Environmental Product Declaration
according to ISO 14025 and EN 15804

This declaration is for:
Heraklith, homogeneous board

Provided by:
Knauf Insulation SPRL

program operator
Stichting MRPI®
publisher
Stichting MRPI®
www.mrpi.nl

MRPI® registration
1.1.00099.2020
date of first issue
21-02-2020
date of this issue
21-02-2020
expiry date
21-02-2025
PROGRAM OPERATOR
Stichting MRPI®
Kingsfordweg 151
1043GR
Amsterdam

COMPANY INFORMATION
Knauf Insulation SPRL
Rue de Maestricht 95
B-4600
Visé
Jean-Pierre Pigeolet
https://www.knaufinsulation.com/

SCOPE OF DECLARATION
This MRPI®-EPD certificate is verified by Pieter Stadhouders, Ecoreview.
The LCA study has been done by Dries Van Hout; Quentin Lancrenon, Greenfish.
The certificate is based on an LCA-dossier according to ISO14025 and NEN-EN15804+A1. It is verified according to the ‘EPD-MRPI® verification protocol May 2017.v3.1’. EPDs of construction products may not be comparable if they do not comply with NEN-EN15804+A1. Declaration of SVHC that are listed on the ‘Candidate List of Substances of Very High Concern for authorisation’ when content exceeds the limits for registration with ECHA.

VISUAL PRODUCT
Heraklith is a wood wool homogeneous product that is used as an insulation board. The product is painted in white on one side.

DESCRIPTION OF PRODUCT
Heraklith, homogeneous board

MRPI® REGISTRATION
1.1.00099.2020

DATE OF ISSUE
21-02-2020

EXPIRY DATE
21-02-2025

DECLARED UNIT/FUNCTIONAL UNIT
1m² Heraklith white with a thickness of 25 mm, a density of 420 kg/m³ and an R-value of 0,28 m²K/W

MORE INFORMATION
https://www.heraklith.com/

DEMONSTRATION OF VERIFICATION
CEN standard EN15804 serves as the core PCR[a]
Independent verification of the declaration and data, according to EN ISO 14025:2010:
internal:            external: X
(where appropriate[b]) Third party verifier:
Pieter Stadhouders, Ecoreview

DETAILED PRODUCT DESCRIPTION

The production process of wood wool insulation boards consists of three main processes:
1. Moulding: Preparation and blending of the raw materials followed by deposition of the mixture in a mould of the corresponding size;
2. Demoulding: Demoulding and drying of the products;
3. Finishing: Various sizing, forming, cutting and painting operations applied to the boards.

Product is delivered on pallets packaged with plastic film and cardboard protection. The estimated reference service life for the wood wool insulation boards is about 50 years, as long as the building equipment in which it is used. No maintenance is conducted during the lifetime.

<table>
<thead>
<tr>
<th>COMPONENT (&gt; 1%)</th>
<th>[kg / %]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement</td>
<td>51-53%</td>
</tr>
<tr>
<td>Spruce wood</td>
<td>33-31%</td>
</tr>
<tr>
<td>Water</td>
<td>10-11%</td>
</tr>
<tr>
<td>Paint</td>
<td>2%</td>
</tr>
</tbody>
</table>

(*) > 1% of total mass

SCOPE AND TYPE

The production is carried out at two different plants: Simbach (Germany) & Zalaegerszeg (Hungary). The wood wool boards are sold on the EU market. The product’s end of life scenario has been modelled with a European view and can comply with the Netherlands. Background references are sourced from Ecoinvent 3.4 database, with two NMD V3.0 additions, the EPD of the supplier is used for modelling cement. The LCA is conducted with Ecoinvent software. It is a specific EPD.

