1,11 lm/m²	-	1)	1)	0,7 pcs/m²	0,7 pcs/m²	1)
1800 x 1200	0,46 pcs/m²	0,83 lm/m²	-	-	0,56 lm/m²	-	1)	1)	0,7 pcs/m²	0,7 pcs/m²	1)
2400 x 1200	0,35 pcs/m²	0,83 lm/m²	-	-	0,42 lm/m²	-	1)	1)	0,7 pcs/m²	0,7 pcs/m²	1)

1) Consumption depends on room size.

Tiles - A and E edge



A edge



E edge

Chicago Metallic T24 Click 2890

1. Main runner T24 Click/Hook 3600/3750/4050



2. Cross tee T24 Click 600/625/675



3. Cross tee T24 Click 900



4. Cross tee T24 Click 1200/1250/1350



5. Cross tee T24 Click 1500/1800



Wall angles

6. W Shadow moulding wall angle



7. Perimeter wall angle trim

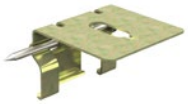


Accessories

8. Hanger



9. Direct fixing bracket



10. Wall spring fixt



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	9,9	16,5
	1200 x 300	14,5	24,1
	1200 x 600	10,9	17,9
	1500 x 600	6,3	10,5
	1800 x 300	5,1	8,9
	1800 x 600	3,3	5,7
	2100 x 600	32,9	34,7*
	2400 x 600	31,3	34,5*
1250	625 x 625	8,0	13,3
	1250 x 625	8,8	14,5
	1500 x 625	5,7	9,6
	1800 x 625	3,0	5,2
	1875 x 625	2,6	4,5
	2100 x 625	27,0	34,3*
	2400 x 625	25,8	30,0*
1350	675 x 675	5,2	8,8
	1350 x 675	5,8	9,7
1200	900 x 900	18,6	30,4*
	1200 x 900	8,6	14,2
	1200 x 1200	7,2	11,7
	1800 x 1200	5,3	8,7
	2400 x 1200	4,2	6,9

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.

** Max. weight defined in function of max. allowable load of quick hangers.*

Corrosion resistance

Class B (EN13964)

Demountability

Tiles mounted in Rockfon System T24 A, E are fully demountable.

