Van Vuuren

BREEAM® | NL



Van Vuuren
Zo kan het ook

Versie 1.6.09.2026

Inhoudsopgave

BREEAM 3

Project- en productniveau 3

MAT 1 - Bouwmateriaal 4

MAT 3 - Onderbouwde herkomst materiaal 4

HEA 2 - Vluchtige organische verbindingen 5

BIJLAGEN 6

Bijlage 1: Shorts LCA en EPD 6

Bijlage 2: FSC® Van Vuuren 46

Bijlage 3: STIP Certificaat 48

Bijlage 4: VOC Certificaten 50



Op projectniveau

BREEAM is een duurzaamheidsmethode die door de BRE in Engeland is gelanceerd. De Nederlandse BREEAM heet BREEAM-NL en is door de Dutch Green Building (DGBC) geïnitieerd. BREEAM maakt een beoordeling over het gehele project (gebouw).

BREEAM-NL beoordeelt een gebouw op negen categorieën:



1. Management [MAN]
2. Gezondheid [HEA]
3. Energie [ENE]
4. Transport [TRA]
5. Water [WAT]
6. Materiaal [MAT]
7. Afval [WST]
8. Landgebruik en ecologie [LE]
9. Vervuiling [POL]

De verschillende deelpercentages leiden samen tot een totaalscore welke wordt uitgedrukt in sterren:

★☆☆☆☆	pass	groter of gelijk 30%
★★☆☆☆	good	groter of gelijk 45%
★★★☆☆	very good	groter of gelijk 55%
★★★★☆	excellent	groter of gelijk 70%
★★★★★	outstanding	groter of gelijk 85%

Op productniveau

Als deurenleverancier kunnen wij op productniveau een bijdrage leveren in een aantal van de categorieën. Tijdens de beoordeling van de producten van Van Vuuren is de meest recente versie van de BREEAM-NL beoordelingsrichtlijn 2014 versie 2 gehanteerd, met het bijbehorende interpretatiedocumenten.

Voor de deuren van Van Vuuren zijn BREEAM –NL haalbare credits de categorieën: Materiaal (MAT) en Gezondheid (HEA). Met name zijn de volgende credits relevant:

- ✔ MAT 1 - Bouwmateriaal
- ✔ MAT 3 - Onderbouwde herkomst materiaal
- ✔ HEA 2 - Vluchtige organische verbindingen

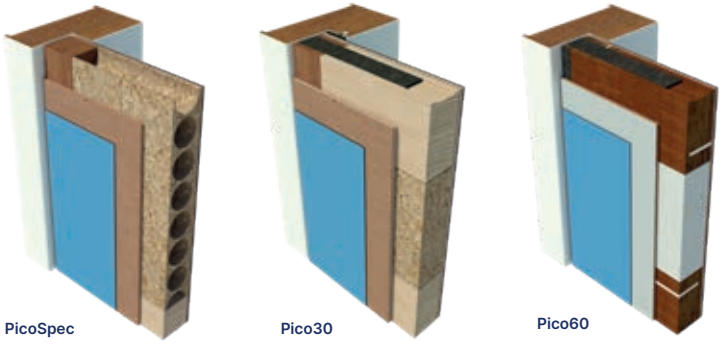
Deze relevante credits worden hierna per credit nader toegelicht.

MAT 1 Bouwmateriaal

In deze credit wordt de milieubelasting van het gehele gebouw bepaald.
De beoordelingsmethode is beschreven in bijlage 1: LCA en EPD uitleg. BREEAM-NL credit MAT 1 berekent de schaduwkosten aan de hand van een eigen ontwikkelde tool, de DGBC materialentool. Als database voor deze tool wordt de NMD gebruikt.
Van Vuuren heeft een LCA berekening laten maken voor een drietal deuren.
De tabel hieronder met LCA berekeningen toont de resultaten.

LCA berekening

Typen	Schaduwkosten per m^2
PicoSpec	€ 1,45
Pico30	€ 1,58
Pico60	€ 2,01



Bijlage 1: Shorts LCA en EPD

MAT 3 Onderbouwde herkomst materiaal

In deze credit wordt de herkomst van materialen voor de hoofdbouwdelen herleid en onderbouwd. B REEAM-NL credit MAT 3 berekent de score aan de hand van zogenaamde 'tier levels' in de DGBC materialen MAT 3 calculator.materialen MAT 3 calculator.

Aandeel % van hout in de deur

Onderdeel	Gewicht kg.	Aandeel %	Tierlevel	Onderbouwing	Bewijs
Vlasvezelplaat	25,4 kg	59 %	1	FSC® mix + STIP	SKH-COC-000015 SKH-STIP-00017
Meranti stijlen	1 kg	2,5 %	1	FSC® mix + STIP	SKH-COC-000015 SKH-STIP-00017
Vuren dorpel	1 kg	2,5 %	1	FSC® mix + STIP	SKH-COC-000015 SKH-STIP-00017
HDF board	11,2 kg	26 %	1	FSC® mix + STIP	SKH-COC-000015 SKH-STIP-00017
HPL	4 kg	9 %	1	FSC® mix + STIP	SKH-COC-000015 SKH-STIP-00017
PVAc lijm	0,5 kg	1 %	-	-	-
Totaal	**43,1 kg**	**100%**			

De herkomst van duurzame materialen die gebruikt worden in onze deuren, wordt voor 99% onderbouwt met het FSC®- en STIP-certificaat. Hiermee wordt optimaal (tier 1) bijgedragen binnen de credit MAT 3. De beoordeelde maatgevende deur bestaat uit diverse onderdelen. Deze tabel toont het percentuele aandeel in volumes en gewicht.

Bijlage 2: FSC® Van Vuuren | **Bijlage 3:** STIP-certificaat

HEA 2 Vluchtige organische verbindingen

Binnen deze credit wordt het deurengamma van Van Vuuren getoetst op de eisen van credit HEA 2: Vluchtige organische verbindingen. Bewijsvoering is op basis van testen door Eurofins. Zie bijlage 4

Bijlage 4: VOC-certificaten



Bijlage 1

Shorts LCA en EPD

Result summary

PicoSpec

Van Vuuren Grou B.V.

Calculation number:	ReTHiNK-90959
Generation on:	14-02-2025
Issue date:	14-02-2025
Valid until:	14-02-2030
Status:	verified

R<THiNK



1 General information

1.1 PRODUCT

PicoSpec

1.2 VALIDITY

Issue date: 14-02-2025
Valid until: 14-02-2030

1.3 OWNER OF THE DECLARATION

Manufacturer: Van Vuuren Grou B.V.
Address: J.W. de Visserwei 5, 9001 ZE Grou
E-mail: info@vanvuuren.nl
Website: www.vanvuuren.nl
Production location: Van Vuuren B.V.
Address production location: J.W. de Visserwei 5, 9001 ZE Grou

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



Gert-Jan Vroege, Eco Intelligence

1.5 PRODUCT CATEGORY RULES

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

1.6 FUNCTIONAL UNIT

1m2 deur

1m2 deur

Een binnendeur die voldoet aan de eisen uit het bouwbesluit. Afwerkingen en onderhoud dienen meegenomen te worden. De hoeveelheden zijn teruggerekend tot 1 m2. Bevestigingsmaterialen en hang- en sluitwerk worden niet meegenomen.

