

Rockfon® LEED Solutions Guide

Helping Create Sustainable Buildings and Pursuing LEED v4, v4.1 Certification



Project - Grundfos
Brookshire, Texas, USA
LEED Platinum Certification



LEED® v4 & v4.1 HIGHLIGHTS

Materials and Resources (MR)

- Construction & Demolition Waste Management Planning ✓
- Interiors Life Cycle Impact Reduction – Designed for Flexibility ✓
- Building Product Disclosure and Optimization – Environmental Product Declarations ✓
- Building Product Disclosure and Optimization – Sourcing of Raw Materials ✓
- Building Product Disclosure and Optimization – Material Ingredients ✓
- Construction and Demolition Waste Management ✓

Indoor Environmental Quality (EQ)

- Low-Emitting Materials ✓
- Interior Lighting ✓
- Acoustic Performance ✓

Rockfon, part of ROCKWOOL Group, is a world leader in the manufacturing of stone wool ceiling solutions. Our product portfolio is well placed to tackle many of today's biggest sustainability and development challenges, and we offer carefully designed, innovative, sustainable solutions for your comfort, safety and for the benefit of the environment.

Our Products

Rockfon provides a comprehensive range of ceiling products that help create sustainable buildings. From stone wool ceiling panels to our metal ceiling solutions, we are confident we can help you bring your vision to life.

Rock: A Natural Resource

Rockfon acoustic ceiling panels are made from stone wool – consisting of a blend of naturally occurring, volcanic basalt rock and waste materials from other industries. Basalt rock is a plentiful, natural resource in itself, and when transformed into stone wool ceiling tiles has many properties including high acoustic absorption, a resistance to moisture, contains no organic matter for mold or mildew to grow, and is naturally fire resistant.

Creating Sustainable Buildings

The LEED v4 and v4.1 Green Building Rating System includes revised performance criteria for certifying the design and construction of commercial, institutional and residential buildings. LEED works for all buildings anywhere, regardless of where they are in their life cycle. The LEED process is designed to inspire innovative solutions that support healthy, highly efficient and cost-efficient green buildings during the design, construction, operation and maintenance of these high-performance structures.

Rockfon acoustic ceilings help deliver sustainable buildings and we are pursuing LEED v4 and v4.1 points for building interiors.

*Project – Kaiser Permanente Mission Bay
San Francisco, CA, USA
LEED Gold Certification*



*Project - Grundfos
Brookshire, Texas, USA
LEED Platinum Certification*

Materials & Resources

Construction & Demolition Waste Management and Waste Management Planning

Rockfon and ROCKWOOL Group are dedicated to reducing construction waste sent to landfills.

Planning your ceiling installation can reduce the installation waste. Average waste generation with 5% installation waste: 0.02 – 0.13 lbs./sq. ft.

Rockfon grid and metal ceiling waste can be recycled in existing recycling schemes.

Interiors Life Cycle Impact Reduction – Designed for Flexibility

Rockfon is a natural fit with increased building flexibility and ease of adaptive use over the life of the structure.

Whether you wish to move your partition walls or install extra cables above the suspended ceiling, we can deliver flexible and demountable solutions that fit your need for adaptable environments.

Building Product Disclosure and Optimization – Environmental Product Declarations

Rockfon can provide you with third-party, UL-certified, product-specific, cradle-to-gate Environmental Product Declarations (EPDs) according to ISO 14025 and ISO 14044 for our stone wool products as well as industry-standard EPDs for our metal products.

Building Product Disclosure and Optimization – Sourcing of Raw Materials

Rockfon stone wool panels contain up to 53% recycled content by weight. This recycled content is pre-consumer as it comes from the rapidly renewable basalt rock.

Our grid and specialty metal systems contain both pre-consumer and post-consumer recycled content. The total recycled content of our metal ceiling systems is as follows: Steel - 30%, Aluminum - 78%.

Building Product Disclosure and Optimization – Material Ingredients

Rockfon has worked to collect compositional chemistry information from our supply chain partners to develop material ingredient reports through Toxnot, and we are pleased to provide material ingredient transparency reports for our products.

Rockfon offers products with Health Product Declarations (HPDs). An HPD is a reporting format that assists manufacturers in transparently disclosing the compositional chemistry of a product in a standard format. All chemicals undergo a hazard screening and the results are reported on the HPD. All of Rockfon's HPDs are pre-checked for compliance with LEED v4 and 4.1 and as such, contribute to relevant credits.

