



EN15804 Core EPD		All rights re	eserved.			11-30-2016 rsion 1.0. This version replaces earlier versions
Company	ROCKFON/ROCKWOOL Ir Hovedgaden 501 DK-2640 Hedehusene tel. +45 56 21 22 www.rockfon.com	nternational A/S				
For	Average ceiling t	ile in the den	sity range	67-149 kg/m	<sup>3</sup> with the r	results representing a
	17 mm thick and	1.9 kg/m <sup>2</sup> pr	oduct			
	ROCKFON® Ekla™ dB 35, F ROCKFON® Fibral™, ROCK Krios™ dB 35, ROCKFON® ROCKFON® MediCare™ RC ROCKFON® Pagos™, ROC Royal™, ROCKFON® Sams ROCKFON® VertiQ™ A and E edges only: ROCKF ROCKFON® Hygienic™, RO Impact of speciality foils/facir	e density range (67-1 <sup>-</sup> ON® Baffles, ROCK OCKFON® Ekla™ F FON® Industrial <sup>™</sup> , F Industrial <sup>™</sup> , ROCKFON® Me KFON® Pallas <sup>™</sup> , RO on <sup>™</sup> , ROCKFON® So <sup>-</sup> <sup>™</sup> , ROCKFON® So <sup>-</sup> <sup>™</sup> , ROCKFON® So <sup>-</sup> <sup>™</sup> , ROCKFON® MediCare <sup>™</sup> gs not included. Susp	49 kg/m3) are: FON Blanka® dl lelief, ROCKFON OCKFON® Kora J Lilia™, ROCKF diCare™ Standal CKFON® Paral™ cholar™, ROCKF ON Color-all®, F <sup>d</sup> Plus, ROCKFC pension grid is no	3 35, ROCKFON® Bo. ® Ekla™ TH 40, ROC I™, ROCKFON® Krio DN® Lithos™, ROCK d, ROCKFON® Mono <sup>4</sup> , ROCKFON® Polar/4 ON® Sofit™, ROCKF OCKFON® Ekla™, R N® Royal Hygiene™, t included.	KFON® Ekla™ TI <sup>™</sup> (15 mm), ROC FON® LOGIC™, f M Acoustic, ROC Crystal™, ROCKF ON® Sonar™ dB DCKFON® Hydro ROCKFON® Trop	CKFON® Krios™ Bas, ROCKFON® ROCKFON® MediCare™ Air, KFON® Opal™, ROCKFON Pacific®, 'ON® Rockshed™, ROCKFON® 35, ROCKFON® Tropic™ dB 35, clean™, ROCKFON® Hygenic™ Plus,
Standard	Self-declated EPD based o	n the EN15804	Туре:	Cradle-to-Gate		
Issue date	30-11-2016					
Valid until	29-11-2021					
	Data on this certificate has an independent third par	•	d by The Righ	t Environment and	verified agains	t the EN15804 EPD standard by
Declared unit	1 square meter acoustic pa	nels with a service	life of 50 years			
Description	Thickness	Weight		α <sub>w</sub>	Dnfw	Rw
	17 mm	1.9 kg	(	).5-1.0	35	19-22
Remarks	<b>Dnfw only representative for d</b> EPDs of construction products					

## Demonstration of verification

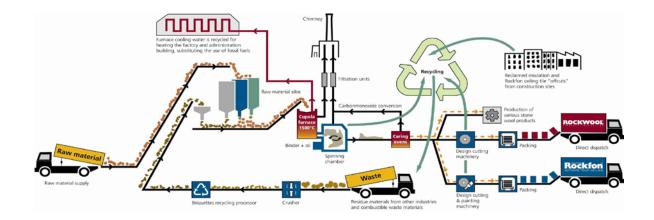
EN15804 serves as core PCR Third party verification of the declaration, according to ISO 14025 o Internal x External
Third party verifier
IVAM Uva B.V.
As a general rule, a comparison or evaluation of EPD data is only possible when all of the data records to be compared have been drawn up in accordance with EN 15804 and the building context and/or product-specific performance features are taken into consideration.