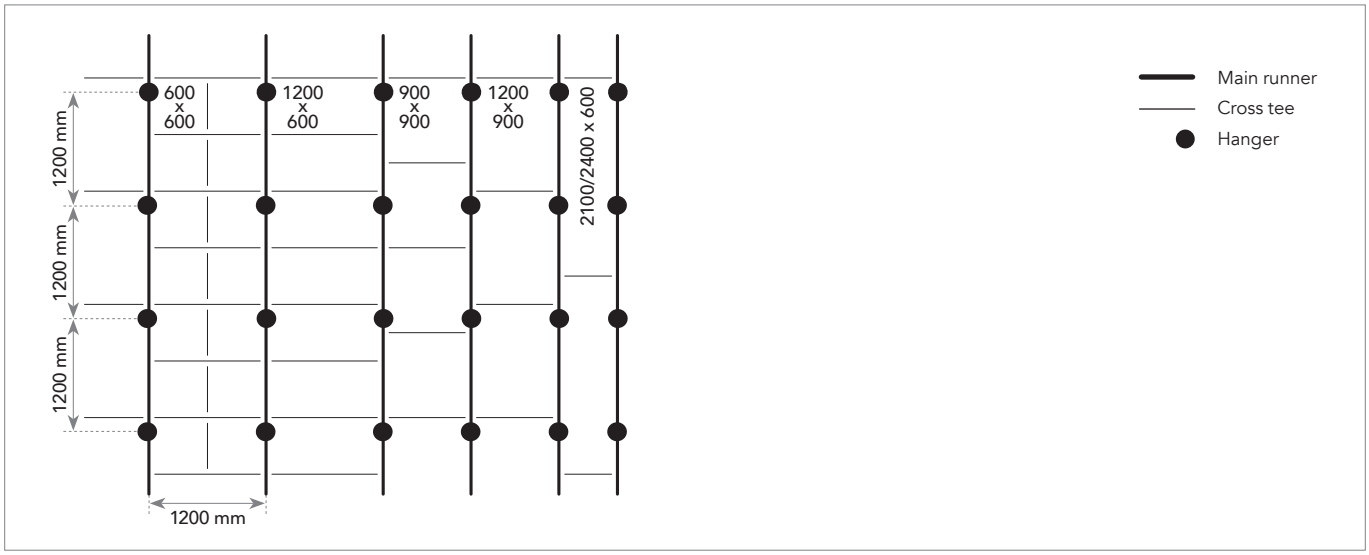
Fire resistance

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

Grid Installation

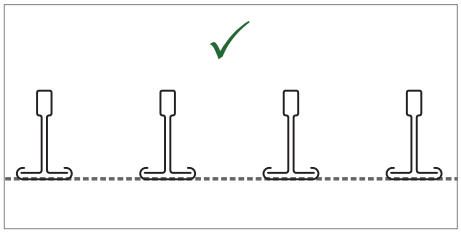
Grid layout and hanger location

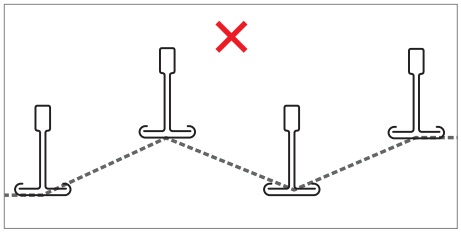
Rockfon A and E edge tiles can be installed in Rockfon System T24 A, E.
Some layout options are shown below depending on the size of the tile.



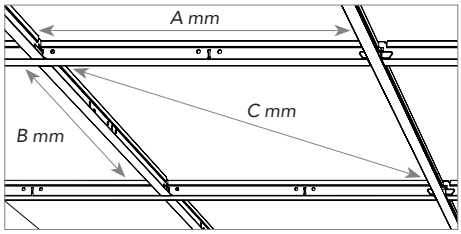
Installation requirements

During and after grid installation, it is important to check that 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 table to the right.



Dimensions (A x B)	Diagonal (C)	Tolerance
mm		
600 x 600	814,6	+/- 1,0
1200 x 600	1309,5	
1500 x 600	1584,4	
1800 x 600	1867,1	
2100 x 600	2154,4	
2400 x 600	2444,8	
625 x 625	849,9	
1250 x 625	1365,4	
1500 x 625	1593,7	
1800 x 625	1874,9	
2100 x 625	2161,2	
2400 x 625	2450,8	
675 x 675	920,7	
900 x 900	1238,9	
1200 x 900	1466,4	
1200 x 1200	1663,1	
1800 x 1200	2130,1	
2400 x 1200	2651,1	

Compatible Tiles Overview

All Rockfon A and E edge tiles available in dimensions mentioned in the "System load bearing capacity" table on page 4 can be installed in Rockfon System T24 A, E.

-			Dimensions (mm)						
Tiles	Edge	Thickness	600 x 600	1200 x 600	1500 x 600	1800 x 600	2100 x 600	2400 x 600	1200 x 1200
Rockfon Artic	A24	15	•	•					
		20	•	•					
	E24S8	15	•	•					
		20	•	•					
Rockfon Blanka	A24	20	•	•	•	•			
		25					•	•	•
	E24S8	20	•	•	•	•			
		25					•	•	•
Rockfon Blanka Activity	A24	40	•	•					
Rockfon Blanka Bas	A24	20	•	•					
Rockfon Boxer	A24	20	•	•		•			
		40	•	•					
Rockfon CleanSpace Essential	A24	12	•	•					
		20	•	•					
	E24S8	12	•	•					
		20	•	•					
Rockfon CleanSpace Pro	A24	20	•	•					
		40	•	•					
	E24S8	20	•	•					
Rockfon CleanSpace Pure	A24	20	•	•					
		40	•	•					
	E24S8	20	•	•					
Rockfon CleanSpace Air	A24	25	•	•					
Rockfon CleanSpace Block	A24	25	•	•					
Rockfon Color-all	A24	15	•	•					
		20	•	•	•	•	•	•	
		25							•
		40	•	•					
	E24S8	15	•	•					
		40	•	•	•	•			
Rokfon Koral	A24	15	•	•					
		20	•	•					
	E24S8	15	•	•					
		20	•	•					
Rockfon MediCare Standard	A24	15	•	•					
	E24S8	15	•	•					
Rockfon MediCare Plus	A24	20	•	•					
	E24S8	20	•	•					
Rockfon MediCare Air	A24	25	•	•					
Rockfon MediCare Block	A24	25	•	•					
Rockfon Pacific	A24	12	•	•					
		15	•	•					
	E24S8	12	•						

Continuing of the Compatible Tiles Overview table.

