

Result summary

350 LiquidDesign

Forbo Eurocol Nederland B.V.

Calculation number: EPD-NIBE-20220504-27058

Generation on: 27-10-2022

Issue date: 27-10-2022

Valid until: 27-10-2027

Status: verified



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1.1 COMPANY INFORMATION / DECLARATION OWNER

Manufacturer: Forbo Eurocol Nederland B.V.

Production Location: Eurocol Nederland B.V

Address: Industrieweg 1, 1521NA Wormerveer

E-mail: info.eurocol@forbo.com

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

1.2 EPD INFORMATION

Calculation number: EPD-NIBE-20220504-27058

Date of issue: 27-10-2022

End of validity: 27-10-2027

Version NIBE's EPD Application: v2.0

Version database: v3.11 (2022-07-18)

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

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

This LCA, "LCA 350 LiquidDesign" was reviewed by SGS Search on November the 27th 2022, according to the NMD Bepalingsmethode version 1.0.

Concluded is that the methodology, data inventory and report comply with the requirements of the NMD Bepalingsmethode version 1.0 (including amendments) as well as the unlaying standards: ISO 14040, ISO 14044 and EN 15804.



Third party verifier: Martijn van Hovell, SGS Search / Intron

1.4 DECLARED UNIT

Eén kilogram 350 LiquidDesign

De productie (A1-A3) van één kilogram 350 LiquidDesign, inclusief verpakkingsmateriaal transport naar de bouwplaats (A4) en verwerking (A5). Tevens is de eindelevensduur (C1-D) beschouwd. Fase B1-B3 zijn beschouwd maar niet van toepassing, derhalve zijn er 0 waarden weergegeven.

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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)

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1.6 PRODUCT DESCRIPTION

De 350 LiquidDesign is een veerkrachtige vloevloer met een natuurlijke en esthetische uitstraling.

Eigenschappen:

Consistentie: Dik, vloeibaar.

Soortelijk gewicht: 1,36 kg/l (A+B).

Verbruik: 2,7 kg/m².

Pot-life: Circa 30 minuten (afhankelijk van klimatologische omstandigheden).

Begaanbaarheid: Na 12 uur.

Droogtijd: Na minimaal 12 uur af te lakken en het geheel is na 8 dagen volledig uitgehard.

Laagdikte: Circa 2 mm.

Rest indruk: Circa 0,02 mm.

Warmte isolatie: 0,043 m² x K/W.

Hardheid: Circa 40 Shore D.

Kleurechtheid: 8 blauwe wolschaal.

Slipweerstand: DS: ≥ 0,45.

Brandklasse: Cfl-S1.

Persoonsoplading: < 0,5 kV.

Rolstoelbestendig: Geschikt voor gebruik van bureaurolstoelen.

Gebruiksklasse: Zeer zwaar commercieel gebruik.

Opslagwijze: Koel en vorstvrij opslaan (tussen 10^o - 30 °C beslist niet in direct zonlicht).

Houdbaarheid: 9 maanden, in onaangebroken verpakking.

Vorstgevoelig: Ja.

Verpakking: Component A + B 17 kg set.

Component A: Emmer à 12,5 kg.

Component B: Jerrycan à 4,5 kg.

1.7 DESCRIPTION OF THE MANUFACTURING PROCESS

Alle grondstoffen worden via pompen in een ketel gedoseerd en gemengd, waarna het in emmers wordt afgevuld.

