



# Wave Wide Lora Handbag Wave Maxi Lora Handbag

## ENVIRONMENTAL PRODUCT DECLARATION (*Pre-certified*)

*In accordance with ISO 14025*



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### CPC CODE

29220 Luggage and handbags  
PCR 2022  
Version 1.0

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### PUBLICATION DATE

2022-02-09  
Validity: 2023-02-10

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### REGISTRATION NUMBER

S-P-02858



# General Information

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## General Information

**Owner of the EPD:** Amazonlife Srl, P.Iva 07082030482, Via San Morese 76, Calenzano, 50041, Firenze (Italy).

For more information, please contact: [office@plus3.eco](mailto:office@plus3.eco)

[www.plus3.eco](http://www.plus3.eco)

**Product-related or management system-related certifications:** SA8000 “Workplace Condition Assessment”; UNI EN ISO 14021:2016; Listed in “Sustainable Brand Platform”

**Location of production site:** Pelletteria Fiorentina Montecristo Srl, Via San Morese 76, Calenzano (FI), 50041, Florence (Italy)

**Programme:** The international EPD® system, [www.environdec.com](http://www.environdec.com)

**Programme operator:** EPD International AB

**Type of EPD:** Pre-certified

**EPD Registration number:** S-P-02858

**Publication date:** 2022-02-09

**Validity date:** 2023-02-10

**Geographical scope:** Global

*Prepared with the assistance of Kairos Consulenza Srl*



# Programme Information



## The International EPD® System

EPD International AB [www.environdec.com](http://www.environdec.com)  
Box 210 60 [info@environdec.com](mailto:info@environdec.com)  
SE-100 31 Stockholm  
Sweden

Product category rules (PCR): PCR 2022:XX Luggage and handbags, version 1.0 UN CPC 29220.

PCR review was conducted by: The Technical Committee of the International EPD® System. Review chair: XY Contact via [info@environdec.com](mailto:info@environdec.com)

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

- EPD process certification
- EPD verification

Third-party verifier: Vladimír Kočí, PhD – LCA Studio  
Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third-party verifier:

- Yes
- No

*The EPD owner has the sole ownership, liability and responsibility for the EPD. EPDs within the same product category but from different programmes may not be comparable.*

# Company Introduction

Amazonlife Srl is a new innovative start-up company based on principles of ethical and sustainable development, operating in fashion handbags and accessories industry with the label +Three<sup>000</sup>.

We make artisanal items using innovative materials (natural, recycled or reused), guaranteeing high quality and timeless products. The production is entirely made in Italy, and we work to be sustainable at each step of the value chain, combining ethics and innovation.

The products are designed from start to finish to reduce impact on the planet and stand as examples of positive change for the environment and the people.





# +Three<sup>°°°</sup> Pre-certified EPD



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## +THREE<sup>°°°</sup> Pre-certified EPD

- Amazonlife for its +Three<sup>°°°</sup> project is developing the first Pre-certified EPD in the handbag sector, starting from the **Wave collection**
- **Wave collection** is realized with **Seaqual Yarns fabrics**, a type of **post-consumer recycled polyester** that contains recycled marine plastic from Seaqual Initiative, the organization that promotes waters protection around the world.
- Wave bags also include other green materials - the **biogreen ecoleather finishes**, the **70% recycled cotton lining** and the **recycled polyester zippers** - which make +Three<sup>°°°</sup> a best practice for an **ecological and sustainable style**



**+Three<sup>ooo</sup>**



**Wave Maxi Lora**

**+3015**

**SKU: 56970**

*Recycled Materials post-consumer  
(including packaging): 82%*

*Total Material of Natural Origin: 63%*



**Wave Wide Lora**

**+3001**

**SKU: 57017**

*Recycled Materials post-consumer  
(including packaging): 83%*

*Total Material of Natural Origin: 62%*

*+Three<sup>ooo</sup> Wave handbags are made of polyester obtained from the recycling of ocean plastics. The finishes are in "Biogreen" fabric (eco-leather). Bag body: 100% recycled polyester including 78% with "Seaqual Yarns" fibers (a high quality 100% post-consumer recycled polyester yarn containing recycled Seaqual Initiative marine plastics) and 22% recycled Pes. Finishes in Biogreen (high quality elastomers based on bio-polyols, raw materials from renewable natural sources) Lining: 70% recycled cotton.*