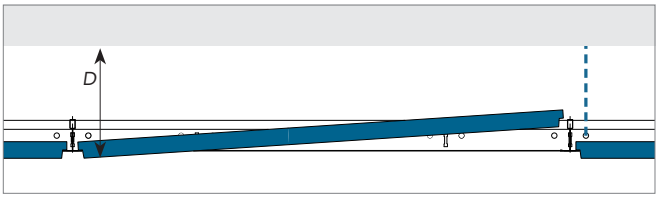
-			Dimensions (mm)						
Tiles	Edge	Thickness	600 x 600	1200 x 600	1500 x 600	1800 x 600	2100 x 600	2400 x 600	1200 x 1200
Rockfon Pallas	A24	20	•	•					
		40	•	•					
	E24S8	20	•						
Rockfon Black	A24	15	•	•					
		20	•	•					
		40	•	•					
	E24S8	20	•						
Rockfon Samson	A24	40	•	•		•		•	
Rockfon Sofit	A24	12	•						
		15	•						
Rockfon Sonar	A24	20	•	•	•	•			
	E24S8	20	•	•	•	•			
Rockfon Sonar Activity	A24	40	•	•					
Rockfon Tropic	A24	15	•	•					
		20	•	•	•	•			
	E24S8	15	•	•					
		20	•	•	•	•			

Minimum installation depth (mm)

Tiles mounted in Rockfon System T24 A, E give full demountability.

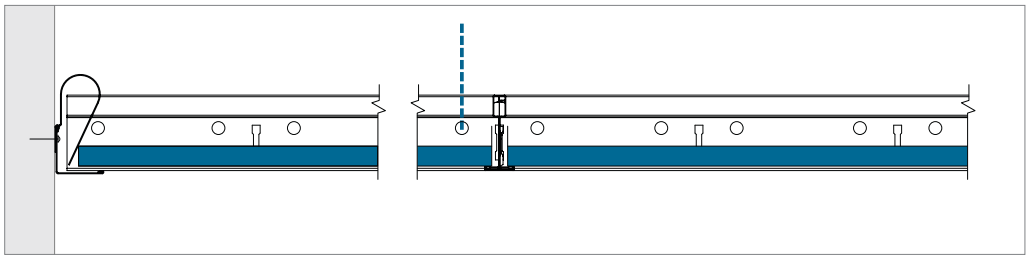
The installation depth is defined as the distance from the visible side of the tile to the underside of the substrate, where the hangers are fixed. D is the minimum installation depth for easy tile installation and demountability.

Tile thickness	Dimensions	D
	mm	
15-20	600 x 600, 1500 x600, 2400 x 600, 625 x 625, 1200 x 600, 1800 x 600, 2100 x 600, 1250 x 625, 1500 x 625, 1800 x 625, 2100 x 625, 2400 x 625, 675 x 675, 900 x 900, 1200 x 900, 1200 x 1200	100
40-100		200

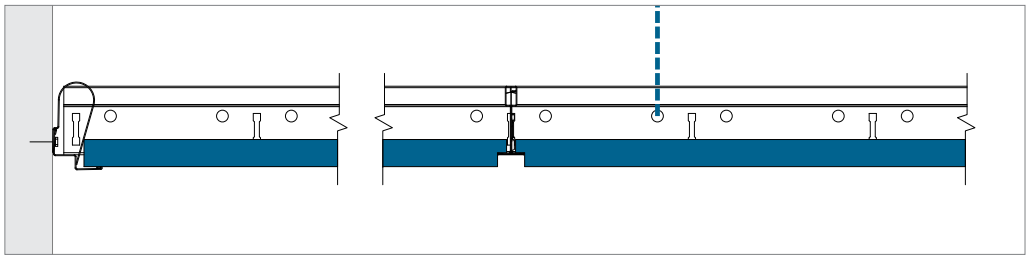


Perimeter Finish Options

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



A-edge - Perimeter finish with wall angle trim.



E-edge - Perimeter finish with shadow wall angle trim.

Service integration

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

When the ceiling system is installed to bear load, Rockfon recommends using support arms or a yoke that transfers the weight of the service to the grid. The size of the yoke should not be bigger than module 600 x 600 mm and the use of additional 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 a maximum of 600 mm and where necessary the use of additional hangers to counteract potential ceiling deflection. For more information on the load bearing capacities of this Rockfon System T24 A, E please refer to the table below.



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	9,9	16,5
	1200 x 300	14,5	24,1
	1200 x 600	10,9	17,9
	1500 x 600	6,3	10,5
	1800 x 300	5,1	8,9
	1800 x 600	3,3	5,7
	2100 x 600	32,9	34,7*
	2400 x 600	31,3	34,5*
1250	625 x 625	8,0	13,3
	1250 x 625	8,8	14,5
	1500 x 625	5,7	9,6
	1800 x 625	3,0	5,2
	1875 x 625	2,6	4,5
	2100 x 625	27,0	34,3*
	2400 x 625	25,8	30,0*
1350	675 x 675	5,2	8,8
	1350 x 675	5,8	9,7
1200	900 x 900	18,6	30,4*
	1200 x 900	8,6	14,2
	1200 x 1200	7,2	11,7
	1800 x 1200	5,3	8,7
	2400 x 1200	4,2	6,9

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.

