Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Epiq by QFORT
Windows | PVC | 6Stars

from

CasaNoastră®

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of a single product from a manufacturer
EPD registration number:	EPD-IES-0027635:001
Version date:	2025-12-12
Validity date:	2030-12-11
	An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com

GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 Construction products (version 2.0.1)
PCR review was conducted by: The Technical Committee of the International EPD® System. Chair of the PCR review is Rob Rouwette. The review panel may be contacted via info@environdec.com.
c-PCR: c-PCR-007 (to PCR 2019:14) Version 1.0.0 Windows and doors (EN 17213:2020) of The International EPD System

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ **Individual EPD verification without a pre-verified LCA/EPD tool** Third-party verifier: prof. Ing. Silvia Vilčeková, PhD., Silcert, s.r.o. Approved by: International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.
For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Casa Noastra SRL
Address: Calea Bucuresti, 113, 207450 Pielesti, Romania
Contact: Enuica Constantin: constantin.enuica@casanoastra.ro
Address and contact information of the LCA practitioner commissioned by the EPD owner: LCA Studio s.r.o.
Ing. Eliška Purkarová, Ph.D. (eliska.purkarova@lcastudio.cz); prof. Ing. Vladimír Kočí, Ph.D., MBA (vladimir.koci@lcastudio.cz); Ing. et Ing. Tatiana Trecáková, Ph.D. (tatiana.trecakova@lcastudio.cz); Šárecká 1962/5, 16000 Prague 6, Czech Republic www.lcastudio.cz

LCA Studio

Description of the organisation:
Casa Noastra is one of the most reputable and robust entrepreneurial businesses born in Romania and operating internationally, manufacturing top quality thermal-insulating joinery. The main countries where we are present include Romania, Italy, France, Austria, Belgium, Germany, the United Kingdom, Spain and Switzerland.
Our PVC and aluminium solutions (windows, entrance doors, sliding systems, shading systems) stand out by their durability, high thermal and sound insulation performance, and modern design, adding extra comfort to any space.
With over 20 years of experience in the field, we have built a network of more than 1 000 commercial partners and over 1 100 sale points across Europe.
To create high-quality thermal-insulating window and door systems, we have consistently invested in developing modern production, logistics, and distribution capacities. The company Casa Noastra platform covers a total area of approximately 118 000 sqm and includes 7 production plants.
Product-related or management system-related certifications:
Casa Noastra SRL is certified according to ISO 9001, 14001, 45001.

PRODUCT INFORMATION

Product name: Epiq by QFORT
Product identification: Permanent windows, intended for all kinds of buildings: residential, offices, commercial, schools, hospitals, etc.

Visual representation of the product:

UN CPC code: 3695 Builders' ware of plastics n.e.c.
Product description:

The Epiq 6Stars system is the flagship of our PVC product range, featuring exclusive QFORT - designed profiles. It is a premium, A Class product with a straight, minimalist design, a 76 mm installation depth, providing high energy efficiency and visual harmony.

Technical specifications of product:

- standard 1,23 m x 1,48 m window with triple glazing;
- 6 chambers in the frame;
- 6 chambers in the sash;
- assembly depth: 76 mm;
- outer wall thickness of PVC profiles: 2,8 mm – 3 mm;
- modern design with clean lines, 10 mm external wing on the profiles, straight glazing beads joined at 45º (standard) or 90º (optional);
- glazing with thicknesses between 24 mm and 50 mm;
- easy cleaning;
- very high tightness of the window against wind, rain and dust.

Gaskets - 6Stars PVC Profile:

- 3 sealing gaskets (co-extruded): two on the frame and one applied on the sash. The second gasket on the frame, called the median gasket, is an extruded gasket that improves the tightness capacity and increases the level of sound and thermal insulation;
- an additional seal, with a protective role against dust deposits and impurities.

Thermal insulation

U_w = 0,79 W/m^{2}K for triple glazing unit with U_g = 0,5 W/m^{2}K
Uw value is being calculated for a single wing standard window of 1230x1480 mm, with an area of 1,82 m2 and warm spacer.

Name and location of production site:
Sc Casa Noastra Srl
Calea Bucuresti, 113, 207450 Pielesti, Romania

References to any relevant websites for more information or explanatory materials:
https://qfort.ro/ferestre/pvc/6stars/

CONTENT DECLARATION

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Glass	30,00	0	0	0
PVC	14,38	0	0	0
Steel	8,78	0,67	0	0
TOTAL	53,16	0,67	0	0

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
PE foil	0,21	0,39	0
TOTAL	0,21	0,39	0

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

The product does not contain any substances of very high concern (SVHC) according to REACH.

