

# Environmental product declaration



## ROCKWOOL®

### Stone Wool Thermal Insulation for buildings

EPD according to EN 15804 and ISO 14025 and 3rd party verified  
ROCKWOOL Group EPD rules and LCA model

**Manufacturer:**

ROCKWOOL Malaysia Sdn Bhd and  
ROCKWOOL (Thailand) Ltd.

**Owner of the declaration:**

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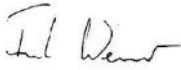
Valid until February 2027

**Life Cycle Assessment study:**

This environmental product declaration is based on a  
Life Cycle Assessment (LCA) background study according to  
EN15804:2012+A1:2013 carried out by:

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**Verification:**

CEN standard EN 15804 serves as the core PCR	
Independent verification of the "Rules for LCAs / EPDs for ROCKWOOL products" and the underlying LCA model described in the rules, in accordance with ISO 14025: 2010, EN 15804: 2012+A1:2013, with prEN 16783 serving as the PCR:	Independent verification of the calculation and this declaration, in accordance with EN ISO 14025:2010:
External	Internal
Third-party verifier: Dr. Frank Werner  13 November 2018	Remark: this EPD is issued by ROCKWOOL International and has been internally reviewed by senior experts. The externally reviewed rules and model have been applied.

Environmental Product Declarations (EPDs) may not be comparable if they do not comply with the EN15804:2012+A1:2013 Clause 5.3

# Scaling factors for other products



Material	Scale factor	Material	Scale factor	Material	Scale factor
Conrock L10 <sup>1</sup>	3.1	ProRox BL960-SA <sup>2</sup>	3.0	RoofRock <sup>1</sup>	2.7
Conrock L12 <sup>1</sup>	3.8	ProRox SL540-SA <sup>2</sup>	4.3	Safe 'n' Silent Pro330 <sup>1</sup>	1.0
Conrock L15 <sup>1</sup>	5.2	ProRox SL560	4.8	Safe 'n' Silent Pro331 <sup>1</sup>	1.3
Conrock S10 <sup>1</sup>	3.3	ProRox SL580	4.2	Safe 'n' Silent Pro350 <sup>1</sup>	1.5
Conrock S12.5 <sup>1</sup>	4.2	ProRox SL920-SA <sup>2</sup>	1.1	Safe 'n' Silent Pro370 <sup>1</sup>	2.0
Conrock S15 <sup>1</sup>	5.3	ProRox SL930-SA <sup>2</sup>	1.7	Safe 'n' Silent Pro380 <sup>1</sup>	2.4
Cool 'n' Comfort RL920	1.1	ProRox SL950-SA <sup>2</sup>	2.2	Thermalrock B100 <sup>1</sup>	2.5
Cool 'n' Comfort RL930	1.3	ProRox SL960-SA <sup>2</sup>	2.6	Thermalrock B100 <sup>1</sup>	2.5
Cool 'n' Comfort RL940	1.5	ProRox SL970-SA <sup>2</sup>	3.6	Thermalrock B40 <sup>1</sup>	1.1
Cool 'n' Comfort RL950	2.0	ProRox SL978-SA <sup>2</sup>	3.1	Thermalrock B50 <sup>1</sup>	1.3
Cool 'n' Comfort RL960	2.5	ProRox SL980	4.1	Thermalrock B60 <sup>1</sup>	1.5
Cool 'n' Comfort SL920	1.1	ProRox WM950-SA <sup>2</sup>	2.2	Thermalrock B80 <sup>1</sup>	1.9
Cool 'n' Comfort SL930	1.3	ProRox WM960-SA <sup>2</sup>	2.6	Thermalrock S100 <sup>1</sup>	2.4
Cool 'n' Comfort SL940	1.5	ProRox WM970-SA <sup>2</sup>	4.9	Thermalrock S120 <sup>1</sup>	3.0
Cool 'n' Comfort SL950	2.0	Rock Air RL	0.8	Thermalrock S140 <sup>1</sup>	3.5
Cool 'n' Comfort SL960	2.5	Rock Air SL	0.8	Thermalrock S40 <sup>1</sup>	1.1
Curtainrock One <sup>1</sup>	1.8	Rockrock 30	3.0	Thermalrock S50 <sup>1</sup>	1.3
Curtainrock 80 Plus <sup>1</sup>	2.6	Rocksafe <sup>1</sup>	1.5	Thermalrock S60 <sup>1</sup>	1.5
Curtainrock 80 Pro <sup>1</sup>	2.6	Rocksafe Pro <sup>1</sup>	2.0	Thermalrock S80 <sup>1</sup>	2.0
Hardrock 60 <sup>1</sup>	3.8				
Hardrock 80 <sup>1</sup>	4.7				
SAFE <sup>1</sup>	2.0				
Conlit <sup>1</sup>	4.5				
ProRox BL938-SA <sup>2</sup>	1.7				
ProRox BL940-SA <sup>2</sup>	1.7				
ProRox BL950-SA <sup>2</sup>	2.2				
ProRox BL958-SA <sup>2</sup>	2.3				

<sup>1</sup> For all general building insulation products the mean temperature of thermal conductivity measurement in 20°C as per ASTM C518.

# Scaling factors for other products



## Scaling factors for pipe sections

The scaling factors correspond to a length of 1m for the pipe sections. The factors are according to:

- the density of the three different ProRox products,
- the 8 external diameters of the to be insulated pipe
- and the 11 thicknesses of the ProRox insulation pipes.

The input data is according to the technical information that you find in the ProRox process manual. The scaling factors range from 0.5 for ProRox PS960-SA with a thickness of 30 mm to insulate a pipe with a 33 mm external diameter, to 20.4 for ProRox PS970-SA with a thickness of 130 mm to insulate a pipe with a 323.9 mm external diameter.

mm; Nominal diameter Ø DN; NPS (inch)	Thickness of the insulation pipe in mm											Thickness of the insulation pipe in mm										
	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130
	ProRox PS 960 SA ( $\rho = 120$ ) scaling factors											ProRox PS 970-SA ( $\rho = 150$ ) scaling factors										
33; 25; 1	0.5	0.8	1.2	1.6	2.1							0.6	0.9	1.3	1.8	2.3						
60.3; 50; 2	0.8	1.2	1.6	2.1	2.6	3.2						0.9	1.3	1.8	2.3	2.9	3.6					
88.9; 80; 3	1.0	1.5	2.0	2.6	3.2	3.9	4.6					1.2	1.7	2.2	2.9	3.6	4.4	5.2				
114.3; 100; 4	1.2	1.8	2.4	3.0	3.7	4.5	5.3	6.2				1.4	2.0	2.7	3.4	4.2	5.0	5.9	6.9			
168.3; 150; 6	1.7	2.4	3.2	4.0	4.8	5.7	6.7	7.7	8.8			1.9	2.7	3.5	4.4	5.4	6.4	7.5	8.7	9.9		
219.1; 200; 8	2.2	3.0	3.9	4.8	5.8	6.9	8.0	9.2	10.4	11.7		2.4	3.4	4.3	5.4	6.5	7.7	9.0	10.3	11.7	13.2	
273; 250; 10	2.6	3.6	4.7	5.8	6.9	8.2	9.4	10.8	12.2	13.6	15.1	2.9	4.0	5.2	6.5	7.8	9.1	10.6	12.1	13.6	15.2	16.9
323.9; 300; 12	3.1	4.2	5.4	6.6	8.0	9.3	10.8	12.2	13.8	15.4	17.0	3.4	4.7	6.0	7.4	8.9	10.4	12.0	13.7	15.4	17.2	19.1