Rockfon

Acoustic Solutions for Hospitals

Hygienic and high-performing acoustic solutions to improve patient recovery and caregiver well-being

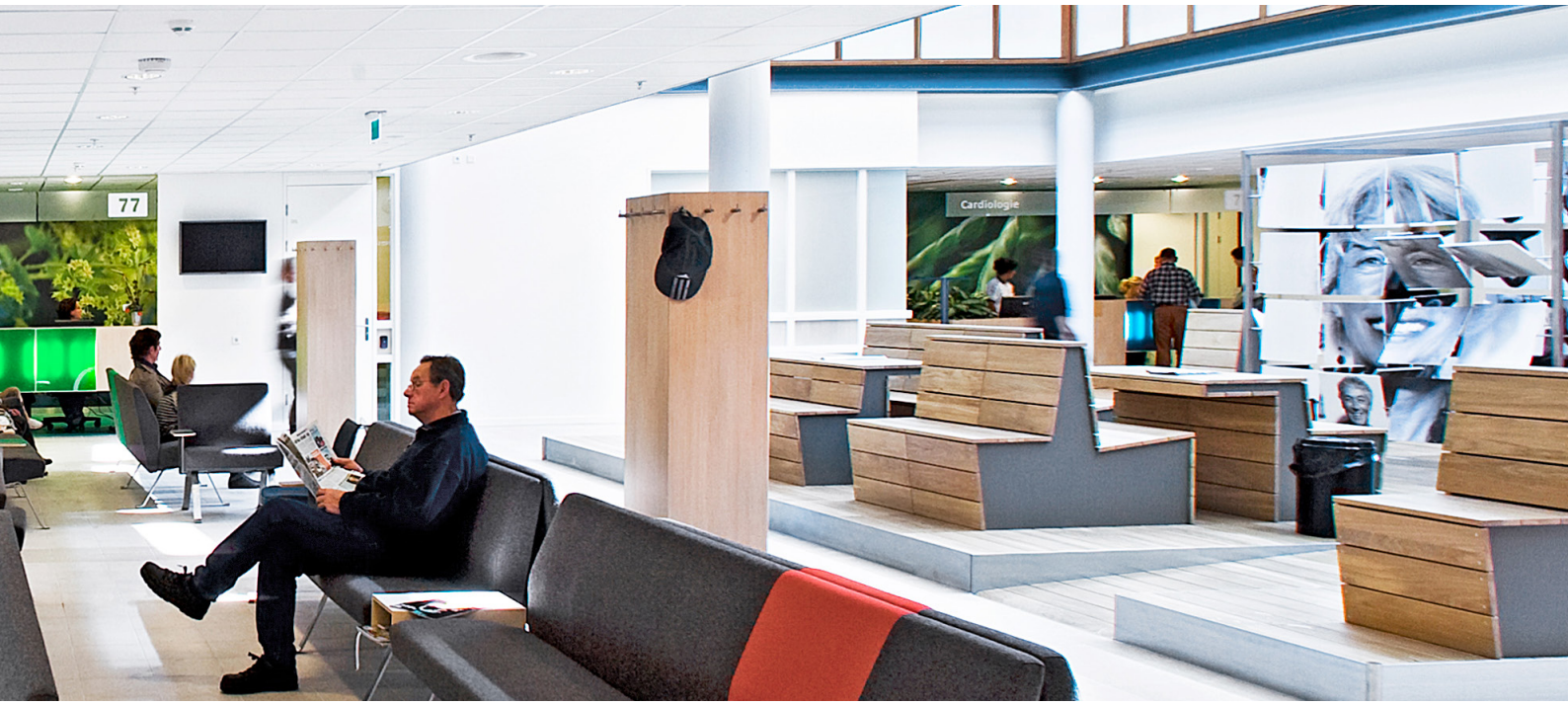
Project Deventer Hospital, the Netherlands / **Product** Rockfon® MediCare®

Transforming hospital interior design for the future
Healthcare design has become increasingly crucial in shaping patient outcomes and satisfaction. For patients, thoughtful design conveys comfort and can ease anxiety. For caregivers, it can promote an improved workflow and collaboration.

In this guide, you'll learn more about how acoustic solutions can support healing architecture. Discover trends in hospital design, critical insights, and essential knowledge, as well as ideas for making acoustic performance a priority – whether in a new build or a retrofit project. And finally, you'll be able to explore the most suitable solutions for your project.

> Well-being is at the heart of everything we do. Our high-performing and hygienic acoustic solutions support healing in hospitals.

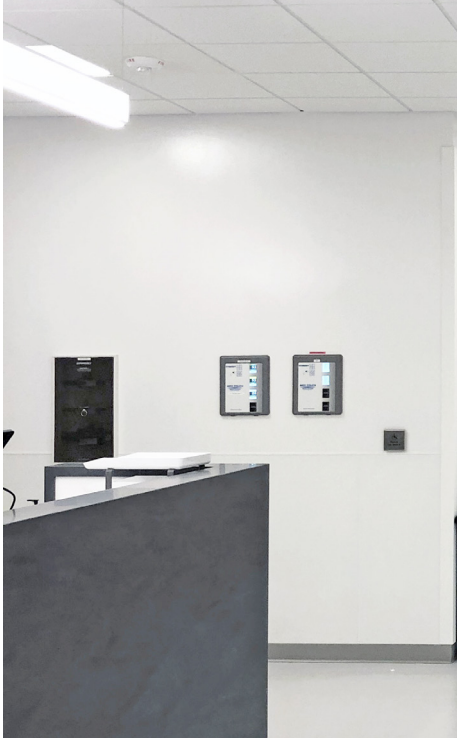
Parik Chopra, Managing Director, Rockfon



Content

Emerging Trends in Healthcare Design 4
Overview: Room Types 6
Reception Area 8
Hallways & Breakout Areas 12
Waiting Area 16
Nurse Station 20
Patient and Examination Rooms 24
Critical and Specialist Areas 28
Educational Spaces 34
Canteen & Café 36
Bathrooms & Locker Rooms 40
Parking Garage 42
Product Overview 44
Our Sustainability Goals 48
Our Services 50

Emerging Trends in Healthcare Design



Developing a pleasant atmosphere for patients and their caregivers

Well-being is an objective across all facets of hospital interior design, and the field continues to evolve for urgent digital transformation and sustainability needs. In this chapter, we take a deep dive into these trends and see how they can better satisfy the needs of patients, visitors, and staff.

Project Deventer Hospital, the Netherlands / **Product** Rockfon® MediCare®

Well-being for both patients and caregivers

It is incontestable that there is a strong link between interior design and well-being. Environmental factors like noise level, lighting, air quality, access to greenery, colours, and texture work together to accelerate patient recovery and reduce caregiver stress. And, with post-pandemic health concerns, hygiene matters more than ever.

How can we help?

Our 60 years of experience in delivering top-notch acoustic solutions is coupled with a commitment to designing products that enhance well-being. Our solutions not only look great but are also designed to meet the most rigorous hygiene requirements, especially in the healthcare sector. Our products have the potential to make a real difference for patients and staff alike – improving experiences, reducing stress, and encouraging relaxation for everyone.

Flexibility 2.0 for future demand and digital transformation

The pandemic prompted the quick implementation of digital healthcare solutions for in-person interactions, exhibiting the important quality of agility and flexibility in hospital design and management. Floor plans that allow for quick spatial changes and reuse are becoming prioritised.

How can we help?

Our products are modular, customisable, and demountable and are available in multiple formats, edge types, and colours. This allows them to be installed and modified with ease while meeting the hygiene codes required in hospitals. In other words, we offer full creative freedom and flexibility to future-proof your digital-first hospital.

Sustainability

In line with ambitious energy targets, the healthcare sector is responding to urgent environmental needs with increased efforts to reduce its carbon footprint. These include enhanced ventilation, optimal thermal conditions, increased exposure to daylight, blue-enriched lighting, and environmentally-friendly building materials.

How can we help?

Rockfon products are made from naturally sourced, long-lasting stone wool, with 29% to 64% recycled content in a closed-loop manufacturing process. We also have recycling systems in place and resources to assist in eliminating waste in landfills. By using our products, you can earn credits towards building rating schemes while leaving a positive impact on both individual well-being and the planet as a whole.

