ENVIRONMENTAL PRODUCT DECLARATION

In accordance with UNE-EN ISO 14025:2010, UNE-EN 15804: EN 15804:2012 + A2:2019 and PCR 2019:14 Construction products version 1.2.1

Program:	**The International EPD® System, www.environdec.com**
Program Operator:	**EPD International AB**
EPD registration number:	**S-P-07301**
Publication date:	**2022-11-18**
Valid until:	**2027-11-17**

This EPD must provide current information and may be updated if conditions change. Therefore, the indicated validity is subject to its continued registration and publication on ww.environdec.com

ECODRY50
ECODRY80
ECODRY120

Program Information

Program:	**The International EPD® System**
Address	**EPD International AB** **Box 210 60** **SE-100 31 Stockholm** **Sweden**
Website	**www.environdec.com**
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Product category rules (PCR):	**PCR 2019:14 Construction products version 1.2.1** (EN 15804+A2) C-PCR-004 Resilient, textile and laminate floor coverings (EN 16780:2017) Version: 3.0, dated 2017-12-11.

The PCR review was performed by: The Technical Committee of the International EPD® System.
Full list of members available at *www.environdec.com (Members of the Committee were requested to state any potential conflict of interest with the PCR moderator or PCR committee and if so were excused from the review)*
Chair: Claudia A. Peña.
Contact Via *info@environdec.com*

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

☐ EPD process certification ☒ EPD verification

Third party verifier: Verifier accredited by the International EPD® System**.**

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Approved by: The International EPD® System

The procedure for tracking data during the validity of the EPD involves a third-party verifier:

☒ Yes ☐ No

Manufacturer Information:

Owner of the EPD: REVESTECH

Address**:** C/ La Rioja 03006, Alicante, Spain.
Contact: Belén González (belen.gonzalez@revestech.com) /Aida Grau (aida.grau@revestech.com)

Web: www. revestech.es

Development of EPD: **SGS TECNOS S.A.U**

The owner of the EPD presents the exclusive ownership and responsibility of the EPD. EPDs within the same product category, but from different programs may not be comparable. EPD construction products may not be comparable if they do not comply with EN 15804. For more information on comparability, see EN 15804 and ISO 14025.

Overview

Maker: REVESTECH
C/ La Rioja
03006 Alicante
Spain

Company Overview: Revestech is the brand with which the Group Grandchildren of Miguel Martínez Ramírez bets on the future. A family business dedicated to the industrial development of waterproofing systems since 1945. All its systems are characterized by their easy installation, their speed of installation and their quality.

The company has a long history with which it has been able to acquire enough experience to become manufacturers of revolutionary construction systems for the waterproofing of all types of surfaces (terraces, showers, swimming pools, etc.). Positioning itself as a trusted partner of architects, surveyors, builders and installers when solving the different problems of waterproofing, desolidarization, acoustics and drainage, providing a set of comfortable and effective solutions.
In addition, Revestech has the UNE-EN ISO 9001 and 14001 certifications for quality and environment, respectively, and with the CE marking on its waterproofing sheets.
The intended use of this EPD is for B2B communication.

Product Description

Name of the product or family of products covered by this EPD: This Environmental Product Declaration (EPD) describes the environmental impacts corresponding to the application of 1 m² of surface covered by the **sheet line ECODRY®** with thicknesses of 0.52mm, 0.8mm and 1.25mm.

ECODRY 50	
ESPESOR 0,52mm	PESO MEDIO 0,335 kg/m²
ECODRY 80	
ESPESOR 0,80mm	PESO MEDIO 0,625 kg/m²
ECODRY 120	
ESPESOR 1,25mm	PESO MEDIO 0,525 kg/m²

Description of the product and its use:

Eco-responsible sheets for waterproofing under the protection of walkable flat roofs, bathrooms and walls and floors in wet indoor areas. They are composed of a polymeric membrane of high-performance thermoplastic polyolefins CPE (EVA-based Circular Polymer), resulting from the transformation of circular economy raw materials, and extruded on polyester and polypropylene fibers.

Figure 1: ECODRY sheets®.

Technical data and physical characteristics:

ECODRY50				
Characteristics	**Practice**	**Unit**	**Tolerance**	**Value**
Weight	EN1849-2	g/m^2	MDV: -5% and +10%	335
Thickness	EN1849-2	mm	MDV: -5% and +10%	0,52
Water tightness	IN 1928 Mét.B			Come in
Tensile strength	EN 12311-2 Mét.A	N/50mm	MLV L≥450 MLV T≥150	L=450 T=150
Elongation	EN 12311-2 Mét.A	%	MLV L≥25 MLV T≥200	L=25 T=200
Resistance of overlaps (shear)	IN 12317-2	N/50 mm	MLV ≥ 600	600
Impact resistance	IN 12691	mm	MLV T ≥ 200	200
Resistance to static charge	IN 12730 Ét. B	kg	MLV ≥ 20	20
Low temperature foldability	IN 495-5	°C	MLV ≥ -40	-40
Reaction to fire	IN 13501-1	Euroclasses		And
Longitude	IN 1848-2	m	MDV: -0% and +5%	5 and 30
Width	IN 1848-2	m	MDV: -0.5% and +1%	1, 1.2 and 1.5
Visible defects	IN 1850-2			Come in
Rectitude	IN 1848-2	mm	MLV g ≤ 50	50
Flatness	IN 1848-2	mm	MLV p ≤ 10	10
Dimensional stability	IN 1107-02	%	MLV L ≤ -0.2 MLV T ≤ -0.7	L = -0.2 T = -0.7

ECODRY80				
Characteristics	**Practice**	**Unit**	**Tolerance**	**Value**
Weight	EN1849-2	g/m^2	MDV: -5% and +10%	625
Thickness	EN1849-2	mm	MDV: -5% and +10%	0,80
Water tightness	IN 1928 Mét.B			Come in
Tensile strength	EN 12311-2 Mét.A	N/50mm	MLV L≥800 MLV T≥300	L=800 T=300
Elongation	EN 12311-2 Mét.A	%	MLV L≥27 MLV T≥230	L=27 T=230
Resistance of overlaps (shear)	IN 12317-2	N/50 mm	MLV ≥ 770	770
Impact resistance	IN 12691	mm	MLV T ≥ 200	200
Resistance to static charge	IN 12730 Ét. B	kg	MLV ≥ 20	20
Low temperature foldability	IN 495-5	°C	MLV ≥ -40	-40
Reaction to fire	IN 13501-1	Euroclasses		And
Longitude	IN 1848-2	m	MDV: -0% and +5%	5,10,20 and 30
Width	IN 1848-2	m	MDV: -0.5% and +1%	1,5
Visible defects	IN 1850-2			Come in
Rectitude	IN 1848-2	mm	MLV g ≤ 50	50
Flatness	IN 1848-2	mm	MLV p ≤ 10	10
Dimensional stability	IN 1107-02	%	MLV L ≤ -0.2 MLV T ≤ -0.7	L = -0.2 T = -0.5

ECODRY120				
Characteristics	**Practice**	**Unit**	**Tolerance**	**Value**
Weight	EN1849-2	g/m^2	MDV: -5% and +10%	525
Thickness	EN1849-2	mm	MDV: -5% and +10%	1,25
Water tightness	IN 1928 Mét.B			Come in
Tensile strength	EN 12311-2 Mét.A	N/50mm	MLV L≥650 MLV T≥500	L=650 T=500
Elongation	EN 12311-2 Mét.A	%	MLV L≥39 MLV T≥70	L=39 T=70
Resistance of overlaps (shear)	IN 12317-2	N/50 mm	MLV ≥ 420	420
Impact resistance	IN 12691	mm	MLV T ≥ 200	200
Resistance to static charge	IN 12730 Ét. B	kg	MLV ≥ 20	20

Low temperature foldability	IN 495-5	°C	MLV ≥ -40	-40
Reaction to fire	IN 13501-1	Euroclasses		And
Longitude	IN 1848-2	m	MDV: -0% and +5%	5,10,20 and 30
Width	IN 1848-2	m	MDV: -0.5% and +1%	1,5
Visible defects	IN 1850-2			Come in
Rectitude	IN 1848-2	mm	MLV g ≤ 50	50
Flatness	IN 1848-2	mm	MLV p ≤ 10	10
Dimensional stability	IN 1107-02	%	MLV L ≤ -0.4 MLV T ≤ -0.3	L = -0.4 T = -0.3

Description of system components:

The sheets of the ECODRY line are mainly composed of polymeric raw materials of high-performance thermoplastic polyolefins (CPE) and polyester and polypropylene fibers.
The composition of the polymeric part may vary from one product to another depending on the specific mixture used.
The packaging materials are cardboard, polyethylene stretch film and wood. The amount of packaging materials.
The amount of packaging materials varies depending on the thickness and size of the sheets.
The weight content of the ECODRY films included in the EPD is shown in the following tables.
The composition of the product is detailed in the following table, corresponding to the components of ECODRY sheets®.

