

Result summary

991 Europlan Direct Rapid

Forbo Eurocol Nederland B.V.

Calculation number:	ReTHiNK-58681
Generation on:	22-03-2024
Issue date:	22-03-2024
Valid until:	22-03-2029
Status:	verified

R<THiNK



1 General information

1.1 PRODUCT

991 Europlan Direct Rapid

1.2 VALIDITY

Issue date: 22-03-2024

Valid until: 22-03-2029

1.3 OWNER OF THE DECLARATION



Manufacturer: Forbo Eurocol Nederland B.V.

Address: Industrieweg 1-2, 1520AC Wormerveer

E-mail: info.eurocol@forbo.com

Website: <https://www.forbo.com/eurocol/nl-nl/>

Production location: Eurocol Nederland B.V

Address production location: Industrieweg 1, 1521NA Wormerveer

1.4 VERIFICATION OF THE DECLARATION

The independent verification is in accordance with the ISO 14025:2011. The LCA is in compliance with ISO 14040:2006 and ISO 14044:2006. The EN 15804:2012+A2:2019 serves as the core PCR.

Internal External



Martijn van Hovell, SGS Search / Intron

1.5 PRODUCT CATEGORY RULES

NMD Determination method Environmental performance Construction works v1.1 March 2022

1.6 FUNCTIONAL UNIT

1 kg 991 Europlan Direct Rapid

De productie (A1-A3) van één kilogram 991 Europlan Direct Rapid egaliseermiddel, inclusief verpakkingsmateriaal transport naar de bouwplaats (A4) en verwerking (A5). Tevens is de eindelevensduur (C2-D) beschouwd. Fase B2, B3 en C1 zijn beschouwd maar niet van toepassing, derhalve zijn er 0 waarden weergegeven.

reference_unit: kilogram (kg)

1.7 CONVERSION FACTORS

Description	Value	Unit
reference_unit	1	kg
Conversion factor to 1 kg	0.999800	kg

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options LCA. The life cycle stages included are as shown below: (X = module included, ND = module not declared)

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

The modules of the EN15804 contain the following:

Module A1 = Raw material supply Module B5 = Refurbishment

1 General information

Module A2 = Transport	Module B6 = Operational energy use
Module A3 = Manufacturing	Module B7 = Operational water use
Module A4 = Transport	Module C1 = De-construction / Demolition
Module A5 = Construction - Installation process	Module C2 = Transport
Module B1 = Use	Module C3 = Waste Processing
Module B2 = Maintenance	Module C4 = Disposal
Module B3 = Repair	Module D = Benefits and loads beyond the product system boundaries
Module B4 = Replacement	

1.9 COMPARABILITY

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, the definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general program instructions of different EPDs programs may differ. Comparability needs to be evaluated. For further guidance, see EN 15804+A2 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

2 Product

2.1 PRODUCT DESCRIPTION

De 991 Europlan Direct Rapid is een zeer sneldrogend, zelfuitvloeiend en zeer hoogwaardig egalisatiemiddel met ingebouwde primer voor het rechtstreeks egaliseren van cementgebonden en andere steenachtige ondervloeren

2.2 APPLICATION (INTENDED USE OF THE PRODUCT)

Voor het egaliseren in laagdiktes tot 20 mm van cementgebonden en andere steenachtige ondervloeren. Bij een laagdikte tot 2 mm, een omgevingstemperatuur van 18° - 20 °C en een relatieve luchtvochtigheid < 70% is de aangebrachte egalisatielaag na 1,5 - 3 uur legklaar voor linoleum, naaldvilt, tapijt, pvc- en rubber vloerbedekking. Voor linoleum, naaldvilt en tapijt geldt een maximaal restvochtpercentage in de ondervloer van 3,5 CM-%. Bij toepassing van een pvc- of rubber vloerbedekking is dit respectievelijk 2,5 en 2,0 CM-%. Parket en kurk na minimaal 12 uur aanbrengen. Hierbij mag het restvochtpercentage de 2,5 CM-% niet overschrijden. In geval van verpompen: Raadpleeg vooraf bij de pompleverancier of de pomp geschikt is voor alle soorten egalisaties. pompen met een te hoge mengsnelheid kan de oorzaak zijn van onvoldoende vloeï van het egalisatiemiddel.