Designing the Different Spaces of a Hospital

Reception Area / 8

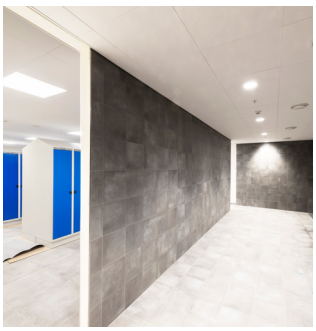
Hallways & Breakout Areas / 12

Waiting Area / 16

Nurse Station / 20

Patient and Examination Rooms / 24

Bathrooms & Locker Rooms / 40



Educational Spaces / 34

Critical and Specialist Areas / 28

Canteen & Café / 36

Parking Garage / 42

ACOUSTIC DESIGN SOLUTIONS FOR HOSPITALS

Hospitals are busy places, serving a large number of people on a daily basis while accommodating different functions. This adds to the complexity of the structure and has an impact on how a hospital is designed.

The necessity to satisfy different demands is one of the most difficult challenges that architects face when designing a hospital. The patient's room must be pleasant and relaxing for their comfort. Caregivers must be able to move through the space swiftly and efficiently. Family and other visitors must have a place to wait without interfering with the attending staff's productivity or the patient's recovery.

Additionally, the surgical areas must also be designed to meet the specific technical requirements and provide a safe environment for undergoing procedures.

Reception Area

The first touchpoint at the hospital

Echo feelings of calm and safety
Visiting a healthcare facility can be a stressful experience. This means that the reception area should make every effort to put visitors at ease as soon as they walk in. A welcoming reception desk and comfortable visitor chairs might help achieve this.

Furthermore, natural light and biophilic elements, such as indoor plants or art with a warm, earthy colour palette, can help inspire patients while assisting concierge efforts.

Maintain patient confidentiality
The acoustics in the reception area is essential because of the high level of conversation and foot traffic, as well as sound reverberation problems caused by hard surfaces frequently utilised in these areas.

Furthermore, upon entering a medical facility, visitors are frequently asked personal questions that can make them feel self-conscious and uneasy. A well-designed reception area provides patients with the privacy they need.

And, by including acoustics in the design process from the start, you can ensure both privacy and speech clarity while maintaining visual appeal.

Project Children's Hospital, Medical University of Warsaw, Poland
Product Rockfon® MediCare® Plus

CASE STUDY

NHS Blood and Transplant Centre, Barnsley, Yorkshire, UK

Challenges

The centre was commissioned under the ProCure 22 Framework, and carries out cutting edge research and specialist services to 39 hospitals in the north of England. It includes specialist training and testing laboratories which require acoustic comfort and strict infection control practices.

Architect IBI Group
Products Rockfon® Medicare® Standard

Solutions and Results

The Rockfon MediCare range was specifically developed for the demands of healthcare environments and was used throughout the Centre. Fully compliant with HTM 60, it meets the classifications of all clean-room facilities.

Like many healthcare environments, the ceiling voids in the corridors were heavily serviced. Contractors, Kier, specified Rockfon System Maxispan with Rockfon MediCare Plus in 2400x600mm plank format which provided easier access to the void, reducing the risk of damage. The use of longer tiles also creates a more seamless appearance and is cost effective due to there being less grid components.

In the laboratories and other parts of the Centre, Rockfon MediCare Standard was used. This ensures low particle emission (ISO Class 5), offers best in class sound absorption (Class A) and the highest fire safety rating (Class A1).

Project Southmead Hospital in Bristol, England

Our Product Recommendation

Rockfon® Mono® Acoustic

A monolithic design solution, perfect for ceilings and walls
This is our most unique acoustic ceiling solution, adding a timeless touch to the interior. It can be shaped to suit your creativity – from domes to vaulted ceilings, from curves to origami shapes. It also provides 87% light reflection and 99% light diffusion, bringing natural light inside while reducing energy usage during the day.

KEY TAKEAWAYS

- Class A sound absorption
- Curve the surface to as little as 1500 mm radius
- Install sloping, flat, or curved in a suspension grid or mount directly
- Cradle to Cradle Certified® Bronze

Patients in hospitals have demonstrated higher levels of agitation in rooms with less light.

Source Anjali Joseph, Ph.D., EDAC, Director of Research, The Centre for Health Design

Project Uppsala University Hospital, Sweden
Product Rockfon Blanka®

Other products to consider:

Rockfon Blanka® Activity

Speech intelligibility is crucial in places where noise and activity levels are high. This acoustic tile has a thickness of 40 mm, making it ideal for controlling the sound level at low frequencies, particularly in busy areas.

Rockfon Color-all®

This range of acoustic tiles is available in our curated collection of 34 colours, allowing you to enhance your interior design theme while also controlling sound reverberation.

Rockfon® Lamella™

Lamella offers a selection of sizes and wood veneers to create an elegant solution with a distinctive design rhythm. The modular "click-in" system makes it simple to install. Lamella also has an excellent acoustic performance helping projects meet health and wellness building standards.

4 design tips for the reception area:

1. Use Class A acoustic ceiling and wall solutions to maintain privacy and improve speech clarity.
2. Emphasise corporate culture and identity by integrating different building materials, colours, and designs.
3. Incorporate biophilic elements, such as plants and natural textures, as well as different materials and colours to foster well-being while breaking up the space.
4. Use soundproof glass doors and windows to block the sounds that leak in from busy streets.

Hallways & Breakout Areas

The busy arteries of a hospital travelled by patients, visitors, staff, medical equipment and trolleys

Keep the hustle and bustle separate

Breakout areas offer a much-needed break for both staff and visitors. These spaces provide a change in scenery and a retreating space to escape to when stress is high in the hospital.

Make the silent pathways interesting

Corridors double as a path through the hospital and a natural extension of the experience. With the use of biophilic elements, colours, and textures, we can retain the elegance of these pathways while providing a soothing atmosphere. Because hospital corridors execute so many duties they require a high-functioning and proactive design, emphasising mobility and convenient access to the plenum, where all building services are hidden.

Keep the access limited

Privacy and safety are paramount in hospitals. All zones should be separated with appropriate permissions and controls in place. Video surveillance is necessary to keep an eye on every nook and cranny of the facility.

Project Emma Children's Hospital in Amsterdam, the Netherlands
Products Rockfon® Mono® Acoustic, Rockfon Blanka®, Rockfon® Tropic™

CASE STUDY

Children's Hospital
Medical University of Warsaw, Poland

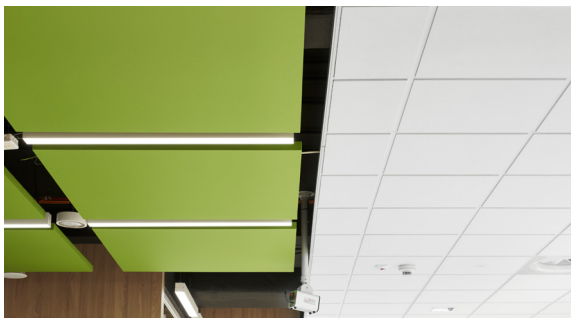
Challenges

The walls, equipment, and noise in the hospital can be intimidating for children, making it a challenge to calm and prepare them for visits and examinations. It's not surprising that certain hospitals are exclusively designed for children, with an increased focus on providing psychological support through an array of amenities and facilities including indoor parks, interactive installations, and artwork.

Solutions and Results

The reception areas of hospitals are busy, noisy places, with high foot traffic – generating a harmful cocktail of noise. To control the noise level at the Children's Hospital of Medical University of Warsaw, the acoustic ceilings Rockfon MediCare Plus and decorative acoustic islands Rockfon Eclipse Colour were installed to create a comfortable atmosphere.

"In the IPCZD project, Rockfon ceiling tiles play a very important role – they emphasise the character of the interior. In the communication and sanitary spaces, white and full suspended ceilings were used to brighten the room and separate spaces. In staff rooms and in the cafe, we installed acoustic ceiling islands to create a less 'hospital-like' atmosphere," said the project architect Aleksandra Czubaszek-Siluch.



