Result summary

706 Speciaalvoeg WD

Forbo Eurocol Nederland B.V.

Calculation number:	ReTHiNK-136372
Generation on:	08-04-2026
Issue date:	08-04-2026
Valid until:	08-04-2031
Status:	verified

R<THiNK

1 General information

1.1 PRODUCT

706 Speciaalvoeg WD

1.2 VALIDITY

Issue date: 08-04-2026
Valid until: 08-04-2031

1.3 OWNER OF THE DECLARATION

Declaration owner: 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+A2:2019 serves as the core PCR.

☐ Internal ☒ External

Martijn van Hovell, SGS Search / Intron

1.5 PRODUCT CATEGORY RULES

NMD Environmental Performance Assessment Method for Construction Works v1.2

January 2025 + Amendment 6

1.6 FUNCTIONAL UNIT

1 m² 706 Speciaalvoeg WD

De productie (A1-A3) van 1 m² 706 Speciaalvoeg WD, inclusief verpakkingsmateriaal transport naar de bouwplaats (A4) en verwerking (A5). Tevens is de eindelevensduur (C2-D) beschouwd. Fase B2-B7 en C1 zijn beschouwd maar niet van toepassing, derhalve zijn er 0 waarden weergegeven.
Dit rapport is van toepassing op de volgende kleuren: Wit, Jasmin, Beige, Zilvergrijs, Manhatten-grijs.

Reference unit: square meter (m2)

1.7 CONVERSION FACTORS

Description	Value	Unit
Reference unit	1	m2
Weight per reference unit	2.500	kg
Conversion factor to 1 kg	0.400000	m2

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to grave EPD. 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	X	X	X	X	X	X	X	X	X	X	X

The modules of the EN 15804 contain the following:

1 General information

Module A1 = Raw material supply	Module B5 = Refurbishment
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+A2:2019. 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 EPD program operators may differ. Comparability needs to be evaluated. For further guidance, see EN 15804+A2:2019 and ISO 14025.

2 Product

2.1 PRODUCT DESCRIPTION

706 Speciaalvoeg WD is een universeel, snelafbindend, flexibel en waterdicht voegmateriaal voor keramische tegels.

Classificatie: Voldoet aan CG2W Ar conform NEN EN 13888. Verbeterde cementgebonden voegmateriaal met een verlaagde waterabsorptie en een verhoogde slijtweerstand. Emicode EC 1 plus getest conform EN 13999-2/4. Geschikt voor BREEAM.

Verbruik: 600-2.500 g/m². De tegelafmeting, voegbreedte en -diepte zijn bepalend voor het verbruik van het voegcement.

Verpakking: Zak à 23 kg. **EAN-code:** 8 710345 706025

2.2 APPLICATION (INTENDED USE OF THE PRODUCT)

Universeel, snel afbindend, flexibel en waterdicht voegmateriaal voor het afvoegen van keramische wand- en vloertegels, natuursteen en glasmozaïek, tot een maximale voegbreedte van 2 tot 10 mm, op vrijwel alle gedegen opgebouwde constructies zoals cement- en gipsachtige ondergronden, plaatmaterialen, vloer- en wandverwarming e.d. Niet geschikt als zuur- en hittebestendig voegmateriaal.

