

Design for Leisure



How acoustic solutions can create comfortable surroundings and soundscapes to give the best movie experience for your customers.

Sounds Beautiful

Do you want to create the best movie-going atmosphere in a cinema? Whether you're designing cinema from scratch or refurbishing an existing one, this brochure is for you.

You'll find the latest trends that are shaping cinema design and tips for how to make the acoustics more than just a last detail.

This easy-to-navigate booklet is for Architects and Designers. It's a tool to inspire and guide the reader with insightful knowledge about optimising a cinema to give customers a memorable experience in a pleasant environment.

Rockfon acoustic solutions create beautiful soundscapes for people to enjoy themselves and feel comfortable.

Parik Chopra

Managing Director, Rockfon

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Current trends in **Cinemas**

The journey from the cinema entrance to the seat is taken for granted, but a great atmosphere and design can stand out as much as the characters on the silver screen.

We're excited to share some interesting insights and upcoming trends that impact the design of cinemas. We want to show you how it can support your business and create a better experience for your customers.



Getting in the mood

People go to the movies for more than just watching them. They go for the experience. In the digital age, where media and mobile devices stream endless content, cinemas must embrace their guests and make their evening magical. Movie theatre design should wow people and really immerse them in the experience of going to a cinema. Playing with colours and patterns at the entrance and in the hallways are a great way to impress customers as they wait to watch that movie they're just can't wait to see.

How can we help?

Our acoustic solutions come in 34 exclusive colours and in a variety of shapes, dimensions and applications to inspire and enhance your interior design scheme, helping set the mood in the cinema while controlling the noise levels.



Staying flexible

It's important for cinemas to be flexible and modular because there is sometimes a need to modify spaces for different events or premiers that need special visuals or performing art. To keep cinemas fresh and vital, events like these will be much more common.

Where do we fit in?

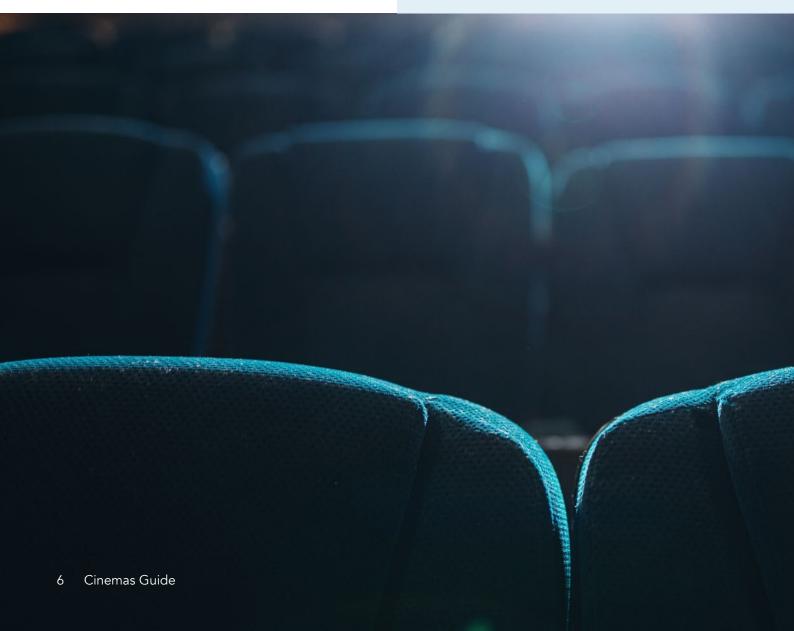
Our acoustic ceilings are designed holistically approach with a high emphasis on modularity to allowing you to create multi-functional spaces. The flexibility in formats, edges and colours enable quick changes to suit any activity.

Sound

Great sound during a movie adds to the experience - and that can't be achieved by a great sound system alone. Sound in cinemas needs to be absorbed and controlled, otherwise, sound waves would be ricocheting off the floors, ceilings and walls, destroying the whole movie-going experience. This will continue to be a vital design consideration for cinemas for now and well into the future.

How can we help

We offer the best in class acoustic solutions. Stone wool is the core material in all Rockfon products, and it is an extremely sound absorbent material. They are independently tested in certified laboratories using an Alpha w measurement (aw) in accordance with ISO11654.





Excellent acoustics are vital to the movie-going experience. Lousy acoustics in a movie theatre is like watching a movie with too much light. It just doesn't work.

Pascal van Dort, Global Acoustics Ambassador

How to design for different spaces in a cinema

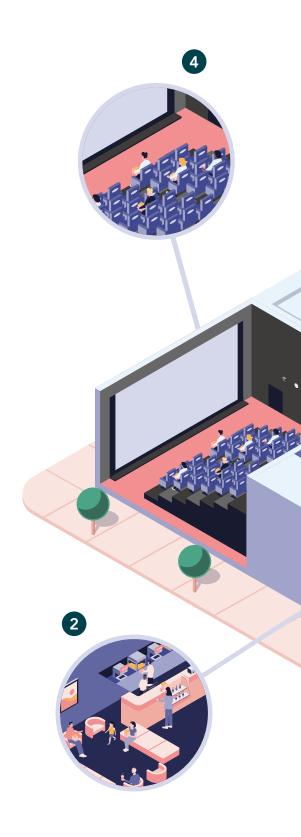
Different people, but create the same feeling

Creating an experience that makes people feel great is what going to the cinema is all about. Setting the stage for success means thinking about the vibe, the design, easy navigation, comfort and acoustics. The right mixture of these elements is guaranteed to be a blockbuster success.