Board 1: **Table composition of the sheets**.

ECODRY				
System Components	**Weight %**		**Material recycled, weight %**	**Material renewable, weight %**
	Average value	**Variability**		
POLYMERS	60 - 80	9,7 ÷ 9.8%	60 - 70	0
POLYMERIC NONWOVEN	20 - 40	0,7 ÷ 0,8 %	0	0
TOTAL	100%	-	60 - 70	
Packing	**Weight %**			
	Mean value (kg/m^2)		**Average value in % of the product**	
POLYSTYRENE	0,01		0,01%	
CARDBOARD TUBES	0,02		0,05%	
WOODEN PALET	0,11		0,22%	
TOTAL	0,14		0,28%	

During the life cycle of the product, no hazardous substances included in the "Candidate List for Authorization (SVHC)" have been used in a percentage greater than 0.1% of the weight of the product.
All quantities specified in the system component description table refer to the ECODRY family as a whole, unifying all stages of the life cycle.

Board 2: **Amount of biogenic carbon in the product.**

Results by functional unit		
BIOGENIC CARBON CONTENT	**UNIT**	**QUANTITY**
Average biogenic carbon contained in the product	kg C	0
Medium biogenic carbon contained in the packaging	kg C	0,24

LCA Information

FUNCTIONAL UNIT	1 m² of surface covered by the line of ECODRY® sheets with thicknesses of 0.52mm, 0.8mm and 1.25mm, installed and with an estimated useful life of 50 years.
SYSTEM LIMITS	From "Cradle to Tomb + Module D" (A + B + C + D)
REFERENCE SERVICE LIFE (RSL)	50 years
CUTTING RULES	At least 99% energy consumption is considered for manufacturing facilities It is considered 99% of the raw material by mass. The following processes have been excluded: - Manufacture of equipment used in production, buildings or any other equipment. - Transport of personnel to the plant; - Transport of personnel within the plant; - Research and development activities; - Long-term emissions.
ASSIGNMENTS	Wherever possible, assignments have been avoided. For cases where this has not been possible, a mass-based physical allocation is made. The data referring to the composition of the system have been obtained directly and have been analyzed following the principles of *modularity* and *polluter pays*.
GEOGRAPHICAL COVERAGE	Global
PERIOD	2021
LCA SOFTWARE USED FOR CALCULATION	Ecoinvent 3.8 with database Simapro 9.3.0.2 used for LCS calculations. The LCA methods used are in accordance with Standard UNE-EN 15804: EN 15804:2012 + A2:2019

Data quality

The data collected regarding components and energy corresponds to the year 2021 and includes data on raw materials consumed and energy consumption. The plausibility and consistency of the data collected has been verified. Good data quality can therefore be considered.
In the calculation of the LCA of the system, the flows related to the construction of the production plants, the application machines or the transport of the employees have not been considered.

Other information:

This LCA has been carried out by **SGS TECNOS S.A.U**. Material and energy consumption bills have been collected and checked. The study covers at least 95% of the materials and energy per module and at least 99% of the total material and energy use of each unit process.

Lifecycle and compliance:

This DAP includes the steps shown in Table 1. This statement is of the cradle-to-grave type.

This statement may not be comparable with those developed in other programmes or according to different reference documents; in particular it may not be comparable with Declarations not prepared in accordance with Standard UNE-EN 15804: EN 15804:2012 + A2:2019. Similarly, environmental declarations may not be comparable if the source of the data is different, the same information modules are not included, or are not based on the same scenarios.

Board 3 : **System limits. X: Declared module; GLO: Global; ES: Spain**

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	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	X	X	X	X	X	X	X	X	X	X	X	X
Geography	IS	IS	IS	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO
Specific data used	>90% GWP-GHG					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	3 products to analyze					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	1 production site					-	-	-	-	-	-	-	-	-	-	-	-

Life cycle stages

Understanding System Boundaries: Cradle to grave + module D

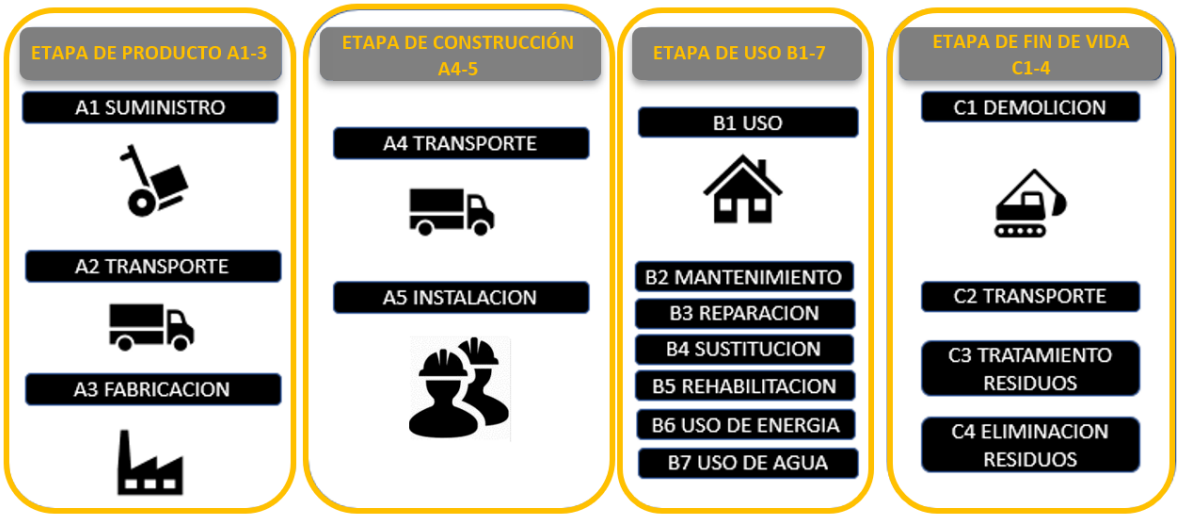

Figure 2: Stages of the life cycle of a product according to the analysis "from the cradle to the grave".

Product Stage A1 - A3

Description of the stage:

The product stage of the ECODRY® range is subdivided into modules A1 supply of raw materials, A2 transport to manufacturer and A3 manufacturing. The grouping of these three modules is a possibility contemplated by the UNE-EN 15804: 2012 + A2: 2019 standard that applies in this DAP.

A1 Supply of Raw Materials

This module refers to the extraction and pre-processing of the raw materials and energy sources used in the manufacture of the products that make up the system.

A2 Transport

This module includes the transport of raw materials to the manufacturing plant.