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

- Voor een zo goed mogelijk eindresultaat dienen de voegen vrij te zijn van lijm- en/of specieresten en dient op het moment van voegen de ondergrond en de lijm of zetspecie voldoende droog te zijn.
- Op poreuze- of matte tegels en platen kunnen resten van het voegproduct vasthechten. Op deze tegels zijn derhalve proefvoegen noodzakelijk.
- Gelijmde tegels kunnen na afbinding van de lijm (24-48 uur) worden gevoegd. Voor wandtegels gezet in de specie minimaal 4 dagen wachttijd aanhouden. Vloertegels welke in de specie zijn geklopt kunnen eventueel direct worden ingevoegd. Indien volgens deze voorschriften wordt gehandeld, kan de uitharding van het voegmateriaal gelijkmatig plaatsvinden.
- Voor een optimale kwaliteit van de voeg is de water/poeder verhouding erg belangrijk. Voeg 23 kg 706 Speciaalvoeg WD toe aan ca. 4,5 liter koel en schoon leidingwater en meng de mortel in ca. 1 minuut mechanisch, met het Forbo Eurocol 855 Mengijzer (ca. 600 tpm), tot een klontvrij homogeen geheel. De mortel enige minuten laten staan en vóór verwerking nogmaals mengen. Dit zorgt voor een optimale verwerking en verlenging van de potlife.
- Vervolgens met een geschikte voegspaan de voegmortel binnen 60 minuten vol en zat in de voegen aanbrengen. Overtollig voegmateriaal direct van het tegelwerk verwijderen. Beslist geen extra water meer aan de reeds afbindende mortel toevoegen. Nogmaals mengen zonder toevoeging van water is wel toegestaan.
- Na het invoegen enige tijd wachten zodat de voeg enigszins dof kan aantrekken. Afhankelijk van de omstandigheden (temperatuur, relatieve luchtvochtigheid, type tegel en ondergrond) zal dit na 15 tot 45 minuten plaatsvinden. De voeg dient goed aangetrokken te zijn, anders zal de voeg worden uitgehold. (Tip: indien na aantippen met de vingertop geen materiaal op de vingertop achterblijft is de voeg gereed voor afsponzen).
- Het gehele tegelwerk met een licht vochtige handspons of sponsblad met een draaiende beweging bevochtigen en ca. 1 minuut laten rusten. Hierdoor zal de achtergebleven cementwaas enigszins losweken waardoor het tegelwerk makkelijker is af te sponzen. Bij het gebruik van een sponsbak i.c.m. sponsblad deze grondig droogrollen.
- Vervolgens de voegen evenwijdig aan de voegrichting strak afwerken. Zorg hierbij dat alle voegen worden geraakt. Hierna het tegelwerk met een schone, lichtvochtige spons diagonaal reinigen.
- Na droging met een schone, droge doek de eventueel nog aanwezige cementsluier verwijderen. Om een optimale sterkte te bereiken dient bij een te snelle droging van de voegspecie (door warmte, tocht, hoge absorptie e.d.) de voeg binnen 24 uur een of meerdere malen te worden nabevochtigd.
- 24 uur na het voegen is het tegelwerk belastbaar. Tegelvloeren met een starre ondergrond en gevoegd met 706 Speciaalvoeg WD grijs of antraciet zijn na 4 uur begaanbaar.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER

CORE ENVIRONMENTAL IMPACT INDICATORS EN 15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
GWP-total	kg CO_2 eq.	1.16E+0	2.17E-1	2.36E-2	1.40E+0	5.10E-2	2.57E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.88E-2	3.69E-3	1.52E-4	-1.94E-2	1.71E+0
GWP-f	kg CO_2 eq.	1.17E+0	2.17E-1	4.36E-2	1.43E+0	5.09E-2	2.38E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.87E-2	3.68E-3	1.52E-4	-1.94E-2	1.72E+0
GWP-b	kg CO_2 eq.	-8.79E-3	8.76E-5	-2.02E-2	-2.89E-2	2.05E-5	1.93E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.10E-6	3.35E-6	6.64E-8	-2.82E-5	-9.57E-3
GWP-luluc	kg CO_2 eq.	5.14E-4	7.96E-5	2.50E-4	8.43E-4	1.87E-5	1.42E-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	6.68E-5	8.30E-7	9.17E-8	-2.25E-5	1.05E-3
ODP	kg CFC 11 eq.	4.78E-8	4.80E-8	1.75E-9	9.75E-8	1.12E-8	1.67E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.33E-10	8.28E-11	4.40E-12	-5.20E-10	1.25E-7
AP	mol H+ eq.	1.23E-2	1.26E-3	2.41E-4	1.38E-2	2.95E-4	2.15E-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	8.97E-5	2.32E-5	1.14E-6	-9.96E-5	1.63E-2
EP-fw	kg P eq.	2.96E-5	2.19E-6	4.14E-6	3.59E-5	5.14E-7	5.64E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.86E-7	7.28E-8	1.48E-9	-5.34E-7	4.18E-5
EP-m	kg N eq.	1.19E-3	4.44E-4	5.70E-5	1.70E-3	1.04E-4	2.81E-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	3.41E-5	9.84E-6	4.37E-7	-3.01E-5	2.10E-3
EP-T	mol N eq.	1.47E-2	4.90E-3	5.87E-4	2.01E-2	1.15E-3	3.31E-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	3.64E-4	1.08E-4	4.71E-6	-3.60E-4	2.47E-2
POCP	kg NMVOC eq.	4.21E-3	1.40E-3	1.69E-4	5.78E-3	3.28E-4	9.55E-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	1.24E-4	3.20E-5	1.64E-6	-1.07E-4	7.11E-3
		6.63E-6	5.51E-6	3.13E-7	1.25E-5	1.29E-6	2.10E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.87E-8	1.49E-8	2.11E-10	-6.32E-8	1.59E-5