2.3 DESCRIPTION PRODUCTION PROCESS

Via verticaal transport worden de grondstoffen middels vijzels in menger gedoseerd en gemengd, waarna het eindproduct in zakken wordt afgevuld. Tijdens (en na) productie vinden er geen emissies plaats.

2.4 CONSTRUCTION DESCRIPTION

- Voeg 23 kg 991 Europlan Direct Rapid toe aan 5 - 5,5 liter koel en schoon leidingwater.
- Meng de mortel mechanisch met het Eurocol 855 Mengijzer tot een egaal en klontvrij geheel.
- Laat de aangemaakte mortel ca. 3 minuten rijpen en roer daarna de mortel kortstondig, met een laag toerental, door.
- De mortel binnen 15 minuten op de vloer aanbrengen met een vlakspaan of rakel. Bij verpompen van de 991 Europlan Direct Rapid de mengunit zo instellen, dat 23 kg 991 Europlan Direct Rapid 5 - 5,5 liter koel en schoon leidingwater wordt toegevoegd.
- Zojuist aangebrachte egalisatielagen beschermen tegen tocht en directe zonlichtinval.
- Indien het noodzakelijk is de aangebrachte egalisatielaag te schuren, gebruik hiervoor een schuurgas met grofte 100 of fijner. De vloer na het schuren zorgvuldig stofvrij maken met een industriestofzuiger. Indien nodig de vloer voorstrijken met 049 Europrimer ABS of 099 Dispersieprimer met een schuimroller Droogtijd ca. 1 uur.
- Bij het aanbrengen van dikkere lagen adviseren wij om 802 Eurostrip Basic en/of 806 Eurostrip Profile toe te passen.
- Onder normale omstandigheden is de aangebrachte egalisatielaag na ca. 1 - 1,5 uur beloopbaar. Bij een laagdikte tot 2 mm en een temperatuur van 18 - 20 °C is de egalisatielaag na 1,5 - 3 uur legklaar mits het maximaal toegestane restvochtpercentage niet wordt overschreden (zie onder toepassing).
- Hogere temperaturen versnellen en lagere temperaturen vertragen de verwerking en droging van de 991 Europlan Direct Rapid.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER KILOGRAM

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
AP	mol H+ eqv.	1.46E-3	6.96E-4	8.01E-5	1.18E-4	1.27E-4	2.58E-6	3.95E-5	1.01E-5	5.00E-7	-3.68E-5	2.49E-3
GWP-total	kg CO2 eqv.	4.45E-1	8.19E-2	9.36E-3	2.04E-2	4.22E-2	1.12E-3	6.82E-3	1.62E-3	5.28E-5	-9.46E-3	5.99E-1
GWP-b	kg CO2 eqv.	1.13E-3	1.04E-4	-7.34E-3	9.40E-6	-3.02E-4	1.21E-5	3.15E-6	9.33E-6	1.04E-7	-2.34E-5	-6.40E-3
GWP-f	kg CO2 eqv.	4.42E-1	8.18E-2	1.66E-2	2.04E-2	4.24E-2	1.10E-3	6.82E-3	1.61E-3	5.27E-5	-9.43E-3	6.03E-1
GWP-luluc	kg CO2 eqv.	1.36E-3	4.33E-5	1.06E-4	7.46E-6	7.70E-5	3.26E-7	2.50E-6	3.07E-7	1.47E-8	-4.95E-6	1.59E-3
EP-m	kg N eqv.	3.16E-4	2.21E-4	1.89E-5	4.16E-5	3.27E-5	5.54E-7	1.39E-5	4.02E-6	1.72E-7	-1.04E-5	6.38E-4
EP-fw	kg P eqv.	8.17E-6	1.22E-6	1.43E-6	2.05E-7	6.00E-7	6.30E-8	6.88E-8	5.02E-8	5.90E-10	-1.73E-7	1.16E-5
EP-T	mol N eqv.	3.56E-3	2.44E-3	1.90E-4	4.59E-4	3.64E-4	6.78E-6	1.54E-4	4.47E-5	1.90E-6	-1.20E-4	7.11E-3
ODP	kg CFC 11 eqv.	2.49E-8	1.68E-8	1.02E-9	4.49E-9	2.89E-9	5.35E-11	1.50E-9	2.09E-10	2.17E-11	-1.05E-9	5.08E-8
POCP	kg NMVOC eqv.	1.28E-3	6.75E-4	4.88E-5	1.31E-4	1.15E-4	1.68E-6	4.39E-5	1.22E-5	5.51E-7	-3.44E-5	2.28E-3
ADP-f	MJ	7.35E+0	1.21E+0	2.81E-1	3.07E-1	4.76E-1	1.45E-2	1.03E-1	2.16E-2	1.47E-3	-1.47E-1	9.62E+0
ADP-mm	kg Sb-eqv.	4.08E-6	1.71E-6	1.43E-7	5.16E-7	3.52E-7	4.45E-9	1.73E-7	4.55E-9	4.82E-10	-2.22E-7	6.76E-6
WDP	m3 world eqv.	1.64E-1	5.20E-3	9.22E-3	1.10E-3	9.74E-3	1.11E-4	3.68E-4	9.80E-5	6.60E-5	-6.33E-2	1.27E-1

