



EN 15804:2012+A2:2019/AC:2021 for:

THE INTERNATIONAL EPD® SYSTEM

The International EPD® System

Program operator: EPD international AB

Registration number: EPD-IES-0021378



Isover DOMO PLUS & DOMO PLUS TWIN

Version 1

Publication date: 2025/05/01

Valid until: 2030/04/30

Validity: 5 years

Scope of the EPD®: Europe





Programme information

PROGRAMME: The International EPD® System

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CEN standard EN 15804:2012 + A2:2019/AC:2021 serves as the Core Product Category Rules (PCR)

Product category rules (PCR): PCR 2019:14 Construction Products, version 1.3.2

Complementary PCR: (c-PCR-005), 2024-05-03. Thermal insulation products (EN 16783:2017)

PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members.

Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.

LCA accountability: Alexander Munge, CHM Analytics AB

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

☑ EPD verification by individual verifier

Third party verifier: Silcert, s.r.o

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Approved by: The International EPD© System

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804:2012+A2:2019/AC:2021 and ISO 14025:2006.



1

Product information

Company information

Manufacturer: Saint-Gobain Construction Products România ISOVER

Production plant: ISOVER, Ploiesti, Romania

Management system-related certification: ISO 14001, ISO 9001, ISO 18001

Programme used: EN 15804:2012+A2:2019/AC:2021 Sustainability of construction works – Environmental product declaration - core rules for the product category of construction product and The

International EPD® System

PCR identification PCR 2019:14 version 1.3.2 for Construction products

Prepared by: IVL Swedish Environmental Research Institute, EPD International Secretariat **Owner of the declaration:** Saint-Gobain Construction Products România ISOVER Business Unit **UN CPC CODE:** 37990 Non-metallic mineral products n.e.c. (including mineral wool, expanded mineral materials, worked mica, articles of mica, non-electrical articles of graphite or other carbon and articles of peat)

Product name and manufacturer represented: Isover DOMO PLUS, Saint-Gobain Construction Products România

EPD® prepared by: Ana-Maria Dumitru (Saint-Gobain România) and Yves Coquelet (Saint-Gobain LCA central team)

The intended use of this EPD is for B2B communication.

Geographical scope of the EPD®: Europe EPD® registration number: EPD-IES-0021378

Declaration issued: 2025/05/01 valid until: 2030/04/30

Demonstration of verification: An independent verification of the declaration was made, according to ISO 14025:2010. This verification was external and conducted by the following third party based on the PCR mentioned above.





Product description

Product description and description of use

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1 m² of mineral wool with a thermal resistance of 1.3 K.m².W¹ of Isover DOMO PLUS TWIN. To calculate the impact of the range of commercial thicknesses between 50 mm and 100 mm, see the table "influence of particular thickness". in additional information section.

This EPD applies for one specific product produced in one single plant of Saint-Gobain Construction Products România ISOVER.

The production site of Saint-Gobain Construction Products, România in ISOVER uses natural raw materials (sand), recycled glass cullet, and fusion and fiberizing techniques to produce glass wool. The products are obtained in the form of a "mineral wool mat" characterized with a soft and airy structure.

Isover DOMO PLUS TWIN can be used for thermal and sound insulation of residential buildings where insulation is not subject to mechanical loads:

- partition walls
- walls of wooden houses
- · the inner surface of vertical walls
- attics floors

For more info see here:

https://www.isover.ro/products/isover-domo-plus#descriptions

Technical data/physical characteristics:

PARAMETER		VALUE / DESCRIPTION
	Thermal resistance	1.3 K.m ² .W ⁻¹ (EN 13162:2012+A1:2015)
	Thermal conductivity	0.038 W/(m·K) (EN 13162:2012+A1:2015)
	Reaction to fire	A1 (EN 13162:2012+A1:2015)
	Density	13.3 kg/m ³

Declaration of the main product components and/or materials

Description of the main components and/or materials:

Quantity for 1 declared unit	0.	67 kg of finished product	
		_	

Product components	Weight (%)	Post-consumer material weight (%)	Biogenic material weight- kg C/product
Mineral materials	50 – 60 %	0%	0
Recycled glass	30 – 40 %	4%	0
Additives	5 – 10 %	0%	0
Binder	4 – 5 %	0%	0
Sum	100%		
Packaging materials	Weight (%)	Weight-% (vs the product)	Biogenic material, weight- kg C/product
LDPE film	20 – 30%	1.6 %	0
Paper label	0-1%	0.04%	1.16E-04
Thermal ribbon	0-1%	0.02%	0
Wooden pallet	70– 80%	4.5 %	1.32E-02



At the date of issue of this declaration, there is no "Substance of Very High Concern" (SVHC) in concentration above 0.1% by weight, and neither do their packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals).

The verifier and the program operator do not make any claim nor have any responsibility of the legality of the product.



LCA calculation information

TYPE OF EPD	Cradle to grave and module D
FUNCTIONAL UNIT	Providing a thermal insulation on 1 m ² of product with a thermal resistance of 1.3 K.m2.W-1 and a thickness of 50 mm during 50 years
SYSTEM BOUNDARIES	Cradle to grave (A1, A2, A3, A4, A5, B1-B7, C1-C4) and module D
REFERENCE SERVICE LIFE (RSL)	The Reference Service Life (RSL) of the insulation product is 50 years. This 50-year value is the amount of time that we recommend our products last for without refurbishment and corresponds to standard building design life.
CUT-OFF RULES	In the case that there is not enough information, the process energy and materials representing less than 1% of the whole energy and mass used can be excluded (if they do not cause significant impacts). The addition of all the inputs and outputs excluded cannot be bigger than the 5% of the whole mass and energy used, as well of the emissions to environment occurred. Flows related to human activities such as employee transport are excluded. The construction of plants, production of machines and transportation systems are excluded since the related flows are supposed to be negligible compared to the production of the building product when compared at these systems lifetime level.
ALLOCATIONS	Allocation has been avoided when possible and when not possible a mass allocation has been applied. The polluter pays and the modularity principles as well have been followed.
GEOGRAPHICAL COVERAGE AND TIME PERIOD	Scope: Europe Data is collected from one production site Saint-Gobain Construction Products, ISOVER located in Romania, Ploiesti Data collected for the year 2023
BACKGROUND DATA SOURCE	The databases Sphera 2023.2 and ecoinvent v.3.9.1
SOFTWARE	Sphera LCA for experts (GaBi) 10



LCA scope

System boundaries (X=included. MND=module not declared)

		RODU STAGI		TI	STRUC ON AGE			US	SE ST	AGE		END	OF LI	FE STA	.GE	BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY	
	Raw material supply	Transport	Manufacturing	Transport	Construction- Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-recovery
Module	A1	A2	АЗ	A4	A5	В1	B2	ВЗ	B4	B5	B6	В7	C1	C2	C3	C4	D
Modules declared	Χ	Χ	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Χ	Х	Х	X	×
Geography	EU	EU	RO	EU	EU	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specific data used Variation products Variation	82%	GHG 0%	WP-														

Life cycle stages

sites

0%





A1-A3, Product stage

The product stage of the mineral wool products is subdivided into 3 modules A1, A2 and A3 respectively "raw material supply", "transport to the manufacturer" and "manufacturing".

A1, Raw materials supply

This module includes the extraction and processing of all raw materials and packaging which occur upstream to the manufacturing site.

A2, Transport to the manufacturer

This module includes the transportation of raw materials and packaging to the manufacturing site. The modelling includes road, boat and/or train transportations.