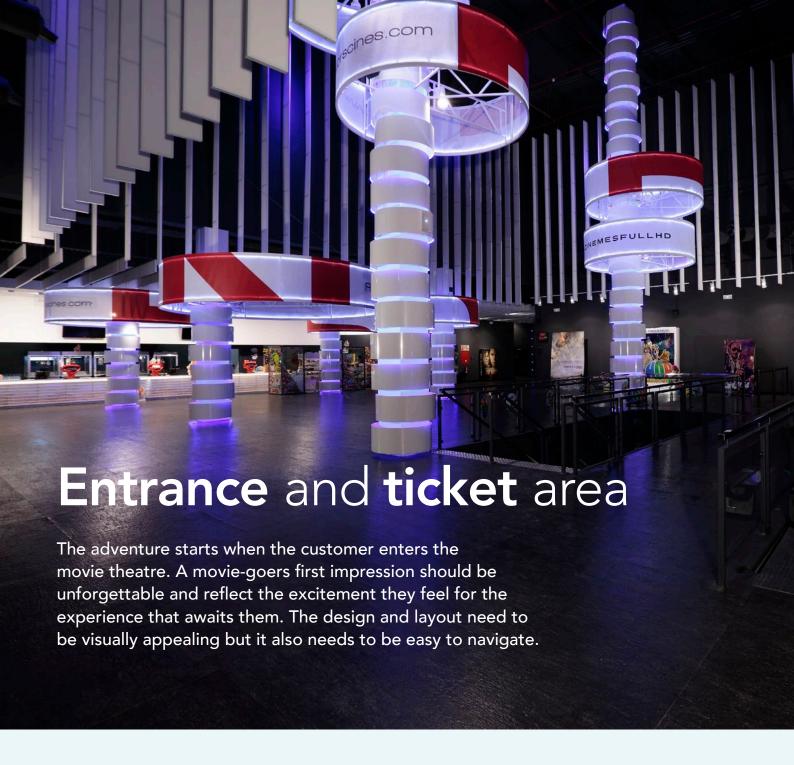
Strength of Rockfon

We aim to create spaces that sound stunning - and in a busy area like a movie theatre, excellent acoustics is a must. Our broad range of acoustic solutions gives you the freedom and opportunity to create a comfortable and unique space for visitors to enjoy themselves in.

- 1 Entrance and ticket area
- 2 Concession stands and lounge
- 3 Hallways
- Screening room
- 5 Restrooms







Here are some products we recommend

Rockfon Blanka®

The bright, matt white surface that looks and sounds great. Rockfon Blanka® offers the best acoustic level to ensure a comfortable indoor environment. The super white and smooth surface comes in edges and dimensions to complement every space.

Rockfon Eclipse®

Rockfon Eclipse is a beautiful, frameless acoustic island that comes in a variety of geometric shapes. They are perfect for improving sound absorption in combination with a fun design.

Rockfon Color-all®

Available in 34 exclusive colours, everything from subtle to bold long-lasting colours. It is available in concealed, semi-concealed and visible grid solution and it in a variety of tile sizes, giving you total design freedom.

The Rockfon Color-all ceiling tiles are ideal for this type of project. They fulfil all the acoustic and design requirements demanded by a high-tech multiplex.

Philip McCabe,
Development Director for Principal Contractor,
Britannia Construction.

The power of colour

The entrance sets the scene for how the rest of the experience will be. This space should make customers feel comfortable and relaxed right off the bat - and colours are a great way to set the mood.

The use of colour knowledge can be a great way to create and stimulate feelings and behaviours to create positive outcomes. For example, blue light blues and soft greens soothe and calm the mind, a great way to make people feel at ease.

Control the sound

The entrance and ticket area are busy with people meeting up before a show and buying their tickets. This conversational noise and heavy foot traffic is a nuisance in these busy spaces.

Having the right acoustics on the ceilings and walls can be a great way to avoid elevating noise levels and overwhelming customers.



Set the scene with a great design

Entrance and ticket area design solutions

When a person decides to go to the cinema, they go for the movie but also the experience - and the interior design is a part of the experience. It's important that sound levels at the entrance and ticket area are controlled, avoiding that the space becomes too noisy.

Product Highlight

Rockfon® Mono® Acoustic

A unique design solution for new build or renovation projects alike. Perfect for ceilings and walls, the innovative monolithic surface delivers outstanding acoustic comfort.

The refined white surface provides high light reflection and light diffusion, ensuring even light distribution and reducing the need for artificial light.





CASE STUDY



Acoustic design tips

Three tips for creating an excellent acoustic comfort in the entrance and ticket area.

- 1. Use high-quality sound-absorbing materials to reduce the sound and prevent it from spreading.
- 2. Create sound barriers in the interior design to absorb the noise and create standing areas.
- 3. Have soft material on the floors to improve sound absorption.

