

ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021



4 Seasons[™]

High quality 100% acrylic paint for exterior use ____

Owner of the Declaration: DRUCKFARBEN HELLAS S.A. Programme: The International EPD® System www.environdec.com Programme operator: EPD International AB

Registration number	S-P-07619
Issue date	10.01.2023
Revision Date	17.06.2024
Valid to	09.01.2028
Geographical scope	Europe

VERIFIED

This EPD covers multiple products







KRAFTPAINTS.COM f 🐨 in 🤊



Company Description

Druckfarben Group S.A.

- Produces inks for flexography and rotogravure printing.
- In the coatings and mortars division, decorative and architectural products and cementitious putties are commercialized under the KRAFT Paints brand.
- Energy saving / external thermal insulation products are commercialized under the BIOCLIMA brand.



DRUCKFARBEN Group comprises of a group of companies with worldwide activities catering to the ink, coating, and energy saving sectors.

More specifically, **DF Hellas S.A.** produces inks for flexography and rotogravure printing under the **DRUCKFARBEN** brand name using sub-brands for the various applications in the food packaging, plastic bags, cartons, and related products.

In the coatings division it commercializes its decorative and architectural paints products under the **KRAFT PAINTS** brand and in the energy saving/external thermal insulation products under the **BIOCLIMA®** brand. The Group has an important and increasing international presence in Eastern and Central Europe through subsidiaries in Bulgaria, Romania, Serbia, and through representatives in Malta, Turkey, Tunisia, Lebanon, Hungary, Slovenia, Croatia, Albania and Western and North Africa, Israel, and the Gulf countries. In West Africa, the company operates in Nigeria through its own subsidiary and the neighboring countries of the Economic Community of West African States (ECOWAS). The company's strategy includes expanding its export activities to new countries supported by a strong network of local partners.

DRUCKFARBEN holds a significant position in the area of architectural paints, varnishes and mortars related to construction activities under the KRAFT PAINTS brand. Also, under the BIOCLIMA® brand, the company offers a wide range of certified thermal insulation systems for energy upgrading and aesthetic renovation of new and existing buildings.





General information Programme information

Programme:	The International EPD [®] System
Address:	EPD International AB
	Box 210 60
	SE-100 31 Stockholm
	Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com
Accountabilit	ies for PCR, LCA and independent, third-party verification
Product Cate	gory Rules (PCR)
CEN standard	EN 15804 serves as the Core Product Category Rules (PCR)
Product Cate	gory Rules (PCR): PCR 2019:14 Construction products, version 1.2.3
www.environd	as conducted by: The Technical Committee of the International EPD® System. Se lec.com/TC for a list of members. Review chair: Claudia A. Peña, University of Con . The review panel may be contacted via the Secretariat <u>info@environdec.com</u>
Life cycle asse	ssment (LCA)
LCA accountal	oility: Dr. Frank Werner
Third-party ve	rification
	Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
	x EPD verification by accredited certification body
	Third-party verifier:
	Business Quality Verification P.C
Арг	proved certification body accountable for the third-party verification.
	The certification body is accredited by:
	Hellenic Accreditation System with accreditation number 1218.
Proced	Hellenic Accreditation System with accreditation number 1218. ure for follow-up of data during EPD validity involves third-party verifier.





Comparability:

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to EN 15804+A2 and the building context, respectively the product-specific characteristics of performance, are taken into account.

Additional information:

"EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable.

For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

The EPD owner has the sole ownership, liability, and responsibility for the EPD. Additional information can be obtained under: https://kraftpaints.com

Gontact person

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Specification of the products

The declared product is the high quality 100% acrylic paint 4 Seasons[™] which is available in White and 4 tinting bases (P, T, D and A) used outdoor application as a topcoat by DRUCKFARBEN HELLAS S.A. that is marketed under the brand KRAFT Paints.









4 Seasons[™]:

100% acrylic paint of high quality for exterior use: This formula is based in an advanced technology which provides exceptional resistance to dirt and pollutants pick-up, thus keeping the surface clean for longer. It is also very resistant to weather conditions (sun, rain) and to air pollution, for a longer lifetime of the surface. Ideal solution for buildings in densely built-up areas.

The white shade is certified as cool paint featuring high solar reflectance (SR), high infrared emittance (ϵ) and high solar reflectance index (SRI), significantly reducing the temperature of the walls during summer.

The thousands of vibrant shades are durable and resistant to solar radiation. 4 Seasons is easy to apply and offers high coverage and performance. It also features strong adhesion to most surfaces (plaster, concrete, plasterboard, wood) providing great filling with a smooth matt finish.



