

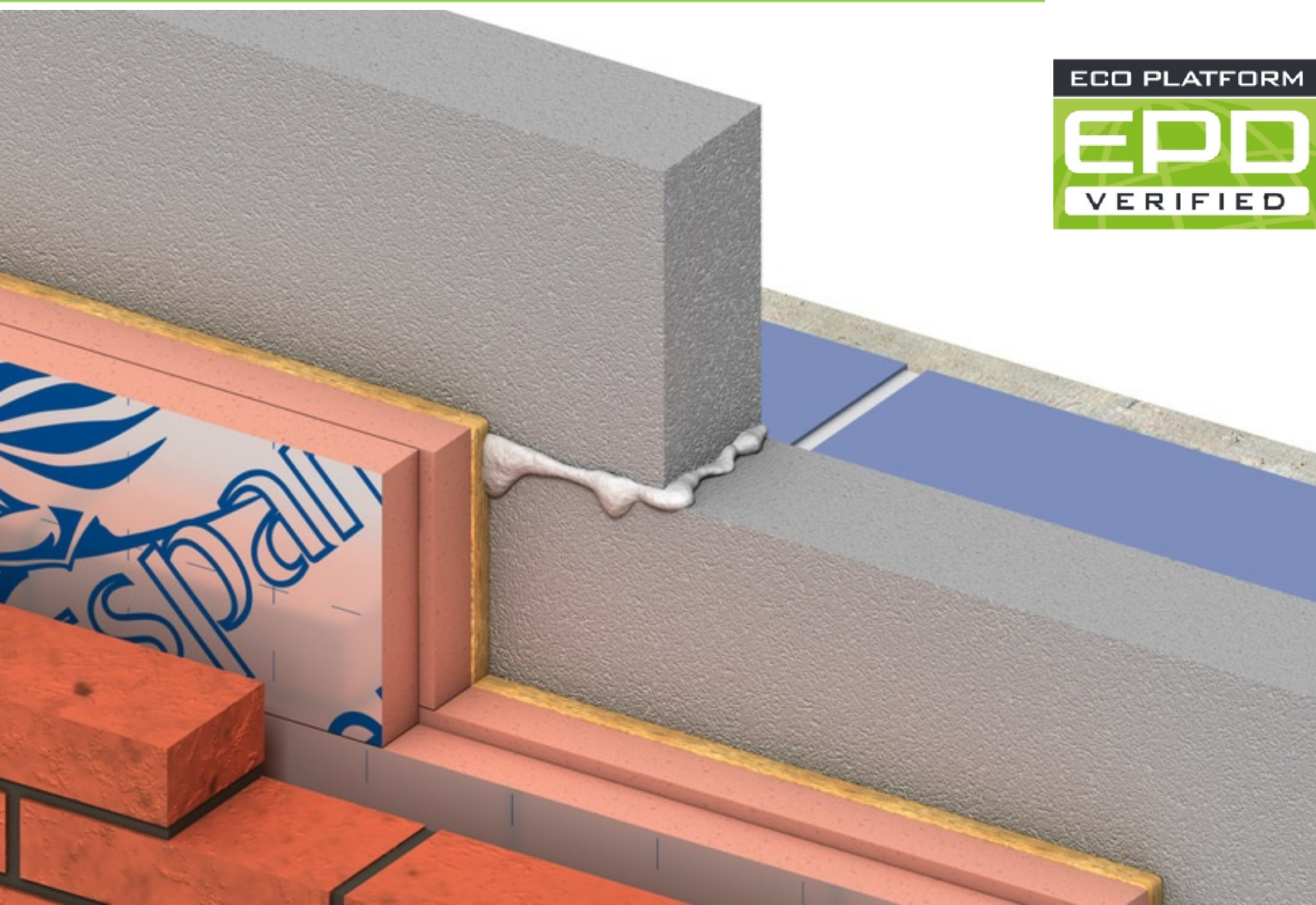
# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Kingspan Insulation B.V.
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-KSI-20230167-CBA1-EN
Issue date	11.07.2023
Valid to	10.07.2028

**Kooltherm® K8 D Plus**  
**Kingspan Insulation B.V.**

[www.ibu-epd.com](http://www.ibu-epd.com) | <https://epd-online.com>



## General Information

### Kingspan Insulation B.V.

#### Programme holder

IBU – Institut Bauen und Umwelt e.V.  
Hegelplatz 1  
10117 Berlin  
Germany

#### Declaration number

EPD-KSI-20230167-CBA1-EN

#### This declaration is based on the product category rules:

Insulating materials made of foam plastics, 01.08.2021  
(PCR checked and approved by the SVR)

#### Issue date

11.07.2023

#### Valid to

10.07.2028



Dipl.-Ing. Hans Peters  
(Chairman of Institut Bauen und Umwelt e.V.)