A3 Manufacturing

This module mainly contemplates the energy consumption during the manufacture of the product, as well as the manufacture of the product. Stage A3, corresponding to manufacturing, begins with proper cleaning of the machinery, preparation of the polymer mixture and dosing of the materials according to the manufacturing order with the mixing times stipulated by the Technical department. Then, if there has been any deviation, a first adjustment is made that acts as the first quality control and the coil is manufactured. Once a first quality control has passed, the coil is identified, a control is saved and logistically managed. The origin of the energy used in the manufacturing plant is 23.9% renewable, 2.5% associated with high efficiency cogeneration, 10.2% with cogeneration, another 25% with DC Natural Gas, 31.7% from nuclear energy and the rest generated from coal (2.9%), Fuel / Gas (2.4%) and other types of energy (Figure 4).

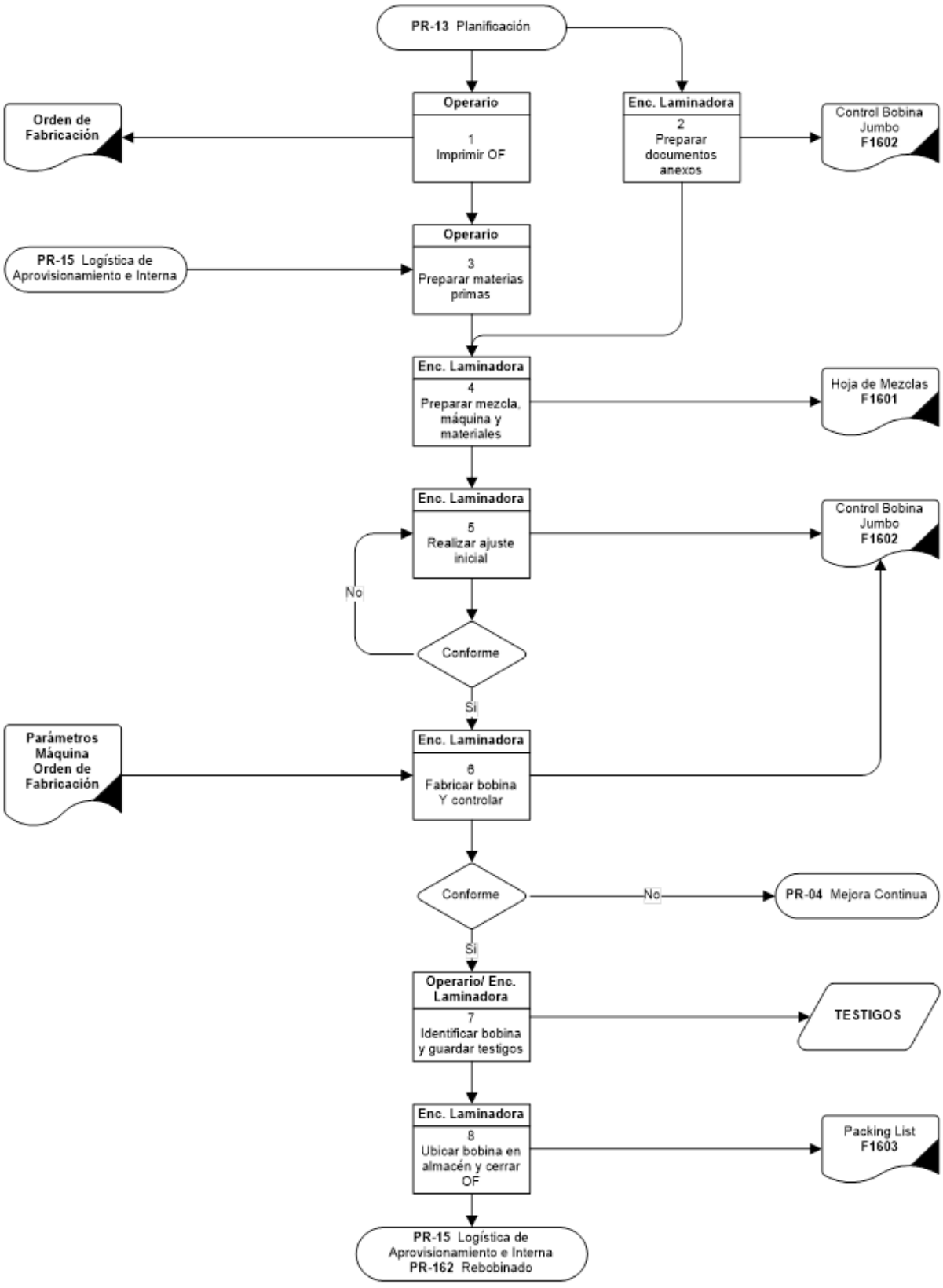

Figure 3: Simplified flow scheme of the production process of the ECODRY ® line.

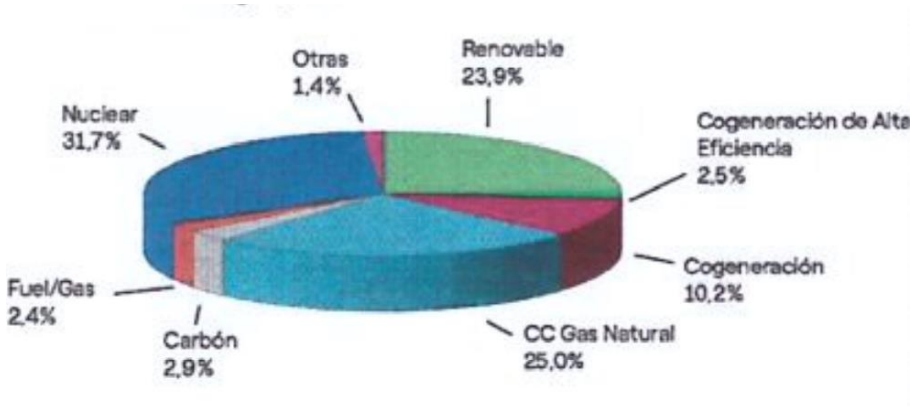

Figure 4: Electric mix.

Construction process stage A4 - A5

Description of the stage:

The construction process stage of the ECODRY® fame is subdivided into modules A4 transport to site and A5 installation.

A4 Transport to the construction site

This module contemplates the transport of the system components from the production center to the application site, including the possibility of intermediate storage. An average distance of transport is estimated depending on the destination of the product.

Transport is calculated based on a scenario whose characteristic parameters are described in the following table.

PARAMETER	VALUE (expressed by Functional unit)
Fuel consumption of the vehicle or means of transport used	Truck with an average load 16-32 t (euro 6)
Distance	1173 km
Bulk density of the transported product	N.A.
Utilization of load capacity (in volume, including return of unladen transport)	% assumed in the Ecoinvent database
Load capacity utilization factor, in volume	1 (default)
Fuel consumption of the vehicle or means of transport used	Airplane for cargo and medium distance
Distance	426 km
Bulk density of the transported product	N.A.
Utilization of load capacity (in volume, including return of unladen transport)	% assumed in the Ecoinvent database
Load capacity utilization factor, in volume	1 (default)
Fuel consumption of the vehicle or means of transport used	Cargo ship
Distance	2940 km
Bulk density of the transported product	N.A.
Utilization of load capacity (in volume, including return of unladen transport)	% assumed in the Ecoinvent database
Load capacity utilization factor, in volume	1 (default)

Figure 5: Stage A4.

A5 Installation

This module covers the application of the product on site, and includes:

- The waste derived from the application of ECODRY ® sheets and packaging that are sent to landfill.
- There is no water or energy consumption during the installation of the ECODRY® film range.
- The use of generic glue cement C2-S1/S2 for the application of the ECODRY® sheet range.