Reference unit: square meter (m2)

1.7 CONVERSION FACTORS

Description	Value	Unit
Reference unit	1	m2
Weight per reference unit	15.050	kg
Conversion factor to 1 kg	0.066445	m2

1 General information

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options 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	ND	ND	ND	ND	X	X	X	X	X

The modules of the EN15804 contain the following:

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. 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 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

2 Product

2.1 PRODUCT DESCRIPTION

De PicoSpec is een standaard utiliteitsdeur zonder specifieke functionele eigenschappen. Deze deur is geschikt voor situaties waarin geen eisen worden gesteld aan brand-, rook-, geluid- of inbraakwerendheid. De PicoSpec is opgebouwd uit houtachtige materialen en kan worden afgewerkt met verschillende toplagen zoals High Pressure Laminate, edelfineer of schilderwerk. Deze LCA beschouwd een standaarddeur zonder afwerklagen.

De deur voldoet aan de eisen van het bouwbesluit en heeft een levensduur van 50 jaar. Bevestigingsmaterialen en hang- en sluitwerk zijn niet inbegrepen.

De LCA berekening is gebaseerd op een deur met de afmetingen 930x2315x40 mm, teruggerekend naar 1m2.

2.2 DESCRIPTION PRODUCTION PROCESS

De grondstoffen komen binnen bij de fabriek in Grou. Indien van toepassing worden de grondstoffen op maat gezaagd en voorbereid. Het houten frame, de spaanplaatsvulling en de afdekpanelen gaan naar de pers. Vervolgens wordt de deur op de juiste lengte en breedte gezaagd en wordt de deur voorzien van een kantafwerking.



2.3 CONSTRUCTION DESCRIPTION

Op de productielocatie worden de deuren handmatig gemonteerd. De energie die ermee gemoeid is, is minimaal en wordt niet meegenomen in de berekening.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
AP	mol H+ eqv.	4.99E-2	6.03E-3	9.15E-3	6.50E-2	1.77E-3	2.33E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.71E-3	4.35E-3	7.79E-5	-2.55E-2	4.98E-2
GWP-total	kg CO2 eqv.	-7.40E+0	1.04E+0	1.76E+0	-4.60E+0	3.05E-1	4.13E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.95E-1	1.50E+1	1.16E+0	-2.01E+0	1.05E+1
GWP-b	kg CO2 eqv.	-1.45E+1	4.80E-4	-1.40E-1	-1.46E+1	1.41E-4	7.22E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.36E-4	1.44E+1	1.15E+0	-5.82E-1	4.04E-1
GWP-f	kg CO2 eqv.	6.99E+0	1.04E+0	1.88E+0	9.92E+0	3.05E-1	3.54E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.95E-1	1.12E+0	1.33E-2	-8.12E-1	1.12E+1
GWP-luluc	kg CO2 eqv.	9.84E-2	3.81E-4	1.84E-2	1.17E-1	1.12E-4	3.57E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.08E-4	3.50E-5	5.41E-6	-8.13E-3	1.13E-1
EP-m	kg N eqv.	9.06E-3	2.12E-3	1.59E-3	1.28E-2	6.23E-4	5.26E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.03E-4	2.02E-3	1.51E-4	-7.46E-3	9.23E-3
EP-fw	kg P eq	1.02E-3	1.05E-5	2.12E-4	1.24E-3	3.07E-6	3.78E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.97E-6	2.62E-6	6.77E-7	-6.60E-5	1.22E-3
EP-T	mol N eqv.	1.04E-1	2.34E-2	1.05E-2	1.38E-1	6.86E-3	5.95E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.64E-3	2.31E-2	2.63E-4	-1.25E-1	5.59E-2
ODP	kg CFC 11 eqv.	4.28E-7	2.29E-7	1.17E-7	7.75E-7	6.72E-8	2.92E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.51E-8	1.71E-8	2.52E-9	-2.38E-7	7.18E-7
POCP	kg NMVOC eqv.	3.68E-2	6.69E-3	7.02E-3	5.05E-2	1.96E-3	1.93E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.90E-3	6.05E-3	1.10E-4	-2.12E-2	4.13E-2
ADP-f	MJ	1.03E+2	1.57E+1	2.60E+1	1.44E+2	4.59E+0	4.70E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.45E+0	1.38E+0	1.99E-1	-9.68E+0	1.50E+2
ADP-mm	kg Sb-eqv.	6.53E-5	2.63E-5	3.37E-5	1.25E-4	7.72E-6	4.28E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.47E-6	8.29E-7	2.31E-8	-7.14E-6	1.39E-4

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)

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
WDP	m3 world eqv.	2.25E+0	5.61E-2	5.13E-1	2.82E+0	1.64E-2	8.76E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.59E-2	4.30E-2	8.62E-3	-5.51E-2	2.94E+0

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 EN15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ETP-fw	CTUe	2.01E+2	1.40E+1	8.80E+0	2.24E+2	4.10E+0	8.53E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.97E+0	3.95E+0	5.80E-1	-2.57E+2	-1.18E+1
PM	disease incidence	8.04E-7	9.35E-8	1.44E-7	1.04E-6	2.74E-8	3.57E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.65E-8	3.54E-8	1.32E-9	-3.11E-7	8.57E-7
HTP-c	CTUh	1.41E-8	4.53E-10	1.24E-8	2.70E-8	1.33E-10	2.31E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E-10	4.92E-8	6.96E-12	-2.83E-9	7.60E-8
HTP-nc	CTUh	1.19E-7	1.53E-8	2.48E-8	1.59E-7	4.48E-9	6.05E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.34E-9	1.44E-8	3.09E-10	-1.04E-7	8.45E-8
IR	kBq U235 eqv.	2.96E-1	6.57E-2	8.02E-2	4.42E-1	1.93E-2	1.46E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.86E-2	3.62E-3	7.83E-4	-1.76E-2	4.81E-1
SQP	Pt	1.25E+3	1.36E+1	1.07E+2	1.37E+3	3.98E+0	4.57E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.86E+0	5.88E-1	4.53E-1	-7.77E+2	6.45E+2

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

3 Results

ILCD classification	Indicator	Disclaimer
ILCD type / level 2	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
	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	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	7.76E-5	2.63E-5	3.62E-5	1.40E-4	7.72E-6	4.73E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.47E-6	8.29E-7	2.31E-8	-7.15E-6	1.54E-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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
GWP	Kg CO2 Equiv.	8.24E+0	1.03E+0	2.15E+0	1.14E+1	3.02E-1	3.85E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.92E-1	5.69E-1	1.05E-1	-7.98E-1	1.23E+1
ODP	Kg CFC-11 Equiv.	6.29E-7	1.83E-7	1.45E-7	9.57E-7	5.36E-8	3.37E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.19E-8	1.54E-8	2.02E-9	-2.34E-7	8.79E-7
POCP	Kg Ethene Equiv.	9.48E-3	6.22E-4	1.84E-3	1.19E-2	1.82E-4	4.00E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.76E-4	5.64E-4	2.83E-5	-2.43E-3	1.09E-2
AP	Kg SO2 Equiv.	4.69E-2	4.53E-3	9.42E-3	6.08E-2	1.33E-3	2.08E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E-3	2.94E-3	6.00E-5	-1.60E-2	5.26E-2
EP	Kg PO43- Equiv.	9.19E-3	8.90E-4	1.36E-3	1.14E-2	2.61E-4	4.14E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.53E-4	7.67E-4	7.15E-5	-5.45E-3	7.77E-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	C1	C2	C3	C4	D	Total
ADPF	Kg Sb	6.74E-2	7.58E-3	1.63E-2	9.13E-2	2.22E-3	2.93E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.15E-3	7.34E-4	9.63E-5	-5.08E-3	9.44E-2
HTP	kg 1.4 DB	4.30E+0	4.34E-1	1.10E+0	5.83E+0	1.27E-1	2.01E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.23E-1	3.66E-1	5.93E-3	-1.40E+0	5.25E+0
FAETP	kg 1.4 DB	2.15E-1	1.27E-2	4.94E-2	2.77E-1	3.71E-3	9.17E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.59E-3	1.57E-2	2.90E-4	-2.83E-2	2.81E-1
MAETP	kg 1.4 DB	2.34E+2	4.56E+1	7.06E+1	3.51E+2	1.34E+1	1.19E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E+1	1.33E+1	8.08E-1	-3.45E+1	3.68E+2

