

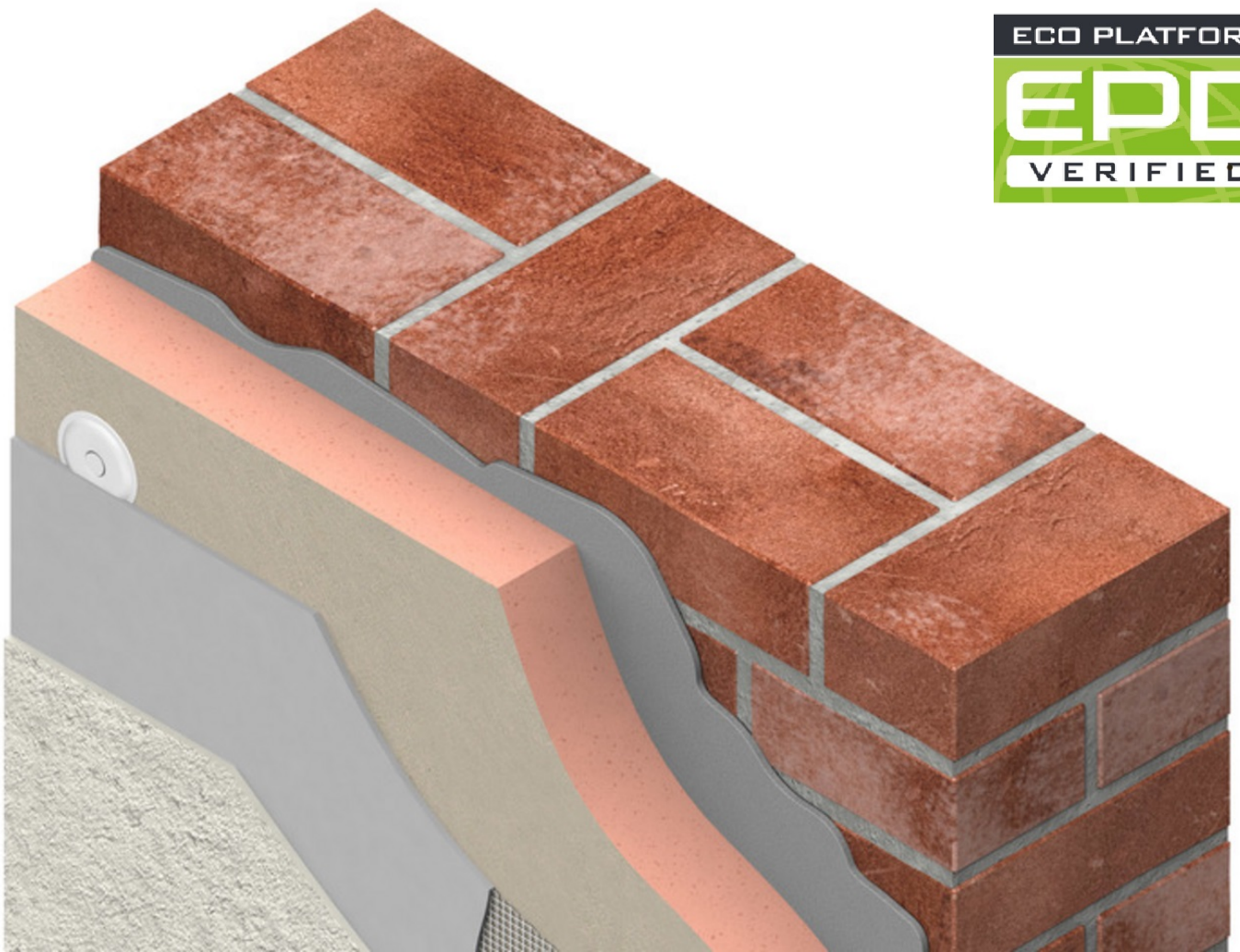
ENVIRONMENTAL PRODUCT DECLARATION

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-20240318-CBC1-EN
Issue date	24.09.2024
Valid to	23.09.2029

Kooltherm® K5
Kingspan Insulation B.V.

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-20240318-CBC1-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

24.09.2024

Valid to

23.09.2029



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



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

Kooltherm® K5

Owner of the declaration

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

Declared product / declared unit

Kooltherm® K5, External Wall Board
1m², 100 mm thickness, R_D = 4,75 m²·K/W

Scope:

The insulation material Kooltherm® K5 is produced by Kingspan Insulation B.V. at the manufacturing facility in Tiel, the Netherlands.