LCA INFORMATION

Declared unit: 1 m^2 of window Epiq by QFORT
Conversion factor to mass: The conversion factor to mass is 0,019. To convert the results into 1 kg, the values must be multiplied by this factor.
Reference service life: 30 years
Time representativeness: Site specific data from producer is based on 1 year average for process data (reference year 2025). Time scope less than 10-years was applied for background data. Time scope less than 2 years was applied for specific data.
Geographical scope: Romania, Europe, Global
Database(s) and LCA software used: LCA for Experts (version 10.9.3.0), Sphera database (2025.2) and ecoinvent database (version 3.11)
Description of system boundaries:
This EPD is based on system boundary cradle-to-gate with options, modules C1-C4, module D and optional modules A4, A5 according to EN 15804:2012+A2:2019/AC:2021. It covers the production of raw materials, all relevant transport down to factory gate, manufacturing of window by Casa Noastra SRL, transport to customers, construction, deconstruction, transport of deconstructed materials and recovery/disposal of used window together with benefits from reclaimed products. The review framework comprises the following details:
• Raw materials acquisition and transport,
• Further processing of raw materials,
• Production operations,
• Energy consumption,
• Packaging,
• Waste management,

• Transport to customers,
• Construction of product,
• Deconstruction of product,
• Transport of deconstructed product,
• Recovery of used products,
• Disposal of used products,
• Benefits from reclaimed product.

Process flow diagram:

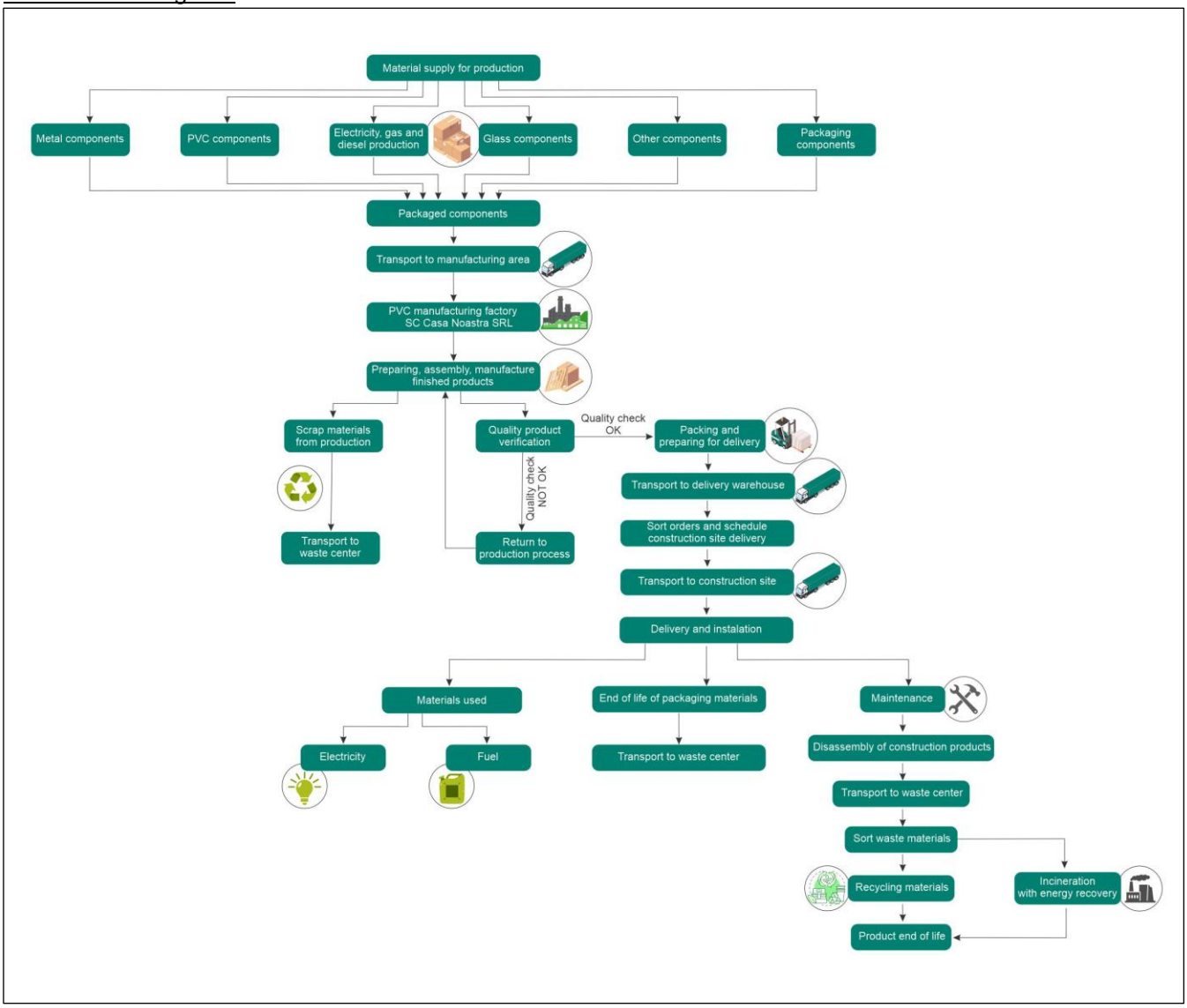

Figure 1 System boundary of the LCA study conducted on window Epiq by QFORT.

Cut off rules: The cut-off criterion was chosen based on the used PCR. According to the used PCR, more than 99 % of flows were included.
Allocations: As a general allocation rule the production of 1 m^2 of product was chosen. Common inputs, material inputs, transport and common outputs (waste generated) are allocated to product, i.e. to declared unit of product.

Information about declared modules:

Module A1 covers the production of materials and components for CASA NOASTRA SRL and also it includes fuels and energy carriers (electricity, natural gas). This consists of the production of input materials as glass or PVC.

Module A2 covers the transport of material into the site of production CASA NOASTRA SRL Generic database processes with site-specific parameters for distance were used.

Module A3 covers on-site operated processes dealing with window production and packaging. These processes are under the operational control of CASA NOASTRA SRL, and these are specific processes modelled based on data collection.

Module A4 covers the transport of products to the customers of CASA NOASTRA SRL. Generic database processes with site-specific parameters for distance were used. According to PCR a weighted average of transportation modes and distances, based on transportation to several customers or markets, representing the geographical scope of the EPD was used in module A4.

Module A5 covers processes dealing with installation of window on construction site. It represents disposal of packaging from used window (100% of recycling) and electricity used for installation of window. The electricity consumption for the installation of window, such as screw fixing, is assumed to be 0,085 kWh.

Module C1 covers estimated energy for deconstruction related to the mass of deconstructed material. According to PCR 1,1 kWh/t of energy carrier Diesel was used for deconstruction of window.

Module C2 covers the transport of material into recovery/disposal plant. Generic database processes with estimated general distances were used according to PCR. Distance for the transport of material for recycling was set according to PCR at 80 km.

Module C3 covers the processing of waste for energy recovery and recycling. During the End-of-Life phase, a portion of PVC from used windows is incinerated. This module also covers waste treatment processes, such as sorting recyclable fractions (steel, PVC, glass). The scenarios were modeled in accordance with EN 17213:2020.

Module C4 covers the landfilling of components from used windows (glass and non-glass parts). The scenarios were modeled in accordance with EN 17213:2020.

Module D accounts for the declared benefits associated with energy recovery from part of PVC originating from used windows. It also includes the declared benefits from recycling other components of the window, such as steel, PVC, and glass.

Electricity mix: Database process of Romania residual grid mix is used for consumed electricity in production process. The used dataset has impact of 0,275 kg CO_2 eq./kWh for GWP-GHG indicator.

Characterisation factors: Characterisation factors are based on Environmental Footprint 3.1. (EF 3.1).

Data quality of processes contributing with more than 10 % to the GWP-GHG results of modules A1-A3:

Process	Source Type	Source	Reference year	Data category
Production of glass	Database	Sphera 2025.2	2025	Secondary
Production of PVC	Database	Ecoinvent 3.11	2025	Secondary
Production of steel	Database	Sphera 2025.2	2025	Secondary

The data quality assessment:

The data quality assessment has been carried out in accordance with EN 15941 and the applicable PCR requirements. The assessment covers geographical, technical, and temporal representativeness of the data and includes all relevant datasets contributing to at least 80% of the results for each declared environmental impact indicator. Primary data from the production process (including raw materials,

auxiliary materials, and energy consumption) have been complemented with high-quality secondary data from recognized databases (Sphera 2025.2 and Ecoinvent 3.11). Based on this evaluation, the overall data quality is considered good and compliant with EN 15941.