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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
TETP	kg 1.4 DB	4.10E-2	1.53E-3	2.19E-2	6.44E-2	4.50E-4	2.02E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.35E-4	4.69E-4	2.06E-5	-8.66E-3	5.92E-2

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity. fresh water | **MAETP**=Ecotoxicity. marine water (MAETP) | **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	C1	C2	C3	C4	D	Total
PERE	MJ	9.91E+1	1.96E-1	-6.87E+0	9.25E+1	5.75E-2	4.13E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-2	3.63E-2	6.61E-3	-1.58E+2	-6.12E+1
PERM	MJ	1.22E+2	0.00E+0	3.58E+1	1.58E+2	0.00E+0	4.40E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.61E+1	2.28E+2
PERT	MJ	2.21E+2	1.96E-1	2.88E+1	2.50E+2	5.75E-2	8.51E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-2	6.05E-2	6.61E-3	-1.80E+2	7.89E+1
PENRE	MJ	1.01E+2	1.66E+1	2.60E+1	1.44E+2	4.88E+0	4.69E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.72E+0	9.18E-1	2.12E-1	-6.20E+0	1.53E+2
PENRM	MJ	9.47E+0	0.00E+0	1.89E+0	1.14E+1	0.00E+0	3.41E-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	1.17E+1
PENRT	MJ	1.41E+2	1.66E+1	3.40E+1	1.92E+2	4.88E+0	6.15E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.72E+0	1.48E+0	2.12E-1	-1.05E+1	1.98E+2
SM	Kg	1.28E-7	0.00E+0	2.56E-8	1.54E-7	0.00E+0	4.61E-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	1.58E-7
RSF	MJ	1.81E-3	0.00E+0	3.62E-4	2.17E-3	0.00E+0	6.52E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.24E-3
NRSF	MJ	4.52E-5	0.00E+0	9.04E-6	5.43E-5	0.00E+0	1.63E-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	5.59E-5
FW	M3	1.07E-1	1.91E-3	2.53E-2	1.34E-1	5.60E-4	4.26E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.42E-4	6.83E-3	2.10E-4	-3.54E-4	1.46E-1

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

3 Results

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	1.60E-4	3.97E-5	5.07E-5	2.50E-4	1.16E-5	8.61E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.13E-5	8.41E-6	2.41E-7	-2.72E-5	2.63E-4
NHWD	Kg	9.45E-1	9.94E-1	6.84E-1	2.62E+0	2.91E-1	1.24E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.82E-1	1.21E-1	7.45E-1	-3.14E-1	3.87E+0
RWD	Kg	5.62E-2	1.03E-4	1.13E-2	6.75E-2	3.02E-5	2.03E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.92E-5	4.40E-6	1.16E-6	-3.98E-5	6.96E-2

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	C1	C2	C3	C4	D	Total
CRU	Kg	9.60E+1	0.00E+0	1.92E+1	1.15E+2	0.00E+0	3.46E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.19E+2
MFR	Kg	2.44E-7	0.00E+0	1.89E-1	1.89E-1	0.00E+0	1.62E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.53E-1	0.00E+0	0.00E+0	5.58E-1
MER	Kg	6.13E-3	0.00E+0	1.23E-3	7.35E-3	0.00E+0	2.21E-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	7.57E-3
EE	MJ	2.65E+1	0.00E+0	-1.33E+1	1.31E+1	0.00E+0	9.53E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-6.11E+1	-4.70E+1
EET	MJ	1.23E-5	0.00E+0	-1.18E+1	-1.18E+1	0.00E+0	4.44E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-3.86E+1	-5.04E+1
EEE	MJ	1.35E+0	0.00E+0	-6.57E+0	-5.23E+0	0.00E+0	4.85E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-2.24E+1	-2.76E+1

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	3.966	kg C
Biogenic carbon content in accompanying packaging	0	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	14.54	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	Share in total (%)
A1 Raw Materials Supply	€ 1.13	77,9 %
A2 Transport	€ 0.12	8,6 %
A3 Manufacturing	€ 0.27	18,7 %
A4 Transport from the gate to the site	€ 0.04	2,5 %
A5 Construction - Installation process	€ 0.05	3,6 %
B1 Use	€ 0.00	0,0 %
B2 Maintenance	€ 0.00	0,0 %
B3 Repair	€ 0.00	0,0 %
C1 De-construction / demolition	€ 0.00	0,0 %
C2 Transport	€ 0.04	2,4 %
C3 Waste processing	€ 0.08	5,7 %
C4 Disposal	€ 0.01	0,5 %
D Benefits and loads beyond the product system boundary	€ -0.29	-19,9 %
ECI NL per functional unit	**€ 1.45**	

4 Contact information

Publisher	Operator	Owner of declaration
Van Vuuren Grou B.V. J.W. de Visserwei 5 9001 ZE Grou, NL	**Stichting NMD** Visseringlaan 22b 2288 ER Rijswijk, NL	**Van Vuuren Grou B.V.** J.W. de Visserwei 5 9001 ZE Grou, NL
E-mail: info@vanvuuren.nl **Website:** www.vanvuuren.nl	**E-mail:** info@milieudatabase.nl **Website:** www.milieudatabase.nl	**E-mail:** info@vanvuuren.nl **Website:** www.vanvuuren.nl

Result summary

Pico30

Van Vuuren Grou B.V.

Calculation number:	ReTHiNK-90957
Generation on:	10-02-2025
Issue date:	10-02-2025
Valid until:	10-02-2030
Status:	verified

R<THiNK



1 General information

1.1 PRODUCT

Pico30

1.2 VALIDITY

Issue date: 10-02-2025

Valid until: 10-02-2030

1.3 OWNER OF THE DECLARATION

Manufacturer: Van Vuuren Grou B.V.

Address: J.W. de Visserwei 5, 9001 ZE Grou

E-mail: info@vanvuuren.nl

Website: https://vanvuuren.nl/

Production location: Van Vuuren B.V.

Address production location: J.W. de Visserwei 5, 9001 ZE Grou

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



Gert-Jan Vroege, Eco Intelligence

1.5 PRODUCT CATEGORY RULES

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

1.6 FUNCTIONAL UNIT

1m2 deur

1m2 deur

Een binnendeur die voldoet aan de eisen uit het bouwbesluit. Afwerkingen en onderhoud dienen meegenomen te worden. De hoeveelheden zijn teruggerekend tot 1 m2. Bevestigingsmaterialen en hang- en sluitwerk worden niet meegenomen.

