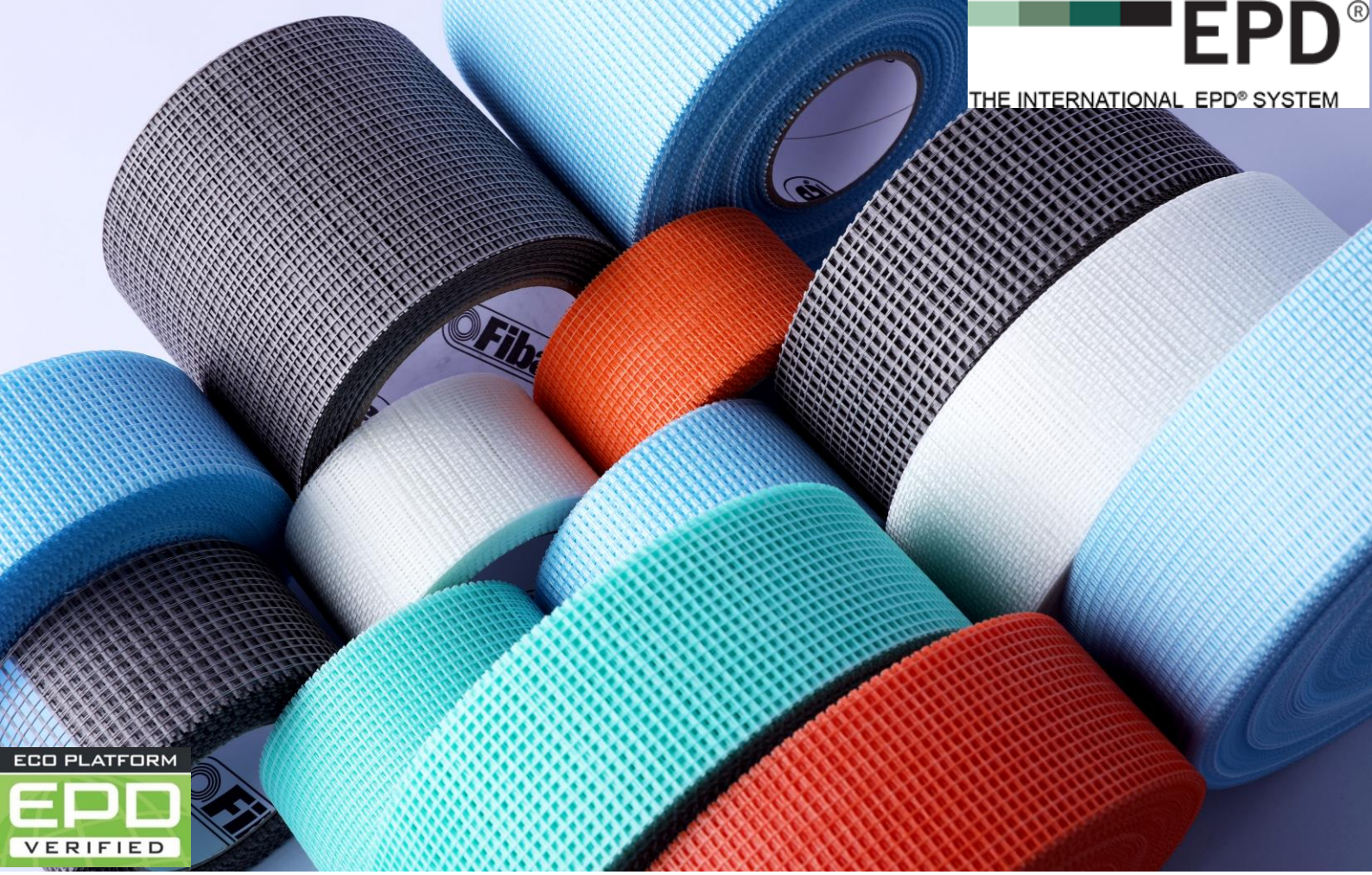


ENVIRONMENTAL PRODUCT DECLARATION

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

FibaTape® Drywall tape

Classic (Blue), Standard (White), Mold-X (Green) and Xtreme (Orange)

from: Saint-Gobain ADFORS CZ, s.r.o.