Cinemes Centre Splau

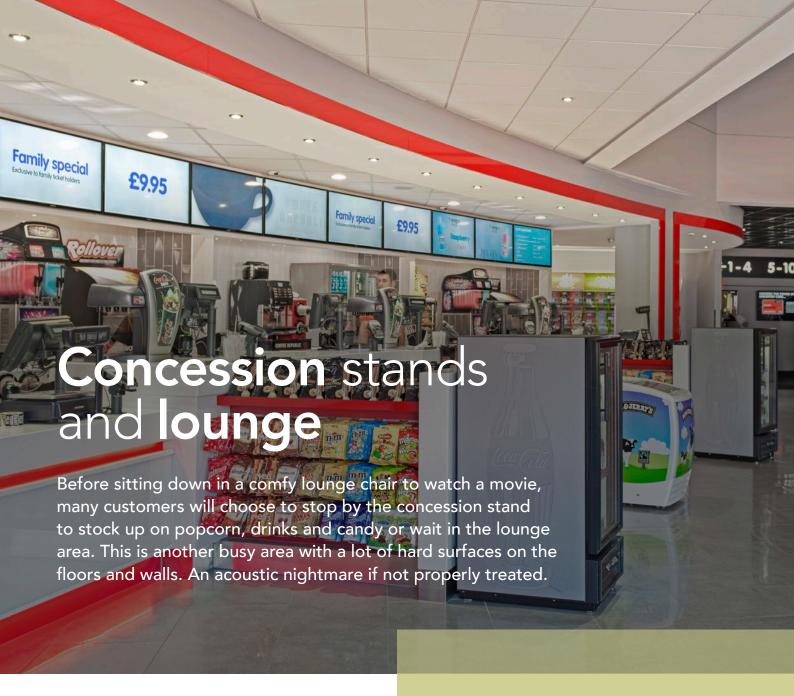
llobregat, Spain

Challenges:

The two biggest challenges in achieving a memorable experience were space and sound. The closeness of the theatres creates a passage of sound between the cinemas and the common zone and foyers.

Solutions and results:

The architect designed a dual ticket and lounge area. A visible suspended ceiling with a beautiful contrast of white baffles hanging down from the ceiling controls the sound. They appear like a moonlit forest with the striking tall free-floating installation hanging in the middle.



Make the minutes count

When people go to the cinema, they go for more than just the big screen; they go to share in an experience. Lounges provide an escape from the together and part experience of watching a movie in the cinema. They are a great place to catch up with a friend both before and after a movie. Excellent acoustics are key to creating the right balance of comfort and privacy in these busy spaces.

We have to prevent the sound from passing from one room to another. Especially noises from the common areas and lobbies shouldn't disturb the dark rooms.

Marta Batlle,

Let's control the noise

Concession and lounge areas are places where visitors can buy snacks and wait to get into the theatre to watch their show.

Because these areas tend to be busy, it requires good noise control solutions and zoning techniques. This combination can help reduce irritation caused from having too many people gathered together.

A safe space to grab some food

Hygiene is a crucial concern for every food is served, which is why sanitation regulations are so strignet. It is vital in these spaces that the building materials, including the ceiling, can be regularly cleaned and disinfected if necessary. It is also key that the building materials in this space don't contribute to the spread of micro-organisms and bacteria.





Get the right solutions for your design

Concession stands and lounge design solutions

Concession stands and the lounge area are busy and crowded spaces in the cinema. To make the experience more comfortable for everyone, these spaces need solid sound absorbing materials, enhancing the atmosphere and experience without a lot of pesky noise getting in the way, while still respecting the need for good hygiene and cleanability.

Product highlight

Rockfon Blanka®

A bright, white ceiling that looks and sounds stunning. With Rockfon Blanka®, you get a smooth, deep matt and super-white surface with high light reflection and light diffusion. Its durable surface are engineered to create a noticeably brighter and more comfortable indoor environment, that can be cleaned, so you don't have to choose between design and functionality.





Here are some products we recommend

Rockfon® Universal™ Baffle

Suitable for open plenum as it's the perfect solution if you seek to improve speech intelligibility. The creative and innovative layout in these acoustic baffles creates a unique design, and it's available in 33 inspiring colours.

Rockfon Eclipse®

This frameless and innovative acoustic islands comes in a variety of geometric shapes offering excellent sound absorption. A great complement to improve speech intelligibility with a colourful and fun design. These can be suspended alone or under a traditional acoustic ceiling.

Acoustic design tips

Three acoustic design tips to consider when creating concession stands and lounge area.

- 1. Aim for a minimum reverberation time to create a better feeling when entering the space.
- 2. Ensure you have thick and dense soundabsorbing materials on the ceilings to ensure speech clarity.
- 3. Have soft materials on the floors to counteract impact sounds.

Hallways Hallways are the gateways to the screening rooms, and proper acoustics are crucial in these spaces. There is nothing worse than having noise from the hallways take you out of a scene. Good acoustics and functional design are a great way to safeguard against noise transferring from the hallways into the screening room.

Controlling noise

To properly control noise in hallways requires embracing excellent acoustics. This can reduce agitation experienced by moviegoers that could be distracted from a critical scene in a movie by the chatter of people coming or leaving a movie. By using high-quality sound-absorbing material on the ceiling and walls you can remove obstructive noises from finding their way into the screening rooms.

Better together

Sound absorption and sound insulation go handin-hand; in fact, there is a direct link between the two. When the sound source has a ceiling with high sound absorption, it creates a lower sound pressure in the room, which decreases the amount of sound transmitted to the adjacent space. If the room also has good sound insulation that lowers the sound transmission even further and enhances the acoustic atmosphere. To get an even better sound absorption level in the hallways, a good idea can be to add additional acoustic solutions on the wall.