Florian Pronold  
(Managing Director Institut Bauen und Umwelt e.V.)

### Kooltherm® K8 D Plus

#### Owner of the declaration

Kingspan Insulation B.V.  
Lingewei 8  
4004LL Tiel  
Netherlands

#### Declared product / declared unit

Kooltherm® K8 D Plus Cavity Wall Board 1 m<sup>2</sup>, 120 mm thickness (100mm Kooltherm + 20mm mineral wool) R<sub>D</sub> = 5,35 m<sup>2</sup>-K/W

#### Scope:

The insulation material Kooltherm® is produced by Kingspan Insulation B.V. at the manufacturing facility in Tiel, the Netherlands. A composite foil based facing is autohesively bonded to the insulation core during manufacture. On the backside a 20mm mineral wool layer is bonded afterwards.

In order to enable the user of the EPD to calculate the LCA results for different thicknesses, the EPD contains the respective calculation rules. The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

#### Verification

The standard EN 15804 serves as the core PCR		
Independent verification of the declaration and data according to ISO 14025:2011		
<input type="checkbox"/>	internally	<input checked="" type="checkbox"/> externally



Vito D'Incognito,  
(Independent verifier)

## Product

### Product description/Product definition

Kooltherm® K8 D Plus is a rigid thermoset cellular insulation material faced on both sides with a composite foil based facing. On the backside a mineral wool (20 mm) is bonded. The product is available in variable thicknesses from 40 mm (20+20 mm) up to 220 mm (200+20 mm). This EPD covers one of the most commonly sold thickness of 120 mm (100+20 mm) with an  $R_D$ -value of 5,35 m<sup>2</sup>·K/W.

For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) Regulation (EU) No. 305/2011 (CPR) applies. The product needs a declaration of performance taking into consideration EN 13166:2012+A2:2016 - Thermal insulation products for buildings - Factory made phenolic foam (PF) products - Specification and the CE-marking. For the application and use the respective national provisions apply.

### Application

Due to its high insulating value, Kooltherm® K8 D Plus is suitable for use as cavity wall insulation. The extra layer mineral wool (20 mm) will absorb unevenness in a construction, which makes Kooltherm® K8 D Plus suitable for renovation projects.

### Technical Data

#### Constructional data

Name	Value	Unit
Compressive strength acc. to EN 13166	≥ 100	kPa
Thermal conductivity $\lambda_d$ acc. to EN 13166 for d = 20 – 44 mm	0.021	W/(mK)
Thermal conductivity $\lambda_d$ acc. to EN 13166 for d = 45 – 120 mm	0.021	W/(mK)
Thermal conductivity $\lambda_d$ acc. to EN 13166 for d = 121 – 159 mm	0.021	W/(mK)
Thermal conductivity $\lambda_d$ (mineral wool) acc. to EN 13162 for d = 20 mm	0.034	W/(mK)

Technical parameters not included are modulus of elasticity as well as sound absorption (not relevant for this application), and creep (not placed under permanent load).

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to EN 13166:2012+A2:2016 - Thermal insulation products for buildings - Factory made phenolic foam (PF) products - Specification

### Base materials/Ancillary materials

The main materials are phenolic (PF) resin (between 70-80%) with added catalyst and additives (between 15-20%). Phenolic rigid foam onto a facing material (between 5-10%) is formed by the chemical reaction of these materials and adding a blowing agent with no ozone depletion potential (ca. 5%). Due to the closed-cell structure (conform EN 13166), the blowing agent remains in the foam. In the current REACH regulations, phenolic foam insulation products are considered 'articles' and are exempt from the requirements of Article 57 and 59(1) of REACH Regulation (EC) No 1907/2006. These products are not classified as 'hazardous products' according to any current legislation, and can hence be declared as follows:

- This article contains substances listed in the candidate list (date: 19.01.2021) exceeding 0.1 percentage by mass: **no**.
- This article contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: **no**.
- Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) Biocidal Products Regulation No. 528/2012 (BPR): **no**.

The chemical functional group of the additives used in the resin is that of non-ionic surfactants.

### Reference service life

The reference service life is not to be declared in this EPD as it does not cover the use stage.

## LCA: Calculation rules

### Declared Unit

The declared unit (1 m<sup>2</sup>) and conversion factors are listed in the table below.