Architect Aleksandra Czubaszek-Siłuch from Kuryłowicz & Associates
Products Rockfon Eclipse® Colour, Rockfon® Koral™, Rockfon® MediCare® Plus

Project Children's Hospital,
Medical University of Warsaw, Poland

Our Product Recommendation

Rockfon® MediCare® Standard

An outstanding balance of acoustic comfort and cleanability for use in healthcare environments
Rockfon MediCare Standard fulfils all standard cleaning and hygienic requirements in healthcare settings. It doesn't contribute to the growth of MRSA and ensures low particle emission, guaranteeing a healthy environment. Rockfon MediCare Standard is available in a standard range of tile dimensions with semi-concealed and visible grid options.

KEY TAKEAWAYS

- Class A sound absorption
- A1 fire resistance standard
- Microbiological class M1
- Clean Room Classification: ISO Class 5
- Visible side: micro-textured, white-painted fleece
- Rear side: back fleece
- Painted edges

Project Lincoln University Medical School, Lincolnshire, UK
Product Rockfon Eclipse®

Other products to consider:

Rockfon Contour®

These frameless acoustic baffles are ideal for areas where architecture, skylights, or other design elements don't allow for a suspended ceiling. They are also suitable for spaces that require frequent and unhindered access to services.

Rockfon Eclipse® Customised

It is the ideal solution for bringing a new aesthetic dimension to any space while improving acoustics. The sky is the limit as this versatile range of stone wool islands can be customised in any shape and colour.

Rockfon® VertiQ® wall panel

The VertiQ wall panels are a cost-effective solution for increasing sound absorption, for example, where suspended ceilings are out of the question or impossible. These appealing, impact-resistant, highly sound-absorbent wall panels are perfect for busy corridors. Four distinct colours are available.

Rockfon® System Maxispan T24 A,E™

This strong and stable grid installation system is perfect for wide corridors. Perfect for single spans typically up to 3 metres wide, it provides quick and easy access to the ceilings for installing security equipment, inspection, and maintenance.

3 design tips to improve the hallways and breakout areas:

1. Use Class A acoustic ceiling and wall solutions to reduce sound travel and keep noise to a minimum.
2. Use coloured acoustical ceilings to enhance both aesthetic appeal and wayfinding.
3. Hang art acoustic wall panels on the vertical surfaces or bring in plants to soothe the senses while soften echoes.

Waiting Area

Significantly enhancing the commitment to patient-centric care

Patient comfort goes far beyond a comfortable chair

Because patients and caregivers spend so much time in the waiting area, the space can significantly contribute to their well-being and overall hospital experience. Natural lighting and views of the outside are highly desirable, in addition to comfortable furniture and a peaceful atmosphere. The availability of seating options may also enhance the patient's experience. And, technology options should be available, allowing people to be connected and plugged in to ease the stress of passing time.

Focus on hygiene to mitigate cross-infection

Cross-infection control is another important requirement in waiting areas. Ideally, patients with infectious diseases should be kept separate from other patients, especially those who are more susceptible to infection. Textiles and surface materials should be non-porous and have as few seams and catch points as possible. They should also be able to withstand frequent cleaning with harsh disinfectants.

Project Thames Hospice in Maidenhead, England
Product Rockfon Eclipse®

CASE STUDY

Morriston Hospital
Swansea, Wales

Challenges

Swansea's Morriston Hospital underwent a 102 MGBP makeover as part of an ambitious initiative to restructure hospital care in Southwest Wales.

Solutions and Results

Rockfon ceiling solutions are installed throughout the hospital including in the impressive main atrium in the outpatient department.

"BAM Construction had already chosen Rockfon for its outstanding acoustic performance, cost, and infection control properties. The use of Rockfon Eclipse helps keep reverberation levels to a minimum in this busy area. This product line provides a fascinating sculpture which lends patterns of light and visual variety to the large space," said Design Manager Mike Sealey.

The Rockfon MediCare Plus tiles are installed in all wards, treatment rooms, corridors, and dental school rooms. They exceed all essential hygiene requirements in healthcare environments and comply with the Department of Health's HBN and HTM guidelines.

Architect IBI Nightingale
Products Rockfon® MediCare® Plus, Chicago Metallic™ T24 Click 2890, Rockfon Eclipse®

Our Product Recommendation

Rockfon® Canva™

Combine hygiene and acoustic performance in a single design element
Choose from our palette of 34 contemporary Colours of Wellbeing or create a custom canvas with your choice of a brand logo, product, artwork, message, or signage – Rockfon Canva offers unlimited design freedom.

Furthermore, Canva's modular structure and detachable canvases allow you to machine wash, dust, vacuum, or disinfect with anti-bacterial wipes. With wall panels, floor screens, and hanging dividers within the range, they offer an intelligent way to create clean, adaptable, feel-good art pieces with excellent acoustics.

KEY TAKEAWAYS

- Class A sound absorption
- Canvas is changeable and machine-washable
- Custom canvas design possible
- Customisable frame size
- Low emission rates with M1 and A+ certification

Product Rockfon Blanka®

Other products to consider:

Rockfon® CleanSpace™ Essential

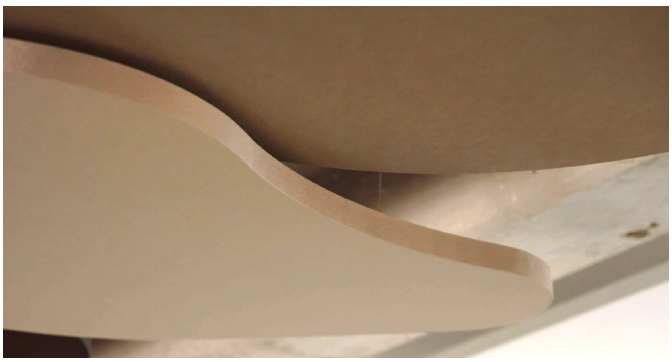
CleanSpace Essential is a cost-friendly and long-lasting ceiling tile solution that is suitable for a variety of room types. Not only does this tile fulfil the highest demands in terms of cleanliness but it also has enhanced acoustic properties, contributing to an infection-free indoor environment.

Rockfon Blanka® dB

This range of acoustic tiles has a high-performance membrane on the back, reducing the transmission of noise from area to area. The tiles also vary in width to provide increasing levels of sound insulation and sound absorption, suitable for different needs.

Rockfon Eclipse® Customised

An ideal solution for bringing a new aesthetic dimension to any space while improving acoustics. The sky is the limit – this versatile range of stone wool islands can be customised in any shape and colour.

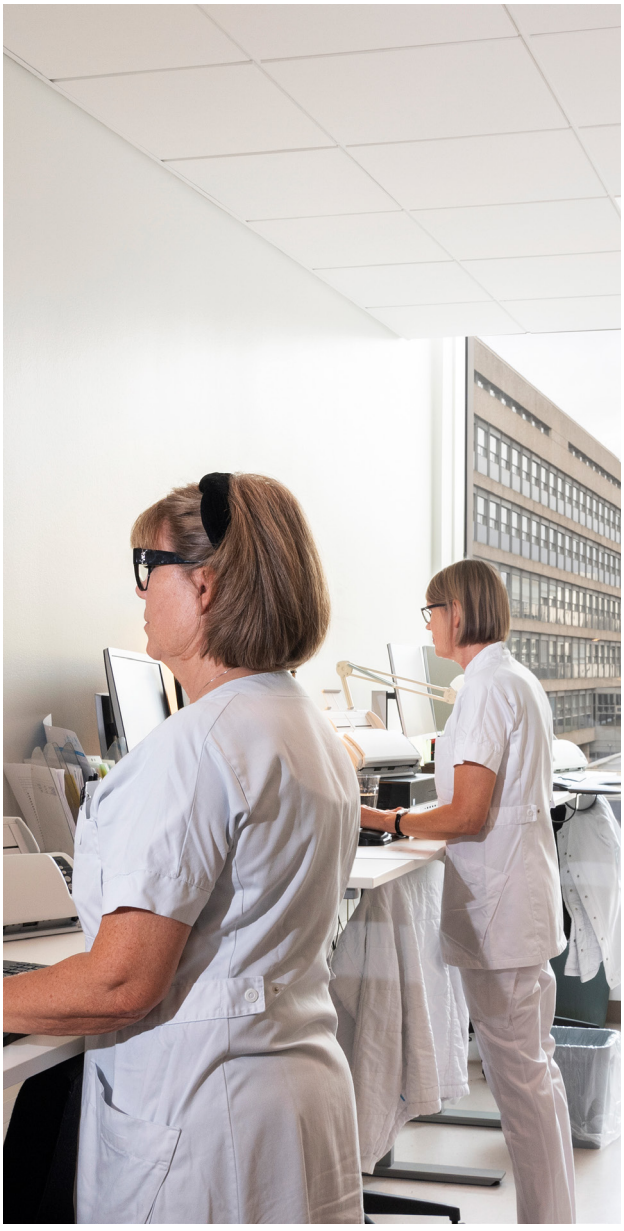


3 design tips for hallways and breakout areas:

1. Use Class A acoustic ceiling and wall solutions to reduce sound travel, keeping the noise to a minimum.
2. Install sound barriers to separate these areas from the rest of the hospital.
3. Incorporate biophilic elements, such as plants and natural textures, as well as different materials and colours to mitigate stress while breaking up the space.