Here are some products we recommend

Rockfon Blanka®

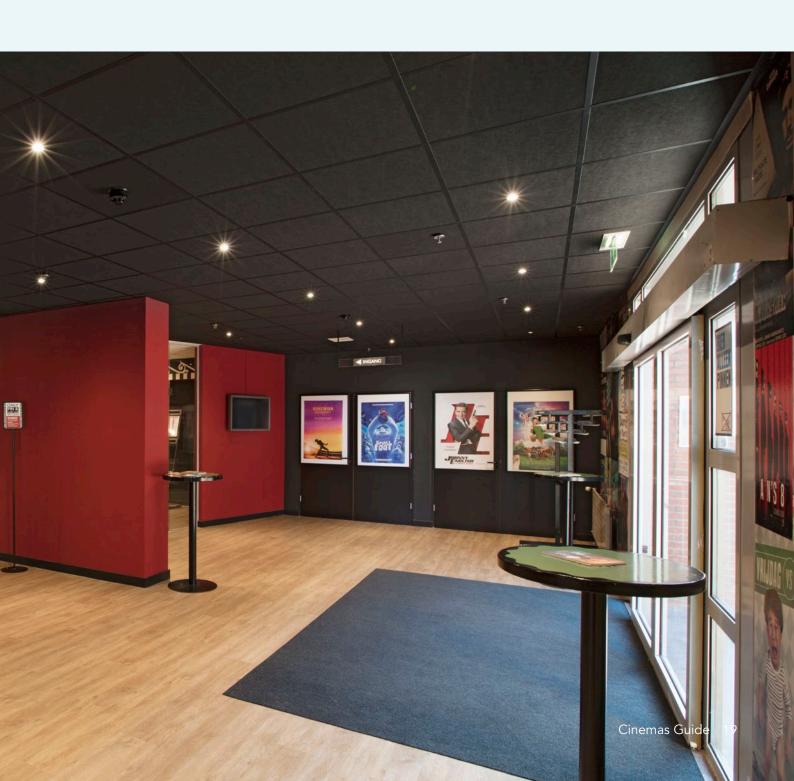
The bright, matt white surface that looks and sounds great. Rockfon Blanka® offers the best acoustic level to ensure a comfortable indoor environment. The super white and smooth surface comes in edges and dimensions to complement every space.

Rockfon Color-all®

Available in 34 exclusive colours, everything from subtle to bold long-lasting colours. It is available in concealed, semi-concealed and visible grid solution and it in a variety of tile sizes, giving you total design freedom.

Rockfon Eclipse® wall panel

These aesthetic, frameless acoustic wall solutions are perfect for dynamic open offices where a lot of verbal communication is a regular occurrence. The wall panels are ideal for adding additional sound absorption to bring the noise level down.



Setting the tone and feeling

Hallways design solutions

When designing hallways in cinemas, it is essential to think about the shared strength of sound absorption and sound insulation. When a room combines the two acoustic elements, it reduces the amount of noise that is transferred from one room to another. This is vital for not irrupting the movie-going experience.

Product Highlight

Rockfon dB

Our dB range of high absorbent acoustic tiles has a stone wool core with a high-performance membrane on the back which reduces the transmission of noise from room to room.

The varying tiles provide increasing levels of sound insulation and sound absorption so you don't need to worry about people in the cinema being disturbed by noise from the hallways.



The Color-all range offers the well known benefits of Rockfon acoustic solutions including the highest sound absorption, Class A, and best in Class A1 fire reaction.

Philip McCabe,
Development Director for Principal Contractor,
Britannia Construction

Acoustic design tips

Three acoustic design tips to improve the acoustic environment in movie theatre hallways.

- 1. Have sound barriers separating the hallways from the lounge and ticket area.
- 2. Ensure that you have dense soundabsorbing materials on the ceilings and on the walls.
- 3. Play around with the design of the ceiling to create a warm and inviting atmosphere.





Here are some products we recommend

Rockfon Color-all®

Be colourful and become personal. It comes in 34 exclusive colour of acoustic ceiling and wall solution to enhance your interior design.

Rockfon® VertiQ® Wall Panel - black

Attractive and durable wall panel is highly sound absorbent and impact resistant. You have the freedom to choose between different available colour and it can be installed both vertically and horizontally.

The influence of colours

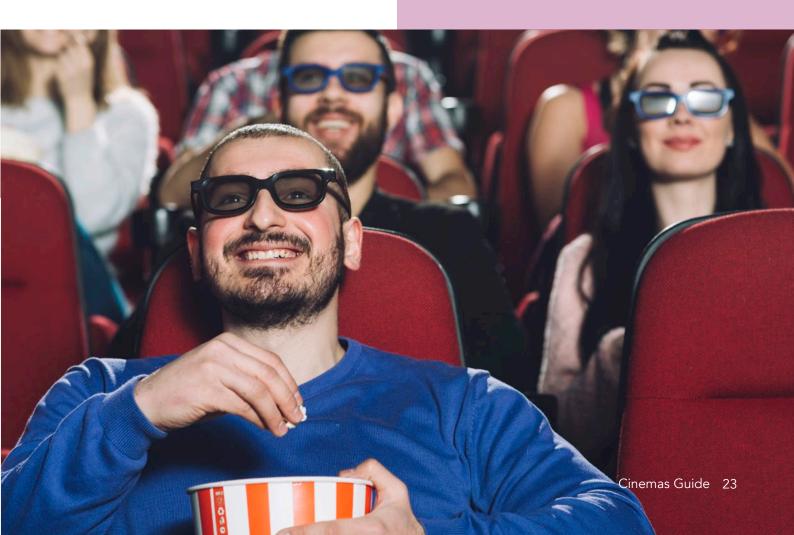
There is nothing worse than watching a movie at the cinema in a poor environment. The audience wants to plunge themselves into what they're watching, and because movie theatres use reflected light to project a film onto the screen, having dark colours on the walls and ceilings is essential. Ambient light, even caused by reflections found on surfaces in the screening room can be distracting for audiences.

