

# Rockfon<sup>®</sup> CleanSpace<sup>™</sup>

Designed to exceed hygiene standards



**Sounds Beautiful**



# Content

Trends & Driverss . . . . .	3
Introduction to CleanSpace Range. . . . .	4
Rockfon® CleanSpace™ Essential . . . . .	6
Rockfon® CleanSpace™ Pro . . . . .	7
Rockfon® CleanSpace™ Pure . . . . .	8
Rockfon® CleanSpace™ Air . . . . .	9
Rockfon® CleanSpace™ Block. . . . .	10
Comparison Table . . . . .	12
Cleaning Frequency . . . . .	13
Grid Systems & Mounting Requirements . . . . .	14
Our Services . . . . .	17



and let thy feet  
millenniums hence  
be set in midst of knowledge

Terrapoint

## Hygienic spaces are a must

With a heightened awareness of hygiene and sanitation, it is more relevant than ever to carefully consider the materials that we are exposed to. And in a world where we will share spaces and live closer together, people will feel more comfortable in interiors that are designed for user health and wellbeing.

In order to help you maintain a safe and sterile environment, we are introducing you to our Rockfon CleanSpace range of products designed to meet increasing hygiene demands. All of the solutions within the range are developed with an outstanding balance of acoustic comfort, cleanability and resistance to growth of bacteria and micro-organisms.

### Clean and quiet

We're constantly exposed to noise pollution in indoor environments. Everyday activities like conversations, overhead music, telephones and everyday buzz not only harms our health and wellbeing but make it difficult to concentrate. Acoustic solutions create comfortable and safe spaces and have the power to impact everything from performance in schools and offices to the way patients heal in healthcare facilities.

INTRODUCING

# Rockfon CleanSpace

With the Rockfon CleanSpace range, you don't have to choose between clean and quiet.

## Optimal Acoustics

Our ceiling solutions are made with stone wool, a naturally sound absorbent material that provides best-in-class acoustics. Our products allow you to create quiet, healthy spaces where people can focus, heal and thrive.

## Easy care and cleaning

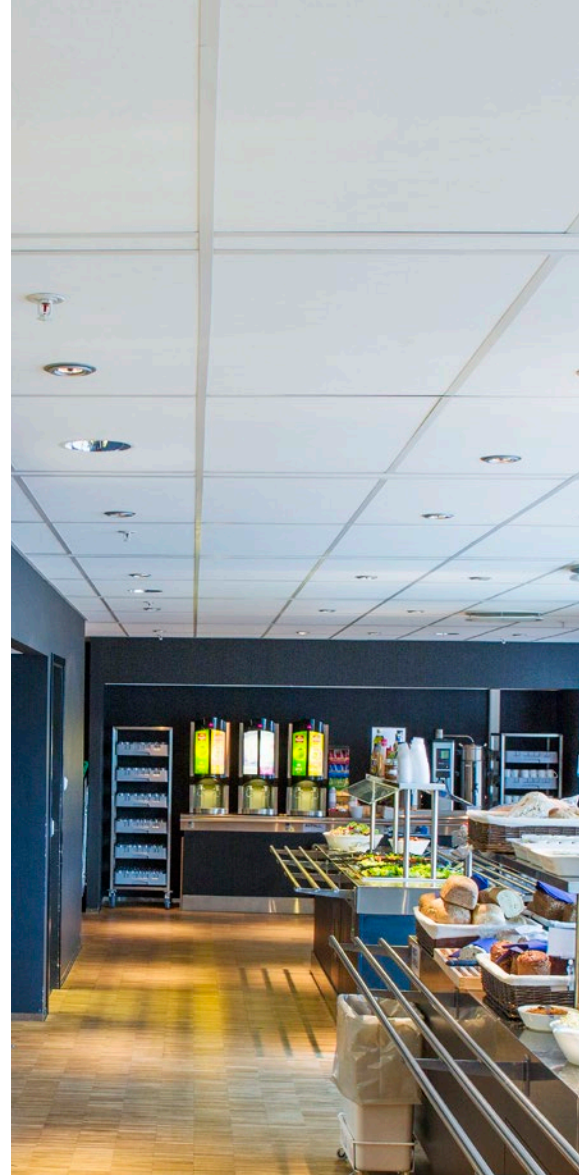
From routine to deep cleaning, our stone wool tiles are designed to minimize maintenance time and costs. Our tiles can be easily cleaned with a vacuum cleaner fitted with a soft brush attachment. In hospitals, cafeterias, locker rooms and other spaces where infection control is a priority, our solutions' moisture-repellent surfaces allow for cleaning with water, disinfectants, and even UV and ozone methods.