PARAMETER	VALUE (expressed by functional unit)		
Secondary materials used in the installation	ECODRY50	Porcelain glue cement C2S1/S2	3,625 kg
	ECODRY80	Porcelain glue cement C2S1/S2	3,625 kg
	ECODRY120	Porcelain glue cement C2S1/S2	3,625 kg
Water use	0 liters		
Use of other resources (electricity)	0 kWh		
Electricity consumption during the installation process	It is considered despicable.		
Material residue during on-site installation	1% of components		
Waste on site, collected for recycling, energy recovery (recovery) or dumping (specifying the route).	The waste from the product packaging is deposited in landfill. Conservative methodology: product waste deposited in landfill.		
Direct emissions to air, soil or water	They are not generated.		
Packaging waste	ECODRY50		0.084 kg
	ECODRY80		0.076 kg
	ECODRY120		0.250 kg
Packaging by m^2 recycling	0%		

Figure 6: Stage A5.

The declaration does not include the impact related to the optional use of products or accessories not expressed in the technical sheet of the system used.

Stage of Use (excluding possible savings) B1 - B7

Description of the stage:

This stage refers to the operation of the building including any emission to the environment caused by the use of the product (module B1) or by subsequent technical operations: maintenance (B2), repair (B3), replacement (B4) or rehabilitation (B5).

- B1: Emissions of volatile organic compounds into the environment from the applied product are considered irrelevant.
- B2-B5: The performance of the product under consideration leads to the conclusion that its service life equals or exceeds the useful life of the building. Once applied, the system components do not require technical actions or operations until the end-of-life stage, so it is considered that the product does not generate environmental loads at this stage.

The use stage also includes the use of energy in service (module B6) and the use of water in service (module B7).

- B6, B7: The product does not use water or electricity during the operational life of the building. And the energy and emission savings from the insulating properties of the system have not been accounted for.

End of life stage, C1 - C4

Description of the stage:

This phase consists of the modules related to the end of life, C1 to C4, detailed below:

- C1 Deconstruction, demolition: As the demolition and / or dismantling of the product is part of the demolition of the building itself, it is assumed that the environmental impact is extremely low and therefore can be disregarded.
- C2 Transport: Contemplates the transfer of construction waste from the work to the waste treatment point.
- C3 Waste treatment: Includes the reuse, recovery and/or recycling of waste. The product is considered to be destined for recovery or recycling, according to Law 7/2022 that establishes that construction and demolition waste must be destined for reuse, recycling or other forms of recovery. The recovery center is considered to be located at a distance of 50km.
- C4 Waste disposal: It is assumed that 100% of waste is taken to controlled landfill.

PARAMETER	VALUE (expressed by functional unit)	
Collection process (mixed with the rest of CDW)	ECODRY50	0,335
	ECODRY80	0,625
	ECODRY120	0,525
Recovery system	Valorization	
Disposal (landfill)	ECODRY50	100%
	ECODRY80	100%
	ECODRY120	100%
Transport assumptions for the development of the scenario	Medium load truck 16-32 t (euro 6)	
Distance to Recovery Center	50 km	

Figure 7: Stage C1-C4

Reuse/recovery/recycling potential, D

Module D declares the environmental benefits resulting from the reuse and recycling of products, as well as energy recovery.

In this module, no savings resulting from recycling carried out throughout the life cycle have been computed. Nor have benefits derived from the waterproofing granted by the product been computed.

In this EPD, the avoided environmental burdens resulting from recycling carried out throughout the life cycle of the product are considered, however, there is no recycling of products in this module and all the product is taken to landfill, so it has been considered that the environmental benefit is 0.

Environmental impacts of ECODRY® sheets

The LCA results are detailed in the tables on the following pages together with the interpretation of the overall impacts produced per functional unit (1 m^2 of surface covered by ECODRY sheets®, with thicknesses of 0.52mm, 0.8mm and 1.25mm). In this case, the environmental results of the ECODRY50 sheet are shown in particular, subsequently, in annexes I and II the impacts for the rest of the sheets declared in this PAD are shown. Estimated impact results are only relative statements that do not indicate impact category endpoints, threshold exceedances, safety margins or risks.

The Simapro 9.3.0.2 software was used to perform the LCA, together with the Ecoinvent 3.8 database.

As impact models have been used:

- CML-IA baseline V3.07/ EU25.
- ReCiPe 2016 Midpoint (H) V1.06 / World (2010) H.
- EDIP 2003 V1.07 / Default.
- Cumulative Energy Demand V1.11
- EF 3.0 Method (adapted) V1.02 / EF 3.0 normalization and weighting set.
- IPCC 2021 GWP100 V1.00

POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY50 FILM

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Global warming potential, GWP - *kg CO_2 eq (NA)*	Fossil- *kg CO_2 Eq*	1,03E+00	4,01E-01	4,88E+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	2.73E-03	0,00E+00	1.76E-03	0,00E+00
	Biogenic- *kg CO_2 Eq*	-1.81E+00	1.45E-04	-1,41E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,36E-06	0,00E+00	1.75E-06	0,00E+00
	Land use and transformation- *kg CO_2 Eq*	2.79E-03	3,63E-05	5,12E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.09E-06	0,00E+00	1.67E-06	0,00E+00
	TOTAL– *kg CO_2 Eq*	-7.76E-01	4,01E-01	4,75E+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	2.73E-03	0,00E+00	1.77E-03	0,00E+00
Stratospheric ozone depletion potential (ODP) -	*kg CFC11 eq (NA)*	1,30E-06	9.12E-08	5.90E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,32E-10	0,00E+00	7,14E-10	0,00E+00
Acidification potential of soil and water resources, (PA)	*mole H+ eq(NA)*	5.05E-03	1.98E-03	3,16E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7.75E-06	0,00E+00	1,66E-05	0,00E+00
Eutrophication potential, Fraction of nutrients reaching freshwater as final compartment (EP-freshwater)	*kg PO_4 Eq*	1,46E-04	2,49E-06	5.41E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5.97E-08	0,00E+00	5.67E-08	0,00E+00
	kg P eq(NA)	4.75E-05	8.12E-07	1,76E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.95E-08	0,00E+00	1.85E-08	0,00E+00

Eutrophication potential, Fraction of nutrients reaching seawater as final compartment (EP-marine)	***kg N eq (NA)***	1,11E-03	7.05E-04	4.94E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,54E-06	0,00E+00	5.74E-06	0,00E+00
Eutrophication potential, Accumulated excess (EP-terrestrial)	***mol N eq (NA)***	1,24E-02	7.73E-03	5,35E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.72E-05	0,00E+00	6,31E-05	0,00E+00
Tropospheric Ozone Formation Potential (POCP)	***kg NMVOC eq (NA)***	4.43E-03	2.04E-03	1,80E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6.59E-06	0,00E+00	1.84E-05	0,00E+00
Potential for depletion of abiotic resources for non-fossil resources (ADP - minerals & metals)	***kg Sb eq (2)***	8,11E-06	2.31E-07	8.64E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9.67E-09	0,00E+00	4.02E-09	0,00E+00
Potential for depletion of abiotic resources for fossil resources (ADP –fossil)	***MJ, net calorific value (2)***	1.97E+01	5,65E+00	7,08E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,14E-02	0,00E+00	4.93E-02	0,00E+00
Water (use) potential, weighted lack and water consumption (WDP)	***m^3 depriv. (2)***	5.04E-01	5,22E-03	2,96E+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	1,26E-04	0,00E+00	2,22E-03	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
Disclaimer-(2)- The results of this environmental impact indicator should be used with caution, as uncertainties about these results are high or experience with the indicator is limited.

POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY FILM50 ® ADDITIONAL AND VOLUNTARY IMPACTS

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Potential incidence of diseases due to PM (PM) emissions	*disease inc. (NA)*	6,39E-08	6,67E-09	3.04E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,19E-10	0,00E+00	3.34E-10	0,00E+00
Potential for human exposure efficiency relative to U235 (IRP)	*kBq U-235 eq (1)*	5.74E-02	2.45E-02	1.57E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,80E-04	0,00E+00	2.02E-04	0,00E+00
Potential Comparative Toxic Unit for Humans (HTP-c)	*CTUh (2)*	9.22E-10	4,44E-11	4.03E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,21E-12	0,00E+00	6.89E-13	0,00E+00
Potential Comparative Toxic Unit for Humans (HTP-nc)	*CTUh (2)*	2.84E-09	4.79E-11	6.57E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.04E-12	0,00E+00	7.90E-13	0,00E+00
Potential comparative toxic unit for ecosystems	*CTUe (2)*	1,83E+01	3,16E+00	1,63E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,25E-02	0,00E+00	3,11E-02	0,00E+00
Potential of the Soil Quality Index (PQS)	*Pt (2)*	1,67E+02	1,05E+00	5,30E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.88E-02	0,00E+00	1.03E-01	0,00E+00

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POTENTIAL ENVIRONMENTAL IMPACTS OF THE ECODRY FILM50 ADDITIONAL AND MANDATORY IMPACTS

Parameters		Product Stage	Construction Process Stage		Stage of use						End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
GWP –GHG[2]	***kg CO2 eq***	1,04E+00	4,00E-01	4,85E+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	2.72E-03	0,00E+00	1.75E-03	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
Disclaimer-(2)- The results of this environmental impact indicator should be used with caution, as uncertainties about these results are high or experience with the indicator is limited.

USE OF RESOURCES OF THE ECODRY50 ® SHEET

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Primary Energy Resources - Renewables	**Used as an energy source *MJ, net calorific value***	3,12E+01	6,19E-01	7,51E+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	5.91E-04	4,71E-05	4,20E-04	0,00E+00
	Used as raw material *MJ, net calorific value*	1,06E+00	0,00E+00	1.06E-02	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	0,00E+00	0,00E+00	0,00E+00
	TOTAL *MJ, net calorific value*	3,23E+01	6,19E-01	7,52E+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	5.91E-04	4,71E-05	4,20E-04	0,00E+00
Primary energy resources - Non-renewable	**Used as an energy source *MJ, net calorific value***	2,12E+01	6,00E+00	7,57E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,39E-02	1,20E-02	5.24E-02	0,00E+00
	Used as raw material - *MJ, net calorific value*	4,48E-01	0,00E+00	4,48E-03	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	0,00E+00	0,00E+00	0,00E+00
	TOTAL *MJ, net calorific value*	2,16E+01	6,00E+00	7,57E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,39E-02	1,20E-02	5.24E-02	0,00E+00
Secondary materials	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Renewable secondary fuels	***MJ, net calorific value***	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-renewable secondary fuels	***MJ, net calorific value***	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	***m^3***	1,49E-02	2,13E-04	7.34E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4.68E-06	0,00E+00	5.28E-05	0,00E+00

SHEET WASTE CATEGORY ECODRY50 ®

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
Hazardous waste disposed of	***kg***	2.66E-05	1,50E-05	8.43E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.08E-07	0,00E+00	7.45E-08	0,00E+00
Non-hazardous waste disposed of	***kg***	2.04E-01	3.38E-02	1,45E+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	2,17E-03	0,00E+00	3,35E-01	0,00E+00
Radioactive waste disposed of	***kg***	5,25E-05	3.99E-05	1.66E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.79E-07	0,00E+00	3,23E-07	0,00E+00

OTHER ECODRY50 ® SHEET OUTFLOWS															
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
Components for reuse	***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	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	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	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery (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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy exported, electricity	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy exported, thermal	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Interpretation of LCA

The following graphs allow us to determine which stages of the Life Cycle have the greatest impact on the selected environmental indicators.

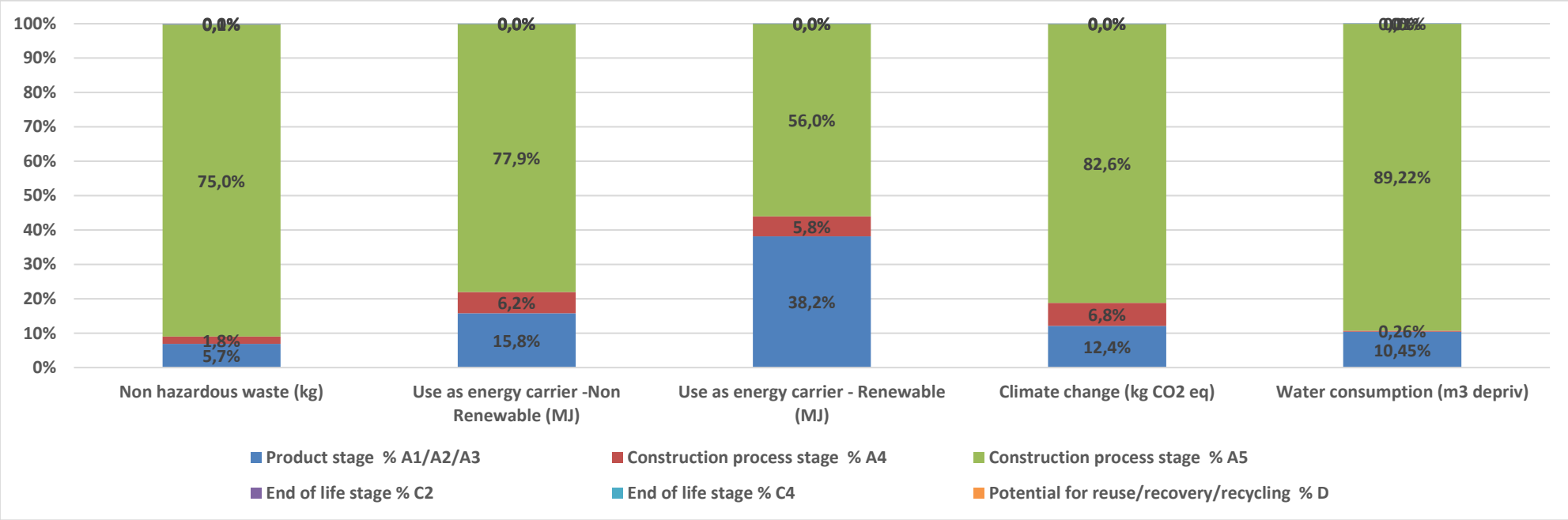

Figure 8: Environmental impacts of ECODRY50 film.

