

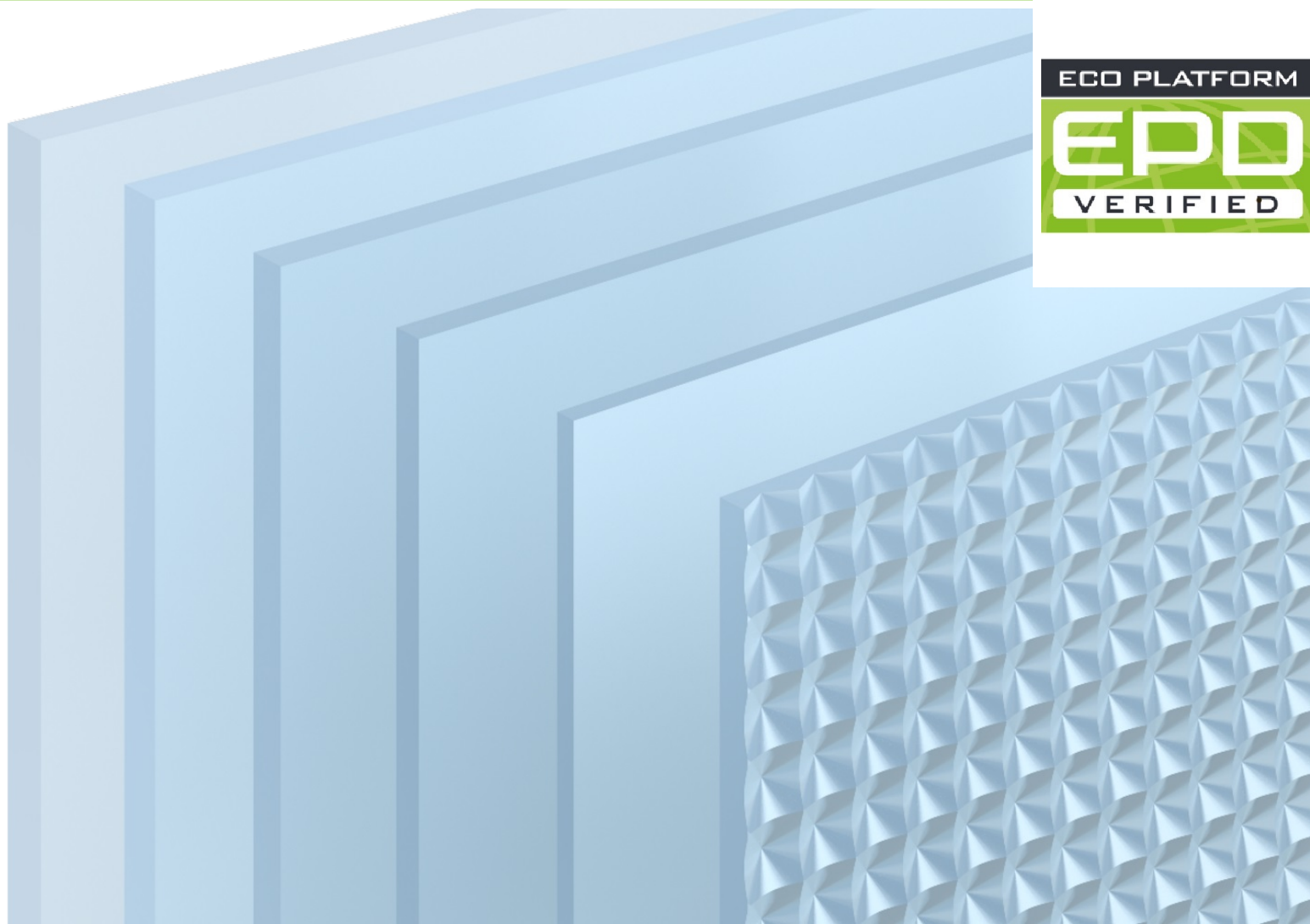
ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Kingspan Light + Air
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-KIN-20240538-CBI2-DE
Issue date	27/06/2025
Valid to	26/06/2030

Kilon LEC Solid Polycarbonate Sheet Kingspan Light + Air

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General Information

Kingspan Light + Air

Programme holder

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

Declaration number

EPD-KIN-20240538-CBI2-DE

This declaration is based on the product category rules:

Boards and panels made of plastic (interior and exterior applications), 01/06/2023
(PCR checked and approved by the SVR)

Issue date

27/06/2025

Valid to

26/06/2030



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



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

Kilon LEC Solid Polycarbonate Sheet

Owner of the declaration

Kingspan Light + Air
Carrickmacross Rd Corgarry
A82 E897 Kingscourt, Co. Cavan
Ireland

Declared product / declared unit

This environmental product declaration is for 1 kg of Kilon LEC solid polycarbonate sheets made up of extruded polycarbonate resins that contain 50% post-consumer recycled polycarbonate big water bottles.