Nurse Station

Critical to patient care and the effectiveness of the hospital's overall operations



Allow for control and flexibility

Workstations that can adapt to different work functions are practical and help staff members to remain healthy and productive throughout the day. To tailor the staff workspace to better suit their needs, height-adjustable work desks and ergonomic chairs are both good options, particularly for those who spend a lot of time on their feet. It's also crucial to build stations that meet both fixed and mobile technology needs.

Focus on acoustical comforts

Nurse stations must be acoustically sound. Not only do they need to facilitate collaboration and inspire group interaction but they must also enable successful individual activities. This highlights the importance of creating nurse stations that can easily transform into a serene location, providing nurses with the option to take a moment to relax, think, or have a private conversation when needed.

Project Warsaw Medical Care Centre "KOPERNIK", Poland
Product Rockfon® Tropic™

CASE STUDY

Clatterbridge Cancer Centre
Liverpool, England

Challenges

Clatterbridge Cancer Centre-Liverpool (CCC-L) is the latest addition to the region's cancer care infrastructure. It acts as a central hub for treatments across Cheshire and Merseyside. The centre features state-of-the-art equipment and a dedicated team of healthcare professionals.

The building's design was inspired by Liverpool's maritime heritage, with its sweeping curves reminiscent of a cruise ship. This has earned it the nickname "The Liner".

CCC-L is part of a 162 MGBP investment in cancer care across the region and is one of the largest healthcare projects ever undertaken in Liverpool.

Solutions and Results

The open-plan chemotherapy department offers stunning views of the city. Each patient has a treatment bay kept separate from other patients with the use of a wall divider, with sockets and a Wi-Fi connection available. In such way, patients can choose to be isolated or interact with other patients, family, and friends in the main area.

"Rockfon MediCare Plus was used throughout the building. Rockfon Blanka dB was installed in areas where the walls did not extend to the soffit, necessitating more acoustic insulation. We were very happy with the outcome," said May Ling Smith of Building Design Partnership.

Architect BDP (Building Design Partnership Ltd)
Products Rockfon® MediCare® Plus, Rockfon Blanka®

Project Thames Hospice in Maidenhead, England

Our Product Recommendation

Rockfon Eclipse® Customised

Bring personality, style, and acoustic excellence to your interiors with custom-designed ceiling islands – available in any colour and shape

Manufactured to meet Rockfon's high standards, they don't just transform acoustics, they allow you to set unique accents to the interiors. There are no limits to the creative possibilities.

KEY TAKEAWAYS

- Excellent sound absorption
- Custom design in any shape, size, or colour
- Can be used to anchor lighting
- Quick and easy to install

Project Emma Children's Hospital in Amsterdam, the Netherlands
Products Rockfon® Mono® Acoustic, Rockfon Blanka®, Rockfon® Tropic™

Other products to consider:

Rockfon Blanka® Activity

Speech intelligibility is crucial where noise and activity levels are high. This acoustic tile has a thickness of 40 mm making it ideal for controlling the sound level at low frequencies.

Rockfon Color-all®

Our coloured ceilings and wall solutions don't just reduce noise; they also help create unique spaces. The range is available in 34 exclusive colours, with so many possibilities to set the right atmosphere and enhance the nurse station.

Rockfon® Canva™ Floor screen

With or without wheels, this product grants you the flexibility to configure the nurse station for different work functions – personal work in an enclosed booth or a larger space for group collaboration.

3 design tips for nurse stations:

1. Use Class A acoustic ceiling and wall solutions to reduce noise and fuel concentration.
2. Install sound barriers to separate these areas from the rest of the hospital.
3. Incorporate biophilic elements, such as plants and natural textures, as well as different materials and colours to foster well-being while breaking up the space.

Patient and Examination Rooms

Keeping the patient's comfort, privacy, and confidentiality a priority

Improve speech clarity for a better patient experience

To ensure clear and consistent communication, it is vital to be able to properly hear what is being said between the medical staff and the patient. Noise in patient and exam rooms can easily reverberate off hard surfaces. This heightens the need for high-performance sound absorption and sound insulation in order to maintain privacy and confidentiality.

Incorporate biophilic elements to minimise stress and increase patient outcomes

Research shows that patient rooms with views of nature translate into shorter stays, less medicine dispensed, and overall improvement in the patient's condition. Even artworks featuring nature imagery and palettes lower stress and improve pain relief. Overall, natural touches can create a calming environment, helping patients feel relaxed and employees maintain a sense of order.

Bring multi-purpose flexibility to your interiors

The efficient use of space is crucial. Hence, adding flexible furniture solutions that allow spaces to be easily reconfigured for multiple functions adds value. A flexible patient room, for example, might be converted into a facility that allows for more intensive care. An examination room may also be transformed into a designated and secure area for virtual consultations, supporting the rise of virtual care and telehealth.

> Our ambition is to make it possible to build for people and for better care – not just for institutional requirements.
>
> Parik Chopra, Managing Director, Rockfon

Project Deventer Hospital, the Netherlands
Product Rockfon® MediCare®

CASE STUDY

Forth Valley Royal Hospital
Larbert, Scotland

Challenges

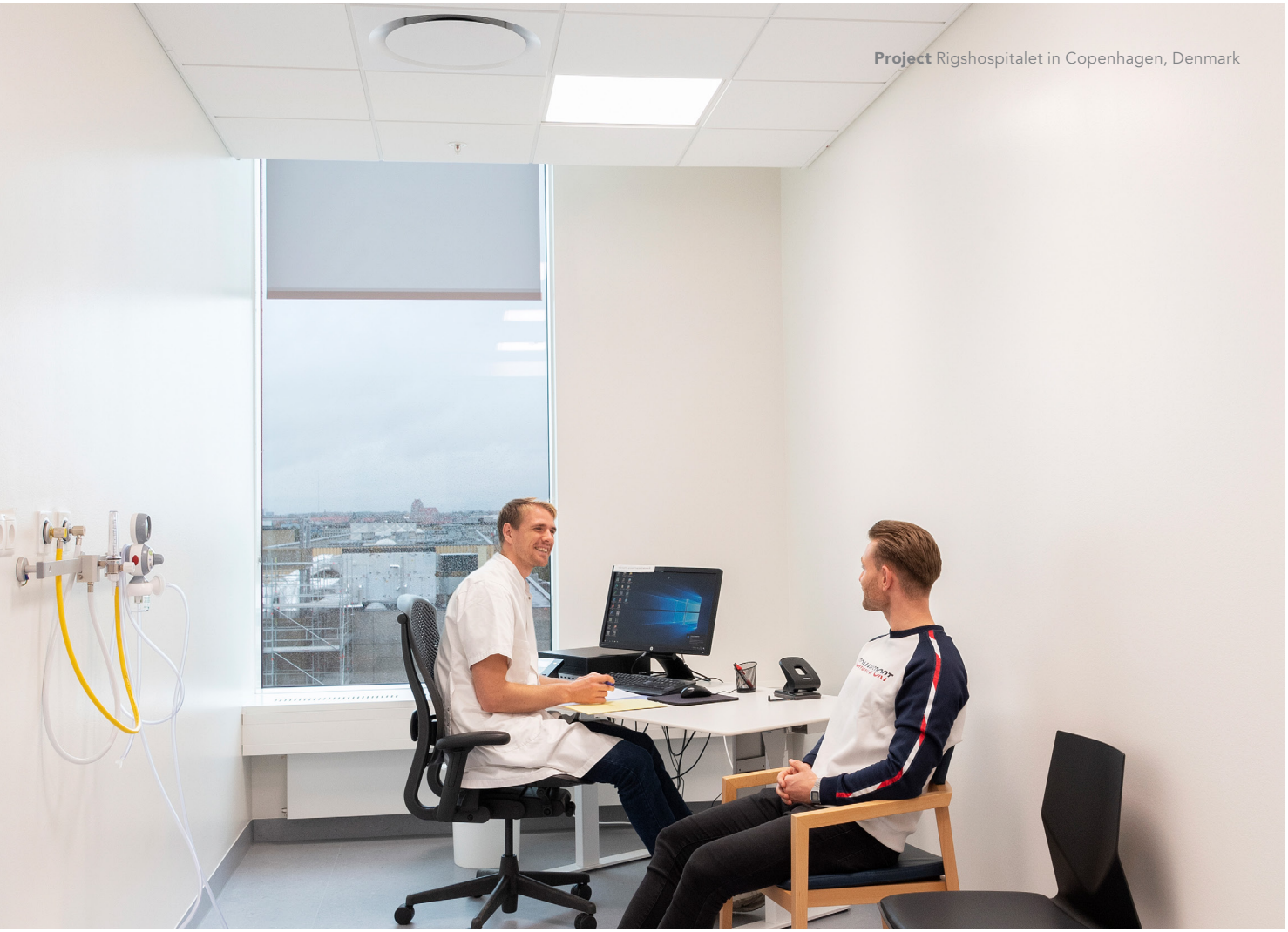
The 300 MGBP hospital brings together acute services in a new, state-of-the-art healthcare facility.