Down with the reverberation time, up with the feeling

One of the most important things to think about when designing a screening room is sound reflection. It is important to stop reflections happening between the walls because it really interferes with the sound experience and immersion of the audience. A great way to help control reverberation is with acoustic solutions both on the ceilings and walls. This will help stop sound from bouncing off the hard surfaces and ruining the true sound experience.

The matt black colour of the Charcoal fleece is an excellent solution to create the dark environment required to prevent the projector light reflecting on to the screen.

Philip McCabe,
Development Director for Principal Contractor
Britannia Construction



Get the perfect harmony of colour and acoustics

Cinema room design solutions

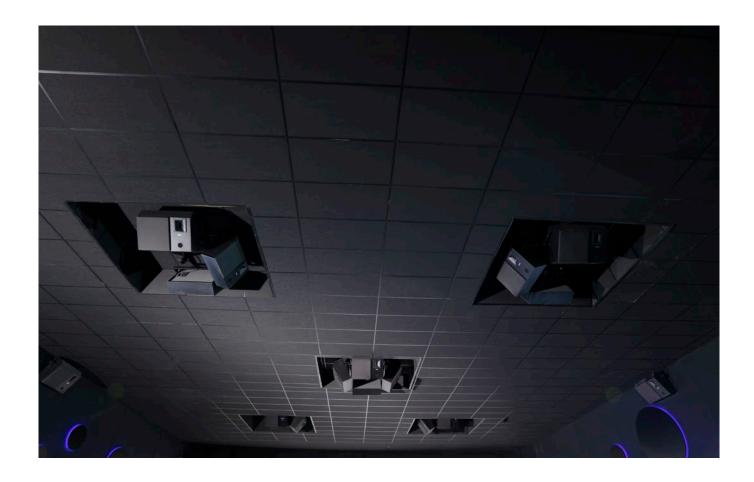
To get the atmosphere just right in a screen room, dark colours, matt surfaces and great acoustics are a necessity. It is vital to control reverberation in the space to enhance the moviegoing experience.

Product highlight

Rockfon Color-all® Grid

Our Rockfon Color-all grid comes in 34 colours and the textured surface drastically reduces reflections that are found on metal surfaces by diffusing the light, suppressing the enhancing the colour finish.

This surface gives you an elegant and almost monolithic look, even if you choose to have an acoustic ceiling tile with a visible grid.





CASE STUDY

Cineworld

London, United Kingdom

Challenge:

As one of the UK's leading cinema chains, Cineworld wanted to provide a memorable experiences for its visitors. To fulfil the design and acoustic demands, Cineworld had to enhance the atmospheric sound and light conditions throughout the movie theatre.

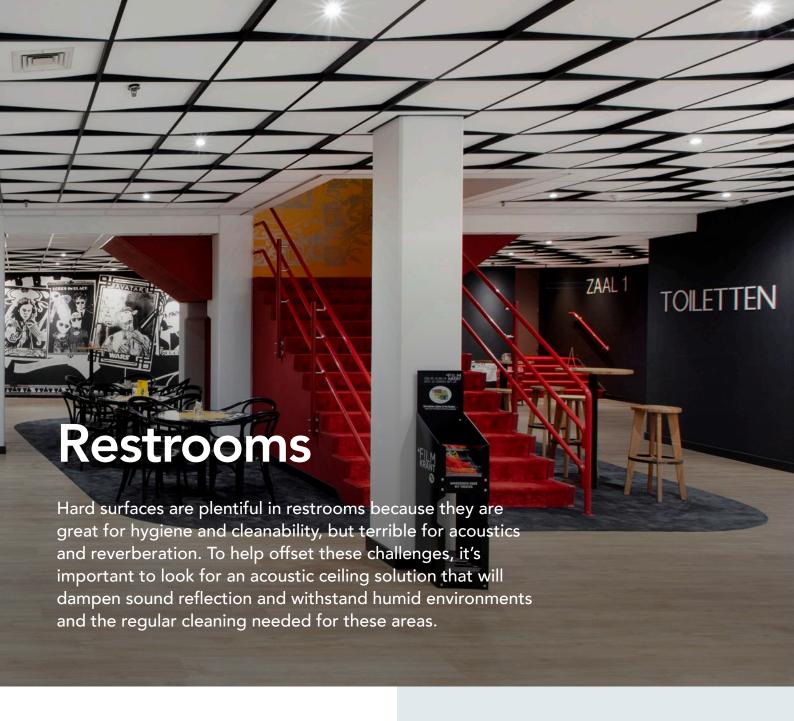
Solution and results:

For superior acoustic control, Cineworld installed Rockfon Color-all® tiles in the screening room. Rockfon Color-all® was able to create the perfect dark environment required for the reflected light to show on the screen. The tiles were installed at an angle to the walls to create a dramatic diamond effect.