#### Declared unit

Name	Value	Unit
Declared unit thickness 120 mm (100+20 mm)	1	m <sup>2</sup>
Gross density	34.1	kg/m <sup>3</sup>
conversion factor [Mass/Declared Unit] ( in kg/m <sup>2</sup> )	4.092	-
Grammage	4.092	kg/m <sup>2</sup>
Layer thickness	0.12	m

### System boundary

Type of EPD: according to EN 15804: cradle to gate with options, modules C1–C4, and module D (A1–A3, C, D and additional modules: A4,A5).

According to PCR Part A:

1a) declaration of one specific product from one plant of one manufacturer;

The product stage is a mandatory information module and it covers:

- A1, raw material extraction and processing,

processing of secondary material input (e.g. recycling processes),

- A2, transport to the manufacturer,
- A3, manufacturing, including provision of all materials, products and energy, packaging processing and its transport, as well as waste processing up to the end-of-waste state or disposal of final residues during the product stage.

The construction process stage includes:

- A4 transport to the building site;
- A5 installation in the building including provision of all materials, products and energy, as well as waste processing up to the end-of-waste state or disposal of final residues during the construction process stage.

The end-of-life stage is a mandatory information module and it covers:

- C1 de-construction, demolition;
- C2 transport to waste processing;
- C3 waste processing for reuse, recovery and/or recycling;
- C4 disposal (not applicable for this EPD) including provision and all transport, provision of all materials, products and related energy and water use.

Environmental burden of the incineration (R1 > 60%) of the product at the end-of-life stage are assigned to the product system (C3); resulting potential credits for thermal and electrical energy from energy substitution are declared in module D.

#### Renewable electricity sources for manufacturing

All electricity used during production comes from renewable sources.

By generating energy on-site with solar panels and with procured energy from fully certified renewable sources.

Following the global Net Zero Energy strategy from Kingspan Group plc.

#### Period under review

The input data for raw material production and the consumption of process energy on the manufacturing facility was measure data during January 1st 2019 to December 31st 2019, i.e. collected over a 12 month period.

## LCA: Scenarios and additional technical information

#### Characteristic product properties of biogenic carbon

The total mass of biogenic carbon containing materials is less than 5 % of the total mass of the product and accompanying packaging.

#### Technical information

The following technical information is a basis for the declared modules or can be used for developing specific scenarios in the context of a building assessment.

#### Transport to the building site (A4)

Name	Value	Unit
Litres of fuel	0.0103	l/100km
Transport distance	100	km
Gross density of products transported	34.1	kg/m <sup>3</sup>

#### Installation into the building (A5)

Name	Value	Unit
Output substances following waste treatment on site packaging material	0.08	kg

Within A1-A3 the following packaging of the final product is included:

Polyethylene cover and wrap: 0,06 kg/m<sup>2</sup>

Others (mainly Expanded Polystyrene skid): 0,02 kg/m<sup>2</sup>

The recycling of the packaging is considered in A5.

In case a **reference service life** according to applicable ISO standards is declared then the assumptions and in-use

#### Background database

Background data from GaBi software-system version 9 with Service Packs 39 GaBi ts is used.

#### Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Europe

#### Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

conditions underlying the determined RSL shall be declared. In addition, it shall be stated that the RSL applies to the reference conditions only.

The same holds for a service life declared by the manufacturer. Corresponding information related to in-use conditions needs not be provided if a service life taken from the list of service life by *BNB* is declared.

#### End of life (C1-C4)

The assumptions for C1 are: diesel driven excavator (100 kW; 0.2 litre fuel per ton excavated material).

The assumptions for C2 are: Truck Euro 6, diesel driven, 26-28 t gross weight, assumed distance 50 km

Name	Value	Unit
Collected as mixed construction waste	4.09	kg
Energy recovery	4.09	kg
R1-value of waste incineration plant	>60	%

#### Reuse, recovery and/or recycling potentials (D), relevant scenario information

Waste incineration with energy recuperation is assumed as end-of-life scenario

## LCA: Results

Disclaimer:

EP-freshwater: This indicator has been calculated as “kg P eq” as required in the characterization model (EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe; <http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml>)

**DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)**

Product stage			Construction process stage		Use stage							End-of-life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

### RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m<sup>2</sup> 120 mm thickness (100+20 mm)

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq	8.75E+00	3.51E-02	2E-01	2.64E-03	1.75E-02	8.29E+00	0	-3.55E+00
GWP-fossil	kg CO <sub>2</sub> eq	8.9E+00	3.47E-02	2E-01	2.64E-03	1.74E-02	8.29E+00	0	-3.54E+00
GWP-biogenic	kg CO <sub>2</sub> eq	-2.28E-01	-2.11E-04	-3.63E-06	-1.86E-07	-1.06E-04	8.57E-04	0	-6.87E-03
GWP-luluc	kg CO <sub>2</sub> eq	7.95E-02	5.31E-04	7.2E-06	8.97E-08	2.66E-04	1.19E-04	0	-2.41E-03
ODP	kg CFC11 eq	1.31E-08	4.22E-18	5.97E-17	2.54E-19	2.11E-18	1.14E-15	0	-3.62E-14
AP	mol H <sup>+</sup> eq	2.7E-02	4.1E-05	2.76E-05	1.26E-05	2.05E-05	4.76E-03	0	-6.69E-03
EP-freshwater	kg P eq	2.83E-05	1.68E-07	1.05E-08	4.7E-10	8.38E-08	2.92E-07	0	-4.66E-06
EP-marine	kg N eq	5.93E-03	1.26E-05	7.28E-06	5.87E-06	6.32E-06	2.26E-03	0	-1.54E-03
EP-terrestrial	mol N eq	7.84E-02	1.48E-04	1.2E-04	6.43E-05	7.41E-05	2.61E-02	0	-1.65E-02
POCP	kg NMVOC eq	2.27E-02	3.3E-05	2.09E-05	1.67E-05	1.65E-05	5.82E-03	0	-4.41E-03
ADPE	kg Sb eq	6.56E-06	2.42E-09	8.6E-10	6.96E-11	1.21E-09	1.93E-08	0	-5.53E-07
ADPF	MJ	2.22E+02	4.63E-01	7.91E-02	3.59E-02	2.31E-01	2.45E+00	0	-6.14E+01
WDP	m <sup>3</sup> world eq deprived	1.49E+00	7.49E-04	2.08E-02	4.62E-06	3.75E-04	8.54E-01	0	-3.29E-01

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

### RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m<sup>2</sup> 120 mm thickness (100+20 mm)

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	3.85E+01	2.69E-02	1.53E-02	1.05E-04	1.34E-02	3.42E-01	0	-1.24E+01
PERM	MJ	0	0	0	0	0	0	0	0
PERT	MJ	3.85E+01	2.69E-02	1.53E-02	1.05E-04	1.34E-02	3.42E-01	0	-1.24E+01
PENRE	MJ	1.25E+02	4.63E-01	7.92E-02	3.59E-02	2.32E-01	1E+02	0	-6.14E+01
PENRM	MJ	9.76E+01	0	0	0	0	-9.76E+01	0	0
PENRT	MJ	2.22E+02	4.63E-01	7.92E-02	3.59E-02	2.32E-01	2.45E+00	0	-6.14E+01
SM	kg	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m <sup>3</sup>	6.32E-02	4.54E-05	4.94E-04	1.95E-07	2.27E-05	2.02E-02	0	-1.46E-02

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

### RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m<sup>2</sup> 120 mm thickness (100+20 mm)

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	8.87E-05	2.59E-08	3.71E-10	3.8E-12	1.29E-08	4.89E-09	0	-2.52E-08
NHWD	kg	3.73E-01	3.77E-05	1.93E-02	2.14E-07	1.88E-05	2.42E-01	0	-2.65E-02
RWD	kg	3.54E-03	6.29E-07	3.64E-06	4.13E-08	3.14E-07	1.12E-04	0	-4.95E-03
CRU	kg	0	0	0	0	0	0	0	0

MFR	kg	0	0	0	0	0	0	0	0
MER	kg	0	0	7.99E-02	0	0	4.09E+00	0	0
EEE	MJ	0	0	4.43E-01	0	0	1.43E+01	0	0
EET	MJ	0	0	7.98E-01	0	0	2.56E+01	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

### RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 m2 120 mm thickness (100+20 mm)

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	2.64E-07	2.36E-10	3.77E-10	1.41E-10	1.18E-10	1.64E-08	0	-5.67E-08
IR	kBq U235 eq	5.84E-01	9.21E-05	4.82E-04	6.03E-06	4.6E-05	1.73E-02	0	-8.13E-01
ETP-fw	CTUe	1.28E+02	3.12E-01	5.6E-02	2.42E-02	1.56E-01	9.55E-01	0	-1.36E+01
HTP-c	CTUh	8.91E-09	6.26E-12	4.28E-12	4.12E-13	3.13E-12	1.35E-10	0	-2.5E-09
HTP-nc	CTUh	1.15E-07	2.52E-10	3.14E-10	1.44E-11	1.26E-10	1.95E-09	0	-1.26E-08
SQP	SQP	4.66E+01	2.09E-01	1.99E-02	9.39E-05	1.04E-01	5.16E-01	0	-9.23E+00