Version 2
Publication date: 2024-04-04
Validity: 5 years
Valid until: 2029-04-03
Date of revision: 2025-06-04

Scope of the EPD®: Europe

Programme: The International EPD® System, www.environdec.com

Programme operator: EPD International AB

Production plant: Saint-Gobain ADFORS CZ, s.r.o; Sokolovská 106 570 01 Litomyšl; The Czech Republic

EPD of multiple products, based on a representative product

Registration number The International EPD® System: S-P-13077

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

General information

Company information

Manufacturer: Saint-Gobain ADFORS CZ, s.r.o. - Sokolovská 106, 570 01 Litomyšl, (The Czech Republic). https://eu.adfors.com/

Production plant: Sokolovská 106, 570 01 Litomyšl, (The Czech Republic)

Framework: The LCA is based on 2022 production data for one site in Czech Republic.

Geographical scope : Europe

UN CPC CODE: 26890, Woven fabrics (including narrow fabrics) of glass fibres

Owner of the declaration: Saint-Gobain ADFORS CZ, s.r.o.

Product name and manufacturer represented: Woven fabrics (including narrow fabrics) of glass fibres. Saint-Gobain ADFORS CZ, s.r.o.

This EPD covers Cradle to gate with options and optional modules (A+B+C+D) as defined in EN 15804:2012 + A2:2019/AC:2021

EPD® prepared by: Kršková Jana (SAINT-GOBAIN ADFORS CZ, s.r.o., (Jana.Krskova@saint-gobain.com) & MARTIN, Joffrey (Saint-Gobain LCA central team, Joffrey.martin@saint-gobain.com))

The intended use of this EPD is for B2B communication.

EPD® registration number: S-P-13077

Declaration issued: 2024-04-04**, valid until:** 2029-04-03

Demonstration of verification: an independent verification of the declaration was made, according to EN ISO 14025:2010. This verification was external and conducted by a third party, based on the PCR mentioned above (see information below).

Programme	The international EPD® System		
Adress:	EPD® International AB Box 210 60 SE-100 31 Stockholm Sweden		
Website:	www.environdec.com	**E-mail:**	info@environdec.com

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 1.3.3
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.
Independent third-party verification of the declaration and data, according to ISO 14025:2006: ☐ EPD process certification ☒ EPD verification
LCA Accountability: Joffrey MARTIN
Independent third-party verification of the declaration and data, according to ISO 14025:2006: ☒ EPD verification by individual verifier
Third party verifier : Marcel Gomez Marcel Gómez Consultoria Ambiental Tlf 0034 630 64 35 93 - info@marcelgomez.com Approved by: The International EPD® System
Procedure for follow-up of data during EPD validity involves third part verifier: ☒ Yes ☐ No

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

Product Information

Product information and description of use

ADFORS has a very diverse set of processing technologies and materials. Leveraging on this expertise, we can provide innovative solutions that combine different products (e.g., non-woven, laid scrim, woven fabrics) and materials (e.g., glass, polyester) resulting into unique benefits and features that can be adapted to each application.

Glass fibers are knitted to obtain a greige. The greige then goes through a binder applicator where a liquid binder is applied and then cured. Once dried, glue is applied on one side of the Fibatape®. The material is then winded on a paper tube and finally packed according to customer specification.

The FibaTape® range of drywall joint tapes and crack repair products offers strength, flexibility, easy installation and considerable cost savings. FibaTape® provides faster jointing of plasterboards with a 30% time saving compared to using standard paper tape. Its open fiberglass mesh eliminates blisters and bubbles, while also increasing joint strength. The tapes are easy to cut. Its application makes it the ideal solution for ceilings and high or more technically demanding areas.

