ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration VELUX Group

Publisher Institut Bauen und Umwelt e.V. (IBU)
Programme holder Institut Bauen und Umwelt e.V. (IBU)

Declaration number EPD-VEL-20230511-CBJ2-EN

Issue date 11.03.2024 Valid to 10.03.2029

VELUX wooden roof windows with glazing configuration 62 and 62D

VELUX Group



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General Information

VELUX Group	VELUX wooden roof windows with glazing configuration 62 and 62D					
Programme holder	Owner of the declaration					
IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany	VELUX Group Ådalsvej 99 2970 Hørsholm Denmark					
Declaration number	Declared product / declared unit					
EPD-VEL-20230511-CBJ2-EN	The declared unit is a wooden roof window of 1 $\rm m^2$ with the double glazing configuration 62D and triple glazing configuration 62. The declared unit is based on the size 1.34 m x 1.40 m (UK08), which is the closest available size to the standard size 1.23 m x 1.48 m (DS/EN 17213:2020).					
This declaration is based on the product category rules:	Scope:					
Windows and doors , 01.08.2021 (PCR checked and approved by the SVR)	The EPD is a representative EPD covering VELUX wooden roof windows as specified in more detail in the product description. The products are manufactured by the VELUX Group at production sites in different locations in Europe for sale throughout Europe. The windows' production					
Issue date 11.03.2024	takes place in Poland, Denmark, France and Germany. 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.					
Valid to 10.03.2029	The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as <i>EN 15804</i> .					
	Verification					
	The standard EN 15804 serves as the core PCR					
	Independent verification of the declaration and data according to ISO 14025:2011					
	internally X externally					
Nam Peter	<u> </u>					
DiplIng. Hans Peters (Chairman of Institut Bauen und Umwelt e.V.)						
* Pamol	line					
Florian Pronold (Managing Director Institut Bauen und Umwelt e.V.)	DrIng. Nikolay Minkov, (Independent verifier)					



Product

Product description/Product definition

The VELUX wooden roof windows are skylight window products for sale in the European market. The product family covers a range of product varieties as specified in the table below. All windows have a wooden frame/sash. Some windows can be opened (venting), while others cannot be opened (fixed). In addition, the windows consist of 4 different hinge-functionalities (pivot-hung, top-hung, side-hung, bottom-hung). The handles and handlebars are made of aluminium, while the hinges are made of steel (galvanised, stainless). Some of the window varieties can be used in conjunction with electric or solar window operators for automatic opening and closing, while other windows are opened and closed manually. The calculations are based on the representative window type named GPL. In the LCA, the GPL was assessed to be a conservative choice for a representative window type.

The glass panes are with double and triple glazing (2-layer and 3-layer glazing unit) and the glass configurations 62 and 62 D are covered by the EPD. The glass panes have cavities filled with Argon or Krypton gas. The EPD is based on the glazing unit configuration 62 (assessed to be a conservative choice over 62 D).

Only the window modules are included, which means that any applied window operators, installation products, accessories, etc. are not part of the EPD. These are available as separate EPDs, that can be used in combination with this EPD.

Variant	Wind	ow type	Glazing options ¹	Description				
GGL	13	GGL -K0	62	White painted or clear lacquered pivot-hinged window with ventilation flap and integrated handlebar along the top sash.				
GGL Electric	A T	GGL -K021	6262D	White painted or clear lacquered GGL window with an electrical window opener, main operated.				
GGL Solar	A "	GGL -K030	62	White painted or clear lacquered GGL window with an electrical window opener, solar powered.				
GIL		GIL -K0	62	White painted or clear lacquered fixed window without opening mechanism or ventilation flap.				
VFE		VFE -K0	62	White painted or clear lacquered bottom- hinged window for vertical extension with han- dle on top sash				

¹ 2-layer glazing options: 62 D, 3-layer glazing options: 62 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 14351-1:2006+A2:2016*, Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets. For the application and use, the respective national provisions apply.

Application

VELUX wooden roof windows are used in renovation and new build. Either installed as a single window or in a combination of multiple windows.

Technical Data

The Declaration of Performance including relevant technical specifications and test methods/test standards can be downloaded from the website www.velux.com/ce

The performance values are specific for each standard wooden roof window variant covered by the EPD. The declared values in the table relate to the reference product including the variant GGL with triple-glazed configuration 62 (GGL --62). For other

covered product variants, specific values can be selected at the bottom of the above-mentioned download page.

