

Certificate no: **MTS/1103-2**

Phenolic External Wall Insulation System

PermaRock Products Ltd
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Test Information

Period of analysis

From 01 January 2006 to 31 December 2008

Data

Information collected from PermaRock Ltd including invoices and production records.
 LCA and EIA of product obtained from trade associations and published researches.
 Data to cover production of year ending 31-Dec-2008.

Methods used

LCA / environmental profile methods prescribed by the BRE (1999 and 2000)
 Eco points calculated as per BRE publication of 2001

Allocation

98% of primary materials assessed by mass

Boundaries

Cradle to grave

Comments

Cement mixes include by-product of other processes including GGBS, PFA, metakaolin and microsilica.

Cement mixes also include limestone in lieu of cement

Life Cycle

Well over the 60 years recommended life span of buildings in the UK

ENVIRONMENTAL PROFILE

Based on BRE methodologies for
 Environmental Profiles (1999) and Ecopoints (2001)

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Characterised data

Issues	Per m ² installed	Units
Climate Change	12.417	kg CO ₂ eq. (100yr)
Acid Deposition	0.177	kg SO ₂ eq.
Ozone Depletion	0.000	kg CFC ₁₁ eq.
<i>Pollution to Air:</i>		
Human toxicity	0.207	kg tox
Low level ozone creation	0.021	kg ethane eq. (POCP)
Fossil Fuel Depletion and extraction	0.000	tons eq.
<i>Pollution to Water</i>		
Human toxicity	0.000	kg tox
Ecotoxicity	0.029	m ³ tox
Eutrophication	0.0.23	kg PO ₄ eq.
Minerals extractions	0.011	tons
Water Extraction	707.592	litres
Waste disposal	0.005	tons

Normalised data

Issues	Per m ² installed	Units
Climate Change	0.001	kg CO ₂ eq. (100yr)
Acid Deposition	0.003	kg SO ₂ eq.
Ozone Depletion	0.000	kg CFC ₁₁ eq.
<i>Pollution to Air:</i>		
Human toxicity	0.0023	kg tox
Low level ozone creation	0.0007	kg ethane eq. (POCP)
Fossil Fuel Depletion and extraction	0.0001	tons eq.
<i>Pollution to Water</i>		
Human toxicity	0.0138	kg tox
Ecotoxicity	0.000	m ³ tox
Eutrophication	0.0028	kg PO ₄ eq.
Minerals extractions	0.0022	tons
Water Extraction	0.0017	litres
Waste disposal	0.0007	tons

Notes on GREEN GUIDE rating

Although rendering systems are not covered by the Green Guide to Specification, Mtech Consult has estimated the likely Ecopoints score for PermaRock Products Ltd Mineral Fibre External Wall Insulation system using BRE's Green Guide evaluation techniques and compared these results to the newly published Green Guide scales for exterior walls and party wall. Consequently, it has been determined that, should BRE undertake the rating of Permarock Ltd's Mineral Fibre External Wall Insulation system the product could achieve A or A⁺.

ECO POINTS

0.15

Prepared by: **Charles Westbrook**

Position: **Director**

Signed: *C. Westbrook*

Date: **19th April 2010**

The Profile is based on data provided by manufacturers for the stated period. MTECH CONSULT LTD has no responsibility for the environmental performance of the product. Profiles may only be distributed in their entirety and in accordance with the terms and conditions of any contract.