** Max. weight defined in function of max. allowable load of quick hangers.*

Planning

A thorough planning and installation scheduling of the project/ site will result in less re-work and less ceiling tile damage Rockfon recommends discussing the installation 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 project costs.

Overview load bearing capacity

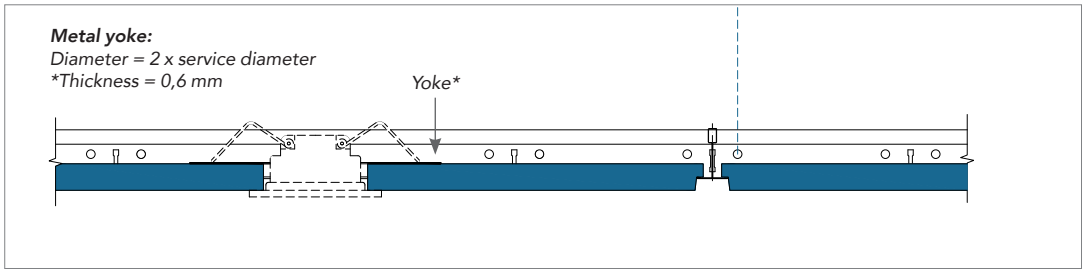
-	Weight of installations		
-	< 0,25 kg/pcs	0,25 ≥ 3,0 kg/pcs	> 3,0 kg/pcs
Small service integration; Spot- or downlight, speaker, ventilation etc.	Drawing A	Drawing B	Suspend separately
Large service integration; Downlight, speaker, ventilation, etc.	Drawing A	Drawing B	Suspend separately
Modular lighting- or ventilation fixture	Drawing C; System load bearing capacity (if evenly distributed over grid in kg/m^2)		

When installing services in Rockfon System T24 A, 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 T24 A, E. Special solutions with integrated services are, if available, shown on page 18 of this document; 'Tools'.

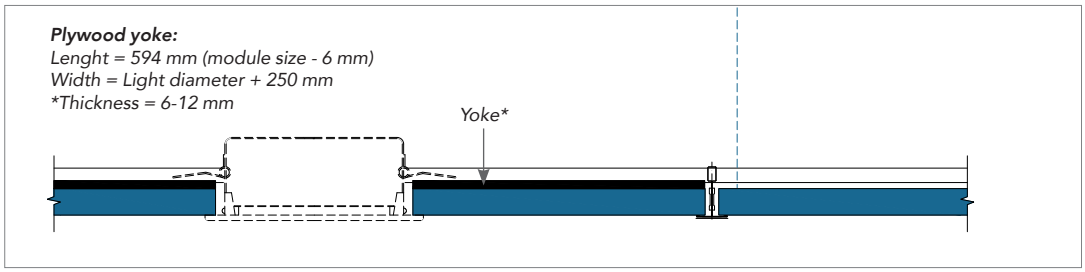
Drawing A

The integration of a spotlight, smoke detector, speaker, etc. (weighing < 0,25 kg/pcs).
Rockfon recommends installing spotlights and downlights centralized in the tile.



Drawing B

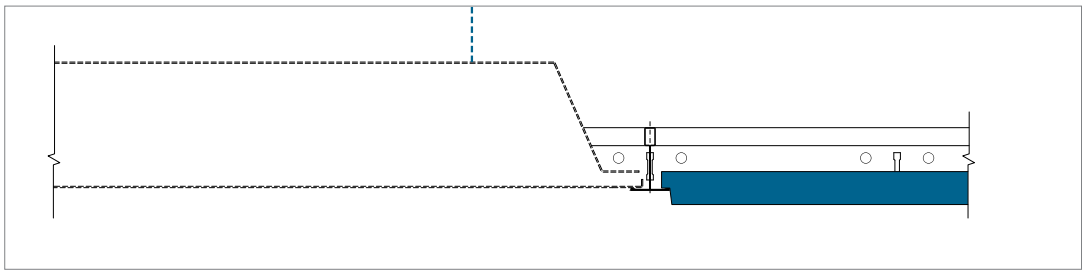
The integration of a downlight, spotlight, smoke detector, loud speaker, etc. (weighing 0,25 ≥ 3,0 kg/pcs).
Usage of an appropriate yoke to spread the load to the grid (as shown in the detail) or usage of support arms to spread the load to the grid system is strongly recommended. The use of additional hangers to avoid excess deflection and a centralized installation of the lighting in the tile is strongly recommended.