The hospital was constructed by Laing O'Rourke as part of a consortium led by Forth Health (a joint venture between John Laing and the John Laing Infrastructure Fund) and included Serco as the FM provider. The new hospital, which has 860 in-patient and day spaces, is currently the largest NHS healthcare project in Scotland.

Solutions and Results

Linear Projects Ltd installed a total of 82 000 m^2 of Rockfon MediCare ceilings in all general use areas, wards, offices, and meeting rooms. In the corridors and circulation areas, MediCare Plus was used in a 2400 x 600 mm plank format. The en-suites, showers, and other wet areas, as well as the kitchen spaces, were equipped with standard tiles with a 24 mm Enhanced Corrosion Resistant (ECR) grid.

Installer Linear Projects Ltd
ProductsRockfon® MediCare® Standard, Rockfon® MediCare® Plus, Chicago Metallic™ T24 Click D2890 ECR Class D



Project Rigshospitalet in Copenhagen, Denmark

Our Product Recommendation

Rockfon Blanka® dB

Provides enhanced room-to-room sound insulation as well as the highest level of sound absorption (Class A) in areas where privacy, confidentiality, and speech clarity are important
This range of acoustic tiles has a high-performance membrane on the back, reducing the transmission of noise from room to room. The tiles vary in width to provide increasing levels of sound insulation and sound absorption, allowing adjustment for the need at hand.

KEY TAKEAWAYS

- Dual-layer stone wool tile with high-performance inner membrane
- Visible side: smooth, deep-matte, super white painted fleece
- Rear side: back fleece
- Durable painted edges
- Allows for vacuum and damp wiping

Project Østfold Plastikkirurgi in Moss, Norway
Product Rockfon® MediCare® Air

Other products to consider:

Rockfon® Soundstop™
This acoustic barrier is ideal for combination with our Rockfon Blanka dB range to reduce noise transfer in ceiling and floor plenums.

Rockfon® CleanSpace™ Pro
The product is versatile and durable. It can withstand numerous cleaning and disinfection methods, suitable for healthcare settings. In addition to its excellent acoustic properties, it's easy to cut and install.

Rockfon® Senses
This collection features fragrant natural ingredients and provides a contemporary biophilic experience for all five senses. By combining high-performing sound absorption with the soothing benefits of nature, Rockfon Senses helps reduce both unwanted noise and stress levels.

3 design tips for patient and examination rooms:

1. Use Class A acoustic ceiling and wall solutions to minimise noise reflecting off of hard surfaces.
2. Choose thick and dense sound-insulating materials to avoid sound transmission into an adjacent room.
3. Select design elements that stimulate comfort with the use of materials, textures, and colours.

Critical and Specialist Areas

Communication and speech intelligibility are critical

Make communication effective

It is crucial for individuals to be able to understand one another in critical and specialist areas, since their actions directly influence patient outcomes. To avoid reducing speech intelligibility, introducing acoustic solutions with best-in-class sound absorption helps bring calm to these stressful, busy, and loud environments of a hospital.

A healthy, clean environment for faster recovery

Building materials play an important role in keeping germs and infections from spreading. This is especially important in critical and specialist areas. In fact, 5 to 10% of all patients contract hospital-acquired infections; hence, regular cleaning and material hygiene are good methods of preventing such cases.

One study showed that communication interference due to noise is the leading cause of poor operation outcomes.

Source Katz, Jonathan D. 2014. "Noise in the Operating Room."

Project Päijät Häme Central Hospital in Lahti, Finland
Product Rockfon® CleanSpace™ Pure

CASE STUDY

Southmead Hospital
Bristol, England

Challenges

The Southmead Hospital in Bristol is one of the most environmentally friendly hospitals in England. The building meets strict environmental standards and has an appealing aesthetic. The designers sought to build a square-shaped ceiling. This necessitated a long-lasting ceiling able to reflect sunlight while consuming less light.

Solutions and Results

After exploring many options, Carillion, the contractor, decided that Rockfon MediCare ceiling tiles were the best option for their criteria. The acoustic tiles have a concealed edge and are very reflective, with up to 86% light reflection. They also comply with cleaning and hygiene standards preventing the spread of germs. Thanks to these features, the hospital earned an "Excellent" grade in BREEAM Certification.

Contractor Carillion
Product Rockfon® MediCare® Standard

Project Østfold Plastikkirurgi in Moss, Norway

Our Product Recommendation

Rockfon® MediCare® Air

Ideal for hospital ceilings where differential pressure is required
Rockfon MediCare Air has an airtight backing membrane and sealed edges. This meets the requirements for high-risk areas where differential air pressure is needed to prevent infections from spreading. These areas include operating rooms, recovery areas, intensive care, and others.

KEY TAKEAWAYS

- A1 fire resistance standard
- Clean Room Classification: ISO Class 3
- Visible side: micro-textured, white-painted, water-repellent fleece
- Rear side: airtight high-performance membrane
- Sealed edges

Project Warsaw Medical Care Centre "KOPERNIK", Poland

Rockfon® MediCare® Block

Ideal for use in high-risk, pressurised healthcare environments where high levels of cleanability are required

This acoustic ceiling doesn't contribute to the spread of bacteria as it has a Clean Room Classification ISO Class 2 and chemical resistance classification "Excellent". This makes the product suitable for emergency rooms, operating theatres, and treatment rooms.

KEY TAKEAWAYS

- Class A sound absorption
- Clean Room Classification: ISO Class 2
- Microbiological class M1
- Mineral wool tile encased within an air and watertight inert film

Project Warsaw Medical Care Centre "KOPERNIK", Poland

Our Product Recommendation

Rockfon® CleanSpace™ Block

A high-quality, acoustic ceiling tile that is designed for rooms and spaces with no tolerance for pollution or contamination
Rockfon CleanSpace is encased in a sealed film allowing enhanced durability, chemical resistance, and water repellence capabilities to meet rigorous cleaning needs.

KEY TAKEAWAYS

- Class A acoustic performance
- Allows for vacuum, damp cloth, low-pressure foam, and high-pressure cleaning
- Microbiological class M1
- Withstands disinfection methods such as hydrogen vapour peroxide, UVC, and Ozone
- Clean Room Classification: ISO Class 2

Project Royal Papworth Hospital in Cambridge, England

3 design tips for critical and specialist areas:

1. Use Class A acoustic ceiling and wall solutions to maintain speech clarity.
2. Use sound barriers, high-performance doors, and full-height walls to block noise from surrounding areas.
3. Use materials that can withstand the highest levels of cleaning requirements.

Project Medical School, University of Lincoln, England
Product Rockfon Eclipse®

Educational Spaces

The different environmental and design elements of a space can impact learning

Noise distracts from learning

The ability to communicate ideas, lessons, and presentations clearly is key in any educational setting, whether a lecture hall or a meeting room. But when sound turns into noise, the learning environment becomes difficult for both students and teachers. Noise also impairs memory retention, concentration, the ability to distinguish speech, and reading comprehension.