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	RO	GLO	GLO	NR	NR	NR	NR	NR	NR	NR	GLO	GLO	GLO	GLO	GLO
Share of primary data	12,8%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804

Results per 1 m² of window Epiq by QFORT

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-fossil	kg CO_2 eq.	9,71E+01	2,12E+00	4,47E-02	2,12E-02	4,76E-01	1,21E+01	4,76E-01	-3,62E+01
GWP-biogenic	kg CO_2 eq.	-5,93E-01	1,88E-04	2,78E-05	4,29E-06	4,21E-05	7,40E-04	1,02E+00	0,00E+00
GWP-luluc	kg CO_2 eq.	1,01E-01	2,18E-02	4,16E-05	2,17E-06	4,89E-03	3,80E-03	1,76E-03	-2,16E-02
GWP-total	kg CO_2 eq.	9,66E+01	2,14E+00	4,47E-02	2,12E-02	4,81E-01	1,21E+01	4,77E-01	-3,63E+01
ODP	kg CFC 11 eq.	1,46E-05	3,51E-13	3,46E-12	3,15E-10	7,88E-14	1,26E-11	1,41E-12	-1,25E-10
AP	mol H^+ eq.	8,34E-01	3,22E-03	7,50E-05	1,89E-04	2,51E-03	3,27E-03	3,21E-03	-1,43E-01
EP-freshwater	kg P eq.	1,25E-02	5,70E-06	2,31E-08	6,83E-07	1,28E-06	1,53E-06	6,11E-05	-2,79E-05
EP-marine	kg N eq.	1,36E-01	1,30E-03	2,28E-05	8,83E-05	1,23E-03	1,06E-03	8,05E-04	-3,46E-02
EP-terrestrial	mol N eq.	1,64E+00	1,38E-02	2,49E-04	9,65E-04	1,34E-02	1,36E-02	8,78E-03	-3,92E-01
POCP	kg NMVOC eq.	3,86E-01	2,89E-03	6,03E-05	2,89E-04	2,39E-03	2,98E-03	2,44E-03	-9,74E-02
ADP-minerals&metals*	kg Sb eq.	7,51E-03	1,41E-07	3,33E-09	7,56E-09	3,16E-08	1,23E-07	3,04E-08	-1,70E-06
ADP-fossil*	MJ	1,56E+03	2,71E+01	8,02E-01	2,73E-01	6,08E+00	2,66E+01	6,77E+00	-5,46E+02
WDP*	m^3	3,74E+01	9,68E-03	2,37E-03	8,36E-04	2,17E-03	1,17E+00	5,35E-02	-1,25E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption								

** Disclaimer:*
The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

Additional mandatory and voluntary impact category indicators

Results per 1 m² of window Epiq by QFORT									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[1]	kg CO_2 eq.	9,74E+01	2,15E+00	4,47E-02	2,12E-02	4,82E-01	1,21E+01	4,79E-01	-3,63E+01
Particulate matter	Disease incidences	4,48E-06	2,96E-08	7,18E-10	5,35E-09	1,42E-08	6,46E-08	3,83E-08	-1,13E-06
Ionising radiation, human health	kBq U235 eq.	7,26E+00	7,35E-03	1,61E-02	1,18E-04	1,65E-03	1,68E-01	9,84E-03	-1,68E+00
Ecotoxicity, freshwater	CTUe	3,40E+03	3,53E+01	1,11E-01	1,46E-02	7,91E+00	1,47E+01	7,95E+00	-3,77E+02
Human toxicity, cancer	CTUh	1,58E-07	4,76E-10	4,43E-12	2,29E-12	1,07E-10	4,80E-10	1,22E-10	-2,13E-08
Human toxicity, non-cancer	CTUh	4,39E-06	2,66E-08	1,25E-10	3,48E-11	5,97E-09	3,59E-08	3,39E-09	-7,67E-08
Land Use	Pt	1,51E+02	1,20E+01	7,80E-02	1,81E-02	2,69E+00	4,37E+00	1,44E+00	-2,87E+01

