

Result summary

924 Europlan Hybrid

Forbo Eurocol Nederland B.V.

Calculation number: EPD-NIBE-20201012-7759

Generation on: 13-04-2021

Issue date: 13-04-2021

Valid until: 13-04-2026

Status: verified

R<THiNK



1 924 Europlan Hybrid

1.1 COMPANY INFORMATION / DECLARATION OWNER

Manufacturer: Forbo Eurocol Nederland B.V.

Production Location: 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/>

1.2 EPD INFORMATION

Calculation number: EPD-NIBE-20210224-17688

Date of issue: 13-04-2021

End of validity: 13-04-2026

Version NIBE's EPD Application: v2.0

Version database: v3.03 (2021-03-26)

PCR: NMD Determination method Environmental performance Construction works v1.0
July 2020

1.3 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.

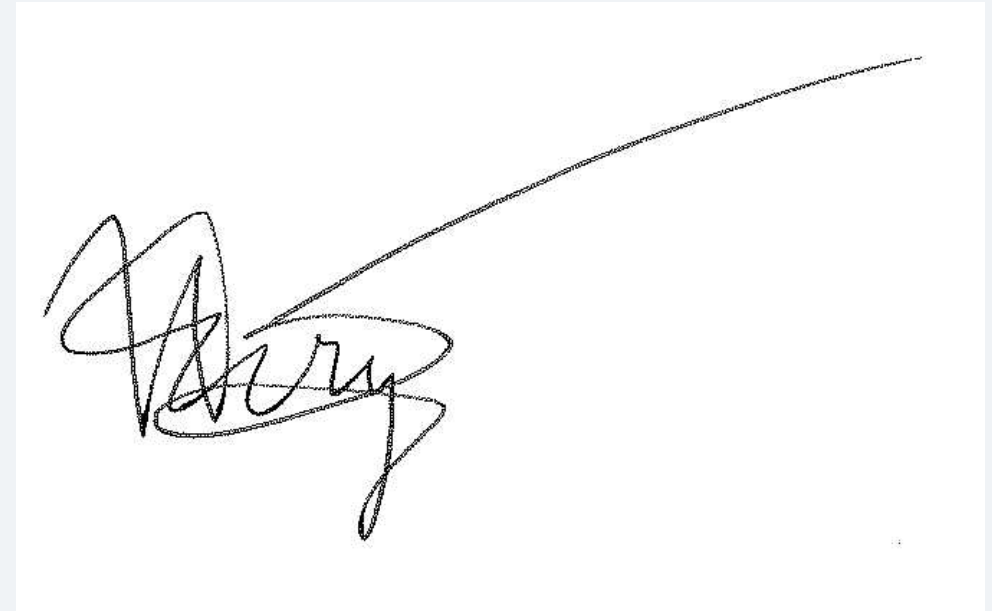
Internal External

Zoals bekend wilde ik 2 april het resultaat van de her-review van de 7 EPD's (nu met 'set 2') goedkeuren in de tool, met de kanttekening dat nu ecoinvent cementprofielen zijn gehanteerd in plaats van de 'categorie 3 cementprofielen' uit de processendatabase MMD.

Dat scheidt geen precedent.

Stichting NMD accepteert in dit soort gevallen (alleen set 1 beschikbaar van halffabricaten) namelijk dat alleen nog set 1 wordt aangeboden. Zie: <https://milieudatabase.nl/overgangsregeling-voor-het-aanleveren-van-nieuwe-milieu-impactcategorieen/>

Op 13-4-2021 is steekproefsgewijs gecheckt dat de waarden (milieuprofielen, MKI) van maart 2021 in het oude format identiek zijn aan die in het nieuwe format.



Third party verifier: Harry van Ewijk, SGS Search / Intron

1.4 DECLARED UNIT

Één kilogram 924 Europlan Hybrid egaliseermiddel

De productie (A1-A3) van één kilogram 924 Europlan Hybrid egaliseermiddel, inclusief verpakkingsmateriaal transport naar de bouwplaats (A4) en verwerking (A5). Tevens is de eindelevensduur (C2-D) beschouwd.

Fase B1-B3 zijn beschouwd maar niet van toepassing, derhalve zijn er 0 waarden weergegeven. Fase C1 is niet beschouwd in deze LCA.

1 924 Europlan Hybrid

1.5 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)

1 924 Europlan Hybrid

1.6 PRODUCT DESCRIPTION

De 924 Europlan Hybrid is een zelfuitvloeiend, spanningsvrij afbindend egalisatiemiddel voor zowel calciumsulfaat- als cementgebonden ondervloeren.