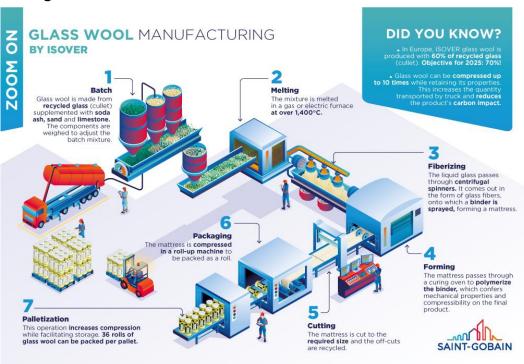
A3, Manufacturing

This module includes the manufacture of products such as (fusion, fiberizing, etc) and the manufacture of packaging. The production of packaging material is considered at this stage. The processing of any waste arising from this stage is also included. Energy production is accounted also.

During the manufacturing process, electricity based on 67% renewable electricity bought with Guarantee of Origin (GO) has been used. The amount of electricity purchases with GO's correspond to 67% of the electricity consumed at the manufacturing site, leaving 33% to be covered by national grid mix.

Manufacturing process flow diagram

System diagram:



A4-A5, Construction process stage

The construction process is divided into 2 modules: A4, Transport to the building site and A5, Installation in the building.



A4, Transport to the building site: This module includes transport from the production gate to the building site. Transport is calculated based on a scenario with the parameters described in the following table.

PARAMETER	VALUE
Fuel type and consumption of vehicle or vehicle	Freight truck, maximum load weight of 27 t and
type used for transport e.g. long distance truck,	consumption of 0.38 liters per km
boat, etc.	
Distance	879.13 km
Capacity utilisation (including empty returns)	100% of the capacity in volume
Capacity utilisation (including empty returns)	0% of empty returns
Bulk density of transported products	91.8 kg/m ³
Volume capacity utilisation factor	1

A5, Installation in the building: this module includes the installation of the product manually and no additional accessories, nor energy are considered

PARAMETER	VALUE/DESCRIPTION
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	2 %
Distance	50 km to landfill by truck
Output materials (specified by type) as results of waste processing at the building site e.g., of collection for recycling, for energy recovering, disposal (specified by route)	Product losses: 0.0133 kg/m² Materials to: -recycling: 2.28E-03 kg/m² PE film; 3.32E-03 kg/m² wooden pallet -energy recovery: 2.16E-03 kg/m² PE film; 1.93E-04 kg/m² wooden pallet - reuse: 2.58E-02 kg/m² wooden pallet -landfill: 6.54E-03 kg/m² PE film; 2.93E-03 kg/m² wooden pallet

B1-B7, Use stage (excluding potential savings)

The use stage is divided into the following modules:

- **B1**: Use
- B2: Maintenance
- B3: Repair
- **B4**: Replacement
- **B5**: Refurbishment
- B6: Operational energy use
- B7: Operational water use

The product has a reference service life of 50 years. This assumes that the product will last in situ with no requirements for maintenance, repair, replacement, or refurbishment throughout this period. Therefore, it has no impact at this stage.

C1-C4, End of Life Stage

This stage includes the following modules:

- C1: The de-construction and/or dismantling of the product takes part of the demolition of the entire building. In our case, the energy is considered is 0.05 MJ/kg.
- C2: Transport to waste processing
- C3: Waste processing for reuse, recovery and/or recycling
- C4: Waste disposal, including physical pre-treatment and site management.



Description of the scenarios and additional technical information for the end of life:

PARAMETER	VALUE/DESCRIPTION
Collection process specified by type	The entire product, including any facing is collected with mixed construction waste. 0.665 kg of mineral wool
Recovery system specified by type	There is no recovery, recycling or reuse of the product once it has reached its end of life phase.
Disposal specified by type	0.665 kg of mineral wool are landfilled
Assumptions for scenario development (e.g. transportation)	The waste going to landfill is transported 50 km by truck from deconstruction/demolition sites to landfill

D, Reuse/recovery/recycling potential

There is 31% recycled content into packaging foil (PE).

100% of wastes are landfilled. There is no reuse, nor recycling, nor incineration with energy recovery for the product.