*All fabrics and accessories are fully compliant with European legislation and standards, including European Union REACH Regulation. For further information, please contact [office@plus3.eco](mailto:office@plus3.eco).*

*UN CPC Scheme: 29220 «Luggage, handbags and the like, of leather, composition leather, plastic sheeting, textile materials, vulcanized fibre or paperboard, travel sets for personal toilet, sewing or shoe or clothes cleaning.*



**Product  
Information**

# LCA INFORMATION

When developing an EPD, the environmental performance of the product is described from a life cycle perspective by carrying out a life cycle assessment (LCA) of the product.

The LCA study was carried out in conformity with the ISO 14040 standards series, following the Product Category Rules (PCR) under review by the technical committee of the International EPD® System: PCR 2022:XX Luggage and handbags, version 1.0.

The system boundary is *cradle-to-gate*, in accordance with the reference PCR document. The phases reported in Figure include the Upstream, Core, and Downstream processes of the +Three°°° Wave handbags fabrication.

The fabrics and accessories are transported to the production site. Here, all fabrics are die-cut and eco-leathers are split and skived. All parts are assembled into the finished handbag using a sewing machine. The product is transported to the warehouse where primary (cotton bag) and secondary (cardboard) packaging occurs.

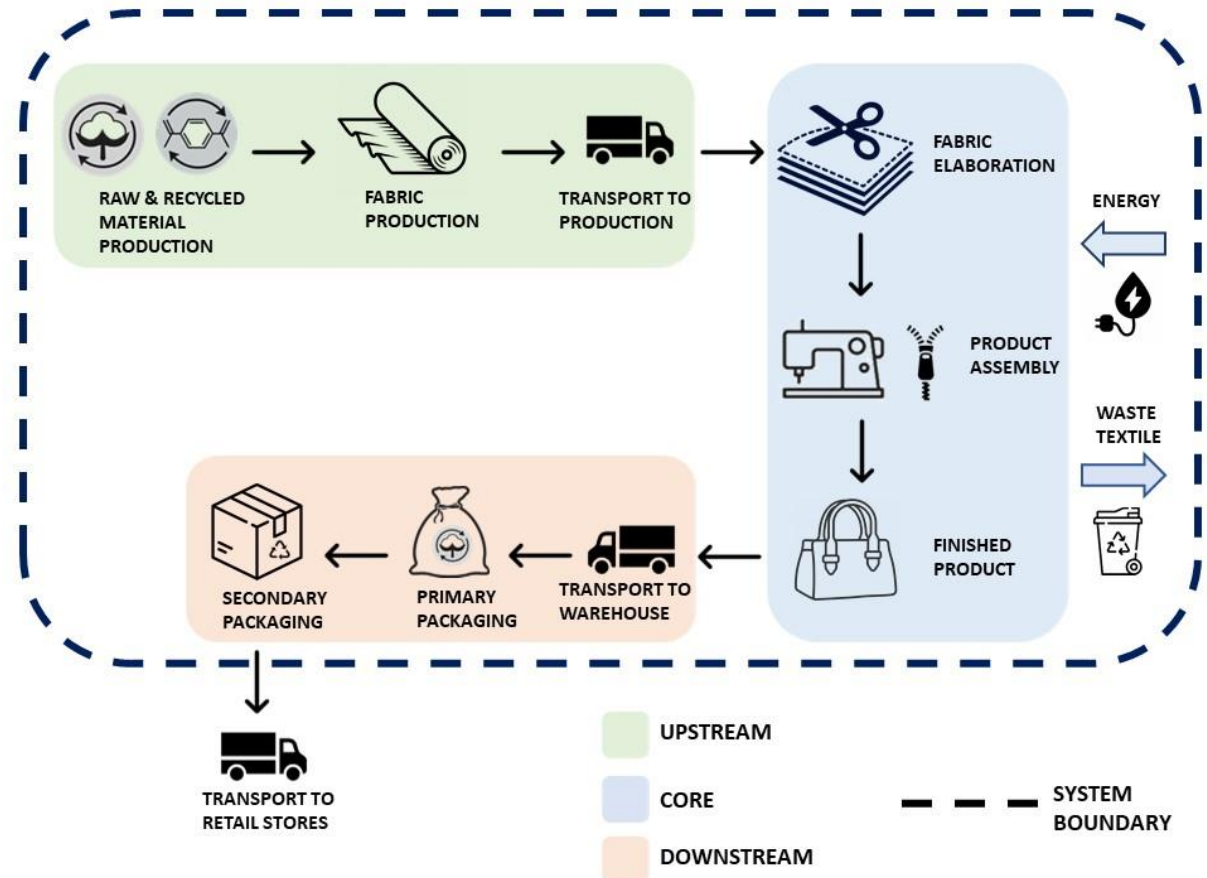
The LCA study for +Three°°° was conducted by Kairos Consulenza Srl, Via Francesco Petrarca 56-58, 50041 Calenzano (FI), Italy.