Producttypering:

Basis : Calciumsulfaat-Alpha-Halfhydraat in combinatie met speciale cementen

Kleur : Taupe

Consistentie : Poeder

Snel afbindend

Spanningsvrij

Zeer hoge druksterkte

Uitstekend vloeivermogen

Verpompbaar

Stofarm

Zeer emissiearm, Emission code EC 1 plus

Al na 6 uur verder af te werken

Chromaatvrij

Maximale laagdikte 10 mm

Eigenschappen:

Begaanbaarheid : 2-3 uur bij 18 - 20 °C

Brandbaarheid : Niet brandbaar

Buigsterkte : Volgens NEN-EN 13892-2:2002: na 28 dagen ≥ 10 N/mm²

Bureaurolstoelvastheid : Vanaf 2 mm laagdikte

Drukvastheid : Volgens NEN-EN 13892-2:2002: na 28 dagen ≥ 50 N/mm²

Verbruik : Ca. 1,6 kg/m² per mm laagdikte

EAN-code : 8 710345 924009

Zak à 23 kg

1.7 DESCRIPTION OF THE MANUFACTURING 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.

1 924 Europlan Hybrid

1.8 RESULTS

Environmental effects	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	2.96E-7	1.87E-7	1.73E-8	5.61E-8	1.25E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.62E-8	5.16E-11	5.65E-9	-4.56E-10	6.11E-7
ADPF	Kg Sb	1.23E-3	4.96E-4	1.35E-4	1.47E-4	4.47E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.53E-5	5.80E-7	7.33E-5	-8.57E-6	2.22E-3
GWP	Kg CO2 Equiv.	1.52E-1	6.63E-2	1.57E-2	1.97E-2	6.84E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.27E-2	8.08E-5	5.02E-3	-9.75E-4	2.77E-1
ODP	Kg CFC-11 Equiv.	1.12E-8	1.24E-8	9.36E-10	3.68E-9	6.99E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.38E-9	9.39E-12	1.81E-9	-1.34E-10	3.29E-8
POCP	Kg Ethene Equiv.	1.30E-4	3.96E-5	7.28E-6	1.17E-5	4.17E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.55E-6	4.63E-8	5.46E-6	-7.50E-7	2.05E-4
AP	Kg SO2 Equiv.	5.09E-4	2.97E-4	6.14E-5	8.53E-5	2.19E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.52E-5	4.03E-7	3.78E-5	-4.85E-6	1.06E-3
EP	Kg PO43- Equiv.	9.74E-5	5.86E-5	1.03E-5	1.72E-5	4.30E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.11E-5	9.10E-8	7.15E-6	-1.31E-6	2.05E-4
HTP	kg 1.4 DB	9.08E-2	2.72E-2	2.96E-3	8.08E-3	2.87E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.22E-3	1.85E-5	2.18E-3	-3.14E-4	1.39E-1
FAETP	kg 1.4 DB	4.68E-3	7.88E-4	3.68E-4	2.35E-4	1.32E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.52E-4	3.17E-7	5.28E-5	-5.74E-6	6.40E-3
MAETP	kg 1.4 DB	2.26E+0	2.81E+0	2.35E-1	8.36E-1	1.55E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.41E-1	1.17E-3	1.85E-1	-8.77E-3	7.02E+0
TETP	kg 1.4 DB	1.87E-3	9.38E-5	1.75E-4	2.78E-5	4.42E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.80E-5	2.34E-7	5.45E-6	-1.68E-6	2.24E-3
AP	mol H+ eqv.	3.66E-4	3.94E-4	7.84E-5	1.14E-4	2.28E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.34E-5	5.64E-7	4.96E-5	-7.40E-6	1.09E-3
GWP-total	kg CO2 eqv.	7.18E-2	6.69E-2	1.12E-2	1.99E-2	6.79E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.28E-2	8.25E-5	5.13E-3	-1.00E-3	1.94E-1
GWP-b	kg CO2 eqv.	-9.00E-4	1.99E-5	-4.53E-3	5.77E-6	1.57E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.73E-6	7.29E-7	8.75E-6	-1.14E-5	-3.84E-3
GWP-f	kg CO2 eqv.	7.27E-2	6.69E-2	1.57E-2	1.99E-2	5.22E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.28E-2	8.17E-5	5.12E-3	-9.91E-4	1.97E-1
GWP-luluc	kg CO2 eqv.	3.18E-5	2.00E-5	9.22E-5	5.91E-6	3.23E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.82E-6	1.94E-8	1.38E-6	-1.44E-6	1.57E-4
ETP-fw	CTUe	2.04E+0	7.43E-1	2.00E-1	2.21E-1	8.61E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.43E-1	8.18E-4	9.12E-2	-1.53E-1	3.37E+0