LCA results

As specified in EN 15804:2012+A2:2019/AC:2021 and the Product-Category Rules, the environmental impacts are declared and reported using the baseline characterization factors are from the ILCD. Raw materials and energy consumption, as well as transport distances have been taken directly from the manufacturing plant. Characterisation factors EN15804 based on EF 3.1.

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.

All emissions to air, water, and soil, and all materials and energy used have been included.

The results of the impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, noncancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.

This EPD including module C, we strongly advise against using the results of modules A1-A3 without considering the results of module C.

Results refer to a functional unit of 1 m² of mineral wool with thermal resistance of 1.3 m².K.W⁻¹ for a thickness of 50 mm. To obtain results with different commercial thicknesses see additional information section.



Environmental Impacts

		PRODUCT STAGE		RUCTION AGE			U	SE S	TAGI	E		E	BENEFITS AND LOADS BEYOND THE LIFE CYCLE			
Environmental indicators		A1/A2/A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Climate Change [kg CO2 eq.]	1.12E+00	3.56E-02	7.19E-02	0	0	0	0	0	0	0	2.97E-03	2.42E-03	0.00E +00	1.34E-02	-7.35E-03
(0)2	Climate Change (fossil) [kg CO2 eq.]	1.15E+00	3.52E-02	3.17E-02	0	0	0	0	0	0	0	2.97E-03	2.39E-03	0.00E +00	9.84E-03	-7.36E-03
	Climate Change (biogenic) [kg CO2 eq.]	-2.48E-02	9.33E-05	4.02E-02	0	0	0	0	0	0	0	3.75E-07	6.40E-06	0.00E +00	3.50E-03	1.95E-05
	Climate Change (land use change) [kg CO2 eq.]	4.14E-04	3.31E-04	1.07E-05	0	0	0	0	0	0	0	3.34E-07	2.20E-05	0.00E +00	3.10E-05	-6.83E-06
	Ozone depletion [kg CFC-11 eq.]	1.14E-07	3.13E-15	2.29E-09	0	0	0	0	0	0	0	4.72E-11	3.10E-16	0.00E +00	2.54E-14	-1.13E-10
35	Acidification terrestrial and freshwater [Mole of H+ eq.]	3.41E-03	3.86E-05	7.38E-05	0	0	0	0	0	0	0	2.75E-05	3.03E-06	0.00E +00	7.09E-05	-2.82E-05
	Eutrophication freshwater [kg P eq.]	4.49E-05	1.30E-07	1.03E-06	0	0	0	0	0	0	0	9.12E-08	8.70E-09	0.00E +00	2.01E-08	-1.84E-06
	Eutrophication marine [kg N eq.]	5.70E-04	1.29E-05	1.72E-05	0	0	0	0	0	0	0	1.28E-05	1.06E-06	0.00E +00	1.83E-05	-5.00E-06
	Eutrophication terrestrial [Mole of N eq.]	1.29E-02	1.53E-04	2.77E-04	0	0	0	0	0	0	0	1.39E-04	1.24E-05	0.00E +00	2.01E-04	-5.25E-05
	Photochemical ozone formation - human health [kg NMVOC eq.]	1.71E-03	3.33E-05	4.03E-05	0	0	0	0	0	0	0	4.11E-05	2.66E-06	0.00E +00	5.53E-05	-2.35E-05
P	Resource use, mineral and metals [kg Sb eq.] ¹	2.57E-05	2.32E-09	5.17E-07	0	0	0	0	0	0	0	1.04E-09	1.58E-10	0.00E +00	4.62E-10	-9.21E-09
	Resource use, energy carriers [MJ] ¹	1.91E+01	4.86E-01	3.98E-01	0	0	0	0	0	0	0	3.88E-02	3.24E-02	0.00E +00	1.33E-01	-1.64E-01
(3)	Water deprivation potential [m³ world equiv.] ¹	2.23E-01	4.12E-04	5.34E-03	0	0	0	0	0	0	0	1.31E-04	2.88E-05	0.00E +00	1.10E-03	-2.24E-03