Reference unit: square meter (m2)

1.7 CONVERSION FACTORS

Description	Value	Unit
Reference unit	1	m2
Weight per reference unit	15.050	kg
Conversion factor to 1 kg	0.066445	m2

1 General information

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options 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	ND	ND	ND	ND	X	X	X	X	X

The modules of the EN15804 contain the following:

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. 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 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

2 Product

2.1 PRODUCT DESCRIPTION

De Pico30 is een brandwerende utiliteitsdeur die 30 minuten bescherming biedt tegen brand. Dit betekent dat de deur gedurende minstens een half uur bestand is tegen branddoorslag. Naast de brandwerende functie kan de Pico30 worden gecombineerd met andere eigenschappen zoals rook-, geluid- brandvoortplanting en inbraakwerendheid. De deur is opgebouwd uit houtachtige materialen en kan worden afgewerkt met verschillende toplagen zoals High Pressure Laminate, edelfineer of schilderwerk. Deze LCA beschouwd een standaarddeur zonder afwerklagen.

De deur voldoet aan de eisen van het bouwbesluit en heeft een levensduur van 50 jaar. Bevestigingsmaterialen en hang- en sluitwerk zijn niet inbegrepen.

De deur is 30 minuten brandwerend, getest volgens de NEN-EN 1635-1

De LCA berekening is gebaseerd op een deur met de afmetingen 930x2315x40 mm, teruggerekend naar 1m2.

2.2 DESCRIPTION PRODUCTION PROCESS

De grondstoffen komen binnen bij de fabriek in Grou. Indien van toepassing worden de grondstoffen op maat gezaagd en voorbereid. Het houten frame, de spaanplaatsvulling en de afdekpanelen gaan naar de pers. Vervolgens wordt de deur op de juiste lengte en breedte gezaagd en wordt de deur voorzien van een kantafwerking.



2.3 CONSTRUCTION DESCRIPTION

Op de productielocatie worden de deuren handmatig gemonteerd. De energie die ermee gemoeid is, is minimaal en wordt niet meegenomen in de berekening.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
AP	mol H+ eqv.	6.59E-2	6.00E-3	1.18E-2	8.37E-2	1.77E-3	2.91E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.71E-3	4.34E-3	7.79E-5	-2.75E-2	6.70E-2
GWP-total	kg CO2 eqv.	-1.38E+1	1.04E+0	2.47E+0	-1.03E+1	3.05E-1	4.30E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.95E-1	2.27E+1	1.27E+0	-4.41E-1	1.43E+1
GWP-b	kg CO2 eqv.	-2.31E+1	4.78E-4	1.84E-1	-2.30E+1	1.41E-4	9.50E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.36E-4	2.21E+1	1.26E+0	6.70E-1	1.13E+0
GWP-f	kg CO2 eqv.	9.21E+0	1.03E+0	2.27E+0	1.25E+1	3.05E-1	4.17E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.95E-1	5.69E-1	1.29E-2	-1.10E+0	1.30E+1
GWP-luluc	kg CO2 eqv.	1.05E-1	3.79E-4	1.94E-2	1.25E-1	1.12E-4	3.82E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.08E-4	3.42E-5	5.41E-6	-9.71E-3	1.19E-1
EP-m	kg N eqv.	1.21E-2	2.11E-3	2.04E-3	1.63E-2	6.23E-4	6.36E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.03E-4	2.01E-3	1.51E-4	-8.04E-3	1.22E-2
EP-fw	kg P eq	1.12E-3	1.04E-5	2.29E-4	1.36E-3	3.07E-6	4.16E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.97E-6	2.57E-6	6.77E-7	-8.73E-5	1.32E-3
EP-T	mol N eqv.	1.51E-1	2.33E-2	1.78E-2	1.92E-1	6.86E-3	7.62E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.64E-3	2.31E-2	2.63E-4	-1.32E-1	1.04E-1
ODP	kg CFC 11 eqv.	7.47E-7	2.28E-7	1.72E-7	1.15E-6	6.72E-8	4.06E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.51E-8	1.68E-8	2.52E-9	-2.79E-7	1.06E-6
POCP	kg NMVOC eqv.	5.36E-2	6.66E-3	9.91E-3	7.02E-2	1.96E-3	2.54E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.90E-3	6.05E-3	1.10E-4	-2.32E-2	5.95E-2
ADP-f	MJ	1.46E+2	1.56E+1	3.37E+1	1.95E+2	4.59E+0	6.26E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.45E+0	1.36E+0	1.99E-1	-1.45E+1	1.98E+2
ADP-mm	kg Sb-eqv.	1.14E-4	2.62E-5	4.23E-5	1.82E-4	7.72E-6	6.02E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.47E-6	8.06E-7	2.28E-8	-1.27E-5	1.91E-4
WDP		4.78E+0	5.58E-2	1.01E+0	5.85E+0	1.64E-2	1.79E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.59E-2	4.26E-2	8.62E-3	-1.11E-1	6.00E+0

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)

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
	m3 world eqv.															

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 EN15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ETP-fw	CTUe	2.62E+2	1.39E+1	1.74E+1	2.93E+2	4.10E+0	1.07E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.97E+0	3.69E+0	5.80E-1	-2.64E+2	5.17E+1
PM	disease incidence	1.37E-6	9.31E-8	2.43E-7	1.70E-6	2.74E-8	5.60E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.65E-8	3.54E-8	1.32E-9	-3.73E-7	1.48E-6
HTP-c	CTUh	2.84E-8	4.51E-10	1.17E-8	4.06E-8	1.33E-10	2.12E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E-10	2.91E-8	6.94E-12	-3.05E-9	6.91E-8
HTP-nc	CTUh	1.69E-7	1.52E-8	3.28E-8	2.17E-7	4.48E-9	7.84E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.34E-9	1.43E-8	3.09E-10	-1.11E-7	1.37E-7
IR	kBq U235 eqv.	4.36E-1	6.54E-2	1.03E-1	6.05E-1	1.93E-2	1.97E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.86E-2	3.55E-3	7.83E-4	-4.53E-2	6.21E-1
SQP	Pt	1.60E+3	1.35E+1	1.21E+2	1.73E+3	3.98E+0	5.83E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.86E+0	5.70E-1	4.53E-1	-1.06E+3	7.42E+2

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

3 Results

ILCD classification	Indicator	Disclaimer
ILCD type / level 2	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
	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	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	1.14E-4	2.62E-5	4.23E-5	1.82E-4	7.72E-6	6.02E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.47E-6	8.06E-7	2.28E-8	-1.27E-5	1.91E-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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
GWP	Kg CO2 Equiv.	9.18E+0	1.03E+0	2.28E+0	1.25E+1	3.02E-1	4.19E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.92E-1	5.67E-1	1.05E-1	-1.09E+0	1.31E+1
ODP	Kg CFC-11 Equiv.	6.99E-7	1.82E-7	1.51E-7	1.03E-6	5.36E-8	3.62E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.19E-8	1.51E-8	2.02E-9	-2.71E-7	9.21E-7
POCP	Kg Ethene Equiv.	1.34E-2	6.19E-4	2.55E-3	1.65E-2	1.82E-4	5.41E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.76E-4	5.63E-4	2.83E-5	-2.75E-3	1.53E-2
AP	Kg SO2 Equiv.	5.27E-2	4.51E-3	1.02E-2	6.75E-2	1.33E-3	2.29E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E-3	2.94E-3	6.01E-5	-1.75E-2	5.78E-2
EP	Kg PO43- Equiv.	9.92E-3	8.86E-4	1.41E-3	1.22E-2	2.61E-4	4.40E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.53E-4	7.66E-4	7.16E-5	-5.76E-3	8.24E-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	C1	C2	C3	C4	D	Total
ADPF	Kg Sb	7.53E-2	7.54E-3	1.75E-2	1.00E-1	2.22E-3	3.21E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.15E-3	7.27E-4	9.63E-5	-7.22E-3	1.01E-1
HTP	kg 1.4 DB	4.79E+0	4.32E-1	1.16E+0	6.38E+0	1.27E-1	2.19E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.23E-1	3.65E-1	5.92E-3	-1.52E+0	5.71E+0
FAETP	kg 1.4 DB	2.28E-1	1.26E-2	5.02E-2	2.91E-1	3.71E-3	9.44E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.59E-3	1.04E-2	2.84E-4	-3.17E-2	2.86E-1
MAETP	kg 1.4 DB	2.93E+2	4.54E+1	8.05E+1	4.19E+2	1.34E+1	1.40E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E+1	1.26E+1	8.00E-1	-4.33E+1	4.30E+2

