



Rock-solid sustainability

activeceilings®

ROCKWOOL
Rockfon®
ACTIVATE YOUR CEILING

Making a constructive contribution



Building a sustainable future requires a balanced approach to the environment, the wellbeing of people and economic prosperity. Without all three, sustainability will remain an illusion rather than a rock-solid reality.

Regional sourcing

Rockwool has **26 factories** worldwide. Most of them are located close to extraction sites and customers, reducing the production of greenhouse gases caused by transportation.

A little goes a long way

1 cubic metre of stone corresponds to **2,200 square metres** of 15 mm ceiling tiles, which is enough ceiling to cover eight tennis courts.

Infinite generosity

Every year the earth produces **38,000 times** more rock than Rockfon and Rockwool use.



Clear commitment

For many years, Rockfon and Rockwool have been taking steps to reduce their impact on the environment. This commitment is guided by deep-rooted values, and progress is published regularly in an environmental report that is available for download from www.rockfon.co.uk

A heritage of leadership

Rockfon is the leading supplier of stone wool acoustic solutions and is a subsidiary of Rockwool International – the world's largest producer of stone wool, with over 70 years of experience.

A solid source of renewable materials

Diabase rock is the primary raw material used to make Rockfon and Rockwool stone wool products. Every year, volcanic activity and plate tectonics create extremely large reserves of this rock, which makes it a renewable resource.

Reducing impact on the planet

Rockfon's/Rockwool's manufacturing processes are constantly monitored and improved in important areas such as increasing energy efficiency, limiting water consumption, diversion from landfill and up-cycling of industrial waste.

Water for life

Water is a scarce resource in many parts of the world, so it is important to use as little as possible. For example, many factories collect and use rain water in order to limit the usage of potable water. Rockwool and Rockfon have improved water efficiency by 10% from 2005 to 2009.

Cleaning up waste

Diabase rock and recycled materials are melted at temperatures above 1500°C to make stone wool. At this heat level, organic waste is burned cleanly to produce energy, reducing factory consumption of fossil fuels.

The value of recycling

Rockwool and Rockfon factories receive **500,000 tonnes** of waste materials from other industries annually – six times more waste than they send to landfill.

High marks

In 2011, the globally recognised Carbon Disclosure Project rewarded Rockwool a disclosure rating of **86 points**. This places the Rockwool Group high in the Carbon Disclosure ratings.



Avoiding landfill

Today, 95% of Rockwool and Rockfon production waste is either recycled internally or sold to other industries as a raw material for use in their manufacturing processes. To further reduce waste, Rockwool invested over € 30 million in recycling plants in 2009 and 2010.

Recycled and recyclable

Rockfon stone wool products contain up to 84% recycled and renewable content, and can be fully recycled at any Rockwool recycling plant at the end of their life cycle.

Reducing carbon emissions

According to an externally verified assessment, the total portfolio of Rockwool products (including Rockfon products) sold in 2009 saved 4 billion tonnes of CO₂ – equivalent to the CO₂ emissions of India, Russia and Germany combined.

Strict environmental management

All factories where Rockfon products are manufactured operate in accordance with Rockwool's stringent environmental management systems that require continuous improvement and implementation of minimum standards for processes. In addition, Rockfon products supplied in the UK are manufactured at ISO 14001 certified factories.

Energetically saving energy

The Rockwool Group is continuously improving the energy efficiency of its factories. For instance, five old production lines have been replaced with four highly efficient upgrades, saving € 3.4 million annually in energy costs. These measures also reduce CO₂ emissions.

Improving people's lives

Not only do Rockfon's acoustic solutions play an important role in creating healthy environments for people to learn, work and heal in, Rockfon is also committed to the health and safety of employees, suppliers and installers.

A significant difference

By installing a Rockfon ceiling in a 120 m² office you can reduce the noise level by 6 dB which corresponds to **eliminating 75%** of the original **noise** in the room.

Less noise on the agenda

In open plan offices, **60% of employees** say that noise is the single most disturbing factor.

Julian Treasure, Sound Business, 2007

Feel-good sound

Rockfon acoustic ceiling solutions contribute positively to indoor environment, thus contributing to the wellbeing and health of a building's occupants.

Keeping a secret

In workspaces like hospitals, offices and hotels, personal privacy and the ability to have confidential conversations is critical. In addition to providing products with high levels of acoustic comfort through sound absorption, Rockfon has developed specific solutions that also provide excellent sound insulation.

Advanced fire safety

Fireproof stone wool is the basis of all Rockfon ceiling products, most of which are rated A1, the highest safety classification. In the event of a fire, they do not burn, melt or create significant smoke. This gives occupants more time to leave the building, increases overall fire safety and limits building damage.

Let the sunshine in

Poor lighting can result in eye strain and fatigue, while natural and artificial light have a proven positive impact on a person's mood, efficiency and stress level. High light reflection helps make effective use of available light. Rockfon unobtrusive matte white ceilings are highly reflective (85-87%) and provide a uniform spread of light.

Documented safe

All Rockfon products are classified as E1 products which guarantee they are below any legal requirement for Formaldehyde emission in the EU. Rockfon products meet and exceed relevant legal requirements for indoor air quality and health, as shown by the independent certifications attributed to Rockfon tiles. Taken together, these certificates demonstrate compliance with the main requirements for volatile organic compounds (VOC), formaldehyde, ammonia, carcinogens, particles, odour, biosolubility and fibres.



