CEN EPD prE	EN15804:2010 data Rockwoo	Preliminary version. All rights reserve	ed. January 18, 2017
Company	Rockwool BV Postbus 1160 6040 KD Roermond tel. ++1 (0) 475 35 35 35 fax. ++1 (0) 475 35 34 84	BRANDVEILIGE	VOOL ISOLATIE
For	Others ROCKWOOL 133		
Standard	Verified CEN EPD based on the prEN158	304:2010	Type: Cradle-to-Gate with Options
Issue date	18. januar 2017		
Valid untill	17. januar 2022		
	Data on this certificate have been generative verified by an independent third party	ted by SGS INTRON B.V. based on the NEN8006:200	04 and the MRPI®-verification protocol 2010 and has been
Product unit	1 m2 Others		
Description	Weight Weight	Facing	
	25 mm 0.925 kg/m2	not relevant	
	Parameter		
Representative for	Rockwool products produced in the Bene	lux	
Remarks	EPDs of construction products may not be	e comparable if they do not comply with the prEN1580	4:2010 standard

Demonstation of verification

CEN standard prEN15	5804 serves as core PCR
Third party verification of the de	eclaration, according to ISO 14025
Internal	🗵 External
Third pa	arty verifier
	IVAM B.V.

Declaration of material content

Reference title	All information related to the content and safety of our products can be obtained by contacting our technical support.
Safety data sheet	Mineral wool fibres are spun from melted minerals based on vulcanoic mass, such as diabase or basalt, from recycled mineral wool and other secondary mineral resources. Depending on the actual product the fibres are kept separate or connected by use of a resin. Rockwool minderal wool does not contain substances of very high concern that are listed by the European Chemicals Agency. Rockwool minderal wool is safe to use and carries the EUCEB label. If more information is required, please contact Rockwool.
Substances considered under REACH (Registation, Evaluation and Authorisation of Chemicals	All information related to the content and safety of our products can be obtained by contacting our technical support. Rockwool stone wool does not contain substances of very high concern.

System boundaries and flow diagram

The process tree for mineral wool (material and energy inputs smaller than 1% excluded from flow chart) Note: the construction and use phase have not been considered

Primary energy	Secondary	Resources	By-products
Cokes	energy	Basalt	Slags



Environmental impacts		Product stage	Construction	Construction	Use and	End-of-life	End-of-life	Module D
	Unit	A1 A2 A2	A 4	<u>^ </u>		<u>C1</u>	<u> </u>	
Environmental profile	Offic	A1, A2, A3	A4	A5	B1 – B1	CI	62, 63, 64	D
Global warming potential, GWP	kg CO2	8.28E-01	5.04E-02	n.a.	n.a.	n.a.	1.75E-02	n/a
Depletion potential of the stratospheric ozone layer, ODP	kg CFK-11	3.48E-08	7.41E-09	n.a.	n.a.	n.a.	2.91E-09	n/a
Acidification potential of land and water resources, AP	kg SO2	4.55E-03	2.73E-04	n.a.	n.a.	n.a.	9.54E-05	n/a
Eutrophication potential, EP	kg PO43-	7.11E-04	6.16E-05	n.a.	n.a.	n.a.	2.08E-05	n/a
Formation potential of tropospheric ozone photochemical oxidants, POCP	kg ethyl	2.06E-04	6.60E-06	n.a.	n.a.	n.a.	2.90E-06	n/a
Depletion of abiotic resources, elements	kg Sb	4.05E-07	2.75E-09	n.a.	n.a.	n.a.	4.99E-08	n/a
Depletion of abiotic resources, fossil fuels	MJ	1.17E+01	6.62E-01	n.a.	n.a.	n.a.	2.69E-01	n/a
Resource input								
Use of renewable energy primary energy, excluding renewable primary resources used as raw materials	MJ, net calorific value	1.35E+00	1.70E-03	n.a.	n.a.	n.a.	3.70E-03	n/a
Use of renewable primary energy resources used as raw materials	MJ, net calorific value	4.92E-05	7.71E-07	n.a.	n.a.	n.a.	8.25E-07	n/a
Total use of renewable primary resources	MJ, net calorific value	1.35E+00	1.70E-03	n.a.	n.a.	n.a.	3.70E-03	n/a
Use of non renewable primary energy, excluding non renewable primary energy resources used as materials	MJ, net calorific value	1.20E+01	6.71E-01	n.a.	n.a.	n.a.	2.86E-01	n/a
Use of non renewable primary energy used as raw materials	MJ, net calorific value	0.00E+00	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Total use of non renewable primary energy resources	MJ, net calorific value	1.20E+01	6.71E-01	n.a.	n.a.	n.a.	2.86E-01	n/a
Use of secondary material	kg	5.20E-01	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Input of fresh water*	m3	1.26E-03	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Waste categories								
Hazardous waste disposed	kg	2.84E-02	2.48E-04	n.a.	n.a.	n.a.	1.15E-03	n/a
Non hazardous waste disposed	kg	6.30E-01	5.24E-03	n.a.	n.a.	n.a.	1.02E-01	n/a
Radioactive waste disposed	kg	0.00E+00	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Further output material flows		0.005.00	0.005.00					1
Materials for recycling	кg ka	0.00E+00 6.89E-02	0.00E+00 0.00E+00	n.a. n a	n.a. n a	n.a. n a	0.00E+00 8.33E-01	n/a n/a
Materials for energy recovery	kg	6.46E-04	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a
Exported energy	kg	0.00E+00	0.00E+00	n.a.	n.a.	n.a.	0.00E+00	n/a

*Only water use at the Rockwool facilities is presented here.

Transport

Parameter	
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Fuel type consumption of vehicle or vehicle type used for transport e.g. long l/km distance truck, boat etc.	1 liter of diesel per 3 km; over 150 km, truck
Capcity utilisation (including empty %	diesel consumption is for average loads, 30% returns empty, 70% is utilized for other loads/products
Bulk density kg/m3	Volume based, average of 105 m3 per truck
(factor = 1 or < 1 or > 1 for compressed)	some products are compressed, this has been neglected, therefor a factor of 1 has been applied for all products

End of life

Processes		
collected separately	kg	9.00E+02
collected with mixed construction waste	kg	1.00E+02
for re-use	kg	0.00E+00
for recycling	kg	9.00E+02
for energy recovery	kg	0.00E+00
product of material for final deposition	kg	0.00E+00

Indoor air

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