FibaTape® joint tapes are CE certified.

Technical characteristics for product

Essential characteristics		Performance	Harmonized technical specification
Tensile strength (min)	Warp	400	EAD070002-00-0505:2016
	Weft	800	
Weight (g/m²) ± 10%		60	
Deposit per unit (%) ± 10%		38	
Thickness (mm)		0.26	
Settings (ends/ 10 cm)	Warp	35.4	
	Weft	35.4	

Product	Description
FibaTape® Classic (blue)	Classic FibaTape® under Adfors brand
Drywall tape standard (white)	Standard drywall tape un-branded/private brand
FibaTape® Mold-X (green)	FibaTape® with antimicrobial coating for added protection against mould and mildew
FibaTape® Xtreme (orange)	FibaTape® designed to provide a secure grip when applying in environments with extreme temperature and humidity

The FibaTape® Classic is considered to be the representative product used in this EPD. This product is the best seller of the brand, and all results are displayed for it.

Declaration of the main product components and/or materials

Description of the main components and/or materials for 1 m^2 of FibaTape® Classic, Standard, Mold-X and Xtreme:

Product components	Weight %	Post-consumer recycled material (Weight %)	Biogenic Material (Weight % and kgC/DU)
Greige	60-80%	0%	4.51E-06
Binder	10-20%	0%	0%
Glue	10-20%	0%	0%
Product	**Weight (kg/m^2)**		
FibaTape®	**0.060**	**0**	4.51E-06
Packaging materials	**Weight (kg/m^2)**	**Weight%**	**Weight Biogenic carbon (kg C/DU)**
Paper tube	3.43E-03	6%	1.47E-03
Paper label	7.19E-04	1%	3.09E-04
LDPE film	5.79E-04	1%	0.00E+00
Wooden pallet	1.11E-02	19%	4.55E-03
Cardboard	3.61E-03	6%	1.55E-03

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 gate with options and optional modules (A+B+C+D)
Declared Unit	1 m^2 of jointing tape to reinforce and conceal the joints between plasterboards, over a service life of 50 years
System boundaries	Mandatory stages = A1-A3; C1-C4 and D; Optional stages = A4-A5; B1-B7
Service life (SL)	The Reference Service Life (RSL) of the FibaTape® product is 50 years. This value is the one commonly used in the main application for FibaTape® which is plasterboard jointing.
Cut-off rules	The LCI data shall include, in accordance with EN 15804, a minimum of 95% of the total input flows (mass and energy) per module (e.g. A1-A3, A4-A5, B1-B5, B6-B7, C1-C4 and module D). In addition, this PCR applies the extended cut-off rule of ISO 21930, which states at least 95% of the environmental impact per module. Plausibility assessments and expert judgement may be used to demonstrate compliance with these criteria Long-term emissions have been included.
Allocations	Allocation has been avoided when possible. The polluter pays, and modularity principles have been followed
Geographical coverage and period	Data included is collected from 1 production site in Litomysl (The Czech Republic) Production year from 2022
Background data source	Ecoinvent v3.9.1 (2023) and GaBi 2023.2
Software	GaBi 10.7.1

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804:2012+A2:2019/AC:2021, 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 characterisation 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.

LCA scope

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

	PRODUCT STAGE			CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				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	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	CZ			EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27	EU27
Share of specific data	>90% GWP- GHG																
Variation products	<2% GWP-GHG																
Variation sites	0%																

A1-A3, Product stage

Description of the stage: the product stage of the FibaTape® products is subdivided into 3 modules A1, A2 and A3 respectively “Raw materials supply”, “Transport to the manufacturer” and “Manufacturing”.

The aggregation of the modules A1, A2 and A3 is mandatory by the EN 15804:2012+A2:2019/AC:2021 standard. This rule is applied in this EPD.

Description of the scenarios and other additional technical information:

A1, Raw materials supply

This module considers the extraction and processing of all raw materials and energy which occur upstream to the studied manufacturing process. Specifically, the raw material supply covers production of binder and glue components, and glass yarn.