Resource use indicators

Results per 1 m² of window Epiq by QFORT									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	1,75E+02	2,04E+00	1,31E-01	1,74E-03	4,58E-01	5,20E+00	1,24E+00	-3,99E+01
PERM	MJ	6,68E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,81E+02	2,04E+00	1,31E-01	1,74E-03	4,58E-01	5,20E+00	1,24E+00	-3,99E+01
PENRE	MJ	1,56E+03	2,71E+01	8,02E-01	2,73E-01	6,08E+00	2,66E+01	6,77E+00	-5,46E+02
PENRM	MJ	2,59E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,56E+03	2,71E+01	8,02E-01	2,73E-01	6,08E+00	2,66E+01	6,77E+00	-5,46E+02
SM	kg	2,20E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	9,08E-01	1,01E-03	1,54E-04	1,95E-05	2,27E-04	2,99E-02	1,57E-03	-7,52E-02

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

Waste indicators

Results per 1 m² of window Epiq by QFORT									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	1,31E+00	1,09E-09	2,28E-06	2,44E-04	2,44E-10	9,94E-09	1,49E-09	-7,61E-08
Non-hazardous waste disposed	kg	9,39E+01	3,79E-03	2,16E-04	1,81E-03	8,49E-04	4,96E+00	2,68E+01	-1,63E+00
Radioactive waste disposed	kg	1,76E-02	5,12E-05	9,80E-05	0,00E+00	1,15E-05	1,16E-03	8,11E-05	-1,09E-02

Output flow indicators

Results per 1 m² of window Epiq by QFORT									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**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	0,00E+00	0,00E+00
Material for recycling	kg	3,95E+00	0,00E+00	2,10E-01	0,00E+00	0,00E+00	2,04E+01	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+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	1,54E+01	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,80E+01	0,00E+00	0,00E+00

Additional LCA results (other environmental performance results) of the product

Alternative end-of-life scenarios were developed to represent a range from minimum to maximum potential benefits, as reflected in the LCA results presented below. A scenario assuming 100% landfilling of all product components results in a significant reduction of benefits. In contrast, a 100% recycling scenario provides the highest benefits by maximising the substitution potential in subsequent product systems. The second-highest level of benefits is achieved in the scenario assuming 100% energy recovery.

Results per 1 m² of window Epiq by QFORT										
		100% Landfill			100% Recycling			100% Energy recovery		
Indicator	Unit	C3	C4	D	C3	C4	D	C3	C4	D
GWP-fossil	kg CO_2 eq.	0,00E+00	1,08E+00	-4,21E-01	9,04E-01	0,00E+00	-8,09E+01	3,34E+01	0,00E+00	-1,04E+01
GWP-biogenic	kg CO_2 eq.	0,00E+00	1,02E+00	-1,58E-03	9,17E-04	0,00E+00	-2,52E-01	1,02E+00	0,00E+00	-1,24E-02
GWP-luluc	kg CO_2 eq.	0,00E+00	3,66E-03	-1,19E-04	2,97E-04	0,00E+00	-5,36E-02	1,90E-02	0,00E+00	-2,97E-03
GWP-total	kg CO_2 eq.	0,00E+00	1,08E+00	-4,23E-01	9,05E-01	0,00E+00	-8,12E+01	3,35E+01	0,00E+00	-1,04E+01
ODP	kg CFC 11 eq.	0,00E+00	3,36E-12	-6,87E-13	6,82E-12	0,00E+00	-2,87E-10	3,03E-11	0,00E+00	-6,53E-11
AP	mol H^+ eq.	0,00E+00	7,00E-03	-9,47E-04	9,83E-04	0,00E+00	-4,07E-01	1,72E-02	0,00E+00	-1,09E-02
EP-freshwater	kg P eq.	0,00E+00	2,43E-04	-5,70E-07	1,70E-07	0,00E+00	-7,49E-05	1,13E-05	0,00E+00	-2,26E-06
EP-marine	kg N eq.	0,00E+00	1,69E-03	-2,57E-04	2,96E-04	0,00E+00	-9,71E-02	6,41E-03	0,00E+00	-3,36E-03
EP-terrestrial	mol N eq.	0,00E+00	1,85E-02	-2,78E-03	3,25E-03	0,00E+00	-1,11E+00	7,46E-02	0,00E+00	-3,68E-02
POCP	kg NMVOC eq.	0,00E+00	5,19E-03	-1,28E-03	8,56E-04	0,00E+00	-2,60E-01	1,75E-02	0,00E+00	-1,03E-02
ADP-minerals&metals *	kg Sb eq.	0,00E+00	7,06E-08	-3,49E-08	4,84E-08	0,00E+00	-4,32E-06	3,11E-07	0,00E+00	-5,24E-07
ADP-fossil*	MJ	0,00E+00	1,63E+01	-1,47E+01	1,56E+01	0,00E+00	-1,30E+03	1,28E+02	0,00E+00	-1,84E+02
WDP*	m^3	0,00E+00	1,25E-01	-7,19E-02	3,07E-02	0,00E+00	-3,30E+00	7,50E+00	0,00E+00	-3,64E-01

