EPD Hub

VISQUEEN

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Visqueen Radon R400 Membrane

British Polythene Limited t/a Visqueen

EPD HUB, HUB-3938

Published on 10.09.2025, last updated on 10.09.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.1, 5 Dec 2023 and JRC characterization factors EF 3.1.

One Click LCA Created with One Click LCA

REPLACE-BRANDING-IMAGE

GENERAL INFORMATION

MANUFACTURER

Manufacturer	British Polythene Limited t/a Visqueen
Address	Maerdy Industrial Estate, Rhymney, Wales, UK NP22 5PY
Contact details	enquiries@visqueen.com
Website	www.visqueen.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Cameron Yates
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Imane Uald Lamkaddam as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Visqueen Radon R400 Membrane
Additional labels	Visqueen Low Permeability Gas Membrane, Visqueen High Performance DPM, Visqueen RadoBlok Norway
Product reference	
Place(s) of raw material origin	EU
Place of production	Rhymney, Wales, United Kingdom
Place(s) of installation and use	United Kingdom and Ireland
Period for data	2024 calender year
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	
A1-A3 Specific data (%)	3.4

ENVIRONMENTAL DATA SUMMARY

Declared unit	1m2 of R400
Declared unit mass	0.381 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	9.6E-01
GWP-total, A1-A3 ($kgCO_2e$)	9.45E-01
Secondary material, inputs (%)	1.37
Secondary material, outputs (%)	24.7
Total energy use, A1-A3 (kWh)	3.59
Net freshwater use, A1-A3 (m^3)	0.01

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

For more than 50 years, the construction industry has placed its trust in Visqueen products and design services to safeguard a wide range of residential and commercial buildings against harmful ground-based gases, water ingress, damp and fire. Visqueen is at the forefront of innovation technologies, earning the trust and loyalty of industry professionals throughout the UK and Europe.

PRODUCT DESCRIPTION

Visqueen Radon R400 Membrane is a flexible 0.4mm thick thermoplastic film. The product is red in colour and supplied 4m x 20m in a multi-folded roll format. The membrane is manufactured using virgin polymer.

Further information can be found at:
www.visqueen.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	
Minerals	5	EU
Fossil materials	95	EU
Bio-based materials	0	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0.000156
Biogenic carbon content in packaging, kg C	0.004118

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1m2 of R400
Mass per declared unit	0.381 kg
Functional unit	
Reference service life	

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

The membrane consists mostly of LLDPE, LDPE with added pigments and additives. Materials that make up the product are delivered from external suppliers within EU. Raw materials (LLDPE, LDPE) are blended with coloured pigments and additives to achieve the desired properties, such as flexibility, strength, and barrier effectiveness. This mixture is then fed into an extruder, where it is melted, homogenized, and forced through a flat die to form a continuous thin sheet. The extruded sheet is then cooled and solidified before being trimmed and cut to the required dimensions. Finally, the finished membrane is rolled, inspected, and packaged for distribution and use in construction applications.

A market-based approach is used in modelling the electricity mix utilized in the factory.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

There is a 3% overlap that is considered in the calculations. The product is installed using double and single sided tapes however it is not accounted in the LCA calculations.

Packaging treatment is also considered based on Eurostat statistics.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.
Air, soil, and water impacts during the use phase have not been studied.