Constructional data

Name	Value	Unit
Reaction to fire	C-s1,d2	class
Air permeability acc. EN 12207	4	class
Resistance to wind load, (for window width >1140 mm or height > 1398 mm no performance is determined)	C3	class
Resistance to snow loads	8 (toughened) - 11 - 3 (heat strengthened) - 11 - 6,8 (33.2) (laminated float heat strengthened)	mm
Water tightness acc. EN 12208 unprotected / protected	E900	class
Impact resistance (for window width <550 mm or height <778 mm no performance is determined)	3	class
Acoustic performance	42 (-2; -5)	-
Load-bearing capacity of safety devices	passed	-
Thermal transmittance, 90 degree installation acc. to EN 10077-1/2	0.92	W/(m ² K)
Solar factor	0.47	-
Light transmittance	0.68	-

Product performance data in accordance with *DS/EN 14351-1:2006+A2:2016*, Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets.

Base materials/Ancillary materials

The main components of the standard wooden roof window are the glazing unit (made of mainly laminated and tempered glass), wooden frames/sashes (made of wood), hinges (made of steel) and handles/handlebars (made of aluminium). The packaging of the products consists of mostly cardboard along with paper inserts and galvanised steel.

Name	Value	Unit
Glazing unit (3-layer)	60	%
Wooden frame/sash	14	%
Steel components (galvanised and stainless)	13	%
Other components (including packaging)	13	%
Recycled content of aluminium	30	%
Recycled content of steel	10	%
Recycled content of glass	12	%

The wooden components (sashes, frames) are produced internally in VELUX facilities, located in Hungary, Poland, and France. VELUX receives sawn pine wood (dried) and processes it (sawing, cutting etc.) into lamellas of different quality. The lamellas are then glued together (lamination) and processed into profiles (cutting them into the correct size, cladding, drilling etc.). For the glazing units, VELUX receives the glazing unit components from suppliers and produces the final glazing units in sites located in Hungary, Denmark, France, and Germany. After their production, the glazing units join the



window assembly process. Finally, the frames/sashes, glazing unit, and the rest of the components (delivered by suppliers) are transported to VELUX assembly sites in Poland, Denmark, France and Germany, where they are assembled into the final window product.

This product/article/at least one partial article contains substances listed in *the candidate list (date: 23.08.2023)* exceeding 0.1 percentage by mass: **NO**.

Reference service life

No reference service life (RSL) is defined for the roof windows because the use stage modules are not included in the EPD.

LCA: Calculation rules

Declared Unit

Multiple product dimensions are represented by this EPD as specified in the product description. The declared unit is 1 m² wooden roof window calculated based on the size 1.34 m x 1.40 m (UK08), which is the closest available size to the reference window size (1.23 m x 1.48 m based on EN 14351-1) with double (configuration 62 D) and triple (configuration 62) glazed window panes. The GPL variant has the largest weight per m2 in the 2-layer glazing product group. Since the frame/sash construction is alike across all variants in the product group, the parts that set the variants apart are primarily the window-operation components, such as hinges, handles and ventilation flaps. These components are to a high degree metal-based, and the worst-case product can thus be identified by the weight of products with similar size and glazing unit. The heavier the product, the larger the content of metal. Therefore, the GPL variant can be considered more representative as worst-case scenario for the whole roof windows group.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	m ²
Grammage	55.49	kg/m ²
Layer thickness (glazing unit)	0.0377	m

Data quality and a sensitivity analysis show that the results are robust with regard to data quality and appropriateness. There is low variability of production processes and product variations have a limited influence on the results.

System boundary

The type of the EPD is "cradle to gate - with options" including the modules C1-C4 and D. The following life cycle phases were considered:

Product stage:

- A1 Raw material supply: extraction and processing, production of the pre-products (e.g. laminated glass, sawn pine wood, metal/plastic components, sealants etc.) and sales packaging components (e.g., cardboard).
- A2 Transport: Transport of pre-products and packaging components to the processing or assembly sites, as well as internal transportation of components between sites.

 A3 - Manufacturing: The wooden frames/sashes and glazing units are produced internally at VELUX production sites. Subsequently, the final production and assembly of the windows takes place, which involves activities such as shortening of profiles, drilling of holes, clamping and glueing, mounting of gaskets, brackets, panes etc.

End of life stage:

- C1 De-construction/demolition: deconstruction of the window with the use of an electric screwdriver and manual work.
- C2 Transport: transport of window materials to Material Recovery Facilities (MRF) and then to incineration, landfill or recycling facilities.
- C3 Waste processing: sorting of waste, recycling (metal and glass waste), incineration (plastic and wood waste) and landfill (metal, glass, wood and plastic waste).
- · C4 Disposal: disposal of all materials

Benefits and loads beyond the system boundaries:

 D - Reuse, recovery and recycling potential: benefits from plastic and wood waste incineration processes and material recycling of metal and glass.

For the environmental impact, the use of green electricity was calculated taking into account the residual electricity mix for the remaining electricity. The proportion of the electricity demand covered by green electricity in the total electricity demand is 79.23 %.

