

ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025 and EN 15804



DURACEM CONCRETE DESIGN FLOORS

COMPANY INFORMATION / DECLARATION OWNER

Manufacturer: Duracryl International BV
Production Location: Duracryl international BV
Address: Elandstraat 91
2901BK Capelle aan den IJssel
E-mail: info@duracryl.com
Website: www.duracryl.com

EPD INFORMATION

Calculation number: EPD-NIBE-20210105-15711
Date of issue: 01-01-2021
End of validity: 31-12-2025
Version NIBE's EPD Application: v2.0
Version database: v2.95 (2020-12-03)
PCR: Horizontal PCR INSIDE/INSIDE v1.2
2018-12-10

VERIFICATION OF THE DECLARATION

CEN standard EN 15804:2012 serves as the core PCR
Independent verification of the declaration. according to EN ISO 14025:2010. ☒ Internal ☐ External

DECLARED UNIT

m²

One square meter of **Duracem Concrete Design Floors** with a thickness of 2mm. Included are production (A1-A3) of the product, assembly in the project (A4 and A5), necessary maintenance (B2) and repairs (B3). Also including the end-of-life scenario (C1-C4) and Module D. The modules B1, B3, B5, B6 and B7 are not applicable and are set equal to 0. As prescribed in the Horizontal PCR of Inside/Inside module A4 is declared for 1 km and modules B2 and B3 are declared for 1 year.

Calculation is made in accordance with the Horizontal PCR of Inside version 1.2 and the Product PCR Floorcovering version 1.0.

SCOPE OF DECLARATION

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	MND	MND	MND	MND	X	X	X	X	X

(X = included, MND = module not declared)

PRODUCT DESCRIPTION

DESCRIPTION OF THE MANUFACTURING PROCESS

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RESULTS

Impact category	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	4.24E-5	2.36E-7	5.53E-7	1.08E-9	4.59E-7	0.00E+0	1.11E-6	0.00E+0	0.00E+0	6.94E-8	7.27E-8	3.97E-9	-2.81E-6	4.21E-5
ADPF	MJ	8.51E+1	1.29E+0	3.30E+0	5.91E-3	1.06E+0	0.00E+0	2.58E+0	0.00E+0	0.00E+0	3.80E-1	1.29E-1	1.19E-1	-1.00E+1	8.40E+1
AP	Kg SO2 Equiv.	1.06E-1	3.60E-4	6.21E-4	1.64E-6	1.11E-3	0.00E+0	9.34E-4	0.00E+0	0.00E+0	1.06E-4	4.78E-5	2.72E-5	-3.76E-3	1.05E-1
ODP	Kg CFC-11 Equiv.	7.86E-7	1.55E-8	1.07E-8	7.08E-11	1.09E-8	0.00E+0	1.82E-8	0.00E+0	0.00E+0	4.55E-9	1.11E-9	1.47E-9	-4.10E-8	8.07E-7
GWP	Kg CO2 Equiv.	1.28E+0	8.30E-2	1.53E-1	3.79E-4	9.58E-2	0.00E+0	1.89E-1	0.00E+0	0.00E+0	2.44E-2	2.50E-2	3.66E-3	-9.68E-1	8.89E-1
EP	Kg PO43- Equiv.	5.80E-2	7.25E-5	8.67E-5	3.31E-7	5.90E-4	0.00E+0	1.55E-4	0.00E+0	0.00E+0	2.13E-5	1.20E-5	5.77E-6	-5.16E-4	5.84E-2
POCP	Kg Ethene Equiv.	4.27E-3	4.93E-5	7.98E-5	2.25E-7	4.81E-5	0.00E+0	6.21E-5	0.00E+0	0.00E+0	1.45E-5	9.58E-6	4.01E-6	-2.30E-4	4.30E-3
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	MJ	5.10E+1	1.36E-2	2.05E-1	6.21E-5	5.26E-1	0.00E+0	1.97E-1	0.00E+0	0.00E+0	3.99E-3	1.33E-2	1.61E-3	-8.47E-1	5.11E+1
PENRE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PENRM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PENRT	MJ	8.91E+1	1.38E+0	3.53E+0	6.30E-3	1.10E+0	0.00E+0	2.46E+0	0.00E+0	0.00E+0	4.05E-1	1.53E-1	1.30E-1	-9.33E+0	8.89E+1
SM	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	1.79E-1	2.20E-4	1.92E-3	1.00E-6	1.98E-3	0.00E+0	7.57E-3	0.00E+0	0.00E+0	6.46E-5	2.84E-4	1.44E-4	-1.11E-2	1.80E-1
HWD	Kg	9.43E-5	8.25E-7	2.51E-5	3.77E-9	1.57E-6	0.00E+0	4.65E-6	0.00E+0	0.00E+0	2.42E-7	1.97E-7	4.20E-8	-1.19E-5	1.15E-4
NHWD	Kg	4.75E-1	7.90E-2	1.31E-2	3.61E-4	2.04E-2	0.00E+0	2.54E-2	0.00E+0	0.00E+0	2.32E-2	6.04E-2	8.61E-1	-1.05E-1	1.45E+0
RWD	Kg	3.08E-4	8.73E-6	7.71E-6	3.99E-8	3.77E-6	0.00E+0	6.69E-6	0.00E+0	0.00E+0	2.56E-6	9.16E-7	8.41E-7	-2.14E-5	3.18E-4
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.17E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.01E+0	0.00E+0	0.00E+0	2.03E+0
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.46E-1	4.46E-1
EET	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.82E-1	2.82E-1
EEE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.64E-1	1.64E-1

Impact categories: ADPE=Depletion of abiotic resources-elements | ADPF=abiotic depletion of fossil resources | AP=Acidification of soil and water | ODP=Ozone layer depletion | GWP=Global warming | EP=Eutrophication | POCP=Photochemical oxidants creation

Parameters: PERE=renewable primary energy ex. raw materials | PERM=renewable primary energy used as raw materials | PERT=renewable primary energy total | PENRE=non-renewable primary energy ex. raw materials | PENRM=non-renewable primary energy used as raw materials | PENRT=non-renewable primary energy total | SM=use of secondary material | RSF=use of renewable secondary fuels | NRSF=use of non-renewable secondary fuels | FW=use of net fresh water | 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 | EE=Exported energy | EET=Exported Energy Thermic | EEE=Exported Energy Electric

ADDITIONAL INFORMATION

Allocation

There is no allocation applied for the environmental profiles / datasets used in this LCA.