To ensure optimal knowledge absorption, it's important that the lecturer be heard loud and clear by all members of the audience, with as little background noise as possible.

A safe and hygienic learning environment

Germs thrive in places where people interact in close proximity. This means that poor hygiene not only leads to more hospital-acquired infections but also puts patients at risk. As such, it's important that medical training places emphasis on maintaining a hygienic environment. This will eventually result in improved patient safety throughout the healthcare sector.

3 design tips for educational spaces in healthcare settings:

1. Use Class A acoustic ceiling and wall solutions to improve speech clarity by reducing echoes.
2. Install sound barriers, such as floor screens or hanging dividers, to separate the areas for different studying activities.
3. Use furniture and design elements that meet the most rigorous hygiene codes and safety regulations and that are resistant to mould and bacteria.

> Only Rockfon managed to control sound and deliver the acoustics needed in different rooms.

Source Lee Dade, Building and Project Leader

Our Product Recommendation

Rockfon® MediCare® Plus

Provides outstanding performance and aesthetic appeal to meet the rigorous demands for hospital ceiling applications
Rockfon MediCare Plus is perfect for demanding healthcare applications that require cleaning with a damp cloth using standard detergents, specialised dry steam, and high-pressure cleaning. It is compliant with HTM 60 and has a Clean Room Classification of 3.

KEY TAKEAWAYS

- Class A sound absorption and highest fire safety (Class A1)
- Can be cleaned with diluted solutions of ammonia, chlorine, quaternary ammonium and hydrogen peroxide
- Does not contribute to the growth of MRSA
- Visible side: micro-textured, white-painted, water-repellent fleece
- Rear side: back fleece
- Sealed edges
- Full range of formats in concealed, semi-concealed, and visible grid options

Other products to consider:

Rockfon Blanka® Activity
Speech intelligibility is crucial where noise and activity levels are high. This acoustic tile has a thickness of 40 mm making it ideal for controlling the sound level at low frequencies.

Rockfon® Canva™
Create a secure environment and stimulate concentration by utilising Canva's modular form and detachable canvases to build sound barriers while complementing the fluidity of the space. They're a smart and simple method to make adaptable, feel-good places with wall panels, floor screens, and hanging dividers available in various styles.

Rockfon® Hub™
This product provides interior flexibility by creating zones where people can think, work, and talk. You can customise it with lighting and curtains or other accessories to match your design and add flow to open-plan areas. The Hub can be installed easily with plug-and-play kits and on-site support from Rockfon.

Project Morriston Hospital in Swansea, Wales
Product Rockfon® MediCare® Plus

Visit our website to download the brochure dedicated to educational settings:
rockfon.co.uk/sectors/education

This learning resource discusses how to build a learning centre where both students and teachers can perform effectively.

Project The Centre Communal d'Action Sociale, France
Product Rockfon Eclipse®

Canteen & Café

Great hygiene. Now that sounds good!

Unwind and unleash the burden of stress

The canteen (or cafeteria) should act as a sanctuary for people to enjoy their meals and the company of others. Having a range of accessible shared spaces makes collaboration smooth and pleasant for everyone, whether it's a brainstorming session, a team meeting, lunch, or simply somewhere to grab a quick coffee. Everyone should be comfortable speaking and listening so that they may actively participate in discussions.

Acoustics and hygiene exist in harmony

Hygiene is critical in not just the kitchen but also in social spaces – where the acoustics are equally important too.

Canteens and kitchens are full of hard, reflective surfaces, which are great for cleaning and disinfecting, but bad for room acoustics. The clatter of knives, forks, plates, and glasses hitting the table combined with conversations can cause noise levels to quickly escalate to an uncomfortable level.

> Healthcare workers need break areas that allow for completely private individual time as well as for opportunities to socialise with other staff.

Source Nejati et al. 2016. "Restorative Design Features for Hospital Staff Break Areas: A Multi-Method Study."

CASE STUDY

De Schuylenburgh
Silvolde, the Netherlands

Challenges

The atrium of the De Schuylenburgh nursing home is utilised for social events and casual downtime activities like coffee get-togethers. The management team was receiving frequent complaints about the noise level caused by the shape and volume of the atrium and the heavy use of hard, smooth materials.

Solutions and Results

Creating a comfortable, safe, and nurturing environment was a top priority. The finishing company Fleurbaaij Totaal Afbouw proposed the solution of using Rockfon Eclipse across the walls and significantly improved the acoustics of the room.

Installer Fleurbaaij Totaal Afbouw
Product Rockfon Eclipse®

Our Product Recommendation

Rockfon Color-all®

Improve the ambience of a stressful environment
Our coloured ceilings and wall solutions don't just reduce noise they also help create unique spaces. The range is available in 34 exclusive colours. This can help to inspire and enhance your interior design, giving you many possibilities to set the mood.

KEY TAKEAWAYS

- 34 subtle yet playful Colours of Wellbeing
- Available with exposed, semi-concealed, and concealed edges and a large variety of module sizes
- Available with matching grid (main runner, cross tees, perimeter wall angle trim) in an attractive matte finish

Product Rockfon Eclipse®

Other products to consider:

Rockfon Eclipse® Customised

It is the ideal solution for bringing a new aesthetic dimension to any space while improving acoustics. The sky is the limit, as this versatile range of stone wool islands can be customised in any shape and colour.

Rockfon Contour®

These frameless acoustic baffles are suitable for areas where architecture, skylights, or other design elements don't allow for a suspended ceiling. They are also ideal for spaces that require frequent and unhindered access to services.

Rockfon® CleanSpace™ Pure

A smooth, deep-matt, pure-white, and cleanable ceiling tile with good acoustic properties. The product is long-lasting and can withstand numerous cleaning and disinfection methods with ISO Class 3 certification. Rockfon CleanSpace Pure is suitable for use in food preparation areas and helps meet increasing hygiene standards.

3 design tips for canteens and cafés:

1. Use Class A acoustic ceiling solutions to minimise the noise that reflects from the ceiling.
2. Use Class A acoustic wall solutions to minimise the noise levels, allowing people to enjoy an audible conversation with one another.
3. Use acoustic solutions that are easy to clean and resistant to the growth of mould and bacteria. This helps reduce the risk of infection and allows rooms to adhere to the most rigorous hygiene codes.

Bathrooms & Locker Rooms

There's no need to choose between hygiene and acoustics

Raise the hygiene standards while keeping the noise down

Hard surfaces are good for cleaning and hygiene purposes, but not for noise. To help offset this challenge, it is important to look for acoustic solutions that will dampen sound reflection while being able to withstand humid environments.

Resist the humidity

Moisture often builds up in "wet" rooms, which can weaken the structure of certain ceiling panels causing them to lose shape and sag over time. It can also expose people to mould, mildew, or bacteria.

2 design tips for bathrooms and locker rooms:

1. Use Class A acoustic ceiling and wall solutions to minimise noise reflecting from hard surfaces.
2. Use sound-absorbing solutions that can withstand humid environments, which won't sag over time and do not contribute to mould and bacteria buildup.

Our Product Recommendation

Rockfon® CleanSpace™ Essential

A cost-friendly, aesthetic ceiling tile that is easily cleaned
CleanSpace Essential is a cost-friendly and long-lasting ceiling tile solution that is suitable for a variety of room types. Not only does this tile fulfil the highest demands in terms of cleanliness, but it also has enhanced acoustic properties, contributing to a healthy indoor environment.

KEY TAKEAWAYS

- Class A acoustic performance with A-edge in 20 mm thickness
- Easy to clean with a damp cloth or vacuum cleaner
- Clean Room Classification: ISO Class 4
- Provides no sustenance to microorganisms
- Up to 100% relative humidity with no visible deflection

Other products to consider:

Rockfon® Koral™
An attractive, white, micro-textured surface that has the highest sound absorption rating – this easy-to-clean acoustic ceiling solution is a practical and affordable choice.

Rockfon® System T24 A, E ECR™
This ceiling system is suitable for humid and harsh environments, where corrosion resistance, longevity, and safety are key factors. When paired with our acoustic ceiling tiles, this product creates a solid and durable solution that can withstand the test of time.