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

#### Disclaimer 1 – for the indicator IR

This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

#### Disclaimer 2 – for the indicators ADPE, ADPF, WDP, ETP-fw, HTP-c, HTP-nc, SQP

The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

#### Factors for different thicknesses

The LCA results for the insulation material declared in this EPD refer to a product with a thickness of 120 mm (100+20 mm). To enable the user of the EPD to calculate the results for different thicknesses the factors in the following table can be used for the calculation. For modules A1- A3, C3 and D the LCA results in chapter 5 have to be multiplied with these factors. As the 20 mm mineral wool layer is for all products equal, it is the Kooltherm insulation foam that is scaling up- and downwards in thickness and is responsible for the different scaling factors.

K8 D Plus	Module A1 - A3					Module C					Module D				
	120 mm	40 mm	100 mm	140 mm	220 mm	120 mm	40 mm	100 mm	140 mm	220 mm	120 mm	40 mm	100 mm	140 mm	220 mm
GWP - total	1	0,37	0,86	1,16	1,80	1	0,25	0,81	1,19	1,93	1	0,25	0,83	1,19	1,94
GWP - fossil	1	0,39	0,86	1,16	1,78	1	0,25	0,81	1,19	1,93	1	0,25	0,82	1,19	1,94
GWP - biogenic	1	0,87	0,97	1,03	1,17	1	0,68	0,92	1,08	1,40	1	0,25	0,83	1,19	1,94
GWP - luluc	1	0,18	0,79	1,20	2,02	1	0,49	0,87	1,13	1,62	1	0,25	0,83	1,19	1,94
ODP	1	0,14	0,79	1,21	2,07	1	0,35	0,84	1,16	1,81	1	0,25	0,83	1,19	1,94
AP	1	0,60	0,91	1,10	1,50	1	0,22	0,81	1,19	1,97	1	0,25	0,83	1,19	1,94
EP - freshwater	1	0,33	0,84	1,17	1,83	1	0,57	0,89	1,11	1,54	1	0,25	0,83	1,19	1,94
EP - marine	1	0,48	0,88	1,13	1,65	1	0,22	0,81	1,19	1,98	1	0,25	0,82	1,19	1,94
EP - terrestrial	1	0,61	0,91	1,10	1,49	1	0,22	0,80	1,20	1,98	1	0,25	0,82	1,19	1,94
POCP	1	0,39	0,91	1,16	1,76	1	0,22	0,80	1,20	1,98	1	0,25	0,83	1,19	1,94
ADPF	1	0,29	0,84	1,18	1,89	1	0,32	0,83	1,17	1,85	1	0,25	0,83	1,19	1,94
ADPE	1	0,19	0,80	1,20	2,01	1	0,34	0,83	1,16	1,82	1	0,25	0,82	1,19	1,93
WDP	1	0,36	0,85	1,16	1,80	1	0,29	0,82	1,18	1,89	1	0,25	0,83	1,19	1,94

This EPD was created using a software tool.

## References

### EN13162

EN 13162:2012+A1:2015: Thermal insulation products for buildings. Factory made mineral wool (MW) products. Specification

### EN 13166

EN 13166:2012+A2:2016: Thermal insulation products for buildings. Factory made phenolic foam (PF) products. Specification

### EN 15804+A2

EN15804/A2: Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products, 2019

### BPR

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

### CPR

Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised condition for the marketing of construction products and repealing Council Directive 89/106/EC

### GaBi ts

thinkstep AG: Leinfelden-Echterdingen GaBi Software- System

**IBU 2016**

IBU (2016): General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V., Version 1.1 Institut Bauen und Umwelt e.V., Berlin, [www.ibu-epd.de](http://www.ibu-epd.de)

**ISO 14025**

EN ISO 14025:2011-10 - Environmental labels and declarations — Type III environmental declarations — Principles and procedures

**LCA-tool**

Kingspan LCA tool, version 1.0. IBU-KSI-202001-LT1-EN. Developed by Sphera Solutions GmbH (formerly Thinkstep GmbH)

**PCR Version 1.7, Part A**

Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Building-Related Products and services, Part A:

Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report , March 2018

**PCR 2017, Part B**

Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part B: Requirements on the EPD for insulating materials made of foam plastics. June 2017

**REACH**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) <https://echa.europa.eu/candidate-list-table>; accessed 19th of January 2021, 211 substances listed.

**Renewable Energy Certificate**

Towarowa Gielda Energii S.A.: Guarantees of origin Document ID: RGP\_ACTBV\_2019-12-31\_0720



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