¹ The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator



Resources Use

		PRODUCT STAGE	CONSTR ST <i>I</i>				US	E STA	\GE				END OF LI	BENEFITS AND LOADS BEYOND THE LIFE CYCLE		
Res	ources Use indicators	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
*	Use of renewable primary energy (PERE) [MJ] ²	3.29E+00	3.44E-02	6.71E-02	0	0	0	0	0	0	0	2.22E -04	2.36E-03	0.00E +00	2.17E-02	-6.61E-03
*	Primary energy resources used as raw materials (PERM) [MJ] ²	5.18E-01	0.00E+00	-3.73E-01	0	0	0	0	0	0	0	0.00E +00	0.00E+00	0.00E +00	0.00E+00	0.00E+00
*	Total use of renewable primary energy resources (PERT) [MJ] ²	3.81E+00	3.44E-02	-3.06E-01	0	0	0	0	0	0	0	2.22E -04	2.36E-03	0.00E +00	2.17E-02	-6.61E-03
O	Use of non-renewable primary energy (PENRE) [MJ] ²	1.80E+01	4.87E-01	3.76E-01	0	0	0	0	0	0	0	3.88E -02	3.25E-02	0.00E +00	1.33E-01	-1.64E-01
O	Non-renewable primary energy resources used as raw materials (PENRM) [MJ] ²	1.44E+00	0.00E+00	-1.13E-01	0	0	0	0	0	0	0	0.00E +00	0.00E+00	0.00E +00	0.00E+00	0.00E+00
O	Total use of non-renewable primary energy resources (PENRT) [MJ] ²	1.94E+01	4.87E-01	2.63E-01	0	0	0	0	0	0	0	3.88E -02	3.25E-02	0.00E +00	1.33E-01	-1.64E-01
%	Input of secondary material (SM) [kg]	2.98E-01	0.00E+00	5.97E-03	0	0	0	0	0	0	0	0.00E +00	0.00E+00	0.00E +00	0.00E+00	0.00E+00
*	Use of renewable secondary fuels (RSF) [MJ]	5.03E-29	0.00E+00	1.01E-30	0	0	0	0	0	0	0	0.00E +00	0.00E+00	0.00E +00	0.00E+00	0.00E+00
U	Use of non-renewable secondary fuels (NRSF) [MJ]	5.91E-28	0.00E+00	1.18E-29	0	0	0	0	0	0	0	0.00E +00	0.00E+00	0.00E +00	0.00E+00	0.00E+00
0	Use of net fresh water (FW) [m3]	6.95E-03	3.79E-05	1.60E-04	0	0	0	0	0	0	0	3.05E -06	2.58E-06	0.00E +00	3.36E-05	-5.21E-05

² From EPD International Construction Product PCR 1.3.2 (Annex 3). The option B was reatined to calculate the primary energy use indicators.



Waste Category & Output flows

		PRODUCT STAGE		RUCTION AGE			U	ISE S	STAG	E			BENEFITS AND LOADS BEYOND THE LIFE CYCLE			
	Waste Category & Output Flows	A1/A2/A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Hazardous waste disposed (HWD) [kg]	5.62E-06	1.80E-12	1.53E-07	0	0	0	0	0	0	0	2.62E-07	1.01E-13	0.00E+00	2.90E-12	-2.17E-07
(V)	Non-hazardous waste disposed (NHWD) [kg]	1.76E-01	7.03E-05	2.63E-02	0	0	0	0	0	0	0	2.40E-04	4.96E-06	0.00E+00	6.66E-01	-2.84E-03
₩ W	Radioactive waste disposed (RWD) [kg]	3.35E-04	6.30E-07	6.77E-06	0	0	0	0	0	0	0	4.26E-09	6.09E-08	0.00E+00	1.51E-06	-1.52E-07
(a)	Components for re-use (CRU) [kg]	0.00E+00	0.00E+00	2.55E-02	0	0	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(a)	Materials for Recycling (MFR) [kg]	1.97E-03	0.00E+00	3.22E-03	0	0	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Material for Energy Recovery (MER) [kg]	0.00E+00	0.00E+00	2.26E-03	0	0	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	Exported electrical energy (EEE) [MJ]	0.00E+00	0.00E+00	1.49E-02	0	0	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(3)	Exported thermal energy (EET) [MJ]	0.00E+00	0.00E+00	2.64E-02	0	0	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