Scope:

Kilon LEC solid polycarbonate sheets are available in different thicknesses. The whole range is manufactured in Kingspan Light + Air factory in Kingscourt, Ireland. This product declaration is a representative EPD covering all thicknesses of Kilon LEC solid polycarbonate sheets. 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		
☐	internally	☒ externally



Mrs Kim Allbury,
(Independent verifier)

Product

Product description/Product definition

Kilon LEC solid polycarbonate is a glazing material. Kilon LEC solid polycarbonate is easy to process and can be thermoformed or cold-curved on site for use in all kinds of glazing applications. Its high impact resistance also makes it a suitable product for screening, visors, guards, safety glazing and specialist roofing products.

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 16240:2013*, Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings and the CE-marking.

Application

The Kilon LEC solid polycarbonate sheets are suitable for use in horizontal surfaces, roof lights, vertical surfaces, and facades.

Technical Data

The light transmission, solar heat gain coefficient, U-Value, weight, and fire rating of Kilon LEC solid polycarbonate sheets have been measured and their chemical compatibility with different materials has been tested.

Constructional data

Name	Value	Unit
Thickness	Various	mm
Gross density	1200	kg/m ³
Light transmittance EN 410	Depends on the thickness	%
Total solar energy transmittance (G-value) EN 410	Depends on the thickness	%
Thermal transmittance (U-value)	Depends on thickness	W/(m ² K)
Dimensional tolerances EN 16153	Pass	
Weight	1.2	kg/m ²
Reaction to fire EN 13501-1	Depends on thickness	
Reaction to fire ASTM D635	CC1	
Linear thermal expansion ISO 11359-2	0.65	10-4/K

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to *EN 16240:2013*, Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings.

Base materials/Ancillary materials

Kilon LEC solid polycarbonate sheets are made up of 100 % polycarbonate resins that contain 50 % post-consumer recycled polycarbonate big water bottles.

This product contains substances listed in *the candidate list* (date: 20.09.2023) exceeding 0.1 percentage by mass: no

Reference service life

According to Federal Office for Building and Regional planning (*BBSR*), a reference service life of 30 years can be assumed for transparent sheets made of plastic (polycarbonate). The use stage (module B2) is declared in this EPD for 30 years of usage.

LCA: Calculation rules

Declared Unit

This declaration refers to the declared unit of 1 kg of Kilon LEC solid sheet. The sheets are produced in various thicknesses.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	kg
Gross density	1200	kg/m ³

This is a representative EPD covering all thicknesses of Kilon LEC solid sheets.

System boundary

The type of EPD is cradle-to-gate with options, module C1-C4 and module D. The additional modules are modules A4, A5 and B2.

Considered product stages:

- Production of pre-products, extraction of energy carriers, raw

material transportation, manufacture of product and packaging materials are declared in modules A1-A3.

- Modules A1-A3 also include the manufacturing and supply of energy. The production is done using certified green electricity (wind power). The share of certified electricity accounts for 100 % of the total electricity consumption (0.013 kg CO₂ eq./kWh).
- The scenario for the transport of the product to the construction site in the USA is declared in module A4.
- The treatment of packaging materials at installation is declared in module A5. The installation process varies on the use of the solid sheet and is therefore omitted from the study.
- The maintenance stage (cleaning) is included in module B2.
- The end-of-life scenarios include manual dismantling (C1) and transportation to waste processing (C2).
- Three end-of-life scenarios are declared:
- Scenario 1 (C3 & C4): Recycling of the board as plastic granulate.
- Scenario 2 (C3/1 & C4/1): Landfilling of the product.