1020	megaridos Ave., Kallisuri area,									
	24 DoP No 04.23 4 Seasons White EN 1504-2:2004 Coating (C) for surface protection of cor according to principles 1(PI), 2 (MC									
2	Reaction to fire	E								
3	Permeability to CO ₂	sp > 50 m								
Pe	rmeability to Water Vapour	Class I								
Capillary A	bsorption and permeability to water	w < 0.1 kg/m ² · h ^{0.5}								
Adhe	esion strength by pull-off test	≥ 1.0 N/mm ²								
/	Artificial Weathering Test blistering/cracking/flaking)	0(S0) / 0(S0) / 0(S0)								
	Dangerous substances	See SDS								



TECHNICAL DATA

Binder Type	Pure Acrylic
Density ISO 2811 @ 25°C	1.33 - 1.49 g/mL*
Solids Content w/w ISO 3251	59% (±3)
Viscosity ASTM D 562-05 @ 25°C	115KU (±15)
Application Viscosity ASTM D 562-05 @ 25°C	85KU (±15)
Gloss Level @ 60° ISO 2813	<5 GU
Gloss Level @ 85° ISO 2813	<13 GU
рН	9.2 (±0,5)
Whiteness Index ASTM E 313-98	88 (±1,5)**
Yellowness Index ASTM E 313-98	0,5 (±0.5)**
Solar Reflectance (TSR) ASTM G 173	0.89 **
Infrared Emittance (ε) ASTM E 408-71	0.92**
Solar Reflectance Index (SRI) ASTM E1980	113**
Coverage per coat	11 - 13 m²/L***
Recommended dry film thickness (1-2 coats)	70µm (±5)
* Depending on the shade	

** Only for White

*** Depending on the shade, the application method and the surface absorption





KRAFT REFLECTIVE COLLECTION includes 185 unique shades, selected by highly qualified architects and decorators on the facades of buildings. In line with the latest trends of color worldwide, we help you choose the perfect shade for the exterior surfaces of your house.

The result of long research, these 185 shades were created to be used with **KRAFT 4 SEASONS** exterior line of colors. The **4 SEASONS** line of products offers high protection, powder and dust resistance, insulation and protection from rain and moisture, excellent waterproofing and high breathability.

All **REFLECTIVE COLLECTION** shades were created one by one to remain unchangeable over time, by offering to the exterior building a sense of clean and freshly painted for many years.

At the same time, incorporating **KRAFT'S** specialized expertise, these shades are specifically designed to reflect much of the solar radiation, reducing the temperature of the external walls exposed to the sun, by improving energy consumption and upgrading the interior comfort of the occupants.

The value of reflectivity to solar radiation TSR (Total Solar Reflectance), for each color separately, is measured by the National Technical University of Athens, according to the internationally certified measurement standards.



High TSR% Fandeck for exterior walls REFLECTIVE COLLECTION™

185 shades designed only with inorganic colorants



Shade		RC 143
Color Matching	TSR% color matching	Visible spectrum color matching
TSR% ASTM G173	53,1 %	26,0 %
DE	0,85	std





Application of the product

Exterior wall paints such as 4 Seasons[™] are broadly applied on buildings to protect the external walls from humidity and adverse weather conditions. At the same time due to their High Solar Reflection contribute to reduce indoor heat increase during summer months.









4 Seasons[™]

SURFACE PREPARATION

To ensure good adhesion, the surface must be dry, clean and free of dust, grease, residues, blistered paint etc. Avoid dust generation and exposure to it.

- On new surfaces: before applying the topcoat, apply one coat of a primer such as KRAFT ECO DUR AQUA or Kraft DUR.
- On surfaces that need filling: use KRAFT SPACHTEL or KRAFT PUTTY.
- Allow new plaster or concrete to surfaces to cure a minimum of 30 days prior to paint application.

APPLICATION INSTRUCTIONS

- Avoid applying in case of expected rain in the next 4 days.
- Before you start painting, dilute the paint by adding up to 5-10% by volume tap water and stir well.
- Appropriate application tools for this product are brush, roller and airless spray gun.
- The product be tinted with KRAFT IN-SPIRED COLOR tinting system to thousands shades. To ensure product quality required painted the corresponding base selected from the tinting system of KRAFT.
- It is strongly recommended to be tinted with F-shades taken from KRAFT IN-SPIRED COLLECTION for high weather resistance or with the innovative shades of KRAFT REFLECTIVE COLLECTION for high weather resistance, certified from National Technical University of Athens for their high Total Solar Reflection (TSR%).
- For shade and finish consistency, it is advisable to use containers of the same batch number. In case of different batch number it is recommended that they be mixed in a large container. » Apply two coats of KRAFT 4 SEASONSTM for the best result.