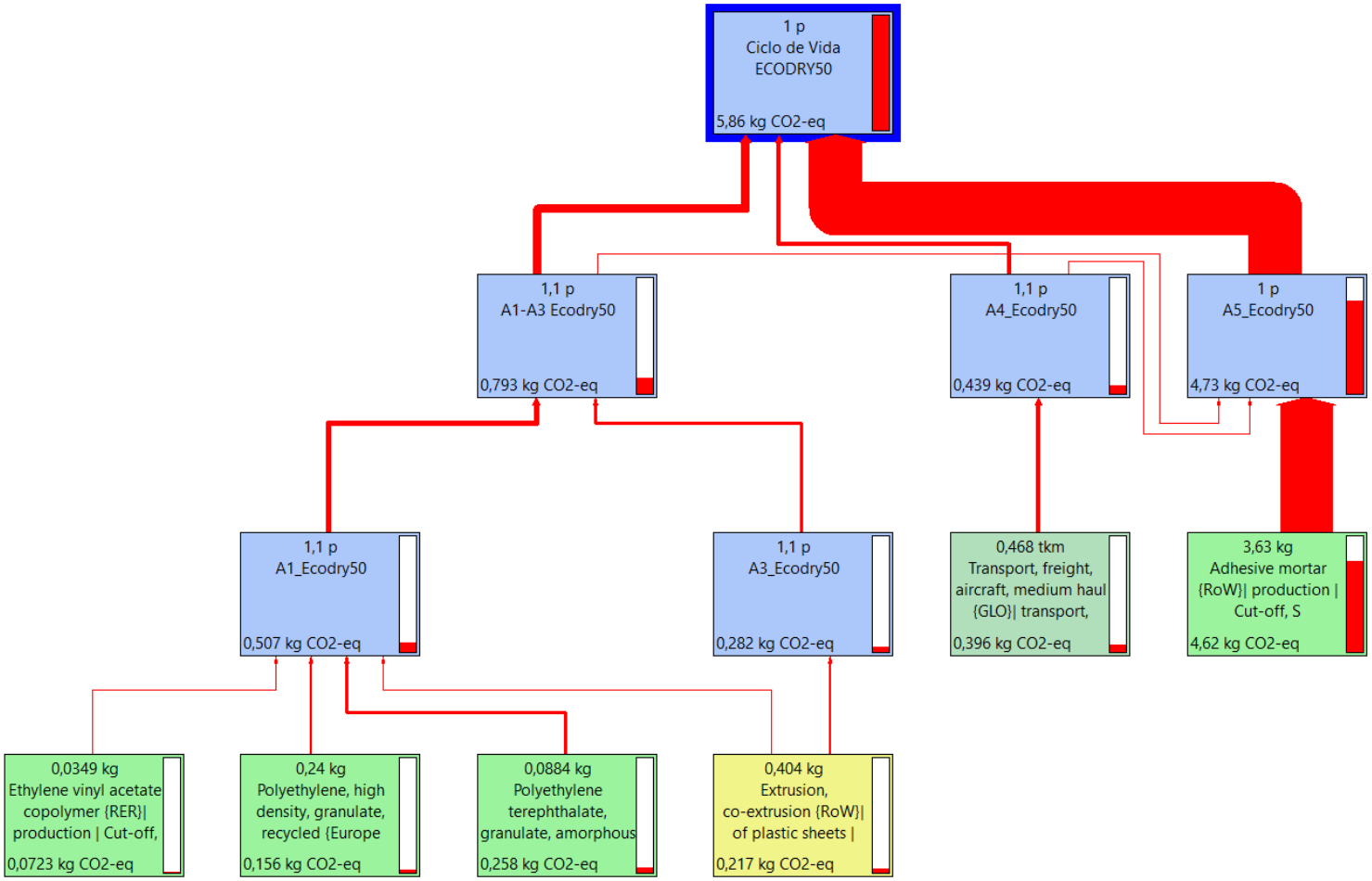

Figure 9:Sankey ECODRY50 diagram

Health Information

View the safety data sheets of the system components.

Technical Data Sheets | Revestech

Positive contributions to the environment

In Revestech, organization dedicated to the design, development, production and marketing of waterproofing systems, in addition to committing ourselves to comply with the policy of quality, environmental management and health and safety, linked to our management system, we show a firm commitment to the environment and develop our products thinking about a sustainable and efficient future, betting on R + D + i, one of our hallmarks.

The development of the ECODRY ® line allows, from a point of view committed to the environment, to achieve a waterproofing of buildings, roofs and other systems such as swimming pools that will avoid the risk of humidity, providing more protected foundations while improving the thermal insulation of buildings in line with the principles of bioconstruction providing better efficiency to the building and avoiding any form of decomposition of materials or corrosion of metals.

Information relating to the EPD sector

This EDP is a statement of the ECODRY product line (ECODRY50, ECODRY80 and ECODRY120)

Origin of the information

Ambit: Spain

Period: 2021

The information has been obtained from the Ecoinvent 3.8 databases and/or from raw material suppliers

Raw Materials	Generic databases, and information from suppliers or producer associations
Production	Own data
Transport	Generic or specific information
Application	Generic or specific information
Life in Use	Generic information
End of Life	Generic information
Energy	Specific information

References

1. ISO 14020:2000: Environmental labels and declarations — General principles
2. ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures (2010).
3. ISO 14040, Environmental management – Life cycle assessment – Principles and reference framework (2006).
4. ISO 14044:2006, Environmental management – Life cycle assessment – Requirements and guidelines (2006).
5. PCR 2019:14 Construction products - version 1.1 • CEN (2019): EN 15804:2012+A2:2019, Sustainability of construction works – Environmental product declarations – Core rules for product category of construction products)
6. General Programme Instructions of the International EPD® System. Version 3.01.
7. ACV Revestech year 2022.

ANNEXES

ANNEX I. ECODRY80 Impacts

POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY80 FILM

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Global warming potential, GWP - *kg CO_2 eq (NA)*	Fossil- *kg CO_2 Eq*	1,18E+00	1,61E-01	4,87E+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	5.09E-03	0,00E+00	3,29E-03	0,00E+00
	Biogenic- *kg CO_2 Eq*	-7.90E-02	8.87E-05	3,24E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,39E-06	0,00E+00	3,26E-06	0,00E+00
	Land use and transformation- *kg CO_2 Eq*	1.68E-03	3,35E-05	5.01E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.04E-06	0,00E+00	3,11E-06	0,00E+00
	TOTAL– *kg CO_2 Eq*	1,10E+00	1,61E-01	4,91E+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	5,10E-03	0,00E+00	3,30E-03	0,00E+00
Stratospheric ozone depletion potential (ODP)	*kg CFC11 eq (NA)*	1,29E-06	3.68E-08	5.84E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,18E-09	0,00E+00	1,33E-09	0,00E+00
Acidification potential of soil and water resources, (PA)	*mol H+ eq (NA)*	5.03E-03	6,69E-04	3,14E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,45E-05	0,00E+00	3.09E-05	0,00E+00
	kg PO_4 Eq	1,38E-04	1.96E-06	5.40E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,11E-07	0,00E+00	1.06E-07	0,00E+00

Eutrophication potential, Fraction of nutrients reaching freshwater as final compartment (EP-freshwater) *(NA)*	***kg P eq***	4,49E-05	6,37E-07	1,76E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,63E-08	0,00E+00	3,45E-08	0,00E+00
Eutrophication potential, Fraction of nutrients reaching seawater as final compartment (EP-marine)	***kg N eq (NA)***	9.45E-04	1,02E+10	4.88E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.87E-06	0,00E+00	1.07E-05	0,00E+00
Eutrophication potential, Accumulated excess (EP-terrestrial)	***mol N eq (NA)***	1,03E-02	3,31E+09	5.27E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,20E-05	0,00E+00	1,18E-04	0,00E+00
Tropospheric Ozone Formation Potential (POCP)	***kg NMVOC eq (NA)***	3.42E-03	1,08E+09	1.78E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,23E-05	0,00E+00	3,43E-05	0,00E+00
Potential for depletion of abiotic resources for non-fossil resources (ADP - minerals & metals)	***kg Sb eq (2)***	7.84E-06	3,51E+08	8.64E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,80E-08	0,00E+00	7.51E-09	0,00E+00

Potential for depletion of abiotic resources for fossil resources (ADP –fossil)	***MJ, net calorific value (2)***	2,18E+01	1,14E+08	7,07E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7.72E-02	0,00E+00	9,19E-02	0,00E+00
Water (use) potential, weighted lack and water consumption (WDP)	***m³ depriv. (2)***	4,26E-01	3,73E+07	2,95E+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	2,35E-04	0,00E+00	4,14E-03	0,00E+00

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Disclaimer-(2)- The results of this environmental impact indicator should be used with caution, as uncertainties about these results are high or experience with the indicator is limited.

POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY80 ADDITIONAL AND MANDATORY IMPACTS

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/ demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
GWP – GHG2	***kg CO2 eq***	1,19E+00	1,19E+00	1,60E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5.08E-03	0,00E+00	3,26E-03	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
Disclaimer-(2)- The results of this environmental impact indicator should be used with caution, as uncertainties about these results are high or experience with the indicator is limited.

POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY80 ® ADDITIONAL AND VOLUNTARY IMPACTS

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Potential incidence of diseases due to emissions	PM (PM) disease inc. (NA)	5.59E-08	6.56E-09	3.04E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4.09E-10	0,00E+00	6,23E-10	0,00E+00
Potential for human exposure efficiency relative to	kBq U-235 eq (1)	6,37E-02	3.95E+06	1.56E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,35E-04	0,00E+00	3.76E-04	0,00E+00
Potential comparative toxic unit for humans	(HTP-c) – CTUh (2)	1,84E+01	5,32E+01	1,63E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6.06E-02	0,00E+00	5.81E-02	0,00E+00
Potential comparative toxic unit for humans	HTP-nc) – CTUh (2)	8.63E-10	4,19E+05	6,37E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.95E-12	0,00E+00	1,47E-12	0,00E+00
Potential comparative toxic unit for ecosystems	CTUe (2)	1,28E-08	1,29E+06	1.55E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,12E-11	0,00E+00	3.82E-11	0,00E+00
Potential of the Soil Quality Index (PQS)	Pt (2)	1,54E+01	1,63E+02	3,79E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5.38E-02	0,00E+00	1,93E-01	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
Disclaimer-(2)- The results of this environmental impact indicator should be used with caution, as uncertainties about these results are high or experience with the indicator is limited.

USE OF RESOURCES OF THE ECODRY80 ® SHEET																
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction /demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Primary Energy Resources - Renewables	Used as an energy source *MJ, net calorific value*	3,58E+00	3,58E+00	1.93E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,10E-03	0,00E+00	7.84E-04	0,00E+00
	Used as raw material *MJ, net calorific value*	8.98E-01	0,00E+00	8.98E-03	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	0,00E+00	0,00E+00	0,00E+00
	TOTAL *MJ, net calorific value*	4,48E+00	3,58E+00	2.83E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,10E-03	0,00E+00	7.84E-04	0,00E+00
Primary energy resources - Non-renewable	Used as an energy source *MJ, net calorific value*	2,33E+01	2,33E+01	2,48E+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	8,19E-02	0,00E+00	9.77E-02	0,00E+00

	Used as raw material - *MJ, net calorific value*	1,75E+00	0,00E+00	1,75E-02	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	0,00E+00	0,00E+00	0,00E+00
	TOTAL *MJ, net calorific value*	2,50E+01	2,33E+01	2,49E+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	8,19E-02	0,00E+00	9.77E-02	0,00E+00
Secondary materials	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Renewable secondary fuels	***MJ, net calorific value***	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-renewable secondary fuels	***MJ, net calorific value***	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	***m^3***	8.67E-02	1,32E-02	1.58E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8.73E-06	0,00E+00	9.85E-05	0,00E+00

SHEET WASTE CATEGORY ECODRY80 ®																
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
Hazardous waste disposed of	***kg***	2.04E-05	5.98E-01	8,28E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.01E-07	0,00E+00	1,39E-07	0,00E+00
Non-hazardous waste disposed of	***kg***	1.95E-01	1.95E-01	5.69E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4.04E-03	0,00E+00	6,25E-01	0,00E+00
Radioactive waste disposed of	***kg***	5.27E-05	5.27E-05	1.62E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,21E-07	0,00E+00	6.03E-07	0,00E+00

OTHER ECODRY80 ® SHEET OUTPUT FLOWS																
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
Components for reuse	*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	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	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	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery (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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy exported, electricity	*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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy exported, thermal	*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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

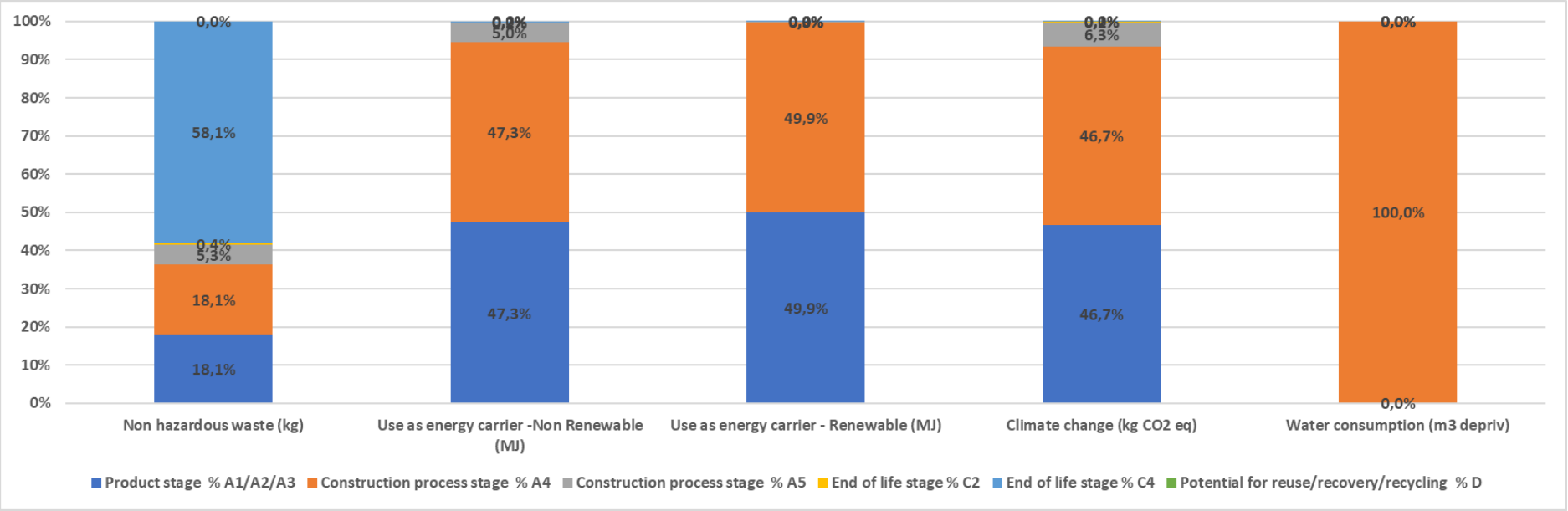

Figure 10: ECODRY80 impacts.

ANNEX II. ECODRY120 Impacts

POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY120 FILM

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Global warming potential, GWP - *kg CO_2 eq (NA)*	Fossil- *kg CO_2 Eq*	1,21E+00	2,40E+00	5,10E+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	4,27E-03	0,00E+00	2.76E-03	0,00E+00
	Biogenic- *kg CO_2 Eq*	-3.70E-01	7.68E-04	3,40E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3.69E-06	0,00E+00	2.74E-06	0,00E+00
	Land use and transformat	1.72E-03	1.57E-04	5.02E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.71E-06	0,00E+00	2.61E-06	0,00E+00
	TOTAL– *kg CO_2 Eq*	8,38E-01	2,40E+00	5,11E+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	4,28E-03	0,00E+00	2.77E-03	0,00E+00
Stratospheric ozone depletion potential (ODP)	*kg CFC11 eq (NA)*	6.94E-07	5.45E-07	5.76E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9.91E-10	0,00E+00	1,12E-09	0,00E+00
Acidification potential of soil and water resources, (PA)	*mol H+ eq (NA)*	5.08E-03	1,23E-02	3,26E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,21E-05	0,00E+00	2.60E-05	0,00E+00
Eutrophication potential, Fraction of nutrients reaching	*kg PO_4 Eq*	1,28E-04	1,28E-04	1,18E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9.36E-08	0,00E+00	8.89E-08	0,00E+00
	kg P eq	4,16E-05	4,16E-05	3.85E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3.05E-08	0,00E+00	2.90E-08	0,00E+00