AP=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN15084+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
ETP-fw	CTUe	4.77E+0	1.09E+0	2.90E-1	2.74E-1	5.01E-1	1.47E-2	9.17E-2	1.75E-2	9.55E-4	-9.46E-2	6.96E+0
PM		1.01E-8	6.74E-9	5.70E-10	1.83E-9	1.06E-9	8.48E-12	6.13E-10	2.23E-10	9.72E-12	-5.66E-10	2.06E-8

ETP-fw=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **HTP-c**=Human toxicity, cancer (HTP-c) | **HTP-nc**=Human toxicity, non-cancer (HTP-nc) | **IR**=Ionising radiation, human health (IR) | **SQP**=Land use (SQP)

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Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
	disease incidence											
HTP-c	CTUh	9.95E-11	4.37E-11	5.75E-12	8.88E-12	1.07E-11	2.53E-13	2.97E-12	4.16E-13	2.21E-14	-3.65E-12	1.69E-10
HTP-nc	CTUh	3.82E-9	1.19E-9	1.82E-10	3.00E-10	3.36E-10	8.24E-12	1.00E-10	1.18E-11	6.79E-13	-9.83E-11	5.85E-9
IR	kBq U235 eqv.	1.17E-2	5.37E-3	6.45E-4	1.29E-3	1.03E-3	2.99E-5	4.31E-4	6.86E-5	6.04E-6	-2.54E-4	2.03E-2
SQP	Pt	1.24E+0	9.51E-1	3.11E-1	2.66E-1	1.49E-1	2.98E-3	8.92E-2	3.61E-3	3.09E-3	-7.18E-2	2.94E+0

ETP-fw=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **HTP-c**=Human toxicity, cancer (HTP-c) | **HTP-nc**=Human toxicity, non-cancer (HTP-nc) | **IR**=Ionising radiation, human health (IR) | **SQP**=Land use (SQP)

CLASSIFICATION OF DISCLAIMERS TO THE DECLARATION OF CORE AND ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS

ILCD classification	Indicator	Disclaimer
ILCD type / level 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD type / level 2	AAcidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None
	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
ILCD type / level 3	Potential Human exposure efficiency relative to U235 (IRP)	1
	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2

3 Results

ILCD classification	Indicator	Disclaimer
	Potential Soil quality index (SQP)	2

Disclaimer 1 – 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 – 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.