## Resistance to humidity

Stone wool is a hydrophobic material, meaning it repels water and does not hold any moisture. This makes our CleanSpace range of ceiling tiles not only humidity-resistant, but also sag-resistant. Even in consistently "wet" rooms like kitchens, restrooms, etc., there is no risk of sagging as they remain entirely stable even up to 100 percent relative humidity (RH) and in temperatures ranging from 0 to 40 degrees Celsius.

## Mould & mildew? No thanks.

Materials used in a building's construction can help limit the spread of bacteria and infection. For this reason, it is more critical than ever before to choose surfaces that don't contribute to the development or spread of microorganisms. Our ceiling tiles don't need fungicides or antimicrobials to prevent mould, mildew or bacteria growth. Our products are made of stone wool and have no nutritional value. Therefore, harmful microorganisms that cause skin infections, pneumonia and other airborne illnesses won't grow on the tiles. The CleanSpace range of products offers freedom to design hygienic environments without losing the aesthetic touch.





Meet the Rockfon CleanSpace range, which includes five acoustic ceiling tile products that are suitable for environments with various hygienic needs. That way you can find the solution that is right for your space.

#### **Rockfon® CleanSpace™ Essential**

A cost-friendly, aesthetic ceiling tile that is gently cleanable. The product is ISO Class 4 and suitable for a variety of room types.

#### **Rockfon® CleanSpace™ Pro**

A cleanable ceiling tile with good acoustic properties. Applicable in various practical and industrial room types with hygienic requirements. The product is long-lasting, withstands numerous cleaning methods and is ISO Class 4- and HACCP certified.

#### **Rockfon® CleanSpace™ Pure**

A smooth, deep-matt, pure white cleanable ceiling tile with good acoustic properties. Applicable in various room types with cleanability requirements. The product is long-lasting, withstands numerous cleaning and disinfection methods and is ISO Class 3 certified.

#### **Rockfon® CleanSpace™ Air**

A high-quality, smooth white acoustic ceiling tile that is designed for cleanrooms and air tight environments. It allows for rigorous cleaning requirements due to its enhanced durability and chemical resistance. The product is long-lasting, withstands numerous cleaning methods and is ISO class 3 certified.

#### **Rockfon® CleanSpace™ Block**

A ceiling tile that is specifically designed for use in high-risk, air pressure controlled environments such as cleanrooms and laboratories where there are demanding sanitation requirements. ISO Class 2 certified.



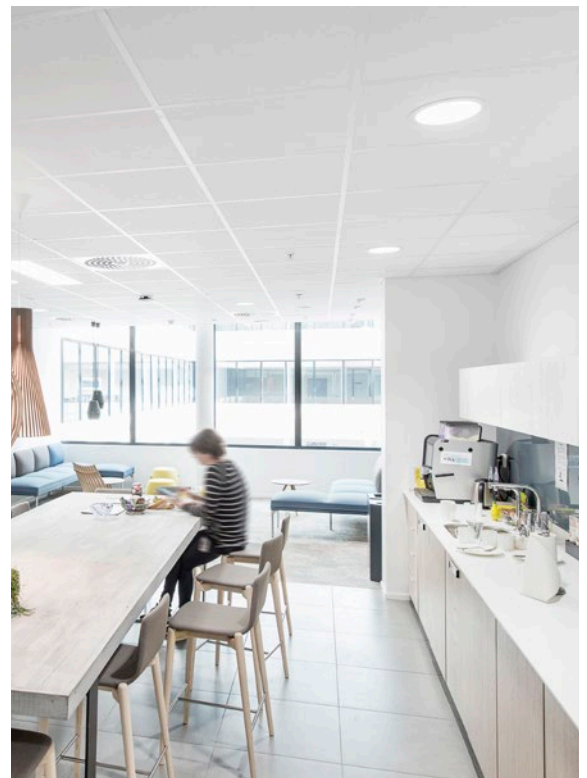


# Rockfon® CleanSpace™ Essential

The Essential is a cost-friendly ceiling tile solution that is long-lasting and suitable for a variety of room types. Not only does this tile fulfil the necessary cleaning requirements in most spaces, it also has enhanced acoustic properties that contribute to a healthy indoor environment.

