

Appendix to Certificate of Verification

Appendix Number: ENP427g Issue: 2

ROCKPANEL Group
 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 and timber battens, structural steel frame, breather membrane, insulation, cement-bonded particle board, light steel frame, plasterboard on battens, paint



Quality of data for profiled material

| | |
|----------------------|---|
| Start date | 1/1/2013 |
| End Date | 12/31/2013 |
| Representativeness | 1 site representing 100% production |
| LCA Methodology | BRE Environmental Profiles Methodology 2008 |
| Allocation | 100% to product |
| Date of data entry | 9/23/2015 |
| Boundary | Cradle to Grave over 60-year study period |
| Applicable buildings | All building types |
| Source of data | Company records |
| Geography | The Netherlands |

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

BRE Ecopoints score: 0.498 Ecopoints

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



Signed for BRE Global Ltd.

Laura Critien
 Certification Scheme Manager

19 April 2016
 Date of Issue

18 April 2019
 Expiry Date



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Characterised Data

| Issue | Value | Unit |
|-------------------------------|-------------|---------------------------------|
| Climate Change | 103 | kg CO ₂ eq (100 yr.) |
| Water Extraction | 0.676 | m ³ |
| Mineral Resource Extraction | 0.0871 | tonnes |
| Stratospheric Ozone Depletion | 0.0000663 | kg CFC11 eq. |
| Human Toxicity | 41 | kg 1,4-DB eq. |
| Ecotoxicity to Freshwater | 4.86 | kg 1,4-DB eq. |
| Nuclear Waste (higher level) | 0.000000112 | m ³ high level waste |
| Ecotoxicity to Land | 0.178 | kg 1,4-DB eq.. |
| Waste Disposal | 65.5 | kg |
| Fossil Fuel Depletion | 1330 | MJ |
| Eutrophication | 0.0584 | kg PO ₄ eq. |
| Photochemical Ozone Creation | 0.0976 | kg ethene eq. |
| Acidification | 0.702 | kg SO ₂ eq. |

Normalised data

| Issue | Value | Western European Citizen's Annual Impacts |
|-------------------------------|----------|---|
| Climate Change | 0.00838 | 12300 kg CO ₂ eq (100 yr.) |
| Water Extraction | 0.00179 | 378 m ³ |
| Mineral Resource Extraction | 0.00357 | 24.4 tonnes |
| Stratospheric Ozone Depletion | 0.000305 | 0.217 kg CFC11 eq. |
| Human Toxicity | 0.00208 | 19700 kg 1,4-DB eq. |
| Ecotoxicity to Freshwater | 0.00369 | 1320 kg 1,4-DB eq. |
| Nuclear Waste (higher level) | 0.00473 | 2.37 x 10 ⁻⁵ m ³ high level waste |
| Ecotoxicity to Land | 0.00145 | 123 kg 1,4-DB eq.. |
| Waste Disposal | 0.0175 | 3750 kg |
| Fossil Fuel Depletion | 0.00488 | 273 GJ |
| Eutrophication | 0.0018 | 32.5 kg PO ₄ eq. |
| Photochemical Ozone Creation | 0.00453 | 21.5 kg ethene eq. |
| Acidification | 0.00986 | 71.2 kg SO ₂ eq. |

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