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1.8 RESULTS

Environmental effects	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	6.49E-5	1.85E-6	2.76E-6	5.52E-7	3.77E-6	0.00E+0	0.00E+0	0.00E+0	1.31E-7	3.42E-7	0.00E+0	1.13E-7	-7.23E-8	7.43E-5
ADPF	Kg Sb	2.29E-2	5.46E-4	4.42E-3	1.59E-4	1.49E-3	0.00E+0	0.00E+0	0.00E+0	2.41E-4	9.84E-5	0.00E+0	1.20E-4	-9.26E-4	2.90E-2
GWP	Kg CO2 Equiv.	4.18E+0	7.48E-2	3.89E-1	2.16E-2	4.22E-1	0.00E+0	0.00E+0	0.00E+0	3.21E-2	1.34E-2	0.00E+0	1.02E-1	-9.65E-2	5.14E+0
ODP	Kg CFC-11 Equiv.	4.66E-7	1.32E-8	2.78E-8	3.83E-9	3.14E-8	0.00E+0	0.00E+0	0.00E+0	1.58E-9	2.37E-9	0.00E+0	2.62E-9	-1.07E-8	5.38E-7
POCP	Kg Ethene Equiv.	2.79E-3	4.75E-5	1.94E-4	1.30E-5	1.61E-4	0.00E+0	0.00E+0	0.00E+0	4.78E-6	8.08E-6	0.00E+0	2.47E-5	-1.78E-5	3.23E-3
AP	Kg SO2 Equiv.	1.53E-2	3.98E-4	1.02E-3	9.50E-5	9.13E-4	0.00E+0	0.00E+0	0.00E+0	6.01E-5	5.88E-5	0.00E+0	6.85E-5	-7.48E-5	1.78E-2
EP	Kg PO43- Equiv.	2.84E-2	7.10E-5	3.15E-4	1.87E-5	1.45E-3	0.00E+0	0.00E+0	0.00E+0	1.24E-5	1.16E-5	0.00E+0	1.63E-5	-1.00E-5	3.03E-2
HTP	kg 1.4 DB	2.34E+0	3.20E-2	6.91E-2	9.09E-3	1.36E-1	0.00E+0	0.00E+0	0.00E+0	3.61E-3	5.63E-3	0.00E+0	5.97E-3	-5.55E-3	2.59E+0
FAETP	kg 1.4 DB	3.43E-1	9.10E-4	3.79E-3	2.65E-4	1.83E-2	0.00E+0	0.00E+0	0.00E+0	9.95E-5	1.65E-4	0.00E+0	2.34E-3	-6.33E-5	3.69E-1
MAETP	kg 1.4 DB	8.96E+1	3.31E+0	4.93E+0	9.55E-1	7.20E+0	0.00E+0	0.00E+0	0.00E+0	4.20E-1	5.92E-1	0.00E+0	3.20E+0	-2.64E-1	1.10E+2
TETP	kg 1.4 DB	1.32E-1	1.12E-4	1.54E-3	3.21E-5	6.72E-3	0.00E+0	0.00E+0	0.00E+0	1.63E-4	1.99E-5	0.00E+0	2.11E-5	-1.81E-5	1.41E-1
AP	mol H+ eqv.	1.90E-2	5.23E-4	1.23E-3	1.26E-4	1.14E-3	0.00E+0	0.00E+0	0.00E+0	7.59E-5	7.83E-5	0.00E+0	9.03E-5	-9.48E-5	2.22E-2
GWP-total	kg CO2 eqv.	5.22E+0	7.55E-2	4.03E-1	2.18E-2	4.76E-1	0.00E+0	0.00E+0	0.00E+0	3.28E-2	1.35E-2	0.00E+0	1.19E-1	-9.79E-2	6.27E+0
GWP-b	kg CO2 eqv.	1.01E+0	3.24E-5	4.83E-3	1.01E-5	5.06E-2	0.00E+0	0.00E+0	0.00E+0	3.56E-4	6.23E-6	0.00E+0	8.69E-5	-5.20E-5	1.06E+0
GWP-f	kg CO2 eqv.	2.82E+0	7.54E-2	3.88E-1	2.18E-2	3.54E-1	0.00E+0	0.00E+0	0.00E+0	3.25E-2	1.35E-2	0.00E+0	1.19E-1	-9.78E-2	3.72E+0
GWP-luluc	kg CO2 eqv.	1.40E+0	2.87E-5	1.03E-2	7.98E-6	7.07E-2	0.00E+0	0.00E+0	0.00E+0	9.59E-6	4.95E-6	0.00E+0	4.83E-6	-4.26E-6	1.48E+0
ETP-fw	CTUe	2.60E+2	9.98E-1	4.42E+0	2.93E-1	1.56E+1	0.00E+0	0.00E+0	0.00E+0	4.33E-1	1.82E-1	0.00E+0	2.06E-1	-1.19E-1	2.82E+2