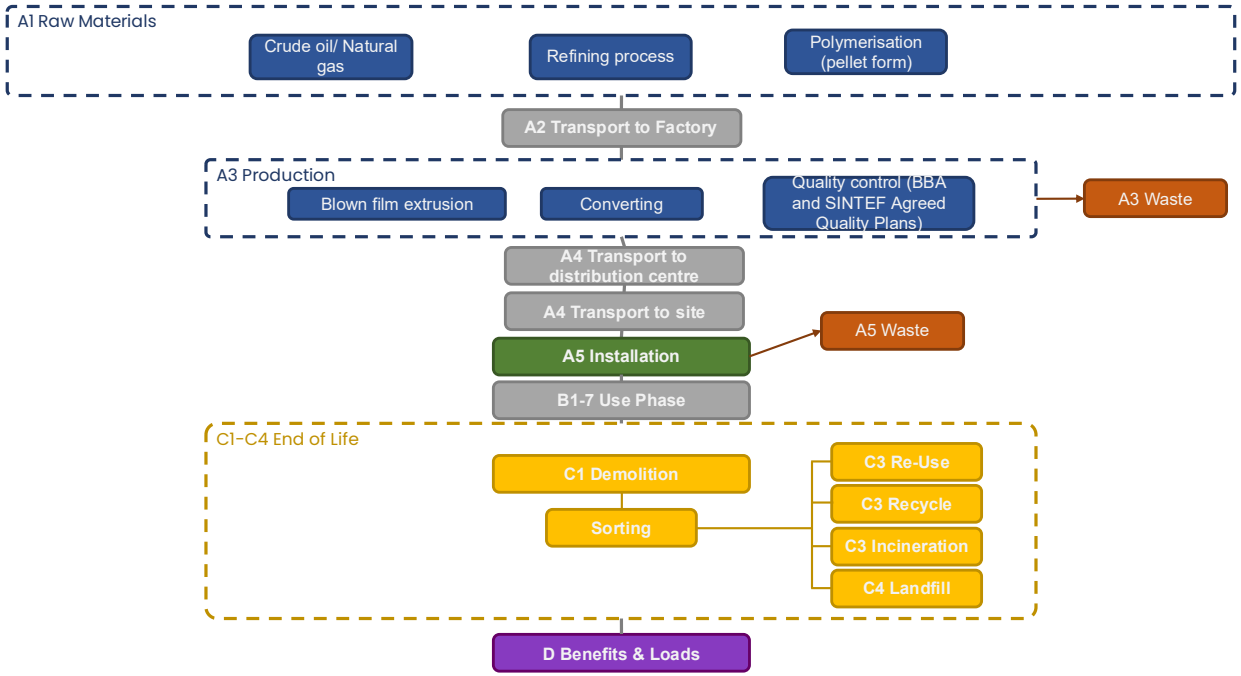
PRODUCT END OF LIFE (C1-C4, D)

The disassembly of the product is assumed to be done manually, so no energy use is included in the assessment. It is assumed that the damp proofing membrane is collected separately and transported to: 27% waste treatment facility for recycling -transportation distance to waste treatment plant is assumed to be 250 km and the transportation method is assumed to be lorry (C2). 40% waste treatment facility for municipal incineration -transportation

distance to waste treatment plant is assumed to be 150 km and the transportation method is assumed to be lorry (C2). 27% waste treatment facility for landfill -transportation distance to waste treatment plant is assumed to be 50 km and the transportation method is assumed to be lorry (C2).

The end-of -life scenario is structured based on statistics by Plastic Europe (2020). Module C3 accounts for energy and resource inputs for sorting and treating of materials for recycling. Landfilled materials are included in module C4. The material and energy recovery potential of the product and its packaging results in avoided virgin material production and allows for energy recovery from incineration that replaces electricity and heat from primary sources. Benefits and loads from incineration and recycling are included in Module D.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	Allocated by mass or volume
Packaging material	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable
Variation in GWP-fossil for A1-A3, %	