A2, Transport to the manufacturer

The raw materials are transported to the manufacturing site. In our case, all the raw materials are transported by truck.

A3, Manufacturing

This module includes the manufacturing of the product and packaging. Specifically, it covers the manufacturing of FibaTape® and the packaging.

The production of FibaTape® can be divided in 4 steps:

- Knitting – process where the greige is produced
- Coating – the greige is coated to give it the desired physical properties. It is at this stage that the product is/can be colored since the colorant is added to the binder.
- The coated Fibatape® is then dried, and glue is applied on one side
- Formatting and packaging – the FibaTape® are formatted (rolled and cut as the desired size) and wrapped.

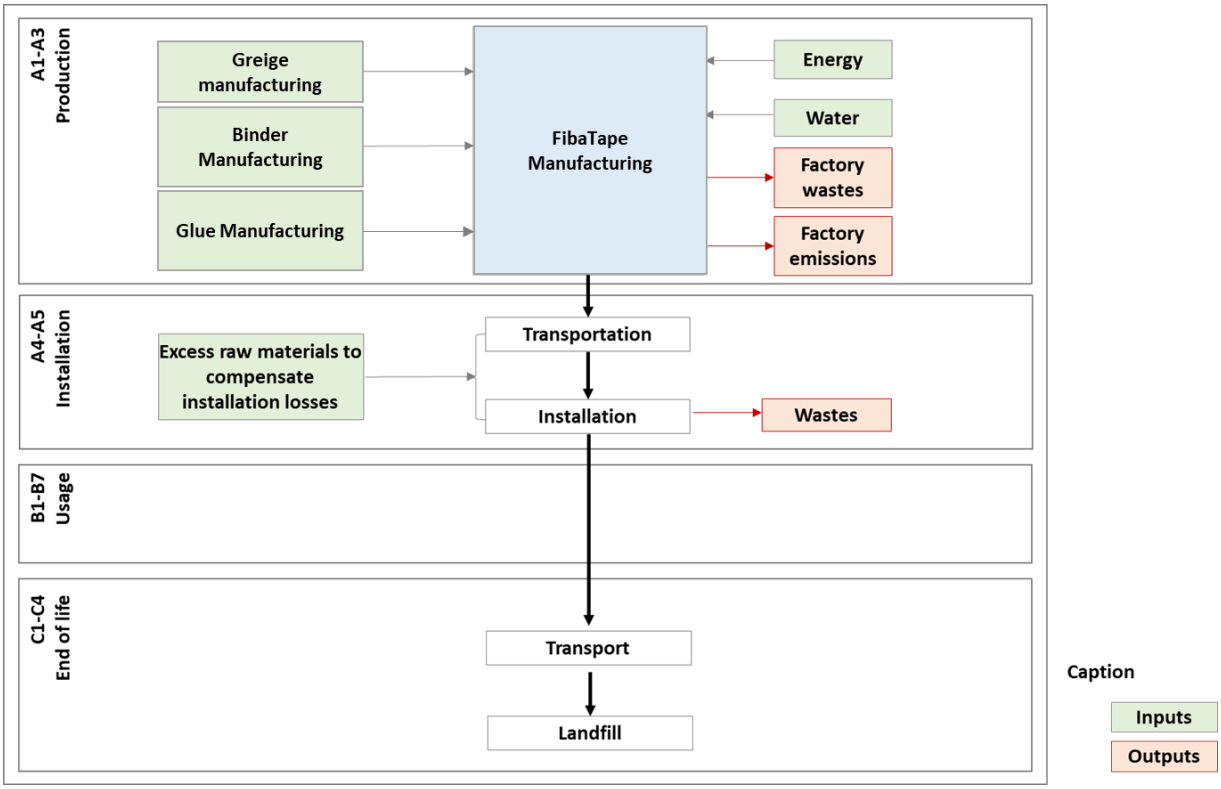
The EPD represents sales of product sold in Europe. The manufacturing site Litomysl is based in Czech Republic and use 100% nuclear electricity.