Database(s) and LCA Software used:

SimaPro v. 9.2.0.1

Ecoinvent v. 3.7

# +THREE°°° BAGS LIFE CYCLE



**Declared unit:** the declared unit is represented by 1 handbag including its primary (cotton bag) and secondary (cardboard box) packaging.

**Cut-off Rules:** data for elementary flows to and from the product system contributing to a minimum of 99% of the declared environmental impacts have been included.

**Allocation Rules:** Allocation rules follow the requirements reported in Section A.5 of the International EPD® System General Programme Instructions V. 4.0.

**Data Quality:** the data quality requirements considered in the study are those reported in Section A.4 of the International EPD® System General Programme Instructions V. 4.0.. In line with these rules, specific data were collected directly in the production site and refer to the year 2021. Secondary and proxy data were taken from the Ecoinvent 3.7 database and literature, respectively.

**Assumptions and Limitations:** the glueing and accessory plating phases have not been included in the LCA study due to their extreme low amounts in terms of weight and energy consumption.

**Reference Service Life (RSL):** Not applicable. The LCA covers cradle-to-gate analysis, up to the point of distribution. The downstream phase is limited to transport to storage since there is no protocol able to evaluate the use and disposal phases in a standardized and unambiguous way for this product category.

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*This pre-certified EPD has been developed following the guidelines reported in the International EPD® system General Programme Instructions V. 4.0. and supports the development of PCR «Luggage and handbags», which up to now is under review by the International EPD® system Technical Committee.*

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# Evaluation of Environmental Performance



# Content Declaration

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## Product

Product composition (including primary and secondary packaging) by weight is presented in the table below, together with the recycled content.

Total weight of handbag + packaging: Maxi Lora = 0.951 kg ; Wide Lora = 1.197 kg.

Materials	Unit	Weight		% of Recycled Content	
		Maxi	Wide	Maxi	Wide
Wave Lora model					
Polyester	kg (%)	0.342 (36.0)	0.531 (44.3)	96.0	98.0
Cotton	kg (%)	0.354 (37.2)	0.396 (33.1)	85.0	80.5
Paper and Cardboard (used as packaging)	kg (%)	0.149 (15.7)	0.157 (13.1)	100.0	100.0
Polyurethane*	kg (%)	9.74E-2 (10.2)	0.107 (8.8)	-	-
Metal accessories	kg (%)	8.56E-3 (0.9)	8.56E-3 (0.7)	-	-

\*Partially of natural origin.