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology ‘allocation, Cut-off, EN 15804+A2‘.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	9.27E-01	1.69E-02	1.55E-03	9.45E-01	1.74E-02	5.04E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.19E-03	6.05E-01	1.32E-02	-4.71E-01
GWP – fossil	kg CO_2e	9.26E-01	1.69E-02	1.73E-02	9.60E-01	1.73E-02	3.08E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.19E-03	6.05E-01	1.32E-02	-4.76E-01
GWP – biogenic	kg CO_2e	5.75E-04	3.81E-06	-1.57E-02	-1.51E-02	3.93E-06	1.96E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.40E-06	-1.03E-05	-6.93E-06	5.63E-03
GWP – LULUC	kg CO_2e	5.18E-04	7.55E-06	1.64E-05	5.42E-04	7.76E-06	1.70E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.77E-06	1.02E-05	8.04E-07	-4.57E-04
Ozone depletion pot.	kg CFC_{-11}e	4.13E-08	2.49E-10	5.74E-10	4.21E-08	2.56E-10	1.28E-09	MND	MND	MND	MND	MND	MND	MND	0.00E+00	9.14E-11	1.22E-10	3.18E-11	-1.06E-08
Acidification potential	mol H^+e	2.93E-03	5.76E-05	3.64E-05	3.03E-03	5.91E-05	9.44E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.11E-05	9.93E-05	8.75E-06	-2.23E-03
EP-freshwater[2)]	kg Pe	1.74E-04	1.31E-06	2.01E-06	1.77E-04	1.35E-06	5.44E-06	MND	MND	MND	MND	MND	MND	MND	0.00E+00	4.82E-07	2.36E-06	1.30E-07	-1.87E-04
EP-marine	kg Ne	5.64E-04	1.89E-05	1.24E-05	5.96E-04	1.94E-05	2.03E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.93E-06	5.21E-05	2.91E-05	-3.56E-04
EP-terrestrial	mol Ne	5.93E-03	2.06E-04	1.21E-04	6.26E-03	2.11E-04	2.02E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.55E-05	4.62E-04	3.57E-05	-3.64E-03
POCP ("smog")[3)]	kg NMVOCe	4.80E-03	8.48E-05	5.48E-05	4.94E-03	8.72E-05	1.53E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.11E-05	1.18E-04	1.55E-05	-1.83E-03
ADP-minerals & metals[4)]	kg Sbe	8.49E-06	4.71E-08	4.07E-08	8.58E-06	4.84E-08	2.60E-07	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.73E-08	7.12E-08	2.77E-09	-2.12E-06
ADP-fossil resources	MJ	2.81E+01	2.45E-01	2.72E-01	2.87E+01	2.52E-01	8.72E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.98E-02	1.04E-01	2.73E-02	-1.08E+01
Water use[5)]	m^3e depr.	5.36E-01	1.21E-03	3.35E-03	5.41E-01	1.24E-03	1.64E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	4.44E-04	1.58E-02	1.34E-04	-1.41E-01

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	2.44E-08	1.69E-09	5.47E-10	2.66E-08	1.74E-09	8.83E-10	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.20E-10	7.26E-10	1.98E-10	-1.80E-08
Ionizing radiation[6)]	kBq U235e	6.60E-02	2.13E-04	1.47E-03	6.77E-02	2.19E-04	2.05E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.82E-05	4.70E-04	2.72E-05	-8.02E-02
Ecotoxicity (freshwater)	CTUe	2.72E+00	3.47E-02	3.43E-02	2.79E+00	3.56E-02	8.65E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.27E-02	1.63E-01	4.07E-02	-2.21E+00
Human toxicity, cancer	CTUh	2.30E-10	2.79E-12	1.76E-11	2.50E-10	2.86E-12	7.79E-12	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.02E-12	2.45E-11	6.44E-13	-7.38E-11
Human tox. non-cancer	CTUh	8.05E-09	1.59E-10	8.74E-11	8.30E-09	1.63E-10	2.64E-10	MND	MND	MND	MND	MND	MND	MND	0.00E+00	5.82E-11	9.62E-10	1.27E-10	-3.56E-09
SQP[7)]	-	2.64E+00	2.47E-01	1.25E+00	4.14E+00	2.53E-01	1.36E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	9.04E-02	1.04E-01	6.38E-02	-1.89E+00

