

# EPDs and the International EPD System

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EPD<sup>®</sup>







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**EPD International AB**

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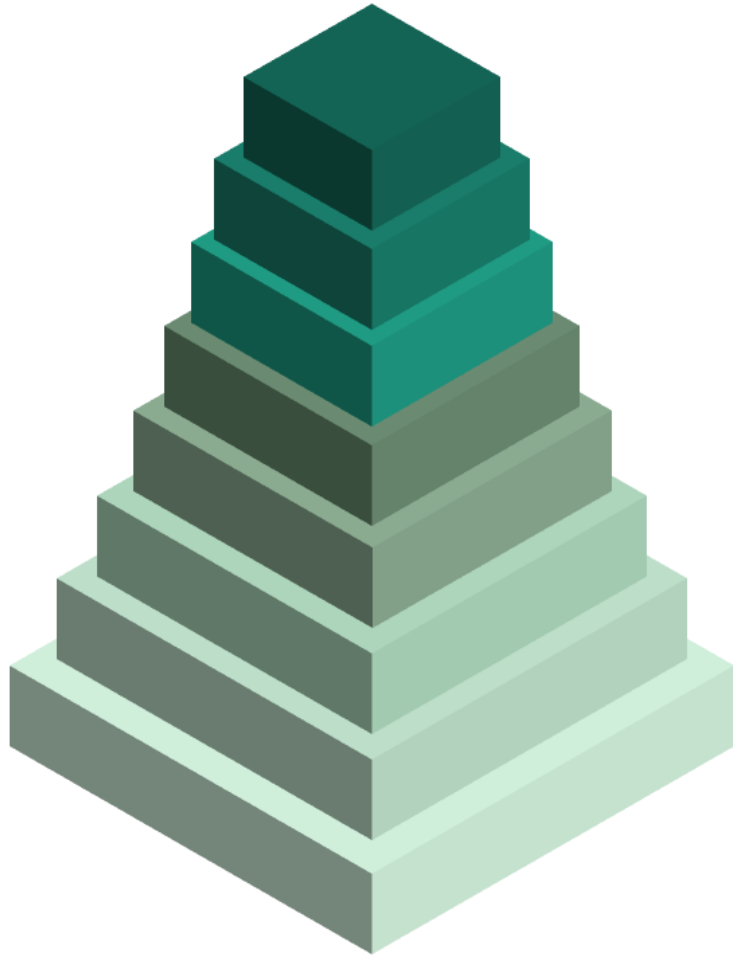
## Agenda

1. What is an Environmental Product Declaration (EPD)?
2. Why an EPD?
3. How do you develop an EPD?
4. The International EPD System
5. An Exciting Update

# Environmental Product Declaration (EPD)

Communicates **transparent, objective, and comparable** information about the environmental impact of one or more products from a life cycle perspective.

- Globally recognized and established communication format for environmental declarations (ISO 14025)
  - An EPD is neither a label nor a claim in ISO terms
  - In an EPD, environmental performance is not compared: 'product X is better than product Y'
- Voluntary and market-driven
- Based on a life cycle assessment (LCA)
- EPD, and underlying LCA, performed according to product category rules (PCR)
- EPD, and underlying LCA, are independently verified
- EPD registered with an EPD program operator (e.g., EPD International)
- Primarily for business-to-business communication, but used in other contexts (see later slide)



## **01 COMPLEMENTARY (C)-PCRS**

Additional requirements for a specific product group within a product category

## **02 PRODUCT CATEGORY RULES (PCRS)**

Specific requirements for one or more product categories

## **03 PRODUCT SPECIFIC STANDARDS**

EN 15804, ISO 29130, etc.

## **04 GENERAL PROGRAMME INSTRUCTIONS**

Regulation on overall administration and operation

## **05 ECO-PLATFORM**

Regulation on administration, calculation and verification

## **06 EPD STANDARDS**

ISO 14025, ISO/TS 14027 and ISO 14029

## **07 LCA STANDARDS**

ISO 14040, ISO 14044, ISO 14067 and ISO/TS 14071

## **08 ORGANISATIONAL STANDARDS**

ISO 9001, ISO 17029 and ISO 17065

## Search the EPD Library

Filter

Product Category

PCR

Geographical scope

Validity

Only sector EPDs

[Search](#)