- Scenario 3 (C3/2 & C4/2): Thermal treatment of the product with energy recovery.
- Benefits for electricity and thermal energy, which result from energy recovery in module A5 are declared in modules D, D/1, and D/2. In the same way, material benefits from recycling in module C3 are declared in module D.

Geographic Representativeness

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

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

Biogenic carbon is present in the packaging materials (wooden pallets and cardboard).

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.026	kg C

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

The following technical scenario information is required for the declared modules.

Transport to the building site (A4)

Module A4 considers 4 490 km by truck plus 6 112 km via ocean ship transport from the manufacturing plant in Ireland (Kingscourt) to the construction site in the USA.

Name	Value	Unit
Litres of fuel	0.002	l/100km
Transport distance	10602	km
Capacity utilisation (including empty runs)	61	%

Installation into the building (A5)

The installation is done manually and no energy is required. The packaging material treatment and disposal are also considered in module A5.

Name	Value	Unit
Output substances following waste treatment on site (packaging materials)	0.17	kg

Packaging material:
Cardboard: 0,05 kg/ DU
Wood pallets: 0,01 kg/ DU
Plastic film: 0,03 kg/ DU
Plastic foil: 0,03 kg/ DU
Desiccant bags: 0,05 kg/ DU

Maintenance (B2)

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 dataset: *LCA FE software - CUP 2024.1*.

Module B2 includes the cleaning of the board. Boards are located on the roofs of buildings and are cleaned once a year with water. Cleaning of 1 kg of panels is estimated to require 10 cl of water per cleaning.

Name	Value	Unit
Maintenance cycle	30	Number/RSL
Water consumption	0.003	m ³

According to BBSR, a reference service life of 30 years can be assumed for plastic sheets made of polycarbonate. The use stage (module B2) is declared in this EPD for 30 years of usage.

Reference service life

Name	Value	Unit
Life Span (according to BBSR)	30	a

End of life (C1-C4)

The end-of-life scenarios are as follows:

- C1 - The deconstruction of the product is assumed to be done manually (no environmental impact).
- C2 - The transport to waste processing is assumed to be 50 km.
- C3, C4 and D - The product is considered to be 100 % recycled as polycarbonate granulate.
- C3/1, C4/1 and D/1 - The product is considered to be 100 % landfilled
- C3/2, C4/2 and D/2 - 100 % Thermal treatment of the product with energy recovery

Name	Value	Unit
Collected separately waste type	1	kg
Recycling (Scenario 1)	1	kg
Landfilling (Scenario 2)	1	kg
Energy recovery (Scenario 3)	1	kg

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

Module D, D/1 and D/2 include the potential benefits in form of energy recovery of the incineration process A5 (incineration of packaging wastes). Additionally, D declares the materials benefits generated from the recycling of the product at its end of life (substituted plastic granulates) and D/2 the energy benefits from the incineration of the product.

LCA: Results

The following tables display the environmentally relevant results according to EN 15804+A2 (EF3.1) for 1 kg of Kilon LEC solid sheet.

Scenario 1 (C3, C4 and D): 100 % Recycling of the product.

Scenario 2 (C3/1, C4/1 and D/1): 100 % Landfilling of the product

Scenario 3 (C3/2, C4/2 and D/2): 100 % Thermal treatment of the product with energy recovery

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	X	X	MND	X	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg Kilon LEC solid sheet