- Minimum recoat time: 3-4 hours. » Surface drying time: 1-2 hours at 25°C and 50% relative humidity (drying times are longer in wet/cold conditions).
- Avoid patching after finishing the painting. The difference of the substrate absorbance and application method might cause colour or gloss deviations. If it is necessary to repair apply the paint to the whole surface.
- Do not apply at temperatures below 5°C and above 35°C and above 65% relative humidity.

Composition of the product

The declared product consists of the following components:

	kg/kg	%
Binders	0,324	31%
Fillers	0,245	24%
Solvents	0,0187	2%
Additives	0,111	11%
TiO ₂	0,1534	15%
Water	0,1461	14%
Polypropylene (bucket)	0,033	3%
Steel (handle)	0,004	0%
Polyethylene (packaging foil)	negl.	
Wooden pallet	0,002	0%
	Fillers Solvents Additives TiO ₂ Water Polypropylene (bucket) Steel (handle) Polyethylene (packaging foil)	Binders0,324Fillers0,245Solvents0,0187Additives0,111TiO20,1534Water0,1461Polypropylene (bucket)0,033Steel (handle)0,004Polyethylene (packaging foil)negl.

Content of substances of very high concern

The product does not contain any substances es on the candidate list for substances of very high concern (SVHC) according to REACH (Annex XIV) (list accessed 22.9.2022).





Production Stages



- 1. Weighing water and other raw materials
- 2. Adding thickener
- 3. Mixing
- Adding defoamer, dispersing agent, wetting agent, auxiliary materials and pH regulator
- 5. Mixing
- 6. Adding solids: pigments, additives and fillers
- 7. Dispersion
- 8. Adding water, emulsions, auxiliary materials, preservatives, thickeners and other materials included in the formula
- 9. Mixing





LCA: Calculation rules



Declared unit: The declared unit is 1m² and the declared values represent Kraft 4 Seasons[™], weighted based on the annual production volume in 2021.

Type of EPD: Cradle to gate with options, modules C1-C4, and module D (A1-A3, C, D, and additional modules A4 and A5).

Database used: The LCA was calculated in the latest version of the LCA software SimaPro (version 9.4).





Scenarios and additional technical information

The product does not contain significant quantities of biogenic carbon. The carbon content of multi-use pallets used for transport packaging and paper bats is disregarded.

Information describing the biogenic carbon content at the factory gate

Name	Value	Unit
Biogenic Carbon Content in product	0	kg C
Biogenic Carbon Content in accompanying packaging	0	kg C

The following technical information is a basis for the declared modules or can be used for developing specific scenarios in the context of a building assessment.

Transport to the construction site (A4): Module A4 contains the average transport scenario from the production site to the construction site. An average transport distance of 300 km is assumed.

Parameter unit expressed per functional/declared unit
Used dataset: Transport, freight, lorry >32 metric ton, EURO5 {RER} transport, freight, lorry >32 metric ton, EURO5 Cut-off, U
300 km
as in ecoinvent 3.8 database
Not applicable (transport weight of product and packaging), per m² as installed: 0.106 kg/m² (packaging: 0.041 kg/m²)
Not applicable





Installation in the building (A5)

The products are delivered to the construction site. There, water is added to dilute the primer and paint to make it ready for use.

Manual application is assumed, eventual further inputs (e.g., electricity consumption for the mixing), are disregarded.

No losses of paint during application are taken into account.

During installation, some VOC are emitted; emission levels are based on data reported in the technical datasheet (density per litre, VOC emissions/l).

The packaging material (plastic buckets and their steel handles, PE-foil and wooden pallets is assumed to be transported 50 km with a lorry 16-32 metric ton, EURO5 to a landfill.

For the multi-way pallets, a reuse rate of 20 times is taken into account in the disposal scenario.

arameter	Parameter unit expressed per functional/declared unit
ncillary materials for installation specified by material);	Water is added (see below)
ater use	0,024 kg/m²
her resource use	0 kg
uantitative description of energy pe (regional mix) and consumption rring the installation process	0 kWh (manual installation)
astage of materials on the ilding site before waste processing, nerated by the product's stallation (specified by type)	kg
put materials ecified by type) as result	Polypropylene to landfill: 0,0513 kg/m²
waste processing at the ilding site e.g. of collection	Polyethylene to landfill: 0,00057 kg/m²
r recycling, for energy recovery, sposal (specified by route)	Wood to landfill: 0,000225 kg/m²
rect emissions to ambient air, il and water	VOC emissions during curing: 0,0028 kg/m ²





End-of-life (C1 - C4)

Wall paints are not removed from the wall material during de-construction. Thus, no environmental impacts are declared in module C1.