We've screened all of our compositional chemistry to at least the 1000ppm level on our HPDs and 100ppm on our Declare Labels and continue to provide this type of analysis.

38,000x

Naturally abundant basalt rock self-replenishes at a rate 38,000 times faster than depletion



Indoor Environmental Quality (EQ)

Acoustic Performance

Rockfon's acoustic stone wool, metal ceiling and wall solutions can provide a high level of noise absorption to help comply with the minimum acoustic performance prerequisite in schools and to earn up to two credits for enhanced acoustics performance in the new construction of healthcare, hospitality, education and other types of facilities.

Metal systems are perforated in patterns and sizes so noise passes through and gets absorbed by an Acoutex backer. Our stone wool ceiling tiles and panels have Noise Reduction Coefficients (NRC) from 0.60 to over 1.05, meeting HVAC background noise requirements for reducing mechanical noise and reverberation inside spaces. Rockfon's plenum barrier, when combined with acoustic ceilings, helps meet the sound transmission requirements.

Low-Emitting Materials

Supporting your indoor air quality management plans, and the newest building codes and regulations, our low-emitting products support a healthy and efficient indoor environment. Our stone wool products are naturally resistant to mold and mildew and can withstand up to 100% relative-humidity without warping or sagging.

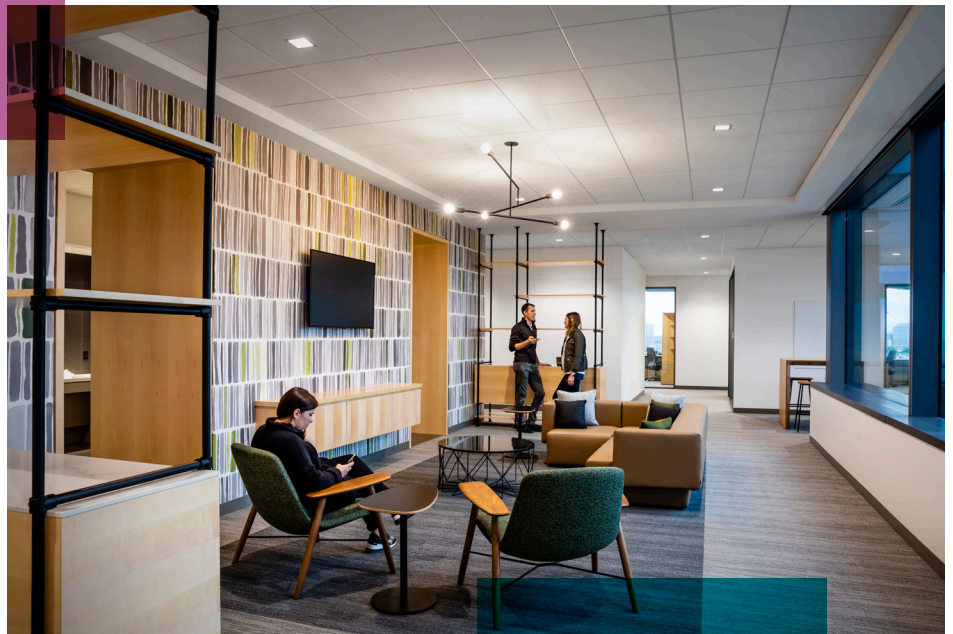
Our core portfolio of stone wool ceiling tiles and panels has received UL GREENGUARD Gold certification for low emissions in both classroom and office environments, and our metal ceilings have no reportable VOC emissions.

Interior Lighting

Most Rockfon stone wool ceiling tiles provide a light reflectance rating of 83 or higher. By choosing ceilings with the right light reflectance, Rockfon promotes occupants' productivity, comfort and well-being.