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PM	disease incidence	1.70E-7	6.60E-9	8.01E-9	1.96E-9	1.02E-8	0.00E+0	0.00E+0	0.00E+0	2.49E-10	1.21E-9	0.00E+0	1.73E-9	-3.73E-10	1.99E-7
EP-m	kg N eqv.	7.45E-3	1.73E-4	2.41E-4	4.45E-5	4.22E-4	0.00E+0	0.00E+0	0.00E+0	1.63E-5	2.76E-5	0.00E+0	3.05E-5	-2.60E-5	8.38E-3
EP-fw	kg P eqv.	6.25E-3	7.42E-7	5.64E-5	2.20E-7	3.16E-4	0.00E+0	0.00E+0	0.00E+0	1.85E-6	1.36E-7	0.00E+0	1.83E-7	-1.90E-7	6.63E-3
EP-T	mol N eqv.	3.91E-2	1.91E-3	2.45E-3	4.91E-4	2.49E-3	0.00E+0	0.00E+0	0.00E+0	2.00E-4	3.04E-4	0.00E+0	3.36E-4	-2.86E-4	4.70E-2
HTP-c	CTUh	9.48E-9	3.33E-11	1.70E-10	9.50E-12	5.20E-10	0.00E+0	0.00E+0	0.00E+0	7.43E-12	5.89E-12	0.00E+0	1.31E-11	-7.23E-12	1.02E-8
HTP-nc	CTUh	3.26E-7	1.08E-9	4.52E-9	3.20E-10	1.74E-8	0.00E+0	0.00E+0	0.00E+0	2.42E-10	1.99E-10	0.00E+0	1.76E-10	-1.15E-10	3.50E-7
IR	kBq U235 eqv.	1.18E-1	4.74E-3	1.55E-2	1.38E-3	7.68E-3	0.00E+0	0.00E+0	0.00E+0	8.81E-4	8.53E-4	0.00E+0	9.81E-4	-6.23E-4	1.49E-1
SQP	Pt	9.07E+1	9.51E-1	1.78E+0	2.85E-1	4.78E+0	0.00E+0	0.00E+0	0.00E+0	8.76E-2	1.77E-1	0.00E+0	5.93E-1	-2.84E-2	9.93E+1
ODP	kg CFC 11 eqv.	4.70E-7	1.66E-8	2.81E-8	4.81E-9	3.19E-8	0.00E+0	0.00E+0	0.00E+0	1.57E-9	2.98E-9	0.00E+0	3.27E-9	-1.22E-8	5.47E-7
POCP	kg NMVOC eqv.	1.19E-2	5.38E-4	8.97E-4	1.40E-4	7.55E-4	0.00E+0	0.00E+0	0.00E+0	4.94E-5	8.68E-5	0.00E+0	1.22E-4	-1.00E-4	1.44E-2
ADP-f	MJ	4.59E+1	1.13E+0	9.17E+0	3.28E-1	2.99E+0	0.00E+0	0.00E+0	0.00E+0	4.26E-1	2.04E-1	0.00E+0	2.49E-1	-1.73E+0	5.86E+1
ADP-mm	kg Sb-eqv.	6.45E-5	1.85E-6	2.75E-6	5.52E-7	3.75E-6	0.00E+0	0.00E+0	0.00E+0	1.31E-7	3.42E-7	0.00E+0	1.13E-7	-7.23E-8	7.39E-5
WDP	m3 world eqv.	3.75E+0	3.96E-3	1.70E-1	1.18E-3	2.06E-1	0.00E+0	0.00E+0	0.00E+0	3.27E-3	7.28E-4	0.00E+0	1.07E-2	-1.10E-2	4.14E+0

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)

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Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	1.79E+1	1.39E-2	5.44E-1	4.11E-3	9.66E-1	0.00E+0	0.00E+0	0.00E+0	4.59E-2	2.55E-3	0.00E+0	8.17E-1	-6.45E-3	2.03E+1
PERM	MJ	1.02E-1	0.00E+0	7.35E-4	0.00E+0	5.14E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.08E-1
PERT	MJ	1.80E+1	1.39E-2	5.45E-1	4.11E-3	9.43E-1	0.00E+0	0.00E+0	0.00E+0	4.59E-2	2.55E-3	0.00E+0	4.32E-3	-6.45E-3	1.96E+1
PENRE	MJ	5.11E+1	1.20E+0	7.38E+0	3.49E-1	3.39E+0	0.00E+0	0.00E+0	0.00E+0	4.56E-1	2.16E-1	0.00E+0	6.99E+0	-1.80E+0	6.93E+1
PENRM	MJ	3.13E-2	0.00E+0	2.48E+0	0.00E+0	1.26E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-1.13E-1	2.53E+0
PENRT	MJ	5.11E+1	1.20E+0	9.87E+0	3.49E-1	3.31E+0	0.00E+0	0.00E+0	0.00E+0	4.56E-1	2.16E-1	0.00E+0	2.65E-1	-1.92E+0	6.48E+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	9.62E-2	1.35E-4	4.10E-3	4.00E-5	5.31E-3	0.00E+0	0.00E+0	0.00E+0	2.61E-4	2.48E-5	0.00E+0	2.61E-4	-1.54E-4	1.06E-1
HWD	Kg	9.02E-4	2.80E-6	1.27E-5	8.32E-7	4.62E-5	0.00E+0	0.00E+0	0.00E+0	3.28E-7	5.16E-7	0.00E+0	3.82E-7	-1.98E-6	9.64E-4
NHWD	Kg	4.50E-1	6.92E-2	1.91E-2	2.08E-2	9.05E-2	0.00E+0	0.00E+0	0.00E+0	1.26E-3	1.29E-2	0.00E+0	1.00E+0	-7.90E-4	1.67E+0
RWD	Kg	1.16E-4	7.44E-6	1.44E-5	2.16E-6	7.68E-6	0.00E+0	0.00E+0	0.00E+0	8.81E-7	1.34E-6	0.00E+0	1.49E-6	-8.51E-7	1.50E-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	3.98E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.98E-3
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	4.71E-4	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	1.09E+0	1.09E+0
EET	MJ	0.00E+0	0.00E+0	2.98E-4	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	6.87E-1	6.88E-1
EEE	MJ	0.00E+0	0.00E+0	1.73E-4	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	3.99E-1	3.99E-1
ECI NL	€	0,77	0,01	0,03	0,00	0,05	0,00	0,00	0,00	0,00	0,00	0,00	0,01	-0,01	0,88

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

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1.9 ADDITIONAL INFORMATION

Allocation

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