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. Average secondary datasets were retrieved from the Managed LCA Content (v2021.2) and Ecoinvent (v3.8) databases.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

8.02 kg of wood is used in window's frames/sashes and 0.03 kg of paper inlet is used per declared unit. For the packaging, 3.09 kg of cardboard and 0.01 kg of paper insert are used per declared unit.

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	3.64	kg C
Biogenic carbon content in accompanying packaging	2.5	kg C

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

The construction process stage and the use stage modules are



not declared. However, the quantity of packaging generated in module A5 is declared as scenario information.

Scenario information for packaging generated in module A5

Name	Value	Unit
Cardboard packaging for waste treatment	3.09	kg
Paper packaging for waste treatment	0.01	kg
Steel packaging for waste treatment (galvanised)	0.0032	kg

End of life (C1-C4)

Name	Value	Unit
Collected as mixed construction waste	52.39	kg
Recycling	18.35	kg
Energy recovery	10.73	kg
Landfilling	23.26	kg
Omitted to atmosphere (Krypton gas in glazing unit)	0.055	kg

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

Name	Value	Unit
Wood incinerated	95	%
Plastic incinerated	95	%
Paper incinerated	95	%
Metal recycled	95	%
Glass recycled	30	%



LCA: Results

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

Pr	oduct sta	age	_	ruction s stage		Ose stage End of the 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	А3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
X	Х	Х	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	Х	Х	Х	Х	Х

RESULTS OF THE LCA - EI	NVIRONME	NTAL IMPA	CT accordii	ng to EN 15	804+A2: 1 i	m2 VELUX	standard w	ooden roof	window
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	1.08E+02	4.73E-01	2.57E+01	1.97E-03	3.13E+00	1.87E+01	1.91E+00	-3.71E+01
GWP-fossil	kg CO ₂ eq	1.36E+02	4.7E-01	1.51E+01	1.97E-03	3.07E+00	5.98E+00	3.78E-01	-3.7E+01
GWP-biogenic	kg CO ₂ eq	-2.81E+01	-5.37E-04	1.06E+01	1.1E-06	3.3E-02	1.27E+01	1.53E+00	-5.17E-02
GWP-luluc	kg CO ₂ eq	8.95E-02	3.76E-03	2.63E-02	3.38E-07	2.54E-02	6.27E-04	1.02E-03	-1.13E-02
ODP	kg CFC11 eq	1.17E-06	9.18E-17	1.45E-09	2.22E-17	6.12E-16	-9.08E-09	1.4E-15	-5.78E-14
AP	mol H ⁺ eq	6.13E-01	7.16E-04	4.3E-02	3.18E-06	1.87E-02	5.35E-03	2.61E-03	-1.38E-01
EP-freshwater	kg P eq	4.81E-03	1.37E-06	1.44E-04	7.92E-10	9.21E-06	-2.09E-05	3.55E-06	-1.97E-05
EP-marine	kg N eq	1.29E-01	2.41E-04	1.7E-02	8.43E-07	9.12E-03	2.31E-03	7.05E-04	-2.99E-02
EP-terrestrial	mol N eq	1.46E+00	2.79E-03	1.75E-01	9.03E-06	1.01E-01	2.86E-02	7.61E-03	-3.31E-01
POCP	kg NMVOC eq	3.48E-01	6.56E-04	4.01E-02	2.39E-06	1.69E-02	6.08E-03	2.35E-03	-7.88E-02
ADPE	kg Sb eq	2.13E-03	4.11E-08	1.4E-05	2.44E-10	2.75E-07	-1.36E-07	3.45E-08	-7.28E-06
ADPF	MJ	1.85E+03	6.24E+00	2.26E+02	4.08E-02	4.13E+01	5.36E+00	5.03E+00	-4.49E+02
WDP	m ³ world eq deprived	9.32E+00	4.29E-03	6.95E-01	1.58E-04	2.88E-02	2.07E+00	3.93E-02	-2.05E+00

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 m2 VELUX standard wooden roof window

Parameter	Unit	A 1	A2	A3	C1	C2	C3	C4	D
PERE	MJ	5.6E+02	3.53E-01	4.3E+02	4.21E-03	2.38E+00	1.02E+00	6.43E-01	-7.58E+01
PERM	MJ	8.34E-02	0	0	0	0	0	0	0
PERT	MJ	5.6E+02	3.53E-01	4.3E+02	4.21E-03	2.38E+00	1.02E+00	6.43E-01	-7.58E+01
PENRE	MJ	1.72E+03	6.26E+00	2.27E+02	4.09E-02	4.15E+01	1.02E+02	5.04E+00	-4.5E+02
PENRM	MJ	1.32E+02	0	-5.09E-01	0	0	-9.62E+01	0	0
PENRT	MJ	1.85E+03	6.26E+00	2.26E+02	4.09E-02	4.15E+01	5.36E+00	5.04E+00	-4.5E+02
SM	kg	3.82E+00	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 ³	5.73E-01	4.05E-04	6.7E-02	9.2E-06	2.72E-03	4.89E-02	1.19E-03	-1.81E-01