Showing the first 50 results

- |   |  |  |
|---|--|--|
| <p>FOOD &amp; BEVERAGES</p> <p>S-P-01150</p> <p><b>Barilla Pesti Rustico sauce</b></p> <p>Barilla G. e R. Fratelli</p>                                | <p>FOOD &amp; BEVERAGES</p> <p>S-P-01151</p> <p><b>Barilla Pesto al basilico vegan</b></p> <p>Barilla G. e R. Fratelli</p> | <p>FOOD &amp; BEVERAGES</p> <p>S-P-00494</p> <p><b>Barilla Pesto alla Genovese sauce</b></p> <p>Barilla G. e R. Fratelli</p> |
| <p>FOOD &amp; BEVERAGES</p> <p>S-P-01563</p> <p><b>Barilla durum wheat semolina pasta with 100% Italian wheat</b></p> <p>Barilla G. e R. Fratelli</p> | <p>FOOD &amp; BEVERAGES</p> <p>S-P-02176</p> <p><b>Barilla Emiliane Stuffed Pasta</b></p> <p>Barilla G. e R. Fratelli</p>  | <p>FOOD &amp; BEVERAGES</p> <p>S-P-07356</p> <p><b>LOGROS S.A. Beef Meat</b></p> <p>LOGROS S.A.</p>                          |

## Barilla Pesti Rustici sauce



### Product information

Barilla Pesti Rustici sauces are an original condiment with a rustic consistency that enhances the taste of your dishes. The vegetables, all Mediterranean, are roughly pounded to maintain an intense flavor and the bright colors of seasonal vegetables. A joy for bread and pasta. Pestati sauces are sold in package of 200 grams jar in three recipe: basil and zucchini, basil and olives, dried tomatoes and Mediterranean vegetables. The sauce may be heated up before the consumption.

For more information, please visit <https://www.barilla.com/it-it/ricerca-prodotti/sauce/qamma/pesti>

### Detailed information

Registration number: S-P-01150

Status: Registered

Registration date: June 4, 2018

Version date: November 22, 2022

Valid until: June 29, 2025

Geographical scopes: Italy, Europe

### Company information

Company Name: Barilla G. e R. Fratelli

Country: Italy

Contact: [Laura.Marchelli@barilla.com](mailto:Laura.Marchelli@barilla.com)

Website: <https://www.barillagroup.com/>

### Download documents

[S-P-01150 EPD Pesti rustici sauce 2022.pdf](#)

### Included products in this EPD

Use this QR code to link directly to this page



# 1. BRAND AND PRODUCT

## THE BRAND BARILLA



The Barilla brand has its roots in a small bread and pasta store opened in Parma in 1877.

Today it is the number one pasta in Italy and around the world. Thanks to the best durum wheat and impressive modern technologies, Barilla supplies millions around the world with pasta that always cooks to a perfect al dente texture, as well as ready-to-eat pasta sauces.

Further information on [Barilla website](#).

## THE PLANT AND THE PROCESS

Pesto sauces are produced in an owned plant located in Rubbiano (Italy), where the preparation is very close to what people would do at home.

The process starts from basil preparation (washing and drying); basil is then added to other ingredients and mixed.

Vegetables, all coming from Mediterranean areas, are roughly pounded to maintain an intense flavour and the bright colours of seasonal vegetables. Pesti Rustici sauce undergoes a heat treatment to pasteurize the product while preserving flavour and taste as much as possible over time. The pasteurization treatment, coupled with the integrity of the container, allows us to avoid using any preservatives.

The product is sold in package of 200 grams jar, in four recipes: basil and zucchini, dried tomatoes, Mediterranean vegetables, basil and olives. Sauce may be heated up before the consumption.

## THE PRODUCT



NUTRITIONAL INFORMATION (per 100 g)					
		BASIL AND ZUCCHINIS	BASIL AND OLIVES	MEDITERRANEAN VEGETABLES	DRIED TOMATOES
Energy	kJ	802	874	752	727
	kcal	194	212	182	176
Fats <i>of which saturated</i>	grams	15.5	19	16	14.5
		1.4	1.8	1.4	1
Carbohydrates <i>of which sugars</i>	grams	9.9	6.1	6.9	7.9
		3.4	4.9	5.5	6.8
Fibres	grams	3.5	3.9	2.2	2.8
Proteins	grams	1.9	2.1	1.5	2
Salt	grams	1.65	1.95	1.65	1.55



### 3. ENVIRONMENTAL PERFORMANCE CALCULATION



The environmental performance of the product was calculated using the **LCA (life cycle analysis)** methodology, including the entire production chain, beginning with growing the vegetables up until delivery of the finished product to the shelf.