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C3/2	C4	C4/1	C4/2	D	D/1	D/2
GWP-total	kg CO ₂ eq	2.44E+00	5.71E-01	3.64E-01	3.14E-03	0	4.44E-03	1.17E-01	0	2.77E+00	0	2.16E-02	0	-1.8E+00	-9.73E-02	-1.17E+00
GWP-fossil	kg CO ₂ eq	2.52E+00	5.71E-01	2.72E-01	1.81E-03	0	4.44E-03	1.16E-01	0	2.77E+00	0	2.15E-02	0	-1.79E+00	-9.73E-02	-1.17E+00
GWP-biogenic	kg CO ₂ eq	-7.82E-02	3.81E-05	9.18E-02	1.32E-03	0	3.35E-07	1.04E-03	0	8.22E-06	0	0	0	-1.23E-02	-2.18E-05	-2.9E-04
GWP-luluc	kg CO ₂ eq	2.56E-03	2.62E-04	7.54E-06	6.76E-07	0	2.53E-06	1.76E-05	0	5.59E-06	0	1E-05	0	-6.44E-04	-7.96E-06	-8.45E-05
ODP	kg CFC11 eq	1.5E-11	8.21E-14	1.19E-14	6.68E-15	0	6.67E-16	2.63E-12	0	7.62E-14	0	5.2E-14	0	-1.36E-11	-4.88E-13	-4.79E-12
AP	mol H ⁺ eq	4.42E-03	3.85E-03	4.71E-05	3.47E-06	0	5.3E-06	2.24E-04	0	3.77E-04	0	1.29E-04	0	-2.34E-03	-1.14E-04	-1.19E-03
EP-freshwater	kg P eq	8.16E-06	2.32E-06	7.71E-09	2.18E-06	0	2.3E-08	4.81E-07	0	1.54E-08	0	2.6E-05	0	-6.3E-06	-4.9E-08	-4.93E-07
EP-marine	kg N eq	1.51E-03	1.24E-03	1.03E-05	8.22E-06	0	2.21E-06	5.59E-05	0	7.55E-05	0	3.2E-05	0	-7.55E-04	-2.71E-05	-2.99E-04
EP-terrestrial	mol N eq	1.62E-02	1.36E-02	2.14E-04	1.05E-05	0	2.48E-05	5.86E-04	0	1.78E-03	0	3.51E-04	0	-8.23E-03	-2.94E-04	-3.27E-03
POCP	kg NMVOC eq	4.9E-03	3.34E-03	2.83E-05	2.46E-06	0	5.09E-06	1.48E-04	0	2.03E-04	0	9.84E-05	0	-2.69E-03	-8.07E-05	-9.09E-04
ADPE	kg Sb eq	4.37E-07	7.46E-08	8.83E-10	8.42E-11	0	5.96E-10	2.17E-08	0	3.1E-09	0	2.21E-09	0	-1.57E-07	-1.03E-08	-1.27E-07
ADPF	MJ	5.36E+01	7.52E+00	1.44E-01	1.94E-02	0	5.98E-02	2.43E+00	0	4.54E-01	0	3.28E-01	0	-4.01E+01	-1.6E+00	-1.88E+01
WDP	m ³ world eq deprived	1.36E-01	2.75E-02	2.23E-02	4.89E-04	0	2.7E-04	3.21E-02	0	2.34E-01	0	1.18E-03	0	-5.29E-02	-1.83E-02	-1.81E-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 kg Kilon LEC solid sheet

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C3/2	C4	C4/1	C4/2	D	D/1	D/2
PERE	MJ	2.27E+01	2.77E-01	1.06E+00	4.35E-03	0	2.65E-03	1.76E+00	0	5.31E-02	0	4.06E-02	0	-6.73E+00	-3.65E-01	-3.58E+00
PERM	MJ	1.05E+00	0	-1.05E+00	0	0	0	0	0	0	0	0	0	0	0	0
PERT	MJ	2.37E+01	2.77E-01	9.14E-03	4.35E-03	0	2.65E-03	1.76E+00	0	5.31E-02	0	4.06E-02	0	-6.73E+00	-3.65E-01	-3.58E+00
PENRE	MJ	3.66E+01	7.52E+00	4.78E+00	1.94E-02	0	5.98E-02	2.72E+01	0	1.28E+01	0	3.28E-01	0	-4.01E+01	-1.6E+00	-1.88E+01
PENRM	MJ	1.7E+01	0	-4.64E+00	0	0	0	-2.48E+01	0	-1.24E+01	0	0	0	0	0	0
PENRT	MJ	5.36E+01	7.52E+00	1.44E-01	1.94E-02	0	5.98E-02	2.43E+00	0	4.54E-01	0	3.28E-01	0	-4.01E+01	-1.6E+00	-1.88E+01
SM	kg	6.37E-01	0	0	0	0	0	0	0	0	0	0	0	4.3E-01	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FW	m ³	8.4E-03	8.95E-04	5.24E-04	1.45E-05	0	8.8E-06	1.35E-03	0	5.48E-03	0	4.23E-05	0	-6.21E-03	-5.59E-04	-5.5E-03
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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 kg Kilon LEC solid sheet