GWP-total=Global Warming Potential total (GWP-total) | **GWP-f**=Global Warming Potential fossil fuels (GWP-fossil) | **GWP-b**=Global Warming Potential biogenic (GWP-biogenic) | **GWP-luluc**=Global Warming Potential land use and land use change (GWP-luluc) | **ODP**=Depletion potential of the stratosperic ozon layer (ODP) | **AP**=Acidification potential, Accumulated Exceedance (AP) | **EP-fw**=Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater) | **EP-m**=Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine) | **EP-T**=Eutrophication potential, Accumulated Exceedance (EP-terrestrial) | **POCP**=Formation potential of tropospheric ozone (POCP) | **ADP-mm**=Abiotic depletion potential for non fossil resources (ADP mm) | **ADP-f**=Abiotic depletion for fossil resources potential (ADP fossil) | **WDP**=Water (user) deprication potential, deprivation-weighted water consumption (WDP)

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
ADP-mm	kg Sb-eq.																			
ADP-f	MJ	1.17E+1	3.28E+0	7.40E-1	1.57E+1	7.68E-1	2.57E+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	2.68E-1	5.03E-2	3.79E-3	-2.66E-1	1.91E+1
WDP	m3 world eq.	7.82E-1	1.17E-2	2.73E-2	8.21E-1	2.75E-3	1.25E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.47E-3	2.76E-4	1.67E-4	-1.72E-1	7.78E-1

GWP-total=Global Warming Potential total (GWP-total) | **GWP-f**=Global Warming Potential fossil fuels (GWP-fossil) | **GWP-b**=Global Warming Potential biogenic (GWP-biogenic) | **GWP-luluc**=Global Warming Potential land use and land use change (GWP-luluc) | **ODP**=Depletion potential of the stratosperic ozon layer (ODP) | **AP**=Acidification potential, Accumulated Exceedance (AP) | **EP-fw**=Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater) | **EP-m**=Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine) | **EP-T**=Eutrophication potential, Accumulated Exceedance (EP-terrestrial) | **POCP**=Formation potential of tropospheric ozone (POCP) | **ADP-mm**=Abiotic depletion potential for non fossil resources (ADP mm) | **ADP-f**=Abiotic depletion for fossil resources potential (ADP fossil) | **WDP**=Water (user) deprication potential, deprivation-weighted water consumption (WDP)

ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN 15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
PM	disease incidence	5.82E-8	1.96E-8	2.24E-9	8.00E-8	4.58E-9	1.32E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.85E-9	5.63E-10	2.50E-11	-1.74E-9	9.85E-8
IR	kBq U235 eq.	2.45E-2	1.37E-2	1.62E-3	3.98E-2	3.22E-3	6.60E-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	1.05E-4	5.75E-5	1.00E-6	-3.55E-4	4.95E-2
ETP-fw	CTUe	1.17E+1	2.92E+0	2.97E-1	1.49E+1	6.85E-1	2.50E+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	1.98E-1	1.69E-2	1.78E-3	-6.41E-2	1.82E+1
HTP-c	CTUh	2.40E-9	9.48E-11	3.71E-11	2.53E-9	2.22E-11	3.90E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.93E-12	1.17E-12	6.47E-14	-1.15E-11	2.94E-9
HTP-nc	CTUh	1.50E-8	3.20E-9	5.43E-10	1.88E-8	7.49E-10	3.02E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.16E-10	2.35E-11	8.09E-13	-1.60E-10	2.26E-8
SQP	Pt	5.60E+0	2.84E+0	8.93E-1	9.33E+0	6.66E-1	1.55E+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	2.12E-1	6.77E-3	7.52E-3	-9.98E-1	1.08E+1