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources; penergy resources used as raw materials; penergy resources; penergy resources used as raw materials; penergy resources; pe

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m2 VELUX standard wooden roof window

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D	
HWD	kg	3.25E-03	3.25E-10	1.26E-06	4.91E-12	2.18E-09	1.08E-09	5.75E-10	-4.54E-08	
NHWD	kg	8.49E+00	9.76E-04	3.47E-01	7.68E-06	6.5E-03	9.62E-01	2.27E+01	-3.39E+00	
RWD	kg	4.38E-02	1.13E-05	1.09E-02	6.61E-06	7.52E-05	2.6E-04	5.34E-05	-1.71E-02	
CRU	kg	0	0	0	0	0	0	0	0	
MFR	kg	1.77E-02	0	1.75E+01	0	0	1.84E+01	0	0	
MER	kg	0	0	0	0	0	1.04E+01	0	0	
EEE	MJ	3.51E-02	0	0	0	0	3.28E+01	0	0	
EET	MJ	5.13E-02	0	0	0	0	5.98E+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 VELUX standard wooden roof window

Parameter	Unit	A 1	A2	A3	C1	C2	C3	C4	D
РМ	Disease incidence	9.23E-06	8.27E-09	4.2E-07	2.9E-11	8.08E-08	3.22E-08	3.18E-08	-1.31E-06
IR	kBq U235 eq	8.87E+00	1.65E-03	1.51E+00	9.66E-04	1.1E-02	2.79E-02	5.86E-03	-3.2E+00
ETP-fw	CTUe	2.26E+03	4.63E+00	6.43E+01	1.25E-02	3.07E+01	2.55E+00	3.17E+00	-2.12E+02
HTP-c	CTUh	6.54E-07	9.34E-11	9.35E-09	2.09E-13	6.2E-10	1.32E-10	4E-10	-2.87E-08
HTP-nc	CTUh	2.12E-06	4.84E-09	2.19E-07	1.16E-11	3.8E-08	9.02E-09	4.45E-08	-2.96E-07
SQP	SQP	5.2E+03	2.11E+00	3.76E+02	3.39E-03	1.42E+01	2.29E-01	9.42E-01	-2.25E+01

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.

The results show that module A1 has the highest impact across all environmental impact indicators (except GWP – biogenic). Module A3 has the second highest impact in most impact indicators due to the energy consumption and the use of residual electricity grid mix. All main components in the windows contribute significantly to some of the environmental indicators, except for wood, which is only significant for the GWP-luluc and WDP indicators. The glass in the glazing units has the highest contribution in most impact categories among all material types. The galvanized steel components contribute significantly to the results due to their high weight contribution to the product. The aluminium components are also significant for the WDP indicator, although the weight of the aluminium components is notably lower in comparison with the galvanized steel components. This is most likely due to the relatively high energy and water consumption in the production of aluminium. It is noted that the production activities at VELUX contribute significantly to the GWP-fossil and ADPF impact indicators therefore, the actual impact contribution of the final wooden components is higher than the impact of upstream processed wood production.

References

IBU PCR Part A

IBU PCR Part A: Institut Bauen und Umwelt e.V., Product Category Rules for Building-Related Products and Services. Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, version 1.3.

IBU PCR Part B

IBU PCR Part B: Institut Bauen und Umwelt e.V., Requirements on the EPD for Windows and doors, version 1.4: 2021.

IBU 2021

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.

EN 12207

EN 12207:2016 Windows and doors - Air permeability - Classification

EN 12208

EN 12208:2000 Windows and doors. Watertightness.Classification is classified in these ICS categories: 91.060.50Doors and windows

EN 13501-1

EN 13501-1 EN13501-1, 2018: Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.

ISO 14025

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

EN 14351-1

EN 14351-1:2006+A2:2016, Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets.

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 17213

EN 17213:2020, Windows and doors – Environmental Product Declarations – Product category rules for windows and pedestrian doorsets.

Regulation (EU) No 305/2011

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

Candidate list

ECHA Candidate list of substances of very high concern, status 23.08.2023



ISO 10077-1

ISO 10077-1:2017, Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General.

ISO 10077-2

ISO 10077-2:2017, Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2:

Numerical method for frames.

LCA for Experts (GaBi) LCA software, Managed LCA Content and Ecoinvent databases

The LCA modelling software is LCA for Experts program version 10.7.1 with corresponding databases from Sphera Solutions GmbH (Managed LCA Content) and Ecoinvent. Documentation hyperlink www.gabisoftware. com/support/gabi.





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