Project – Pioneer Natural Resources Headquarters
Irving, Texas, USA
LEED Gold Certification



Rockfon Products for LEED v4 & v4.1

Rockfon® Products

		Materials & Resources (MR)							Indoor Environmental Quality (EQ)						
		Construction & Demolition Waste Management and Planning (Material Recycling)	Building Product Disclosure and Optimization – Environmental Product Declarations	Building Product Disclosure and Optimization – Sourcing of Raw Materials (Self-Declared CSR Report)	Building Product Disclosure and Optimization – Sourcing of Raw Materials (Recycled Content**)	Building Product Disclosure and Optimization – Material Ingredients		Interior Life Cycle Impact Reduction – Designed for Flexibility (Healthcare)	Low-Emitting Materials	Interior Lighting (Light Reflectance)	Acoustic Performance (NRC)	UL Greenguard Gold			
						HPD	Declare Label								
Tile Products: Low-Emitting, UL GREENGUARD Gold Certified		Stone Wool Tiles & Panels													
		Rockfon® Pacific™	–	✓	✓	49%	–	–	✓	✓	0.85	0.60	✓		
		Rockfon Artic®	–	✓	✓	49%	✓	✓	✓	✓	0.85	0.75	✓		
		Rockfon Tropic®	–	✓	✓	46%	✓	✓	✓	✓	0.86	0.85	✓		
		Rockfon® Koral™	–	✓	✓	44%	✓	–	✓	✓	0.86	0.85	✓		
		Rockfon Sonar®	–	✓	✓	41%	✓(3PV)	–	✓	✓	0.85	0.95	✓		
		Rockfon Sonar® Activity	–	✓	✓	41%	–	–	✓	✓	0.85	0.90	✓		
		Rockfon Alaska®	–	✓	✓	50%	✓(3PV)	✓	✓	✓	0.86	0.90	✓		
		Rockfon® Color-all™	–	✓	✓	41%	–	–	✓	✓	Color Dependant	0.85	✓		
		Rockfon® Cinema Black™	–	✓	✓	52%	–	–	✓	✓	0.04	0.85	✓		
		Rockfon® Hygienic Plus™	–	✓	✓	44%	✓	✓	✓	✓	0.83	0.90	✓		
		Rockfon® Medical™ Standard	–	✓	✓	44%	✓	–	✓	✓	0.86	0.90	✓		
		Rockfon® Medical™ Plus	–	✓	✓	44%	✓	✓	✓	✓	0.83	0.90	✓		
		Rockfon® Medical™ Air	–	✓	✓	45%	✓	✓	✓	✓	0.83	0.85	✓		
		Rockfon® Education Standard	–	✓	✓	50%	✓	✓	✓	✓	0.84	0.70	✓		
		Rockfon® Education Plus	–	✓	✓	49%	✓	✓	✓	✓	0.82	0.80	✓		
		Rockfon® Education Premium	–	✓	✓	50%	✓	✓	✓	✓	0.84	0.90	✓		
		Rockfon® Impact™	–	✓	✓	41%	–	–	✓	✓	0.86	0.85	✓		
		Rockfon® Industrial™ Opal	–	✓	✓	53%	–	–	✓	✓	0.64	1.05	✓		
		Rockfon® Industrial™ Black	–	✓	✓	53%	–	–	✓	✓	0.04	1.05	✓		
Rockfon® Facett™	–	✓	✓	52%	–	–	✓	✓	0.68	1.00	✓				
Rockfon® Plenum Barrier Board	–	–	✓	40%	–	–	✓	✓	–	–	–				
Metal products: No-Emitting Materials, Manufacturer-tested		Standard Systems													
							Type	PreC	PostC	Total					
		Chicago Metallic® 15/16" Exposed	✓	✓	✓	30%	Steel	12%	18%	30%	✓	✓*	–	–	–
		Chicago Metallic® 9/16" Tempra™ Exposed	✓	✓	✓	30%	Steel	12%	18%	30%	✓	✓*	–	–	–
		Chicago Metallic® 9/16" Ultraline™ Exposed	✓	✓	✓	30%	Steel	12%	18%	30%	✓	✓*	–	–	–
Chicago Metallic® 9/16" Integrity™ Exposed	✓	✓	✓	30%	Steel	12%	18%	30%	✓	✓*	–	–	–		

* Manufacturers declared low-emitting materials.

** Recycled content values for our stone wool tiles and panels are based on 2022 production averages of a standard 2' X 2' tile, and based on their primary production location. Recycled content values for grid and metal ceilings are based on figures from leading steel and aluminum trade associations, and materials supplier information.