Eutrophication potential, Fraction of nutrients reaching seawater as final compartment (EP-marine)	***kg N eq (NA)***	9.60E-04	9.60E-04	4,46E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.41E-06	0,00E+00	8.99E-06	0,00E+00
Eutrophication potential, Accumulated excess (EP-terrestrial)	***mol N eq (NA)***	1.06E-02	1.06E-02	5.27E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.69E-05	0,00E+00	9.90E-05	0,00E+00
Tropospheric Ozone Formation Potential (POCP)	***kg NMVOC eq (NA)***	3.85E-03	3.85E-03	1.78E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,03E-05	0,00E+00	2.88E-05	0,00E+00
Potential for depletion of abiotic resources for non-fossil resources (ADP - minerals & metals)	***kg Sb eq (2)***	7.52E-06	7.52E-06	8.64E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.52E-08	0,00E+00	6,31E-09	0,00E+00
Potential for depletion of abiotic resources for fossil resources (ADP –fossil)	***MJ, net calorific value (2)***	2,73E+01	2,73E+01	7,07E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,48E-02	0,00E+00	7.72E-02	0,00E+00
Water (use) potential, weighted lack and water consumption	**(WDP)**	5.67E-01	5.67E-01	2,95E+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	1.97E-04	0,00E+00	3.48E-03	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
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POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY120 SHEET ADDITIONAL AND MANDATORY IMPACTS

Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/ demoliti	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recover
GWP – GHG[2]	kg CO2 eq	1,21E+00	1,21E+00	2,39E+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	4,27E-03	0,00E+00	2.74E-03	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
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POTENTIAL ENVIRONMENTAL IMPACTS OF ECODRY120 ® SHEET ADDITIONAL AND VOLUNTARY IMPACTS																
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Potential incidence of diseases due to PM (PM) emissions	disease inc. (NA)	5.68E-08	2.74E-08	3.06E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,43E-10	0,00E+00	5,23E-10	0,00E+00
Potential for human exposure efficiency relative to U235 (IRP)	kBq U-235 eq (1)	5.70E-02	5.70E-02	1.56E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2.81E-04	0,00E+00	3,16E-04	0,00E+00
Potential Comparative Toxic Unit for Humans (HTP-c)	CTUh (2)	1,62E+01	1,62E+01	1,63E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5.09E-02	0,00E+00	4.88E-02	0,00E+00
Potential Comparative Toxic Unit for Humans (HTP-nc)	CTUh (2)	1,08E-09	1,08E-09	6,37E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.64E-12	0,00E+00	1,24E-12	0,00E+00
Potential comparative toxic unit for ecosystems	CTUe (2)	1,21E-08	1,21E-08	1.55E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,14E-11	0,00E+00	3,21E-11	0,00E+00

Potential of the Soil Quality Index (PQS)	**Pt (2)**	3,95E+01	3,95E+01	3,79E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4.52E-02	0,00E+00	1,62E-01	0,00E+00

Disclaimer-(1)- This impact category refers primarily to the potential impact of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not take into account the effects due to possible nuclear accidents, occupational exposure or underground radioactive waste disposal facilities. The potential ionizing radiation from soil, radon and some building materials is also not measured with this indicator.
Disclaimer-(2)- The results of this environmental impact indicator should be used with caution, as uncertainties about these results are high or experience with the indicator is limited.

ECODRY120 ® SHEET RESOURCE USAGE																
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	D Reuse Potential, Recovery and Recycling
Primary Energy Resources - Renewables	Used as an energy source *MJ, net calorific value*	7,98E+00	7,98E+00	1,15E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9.26E-04	0,00E+00	6.59E-04	0,00E+00
	Used as raw material *MJ, net calorific value*	8.98E-01	0,00E+00	8.98E-03	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	0,00E+00	0,00E+00	0,00E+00
	TOTAL *MJ, net*	8,88E+00	7,98E+00	1,24E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9.26E-04	0,00E+00	6.59E-04	0,00E+00
Primary energy resources - Non-renewable	Used as an energy source *MJ, net calorific value*	2,93E+01	2,93E+01	3,57E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6.88E-02	0,00E+00	8,20E-02	0,00E+00
	Used as raw material	1,75E+00	0,00E+00	1,75E-02	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	0,00E+00	0,00E+00	0,00E+00

	TOTAL ***MJ, net calorific value***	3,10E+01	2,93E+01	3,57E+01	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	6.88E-02	0,00E+00	8,20E-02	0,00E+00
Secondary materials	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Renewable secondary fuels	***MJ, net calorific value***	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-renewable secondary fuels	***MJ, net calorific value***	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	***m^3***	8.67E-02	1,32E-02	1.58E-04	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	8.73E-06	0,00E+00	9.85E-05	0,00E+00

OTHER ECODRY120 ® SHEET OUTFLOWS															
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
Components for reuse	***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	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	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	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery (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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy exported, electricity	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy exported, thermal	***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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

SHEET WASTE CATEGORY ECODRY120 ®															
Parameters		Product Stage	Construction Process Stage		Stage of use							End of life stage				Module D
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Usage	B2 Maintenance	B3 Repair	B4 Substitution	B5 Rehabilitation	B6 In-service energy use	B7 Use of water in service	C1 Deconstruction/demolition	C2 Transport	C3 Waste treatment	C4 Waste disposal	Reuse Potential Recovery and Recycling
Hazardous waste disposed of	***kg***	1.58E-05	1.58E-05	8.95E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1.69E-07	0,00E+00	1,17E-07	0,00E+00
Non-hazardous waste disposed of	***kg***	1,61E-01	1,61E-01	6,29E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,39E-03	0,00E+00	5,25E-01	0,00E+00
Radioactive waste disposed of	***kg***	4,70E-05	4,70E-05	2.38E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4.38E-07	0,00E+00	5.06E-07	0,00E+00

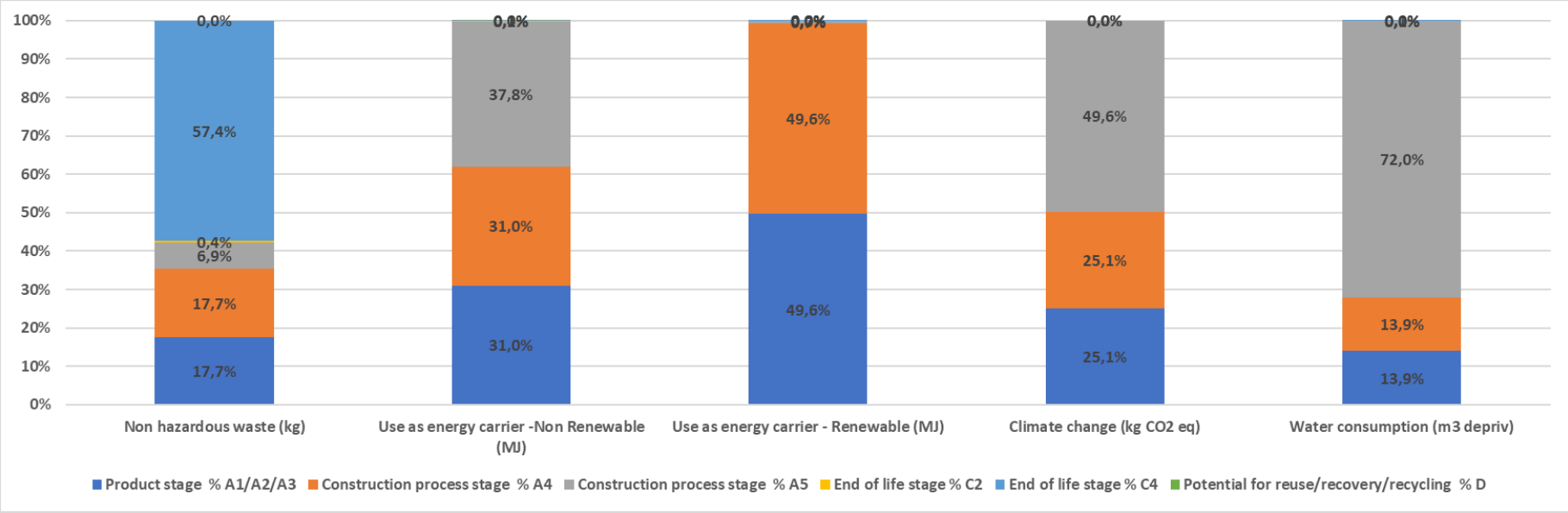

Figure 10: ECODRY120 impacts.