Kooltherm® K5 is a rigid thermoset cellular insulation material faced on both sides with a glass tissue based facing.

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® K5 is a rigid thermoset cellular insulation material faced on both sides with a glass tissue based facing. The product is available in variable thicknesses from 20 mm up to 200 mm. This EPD covers one of the most commonly sold thicknesses: 100 mm with an R_D -value of $4,75 \text{ m}^2 \cdot \text{K/W}$.

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 - 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

Kooltherm® K5 is suitable for use as external thermal insulation underneath applicable render systems.

Technical Data

Constructional data

Name	Value	Unit
Compressive strength acc. to EN 13166	CS(Y)100	
Tensile strength acc. to EN 13166	TR80	
Thermal conductivity λ_d acc. to EN 13166	0.021	W/(mK)
Short term water absorption acc. to EN 13166 acc. to EN 13166	WS2	

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). The short term water absorption is tested to show the influence of water exposure during construction; the other water absorption/moisture characteristics are not applicable for the product application.

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

Base materials/Ancillary materials

The main materials of the product are phenolic (PF) resin (between 65-75%), a catalyst and additives (between 15-20%), a blowing agent (between 5-7%) and glass fleece facings (depending on the product thickness between 2-12%). Due to the closed cell structure (conform EN 13166), the blowing agent is permanent.

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: 12.07.2024) 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 m²) and conversion factors are listed in the table below.

Declared unit

Name	Value	Unit
Declared unit	1	m ²
Gross density (foam)	>35	kg/m ³
Grammage	3.88	kg/m ²
Layer thickness	0.1	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).

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 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 measured during January 1st 2022 to December 31st 2022, i.e. collected over a 12 month period.

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.

Background data from GaBi software-system version 10 with GaBi data sets CUP2022.1 is used.

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.

Information on describing the biogenic Carbon Content at factory gate

The total mass of biogenic carbon containing materials is less than 5 %.

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	-	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

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.

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	3.88	kg
Energy recovery	3.88	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

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = 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	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m2 100 mm thickness

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Global Warming Potential total (GWP-total)	kg CO ₂ eq	8.03E+00	2.49E-03	1.63E-02	8.4E+00	0	-3.29E+00
Global Warming Potential fossil fuels (GWP-fossil)	kg CO ₂ eq	8E+00	2.49E-03	1.63E-02	8.4E+00	0	-3.27E+00
Global Warming Potential biogenic (GWP-biogenic)	kg CO ₂ eq	-6.26E-02	3.33E-06	-2.25E-05	5.75E-04	0	-1.68E-02
Global Warming Potential luluc (GWP-luluc)	kg CO ₂ eq	9.95E-02	3.07E-08	9.07E-05	1.94E-05	0	-3.6E-04
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC11 eq	1.78E-08	1.53E-16	9.75E-16	6.34E-13	0	-2.22E-11
Acidification potential of land and water (AP)	mol H ⁺ eq	1.56E-02	1.16E-05	1.68E-05	4.91E-03	0	-4.31E-03
Eutrophication potential aquatic freshwater (EP-freshwater)	kg P eq	2.87E-05	5.02E-10	4.86E-08	1.91E-07	0	-4.51E-06
Eutrophication potential aquatic marine (EP-marine)	kg N eq	4.53E-03	5.5E-06	5.48E-06	2.37E-03	0	-1.17E-03
Eutrophication potential terrestrial (EP-terrestrial)	mol N eq	4.49E-02	6.02E-05	6.53E-05	2.73E-02	0	-1.25E-02
Formation potential of tropospheric ozone photochemical oxidants (POCP)	kg NMVOC eq	2.23E-02	1.56E-05	1.48E-05	6.1E-03	0	-3.27E-03
Abiotic depletion potential for non fossil resources (ADPE)	kg Sb eq	8.29E-06	1.02E-10	1.36E-09	1.74E-08	0	-4.95E-07
Abiotic depletion potential for fossil resources (ADPF)	MJ	2.41E+02	3.36E-02	2.17E-01	2.21E+00	0	-5.57E+01
Water use (WDP)	m ³ world eq deprived	1.3E+00	4.62E-06	1.46E-04	8.37E-01	0	-3.5E-01