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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
TETP	kg 1.4 DB	4.31E-2	1.53E-3	2.21E-2	6.67E-2	4.50E-4	2.10E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.35E-4	4.67E-4	2.06E-5	-9.68E-3	6.05E-2

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity. fresh water | **MAETP**=Ecotoxicity. marine water (MAETP) | **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	C1	C2	C3	C4	D	Total
PERE	MJ	1.01E+2	1.95E-1	-2.71E+0	9.85E+1	5.75E-2	4.20E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-2	5.90E-2	6.62E-3	-2.14E+2	-1.12E+2
PERM	MJ	1.94E+2	0.00E+0	3.79E+1	2.32E+2	0.00E+0	6.99E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-5.12E+0	2.34E+2
PERT	MJ	2.95E+2	1.95E-1	3.52E+1	3.31E+2	5.75E-2	1.12E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-2	5.90E-2	6.62E-3	-2.20E+2	1.22E+2
PENRE	MJ	1.36E+2	1.66E+1	3.21E+1	1.85E+2	4.88E+0	5.98E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.72E+0	1.47E+0	2.12E-1	-1.56E+1	1.87E+2
PENRM	MJ	1.94E+1	0.00E+0	3.87E+0	2.32E+1	0.00E+0	6.97E-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	2.39E+1
PENRT	MJ	1.56E+2	1.66E+1	3.60E+1	2.08E+2	4.88E+0	6.68E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.72E+0	1.47E+0	2.12E-1	-1.56E+1	2.11E+2
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
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
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
FW	M3	1.44E-1	1.90E-3	3.23E-2	1.79E-1	5.60E-4	5.62E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.42E-4	6.81E-3	2.10E-4	-3.09E-3	1.89E-1

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

3 Results

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	2.09E-4	3.95E-5	5.74E-5	3.06E-4	1.16E-5	1.03E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.13E-5	6.49E-6	2.41E-7	-4.18E-5	3.04E-4
NHWD	Kg	1.26E+0	9.90E-1	7.30E-1	2.98E+0	2.91E-1	1.35E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.82E-1	1.09E-1	7.45E-1	-3.96E-1	4.15E+0
RWD	Kg	4.63E-4	1.02E-4	1.14E-4	6.79E-4	3.02E-5	2.27E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.92E-5	4.33E-6	1.16E-6	-6.84E-5	6.98E-4

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	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
MFR	Kg	0.00E+0	0.00E+0	7.06E-2	7.06E-2	0.00E+0	1.27E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.53E-1	0.00E+0	0.00E+0	4.36E-1
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
EE	MJ	0.00E+0	0.00E+0	-1.94E+1	-1.94E+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	-1.01E+2	-1.20E+2
EET	MJ	0.00E+0	0.00E+0	-1.23E+1	-1.23E+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	-6.37E+1	-7.60E+1
EEE	MJ	0.00E+0	0.00E+0	-7.14E+0	-7.14E+0	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	-3.70E+1	-4.41E+1

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	6.313	kg C
Biogenic carbon content in accompanying packaging	0	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	23.15	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	Share in total (%)
A1 Raw Materials Supply	€ 1.27	80,5 %
A2 Transport	€ 0.12	7,8 %
A3 Manufacturing	€ 0.29	18,5 %
A4 Transport from the gate to the site	€ 0.04	2,3 %
A5 Construction - Installation process	€ 0.06	3,6 %
B1 Use	€ 0.00	0,0 %
B2 Maintenance	€ 0.00	0,0 %
B3 Repair	€ 0.00	0,0 %
C1 De-construction / demolition	€ 0.00	0,0 %
C2 Transport	€ 0.04	2,2 %
C3 Waste processing	€ 0.08	5,2 %
C4 Disposal	€ 0.01	0,4 %
D Benefits and loads beyond the product system boundary	€ -0.33	-20,6 %
ECI NL per functional unit	**€ 1.58**	

4 Contact information

Publisher	Operator	Owner of declaration
CARRIÈRES CUVELIER PHILIPPE S.A.		Van Vuuren
Van Vuuren Grou B.V. J.W. de Visserwei 5 9001 ZE Grou, NL	**Stichting NMD** Visseringlaan 22b 2288 ER Rijswijk, NL	**Van Vuuren Grou B.V.** J.W. de Visserwei 5 9001 ZE Grou, NL
E-mail: info@vanvuuren.nl **Website:** https://vanvuuren.nl/	**E-mail:** info@milieudatabase.nl **Website:** www.milieudatabase.nl	**E-mail:** info@vanvuuren.nl **Website:** https://vanvuuren.nl/

Result summary

Pico60

Van Vuuren Grou B.V.

Calculation number:	ReTHiNK-90958
Generation on:	14-02-2025
Issue date:	14-02-2025
Valid until:	14-02-2030
Status:	verified

R<THiNK



1 General information

1.1 PRODUCT

Pico60

1.2 VALIDITY

Issue date: 14-02-2025
Valid until: 14-02-2030

1.3 OWNER OF THE DECLARATION

Manufacturer: Van Vuuren Grou B.V.
Address: J.W. de Visserwei 5, 9001 ZE Grou
E-mail: info@vanvuuren.nl
Website: www.vanvuuren.nl
Production location: Van Vuuren B.V.
Address production location: J.W. de Visserwei 5, 9001 ZE Grou

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



Gert-Jan Vroege, Eco Intelligence

1.5 PRODUCT CATEGORY RULES

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

1.6 FUNCTIONAL UNIT

1m2 deur

1m2 deur

Een binnendeur die voldoet aan de eisen uit het bouwbesluit. Afwerkingen en onderhoud dienen meegenomen te worden. De hoeveelheden zijn teruggerekend tot 1 m2. Bevestigingsmaterialen en hang- en sluitwerk worden niet meegenomen.

Reference unit: square meter (m2)

1.7 CONVERSION FACTORS

Description	Value	Unit
Reference unit	1	m2
Weight per reference unit	17.697	kg
Conversion factor to 1 kg	0.056507	m2

1 General information

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options 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	ND	ND	ND	ND	X	X	X	X	X

The modules of the EN15804 contain the following:

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. 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 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

2 Product

2.1 PRODUCT DESCRIPTION

De Pico60 is een brandwerende utiliteitsdeur die 60 minuten bescherming biedt tegen brand. Dit betekent dat de deur gedurende minstens één uur bestand is tegen branddoorslag. Naast de brandwerende eigenschap kan de Pico60 worden gecombineerd met andere functies zoals rook-, geluid- brandvoortplanting en inbraakwerendheid. De deur is opgebouwd uit houtachtige materialen en kan worden afgewerkt met diverse toplagen zoals High Pressure Laminate, edelfineer of schilderwerk. Deze LCA beschouwd een standaarddeur zonder afwerklagen.