Additional voluntary indicators from EN 15804

	PRODUCT STAGE	CONSTR ST <i>A</i>				USE	E STA	\GE			EI	BENEFITS AND LOADS BEYOND THE LIFE CYCLE			
Environmental indicators	A1/A2/A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
GWP-GHG [kg CO2 eq.] ³	1.18E+00	3.56E-02	3.31E-02	0	0	0	0	0	0	0	2.97E-03	2.42E-03	0.0 0E +00	9.93E-03	-7.35E-03

Information on biogenic carbon content

		PRODUCT STAGE
Bioge	nic Carbon Content	A1 / A2 / A3
(Biogenic carbon content in product [kg]	0.00E+00
9	Biogenic carbon content in packaging [kg]	1.41E-02

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

The packaging biogenic carbon is quantified due to wooden pallets production.



³ 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 CO2 is set to zero.

Additional information:

Influence of thicknesses

This EPD® covers the 50 mm thickness product **Isover DOMO PLUS TWIN**.

All the results of this EPD refer to the reference thickness of 50 mm with a value of $R=1.3 \text{ m}^{2*}\text{K/W}$.

Product **Isover DOMO PLUS** it is available in a range of thicknesses between 50 mm and 100 mm. A multiplication factor can be applied to obtain the environmental performance of every thickness.

To obtain the environmental performance associated with every specific thickness, the results expressed in this EPD® must be multiplied by its corresponding multiplication factor. The calculation of the conversion factor is based on the GWP-GHG indicator for A1-A3.

PRODUCT NAME	PRODUCT THICKNESS (MM)	THERMAL RESISTANCE (m²k/W)	CONVERSION FACTOR
Isover DOMO PLUS TWIN 10/5	50	1.25	1
Isover DOMO PLUS TWIN 12/6	60	1.55	1.2
Isover DOMO PLUS TWIN 16/8	80	2.10	1.6
Isover DOMO PLUS 10	100	2.60	2
Isover DOMO PLUS 12	120	3.15	2.4
Isover DOMO PLUS 14	140	3.65	2.8
Isover DOMO PLUS 15	150	3.90	3
Isover DOMO PLUS 16	160	4.20	3.2
Isover DOMO PLUS 18	180	4.70	3.6
Isover DOMO PLUS 20	200	5.25	4



Electricity information

TYPE OF INFORMATION	DESCRIPTION									
Location	Representative Products Roman	_	purchased	by Saint	-Gobain Construction					
	Share of energy									
	Coal	17.05%								
	Natural gas Nuclear	20.09%								
Geographical		27.40%								
representativeness description	Wind, solar, etc.	17.20%								
	Biofuels and waste 0.06%									
	Oil	0.08%								
	Biomass	0.75%								
Reference year	2022									
Type of dataset	set Cradle to gate from Gabi and ecoinvent databases									
Source	ce European Residual Mixes 2022 Association of Issuing Bodies									
CO ₂ emission kg CO ₂ eq. / kWh	0.271kg of CO2	eq/kWh								
CO2 enhission kg CO2 eq. / kwii	Climate Change	- fossil indicato	or							

The factory based in ISOVER, Ploiesti uses electricity with Guarantee of Origin certificate (GO's).