Type of information	Description
Location	Representative of Electricity purchased by Saint-Gobain ADFORS CZ, s.r.o.
Geographical representativeness description	Nuclear 100% from Czech Republic
Reference year	2022
Type of dataset	CZ Electricity from nuclear
Source	Gabi database 2023.2
CO2 emission kg CO2 eq. / kWh	4.7E-3 kgCO2/kWh

This module also includes the emissions and wastes generated during manufacturing. Waste produce during manufacturing represents around 7% of total production in 2022.

Wastes leaving the plant are sent to landfill and are transported over 50 km.

Manufacturing process flow diagram



A4-A5, Construction process stage

Description of the stage: the construction process is divided into 2 modules: A4, transport to the customer site and A5, installation. Since there is a product loss during installation (5%). The quantification of raw material compensation (A5) and its transport to the customer site (A4) are considered.

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

	PARAMETER	VALUE
Truck	Fuel type and consumption of vehicle or vehicle type used for transport e.g., long distance truck, boat, etc.	Average truck trailer (27 t payload) with a real 24 t payload, diesel consumption 38 liters for 100 km
	Distance	1076 km. Average distance between production site and customer facilities
	Capacity utilisation (including empty returns)	Use of GaBi data, default: 85% of mass capacity 30% empty returns
	Bulk density of transported products	230 kg/m3 (weight of 1m² of FibaTape®/ thickness in meter)
	Volume capacity utilisation factor	Coefficient < 1
Boat	Fuel type and consumption of vehicle or vehicle type used for transport e.g., long distance truck, boat, etc.	GLO: Container ship, 5.000 to 200.000 dwt payload capacity, deep sea Sphera <u-so>
	Distance	35 km.
	Capacity utilisation (including empty returns)	Use of GaBi data, default: 85% of mass capacity 30% empty returns
	Bulk density of transported products	230 kg/m3 (weight of 1m² of FibaTape®/ thickness in meter)
	Volume capacity utilisation factor	Coefficient < 1

A5, Installation in the building: this module includes:

Since the applications of the reported product is done manually and glue is already present on the product, no additional accessory or energy were considered for the installation phase of the product.

PARAMETER	VALUE/DESCRIPTION
Quantity of FibaTape® for 1 m² of product	0.06 kg/m² (Glass yarn + Binder + Glue)
Thickness	0.26 mm
Auxiliary inputs for the installation	The installation is done manually, and glue is already applied on the product. No other input is needed for installation
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	5%
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)	Wooden pallet: 1.11E-02 kg/m² 5% landfill and 95% reused Low density polyethylene film (LDPE): 5.79E-04 kg/m² 100% landfill Paper (label): 7.19E-04 kg/m² 100% landfill Paper tube: 3.43E-03 kg/m² 100% landfill Cardboard: 3.61E-03 kg/m² 100% landfill 5% waste of FibaTape® during use equivalent to 3 g/m² to landfill The distances used for the landfill and recycling center are 50 km

B1-B7, Use stage (excluding potential savings)

Description of the stage: 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

Description of the scenarios and additional technical information:

As no maintenance, repair, replacement, and refurbishment are required after use of FibaTape® by customer, no impact has been accounted for in this phase.

C1-C4, End of Life Stage

Description of the stage: this stage includes the next modules:

C1, Deconstruction, demolition

The de-construction and/or dismantling of FibaTape® products take part of the demolition of the entire building.

C2, Transport to waste processing

The model use for the transportation (see A4, transportation to the customer site) is applied.

C3, Waste processing for reuse, recovery and/or recycling

The product is landfilled without reuse, recovery, or recycling.

C4, Disposal

The FibaTape® is assumed to be 100% landfilled.