## Your Benefits

1. Class A acoustic performance with A-edge in 12, 20 and 25mm thickness
2. Easy to clean with damp cloth or vacuum cleaner
3. ISO Class 4 certified



*NB! Are you looking for Rockfon Hygienic Royal?  
Look no further – from today CleanSpace Essential is  
the improved version of Royal.*

## RECOMMENDED FOR USE IN THE FOLLOWING AREAS

- Restrooms
- Washing facilities
- Wet rooms (showers)
- Locker rooms
- Canteens
- Fitness Centres
- Restaurants

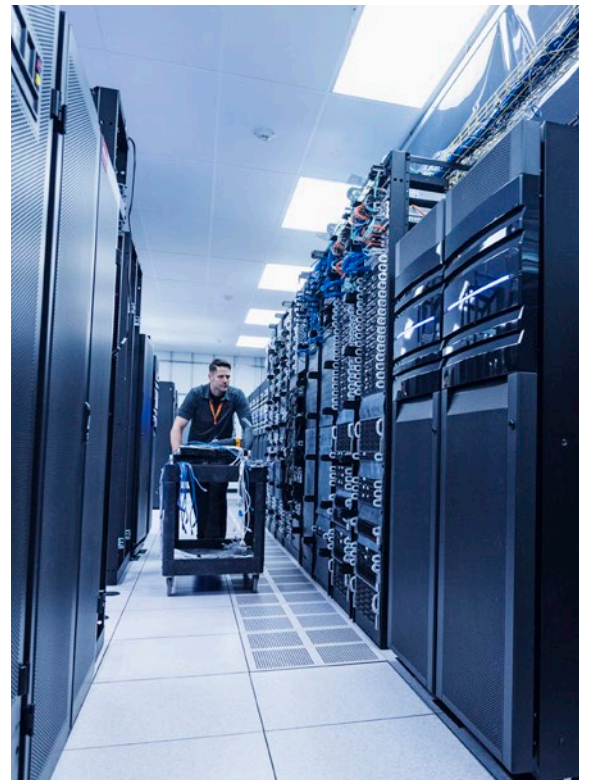


# Rockfon® CleanSpace™ Pro

The Pro is an aesthetic ceiling tile solution that is designed to fulfil the needs of both industrial and practical environments. With antistatic and dust resistance qualities, it guarantees prevention of static electricity build-up while also withstanding various methods of cleaning and disinfections. And last but not least, it is easy to cut and install while containing excellent acoustic properties.

## Your Benefits

1. ISO Class 4 certified
2. Class A acoustic performance
3. Aesthetic finish with A- & E-edge
4. HACCP approved and anti-static
5. Allows for vacuum, damp cloth, low pressure foam- and high-pressure cleaning
6. Resistant to certain (diluted) chemicals with no impact and no sustenance to microorganisms



## RECOMMENDED FOR USE IN THE FOLLOWING AREAS

- Restrooms
- Restaurants/Canteens
- Food & drinks Industry
- Spa/swimming pools
- Datacenters
- Wet rooms (showers)
- Electronic, pharma, optics Industry



# Rockfon® CleanSpace™ Pure

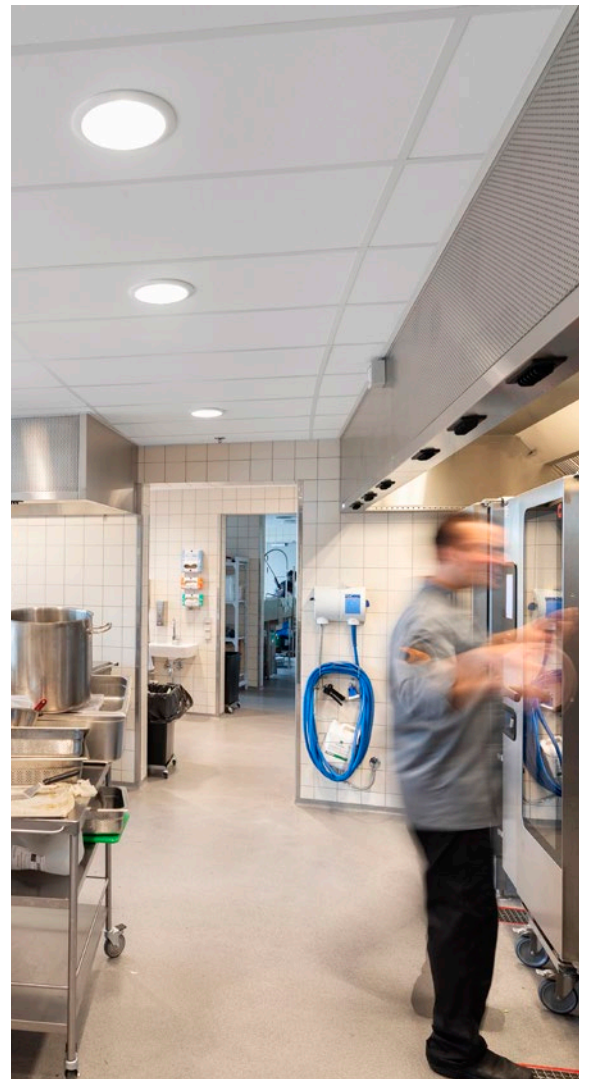
The Pure is a long-lasting acoustic ceiling tile solution that is designed for sanitation, as it is able to endure cleaning and disinfection by a variety of methods. Similar to the Pro, it also has anti-static and dust resistance qualities but with the added bonus of higher light reflection properties, so that you can meet demanding cleaning requirements without compromising aesthetics.