PM=Potential incidence of disease due to PM emissions (PM) | **IR**=Potential Human exposure efficiency relative to U235 (IRP) | **ETP-fw**=Potential Comparative Toxic Unit for ecosystems (ETP-fw) | **HTP-c**=Potential Comparative Toxic Unit for humans (HTP-c) | **HTP-nc**=Potential Comparative Toxic Unit for humans (HTP-nc) | **SQP**=Potential soil quality index (SQP)

3 Results

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	Acidification 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
	Potential Human exposure efficiency relative to U235 (IRP)	1
ILCD type / level 3	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
	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

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
ADPE	kg Sb eq.	6.64E-6	5.51E-6	3.23E-7	1.25E-5	1.29E-6	2.10E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.88E-8	1.49E-8	2.11E-10	-6.33E-8	1.59E-5
GWP		1.16E+0	2.16E-1	4.38E-2	1.42E+0	5.05E-2	2.37E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.87E-2	3.67E-3	1.51E-4	-1.93E-2	1.71E+0

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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
	kg CO_2 eq.																			
ODP	kg CFC 11 eq.	4.48E-8	3.82E-8	1.48E-9	8.46E-8	8.96E-9	1.44E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.76E-10	6.77E-11	3.55E-12	-4.49E-10	1.08E-7
POCP	kg ethene eq.	5.93E-4	1.30E-4	1.57E-5	7.39E-4	3.05E-5	1.17E-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	3.14E-6	5.38E-7	4.72E-8	-5.37E-6	8.85E-4
AP	kg SO_2 eq.	1.05E-2	9.48E-4	1.91E-4	1.17E-2	2.22E-4	1.81E-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	6.68E-5	1.67E-5	8.50E-7	-7.46E-5	1.37E-2
EP	Kg PO43- eq.	6.24E-4	1.86E-4	4.19E-5	8.52E-4	4.36E-5	1.39E-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	1.26E-5	3.63E-6	1.58E-7	-1.36E-5	1.04E-3

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

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
ADPF	kg Sb eq.	5.95E-3	1.58E-3	3.60E-4	7.89E-3	3.71E-4	1.29E-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	1.31E-4	2.49E-5	1.82E-6	-1.41E-4	9.57E-3
HTP	kg 1,4 DB eq.	3.57E-1	9.07E-2	1.46E-2	4.62E-1	2.13E-2	7.59E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.64E-3	8.03E-4	3.29E-5	-4.40E-3	5.63E-1
FAETP	kg 1,4 DB eq.	9.17E-2	2.65E-3	2.57E-3	9.69E-2	6.21E-4	1.48E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.08E-4	3.09E-5	2.80E-6	-1.45E-4	1.13E-1
MAETP	kg 1,4 DB eq.	9.55E+1	9.53E+0	1.70E+0	1.07E+2	2.23E+0	1.69E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.49E+0	1.42E-1	1.45E-2	-6.09E-1	1.27E+2

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity. fresh water | **MAETP**=Ecotoxicity. marine water | **TETP**=Ecotoxicity. terrestric

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
TETP	kg 1,4 DB eq.	5.16E-3	3.21E-4	6.09E-4	6.09E-3	7.52E-5	9.60E-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	7.00E-5	8.82E-6	5.03E-7	-7.95E-5	7.13E-3

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity. fresh water | **MAETP**=Ecotoxicity. marine water | **TETP**=Ecotoxicity. terrestric