Acoustic design tips

Three acoustic design tips to improve the acoustic environment in screening rooms.

- 1. Use a high-sound absorbing material on the ceilings and walls that have a matt surface to avoid creating reflections.
- 2. Choose heavy fabrics for the seats and curtains.
- 3. Cover the floors with carpet to avoid leaving hard, reflective surfaces exposed.



Don't underestimate the restrooms

To control noise in bathrooms, it's important to find an acoustic solution that will dampen sound but that can also withstand thorough cleaning, which is tough on the material. It is also essential that the building materials used in the bathrooms don't contribute to the spread of microorganisms.

Acoustic design tips

Two acoustic design tips to consider when designing restrooms.

- 1. Use sound-absorbing solutions that meet the most rigorous hygiene codes and safety regulations and that are resistant to mould and bacteria.
- 2. Make sure sound absorption is high to avoid that sound is bouncing off the surfaces.

Here are some products we recommend

Rockfon Blanka®

The whitest ceiling tiles offering you the best acoustic properties to ensure a comfortable noise level. The super white and smooth surface offers edges and dimensions to complement every space. It helps you to capitalise on natural light and it looks as stunning as it sounds. A possibility to reflect your vision and still have the best-in class ceiling.

Rockfon® MediCare® Standard

An outstanding balance of acoustic comfort and cleanability that doesn't contribute to the growth of MRSA and ensures low particle emission. By choosing a ceiling solution that is resistant to mould and bacteria, you ensure a safe space.

Rockfon Color-all®

Our Rockfon Color-all range comes in 34 exclusive colours of acoustic ceiling and wall solutions to inspire and enhance your interior design scheme.

Rockfon® Sonar®

It's attractive micro-textured white surface, with strong edges for superior durability creates a comprehensive range of aesthetically pleasing tiles.



Cinema product specs and where to use them

Let's take a final look at the products and rooms that you've just seen

	W	W	W	₩			
Properties	Rockfon® Mono® Acoustic	Rockfon Blanka®	Rockfon Color-all®	Rockfon® Koral®			
Surface durability	-	Enhanced durability and dirt resistance. Wet-scrub resistance	-	-			
Cleaning	Vacuum	Vacuum - Damp cloth	Vacuum	Vacuum - Damp cloth			
Hygiene	Stone wool provides no sustenance to microorganisms						
Sound absorption	α_{w} : up to 1.00 (Class A) NRC=0.90	$\alpha_{w}\!\!:$ up to 1.00 (Class A) NRC= Up to 1.00	$\alpha_{\rm w}$: 0.95 (Class A) NRC= Up to 0.95	$\alpha_{\rm w}$: up to 0.95 (Class A) NRC = up to 0.90			
Light reflection	87% light reflection >99% light diffusion	87% light reflection >99% light diffusion	Colour-dependent	86%			
Humidity and sag resistance	Up to 100% RH						
Environment	Recyclable						
Reaction to fire	A2-s1,d0	A1	A1 Precious: Class A2-s1,d0	A1			
Impact resistance	-	Class 3A (Fastening clip)	-	-			
Direct sound insulation	R _w = 22 dB	-	-	-			

^{**} C - centre distance between baffle rows, H - suspension height: net distance between baffle and soffit

Rockfon® MediCare®	Rockfon Eclipse®	Rockfon® Universal™ Baffle	Rockfon® VertiQ® wall panel	Rockfon® Tropic™	Rockfon® Sonar®			
Standard	Eclipse	Universal Battle	vertiQ wall panel					
-	-	-	-	-	-			
Vacuum - Damp cloth	Vacuum - Damp cloth	Vacuum	Vacuum	Vacuum	Vacuum - Damp cloth Chemical resistance: resistant to diluted solutions of ammonia, chlorine and hydrogen peroxide			
Stone wool provides no sustenance to microorganisms								
α _w : up to 0.95 (Class A) NRC=0.90	A _{eq} (m²/item)	A _{eq} (m²/item) C, H**	α _w : 1.00 (Class A) NRC = 1.00	α_{w} : up to 1.00 (Class A) NRC= up to 1.00	$\alpha_{\rm w}$: up to 1.00 (Class A) NRC= Up to 1.00			
86%	87% light reflection (rear side: 79%) >99% light diffusion	White (77%) Charcoal (4%) Color-all (Colour dependent)	White 72% Lightgrey 61% Grey 33% Black 5%	86%	85%			
Up to 100% RH								
Recyclable								
A1	A1 Rockfon Eclipse Rectangle 2360: A2-s1,d0	A2-s1,d0	A2-s1,d0	A1	A1			
-	-	-	-	-	-			
-	-	-	-	-	-			

The right product in the right space

Going to the movies is more than just about seeing a movie, its about having an experience. More and more we're seeing how acoustic solutions can create comfortable surroundings and soundscapes to give the best movie experience for customers. Please look at our overview to see what products we recommend for the perfect combination of wellbeing and acoustic comfort in movie theatres.