End of life:

Parameter	Value/description
Collection process specified by type	The entire product is collected alongside any mixed construction waste and sent to landfill 0.06 kg of FibaTape® (collected with mixed construction waste)
Recovery system specified by type	There is no known recovery, recycling, or reuse of the product once it has reached its end-of-life phase.
Disposal specified by type	The product alongside the mixed construction waste from demolishing will go to landfill 0.06 kg of FibaTape® are landfilled
Assumptions for scenario development (e.g. transportation)	The product alongside the mixed construction waste from demolishing will go to landfill The waste going to landfill will be transported by truck with 27 t payload, using diesel as a fuel consuming 38 liters per 100km Distance covered is 50 km

D, Reuse/recovery/recycling potential

This section includes benefits linked to product waste and packaging waste.
100% of wastes are landfilled. There is no reuse, nor recovery, nor recycling of this product. Hence, no recycling benefits are reported on stage D.

LCA results

As specified in EN 15804:2012+A2:2019/AC:2021 and the PCR 2019:14 Construction Products, version 1.3.3. 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 (Production data of 2022). Characterisation factors EN 15804:2012+A2:2019/AC:2021 based on EF 3.1.

According to the EN 15804:2012+A2:2019/AC:2021 standard, the LCIA results are relative expressions translating impacts into environmental indicators (midpoint impact categories). Thus, 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.

All the results refer to 1 m² of a FibaTape® Classic (weight of 0.06 kg/m²).

Disclaimer 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 following indicators:

- Resource use, mineral and metals [kg Sb eq.]
- Resource use, energy carriers [MJ]
- Water deprivation potential [m³ world equiv.]

Disclaimer 2: The following optional indicators are not declared:

- Ecotoxicity freshwater [CTUe]
- Particulate Matter emissions [Disease incidence]
- Cancer human health effects [CTUh]
- Ionizing radiation - human health [kBq U235 eq.]
- Non-cancer human health effects [CTUh]
- Land Use [Pt]

Disclaimer 3: This EPD including module C, we strongly discourage using the results of modules A1-A3 without considering the results of module C.

Environmental Impacts

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
	Product stage	**Construction stage**		**Use stage**							**End of life stage**				**Reuse, Recovery Recycling**
Climate Change [kg CO_2 eq.]	1.44E-01	4.69E-03	7.92E-02	0	0	0	0	0	0	0	2.39E-04	2.12E-04	0	2.42E-03	0
Climate Change (fossil) [kg CO2 eq.]	1.73E-01	4.64E-03	8.91E-03	0	0	0	0	0	0	0	2.39E-04	2.10E-04	0	2.38E-03	0
Climate Change (biogenic) [kg CO_2 eq.]	-2.93E-02	1.08E-05	7.03E-02	0	0	0	0	0	0	0	8.02E-08	4.89E-07	0	3.70E-05	0
Climate Change (land use change) [kg CO_2 eq.]	1.93E-04	4.34E-05	1.20E-05	0	0	0	0	0	0	0	2.39E-08	1.98E-06	0	2.37E-06	0
Ozone depletion [kg CFC-11 eq.]	9.41E-08	4.12E-16	4.70E-09	0	0	0	0	0	0	0	5.15E-11	1.87E-17	0	2.63E-15	0
Acidification [Mole of H+ eq.]	4.18E-04	6.33E-06	2.12E-05	0	0	0	0	0	0	0	2.50E-06	2.46E-07	0	9.32E-06	0
Eutrophication aquatic freshwater [kg P eq.]	1.27E-05	1.71E-08	6.34E-07	0	0	0	0	0	0	0	7.47E-09	7.79E-10	0	3.66E-07	0
Eutrophication aquatic marine [kg N eq.]	1.15E-04	2.08E-06	5.88E-06	0	0	0	0	0	0	0	1.11E-06	8.48E-08	0	2.19E-06	0
Eutrophication terrestrial [Mole of N eq.]	1.08E-03	2.43E-05	5.55E-05	0	0	0	0	0	0	0	1.22E-05	1.00E-06	0	2.40E-05	0
Photochemical ozone formation [kg NMVOC eq.]	3.65E-04	5.32E-06	1.86E-05	0	0	0	0	0	0	0	3.34E-06	2.14E-07	0	6.87E-06	0
Depletion of abiotic resources - mineral and metals [kg Sb eq.][1]	3.18E-07	3.05E-10	1.59E-08	0	0	0	0	0	0	0	1.24E-10	1.39E-11	0	1.80E-10	0
Depletion of abiotic resources – fossil fuels [MJ][1]	3.88E+00	6.40E-02	1.97E-01	0	0	0	0	0	0	0	3.29E-03	2.90E-03	0	3.42E-02	0
Water use [m³ world equiv.][1]	4.70E-02	5.40E-05	2.35E-03	0	0	0	0	0	0	0	8.10E-06	2.46E-06	0	3.22E-05	0