PRODUCT STAGE | CONSTRUCTION | USE STAGE | END OF LIFE | BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES

<table>
<thead>
<tr>
<th>Raw material supply</th>
<th>Transport</th>
<th>Manufacturing</th>
<th>Transport gate to site</th>
<th>Assembly</th>
<th>Use</th>
<th>Maintenance</th>
<th>Repair</th>
<th>Replacement</th>
<th>Refurbishment</th>
<th>Operational energy use</th>
<th>Operational water use</th>
<th>De-construction demolition</th>
<th>Transport</th>
<th>Waste processing</th>
<th>Disposal</th>
<th>Reuse</th>
<th>Recovery</th>
<th>Recycling-potential</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>A2</td>
<td>A3</td>
<td>A4</td>
<td>A5</td>
<td>B1</td>
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<td>C1</td>
<td>C2</td>
<td>C3</td>
<td>C4</td>
<td>D</td>
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</table>

X = Module assessed
MNA = Module not assessed

REPRESENTATIVENESS

The production of Heraklith in the Knauf Insulation plants in Simbach & Zalaegerszeg is representative for the EU market.
### ENVIRONMENTAL IMPACT per functional unit or declared unit

<table>
<thead>
<tr>
<th>UNIT</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A1-A3</th>
<th>A4</th>
<th>A5</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
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</tr>
</tbody>
</table>

### Toxicity indicators (Dutch market)

| HTP | kg DCB-eq. | 1.19 | 9.63 | 2.48 | 1.54 | 3.92 | 4.65 | E-1 | E-1 | E-1 | E-2 | E-2 | E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.48 | E-2 | 1.18 | E-2 | 4.09 | E-2 | -1.00 | E-2 |
| FAETP | kg DCB-eq. | 1.05 | 2.67 | 4.12 | 1.49 | 1.09 | 3.08 | E-2 | E-2 | E-2 | E-2 | E-2 | E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.64 | E-4 | 3.38 | E-4 | 9.94 | E-4 | -1.15 | E-4 |
| MAETP | kg DCB-eq. | 1.46 | 1.03 | 2.33 | 3.89 | 4.17 | 9.69 | E-2 | E-2 | E-2 | E-2 | E-2 | E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.70 | E+0 | 3.21 | E+2 | 3.33 | E+0 | -5.25 | E-1 |
| TETP | kg DCB-eq. | 1.26 | 3.42 | 2.43 | 1.54 | 1.39 | 5.49 | E-2 | E-2 | E-2 | E-2 | E-2 | E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | E-2 | 7.78 | E-4 | 9.43 | E-5 | -3.17 | E-5 |

### Environmental Cost Indicator (Dutch market)

| ECI | Euro | 3.41 | 2.79 | 1.59 | 5.28 | 1.13 | 1.50 | E-1 | E-2 | E-1 | E-2 | E-2 | E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.01 | E-2 | 1.04 | E-1 | 1.31 | E-2 | -1.18 | E-2 |

**Note:**
- **INA** = Indicator Not Assessed
- **ADPE** = Abiotic Depletion Potential for non-fossil resources
- **ADPF** = Abiotic Depletion Potential for fossil resources
- **GWP** = Global Warming Potential
- **ODP** = Depletion potential of the stratospheric ozone layer
- **POCP** = Formation potential of tropospheric ozone photochemical oxidants
- **AP** = Acidification Potential of land and water
- **EP** = Eutrophication Potential
- **HTP** = Human Toxicity Potential
- **FAETP** = Fresh water aquatic ecotoxicity potential
- **MAETP** = Marine aquatic ecotoxicity potential
- **TETP** = Terrestrial ecotoxicity potential
- **ECI** = Environmental Cost Indicator

[Image of Heraklith logo]

**Heraklith®**
## Resource Use per Functional Unit or Declared Unit

<table>
<thead>
<tr>
<th>Unit</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A1-A3</th>
<th>A4</th>
<th>A5</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
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<th>B5</th>
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<th>C1</th>
<th>C2</th>
<th>C3</th>
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</table>

INA = Indicator Not Assessed  
PERE = Use of renewable energy excluding renewable primary energy resources  
PERM = Use of renewable energy resources used as raw materials  
PENRE = Total use of renewable primary energy resources excluding non-renewable energy resources used as raw materials  
PENRM = Use of non-renewable primary energy resources excluding non-renewable energy resources used as raw materials  
SM = Use of secondary materials  
NRSF = Use of non renewable secondary fuels  
FW = Use of net fresh water