Product	
Product description	ROCKFON acoustic panels are intended for indoor use. The panels consist of a fire safe mineral wool core with a colored or painted facing. With no or little organic material, ROCKFON panels will stay flat in humid conditions and are naturally resistant towards microorganisms.
Product specification	ROCKFON acoustic panels are intended for indoor use. The panels consist of a fire safe mineral wool core with a colored or painted facing. With no or little organic material, ROCKFON panels will stay flat in humid conditions and are naturally resistant towards microorganisms.
Technnical data	Product range: 67-149 kg/m3 (112 kg/m3 for the declared unit). Tile sizes range from 300 mm wide to 2400 mm long (1 m2 for the declared unit) Weight: 1.5 - 9.4 kg/m2 (1.9 kg/m2 for the declared unit). Please see manufactures literature for more information.
Market	Global. The declared values represent an average product for the declared range. A direct extrapolation of the EPD results by using the thickness and density of the mineral core is not possible because it does not reflect the variations in the facing and coatings. These variations do not scale to mass or density. The variation of the EPD results due to product variations for the declared range is greater than +/- 10%. Therefore, if scaling is performed by the ROCKFON customer according to the specifically purchased thickness and weight according to the declared unit (17 mm and 1.9 kg/m2), the results can be considered a best guess. If you are a ROCKFON customer and require product specific results please contact your local ROCKFON resource.

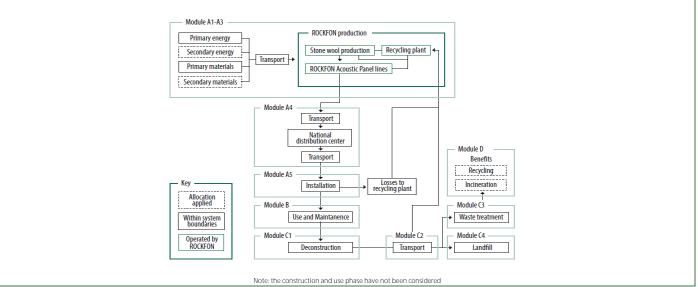
Materials	Amount
Resin bonded stone wool core	73-97%
Facings	1-15%
Water based paints	0-16%
Glue	0,01%

Declaration of material content			
Safety data sheet	In compliance with European chemicals regulation (REACH), ROCKFON acoustic ceiling solutions are defined as articles why a Safety Data Sheet is not required. The mineral wool core consists of fibres spun from melted minerals based on vulcanoic mass, such as diabase or basalt, from recycled mineral wool and other secondary mineral resources. ROCKWOOL mineral wool is safe to use and carries the EUCEB label. For more information please contact your local ROCKFON resource.		
Substances considered under European Chemicals Regulation REACH	The product contains no substances as listed in Annex XIV and Annex XVII of REACH regulation No 1907/2006 or the Norwegian priority list (A20).		





The process tree for mineral wool (material and energy inputs smaller than 1% excluded from flow chart)



