

## Appendix to Certificate of Approval

Appendix Number: ENP427h

Issue: 4

### Rockpanel

Konstruktieweg 2

6045 JD

Roermond

The Netherlands

### Characterised and normalised data for:

#### External Wall Construction: Rainscreen cladding on steel frame with metal stud infill (ex wall type 7.1c)

Rockpanel Durable Protect Plus and timber battens, structural steel frame, breather membrane, insulation, cement-bonded particle board, light steel frame, plasterboard on battens, paint  
1 m<sup>2</sup> over 60-year study period

#### Quality of data for profiled material

Start date	01/01/2017
End Date	31/12/2017
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	18/02/2021
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All building types
Source of data	Company records
Geography	NL

(Data for other constituent materials are available from BRE Global)

#### BRE Ecopoints score: 0.519 Ecopoints

This certificate appendix is maintained and held in force through annual review and verification.

Signed for BRE Global Ltd.

Laura Critien

Certification Schemes Manager

23 December 2021

Date of Issue

31 December 2023

Expiry Date



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Rockpanel Durable Protect Plus and timber battens, structural steel frame, breather membrane, insulation, cement-bonded particle board, light steel frame, plasterboard on battens, paint  
**1 m<sup>2</sup> over 60-year study period**

### Characterised Data

Issue	Value	Unit
Climate Change	111	kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.759	m <sup>3</sup>
Mineral Resource Extraction	0.088	tonnes
Stratospheric Ozone Depletion	0.0000691	kg CFC11 eq.
Human Toxicity	43.5	kg 1,4-DB eq.
Ecotoxicity to Freshwater	5.01	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000115	m <sup>3</sup> high level waste
Ecotoxicity to Land	0.182	kg 1,4-DB eq.
Waste Disposal	65.3	kg
Fossil Fuel Depletion	1400	MJ
Eutrophication	0.062	kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.101	kg ethene eq.
Acidification	0.741	kg SO <sub>2</sub> eq.

### Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00903	12300 kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.00201	378 m <sup>3</sup>
Mineral Resource Extraction	0.0036	24.4 tonnes
Stratospheric Ozone Depletion	0.000318	0.217 kg CFC11 eq.
Human Toxicity	0.0022	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0038	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00487	2.37 x 10 <sup>-5</sup> m <sup>3</sup> high level waste
Ecotoxicity to Land	0.00148	123 kg 1,4-DB eq.
Waste Disposal	0.0174	3750 kg
Fossil Fuel Depletion	0.00515	273 GJ
Eutrophication	0.00191	32.5 kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.00468	21.5 kg ethene eq.
Acidification	0.0104	71.2 kg SO <sub>2</sub> eq.

**BRE Ecopoints score: 0.519 Ecopoints**

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