## Output Flows and Waste Categories per Functional Unit or Declared Unit

<table>
<thead>
<tr>
<th>Unit</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A1-A3</th>
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INA = Indicator Not Assessed  
HWD = Hazardous Waste Disposed  
NHWD = Non-Hazardous Waste Disposed  
RWD = Radioactive Waste Disposed  
MFR = Materials for recycling  
MER = Materials for energy recovery  
EEE = Exported Electrical Energy  
ETE = Exported Thermal Energy

www.mrpi.nl: 1.1.00099.2020 Heraklith, homogeneous board
CALCULATION RULES
All relevant inputs and outputs - like emissions, energy and materials - have been taken into account in this LCA. And in accordance with EN 15804, the total neglected input flows per module do not exceed 5% of energy usage and mass. In a LCA, the environmental burden is often divided over several product systems. In this LCA, the waste processes are allocated in the relevant module. In the case of the use of secondary materials or energy recovered from secondary fuels, the system boundary between the system under study and the previous system (providing the secondary materials) is set where outputs of the previous system, e.g. materials, products, building elements or energy, reach the end-of-waste state.

The end-of-waste state is determined by the economic cut-off method. This means that the environmental impacts of processes that cause costs for the initial product, like waste processing, are allocated to the initial product’s life cycle. When processes raise the value of materials, which is for example the case in certain recycling processes, the environmental impact of the recycling process is allocated to the life cycle of the recovered materials. In this LCA, the data relating to the manufacturing of the wood wool insulation boards and the background processes for environmental impacts are relatively recent (2-5 years) and deviate less than 5% from reality. The processes used in the production of the wood wool insulation boards are relatively representative for the geographic region, meaning that the production location of the wood wool insulation boards lies within a similar region for which the relevant Ecoinvent environmental records have been selected. Allocation by mass, so eventual environmental profile 37.8% Simbach, 62.2% Zalaegerszeg. Total considered Heraklith products amount to 3.169% (Simbach) and 0.590% (Zalaegerszeg) of total mass of products produced in both plants. These percentages are used for allocation of the the total usage and emissions of both plants. The collected data is from the year 2018.

SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION
- Raw material supply, transport and manufacturing (A1-A3) Treatment, transport and credits for incineration production waste included in A3;
- Transport to the customer and installation (A4-A5) During installation 2% product losses are considered;
- Transport after demolition, waste processing and disposal (C2-C4) An EOL scenario with 10% incineration, 90% landfill is considered;
- Reuse, recovery or recycling potential (from materials and/or useful energy carriers leaving the system boundaries) (D).

<table>
<thead>
<tr>
<th>Reporting GWP separately (kg CO2-eq)</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A4</th>
<th>A5</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>D</th>
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</thead>
<tbody>
<tr>
<td>GWP - Total</td>
<td>1.68E+0</td>
<td>2.58E-1</td>
<td>1.71E+0</td>
<td>1.05E+0</td>
<td>1.11E-1</td>
<td>9.30E-2</td>
<td>1.17E+0</td>
<td>9.24E-2</td>
<td>-1.97E-1</td>
</tr>
<tr>
<td>GWP - Biogenic</td>
<td>-5.57E+0</td>
<td>0.00E+0</td>
<td>0.00E+0</td>
<td>0.00E+0</td>
<td>-1.11E-1</td>
<td>0.00E+0</td>
<td>5.57E-1</td>
<td>0.00E+0</td>
<td>0.00E+0</td>
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<tr>
<td>GWP - Fossil</td>
<td>7.25E+0</td>
<td>2.58E-1</td>
<td>1.71E+0</td>
<td>1.05E+0</td>
<td>2.23E-1</td>
<td>9.30E-2</td>
<td>6.17E-1</td>
<td>9.24E-2</td>
<td>-1.97E-1</td>
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</table>
DECLARATION OF SVHC
The product does not contain substances on the "Candidate List of Very High Concern for Authorisation" under the REACH regulation (if above 0,1% of the mass).

REFERENCES

REMARKS
The Heraklith wood wool plants of Simbach and Zalaegerszeg are both ISO 9001, ISO 14001, ISO 50001 and ISO 45001 certified under the scope "Design, Development and Production of Insulation Materials and Systems".