The study was conducted following the specific product rules (PCR) published by the EPD system: "CPC code 23995 – Sauce". The generic data contributes to the calculation of environmental impacts is lower than 10%.

#### DECLARED UNIT

Data are referred to **1 kg** of product plus the related packaging (the packaging is referred to the **200 g** format, reported to 1 kg of product).

#### SYSTEM BOUNDARIES

The processes constituting the analysed system were organized in upstream, core and downstream processes, in compliance with the requisites of the EPD system.

#### GEOGRAPHICAL SCOPE

The geographical scope of this EPD corresponds to the distribution area of the product; concerning Pesti Rustici sauces, they are sold mainly in European Countries including Italy; however some volumes are distributed also outside Europe.





## 9. ENVIRONMENTAL RESULTS

### PESTO RUSTICO BASIL AND ZUCCHINI

<b>POTENTIAL ENVIRONMENTAL IMPACTS</b> data referred to 1 kg of product		UPSTREAM		CORE	DOWNSTREAM		TOTAL
		Raw material production	Packaging and auxiliary materials production	Production	Distribution up to shelf	Primary packaging end of life	
<b>GLOBAL WARMING POTENTIAL - GWP</b> (g CO <sub>2</sub> eq)	Fossil	7.51E+02	1.08E+03	3.42E+02	3.58E+02	8.49E-01	2.53E+03
	Biogenic	2.41E+01	5.73E+00	4.83E+00	7.37E-01	4.71E-01	3.59E+01
	Land use and land transformation	8.25E+01	1.68E+01	3.79E-03	3.48E-03	3.49E-04	9.93E+01
	<b>Total</b>	<b>8.58E+02</b>	<b>1.10E+03</b>	<b>3.47E+02</b>	<b>3.59E+02</b>	<b>1.32E+00</b>	<b>2.67E+03</b>
Acidification Potential - g SO <sub>2</sub> eq.		1.12E+01	6.29E+00	1.06E+00	1.64E+00	6.23E-03	2.02E+01
Eutrophication Potential - g PO <sub>4</sub> <sup>3-</sup> eq.		5.94E+00	1.00E+00	1.61E-01	1.97E-01	1.25E-03	7.30E+00
Photochemical Oxidant Formation Potential - g NMVOC eq.		3.61E+00	3.58E+00	1.18E+00	1.56E+00	6.53E-03	9.95E+00
Abiotic Depletion Potential - Elements g Sb eq.		1.85E-03	3.51E-02	8.14E-06	1.48E-05	7.13E-08	3.69E-02
Abiotic Depletion Potential - Fossil fuels - MJ, net calorific value		8.15E+00	1.46E+01	5.17E+00	4.87E+00	9.43E-03	3.28E+01
Water scarcity potential, m3 eq.		5.89E+00	9.40E-01	2.84E-01	-7.49E-04	2.21E-05	7.12E+00
<b>WASTE PRODUCTION*</b> data referred to 1 kg of product		UPSTREAM		CORE	DOWNSTREAM		TOTAL
		Raw material production	Packaging and auxiliary materials production	Production	Distribution up to shelf	Primary packaging end of life	
Hazardous waste disposed		3.61E-04	2.79E-02	0.00E+00	0.00E+00	0.00E+00	2.8E-02
Non-Hazardous waste disposed		3.87E+00	2.56E+00	0.00E+00	0.00E+00	0.00E+00	6.4E+00
Radioactive waste disposed		3.94E-05	3.79E-05	4.25E-06	2.62E-06	1.07E-07	8.4E-05

The biogenic contribution to Global Warming Potential refers only to biogenic methane.  
 The contribution given by biogenic CO<sub>2</sub> is equal to zero, since the absorbed amount is equal to the emitted biogenic CO<sub>2</sub> within the reference 100 years period.

\* Only flows coming from processes under direct Barilla control were considered, if not associated to a treatment whose environmental impact is considered. Flows generated by secondary data were excluded (since already accounted for their environmental burden).