De deur voldoet aan de eisen van het bouwbesluit en heeft een levensduur van 50 jaar. Bevestigingsmaterialen en hang- en sluitwerk zijn niet inbegrepen.

De deur is 60 minuten brandwerend, getest volgens de NEN-EN 1635-1

De LCA berekening is gebaseerd op een deur met de afmetingen 930x2315x54 mm, teruggerekend naar 1m2.

2.2 DESCRIPTION PRODUCTION PROCESS

De grondstoffen komen binnen bij de fabriek in Grou. Indien van toepassing worden de grondstoffen op maat gezaagd en voorbereid. Het houten frame, de spaanplaatsvulling en de afdekpanelen gaan naar de pers. Vervolgens wordt de deur op de juiste lengte en breedte gezaagd en wordt de deur voorzien van een kantafwerking.



2.3 CONSTRUCTION DESCRIPTION

Op de productielocatie worden de deuren handmatig gemonteerd. De energie die ermee gemoeid is, is minimaal en wordt niet meegenomen in de berekening.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
AP	mol H+ eqv.	6.88E-2	8.50E-3	1.24E-2	8.97E-2	2.08E-3	3.01E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.71E-3	2.66E-3	7.92E-4	-1.65E-2	8.34E-2
GWP-total	kg CO2 eqv.	-3.17E+0	1.47E+0	4.84E+0	3.14E+0	3.59E-1	5.86E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.95E-1	1.32E+1	1.69E+0	-4.98E-1	1.87E+1
GWP-b	kg CO2 eqv.	-1.34E+1	6.76E-4	-3.40E-2	-1.35E+1	1.65E-4	-3.01E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.36E-4	1.19E+1	6.96E-1	6.71E-1	-2.52E-1
GWP-f	kg CO2 eqv.	1.02E+1	1.47E+0	4.86E+0	1.65E+1	3.58E-1	6.13E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.95E-1	1.30E+0	9.91E-1	-1.16E+0	1.89E+1
GWP-luluc	kg CO2 eqv.	1.05E-1	5.37E-4	1.72E-2	1.23E-1	1.31E-4	3.73E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.08E-4	2.23E-5	4.34E-5	-5.82E-3	1.21E-1
EP-m	kg N eqv.	1.37E-2	2.99E-3	2.52E-3	1.92E-2	7.32E-4	6.93E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.03E-4	1.23E-3	3.84E-4	-4.88E-3	1.79E-2
EP-fw	kg P eq	1.22E-3	1.48E-5	2.20E-4	1.45E-3	3.61E-6	4.42E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.98E-6	1.65E-6	2.09E-6	-5.16E-5	1.46E-3
EP-T	mol N eqv.	1.58E-1	3.30E-2	2.49E-2	2.16E-1	8.07E-3	7.88E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.65E-3	1.41E-2	2.93E-3	-7.94E-2	1.76E-1
ODP	kg CFC 11 eqv.	6.53E-7	3.23E-7	5.36E-8	1.03E-6	7.91E-8	4.08E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.51E-8	1.12E-8	2.84E-8	-2.41E-7	1.01E-6
POCP	kg NMVOC eqv.	5.86E-2	9.43E-3	1.06E-2	7.87E-2	2.30E-3	2.72E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.90E-3	3.69E-3	1.08E-3	-1.41E-2	7.63E-2
ADP-f	MJ	1.66E+2	2.21E+1	2.00E+1	2.08E+2	5.40E+0	7.11E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.45E+0	9.19E-1	2.17E+0	-1.67E+1	2.11E+2
ADP-mm	kg Sb-eqv.	1.17E-4	3.71E-5	4.18E-5	1.96E-4	9.08E-6	6.48E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.47E-6	5.68E-7	9.48E-7	-7.84E-6	2.13E-4
WDP		3.49E+0	7.91E-2	5.83E-1	4.15E+0	1.93E-2	1.31E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.59E-2	2.14E-2	9.34E-2	-5.34E-2	4.38E+0

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)

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
	m3 world eqv.															

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 EN15804+A2

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ETP-fw	CTUe	3.02E+2	1.97E+1	4.19E+1	3.63E+2	4.82E+0	1.21E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.97E+0	2.63E+0	2.22E+0	-1.57E+2	2.32E+2
PM	disease incidence	1.94E-6	1.32E-7	3.36E-7	2.41E-6	3.22E-8	7.63E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.65E-8	2.18E-8	1.50E-8	-2.22E-7	2.36E-6
HTP-c	CTUh	1.60E-8	6.39E-10	1.23E-8	2.89E-8	1.56E-10	1.75E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E-10	2.85E-8	1.13E-10	-1.84E-9	5.77E-8
HTP-nc	CTUh	1.97E-7	2.16E-8	5.52E-8	2.73E-7	5.27E-9	9.25E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.34E-9	1.21E-8	1.68E-9	-6.60E-8	2.40E-7
IR	kBq U235 eqv.	5.93E-1	9.26E-2	1.19E-1	8.04E-1	2.26E-2	2.60E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.86E-2	2.40E-3	8.55E-3	-3.07E-2	8.52E-1
SQP	Pt	1.35E+3	1.92E+1	1.31E+2	1.50E+3	4.69E+0	4.85E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.86E+0	4.34E-1	5.15E+0	-6.34E+2	9.27E+2

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

3 Results

ILCD classification	Indicator	Disclaimer
ILCD type / level 2	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
	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	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	1.17E-4	3.71E-5	4.18E-5	1.96E-4	9.08E-6	6.48E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.47E-6	5.68E-7	9.48E-7	-7.84E-6	2.13E-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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
GWP	Kg CO2 Equiv.	1.01E+1	1.45E+0	4.86E+0	1.64E+1	3.55E-1	6.08E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.93E-1	1.30E+0	9.24E-1	-1.15E+0	1.87E+1
ODP	Kg CFC-11 Equiv.	6.75E-7	2.58E-7	5.71E-8	9.90E-7	6.30E-8	3.80E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.19E-8	1.00E-8	2.28E-8	-2.26E-7	9.49E-7
POCP	Kg Ethene Equiv.	1.42E-2	8.77E-4	2.41E-3	1.75E-2	2.14E-4	5.65E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.76E-4	3.38E-4	2.24E-4	-1.65E-3	1.74E-2
AP	Kg SO2 Equiv.	5.57E-2	6.39E-3	1.04E-2	7.24E-2	1.56E-3	2.40E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E-3	1.80E-3	6.02E-4	-1.06E-2	6.95E-2
EP	Kg PO43- Equiv.	1.07E-2	1.26E-3	1.77E-3	1.37E-2	3.07E-4	4.68E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.53E-4	4.79E-4	1.97E-4	-3.46E-3	1.20E-2