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A1

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
ADPE	Kg Sb	4.08E-6	1.71E-6	1.47E-7	5.16E-7	3.52E-7	4.45E-9	1.73E-7	4.55E-9	4.82E-10	-2.22E-7	6.77E-6
GWP	Kg CO2 Equiv.	4.35E-1	8.10E-2	1.65E-2	2.02E-2	4.20E-2	1.09E-3	6.76E-3	1.59E-3	5.17E-5	-9.26E-3	5.95E-1
ODP	Kg CFC-11 Equiv.	2.18E-8	1.35E-8	9.80E-10	3.58E-9	2.51E-9	5.38E-11	1.20E-9	1.74E-10	1.72E-11	-9.16E-10	4.30E-8
POCP	Kg Ethene Equiv.	2.66E-4	5.53E-5	8.53E-6	1.22E-5	1.79E-5	1.62E-7	4.08E-6	9.09E-7	5.51E-8	-4.17E-6	3.61E-4
AP	Kg SO2 Equiv.	1.17E-3	5.34E-4	6.31E-5	8.88E-5	1.00E-4	2.04E-6	2.97E-5	7.36E-6	3.78E-7	-2.84E-5	1.97E-3
EP	Kg PO43- Equiv.	1.92E-4	8.88E-5	1.39E-5	1.74E-5	1.69E-5	4.20E-7	5.84E-6	1.64E-6	7.29E-8	-4.49E-6	3.33E-4

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

NATIONAL ANNEX NMD

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
ADPF	Kg Sb	3.57E-3	5.80E-4	1.44E-4	1.48E-4	2.32E-4	8.21E-6	4.97E-5	1.13E-5	7.04E-7	-7.78E-5	4.66E-3
HTP	kg 1.4 DB	8.70E-2	3.53E-2	3.89E-3	8.50E-3	7.93E-3	1.23E-4	2.85E-3	3.78E-4	2.34E-5	-2.27E-3	1.44E-1
FAETP	kg 1.4 DB	3.43E-3	8.96E-4	8.04E-4	2.48E-4	3.32E-4	3.38E-6	8.31E-5	6.53E-6	5.54E-7	-3.42E-5	5.77E-3
MAETP	kg 1.4 DB	5.78E+0	3.32E+0	3.13E-1	8.93E-1	6.92E-1	1.43E-2	2.99E-1	2.46E-2	1.98E-3	-1.42E-1	1.12E+1

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity, fresh water | **MAETP**=Ecotoxicity, marine water (MAETP) | **TETP**=Ecotoxicity, terrestrial

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Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
TETP	kg 1.4 DB	8.96E-4	1.33E-4	1.90E-4	3.00E-5	6.59E-5	5.56E-6	1.01E-5	4.64E-6	5.87E-8	-1.13E-5	1.32E-3

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity, fresh water | **MAETP**=Ecotoxicity, marine water (MAETP) | **TETP**=Ecotoxicity, terrestrial

3.2 INDICATORS DESCRIBING RESOURCE USE AND ENVIRONMENTAL INFORMATION BASED ON LIFE CYCLE INVENTORY (LCI)

PARAMETERS DESCRIBING RESOURCE USE

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
PERE	MJ	2.62E-1	2.94E-2	8.00E-3	3.84E-3	1.64E-2	1.56E-3	1.29E-3	1.23E-3	1.19E-5	-4.18E-3	3.20E-1
PERM	MJ	0.00E+0	0.00E+0	6.99E-2	0.00E+0	3.49E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.34E-2
PERT	MJ	2.62E-1	2.94E-2	7.79E-2	3.84E-3	1.99E-2	1.56E-3	1.29E-3	1.23E-3	1.19E-5	-4.18E-3	3.93E-1
PENRE	MJ	5.17E+0	1.29E+0	2.35E-1	3.26E-1	3.71E-1	1.55E-2	1.09E-1	2.31E-2	1.56E-3	-1.51E-1	7.39E+0
PENRM	MJ	2.70E+0	0.00E+0	6.56E-2	0.00E+0	1.38E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-8.59E-3	2.89E+0
PENRT	MJ	7.87E+0	1.29E+0	3.00E-1	3.26E-1	5.09E-1	1.55E-2	1.09E-1	2.31E-2	1.56E-3	-1.60E-1	1.03E+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
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
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
FW	M3	4.57E-3	2.11E-4	3.28E-4	3.74E-5	2.79E-4	8.88E-6	1.25E-5	7.23E-6	1.57E-6	-1.48E-3	3.98E-3