**AUSTRALIA EPD**  
ENVIRONMENTAL PRODUCT DECLARATION

**galvanizers**  
ASSOCIATION OF AUSTRALIA

# Environmental Product Declaration for Galvanizers Association of Australia: Hot Dip Galvanizing in Australia

In accordance with EN 15804, ISO 14025 and PCR 2011:16 V2.2  
EPD registration number: S-P-01166  
Date of issue: 26.09.2019  
Valid until: 26.09.2024

**Blattender**

## Environmental Product Declaration

EPD Operator: Original Alu, EPD International AB  
Product: Outward opening Tip-tilting window Alu  
Manufacturer: AHT

EPD registration number: S-P-01166  
Date of issue: 26.09.2019  
Valid until: 26.09.2024

**eka**

Environmental Product Declaration

EPD registration number: S-P-01166  
Date of issue: 26.09.2019  
Valid until: 26.09.2024

## ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025, ISO 21930 and EN 15804+A2 for:

### Supafil Cavity 033, Supafil Multifit

From **KNAUF INSULATION**

Programme operator: The International EPD System, www.epd-international.com  
EPD registration number: S-P-02124  
Publication date: 2022-08-24  
Validity date: 2027-08-24

**EPD**

**EDD**

## Environmental Product Declaration for asphalt mixtures from Halmstad asphalt plant – Biskopstorp

**NCC**

EPD registration number: S-P-01166  
Date of issue: 26.09.2019  
Valid until: 26.09.2024

**EPD**

**EPD**

**TENCATE**  
protectivefabrics | made for life

**STOROTENSO**

# Environmental Product Declaration

In accordance with ISO 14025 for:

CALIK ECLR-OR 606 denim fabric from

## CALIK DENIM

Registration number in The International EPD System: S-P-02097

**ISOVER**

**IBER**

**EPD**

**EPD**

**EPD**

**WATTENFALL**

**EPD**

**EPD**

## ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 for:

CUMAUVER NETO

Registration number in The International EPD System: S-P-02097

**ISOVER**

**EPD**

**EPD**

**FRISTADS**

**EPD**

**WATTENFALL**

**EPD**

## Global 7500 Environmental Product Declaration

**Uppsala**

**FRISTADS**

**EPD**

**STADLER**

**EPD**

## Global 7500 Environmental Product Declaration

**BOMBARDIER**

**FRISTADS**

**EPD**

**THRACE PACK**

**EPD**

**STADLER**

## Leva Chair

From **Foster + Partners**

Programme operator: The International EPD System, www.epd-international.com  
EPD registration number: S-P-02272  
Publication date: 2021-04-30  
Valid until: 2026-02-07

**EPD**

**EPD**

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**EPD**

## ENVIRONMENTAL PRODUCT DECLARATION

# ECONAMID®

FL6 unfilled & reinforced

**DOMO**  
caring is our formula

**EPD**

**EPD**

**EPD**

**EPD**

**EPD**

## Pangri

Classico e integrale

Dichiarazione Ambientale di Prodotto

**Barilla**

**EPD**

## Environmental Product Declaration

In accordance with ISO 14025 for:

### DAUN BUAH™ GRANULATED UREA

From **PT Pupuk Kalimantan Timur PUPUK KALTIM**

Programme operator: The International EPD System, www.epd-international.com  
EPD registration number: S-P-04685  
Publication date: 2021-10-22  
Valid until: 2026-10-21

## Environmental Product Declaration

In accordance with ISO 14025 for:

### Type: benches from MARK

**markproduct.com**

Programme operator: The International EPD System, www.epd-international.com  
EPD registration number: S-P-03305  
Publication date: 2021-07-01  
Valid until: 2026-06-30

**EPD**

**EPD**

## Dichiarazione Ambientale di Prodotto (EPD)

# SERENITY

SOFT DRY PANNOLONI A CINTURA VESTE

**EPD**

**EPD**

**EPD**

**EPD**

**EPD**

**EPD**

## Agenda

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# Why an EPD?

## External Drivers

- Requirements from downstream companies in the supply chain
- "Requirements" in legislation (e.g., climate declarations in Sweden, procurement in the USA, environmental claims (green claims) in the EU)
- Competitive advantage in public procurement
- Benefits in environmental certification systems (e.g., LEED)
- Etc.