Product Overview

Performance	Rockfon Blanka®	Rockfon Blanka® Activity	Rockfon Blanka® dB 35	Rockfon Blanka® dB 41	Rockfon Blanka® dB 43	Rockfon Blanka® dB 46
Sound absorption	α_w: up to 1.00 (Class A)		α_w: 0.80 (Class B)	α_w: up to 0.90 (Class A)		
Direct sound insulation	-	-	R_w = 19 dB	R_w = 21 dB	R_w = 22 dB	R_w = 25 dB
Room to room sound insulation	-	-	$D_{n,f,w}$ = 35 dB. $D_{n,f,w}$ with Rockfon Acoustimass = 45* dB. $D_{n,f,w}$ with Rockfon Soundstop 21 dB = 44* dB. $D_{n,f,w}$ with Rockfon Soundstop 30 dB = 50* dB.	$D_{n,f,w}$ = 41 dB. $D_{n,f,w}$ with Rockfon Acoustimass = 52* dB. $D_{n,f,w}$ with Rockfon Soundstop 30 dB = 55* dB.	$D_{n,f,w}$ = 43 dB. $D_{n,f,w}$ with Rockfon Acoustimass = 54* dB. $D_{n,f,w}$ with Rockfon Soundstop 30 dB = 56* dB.	$D_{n,f,w}$ = 46 dB. $D_{n,f,w}$ with Rockfon Acoustimass = 55* dB. $D_{n,f,w}$ with Rockfon Soundstop 30 dB = 58* dB.
Surface durability	Enhanced durability and dirt resistance. Wet-scrub resistance: Class 5					
Impact resistance	Class 3A for Z and M edge	N/A	-	-	-	-
Light reflection	87% light reflection >99% light diffusion					
Cleaning	Vacuum, damp cloth					
Hygiene	Stone wool provides no sustenance to microorganisms					
Humidity and sag resistance	Up to 100% RH. No visible deflection in high humidity C/0N					
Reaction to fire	A1		A2-s1,d0			
Environment	All products are fully recyclable. The recycled content of Rockfon products is between 29% and 64% according to ISO 14021. Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).					
Clean room	-	-	-	-	-	-
Disinfection	N/A					
Air pressure	-	-	-	-	-	-
Thermal insulation	-	-	-	-	-	-

C - centre distance between baffle rows, H - suspension height: net distance between baffle and soffit.

** 2,6%, quaternary ammonium 0,25%, hydrogen peroxide 5%, Ethanol 70% and Isopropanol 70%*

*** 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*

	Rockfon® Canva™ Floor screen	Rockfon® Canva™ Hanging divider	Rockfon® Canva™ Wall panel	Rockfon® CleanSpace™ Block	Rockfon® CleanSpace™ Essential
	A_{eq} (m^2/item)		α_w: 0.95 (Class A)	α_w: 0.90 (Class A)	α_w: up to 1.00 (Class A)
	-	-	N/A	-	-
	-	-	N/A	-	-
	Detachable, washable, and replaceable canvas			Enhanced durability and water repellence The film contains DMAc (CAS 127-19-5) in a concentration ≥ 0.1% and < 1% by weight.	-
	-	-	Tested for impact resistance in accordance with EN 13964-Annex D and fulfills the Impact Resistance requirements for class 2A	-	-
	-	-	-	74% light reflection	85% light reflection
	Frame: Vacuum, damp cloth, and low-pressure foam cleaning. Canvas: Vacuum, damp cloth, and washing in normal machine wash cycle up to 70 degrees			Vacuum, damp cloth, low-pressure foam cleaning (twelve times a year), high-pressure cleaning (monthly and only applicable for A-edge installation) Chemical resistance: Tested according to ISO 2812-1 (“Determination of resistance to liquids - Part 1: Immersion in liquids other than water”) and classification in accordance with VDI 2083 Part 17. Results are classified as ‘Excellent’ with the following detergents and disinfectants (daily disinfection): - 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%)	Vacuum, damp cloth, steam cleaning (twice a year) Chemical resistance: Tested according to ISO 2812-3:2019 and classified in accordance with EN 12720. Rating on a scale from 1 to 5, where 5 is the best. We obtained 5 for the following detergents and disinfectants (quarterly disinfection): - Active chlorine 2,6% - Hydrogen peroxide 5% - Ethanol 70%
	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.***	Stone wool provides no sustenance to microorganisms
	Up to 100% RH. No visible deflection in high humidity C/0N				
	B-s1,d0 Based on EN 13501-1			B-s1,d0	A1
	All products are fully recyclable. The recycled content of Rockfon products is between 29% and 64% according to ISO 14021. Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).				
	-	-	N/A	ISO Class 2	ISO Class 4
	-	-	N/A	Resistant to using hydrogen peroxide vapour disinfection with impact on aeration time. Can withstand and will not be affected by UVC and Ozone disinfection.	-
	-	-	-	2023: Suitable in areas where differential pressure is required. When used in combination with: -HDC 2 for the 25 mm tile; or -HDC 7 for the 40 mm tile, the air leakage rate of less than 0.5m^3/h/ m^2/Pa under a pressure range of 5 to 40 Pa is achieved. The amount of hold down clips (HDC) depends on the tile dimensions and the room size/shape.	-
	-	-	-	-	-

Product Overview

Performance	Rockfon® CleanSpace™ Pro	Rockfon® CleanSpace™ Pure	Rockfon Color-all®	Rockfon Color-all® wall panel
Sound absorption	α_w: up to 1.00 (Class A)		α_w: up to 1.00 (Class A)	α_w: up to 0.95 (Class A)
Direct sound insulation	-	-	-	-
Room to room sound insulation	-	-	-	-
Surface durability	Enhanced durability and dirt resistance	Enhanced durability and dirt resistance. Wet-scrub resistance: Class 5	-	-
Impact resistance	-	-	-	-
Light reflection	85% light reflection	86% light reflection >99% light diffusion	Colour-dependent	
Cleaning	Vacuum, damp cloth, steam cleaning (twice a year), low pressure foam cleaning (twelve times a year), high pressure cleaning (monthly and only applicable for A-edge installation). Chemical resistance: Tested according to ISO 2812-3:2019 and classified in accordance with EN 12720. Rating on a scale from 1 to 5, where 5 is the best. We obtained 5 for the following detergents and disinfectants (monthly disinfection): - Active chlorine 2,6% - Quaternary ammonium 0,25% - Hydrogen peroxide 5% - Ethanol 70% - Isopropanol 70%	Vacuum, damp cloth, high pressure cleaning (monthly and only applicable for A-edge installation). Chemical resistance: Tested according to ISO 2812-3:2019 and classified in accordance with EN 12720. Rating on a scale from 1 to 5, where 5 is the best. We obtained 5 for the following detergents and disinfectants (weekly disinfection): - Active chlorine 2,6% - Quaternary ammonium 0,25% - Hydrogen peroxide 5% - Ethanol 70% - Isopropanol 70%	Vacuum	Vacuum
Hygiene	Microbiological class M1 fulfilling the requirements of Zone 4 (very high risk) defined by NF S 90-351:2013.***	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.***	Stone wool provides no sustenance to microorganisms	
Humidity and sag resistance	Up to 100% RH. No visible deflection in high humidity C/0N		-	Up to 100% RH
Reaction to fire	A1		A1 Rockfon Color-all Mercury & As edge: Class A2-s1,d0	A1 Rockfon Color-All Mercury: Class A2-s1,d0
Environment	All products are fully recyclable. The recycled content of Rockfon products is between 29% and 64% according to ISO 14021. Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).			
Clean room	ISO Class 4	ISO Class 3	-	-
Disinfection	Resistant to using hydrogen peroxide vapour disinfection with impact on aeration time	Resistant to using hydrogen peroxide vapour disinfection with impact on aeration time. Can withstand and will not be affected by UVC and Ozone disinfection.	-	-
Air pressure	-	-	-	-
Thermal insulation	-	-	40 mm: Thermal conductivity: λD = 37 mW/mK Thermal resistance: 40 mm: R = 1,05 m^2 K/W	-