## Packaging

Consumer packaging: Consumer packaging consists in tissue paper, cotton bag and cardboard box. All packaging materials are 100% recycled.

## Recycled material

Provenience of recycled materials (pre-consumer or post-consumer) in the product: The declared content for all materials constituting the product is listed in the table above. All recycled contents refer to post-consumer recycle.



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**Potential environmental impact – Wave Maxi Lora**

PARAMETER		UNIT	Upstream	Core	Downstream	TOTAL
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	2.681	0.116	0.004	2.80
	Biogenic	kg CO <sub>2</sub> eq.	0.0584	1.6E-3	2.94E-6	0.06
	Land use and land transformation	kg CO <sub>2</sub> eq.	0.0807	2.68E-5	2.67E-6	0.0807
	TOTAL	kg CO <sub>2</sub> eq.	2.82	0.118	0.004	2.95
Acidification potential (AP)		kg SO <sub>2</sub> eq.	0.0186	4.83E-4	2.04E-5	0.0191
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	0.0173	1.33E-4	4.67E-6	0.0174
Photochemical oxidant formation potential (POFP)		kg NMVOC eq.	0.0101	2.79E-4	2.53E-5	0.0104
Abiotic depletion potential – Elements		kg Sb eq.	2.7E-5	1.15E-6	6.36E-8	2.83E-5
Abiotic depletion potential – Fossil resources		MJ, net calorific value	35.1	1.53	5.87E-2	36.7
Water scarcity potential		m <sup>3</sup> eq.	19.5	7.74E-2	3.02E-4	19.6

**Environmental Performance**  
*Wave Maxi Lora*

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## Use of Resources – Wave Maxi Lora

PARAMETER		UNIT	Upstream	Core	Downstream	TOTAL
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	7.90	0.60	0.00	8.50
	Used as raw materials	MJ, net calorific value	0.00	0.00	0.00	0.00
	TOTAL	MJ, net calorific value	7.90	0.60	0.00	8.50
Primary energy resources – Non-renewable	Use as energy carrier	MJ, net calorific value	40.98	1.97	0.11	43.07
	Used as raw materials	MJ, net calorific value	0.00	0.00	0.00	0.00
	TOTAL	MJ, net calorific value	40.98	1.97	0.11	43.07
Secondary material		kg	0.72	0.00	0.00	0.72
Renewable secondary fuels		MJ, net calorific value	0.00	0.00	0.00	0.00
Non-renewable secondary fuels		MJ, net calorific value	0.00	0.00	0.00	0.00
Net use of fresh water		m <sup>3</sup>	23.3	0.08	3.02E-4	23.4



**Use of Resources**  
*Wave Maxi Lora*

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# Environmental Performance

*Wave Wide Lora*

+Three<sup>ooo</sup>

## Potential environmental impact – Wave Wide Lora

PARAMETER		UNIT	Upstream	Core	Downstream	TOTAL
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	3.02	0.104	0.005	3.13
	Biogenic	kg CO <sub>2</sub> eq.	0.0565	1.44E-3	2.94E-6	0.0579
	Land use and land transformation	kg CO <sub>2</sub> eq.	0.0873	2.44E-5	2.67E-6	0.0873
	TOTAL	kg CO <sub>2</sub> eq.	3.16	0.105	0.005	3.27
Acidification potential (AP)		kg SO <sub>2</sub> eq.	0.0197	4.29E-4	2.04E-5	0.0202
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	0.0174	1.19E-4	4.67E-6	0.0175
Photochemical oxidant formation potential (POFP)		kg NMVOC eq.	1.13E-2	2.49E-4	2.53E-5	0.0116
Abiotic depletion potential – Elements		kg Sb eq.	2.80E-5	1.03E-6	6.36E-8	2.91E-5
Abiotic depletion potential – Fossil resources		MJ, net calorific value	39.6	1.36	0.0587	41.0
Water scarcity potential		m <sup>3</sup> eq.	19.2	0.0688	3.02E-4	19.3