Hence, the electricity mix considered for the manufacturing of the studied product is modelled according to the electricity mix described in the Guarantee of Origin certificate. The amount of electricity purchased with GO's covers 67% of the electricity consumption on the manufacturing site.

TYPE OF	DESCRIPTION								
Location	Electricity purchased by Saint-Gobain								
Share of electricity covered by Guarantee of Origin	67% of the energy consumption is covered by the GO								
Energy sources for electricity	. 02.2500/								
Type of dataset	Cradle to gate from GaBi and ecoinvent databases								
Source	Cradle to gate from Gabi and ecoinvent databases Guarantee of Origin certificate: https://cdn.hidroelectrica.ro/cdn/eticheta_2023.png - 5 months https://www.omvpetrom.com/services/downloads/00/omvpetrom.com/1522256580391/omv-petrom-sa-eticheta-verde-en-el-2023.pdf - 3 months								
CO2 emission kg CO2 eq/kWh - Climate Change - fossil indicator									



Data quality

Inventory data quality is judged by geographical, temporal, and technological representativeness. To cover these requirements and to ensure reliable results, first-hand industry data crossed with LCA background datasets were used. The data was collected from internal records and reporting documents from Saint-Gobain Construction Products Romania, ISOVER.

The average score is calculated per category and the scores per category are as follows:

GEOGRAPHICAL RATING	TECHNOLOGY RATING	TEMPORAL RATING			
2.2	2.0	1.0			
Good	Good	Very Good			



Environmental impacts according to EN 15804:2012 + A1

The following tables presents results for 1 m^2 of mineral wool with thermal resistance of 1.25 m^2 .K.W⁻¹ for a thickness of 50 mm.

	CONSTR						END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING				
Environmental impacts	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
Global Warming Potential (GWP) [kg CO2eq.]	1.15E+00	3.52E- 02	3.17E -02	0	0	0	0	0	0	0	2.97 E-03	2.39E- 03	0.0 0E +0 0	9.84E- 03	-7.36E-03
Ozone depletion (ODP) [kg CFC 11eq.]	-2.48E- 02	9.33E- 05	4.02E -02	0	0	0	0	0	0	0	3.75 E-07	6.40E- 06	0.0 0E +0 0	3.50E- 03	1.95E-05
Acidification potential (AP) [kg SO2eq.]	4.14E-04	3.31E- 04	1.07E -05	0	0	0	0	0	0	0	3.34 E-07	2.20E- 05	0.0 0E +0 0	3.10E- 05	-6.83E-06
Eutrophication potential (EP) [kg (PO4)3-eq.]	1.14E-07	3.13E- 15	2.29E -09	0	0	0	0	0	0	0	4.72 E-11	3.10E- 16	0.0 0E +0 0	2.54E- 14	-1.13E-10
Photochemical ozone creation (POCP) - [kg Ethylene eq.]	3.41E-03	3.86E- 05	7.38E -05	0	0	0	0	0	0	0	2.75 E-05	3.03E- 06	0.0 0E +0 0	7.09E- 05	-2.82E-05
Abiotic depletion potential for non-fossil resources (ADP-elements) [kg Sb eq.]	4.49E-05	1.30E- 07	1.03E -06	0	0	0	0	0	0	0	9.12 E-08	8.70E- 09	0.0 0E +0 0	2.01E- 08	-1.84E-06
Abiotic depletion potential for fossil resources (ADP- fossil fuels) [MJ]	5.70E-04	1.29E- 05	1.72E -05	0	0	0	0	0	0	0	1.28 E-05	1.06E- 06	0.0 0E +0 0	1.83E- 05	-5.00E-06



References

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- 4. EPD International. General Program Instructions (GPI) for the International EPD® System (version 4.0) www.environdec.com.
- 5. The International EPD System PCR 2019:14 Construction products and Construction services. Version 1.3.2
- 6. European Chemical Agency, Candidate List of substances of very high concern for Authorization. https://echa.europa.eu/candidate-list-table
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