## Internal Drivers

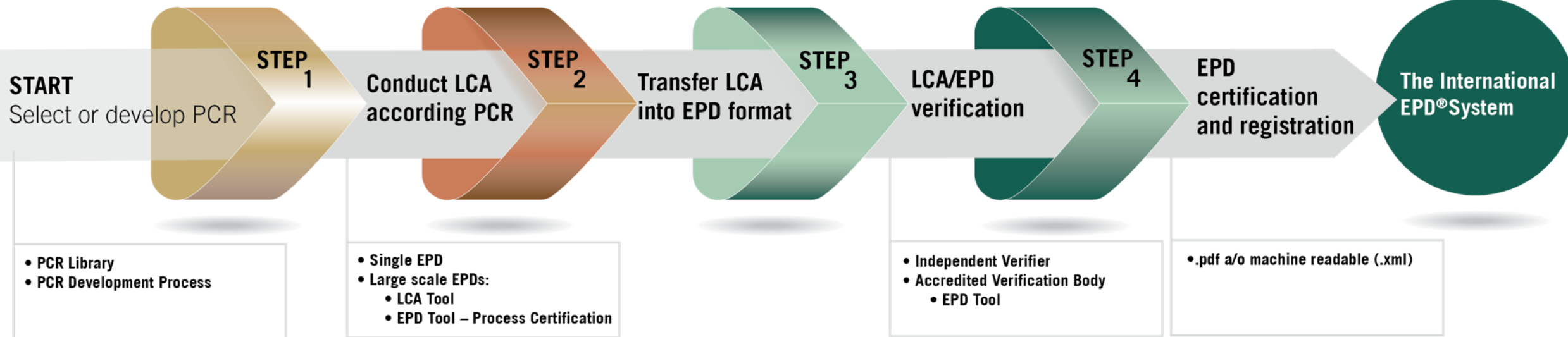
- Sustainability goals at the corporate level
- Marketing
- Product and process development
- Sustainable Supply Chain Management (SSCM)
- Etc.

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# The Process for Creating an EPD



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## International EPD System / EPD International AB

- The first EPD program in the world, founded in Sweden in 1997.
- In 1998, the world's first EPD was released.
- We are proud inventors of EPDs and PCRs.
- Since 2014, a fully owned daughter company of IVL Swedish Environmental Research Institute.
- Our website: [www.environdec.com](http://www.environdec.com)

Published 1999-02-12


**VATTENFALL**  Certified Environmental Product Declaration (EPD),  
hydropower electricity from the Lule river 

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**Manufacturer and Product**

**Manufacturer:**  
Vattenfall AB, 162 87 Stockholm through Vattenfall AB Vattenkraft, 971 77 Luleå,  
[www.vattenfall.se](http://www.vattenfall.se)  
**Contacts:** Sören Ek, +46-920-770 00 (environment and generation, Lule river),  
Birgit Bodlund, +46-8-739 50 00 (certification issues) and Sara Ericsson, +46-8-739 50 00 (sales).

Vattenfall AB Vattenkraft's goal is to have a certified environmental management system, in accordance with ISO 14001, by the end of 1999.



*Map of the Lule river catchment showing the three hydropower plants which have been studied in detail in this certification process.*

## Why Choose EPD International?

- **Global** EPD program with licensees represented in all major markets and continents
- Pricing model that allows you to scale up EPD publication at a **reasonable cost**
- EPDs for **all product categories** – the world’s largest PCR library
- **Global harmonization**
  - Vision: one PCR for each sector/product category
  - Minimizes trade barriers
  - Enables fair comparison of results within the same product categories globally
- We are investing heavily in offering more **digital solutions**
  - Absolutely essential for enabling the production of many high-quality EPDs in a timely manner at competitive costs



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## Now we are launching SPD – Social Product Declaration

- Similar to an EPD, but focusing on social sustainability
- Third-party verified declaration, based on a Social LCA
- The world's first SPD-PCR and the world's first SPD have been developed in a pilot project
- The news about this will soon be released on [www.environdec.com](http://www.environdec.com) – stay tuned!



# Thank you for listening!

## Kontaktinformation

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[www.environdec.com](http://www.environdec.com)

## EPD International AB

Proud Inventors of the PCR and EPD