Rockfon Products for LEED v4 & v4.1

Rockfon® Products

		Materials & Resources (MR)							Indoor Environmental Quality (EQ)				
		Construction & Demolition Waste Management and Planning (Material Recycling)	Building Product Disclosure and Optimization – Environmental Product Declarations	Building Product Disclosure and Optimization – Sourcing of Raw Materials (Self-Declared CSR Report)	Building Product Disclosure and Optimization – Sourcing of Raw Materials (Recycled Content**)				Interior Life Cycle Impact Reduction – Designed for Flexibility (Healthcare)	Low-Emitting Materials	Interior Lighting (Light Reflectance)	Acoustic Performance (NRC)	Non or Low-Emitting
					Type	PreC	PostC	Total					
Metal products: No-Emitting Materials, Manufacturer-tested	Drywall Systems												
	Chicago Metallic® Flat Drywall	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–
	Chicago Metallic® Radius Drywall	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–
	Chicago Metallic® Spanfast® Drywall	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–
	Special Applications												
	Chicago Metallic® Aluminum Cap Exposed 260	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–
	Chicago Metallic® All Aluminum Exposed 830	✓	✓	✓	Aluminum	28%	50%	78%	✓	✓*	–	–	–
Chicago Metallic® Barriergrid® Standard/Premium Exposed	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–	
Chicago Metallic® G90 Exterior Exposed	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–	
Acoustic Metal Ceiling Systems	Perimeter Trim												
	Rockfon® Infinity™ Perimeter Trim	✓	✓	✓	Extruded Aluminum	65%	10%	75%	✓	✓*	–	–	–
	Linear Metal Panels												
	Rockfon® Planar® Linear Ceilings	✓	✓	✓	Aluminum	28%	50%	78%	✓	✓*	–	up to 0.90***	–
	Metal Panels and Planks												
	Rockfon® Planostile™ Metal Ceiling Panel	✓	✓	✓	Aluminum	28%	50%	78%	✓	✓*	–	up to 0.90***	–
	Rockfon® Spanair® Metal Panel	✓	✓	✓	Aluminum	28%	50%	78%	✓	✓*	–	up to 0.90***	–
	Rockfon® Traditions™	✓	✓	✓	Steel	Contact Rockfon for further details			✓	✓*	–	–	–
	Curved Metal Panels												
	Rockfon® Curvgrid™ Curved Ceiling System Panels	✓	✓	✓	Aluminum	28%	50%	78%	✓	✓*	–	up to 0.90***	–
	Metal Baffles												
	Rockfon® Intaline™ Metal Baffle	✓	✓	✓	Aluminum	28%	50%	78%	✓	✓*	–	–	–
	Open Plenum Systems												
	Rockfon® Beamgrid® Open Plenum Ceiling System	✓	✓	✓	Aluminum	Contact Rockfon for further details			✓	✓*	–	–	–
	Rockfon® Cubegrid® Open Plenum 15/16" Ceiling System	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–
Rockfon® Graphgrid® Open Plenum Wire Panel	✓	✓	✓	Steel Wire	Contact Rockfon for further details			✓	✓*	–	–	–	
Rockfon® Magna T-cell™ Open Plenum Ceiling System	✓	✓	✓	Steel	12%	18%	30%	✓	✓*	–	–	–	
Rockfon® Metalscapes® Wire Mesh Panels	✓	✓	✓	carbon Steel/ Stainless Steel	Contact Rockfon for further details			✓	✓*	–	–	–	

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*** NRC values are dependent on perforation patterns, plenum depth and acoustical backer options.

Rockfon North American Production Facilities

Chicago, Illinois

Centrally located to best serve your project needs from coast to coast, our North American headquarters is based in Chicago. Drawing from more than 50 years of success in Europe, we have operated in North America since 2013. Chicago Metallic® suspension systems, acquired in 2013, have been produced in the U.S. for decades. Currently, we manufacture our specialty metal ceiling panels and Chicago Metallic suspension systems in Chicago.

Marshall County, Mississippi

In 2017, our first North American acoustic ceiling manufacturing facility opened in Marshall County, Mississippi; approximately 30 miles south of Memphis, Tennessee. Now in full production, our local team manufactures Rockfon acoustic stone wool ceiling products to our precise, high-quality specifications and standards. A comprehensive inventory program maintained in our strategically located U.S. warehouses offers enhanced service levels to our customers.

Advancing Our Decarbonization Commitment

Our factory in Mississippi converted to natural gas, which is expected to reduce CO₂ emissions by approximately 30 percent.

[ROCKWOOL Group Corporate Sustainability Report](#)



For information on how Rockfon products support sustainable design strategies, or for assistance with your calculations, contact one of our Technical Specialists at techservices@rockfon.com, call **1-800-323-7164** or visit rockfon.com.



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