## Your Benefits

1. Class A acoustic performance
2. Aesthetic finish with A-, E- & X-edge
3. High light reflection properties
4. Allows for vacuum, damp cloth cleaning and no sustenance to microorganisms
5. Withstands disinfection methods such as hydrogen vapour peroxide, UVC and Ozone
6. ISO Class 3 certified
7. Diffuse ventilation

### RECOMMENDED FOR USE IN THE FOLLOWING AREAS

- Catering/Kitchens
- Laboratories
- Retail outlets
- Hydrotherapy rooms
- Kindergarten & schools







# Rockfon® CleanSpace™ Air

The Air is a high-quality, smooth white acoustic ceiling tile that is designed for clean rooms and air tight environments. It allows for rigorous cleaning requirements due to its enhanced durability and chemical resistance capabilities, without compromising on aesthetics.

## Your Benefits

1. Airtight ceiling tile for controlled environments
2. Class B acoustic performance
3. Allows for vacuum, damp cloth and withstands standard disinfection methods
4. No sustenance to microorganisms and contains high performing chemical resistance properties
5. ISO Class 3 certified

### RECOMMENDED FOR USE IN THE FOLLOWING AREAS

- Air controlled environments
- Chemical Industry
- Laboratories
- Cleanrooms
- Pharma Industry





# Rockfon® CleanSpace™ Block

Block is a high-quality, acoustic ceiling tile that is designed for cleanrooms and spaces with no tolerance for pollution or contamination. It is encased in a sealed film, which allows for rigorous cleaning requirements due to its enhanced durability, chemical resistance and water repellence capabilities.

## Your Benefits

1. Encased in water-tight film
2. Class A acoustic performance
3. Allows for vacuum, damp cloth, low pressure foam- and high-pressure cleaning
4. Excellent resistant to certain chemicals with no impact and no sustenance to microorganisms
5. Withstands disinfection methods such as hydrogen vapour peroxide, UVC and Ozone
6. ISO Class 2 certified
7. 100% suited for hygienic environments with no tolerance for pollution or contamination

