

COMPANY INFORMATION



ROCKFON
ROCKWOOL AS
Hovedgaden 501
DK-2640 Hedehusene
Denmark

FOR

Krios, A-edge T24, 544001700

MRPI code

11.1.00003.004

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END OF VALIDITY

March 14, 2018

FUNCTIONAL UNIT

1m² Krios ceiling tiles with a 50 year service life applied in the Benelux

PART OF THE FUNCTIONAL UNIT

Krios, A-edge T24, 544001700



PRODUCT DESCRIPTION

Material composition (>1%wt).		
Mineral wool	74-94%	
Glass fibre backing	1-14%	
Coating	1-4%	

ENVIRONMENTAL PROFILE

Impact category	Unit (equivalents)	Product stage A1, A2, A3	Transportation A4	Construction A5	use, maintenance B1 = B7	End-of-life C1	End-of-life C2, C3, C4, D
Abiotic depletion, non fuel	kg Sb	2.5E-06	1.3E-08	1.5E-07	0.0E+00	0.0E+00	8.9E-08
Abiotic depletion, fuel	kg Sb	1.9E-02	7.7E-04	1.2E-03	0.0E+00	0.0E+00	2.3E-04
Global warming	kg CO ₂	4.7E+00	1.2E-01	2.9E-01	0.0E+00	0.0E+00	3.1E-02
Ozone layer depletion	kg CFK-11	1.4E-07	1.8E-08	9.8E-09	0.0E+00	0.0E+00	5.1E-09
Photochemical oxidation creation	kg ethyl	8.0E-04	5.7E-05	5.1E-05	0.0E+00	0.0E+00	2.3E-05
Acidification	kg SO ₂	1.0E-02	6.9E-04	6.7E-04	0.0E+00	0.0E+00	1.7E-04
Eutrophication	kg PO ₄ ³⁻	1.8E-03	1.6E-04	1.2E-04	0.0E+00	0.0E+00	3.8E-05
Human toxicity	kg 1,4 DB	6.3E-01	2.1E-02	3.9E-02	0.0E+00	0.0E+00	8.9E-03
Ecotoxicity, fresh water	kg 1,4 DB	1.6E-02	1.2E-03	1.0E-03	0.0E+00	0.0E+00	3.9E-04
Ecotoxicity, marine water (MAETP)	kg 1,4 DB	1.1E+02	6.0E+00	6.9E+00	0.0E+00	0.0E+00	1.6E+00
Ecotoxicity, terrestrial	kg 1.4 DB	4.1E-03	1.0E-04	2.5E-04	0.0E+00	0.0E+00	6.9E-05

ENVIRONMENTAL RATINGS

Impact category	Unit (equivalents)	Product stage A1, A2, A3	Transportation A4	Construction A5	use, maintenance B1 – B7	End-of-life C1	End-of-life C2, C3, C4, D
Energy, total	MJ	4.2E+01	1.7E+00	2.6E+00	0.0E+00	0.0E+00	5.1E-01
Energy, renewable primary	MJ	6.7E+00	4.2E-03	4.0E-01	0.0E+00	0.0E+00	6.4E-03
Energy, non-renewable primary	MJ	3.5E+01	1.7E+00	2.2E+00	0.0E+00	0.0E+00	5.0E-01
Waste, hazardous	kg	3.9E+00	1.3E-02	2.3E-01	0.0E+00	0.0E+00	1.2E-02
Waste, non-hazardous	kg	1.9E-01	8.5E-04	1.1E-02	0.0E+00	0.0E+00	3.3E-01
Use of net fresh water	m3	5.9E+00	2.3E-02	3.5E-01	0.0E+00	0.0E+00	3.7E-02

ENVIRONMENTAL PROFILE AND RATINGS

Representative

ROCKFON products supplied in the Benelux

REMARKS

Building assessment tools can model replacement intervals as necessary. The results from this LCA can be scaled accordingly.

INCLUDED LIFE CYCLE PHASES

All

EXCLUDED LIFE CYCLE PHASES

The grid that is necessary for the installation and the cleaning agents, water and equipment for cleaning are not included.



QUALITATIVE INFORMATION

ROCKFON is a subsidiary of ROCKWOOL International, the world's largest producer of stone wool products. ROCKFON acoustic ceiling tiles are manufactured at ROCKWOOL factories in France, Poland, Russia and The Netherlands for distribution through sales companies all over the world.

The ROCKFON stone wool core is produced by means of patented technology where volcanic stone and recycling materials are melted and spun into wool. The wool is then shaped and cut acoustic tiles of varied thickness and density. Finally, finishing treatments are applied that result in an elegant, durable and attractive surface.

Most ROCKFON ceiling tiles are awarded A1 classification for reaction to fire, meaning they are non-combustible and do not create smoke or burning droplets during a fire. This resistance can slow a fire's progress, providing precious time for evacuation and rescue while helping minimise structural damage.

ROCKFON ceiling tiles withstand 100% relative humidity (RH), over long periods of time, and remain dimensionally stable. ROCKFON products provide no nutrients to micro-organisms



OTHER INFORMATION

All ROCKFON ceiling tiles can be recycled at the ROCKWOOL recycling facility in Roermond. For more information go to our homepage on www.rockfon.nl

ACCOUNTABILITY

The data on this MRPI[®]-certificate are based on the guidelines from the SBK protocol of November 2011 and the MRPI[®]-review protocol for the NEN8006:2004, version 2.0.



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