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	7.46E-01	3.36E-03	9.63E-02	8.45E-01	3.45E-03	-9.79E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.23E-03	7.64E-03	4.28E-04	-8.67E-01
Renew. PER as material	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-03
Total use of renew. PER	MJ	7.46E-01	3.36E-03	9.63E-02	8.45E-01	3.45E-03	-9.79E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.23E-03	7.64E-03	4.28E-04	-8.60E-01
Non-re. PER as energy	MJ	1.21E+01	2.45E-01	-2.61E-01	1.21E+01	2.52E-01	3.37E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.98E-02	-1.13E+01	-4.28E+00	-1.08E+01
Non-re. PER as material	MJ	1.60E+01	0.00E+00	-9.08E-01	1.51E+01	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	-1.10E+01	-4.08E+00	4.01E+00
Total use of non-re. PER	MJ	2.81E+01	2.45E-01	-1.17E+00	2.72E+01	2.52E-01	3.37E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.98E-02	-2.24E+01	-8.37E+00	-6.79E+00
Secondary materials	kg	5.23E-03	1.04E-04	6.16E-04	5.96E-03	1.07E-04	1.86E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.82E-05	4.01E-04	9.89E-06	9.88E-02
Renew. secondary fuels	MJ	4.63E-05	1.32E-06	4.49E-03	4.53E-03	1.36E-06	1.36E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	4.86E-07	2.94E-06	1.85E-07	-1.00E-05
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m^3	1.31E-02	3.62E-05	7.74E-05	1.33E-02	3.72E-05	3.88E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.33E-05	1.40E-04	-4.07E-04	-4.57E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	3.72E-02	4.15E-04	6.05E-04	3.82E-02	4.26E-04	1.20E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.52E-04	5.80E-03	4.81E-05	-3.00E-02
Non-hazardous waste	kg	2.63E+01	7.68E-03	1.63E-02	2.63E+01	7.89E-03	8.10E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.82E-03	2.32E-01	5.46E-01	-1.68E+00
Radioactive waste	kg	1.68E-05	5.22E-08	3.39E-07	1.72E-05	5.37E-08	5.20E-07	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.91E-08	1.20E-07	6.65E-09	-2.05E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	2.29E-02	2.29E-02	0.00E+00	3.76E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	9.40E-02	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	3.11E+00	0.00E+00	0.00E+00
Exported energy – Electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00
Exported energy –	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	1.80E+00	0.00E+00	0.00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	9.15E-01	1.68E-02	1.78E-02	9.49E-01	1.72E-02	3.06E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.16E-03	6.05E-01	1.26E-02	-4.68E-01
Ozone depletion Pot.	kg CFC_{-11}e	3.39E-08	1.99E-10	4.67E-10	3.45E-08	2.04E-10	1.05E-09	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.29E-11	1.02E-10	2.54E-11	-8.71E-09
Acidification	kg SO_2e	2.42E-03	4.40E-05	2.80E-05	2.49E-03	4.52E-05	7.75E-05	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.61E-05	7.12E-05	6.50E-06	-1.88E-03
Eutrophication	kg PO_4^3e	4.15E-03	1.07E-05	1.18E-04	4.28E-03	1.10E-05	1.29E-04	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.93E-06	2.21E-05	4.25E-06	-4.68E-03
POCP (“smog”)	kg C_2H_4e	2.90E-04	3.92E-06	4.21E-06	2.98E-04	4.02E-06	9.22E-06	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.44E-06	5.23E-06	2.44E-06	-1.55E-04
ADP-elements	kg Sbe	8.34E-06	4.59E-08	3.93E-08	8.42E-06	4.72E-08	2.55E-07	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.68E-08	6.72E-08	2.69E-09	-2.09E-06
ADP-fossil	MJ	2.70E+01	2.42E-01	2.51E-01	2.75E+01	2.48E-01	8.36E-01	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.86E-02	9.59E-02	2.69E-02	-9.40E+00

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	9.26E-01	1.69E-02	1.73E-02	9.61E-01	1.73E-02	3.08E-02	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.19E-03	6.05E-01	1.32E-02	-4.77E-01

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH4 fossil, CH4 biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO2 is set to zero.

SCENARIO DOCUMENTATION

ANNEX 1 – SCALING TABLE

TABLE 1

Product Name	Mass	A1-A3, EN 15804+A1	A1-A3, EN 15804+A2		
		GWP	GWP_{-total}	$GWP_{-fossil}$	$GWP_{-biogenic}$
Visqueen Radon R400 Membrane	0.381 kg	0.949	0.945	0.96	-0,0151
Visqueen Low Permeability Gas Membrane, Visqueen High Performance DPM Visqueen RadonBlok Norway	0.476 kg	1.186	1.180	1.199	-0.018

THIRD-PARTY VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online
This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Imane Uald Lamkaddam as an authorized verifier for EPD Hub Limited
10.09.2025