Building durable prosperity

Every building is different in terms of design and purpose. Rockfon solutions enable specifiers to realise their vision with a ceiling that boosts the productivity of occupants, delivers cost-effectiveness to the building owner, and contributes to the welfare of communities.

Making a difference locally

Rockfon is a co-financing partner of a long-term carbon-offsetting scheme in a family-run ceramics factory in Brazil. The project aims to **reduce deforestation** and **improve air quality** for local communities and reduce CO₂ emissions (www.eco-act.com). At a local level, Rockfon Benelux is supporting SOS Children's Villages (centre for healthy schools).

Good acoustics = better productivity

70% of people say that their **productivity would be higher** if their environment was less noisy.

Source : Danish National Research Centre for the Working Environment: Noise from human activity.

Change indoor environment for the better

Indoor environment quality can create health problems. Rockfon ceilings can significantly contribute to enhancing the acoustic comfort and productivity of the occupants.

Built to last

It is important to use materials that can withstand the wear and tear of daily use and periodic reconfiguration. Rockfon tiles come with a 15-year guarantee and provide excellent resistance to handling and humidity. They stay flat, do not sag in humid conditions and don't need to acclimatise on site before installation, making them highly cost-effective over time.



Profiting people

The Rockwool Foundation is the leading shareholder in Rockwool International. Established in 1981, it supports scientific, humanitarian, artistic and social activities, and contributes to improving environmental conditions and development in society: www.rockwoolfonden.dk

Greater energy efficiency

Rockfon has a high thermal insulation value and can contribute to the reduction of energy consumption in certain applications. The high light reflection performance of Rockfon surfaces also helps save energy on electrical lighting. Solutions such as acoustic islands, baffles and wall absorbers contribute to the energy efficiency of thermal mass and thermo-active building systems, as they allow the free movement of air in the room while at the same time providing acoustic comfort.

Long-term thinking

Because organisations change, indoor spaces need to be highly reconfigurable. Rockfon ceilings are very flexible and versatile. They are designed to save time, effort and reduce waste during installation and maintenance. They also allow for easy access to concealed service installations. All of which helps make spaces more modular.

Certified buildings

With the growing awareness of the importance of acoustic wellbeing in buildings, the contribution of acoustic ceilings to sustainable buildings continues to increase.

Building certifications

Whether you are looking to create a more sustainable building or even gain certification through **BREEAM, HQE, DGNB, LEED** or another programme, Rockfon products can help you achieve your goals.

It is no longer enough for buildings to be simply "green". What is required is a holistic sustainable approach, securing the environment, the health of the users and the investments.

With a relatively low mass, Rockfon products have a very low environmental impact when compared to the whole building. Furthermore, Rockfon delivers highly flexible and durable acoustic solutions that can increase user productivity and wellbeing, thereby contributing actively to the overall sustainability of any building.

Sustainable product improvements

By eliminating the use of aluminium foils on some Rockfon ceiling tiles, over 100 tonnes of CO₂ were saved in just one year.

Sustainable buildings in Europe

Certified sustainable building space in Europe is expected to quadruple to 687 million m² by 2016.



Certificate No. ENP 423,
22-Nov-2010

BRE (UK)

Rockfon recently underwent the stringent, independent BRE Life Cycle Assessment. The findings showed that the Rockfon Pacific A24 600 x 600 x 12mm ceiling system has the lowest Ecopoint score ever to date.

FDES (France)

In France, about 90% of Rockfon products are covered by the French EPD Fiches de Déclaration Environnementale et Sanitaire, also known as FDES.

Product certifications

In order to prove the environmental profile of Rockfon products, a number of environmental product declarations (EPD) have been undertaken.

Together with other certificates and tests proving our unrivalled acoustic performance, low emissions and fire safety, EPDs are just a small part of Rockfon's documented contribution to the sustainability of any building environment.

Up-cycling returns

Rockfon's recycling is up-cycling. In traditional recycling, products made from recycled materials can be of lesser quality than products made from new materials. Rockfon processes waste products into new fibres having exactly the same qualities as those made from new or virgin materials.

Relieving landfill sites

To reduce the burden on landfill sites and minimise the depletion of natural resources, contractors are increasingly returning Rockfon ceiling tile off-cuts and ceiling tiles reclaimed from site waste, refurbishment or demolition work for recycling.

Up-cycling for two major London hospitals

As part of the massive redevelopment project of Barts and The Royal London hospitals (over 100,000 m² of ceilings), Rockfon recycled all of the off-cuts and up-cycled them at the local Rockwool factory.

Collect and up-cycle

The up-cycling of Rockfon products can take place in any Rockwool factory with a briquet plant. This process occurs as close as possible to the point of collection, minimising the need for unnecessary transport and CO₂ emissions.

Rockwool return programmes are available in many countries, including Denmark, France, Germany, the Netherlands and the UK. Contact Rockfon for more information about how to return waste in your area.

Find out more about
Rockfon and sustainability
on **www.rockfon.co.uk**

ACTIVATE YOUR CEILING

Rockfon® develops intelligent ceiling and wall solutions which actively address a number of important issues in modern buildings and renovation projects.

Rockfon products are known for their design, aesthetics and ease of installation, coupled with the key performance features of superior fire resistance and acoustics.

This ensures that our acoustic solutions are among the highest performing, most cost effective and time efficient in today's interiors market.

This comprehensive portfolio from Rockfon enables our customers to actively add value to the construction process, by ultimately creating superior interior environments.

That is why we say "ACTIVATE YOUR CEILING".

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