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	C1	C2	C3	C4	D	Total
ADPF	Kg Sb	8.09E-2	1.07E-2	9.20E-3	1.01E-1	2.61E-3	3.48E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.15E-3	4.89E-4	1.05E-3	-8.75E-3	1.02E-1
HTP	kg 1.4 DB	4.70E+0	6.12E-1	1.21E+0	6.52E+0	1.50E-1	2.19E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.23E-1	2.50E-1	5.34E-2	-9.25E-1	6.39E+0
FAETP	kg 1.4 DB	2.08E-1	1.79E-2	5.29E-2	2.78E-1	4.37E-3	9.63E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.60E-3	1.17E-2	1.95E-2	-1.90E-2	3.08E-1
MAETP	kg 1.4 DB	2.41E+2	6.42E+1	1.05E+2	4.11E+2	1.57E+1	1.47E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.29E+1	1.86E+1	2.70E+1	-2.66E+1	4.74E+2

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

3 Results

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
TETP	kg 1.4 DB	4.55E-2	2.16E-3	2.29E-2	7.06E-2	5.29E-4	2.20E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.35E-4	5.33E-4	1.88E-4	-5.84E-3	6.86E-2

ADPF=Depletion of abiotic resources-fossil fuels | **HTP**=Human toxicity | **FAETP**=Ecotoxicity. fresh water | **MAETP**=Ecotoxicity. marine water (MAETP) | **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	C1	C2	C3	C4	D	Total
PERE	MJ	9.99E+1	2.77E-1	1.47E+1	1.15E+2	6.76E-2	4.07E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-2	3.82E-2	3.97E-2	-1.26E+2	-7.00E+0
PERM	MJ	1.22E+2	0.00E+0	1.98E+1	1.42E+2	0.00E+0	4.27E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-5.11E+0	1.41E+2
PERT	MJ	2.72E+2	2.77E-1	4.32E+1	3.15E+2	6.76E-2	1.01E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-2	3.82E-2	3.97E-2	-1.31E+2	1.95E+2
PENRE	MJ	1.18E+2	2.35E+1	1.06E+1	1.52E+2	5.74E+0	5.52E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.72E+0	9.90E-1	2.31E+0	-1.89E+1	1.52E+2
PENRM	MJ	1.99E+1	0.00E+0	3.50E+0	2.34E+1	0.00E+0	7.00E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.50E-1	2.48E+1
PENRT	MJ	1.76E+2	2.35E+1	2.06E+1	2.20E+2	5.74E+0	7.56E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.72E+0	9.90E-1	2.31E+0	-1.83E+1	2.23E+2
SM	Kg	1.95E-2	0.00E+0	3.31E-3	2.28E-2	0.00E+0	6.84E-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	2.35E-2
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
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
FW	M3	1.26E-1	2.69E-3	2.41E-2	1.52E-1	6.58E-4	4.83E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.42E-4	4.15E-3	2.27E-3	-1.16E-3	1.64E-1

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

3 Results

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbr.	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	1.96E-4	5.60E-5	3.97E-5	2.91E-4	1.37E-5	1.05E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.13E-5	6.13E-6	3.32E-6	-3.74E-5	2.99E-4
NHWD	Kg	1.35E+0	1.40E+0	7.56E-1	3.51E+0	3.43E-1	3.89E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.82E-1	8.56E-2	8.69E+0	-2.40E-1	1.31E+1
RWD	Kg	5.63E-4	1.45E-4	1.21E-4	8.28E-4	3.55E-5	2.77E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.92E-5	2.97E-6	1.30E-5	-4.59E-5	8.91E-4

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	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
MFR	Kg	0.00E+0	0.00E+0	6.00E-2	6.00E-2	0.00E+0	1.24E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.53E-1	0.00E+0	0.00E+0	4.25E-1
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
EE	MJ	0.00E+0	0.00E+0	-2.04E+1	-2.04E+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	-6.64E+1	-8.69E+1
EET	MJ	0.00E+0	0.00E+0	-1.29E+1	-1.29E+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	-4.20E+1	-5.50E+1
EEE	MJ	0.00E+0	0.00E+0	-7.51E+0	-7.51E+0	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	-2.44E+1	-3.19E+1

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	3.953	kg C
Biogenic carbon content in accompanying packaging	0	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	14.5	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	Share in total (%)
A1 Raw Materials Supply	€ 1.32	65,7 %
A2 Transport	€ 0.18	8,7 %
A3 Manufacturing	€ 0.43	21,4 %
A4 Transport from the gate to the site	€ 0.04	2,1 %
A5 Construction - Installation process	€ 0.07	3,4 %
B1 Use	€ 0.00	0,0 %
B2 Maintenance	€ 0.00	0,0 %
B3 Repair	€ 0.00	0,0 %
C1 De-construction / demolition	€ 0.00	0,0 %
C2 Transport	€ 0.04	1,8 %
C3 Waste processing	€ 0.10	5,1 %
C4 Disposal	€ 0.06	2,9 %
D Benefits and loads beyond the product system boundary	€ -0.22	-11,1 %
ECI NL per functional unit	**€ 2.01**	

4 Contact information

Publisher	Operator	Owner of declaration
Van Vuuren Grou B.V. J.W. de Visserwei 5 9001 ZE Grou, NL	**Stichting NMD** Visseringlaan 22b 2288 ER Rijswijk, NL	**Van Vuuren Grou B.V.** J.W. de Visserwei 5 9001 ZE Grou, NL
E-mail: info@vanvuuren.nl **Website:** www.vanvuuren.nl	**E-mail:** info@milieudatabase.nl **Website:** www.milieudatabase.nl	**E-mail:** info@vanvuuren.nl **Website:** www.vanvuuren.nl

Bijlage 2

FSC® Van Vuuren

SKH
ONAFHANKELIJKE CERTIFICERING

Nieuwe Kanaal 9F, 6709 PA WAGENINGEN
Telefoon: (0317) 45 34 25
E: mail@skh.nl | **W**: www.skh.nl

CERTIFICAAT

SKH-FSC-COC CERTIFICAAT

SKH verklaart hierbij dat de door

Van Vuuren Grou B.V.
h.o.d.n. Van Vuuren Deuren

J.W. Visserwei 5
9001 ZE GROU

gehanteerde

Chain of Custody

Voldoet aan de door de FSC gestelde criteria volgens FSC-STD-40-004 V3-1 en is als zodanig geregistreerd

SKH erkent het Chain of Custody systeem op grond van dit certificaat en op grond van de periodieke inspecties op het COC systeem voor de periode van

4 maart 2025 tot 4 maart 2030

Dit certificaat is geldig voor de scope: productie van bouwmaterialen (W11)

Geldigheid van deze certificering en gedetailleerde informatie betreffende de scope dient te worden gecontroleerd op info.fsc.org

Voor SKH:

Directeur

drs. H.J.O. van Doorn

Datum

4 **maart 2025, versie 1**

Certificaat nummer

SKH-COC-000015

Dit certificaat blijft eigendom van SKH
Het certificaat en alle kopieën dienen terug gestuurd te worden naar SKH onmiddellijk na verzoek daartoe

Dit certificaat bewijst op zichzelf niet dat een bepaald product geleverd door de certificaathouder FSC of FSC Controlled Wood gecertificeerd is. Producten aangeboden, verscheept of verkocht door de certificaathouder vallen alleen onder het certificaat wanneer de vereiste FSC claim en code duidelijk vermeld is op verkoop- en transportdocumenten.