ENTRANCE AND TICKET AREA

Noise control

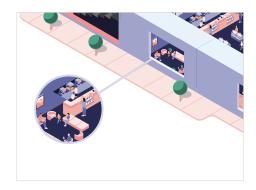
Rockfon® Mono® Acoustic

Rockfon Blanka®

Rockfon Color-all®

Rockfon Eclipse®

Rockfon® Sonar®



CONCESSION STANDS AND LOUNGE

Noise control & speech clarity

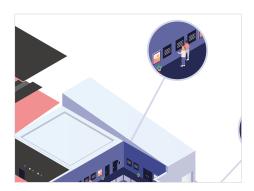
Rockfon® Mono® Acoustic

Rockfon Blanka®

Rockfon Color-all®

Rockfon® Universal™ Baffle

Rockfon® Sonar®



HALLWAYS

Noise control & sound insulation

Rockfon® Mono® Acoustic

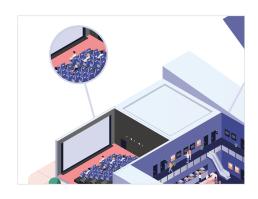
Rockfon Blanka®

Rockfon Color-all®

Rockfon Eclipse®

Rockfon® VertiQ® wall panel

Rockfon® Sonar®



SCREENING ROOM

Noise control

Rockfon Color-all®

Rockfon® VertiQ®



RESTROOM

Noise control & hygiene

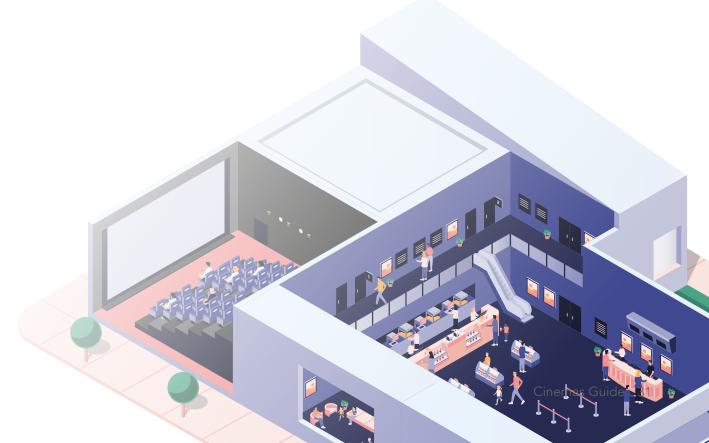
Rockfon Blanka®

Rockfon® Sonar®

Rockfon Color-all®

₩ Rockfon® Tropic[™]

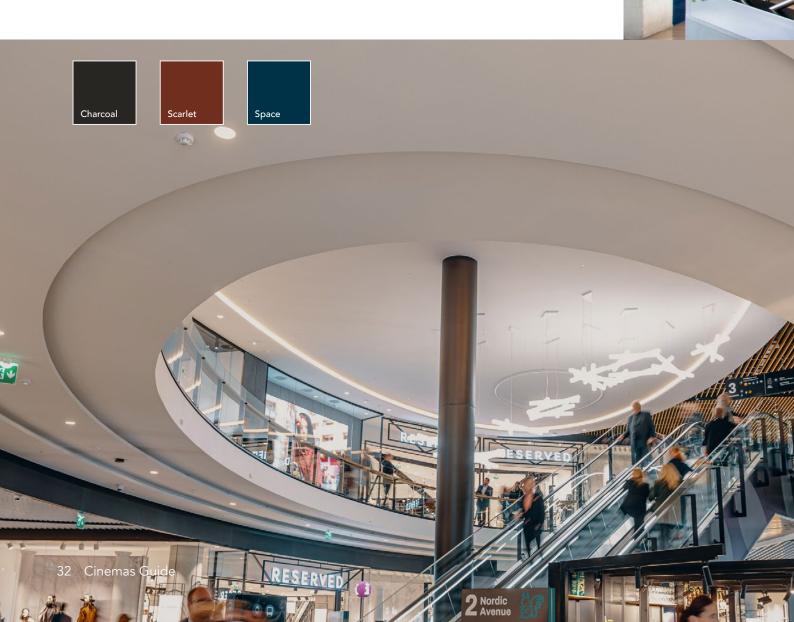
Rockfon MediCare®



The influence of Rockfon Color-all®

Want to enhance wellbeing and ambience by using colour? Our coloured ceilings and wall solutions don't just reduce noise, they also help create unique spaces. The range comes in 34 exclusive colours and that inspire and enhance your interior design, giving you the possibility to set the scene for your visitors.

- Choose from everything from subtle to bold longlasting colours
- An extensive range of semi-concealed and concealed edges in a large variety of module sizes
- Bring a splash of colour to the walls and set the feeling to make your design standout

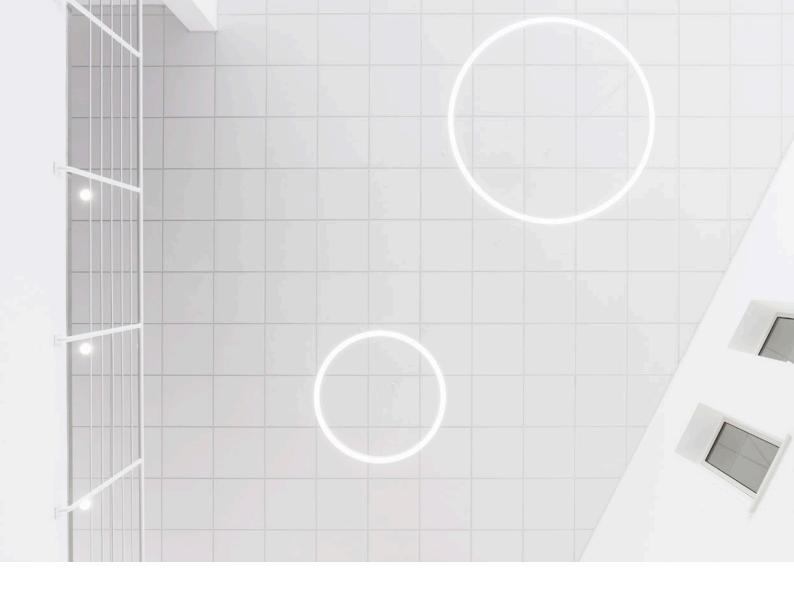




As stunning as it sounds Rockfon® Mono® Acoustic

Be creative and make the entrance area visually dramatic for the cinema goers.