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

*** 2,6%, quaternary ammonium 0,25%, hydrogen peroxide 5%, ethanol 70% and isopropanol 70%*

**** 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*

	Rockfon Contour®	Rockfon Eclipse®	Rockfon Eclipse® Colour	Rockfon Eclipse® Customised	Rockfon Eclipse® wall panel
	A_{eq} (m^2/item)				
	N/A				
	N/A		-	N/A	
	N/A	Enhanced durability and dirt resistance. Wet-scrub resistance: Class 5	-	N/A	Enhanced durability and dirt resistance. Wet-scrub resistance: Class 5
	N/A				
	79% light reflection	87% light reflection (rear side: 79%) >99% light diffusion	Colour-dependent		87% light reflection (rear side: 79%) >99% light diffusion
	Vacuum	Vacuum, damp cloth	Vacuum		Vacuum, damp cloth
	Stone wool provides no sustenance to microorganisms				
	Up to 100% RH. Not suitable for use in swimming pools or outdoors.	Up to 100% RH. No visible deflection in high humidity. Not suitable for use in swimming pools or outdoors.			Up to 90% RH. Not suitable for use in swimming pools or outdoors.
	A1	A1 Rockfon Eclipse Rectangle 2360: A2-s1,d0	A2-s1,d0		A1 Rockfon Eclipse Rectangle 2360: A2-s1,d0
	All products are fully recyclable. The recycled content of Rockfon products is between 29% and 64% according to ISO 14021. Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).				
	N/A				
	N/A				
	-	-	-	-	-
	-	-	-	-	-

Product Overview

Performance	Rockfon® Hub™	Rockfon® Koral™	Rockfon® Lamella™	Rockfon® MediCare® Air	Rockfon® MediCare® Block
Sound absorption	α_w: 0.95 (Class A)	α_w: up to 1.00 (Class A)	α_w: up to 0.90 (Class A) (Complete system tested)	α_w = up to 1.00 (Class A)	
Direct sound insulation	N/A			-	-
Room to room sound insulation	N/A		-	-	-
Surface durability	-	-	-	Enhanced durability and dirt resistance	
Impact resistance	N/A		-	-	-
Light reflection	N/A	86% light reflection	Colour-dependent	85% light reflection	74% light reflection
Cleaning	Vacuum	Vacuum, damp cloth	Vacuum	Vacuum, damp cloth, dry steam cleaning (twice a year). Chemical resistance: resistant to diluted solutions of ammonium, chlorine, quaternary ammonium, and hydrogen peroxide	Vacuum, damp cloth, dry steam cleaning (daily). Resistant to disinfection using hydrogen peroxide vapour with no impact on aeration time. Chemical resistance: Tested according to ISO 2812-1 ("Determination of resistance to liquids - Part 1: Immersion in liquids other than water") and classification in accordance with VDI 2083 Part 17. Results are classified as 'Excellent' with the following detergents and disinfectants (daily disinfection): - 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%)
Hygiene	Stone wool provides no sustenance to microorganisms			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. Tested with: - Methicillin Resistant Staphylococcus Aureus (MRSA) - Candida Albicans - Aspergillus Brasiliensis	Microbiological class M1 fulfilling the requirements of Zone 4 (very high risk) defined by NF S 90-351:2013. Tested with: - Methicillin Resistant Staphylococcus Aureus (MRSA) - Candida Albicans - Aspergillus Brasiliensis
Humidity and sag resistance	-	Up to 100% RH. No visible deflection in high humidity C/0N	-	Up to 100% RH. No visible deflection in high humidity C/0N	
Reaction to fire	A1 (tiles and grid components)	A1	C-s2,d0 (Complete system tested)		B-s1,d0
Environment	All products are fully recyclable. The recycled content of Rockfon products is between 29% and 64% according to ISO 14021. Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).				
Clean room	N/A	-	N/A	ISO Class 3	ISO Class 2
Disinfection		N/A	-	-	-
Air pressure	-	-	-	2023: Suitable in areas where differential pressure is required. When used in combination with closed neoprene foam tape and: -HDC 2 for the 25 mm tile; or -HDC 7 for the 40 mm tile, the air leakage rate of less than 0.5m³/h/ m²/Pa under a pressure range of 5 to 40 Pa is achieved. The amount of hold down clips (HDC) depends on the tile dimensions and the room size/shape.	
Thermal insulation	-	40 mm: Thermal conductivity: λD = 37 mW/mK	-	-	-

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

*** 2,6%, quaternary ammonium 0,25%, hydrogen peroxide 5%, Ethanol 70% and Isopropanol 70%*

**** 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

	Rockfon® MediCare® Plus	Rockfon® MediCare® Standard	Rockfon® Mono® Acoustic	Rockfon® Soundstop™	Rockfon® VertiQ® Wall panel
	α_w = up to 1.00 (Class A)	α_w = 0.95 (Class A)	α_w = up to 1.00 (Class A)	-	α_w: 1.00 (Class A)
	-	-	R_w = 22 dB	R_w = 21 dB R_w = 30 dB R_w = 33 dB	N/A
	-	-	-	-	-
	Enhanced durability and dirt resistance	N/A	-	-	-
	-	-	-	-	Tested for impact resistance in accordance with DIN 18032 part 3
	85% light reflection	86% light reflection	87% light reflection (Elegant Render) >99% light diffusion (Elegant Render)	-	White (72%) Lightgrey (61%) Grey (33%) Black (5%)
	Vacuum, damp cloth, dry steam cleaning (twice a year). Chemical resistance: resistant to diluted solutions of ammonia, chlorine, quaternary ammonium and hydrogen peroxide	Vacuum, damp cloth	Vacuum	N/A	Vacuum
	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. Tested with: - Methicillin Resistant Staphylococcus Aureus (MRSA) - Candida Albicans - Aspergillus Brasiliensis		Stone wool provides no sustenance to microorganisms		
	Up to 100% RH. No visible deflection in high humidity C/0N	Up to 100% RH. No visible deflection in high humidity 15 mm: C/0N	Up to 100% RH. No visible deflection in high humidity. Can be used in swimming pools provided it is not exposed to condensation, splashing water, or water droplets. The suspension system components must be corrosion resistant and the plenum well ventilated.	Up to 100% RH	-
	-	A1	A2-s1,d0	C-s1,d0 and/or A1 depending on local assortment	A2-s1,d0 (EN 13501-1)
	All products are fully recyclable. The recycled content of Rockfon products is between 29% and 64% according to ISO 14021. Rockfon acoustic solutions are Cradle to Cradle Certified® Silver and Bronze (depending on product type).				
	ISO Class 3	ISO Class 5	-	-	-
	-	-	-	-	N/A
	-	-	-	-	-
	-	-	-	-	-

We're your partner towards sustainable development

Sustainability sits at the heart of our research and development. It's why we use natural stone and constantly work towards a lower carbon footprint in our manufacturing. While we are not in every country with our Rockcycle solution yet, we're expanding our recycling service across Europe and Asia.

Many property developers have started to choose building materials that can contribute to sustainable construction. Building certifications like LEED, BREEAM, DGNB, or WELL are growing in popularity, and our products can help you earn points in these schemes.

Do you know that stone wool can be recycled repeatedly without any degradation in quality?

Rockfon can both recycle our own old stone wool ceiling tiles and offcuts from installation, plus upcycle wet felted mineral fibre ceiling tiles from other manufacturers. We help make a meaningful contribution to a greener planet.

Visit our website for more information about our takeback scheme.

Rockfon sees sustainability as an imperative, driving us to reimagine acoustic solutions and their place in modern interiors.

Christian Klinge, Innovation Director at Rockfon

Project Odense University Hospital, Denmark
Products Rockfon Blanka®, Rockfon® Tropic™

Be part of making the world sound better to everyone

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

We're the zzz in restful hospitals
Every day, we're inspired to create innovative 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 7 manufacturing facilities worldwide, and we're on hand to help you find the right acoustic solutions for your next hospital project.

Project Finstadtunet Nursing Home in Ski, Norway
Product Rockfon® Tropic™

Project Terveystalo Private Healthcare Services in Helsinki, Finland
Product Rockfon Blanka®

We're your partner towards sustainable development

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 building sustainable healthcare facilities.

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 free learning resources on: ***www.rockfon.co.uk***

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.

ROCKWOOL Limited T/A Rockfon
14th Floor, Chiswick Tower
389 Chiswick High Road
London W4 4AL

020 8222 7457
www.rockfon.co.uk
info@rockfon.com

Sounds Beautiful