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

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
HWD	Kg	3.76E-6	2.81E-6	2.28E-7	7.78E-7	4.18E-7	1.12E-8	2.61E-7	3.77E-8	2.20E-9	-2.10E-7	8.09E-6
NHWD	Kg	2.55E-2	6.15E-2	1.53E-3	1.95E-2	7.35E-3	4.27E-5	6.52E-3	3.02E-3	1.00E-2	-6.34E-4	1.34E-1
RWD	Kg	1.33E-5	7.90E-6	6.40E-7	2.02E-6	1.28E-6	2.99E-8	6.75E-7	9.71E-8	9.67E-9	-2.84E-7	2.56E-5

HWD=hazardous waste disposed | **NHWD**=non hazardous waste disposed | **RWD**=radioactive waste disposed

3 Results

ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	C2	C3	C4	D	Total
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
MFR	Kg	0.00E+0	0.00E+0	3.76E-3	0.00E+0	5.00E-2	0.00E+0	0.00E+0	9.90E-1	0.00E+0	0.00E+0	1.04E+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
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	5.48E-2	5.48E-2
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	3.47E-2	3.47E-2
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	2.01E-2	2.01E-2

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

3 Results

3.3 INFORMATION ON BIOGENIC CARBON CONTENT PER KILOGRAM

BIOGENIC CARBON CONTENT

The following Information describes the biogenic carbon content in (the main parts of) the product at the factory gate per kilogram:

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0	kg C
Biogenic carbon content in accompanying packaging	0.001996	kg C

UPTAKE OF BIOGENIC CARBON DIOXIDE

The following amount of uptake of carbon dioxide is account in module A1 by the main parts of the product. Related uptake and release of carbon dioxide in downstream processes are not taken into account in this number although they do appear in the presented results.

Uptake Biogenic Carbon dioxide	Amount	Unit
Packaging	0.007317	kg CO2 (biogenic)

3 Results

3.4 ENVIRONMENTAL COST INDICATOR NL PER KILOGRAM

Using the environmental cost indicator (ECI) method, which is presented in the NMD Determination Method (2020), the results are aggregated to the single-point score. The ECI is a relevant valuation method, especially in the Dutch construction sector. In the Netherlands, it is a prerequisite for public tenders. The aim of the indicator is to show the shadow price for environmental impacts of a product or project. The application of single-point scores is an additional assessment tool for eco-balance results. However, it must be pointed out that weightings are always based on a value maintenance and not on a scientific basis (EN 14040). The ECI results are shown in the following table.

Module EN15804	ECI NL	Share in total (%)
A1 Raw Materials Supply	€ 0.04	67,1 %
A2 Transport	€ 0.01	19,0 %
A3 Manufacturing	€ 0.00	2,9 %
A4 Transport from the gate to the site	€ 0.00	4,3 %
A5 Construction - Installation process	€ 0.00	6,2 %
B1 Use	€ 0.00	0,1 %
C2 Transport	€ 0.00	1,4 %
C3 Waste processing	€ 0.00	0,3 %
C4 Disposal	€ 0.00	0,0 %
D Benefits and loads beyond the product system boundary	€ 0.00	-1,5 %
ECI NL per functional unit	€ 0.06	

4 Contact information

Publisher

Operator

Owner of declaration

eurocol

eurocol

eurocol

Forbo Eurocol Nederland B.V.
Industrieweg 1-2
1520AC Wormerveer, NL

Forbo Eurocol Nederland B.V.
Industrieweg 1-2
1520AC Wormerveer, NL

Forbo Eurocol Nederland B.V.
Industrieweg 1-2
1520AC Wormerveer, NL

E-mail:
info.eurocol@forbo.com

Website:
<https://www.forbo.com/eurocol/nl-nl/>

E-mail:
info.eurocol@forbo.com

Website:
<https://www.forbo.com/eurocol/nl-nl/>

E-mail:
info.eurocol@forbo.com

Website:
<https://www.forbo.com/eurocol/nl-nl/>