*The thickness of the plywood or metal yoke needs to be adapted in function of the weight, size and position of your service integration (e.g. downlight or speaker). The Plywood or metal yoke itself may not deflect after installing your service integration.

Drawing C

The integration of a modular luminaire or air vent (evenly distributed over grid), weighing max. the system loading capacity. If the load capacity of the system is likely to be exceeded it is strongly recommended to suspend the service independently. Alternatively use services equipped with supporting arms on minimum two opposite sides to transfer the weight of the service to the top of the bulb of the grid. This is safer and reduces the likelihood of T rotation.



Specific Solutions

Suspension clip

This Clip can be twist fixed on the bottom of the T24 profile and gives the possibility to hang signs or advertisments underneath the clip. The clip is in a similar white as the grid.



DLC clip as a bridge for suspension main runner

DLC clip can be used to connect profiles to one another without the use of cross tees to create multi-layer grid constructions. This is particularly useful to get around obstacles and services such as light fixtures, ventilation ducts and pipes when these interrupt the primary grid layer.

For corridors or big tile dimensions, using a multi-layer grid layout will save on the amount of hangers and will lead to a neat and fast installation.



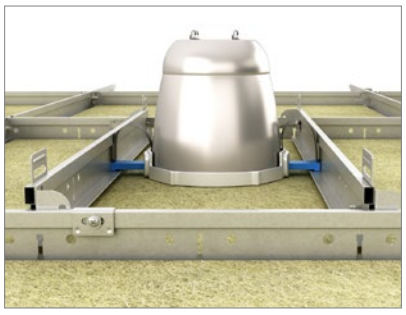
Bridging (Eliminate deflection)

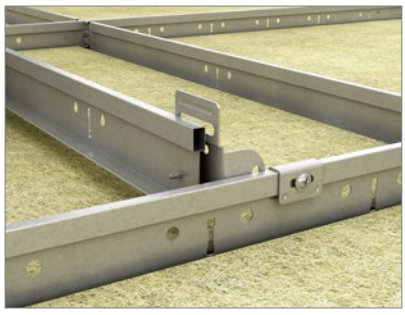
Perfectly optimized for our Rockfon Systems, the bridging bracket feature gives the means to secure your T profiles across a variety of panel thicknesses ranging anywhere from 0 mm (only relevant for our Chicago Metallic T24 Click 2890 or Chicago Metallic T24 Click 2790) to 20 mm.

Easy to install, the bracket is a versatile, non-combustible tool and can be used for service integrations with different dimensions without the need of a using a yoke.



To install the bridging function of the bracket, simply screw fasten the Wall & bridging bracket for T profiles to your main runners and cross tees, transferring the weight of your service integration to the grid. This ensures that no load rests on the tile, eliminating concerns of deflection.





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 300-450 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 centers at all times. A/A distance of the cross tees depends on the module size of the tiles.

For proper grid installation, make sure the T 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 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. 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.

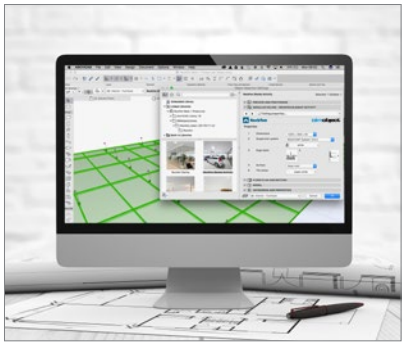
For an optimised work environment, we recommend installers always observe common work practices and follow the installation advise as shown on our packaging.

Cutting is made easily with a sharp knife. All off-cuts and holes must be treated according to local Building Regulations. Mounting of 1800 x 600 mm tiles is recommended to be done by two persons.

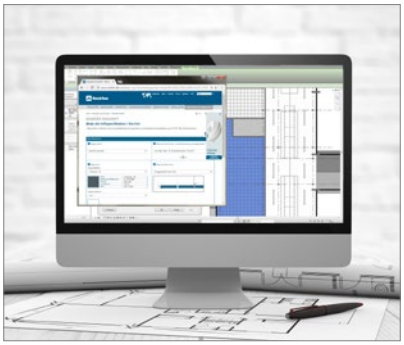
Note! Certain smooth matt surfaces are directional. To ensure consistency of the finished ceiling, it is important that all tiles are mounted in one direction indicated by the arrow printed on the back of each tile.

Tools

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



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.

Sounds Beautiful

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