A landfilling scenario is assumed for Greece, similar to a disposal scenario for bricks or concrete. A default distance of 50 km is assumed between the de-construction site and the landfill. The amount to be landfilled is calculated as the area weight as applied minus the amount of diluting water and minus the water contained in the undiluted paint.

Processes	Parameter unit expressed per functional / declared unit of components, products or materials (specified by type of material)		
Collection process	0 kg collected separately		
specified by type	0,0906 kg/m ² collected with mixed construction waste		
D	0 kg for re-use		
Recovery system specified by type	0 kg for recycling		
	0 kg for energy recovery		
Disposal specified by type	0,0906 kg/m² going to landfill		
Assumptions for scenario development, (e.g. transportation)	see above		





Reuse, recovery and recycling potential (D)

Not relevant for the declared product

Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED)

	PRODUCT STAGE		CONSTRUCTION	PROCESS STAGE				USE STAGE					END OF LIFE	STAGE		RESOURCE RRECOVERY 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	Α3	Α4	A 5	B1	B2	B 3	B4	B 5	B6	B7	C 1	C 2	C 3	C 4	D
Modules declared	х	Х	Х	Х	Х	Q	Q	Q	Q	Q	Q	Q	Х	Х	х	Х	Х
Geography	GR			h-East ope								S		n-Ea ope	st	-	
Specific data used	> 90%		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Variation products		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation sites		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-





RESULTS OF THE LCA - ENVIRONMENTAL IMPACTS according to EN 15804+A2: 1m² of KRAFT 4 Seasons[™]

Core Indicator	Unit	A1-A3	Α4	Α5	C1	C2	C 3	C4	D
GWP total	kg $\rm CO_2$ eq	3.35E-01	4.00E-03	7.22E-03	0	7.53E-04	0	4.77E-04	0
GWP fossil	kg CO $_2$ eq	3.34E-01	4.00E-03	6.90E-03	0	7.52E-04	0	4.77E-04	0
GWP biogenic	kg CO ₂ eq	-3.19E-04	0.00E+00	3.19E-04	0	0.00E+00	0	0.00E+00	0
GWP luluc	kg $\rm CO_2$ eq	1.89E-03	1.44E-06	3.04E-07	0	2.95E-07	0	4.50E-07	0
GWP-GHG	kg CO2 eq.	3,36E-01	4,00E-03	6,90E-03	0	7,53E-04	0	4,77E-04	0
ODP	kg CFC11 eq	4.64E-08	9.55E-10	2.65E-10	0	1.74E-10	0	1.93E-10	0
AP	mol H⁺ eq	2.97E-03	1.67E-05	5.67E-06	0	3.05E-06	0	4.48E-06	0
EP freshwater	kg P eq	1.34E-05	2.73E-08	7.57E-09	0	5.28E-09	0	5.00E-09	0
EP-marine	kg N eq	2.97E-04	5.04E-06	3.08E-06	0	9.10E-07	0	1.55E-06	0
EP terrestrial	mol N eq	3.00E-03	5.56E-05	2.17E-05	0	1.01E-05	0	1.71E-05	0
POCP	kg NMVOC eq	1.18E-03	1.79E-05	2.29E-03	0	3.08E-06	0	4.97E-06	0
ADPE	kg Sb eq	2.81E-06	9.17E-09	3.07E-09	0	2.62E-09	0	1.09E-09	0
ADPF	MJ	7.75E+00	6.23E-02	1.86E-02	0	1.14E-02	0	1.33E-02	0
WDP	m³ depriv.	2.76E-01	2.14E-04	1.12E-03	0	3.41E-05	0	5.99E-04	0
		÷ ·	ential; ODP = De			•			

 GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP =

 Caption
 Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non- fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential





RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1m² of KRAFT 4 Seasons[™]