[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

Resources Use indicators	Product stage	Construction stage		Use stage							End of life stage				D Reuse, recovery, recycling
	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 excluding renewable primary energy resources used as raw materials (PERE) [MJ]	2.81E-01	4.51E-03	1.43E-02	0	0	0	0	0	0	0	1.86E-05	2.06E-04	0	3.13E-03	0
Use of renewable primary energy resources used as raw materials (PERM) [MJ]	2.88E-01	0	1.44E-02	0	0	0	0	0	0	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT) [MJ]	5.69E-01	4.51E-03	2.87E-02	0	0	0	0	0	0	0	1.86E-05	2.06E-04	0	3.13E-03	0
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (PENRE) [MJ]	3.88E+00	6.42E-02	1.98E-01	0	0	0	0	0	0	0	3.29E-03	2.91E-03	0	3.42E-02	0
Non-renewable primary energy resources used as raw materials (PENRM) [MJ]	1.94E-01	0	9.74E-03	0	0	0	0	0	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT) [MJ]	4.08E+00	6.42E-02	2.07E-01	0	0	0	0	0	0	0	3.29E-03	2.91E-03	0	3.42E-02	0
Use of secondary material (SM) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of renewable secondary fuels (RSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of non-renewable secondary fuels (NRSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net use of fresh water (FW) [m3]	1.30E-03	4.97E-06	6.53E-05	0	0	0	0	0	0	0	1.89E-07	2.26E-07	0	1.98E-06	0

Waste Category & Output flows

Waste Category & Output Flows		Product stage	Construction stage		Use stage							End of life stage				D Reuse, recovery, recycling
		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]	1.19E-05	2.37E-13	5.96E-07	0	0	0	0	0	0	0	0	1.08E-14	0	1.03E-10	0
	Non-hazardous waste disposed (NHWD) [kg]	6.99E-03	9.24E-06	3.95E-04	0	0	0	0	0	0	0	0	4.20E-07	0	5.99E-02	0
	Radioactive waste disposed (RWD) [kg]	9.00E-05	8.30E-08	4.50E-06	0	0	0	0	0	0	0	0	3.76E-09	0	4.14E-07	0
	Components for re-use (CRU) [kg]	0	0	6.34E-04	0	0	0	0	0	0	0	0	0	0	0	0
	Materials for Recycling (MFR) [kg]	1.80E-04	0	9.00E-06	0	0	0	0	0	0	0	0	0	0	0	0
	Materials for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Exported energy (EE) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Environmental impacts according to EN 15804:2012 + A1

The following tables presents results of a FibaTape® Classic (0.06 kg/m²) according to EN 15804 +A1.