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

PARAMETERS DESCRIBING RESOURCE USE

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
PERE	MJ	8.95E-1	4.10E-2	8.77E-3	9.45E-1	9.62E-3	1.51E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.79E-3	4.21E-3	3.21E-5	-1.65E-1	9.49E-1
PERM	MJ	8.75E-2	0.00E+0	1.92E-1	2.80E-1	0.00E+0	4.20E-2	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	3.22E-1
PERT	MJ	9.82E-1	4.10E-2	2.01E-1	1.22E+0	9.62E-3	1.93E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.79E-3	4.21E-3	3.21E-5	-1.65E-1	1.27E+0
PENRE	MJ	1.04E+1	3.48E+0	5.79E-1	1.45E+1	8.16E-1	2.40E+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	2.69E-1	5.03E-2	3.79E-3	-2.60E-1	1.78E+1
PENRM	MJ	1.54E+0	0.00E+0	1.66E-1	1.71E+0	0.00E+0	2.56E-1	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	-5.89E-3	1.96E+0
PENRT	MJ	1.20E+1	3.48E+0	7.45E-1	1.62E+1	8.16E-1	2.65E+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	2.69E-1	5.03E-2	3.79E-3	-2.66E-1	1.97E+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	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	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	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	m^3	1.97E-2	3.99E-4	7.48E-4	2.09E-2	9.36E-5	3.19E-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	6.49E-5	1.39E-5	4.02E-6	-4.02E-3	2.02E-2

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 | **SM**=Use of secondary material | **RSF**=Use of renewable secondary fuels | **NRSF**=Use of non-renewable secondary fuels | **FW**=Net use of fresh water

3 Results

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	Total
HWD	Kg	2.10E-5	8.31E-6	1.52E-6	3.08E-5	1.95E-6	5.40E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.71E-6	2.60E-7	2.01E-8	-1.11E-6	3.90E-5
NHWD	Kg	3.57E-1	2.08E-1	2.47E-2	5.90E-1	4.87E-2	1.13E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.77E-2	7.55E-3	2.50E-2	-2.05E-3	8.00E-1
RWD	Kg	2.18E-5	2.15E-5	1.47E-6	4.48E-5	5.04E-6	7.59E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.14E-8	4.85E-8	5.59E-10	-2.29E-7	5.73E-5

HWD=Hazardous waste disposed | **NHWD**=Non-hazardous waste disposed | **RWD**=Radioactive waste disposed

ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	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	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	0.00E+0	3.81E-1	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	2.48E+0	0.00E+0	0.00E+0	2.86E+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	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	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.11E-1	1.11E-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	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.00E-2	7.00E-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	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.06E-2	4.06E-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 SQUARE METER

BIOGENIC CARBON CONTENT

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

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0.0031	kg C
Biogenic carbon content in accompanying packaging	0.005587	kg C

UPTAKE OF BIOGENIC CARBON DIOXIDE

The following amount of carbon dioxide uptake is taken into account. 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. One kilogram of biogenic Carbon content is equivalent to 44/12 kg of biogenic carbon dioxide uptake.

Uptake Biogenic Carbon dioxide	Amount	Unit
product	0.01137	kg CO2 (biogenic)
Packaging	0.02049	kg CO2 (biogenic)

3 Results

3.4 ENVIRONMENTAL COST INDICATOR NL PER SQUARE METER

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 2010	Share in total (%)
A1 Raw Materials Supply	€ 0.15	69,4 %
A2 Transport	€ 0.03	11,8 %
A3 Manufacturing	€ 0.01	2,3 %
A4 Transport from the gate to the site	€ 0.01	2,8 %
A5 Construction - Installation process	€ 0.03	13,5 %
B1 Use	€ 0.00	0,0 %
B2 Maintenance	€ 0.00	0,0 %
B3 Repair	€ 0.00	0,0 %
B4 Replacement	€ 0.00	0,0 %
B5 Refurbishment	€ 0.00	0,0 %
B6 Operational Energy Use	€ 0.00	0,0 %
B7 Operational Water Use	€ 0.00	0,0 %
C1 De-construction / demolition	€ 0.00	0,0 %
C2 Transport	€ 0.00	1,0 %
C3 Waste processing	€ 0.00	0,2 %
C4 Disposal	€ 0.00	0,0 %
D Benefits and loads beyond the product system boundary	€ 0.00	-0,9 %
ECI NL 2010 per functional unit	**€ 0.22**	

4 Contact information

Publisher	Operator	Owner of declaration
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