### RECOMMENDED FOR USE IN THE FOLLOWING AREAS











- Cleanrooms
- Chemical Industry
- Pharma Industry
- Laboratories





# Rockfon CleanSpace

A solution for every hygienic space

Properties	Rockfon® CleanSpace™ Essential	Rockfon® CleanSpace™ Pro	Rockfon® CleanSpace™ Pure	Rockfon® CleanSpace™ Air	Rockfon® CleanSpace™ Block
 <b>Sound absorption</b>	0.95	1.00	1.00	25 mm 0.8	0.90
 <b>Surface durability</b>	-	Enhanced durability and dirt resistance	Enhanced durability, dirt & wet-scrub resistance	Enhanced durability and dirt resistance.	The high performance inert film of Rockfon CleanSpace Block provides enhanced durability and waterrepellence.
 <b>Light reflection</b>	85%	85%	86%	85%	74%
 <b>Cleaning</b>	Vacuum, Damp cloth, Chemical resistance <sup>1B)</sup> Quarterly disinfection	Vacuum, Damp cloth, Steam cleaning, Low pressure foam cleaning, High pressure cleaning.  <i>Chemical Resistance:</i> Resistant to active chlorine. <sup>1)</sup> Monthly disinfection.	Vacuum, Damp cloth, Steam cleaning, High pressure cleaning.  <i>Chemical Resistance:</i> Resistant to active chlorine. <sup>1)</sup> Weekly disinfection.	Vacuum, Damp cloth, Steam cleaning.  <i>Chemical Resistance:</i> <sup>1)</sup> 2x weekly disinfection.	Vacuum, Damp cloth, Steam cleaning, Low pressure foam cleaning, High pressure cleaning.  <i>Chemical Resistance</i> <sup>2)</sup> Daily disinfection
 <b>Hygiene</b>	-	Stone wool provides no sustenance to microorganisms. Microbiological class M1 fulfilling the requirements of Zone 4 (very high risk) defined by NF S 90-351:2013. <sup>3)</sup>			
 <b>Air Pressure</b>	-	-	-	> 0.5m <sup>3</sup> /h/ m <sup>2</sup> / Pa under a pressure range of 5 to 40 Pa. 4)	-
 <b>Humidity and sag resistance</b>	Up to 100% RH (20-25mm)	Up to 100% RH	Up to 100% RH	Up to 100% RH	Up to 100% RH
 <b>Reaction to fire</b>	A1	A1	A1	A1	B-s1,d0
 <b>Clean room</b>	ISO Class 4	ISO Class 4	ISO Class 3	ISO Class 3	ISO Class 2
 <b>Disinfection</b>	-	-	Resistant to using Hydrogen Peroxide Vapor disinfection. Can withstand and will not be affected by UVC and Ozone disinfection.	-	Resistant to using Hydrogen Peroxide Vapor disinfection. Can withstand and will not be affected by UVC and Ozone disinfection.

1) 2,6%, quaternary ammonium 0,25%, hydrogen peroxide 5%, Ethanol 70% and Isopropanol 70%.

1B) 2,6%, quaternary ammonium 0,25%, hydrogen peroxide 5% and Ethanol 70%

2) Formalin (37%), Ammonia (25%), Hydrogen peroxide (30%), Sulphuric acid (5%), Phosphoric acid (30%), Peracetic acid (15%), Hydrochloric acid (5%), Isopropanol (100%), Sodium hydroxide (5%), Sodium hypochlorite (15%).

3) Tested with: Methicillin Resistant Staphylococcus Aureus (MRSA), Candida Albicans, Aspergillus Brasiliensis, E.Coli, Bacillus cereus.

M1 / zone 4 for the tested 5 pathogens. The particle elimination kinetics class is conform to CP(0,5)5 according to the norm NF S 90-351:2013.

When used in combination with a HDC 2 (25 mm tile) or HDC 7 (40 mm tile), 11,2 clips/m<sup>2</sup> for 600x600 mm tiles, the high performance membrane with sealed edges, and a closed neoprene foam tape on the grid (mandatory). For more information, please contact customer service.

Detailed guidelines for cleaning using these methods can be found on Rockfon CleanSpace data sheets. Check out the official cleaning description for Pro for example: Vacuum, Damp cloth, Steam cleaning (twice a year), Low pressure foam cleaning (twelve times a year), High pressure cleaning (only applicable for A-edge installation). Max. 80 bar, min. 1 meter distance, water spread at 30(O) angle, max. water flow XXL/sec. The tiles should be clipped into the grid.

# Cleaning

An overview of applicable cleaning methods, frequency and concentration of chemicals

	Rockfon® CleanSpace™ Essential	Rockfon® CleanSpace™ Pro	Rockfon® CleanSpace™ Pure	Rockfon® CleanSpace™ Air	Rockfon® CleanSpace™ Block
<b>Basic cleaning</b>					
Vacuum	Yes	Yes	Yes	Yes	Yes
Damp cloth	Yes	Yes	Yes	Yes	Yes
<b>Advanced cleaning</b>					
Steam cleaning	-	Twice a year	Twice a year	-	Twice a year
Low pressure foam cleaning	-	Monthly	-	-	Monthly
High-pressure cleaning*	-	Monthly	Monthly	-	Weekly
Hydrogen peroxide vapour	-	Yes	Yes	-	Yes
<b>Disinfection</b>					
UVC disinfection	-	-	Yes	-	Yes
Ozone disinfection	-	-	Yes	-	Yes
<b>Chemical resistance</b>					
Active chlorine	2.60%	2.60%	2.60%	2.6%	5%
Quaternary ammonium	-	0.25%	0.25%	0.25%	5%
Hydrogen peroxide	5%	5%	5%	5%	30%
Ethanol	70%	70%	70%	70%	100%
Isopropanol	-	70%	70%	70%	100%
Formalin	-	-	-	-	37%
Ammonia	-	-	-	-	25%
Sulphuric acid	-	-	-	-	5%
Phosphoric acid	-	-	-	-	30%
Peracetic acid	-	-	-	-	15%
Hydrochloric acid	-	-	-	-	5%
Isopropanol	-	-	-	-	5%
Sodium hydroxide	-	-	-	-	5%
Sodium hypochlorite	-	-	-	-	15%
<b>Frequency</b>	Quarterly	Monthly	Weekly	2 x Weekly	Daily

\*Only applicable for A-edge installation.