Mono by name, multiple by nature. A unique design solution for new build or renovation projects. The innovative monolithic surface is perfect for ceilings and walls as it delivers outstanding acoustic comfort. The refined white surface provides a crisp and clean aesthetic to the space as well as it allows easy integration of lighting, air conditioning and ventilation systems.



The power of Rockfon® Blanka

A bright, white ceiling that looks and sounds stunning.

With Rockfon Blanka®, you get a smooth, deep matt and superwhite surface with high light reflection and light diffusion. The range comes in multiple dimensions and edges for full design flexibility. It's available in different thicknesses, making it optimal for busy environments, where sound needs to be controlled.

The acoustic ceiling tiles are engineered to create a noticeably brighter and more comfortable indoor environment so you don't have to choose between design and functionality as it also contributes to 23 % energy savings.

The design freedom of Rockfon Eclipse[®]

Want to add some great acoustics and design to your space? Then we've got just the thing. Our innovative frameless acoustic islands is available in a variety of geometric shapes. The clean minimalistic A-edge keeps everything looking clean and sharp. A great complement to improve speech intelligibility that can be combined with colour for a fun design. These can be suspended alone or under a traditional acoustic ceiling.

- Available in a variety of shaped formats with a clean minimalistic A-edge
- Comes in an unlimited custom colour range using NCS
- Quick and easy to install



We are your sustainability partner

Sustainability sits at the heart of our research and development. It's why we use natural stone, constantly reduce our carbon footprint and recycle to look after our planet and our people.

Commercial buildings are an expensive investment, leading many property developers to choose sustainable building materials to stabilize the value and lifecycle of their investments. Luckily for us, over 90% of our products have a Cradle to Cradle certification at the Bronze and Silver level, meaning that when you choose Rockfon, you're getting more than just a great product, you get a real commitment to a more sustainable future.

Stone wool is a fully sustainable closed-loop product. It can be recycled again and again without any degradation in quality. We offer all our customers to recycle old stone wool ceiling tiles and cut-offs from installation, helping make a meaningful contribution to a greener planet.

Visit our webpage for more information about our takeback scheme.



159 000 tonnes of stone wool were collected for recycling in 2019.



Figi Hotel Theatre

Zeist, Netherlands

Challenge:

The old theatre needed to renovate their theatre foyer. The interior architect Gerben van der Molen didn't only want a beautiful ceiling that suited well in the creative setting, but also seek sustainable solutions.

Solutions and results:

The completely renovated foyer uses the technology from 3D application to create an eye-catching ceiling from exiting panels and profiles. It gives a new life to existing materials and creates a decorative image with a chic and dynamic ceiling.

CASE STUDY \



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 whoa for better experiences

Every day we are inspired to innovate with sound solutions that help people think concentrate and enjoy life more. Our acoustic solutions do more than reduce noise, they create comfortable surroundings to give the best movie experience for your customers.

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 office project.



38 Cinemas Guide

We are your sustainability 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 office project.

Our online resources

Explore our website for sound calculations, instruction videos, documents, and a comprehensive BIM library with objects compatible with ArchiCAD and Revitt.

Speed up your design processes with this free to use support on:

Rockfon Middle East : ae.rockfon.com Rockfon Asia : www.rockfon.asia

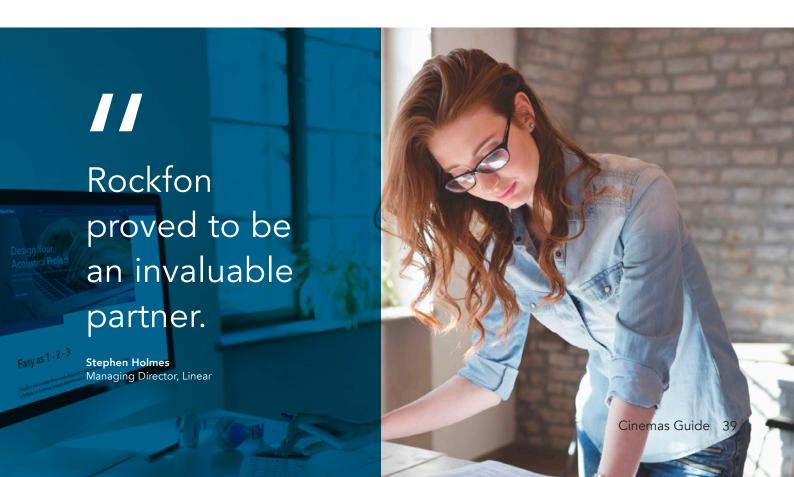
Let's connect

Give us a call whether you need advice on getting the right acoustic environment for your project, want to hear more about one of our products or just need technical support.

We're here to help.

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Sounds Beautiful

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