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C3/2	C4	C4/1	C4/2	D	D/1	D/2
HWD	kg	1.21E-07	1.02E-09	2.46E-11	9.4E-12	0	8.07E-12	3.52E-09	0	1.32E-10	0	8.09E-11	0	-1.59E-08	-7.62E-10	-7.79E-09
NHWD	kg	1.63E-01	6.82E-04	2.42E-02	3.12E-03	0	5.96E-06	2.01E-03	0	1.11E-02	0	9.95E-01	0	-2.11E-02	-5.24E-04	-5.94E-03
RWD	kg	9.05E-04	2.23E-05	2.47E-06	1.22E-06	0	1.8E-07	3.89E-04	0	1.75E-05	0	3.48E-06	0	-7.17E-04	-1.38E-04	-1.35E-03
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	5E-02	0	0	0	1E+00	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	6.21E-01	0	0	0	0	0	5.46E+00	0	0	0	0	0	0
EET	MJ	0	0	2.48E-01	0	0	0	0	0	5.22E+00	0	0	0	0	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 kg Kilon LEC solid sheet

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C3/2	C4	C4/1	C4/2	D	D/1	D/2
PM	Disease incidence	5.9E-08	7.45E-08	5.19E-10	4.13E-11	0	5.1E-11	1.87E-09	0	2.25E-09	0	1.47E-09	0	-2.11E-08	-1.06E-09	-1.14E-08
IR	kBq U235 eq	1.06E-01	1.88E-03	2.14E-04	1.04E-04	0	1.52E-05	6.41E-02	0	1.46E-03	0	3.35E-04	0	-7.37E-02	-1.14E-02	-1.12E-01
ETP-fw	CTUe	6.72E+01	5.86E+00	1.37E-01	7.43E-02	0	4.67E-02	7.05E-01	0	1.65E-01	0	1.45E+00	0	-6.12E+01	-3.15E-01	-3.32E+00
HTP-c	CTUh	1.15E-09	9.93E-11	3.67E-12	9.8E-12	0	7.97E-13	3.96E-11	0	1.43E-11	0	4.35E-12	0	-4.73E-10	-1.27E-11	-1.45E-10
HTP-nc	CTUh	2.6E-08	2.19E-09	3.17E-10	1.02E-09	0	1.82E-11	6.07E-10	0	8.8E-11	0	2.74E-10	0	-1.94E-08	-2.17E-10	-2.58E-09
SQP	SQP	9.94E+00	1.16E+00	1.41E-02	2.54E-03	0	1.16E-02	1.03E+00	0	7.08E-02	0	2.94E-02	0	-4.47E+00	-1.32E-01	-1.3E+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 “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.

This EPD was created using a software tool.

References

Standards

EN 410

Glass in building - Determination of luminous and solar characteristics of glazing.

ASTM D635

Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

ISO 11359-2

Plastics. Thermomechanical analysis (TMA). Determination of coefficient of linear thermal expansion and glass transition temperature.

EN 13501-1

Fire classification of construction products and building elements as required by the Construction Products Regulation (EU) No 305/2011.

ISO 14025

EN ISO 14025:2011, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

EN 15804

EN 15804:2012+A2:2019+AC:2021, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

EN 16153

Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings - Requirements and test methods.

EN 16240

EN 16240:2013, Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings — Requirements and test methods.

Other references:

BBSR

Federal Office for Building and Regional Planning

CPR

EU Construction Products Regulation 305/2011

IBU 2021

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V., Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021
www.ibu-epd.com

LCA FE software - CUP 2024.1

LCA for Expert Software System and Database for Life Cycle Engineering, 1992-2021, Sphera Solutions GmbH, Leinfelden-

Echterdingen, with acknowledgement of LBP University of Stuttgart, program version GaBi 10; database version 2024.1 (CUP 2024.1).

LCA FE documentation

LCA FE dataset documentation for the software system and databases, LBP, University of Stuttgart and Sphera Solutions GmbH, Leinfelden Echterdingen, 2021.
(<https://lcadatabase.sphera.com/>)

LCA Tool

Kingspan Light + Air LCA-Tool Version 2.0

PCR Part A

PCR - Part A: Calculation rules for the Life Cycle Assessment and Requirements on the Background Report, version 1.4, Institut Bauen und Umwelt e.V., www.bauumwelt.com, 2024

PCR Part B

Part B: Requirements on the EPD for Boards and panels made of plastic (exterior applications), 06/2023

REACH

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Environmental



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