# Grid Systems

The Rockfon CleanSpace range of tiles can be combined with a click grid system, providing quick and easy 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 grid will be visible with Rockfon CleanSpace A-edge tiles, semi-concealed with E-edge tiles or hidden with X-edge tiles. The grid system also includes main runners, cross tees, hangers and other necessary components. For detailed information on compatible grid systems, please reference the Rockfon CleanSpace Installation Guide.

## Mounting Requirements

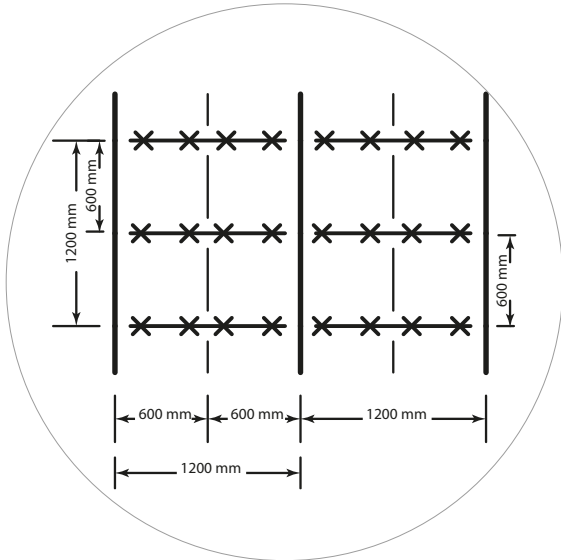
MOUNTING REQUIREMENTS FOR PLASTIC HOLD DOWN CLIPS HDC1/ HDC2/ HDC3												
TILE		APPLICATION AREA										
		CLEANING					WIND UPLIFT			DIFFERENTIAL PRESSURE/AIR TIGHTNESS	SLOPE	
		STANDARD			HIGH PRESSURE							
EDGE	THICKNESS (MM)	HDC1	HDC2	HDC3	HDC1	HDC3	HDC1	HDC2	HDC3	HDC2	HDC1	
A	2	3/7						3/8				
	20	3/7				4/9		3/8				
	25		3/7						3/8	4/9		
	40			3/7			4/9			3/8		
E	20	2/6						3/8				
X*	22	1/5										1/5

\*Due to the design of the X, the hold down clip does not impede access to the plenum, permitting easy contact to the installations behind the ceiling.

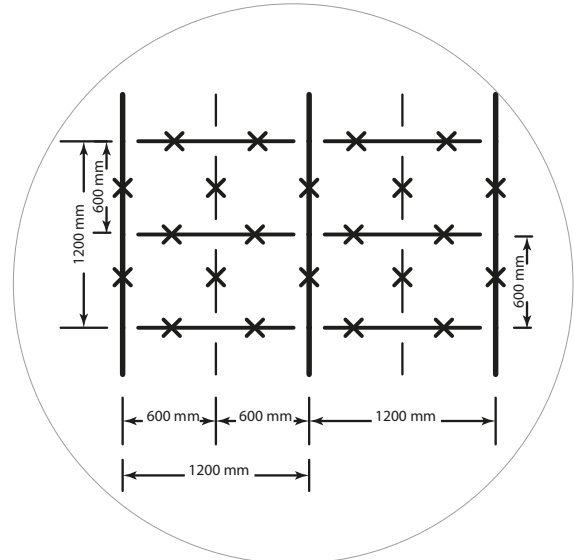
AMOUNT OF CLIPS/M <sup>2</sup>		
MODULATION	DRAWING	AMOUNT OF CLIPS
600 x 600 mm	1	5.6 clips / m <sup>2</sup>
	2	5.6 clips / m <sup>2</sup>
	3	2.8 clips / m <sup>2</sup>
	4	11.2 clips / m <sup>2</sup>
1200 x 600 mm	5	4.2 clips / m <sup>2</sup>
	6	4.2 clips / m <sup>2</sup>
	7	2.8 clips / m <sup>2</sup>
	8	1.4 clips / m <sup>2</sup>
	9	8.33 clips / m <sup>2</sup>

The numbers in the table refer to the drawings on the following pages. These drawings only show a few ceiling options, depending on the tile dimension. For other dimensions, contact Rockfon technical service.