Results per 1 m² of window Epiq by QFORT										
		100% Landfill			100% Recycling			100% Energy recovery		
Indicator	Unit	C3	C4	D	C3	C4	D	C3	C4	D
GWP-GHG	kg CO_2 eq.	0,00E+00	1,09E+00	-4,23E-01	9,05E-01	0,00E+00	-8,12E+01	3,35E+01	0,00E+00	-1,04E+01

Particulate matter	Disease incidences	0,00E+00	8,04E-08	-8,21E-09	9,19E-09	0,00E+00	-2,85E-06	3,35E-07	0,00E+00	-1,00E-07
Ionising radiation, human health	kBq U235 eq.	0,00E+00	2,67E-02	-1,46E-02	2,07E-01	0,00E+00	-2,92E+00	1,13E+00	0,00E+00	-1,98E+00
Ecotoxicity, freshwater	CTUe	0,00E+00	2,34E+01	-9,96E+00	1,10E+00	0,00E+00	-1,14E+03	5,23E+01	0,00E+00	-2,07E+01
Human toxicity, cancer	CTUh	0,00E+00	3,46E-10	-1,76E-10	7,98E-11	0,00E+00	-3,48E-08	1,72E-09	0,00E+00	-1,04E-09
Human toxicity, non-cancer	CTUh	0,00E+00	8,16E-09	-2,73E-09	1,41E-09	0,00E+00	-2,36E-07	1,02E-07	0,00E+00	-1,64E-08
Land Use	Pt	0,00E+00	3,11E+00	-2,43E-01	8,73E-01	0,00E+00	-8,77E+01	2,09E+01	0,00E+00	-8,53E+00

Results per 1 m² of window Epiq by QFORT

		100% Landfill			100% Recycling			100% Energy recovery		
Indicator	**Unit**	**C3**	**C4**	**D**	**C3**	**C4**	**D**	**C3**	**C4**	**D**
PERE	MJ	0,00E+00	2,86E+00	-4,12E-01	1,67E+00	0,00E+00	-1,23E+02	2,49E+01	0,00E+00	-1,62E+01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0,00E+00	2,86E+00	-4,12E-01	1,67E+00	0,00E+00	-1,23E+02	2,49E+01	0,00E+00	-1,62E+01
PENRE	MJ	0,00E+00	1,63E+01	-1,47E+01	1,56E+01	0,00E+00	-1,30E+03	1,28E+02	0,00E+00	-1,84E+02
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	1,63E+01	-1,47E+01	1,56E+01	0,00E+00	-1,30E+03	1,28E+02	0,00E+00	-1,84E+02
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	0,00E+00	3,66E-03	-1,83E-03	1,98E-03	0,00E+00	-1,93E-01	1,83E-01	0,00E+00	-2,06E-02

Results per 1 m² of window Epiq by QFORT

		100% Landfill			100% Recycling			100% Energy recovery		
Indicator	**Unit**	**C3**	**C4**	**D**	**C3**	**C4**	**D**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	0,00E+00	3,58E-09	-1,14E-09	2,09E-09	0,00E+00	-2,55E-07	4,61E-08	0,00E+00	-2,14E-08
Non-hazardous waste disposed	kg	0,00E+00	5,31E+01	-2,53E-03	3,91E-03	0,00E+00	-5,02E+00	2,63E+01	0,00E+00	-4,49E-02

Radioactive waste disposed	kg	0,00E+00	2,10E-04	-9,20E-05	1,26E-03	0,00E+00	-2,06E-02	7,23E-03	0,00E+00	-1,20E-02