FSC
www.fsc.org
FSC® A000526
The mark of responsible forestry

Bijlage 3

STIP Certificaat

SKH
zekerheid met meerwaarde

Postbus 159, 6700 AD WAGENINGEN
Nieuwe Kanaal 9F, 6709 PA WAGENINGEN
Telefoon: (0317) 45 34 25
E: mail@skh.nl | **W**: skh.nl

CERTIFICAAT

SKH-STIP CERTIFICAAT

SKH verklaart hierbij dat

Van Vuuren Grou B.V.
h.o.d.n. Van Vuuren Deuren

J.W. Visserwei 5
9001 ZE GROU

voldoet aan de eisen geformuleerd in de STIP regeling
en als STIP bedrijf is geregistreerd

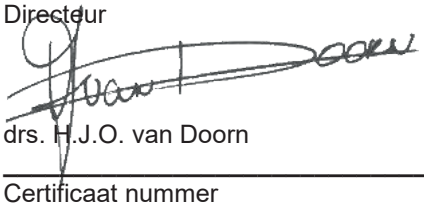
SKH beoordeelt initieel het kwaliteitssysteem en vervolgens middels periodieke controles volgens de op dat moment vigerende STIP regeling
Uitgegeven op:

1 januari 2018

Geldigheid van dit SKH-STIP certificaat kan worden gecontroleerd op:
www.stip.org en www.skh.nl

Voor SKH:

Directeur



drs. H.J.O. van Doorn

Datum

1 december 2021, versie 2

Certificaat nummer

SKH-STIP-00017

Dit SKH-STIP certificaat blijft eigendom van SKH

STIP®

Bijlage 4

VOC Certificaten

Attestation

BREEAM®

On the 2nd of November 2023 Eurofins Product Testing A/S received a sample of a door with the product name:

PicoSpec

supplied by

Van Vuuren Grou B.V.

The sample was supplied as being representative of the manufactured product, and it has been tested as in accordance with the relevant EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9 and ISO 16000-11 testing standards (See test report no. 392-2023-00473902_A_EN and).

The test results of the tested sample indicate that the product qualifies for the below mentioned BREEAM specifications on VOC emissions by complying with:

- **BREEAM® International: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM International: New Construction 2021, Technical Manual – SD250: Hea 02 Indoor Air Quality (version 6.0. of December 2021).
- **BREEAM® UK: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM UK: New Construction 2023, Technical Manual: Hea 02 Indoor Air Quality (version SD5079 issue 6.1 of June 2023).
- **BREEAM® NL: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NL: Nieuwbouw 2020, Technical Manual: Hea 02 Interne Luchtkwaliteit (Version 1.0 of June 2020).
- **BREEAM® SE: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM SE: New Construction 2021, Technical Manual: Hea 02 Indoor Air Quality (version 6.0. of January 2023).
- **BREEAM® NOR: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NOR: New Construction 2022, Technical Manual - SD5076NOR, Hea 02 Indoor Air Quality (version 6.0 of February 2022).

13 December 2023

Frederik Foged Haugaard
Analytical Service Manager

Laura Hartung Sørensen
Analytical Service Manager

Attestation

BREEAM®

On the 2nd of November 2023 Eurofins Product Testing A/S received a sample of a door with the product name:

Pico30

supplied by

Van Vuuren Grou B.V.

The sample was supplied as being representative of the manufactured product, and it has been tested as in accordance with the relevant EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9 and ISO 16000-11 testing standards (See test report no. 392-2023-00473901_A_EN).

The test results of the tested sample indicate that the product qualifies for the below mentioned BREEAM specifications on VOC emissions by complying with:

- **BREEAM® International: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM International: New Construction 2021, Technical Manual – SD250: Hea 02 Indoor Air Quality (version 6.0. of December 2021).
- **BREEAM® UK: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM UK: New Construction 2023, Technical Manual: Hea 02 Indoor Air Quality (version SD5079 issue 6.1 of June 2023).
- **BREEAM® NL: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NL: Nieuwbouw 2020, Technical Manual: Hea 02 Interne Luchtkwaliteit (Version 1.0 of June 2020).
- **BREEAM® SE Compliance with 'Exemplary' criteria on VOC emission** of BREEAM SE: New Construction 2021, Technical Manual: Hea 02 Indoor Air Quality (version 6.0. of January 2023).
- **BREEAM® NOR: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NOR: New Construction 2022, Technical Manual - SD5076NOR, Hea 02 Indoor Air Quality (version 6.0 of February 2022).

13 December 2023

Frederik Foged Haugaard
Analytical Service Manager

Laura Hartung Sørensen
Analytical Service Manager

Attestation

BREEAM®

On the 2nd of November 2023 Eurofins Product Testing A/S received a sample of a door with the product name:

Pico60 40mm

supplied by

Van Vuuren Grou B.V.

The sample was supplied as being representative of the manufactured product, and it has been tested as in accordance with the relevant EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9 and ISO 16000-11 testing standards (See test report no. 392-2023-00473903_A_EN and).

The test results of the tested sample indicate that the product qualifies for the below mentioned BREEAM specifications on VOC emissions by complying with:

- **BREEAM® International: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM International: New Construction 2021, Technical Manual – SD250: Hea 02 Indoor Air Quality (version 6.0. of December 2021).
- **BREEAM® UK: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM UK: New Construction 2023, Technical Manual: Hea 02 Indoor Air Quality (version SD5079 issue 6.1 of June 2023).
- **BREEAM® NL: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NL: Nieuwbouw 2020, Technical Manual: Hea 02 Interne Luchtkwaliteit (Version 1.0 of June 2020).
- **BREEAM® SE: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM SE: New Construction 2021, Technical Manual: Hea 02 Indoor Air Quality (version 6.0. of January 2023).
- **BREEAM® NOR: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NOR: New Construction 2022, Technical Manual - SD5076NOR, Hea 02 Indoor Air Quality (version 6.0 of February 2022).

13 December 2023

Frederik Foged Haugaard
Analytical Service Manager

Laura Hartung Sørensen
Analytical Service Manager

Attestation

BREEAM®

On the 2nd of November 2023 Eurofins Product Testing A/S received a sample of a door with the product name:

Pico60 54mm

supplied by

Van Vuuren Grou B.V.

The sample was supplied as being representative of the manufactured product, and it has been tested as in accordance with the relevant EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9 and ISO 16000-11 testing standards (See test report no. 392-2023-00473904_A_EN and).

The test results of the tested sample indicate that the product qualifies for the below mentioned BREEAM specifications on VOC emissions by complying with:

- **BREEAM® International: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM International: New Construction 2021, Technical Manual – SD250: Hea 02 Indoor Air Quality (version 6.0. of December 2021).
- **BREEAM® UK: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM UK: New Construction 2023, Technical Manual: Hea 02 Indoor Air Quality (version SD5079 issue 6.1 of June 2023).
- **BREEAM® NL: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NL: Nieuwbouw 2020, Technical Manual: Hea 02 Interne Luchtkwaliteit (Version 1.0 of June 2020).
- **BREEAM® SE: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM SE: New Construction 2021, Technical Manual: Hea 02 Indoor Air Quality (version 6.0. of January 2023).
- **BREEAM® NOR: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NOR: New Construction 2022, Technical Manual - SD5076NOR, Hea 02 Indoor Air Quality (version 6.0 of February 2022).

13 December 2023

Frederik Foged Haugaard
Analytical Service Manager

Laura Hartung Sørensen
Analytical Service Manager

Van Vuuren

Van Vuuren Grou B.V. • J.W. de Visserwei 5 • 9001 ZE Grou
+31 (0)566 62 37 37 • sales@vanvuuren.nl • www.vanvuuren.nl