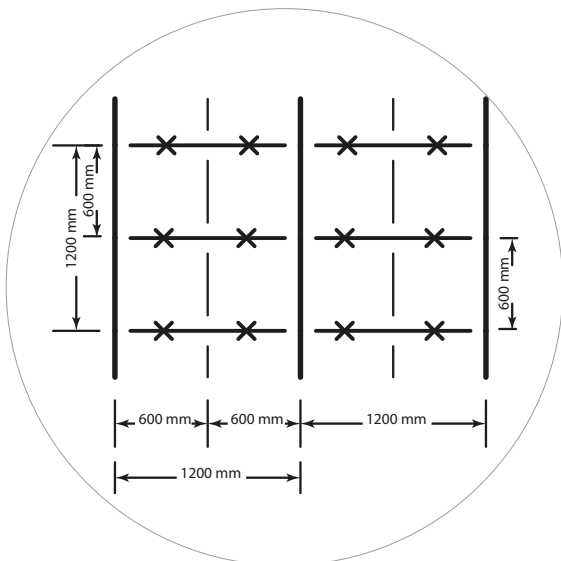
## Placement of clips



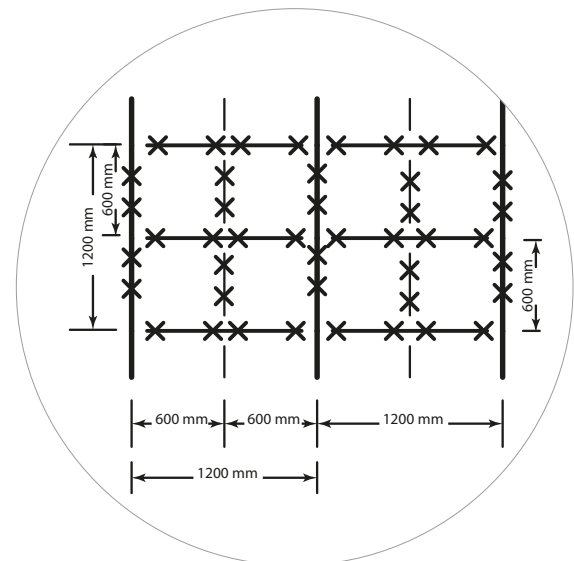
DRAWING 1







DRAWING 2

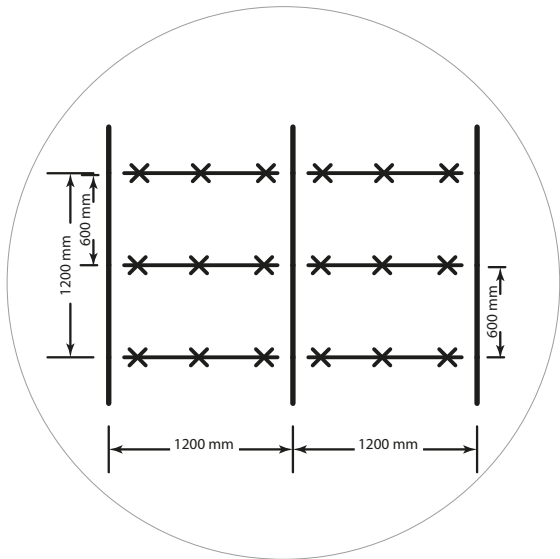


DRAWING 3

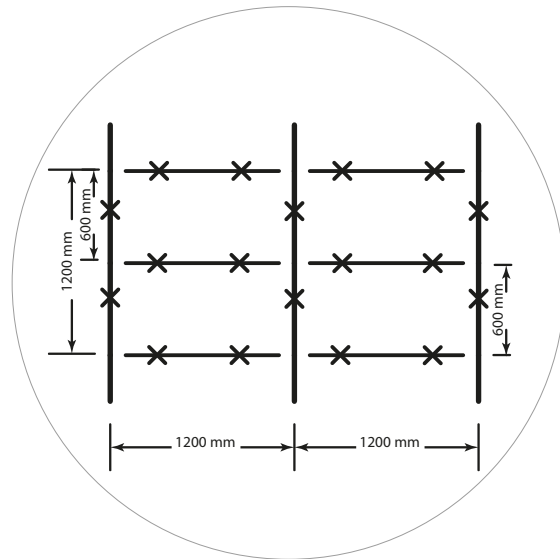


DRAWING 4

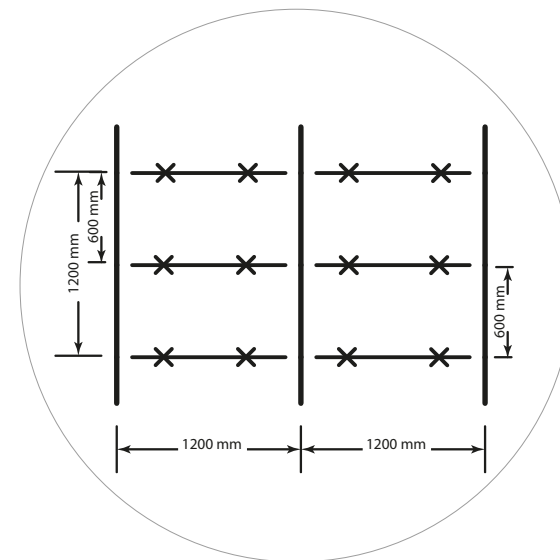
-  Main Runner
-  Cross Tee 1200 mm
-  Cross Tee 600 mm
-  HDC Clip



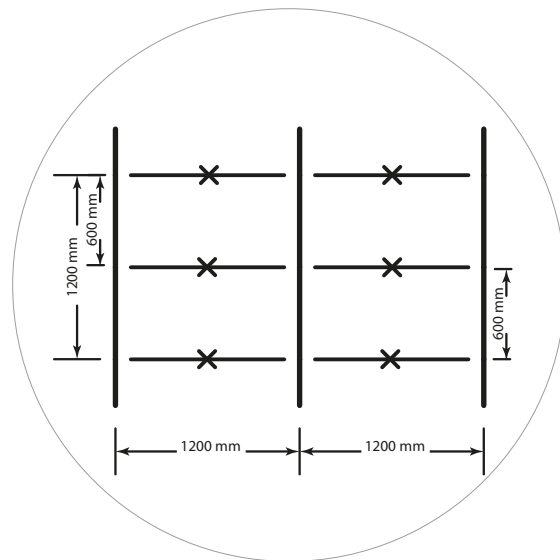
DRAWING 5



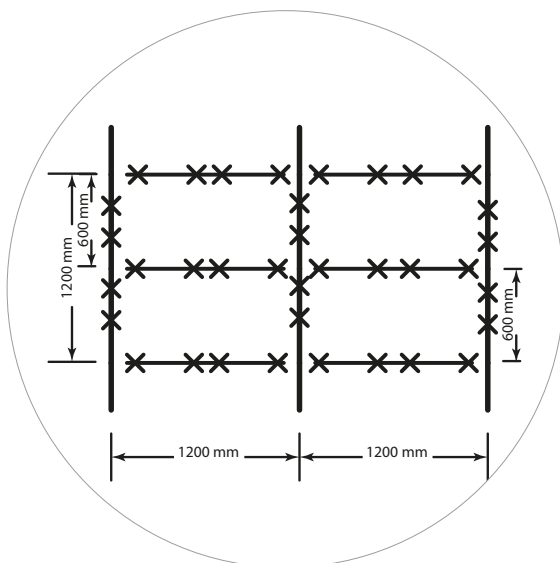
DRAWING 6





DRAWING 7



DRAWING 8



DRAWING 9

-  Main Runner
-  Cross Tee 1200 mm
-  Cross Tee 600 mm
-  HDC Clip





# Be part of making the world sound better to everyone

Get started today

Rockfon is part of the ROCKWOOL Group and we are the world's leading acoustic company – and our mission is to keep things quiet.

## **We are the zzz in restful hospitals**

Every day we are inspired to innovate with sound solutions that help people think, relax and enjoy life more. Our acoustic solutions do more than reduce noise, they also create calmer, healthier buildings for patients and staff.

## **We're here to help**

We have 22 offices and 9 manufacturing facilities worldwide and we're on hand to help you find the right acoustic solutions for your next healthcare project.

## **Your sustainable building partner**

Our high-quality products are made from natural stone. They work, they're beautiful and they last – until they're recycled to make more. And we provide all the necessary documentation to support you in creating a sustainable project.

## **Our online resources**

Explore our website for sound calculations, instruction videos, documents, and a comprehensive BIM library with objects compatible with ArchiCAD and Revit. Speed up your design processes with this free to use support on: [www.rockfon.com](http://www.rockfon.com)

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