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m2 100 mm thickness

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Renewable primary energy as energy carrier (PERE)	MJ	2.71E+01	1.27E-04	1.24E-02	3.89E-01	0	-1.53E+01
Renewable primary energy resources as material utilization (PERM)	MJ	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT)	MJ	2.71E+01	1.27E-04	1.24E-02	3.89E-01	0	-1.53E+01
Non renewable primary energy as energy carrier (PENRE)	MJ	1.2E+02	3.37E-02	2.18E-01	1.21E+02	0	-5.57E+01
Non renewable primary energy as material utilization (PENRM)	MJ	1.21E+02	0	0	-1.18E+02	0	0
Total use of non renewable primary energy resources (PENRT)	MJ	2.41E+02	3.37E-02	2.18E-01	2.21E+00	0	-5.57E+01
Use of secondary material (SM)	kg	0	0	0	0	0	0
Use of renewable secondary fuels (RSF)	MJ	0	0	0	0	0	0
Use of non renewable secondary fuels (NRSF)	MJ	0	0	0	0	0	0
Use of net fresh water (FW)	m ³	5.1E-02	1.92E-07	1.4E-05	1.97E-02	0	-1.47E-02

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m2 100 mm thickness

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed (HWD)	kg	1.2E-04	1.11E-13	1.04E-12	3E-10	0	-7.53E-09
Non hazardous waste disposed (NHWD)	kg	1.12E-01	3.16E-06	3.12E-05	8.65E-02	0	-2.82E-02
Radioactive waste disposed (RWD)	kg	2.31E-03	3.69E-08	2.68E-07	9.16E-05	0	-4.39E-03
Components for re-use (CRU)	kg	0	0	0	0	0	0
Materials for recycling (MFR)	kg	0	0	0	0	0	0
Materials for energy recovery (MER)	kg	0	0	0	3.88E+00	0	0
Exported electrical energy (EEE)	MJ	0	0	0	1.45E+01	0	0
Exported thermal energy (EET)	MJ	0	0	0	2.6E+01	0	0

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

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Incidence of disease due to PM emissions (PM)	Disease incidence	1.65E-07	1.31E-10	9.68E-11	1.42E-08	0	-3.57E-08
Human exposure efficiency relative to U235 (IR)	kBq U235 eq	3.71E-01	5.38E-06	3.93E-05	1.47E-02	0	-7.44E-01
Comparative toxic unit for ecosystems (ETP-fw)	CTUe	8.97E+01	2.34E-02	1.51E-01	7.83E-01	0	-1.23E+01
Comparative toxic unit for humans (carcinogenic) (HTP-c)	CTUh	3.75E-09	4.33E-13	3.04E-12	5.73E-11	0	-5.62E-10
Comparative toxic unit for humans (noncarcinogenic) (HTP-nc)	CTUh	1.29E-07	2.19E-11	1.58E-10	2.14E-09	0	-2.16E-08

Soil quality index (SQP)	SQP	1.55E+01	9.28E-05	7.48E-02	4.69E-01	0	-9.95E+00
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Disclaimer 1 – for the indicator 'Potential Human exposure efficiency relative to U235'. 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 or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators 'abiotic depletion potential for non-fossil resources', 'abiotic depletion potential for fossil resources', 'water (user) deprivation potential, deprivation-weighted water consumption', 'potential comparative toxic unit for ecosystems', 'potential comparative toxic unit for humans – cancerogenic', 'Potential comparative toxic unit for humans - not cancerogenic', 'potential soil quality index'. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high 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 100 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, C1-C4 and D the LCA results have to be multiplied with these factors.

Module A1-A3	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm	80 mm	90 mm	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm
GWP - total	0.28	0.37	0.44	0.53	0.63	0.72	0.81	0.91	1.00	1.24	1.44	1.65	1.84	2.02
GWP - fossil	0.28	0.37	0.44	0.53	0.63	0.72	0.81	0.91	1.00	1.24	1.44	1.65	1.84	2.02
GWP - biogenic	0.22	0.32	0.41	0.51	0.60	0.70	0.80	0.90	1.00	1.28	1.50	1.58	1.78	1.98
GWP - luluc	0.24	0.34	0.42	0.52	0.61	0.71	0.81	0.90	1.00	1.27	1.49	1.61	1.81	2.00
ODP	0.24	0.34	0.42	0.52	0.61	0.71	0.81	0.90	1.00	1.27	1.49	1.61	1.81	2.00
AP	0.33	0.41	0.49	0.57	0.66	0.74	0.83	0.92	1.00	1.24	1.42	1.68	1.85	2.02
EP - freshwater	0.24	0.34	0.43	0.52	0.61	0.71	0.81	0.90	1.00	1.27	1.48	1.63	1.82	2.01
EP - marine	0.28	0.37	0.45	0.54	0.63	0.73	0.82	0.91	1.00	1.25	1.45	1.65	1.84	2.02
EP - terrestrial	0.29	0.38	0.46	0.55	0.64	0.73	0.82	0.91	1.00	1.25	1.44	1.65	1.84	2.02
POCP	0.27	0.36	0.44	0.53	0.62	0.72	0.81	0.91	1.00	1.26	1.46	1.64	1.83	2.01
ADPF	0.26	0.35	0.44	0.52	0.62	0.72	0.81	0.91	1.00	1.26	1.46	1.64	1.84	2.02
ADPE	0.24	0.34	0.42	0.52	0.61	0.71	0.81	0.90	1.00	1.27	1.48	1.62	1.81	2.00
WDP	0.26	0.36	0.44	0.53	0.62	0.72	0.81	0.91	1.00	1.26	1.47	1.63	1.83	2.02