Environmental Parameter		Product stage	Delivery	Installation	Use and maintenance		Enc	l-of-life		Module D
Global warming potential, GWP	kg CO2	4,36E+00	ND	ND	ND	ND	ND	ND	ND	ND
Depletion potential of the stratospheric ozone layer, ODP	kg CFK-11	5,06E-07	ND	ND	ND	ND	ND	ND	ND	ND
Acidification potential of land and water resources, AP	kg SO2	3,26E-02	ND	ND	ND	ND	ND	ND	ND	ND
Eutrophication potential, EP	kg PO43-	4,02E-03	ND	ND	ND	ND	ND	ND	ND	ND
Formation potential of tropospheric ozone photochemical oxidants, POCP	kg ethyl	4,82E-03	ND	ND	ND	ND	ND	ND	ND	ND
Depletion of abiotic resources, elements	kg Sb	7,98E-06	ND	ND	ND	ND	ND	ND	ND	ND
Depletion of abiotic resources, fossil fuels	MJ	8,09E+01	ND	ND	ND	ND	ND	ND	ND	ND
Resource input (use of)										
Renewable primary energy, excluding renewable resources used as raw materials	MJ, ncv	6,22E+00	ND	ND	ND	ND	ND	ND	ND	ND
Renewable primary energy resources used as raw materials	MJ, ncv	3,74E+00	ND	ND	ND	ND	ND	ND	ND	ND
Total renewable primary resources	MJ, ncv	9,96E+00	ND	ND	ND	ND	ND	ND	ND	ND
Non renewable primary energy, excluding resources used as materials	MJ, ncv	8,68E+01	ND	ND	ND	ND	ND	ND	ND	ND
Non renewable primary energy used as raw materials	MJ, ncv	4,45E+00	ND	ND	ND	ND	ND	ND	ND	ND
Total non renewable primary energy resources	MJ, ncv	9,13E+01	ND	ND	ND	ND	ND	ND	ND	ND
Secondary material	kg	8,54E-01	ND	ND	ND	ND	ND	ND	ND	ND
Renewable secondary fuels	MJ	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND
Non renewable secondary fuels	MJ	2,68E-03	ND	ND	ND	ND	ND	ND	ND	ND
Input of fresh water	m3	3,06E-01	ND	ND	ND	ND	ND	ND	ND	ND
Waste categories (disposed)										
Hazardous waste disposed	kg	3,93E+00	ND	ND	ND	ND	ND	ND	ND	ND
Non hazardous waste disposed	kg	4,12E+00	ND	ND	ND	ND	ND	ND	ND	ND
Radioactive waste disposed	kg	1,66E-01	ND	ND	ND	ND	ND	ND	ND	ND
Further output material flows										
Components for reuse	kg	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND
Materials for recycling	kg	1,44E-02	ND	ND	ND	ND	ND	ND	ND	ND
Materials for energy recovery	kg	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND
Exported electric energy	MJ	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND
Exported thermal energy	MJ	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND



Indoor air	
Considerations	There are no indoor air health quality related concerns for the use of the declared construction products.

ncv net calorific value

ND Not Declared

NR Not relevant

Additional environmental information not verified as part of the EPD				
Recycled content (preconsumer)	Recycled content of the stone wool core is 44%. Calculated according to ISO 14021. All recycled content calculated as post-industrial waste (Pre-consumer)			
End-of-life	Extended Producer Responsibility Programs are operated locally by the ROCKWOOL factory or ROCKFON customer service in Denmark, Germany, France, the Netherlands and the UK. ROCKFON products can be recycled at any ROCKWOOL recycling facility.			
Corporate Social Reporting	The ROCKWOOL group report on Corporate Social Responsibility is available www.rockwool.com			
Environmental management Systems	All factories manufacturing ROCKFON panels are covered by a formalised environmental management system (EMS). The EMS in the factories located in Poland and Netherlands are certified under ISO 14001.			

Product Health				
Emissions	ROCKFON acoustic ceiling tiles are certified low emission by one or more of the following schemes: Blauer Engel, M1, the Danish Indoor Climate label or the Singapore Green Building Council product certification scheme.			
Mineral wool fibre	ROCKWOOL/ROCKFON Stone Wool fibres are certified to be in compliance with bio-solubility requirements in EU Directive 97/69/EC (Note Q) and excempt from carcinogenic classification according to the European Union regulations on classification, labelling and packaging of substances and mixtures (EC No 1272/2008 and No 790/2009). Coarse fibres can cause itching on skin or foreign body effect in the upper respiratory system (mucous membranes) and eyes. Physical effects will generally abate in short time after end of exposure and no chemical effects ensue. It s recommended to follow work practices as printed on ROCKFON packaging			

Normative references			
EN ISO	354	2003	Acoustics - Measurement of sound absorption in a reverberation room
EN ISO	10140	2010	Acoustics - Laboratory measurement of sound insulation of building elements
EN ISO	11654	97/13	Acoustics - Sound absorbers for use in buildings - Rating of sound absorption
EN	13964	2004	Suspended ceilings. Requirements and test methods

Core EPD and ECO-Link calculation module compiled and designed by



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