Results per 1 m^2 of window Epiq by QFORT										
		100% Landfill			100% Recycling			100% Energy recovery		
Indicator	**Unit**	**C3**	**C4**	**D**	**C3**	**C4**	**D**	**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	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	0,00E+00	0,00E+00	0,00E+00	5,32E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+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	0,00E+00	3,74E+01	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,79E+01	0,00E+00	0,00E+00

ADDITIONAL ENVIRONMENTAL INFORMATION

Environmental Management System (EMS)

ISO 14001 Implementation:

- SC CASA NOASTRĂ has implemented an Environmental Management System in accordance with the ISO 14001 standard, providing a structured framework for managing and reducing environmental impacts.
- The main EMS objectives include:
  - Reducing greenhouse gas emissions and resource consumption.
  - Improving energy efficiency and waste management.
  - Ensuring compliance with all applicable environmental regulations.

Environmental Policies:

- The organization has established clear environmental policies that reflect its commitment to environmental protection, including specific objectives aimed at minimizing environmental impacts.

Organized Environmental Activities

Sustainability Projects:

- Casa Noastră initiates and participates in various environmental projects, such as:
  - Tree-planting campaigns.
  - Environmental education programs within the community, raising awareness of the importance of environmental protection.

Waste Management:

- An effective waste management system has been implemented, including:
  - Selective waste collection.
  - Collaboration with specialized recycling partners to recover and valorize materials.

Stakeholder Information

Accessibility:

- Stakeholders can access detailed information regarding SC CASA NOASTRĂ's environmental activities on the company's official website (www.qfort.ro), in the sustainability and corporate social responsibility section.
- Sustainability Reports: The company publishes annual sustainability reports providing information on environmental performance, achieved objectives, and future plans.

Contact for Additional Information:

- Stakeholders may contact the company's environmental department for questions or additional information. Contact details are available on the official website.

SC CASA NOASTRĂ demonstrates a strong commitment to environmental protection through the implementation of an effective Environmental Management System, organized ecological activities, and transparent reporting of environmental information. This commitment not only enhances the organization's environmental performance but also supports the development of a responsible organizational culture.

ADDITIONAL SOCIAL AND ECONOMIC INFORMATION

Social Engagement

Medical support:

Financial contributions were directed toward individuals undergoing medical treatment, persons with mobility impairments requiring wheelchair assistance, as well as organization supporting individuals with autism.

In-kind sponsorships:

Donations in the form of goods and materials were provided to medical institutions, including the Drăgășani Hospital and the County Clinical Hospital No. 1 Craiova – Surgery Department. Support included an ultra-modern hospital bed and PVC joinery for the renovation and improvement of several hospital units.

Support for Education

Casa Noastră offers annual support to high-performing students from secondary and high schools by awarding monthly scholarships for a period of 12 months, specifically to winners of the National School Olympiads.

Scholarships were also granted to talented children and students from disadvantaged families. Casa Noastră is an official partner of the Ministry of Education in the development and implementation of dual education programmes, contributing to vocational training and skills development.

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CPC	Central product classification
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse gas
GWP	Global Warming Potential (kg CO_2 eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO_2 eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO_2 eq.)
GWP-luluc	Global Warming Potential from land use and land use change (kg CO_2 eq.)
GWP-total	Total Global Warming Potential (kg CO_2 eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO_2 eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H^+ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m^3)
Resource Use Indicators	
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)
PERM	Use of renewable primary energy resources used as raw materials (MJ)
PERT	Total use of renewable primary energy resources (MJ)
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ)
PENRM	Use of non-renewable primary energy resources used as raw materials (MJ)
PENRT	Total use of non-renewable primary energy resources (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m^3)
Waste Indicators	
HW	Hazardous Waste (disposed) (kg)
NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)
Output Flow Indicators	
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)

Lifecycle Stages / Modules	
A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site
A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
D	Reuse-Recovery-Recycling potential
Other Relevant Terms	
SVHC	Substances of Very High Concern
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
UN	United Nations
MJ	Megajoule
kg	Kilogram
m^3	Cubic Meter
NMVOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO_2 eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO_2 eq.	Kilograms of Carbon Dioxide Equivalent
kBq U235 eq.	Kilobecquerel Uranium-235 Equivalent
ND	Not Declared
CTUe	Comparative Toxic Unit for ecosystems
CTUh	Comparative Toxic Unit for humans
GLO	Global
RO	Romania
NR	No Region

REFERENCES

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