# Use of Resources

Wave Wide Lora

## Use of Resources – Wave Wide Lora

PARAMETER		UNIT	Upstream	Core	Downstream	TOTAL
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	8.42	0.53	0.01	8.96
	Used as raw materials	MJ, net calorific value	0.00	0.00	0.00	0.00
	TOTAL	MJ, net calorific value	8.42	0.53	0.01	8.96
Primary energy resources – Non-renewable	Use as energy carrier	MJ, net calorific value	46.09	1.73	0.13	47.95
	Used as raw materials	MJ, net calorific value	0.00	0.00	0.00	0.00
	TOTAL	MJ, net calorific value	46.09	1.73	0.13	47.95
Secondary material		kg	0.98	0.00	0.00	0,98
Renewable secondary fuels		MJ, net calorific value	0.00	0.00	0.00	0.00
Non-renewable secondary fuels		MJ, net calorific value	0.00	0.00	0.00	0.00
Net use of fresh water		m <sup>3</sup>	22.8	0.07	3.02E-4	22.9

## Product Characteristics

TEST ITEM	WAVE MAXI LORA	WAVE WIDE LORA
Oscillatory impact performance (visual assessment)	No break after 400 cycles	No break after 400 cycles
Lock durability (visual assessment)	No damage after 5000 cycles	No damage after 5000 cycles
Buckle durability (visual assessment)	N/A	N/A
Zipper durability (visual assessment)	No damage after 5000 cycles	No damage after 5000 cycles
Sewing strength (N)	1131	1786
Plastic buckle durability performance	N/A	N/A
Colour fastness to rubbing (grey scale)	Dry = 4/5 Wet = 4/5	Dry = 4/5 Wet = 4/5
Corrosion resistance of hardware fittings	Number of corrosion spots = 0 Maximum area of single corrosion spot = 0	Number of corrosion spots = 0 Maximum area of single corrosion spot = 0
Shoulder strap folding resistance performance	N/A	N/A



# Product Characteristics

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### Waste Production\*

Parameter	Unit	Upstream		Core		Downstream		Total	
		Maxi	Wide	Maxi	Wide	Maxi	Wide	Maxi	Wide
Hazardous waste disposed	kg	1.95E-4	3.79E-4	4.23E-6	4.23E-6	0.0	0.0	2.0E-4	3.84E-4
Non-hazardous waste disposed	kg	1.88E-2	2.49E-2	4.0E-4	1.7E-4	0.0	0.0	1.90E-2	2.51E-2
Radioactive waste disposed	kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*\*Per declared unit. Only specific (production) data were taken into account for calculation. Secondary data were taken from the Ecoinvent database and, therefore, the related waste indicator is zero.*

### Output Flows

Parameter	Unit	Upstream		Core		Downstream		Total	
		Maxi	Wide	Maxi	Wide	Maxi	Wide	Maxi	Wide
Component for reuse	kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Material for recycling	kg	0.0	0.0	0.049	0.074	0.0	0.0	0.049	0.074
Materials for energy recovery	kg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exported energy, electricity	MJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exported energy, thermal	MJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



# Waste Production and Output Flows

# Thank you!

## References

General Programme Instructions of the International EPD<sup>®</sup> System. Version 4.0. [www.environdec.com](http://www.environdec.com)

+Three website [www.plus3.eco](http://www.plus3.eco)

Pré Sustainability. (2021). SimaPro 9.2.0.1.

Ecoinvent (2021). Version 3.7. <https://ecoinvent.org/database/database.html>

ISO (2000) ISO 14020:2000 Environmental labels and declarations – General principles.

ISO (2006a) ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

ISO (2006b) ISO 14040:2006 Environmental management – Life cycle assessment – Principles and framework.

ISO (2006c) ISO 14044:2006 Environmental management – Life cycle assessment – Requirements and guidelines.