		Product stage	Construction stage		Use stage							End of life stage				Reuse, recovery, recycling
		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
Environmental impacts	Global Warming Potential (GWP) [kg CO_2eq.]	1.67E-01	4.63E-03	8.74E-03	0	0	0	0	0	0	0	2.38E-04	2.10E-04	0	2.33E-03	0
	Ozone depletion (ODP) [kg CFC 11eq.]	6.51E-08	4.85E-16	3.26E-09	0	0	0	0	0	0	0	4.08E-11	2.20E-17	0	3.10E-15	0
	Acidification potential (AP) [kg SO_2eq.]	3.33E-04	4.65E-06	1.69E-05	0	0	0	0	0	0	0	1.79E-06	1.78E-07	0	7.52E-06	0
	Eutrophication potential (EP) [kg $(PO_4)_3$-eq.]	9.50E-05	9.16E-07	4.81E-06	0	0	0	0	0	0	0	4.27E-07	3.84E-08	0	5.56E-06	0
	Photochemical ozone creation (POCP) - [kg Ethylene eq.]	4.40E-05	-2.72E-07	2.20E-06	0	0	0	0	0	0	0	1.84E-07	-1.43E-08	0	6.47E-07	0
	Abiotic depletion potential for non-fossil resources (ADP-elements) [kg Sb eq.]	3.18E-07	3.03E-10	1.60E-08	0	0	0	0	0	0	0	1.24E-10	1.38E-11	0	1.82E-10	0
	Abiotic depletion potential for fossil resources (ADP-fossil fuels) [MJ]	3.56E+00	6.32E-02	1.81E-01	0	0	0	0	0	0	0	3.27E-03	2.87E-03	0	3.30E-02	0

Additional mandatory indicators from EN 15804

	Product stage	Construction stage		Use stage							End of life stage				Reuse, Recovery Recycling
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
GWP-GHG [kg CO_2 eq.][2]	**1.69E-01**	**4.70E-03**	**8.87E-03**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2.39E-04**	**2.13E-04**	**0**	**2.38E-03**	**0**

[2] The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804+A2:2019/AC:2021.

Information on biogenic carbon content

	Biogenic Carbon Content	Product stage A1 / A2 / A3
	Biogenic carbon content in product [kg]	4.51E-06
	Biogenic carbon content in packaging [kg]	7.99E-03

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO_2.

The biogenic carbon content for packaging is quantified for the wooden pallet, for the paper label and the paper cores.
The biogenic carbon content for product is quantified for some of the raw materials used in the binder.

Variation between the different products

This is an EPD of multiple products, based on a representative product. Hence, the variation of impact between products has to be displayed for all environmental indicator where the variation is above 10%.
The only indicators for which the variation is above 10% is “Depletion of abiotic resources - mineral and metals [kg Sb eq.]”. The results for the 4 products covered by this EPD on this indicator are displayed for module A1-A3 in the following table.

Product	Climate Change [kg CO2 eq.]	Resource use, mineral and metals [kg Sb eq.]
FibaTape® Classic (blue)	1.44E-01	3.18E-07
FibaTape® standard (white)	1.45E-01	3.11E-07
FibaTape® Mold-X (green)	1.48E-01	4.02E-07
FibaTape® Xtreme (orange)	1.44E-01	3.50E-07
Deviation between min and max	3%	30%

Appendix:

Electricity information

TYPE OF INFORMATION	DESCRIPTION
Location	Residual nuclear electricity mix on the market purchased by Saint-Gobain ADFORS CZ, s.r.o. CZ, s.r.o
Geographical representativeness description	Nuclear 100 %
Reference year	2022 AIB European Residual Mix report
Type of data set	Cradle to gate from Thinkstep database Dataset: CZ Electricity grid mix ts
Source	AIB European Residual Mix report Background data: Gabi database 2022: dataset valid until 2024
Emissions kg CO_2 eq. / kWh	4.69E-03 kg CO2 eq. / kWh

The Guarantees of Origin is valid for at least the upcoming year and ADFORS makes a commitment to buy Guarantees of Origin for the full validity period of the EPD. If the electricity mix changes during the EPD validity in a way that has an impact on the results or other contents of the EPD, the rules of the GPI will be followed.

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 ADFORS CZ, s.r.o.. After evaluating the inventory, according to the defined ranking in the LCA report, the assessment reflects fair inventory data quality for the geographical representation, fair for technological and good for temporal representation.

Version history

Version 2 includes editorial modifications.

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