Module C1-C4	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm	80 mm	90 mm	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm
GWP - total	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.93	1.00	1.23	1.43	1.64	1.86	2.03
GWP - fossil	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.93	1.00	1.23	1.43	1.64	1.86	2.04
GWP - biogenic	0.28	0.37	0.45	0.55	0.64	0.71	0.81	0.93	1.00	1.23	1.43	1.64	1.86	2.04
GWP - luluc	0.32	0.40	0.48	0.57	0.66	0.72	0.82	0.93	1.00	1.22	1.41	1.69	1.90	2.07
ODP	0.30	0.39	0.47	0.56	0.65	0.71	0.82	0.93	1.00	1.22	1.42	1.67	1.88	2.05
AP	0.27	0.36	0.45	0.54	0.63	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.85	2.03
EP - freshwater	0.36	0.44	0.51	0.60	0.68	0.74	0.83	0.93	1.00	1.20	1.38	1.74	1.94	2.10
EP - marine	0.27	0.36	0.45	0.54	0.63	0.70	0.81	0.92	1.00	1.23	1.44	1.63	1.85	2.03
EP - terrestrial	0.27	0.36	0.45	0.54	0.63	0.70	0.81	0.92	1.00	1.23	1.44	1.63	1.85	2.03
POCP	0.27	0.36	0.45	0.54	0.63	0.70	0.81	0.92	1.00	1.23	1.44	1.63	1.85	2.03
ADPF	0.29	0.38	0.46	0.56	0.64	0.71	0.81	0.93	1.00	1.22	1.42	1.66	1.87	2.05
ADPE	0.30	0.39	0.47	0.56	0.65	0.71	0.82	0.93	1.00	1.22	1.42	1.66	1.88	2.05
WDP	0.29	0.38	0.46	0.55	0.64	0.71	0.81	0.93	1.00	1.23	1.43	1.65	1.87	2.04

Module D	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm	80 mm	90 mm	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm
GWP - total	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
GWP - fossil	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
GWP - biogenic	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
GWP - luluc	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
ODP	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
AP	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
EP - freshwater	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
EP - marine	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
EP - terrestrial	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
POCP	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
ADPF	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.04
ADPE	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03
WDP	0.28	0.37	0.45	0.55	0.64	0.70	0.81	0.92	1.00	1.23	1.43	1.63	1.86	2.03

This EPD was created using a software tool.

References

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

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

GaBi ts

thinkstep AG: Leinfelden-Echterdingen GaBi Software- System and Database for Life Cycle Engineering 1992- 2019

IBU 2021

EPD programme of Institut Bauen und Umwelte.V., Version 2.0, Berlin: Institut Bauen und Umwelte.V., 2021. www.ibu-epd.com

ISO 14025

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

LCA-tool

Kingspan LCA tool, version 1.2. IBU-KSI-202001-LT1-EN. Developed by Sphera Solutions GmbH (formely ThinkstepGmbH)

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 12th of July 2024, 241 substances listed.



Publisher

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

+49 (0)30 3087748- 0
info@ibu-epd.com
www.ibu-epd.com



Programme holder

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

+49 (0)30 3087748- 0
info@ibu-epd.com
www.ibu-epd.com



Author of the Life Cycle Assessment

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

+31 (0) 543 543 210
info@kingspaninsulation.nl
www.kingspan.com



Owner of the Declaration

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

+31 (0) 543 543 210
info@kingspaninsulation.nl
www.kingspan.com