1 924 Europlan Hybrid

PM	disease incidence	3.16E-9	6.03E-9	5.58E-10	1.80E-9	2.86E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.16E-9	1.16E-11	9.30E-10	-1.05E-10	1.38E-8
EP-m	kg N eqv.	6.90E-5	1.36E-4	1.44E-5	3.98E-5	6.60E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.57E-5	2.04E-7	1.63E-5	-2.27E-6	3.06E-4
EP-fw	kg P eqv.	3.14E-6	1.01E-6	8.62E-7	2.98E-7	1.20E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.93E-7	3.42E-9	9.01E-8	-9.67E-9	5.70E-6
EP-T	mol N eqv.	8.60E-4	1.51E-3	1.85E-4	4.41E-4	7.42E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.85E-4	2.46E-6	1.80E-4	-3.47E-5	3.50E-3
HTP-c	CTUh	2.08E-11	2.81E-11	4.43E-12	8.38E-12	1.97E-12	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.42E-12	2.06E-14	2.00E-12	-5.32E-13	7.07E-11
HTP-nc	CTUh	7.21E-10	9.43E-10	1.35E-10	2.81E-10	5.35E-11	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.82E-10	5.53E-13	6.47E-11	-1.82E-11	2.36E-9
IR	kBq U235 eqv.	3.59E-3	4.41E-3	6.10E-4	1.31E-3	2.37E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.47E-4	3.89E-6	6.38E-4	-2.00E-5	1.16E-2
SQP	Pt	3.59E-1	8.57E-1	2.97E-1	2.57E-1	4.58E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.66E-1	2.16E-4	2.95E-1	-1.53E-1	2.12E+0
ODP	kg CFC 11 eqv.	9.50E-9	1.55E-8	9.54E-10	4.62E-9	7.73E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.99E-9	1.12E-11	2.28E-9	-1.48E-10	3.65E-8
POCP	kg NMVOC eqv.	3.84E-4	4.27E-4	4.15E-5	1.25E-4	2.36E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.10E-5	6.11E-7	5.25E-5	-6.83E-6	1.13E-3
ADP-f	MJ	2.09E+0	1.04E+0	2.72E-1	3.08E-1	8.33E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.99E-1	1.14E-3	1.54E-1	-1.65E-2	4.13E+0
ADP-mm	kg Sb-eqv.	2.35E-7	1.87E-7	1.65E-8	5.61E-8	1.13E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.62E-8	5.16E-11	5.65E-9	-4.56E-10	5.47E-7
WDP	m3 world eqv.	5.38E-2	7.37E-3	5.11E-3	2.19E-3	1.68E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.42E-3	8.31E-6	6.81E-3	-9.37E-5	7.83E-2

ADPE=Depletion of abiotic resources-elements | **ADPF**=Depletion of abiotic resources-fossil fuels | **GWP**=Global warming | **ODP**=Ozone layer depletion | **POCP**=Photochemical oxidants creation | **AP**=Acidification of soil and water | **EP**=Eutrophication | **HTP**=Human toxicity | **FAETP**=Ecotoxicity, fresh water | **MAETP**=Ecotoxicity, marine water (MAETP) | **TETP**=Ecotoxicity, terrestrial | **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) | **ETP-fw**=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **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) | **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)

1 924 Europlan Hybrid

Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	8.11E-2	1.10E-2	7.65E-2	3.22E-3	3.61E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.08E-3	6.51E-5	1.26E-3	-3.25E-2	1.46E-1
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	1.52E-1	1.10E-2	7.67E-2	3.22E-3	5.03E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.08E-3	6.51E-5	1.26E-3	-3.25E-2	2.19E-1
PENRE	MJ	2.16E+0	1.10E+0	1.80E-1	3.27E-1	8.52E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.11E-1	1.22E-3	1.64E-1	-1.81E-2	4.21E+0
PENRM	MJ	8.85E-2	0.00E+0	1.10E-1	0.00E+0	3.98E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-7.05E-4	2.02E-1
PENRT	MJ	2.74E+0	1.10E+0	2.92E-1	3.27E-1	9.90E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.11E-1	1.22E-3	1.64E-1	-1.81E-2	4.92E+0
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	1.62E-3	1.96E-4	2.06E-4	5.81E-5	4.82E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.76E-5	5.34E-7	1.61E-4	-2.03E-6	2.33E-3
HWD	Kg	4.80E-6	6.58E-7	3.55E-7	1.96E-7	1.28E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.26E-7	1.86E-9	1.03E-7	-7.95E-8	6.29E-6
NHWD	Kg	7.85E-3	6.25E-2	2.61E-3	1.87E-2	2.13E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.21E-2	1.52E-4	9.50E-1	-3.61E-5	1.07E+0
RWD	Kg	6.73E-6	6.97E-6	6.31E-7	2.07E-6	3.86E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.34E-6	5.48E-9	1.02E-6	-2.53E-8	1.91E-5
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	8.50E-5	0.00E+0	1.03E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.00E-2	0.00E+0	0.00E+0	5.11E-2
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	2.34E-2	2.34E-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	0.00E+0	0.00E+0	0.00E+0	1.48E-2	1.48E-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	0.00E+0	0.00E+0	0.00E+0	8.58E-3	8.58E-3
SP	s€	s€ 0,02	s€ 0,01	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,03

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

1 924 Europlan Hybrid

1.9 ADDITIONAL INFORMATION

Allocation

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