Indicator	Unit	A1-A3	Α4	Α5	C 1	C2	C 3	C4	D
PERE	MJ (Hu)	4.55E-01	7.81E-04	6.18E-04	0	1.58E-04	0	1.11E-04	0
PERM	MJ (Hu)	3.41E-03	0	0	0	0	0	0	0
PERT	MJ (Hu)	4.58E-01	7.81E-04	6.18E-04	0	1.58E-04	0	1.11E-04	0
PENRE	MJ (Hu)	4.35E+00	6.23E-02	1.86E-02	0	1.14E-02	0	1.33E-02	0
PENRM	MJ (Hu)	3.42E+00	0	0	0	0	0	0	0
PENRT	MJ (Hu)	7.77E+00	6.23E-02	1.86E-02	0	1.14E-02	0	1.33E-02	0
SM	kg	1.46E-03	0	0	0	0	0	0	0
RSF	MJ (Hu)	0	0	0	0	0	0	0	0
NRSF	MJ (Hu)	0	0	0	0	0	0	0	0
FW	m ³	5.80E-03	6.53E-06	3.27E-06	0	1.19E-06	0	9.62E-07	0
Contion	materials;	e of renewable p PERM = Use of r ole primary ener	enewable prima	ary energy reso	urces u	ised as raw ma	terials;	PERT = Total u	

Caption

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non- renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of non-renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of non-renewa





RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1m² of KRAFT 4 Seasons[™]

Indicator	Unit	A1-A3	Α4	Α5	C1	C2	С3	C4	D
HWD	kg	6.88E-06	1.51E-07	3.20E-08	0	2.97E-08	0	2.01E-08	0
NHWD	kg	1.41E-01	5.85E-03	5.25E-02	0	5.89E-04	0	9.05E-02	0
RWD	kg	3.61E-05	9.04E-07	2.60E-07	0	1.65E-07	0	1.88E-07	0
CRU	kg	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0

Caption

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy





RESULTS OF THE LCA - additional impact categories according to EN 15804+A2-optional: 1m² of KRAFT 4 Seasons[™]

Indicator	Unit	A1-A3	Α4	Α5	C1	C2	С3	C4	D
PM	Desease incidences	1.86E-08	4.69E-10	1.23E-10	0	6.47E-11	0	9.02E-11	0
IR	kBq U-235 eq	1.75E-02	2.70E-04	8.40E-05	0	4.94E-05	0	5.45E-05	0
ETP-fw	CTUe	5.98E+00	4.87E-02	3.48E-02	0	8.88E-03	0	8.41E-03	0
HTP-c	CTUh	4.95E-10	1.35E-12	5.43E-13	0	2.88E-13	0	2.13E-13	0
HTP-nc	CTUh	5.83E-09	5.33E-11	1.53E-10	0	9.31E-12	0	5.53E-12	0
SQP	-	2.05E+00	7.13E-02	3.50E-02	0	7.82E-03	0	2.80E-02	0
Caption	PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential compar- ative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index								





Relative contributions to the life cycle impacts

Disclaimer 1: for the indicator IR

This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Disclaimer 2: for the indicators ADPE, ADPF, WDP, ETP-fw, HTP-c, HTP-nc, SQP

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





Revision details: Addition of GWP-GHG indicators and new product certificates

References

EN 15804: 2012+A2: 2019: Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products.

ISO 14025: 2006: Environmental labels and declarations - Type III environmental declarations - Principles and procedures.

ISO 15686-(several parts): Buildings and constructed assets - Service life planning.

ISO 14020:2000: Environmental labels and declarations - General principles.

ISO 14040:2006: Environmental management - Life cycle assessment - Principles and framework.

ISO 14044:2006: Environmental management - Life cycle assessment - Requirements and guidelines.

Waste Framework Directive: COUNCIL REGULATION (EU) No 333/2011 of 31 March 2011 establishing criteria determining when certain types of scrap metal cease to be waste under Directive 2008/98/EC of the European Parliament and of the Council.

ECHA: The Candidate List of substances of very high concern, available via https://echa.euro-pa.eu/nl/-/four-newsubstances-added-to-the-candidate-list.

EPD International: PCR 2019:14 Construction products and construction services, version 1.2.3., dated 2022-07-08. ww.environdec.com

EPD International: General Programme Instructions of the International EPD[®] System. Version 4.0., dated 2021-03-29. ww.environdec.com

Weidema et al. (2013): Weidema, B., C. Bauer, R. Hischier, C. Mutel, T. Nemecek, J. Reinhard, C.O. Vadenbo, G. Wernet (2013): Overview and methodology, Data quality guideline for the ecoinvent database version 3. ecoinvent report no. 1 (v3), St. Gallen, Schweiz.







ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025 and EN 15804+A2

Owner of the Declaration	DRUCKFARBEN HELLAS S.A.					
Programme operator	EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden. Website: www.environdec.com					
Publisher	EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden. Website: www.environdec.com					
Registration number	S-P-07619					
lssue date	10.01.2023					
Valid to	09.01.2028					

Third-party verifier:



Business Quality Verification P.C.



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