

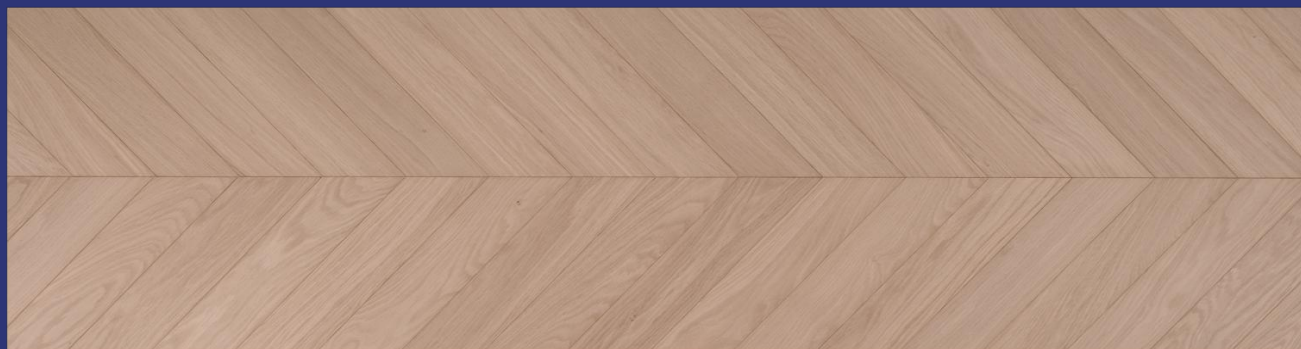


**Environmental
Product
Declaration**

According to ISO14025+EN15804+A2

This declaration is for:
Engineered Eur. Oak 20

Provided by:
Heywood Vloeren B.V.



MRPI® registration
1.1.00823.2025

program operator
Stichting MRPI®
publisher
Stichting MRPI®
www.mrpi.nl

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2-5-2025
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COMPANY INFORMATION

Heywood Vloeren B.V.

Scheldestraat 30

5347 JD

Oss

Netherlands

info@heywoodvloeren.com

<https://www.heywoodvloeren.nl/>

MRPI® REGISTRATION

1.1.00823.2025

DATE OF THIS ISSUE

2-5-2025

EXPIRY DATE

2-5-2030

SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Gert-Jan Vroege, Eco Intelligence. The LCA study has been done by Lily Gao, Brienne Wiersema, Ecomatters B.V.. The certificate is based on an LCA-dossier according to ISO14025+EN15804+A2. It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2. Declaration of SVHC that are listed on the 'Candidate list of Substances of Very High Concern for authorisation' when content exceeds the limits for registration with ECHA.

PROGRAM OPERATOR

Stichting MRPI®

Kingsfordweg 151

1043 GR

Amsterdam

PRODUCT

Engineered Eur. Oak 20

DECLARED UNIT / FUNCTIONAL UNIT

1 m2 of wooden flooring

DESCRIPTION OF PRODUCT

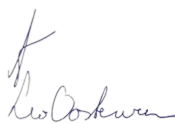
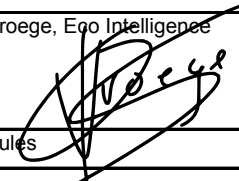
Engineered wood flooring for indoor use

VISUAL PRODUCT



MORE INFORMATION

<https://www.heywoodvloeren.nl/>

	Ing. L. L. Oosterveen MSc. MBA Managing Director MRPI	DEMONSTRATION OF VERIFICATION
		CEN standard EN15804 serves as the core PCR [1]
		Independent verification of the declaration an data according to ISO14025+EN15804+A2 internal: external: X
		Third party verifier: Gert-Jan Vroege, Eco Intelligence  [1] PCR = Product Category Rules





DETAILED PRODUCT DESCRIPTION (PART 1)

Production processes

Gluing toplayers of oak onto a plywood base, profiling, sanding, brushing, and finishing using UV-oil.

Condition of delivery

Ready for installation once delivered with guidelines for handling to prevent damage during loading, unloading, and storage.

Product components

Toplayer, plywood, glue, UV-oil

Product service life

20 years

Product specification	Value
Commercial name	Engineered Eur. Oak 20
Product weight [kg]	15
Thickness [mm]	20
Area of application	Indoor
Geographic region of intended installation	GLO

Component (> 1%)	(kg / %)
Toplayer OAK	Confidential
Plywood BIRCH	Confidential

SCOPE AND TYPE

The system boundaries of this EPD are defined as Cradle-to-Grave and module D. All major steps per declared module, from the extraction of natural resources to the final disposal of the product, are included in the scope of the study. All impacts associated with mining activities, the upstream production of materials and energy, and downstream waste treatment, are included in the product system. The emissions and resource extraction derived from these processes are considered elementary exchanges between the product systems and the environment.

This EPD is representative for products produced in Oss, the Netherlands and the majority of the application market is within Europe, the rest is outside of Europe. For the end-of-life, as a conservative assumption, the fate of the floorings is described within a global context.

The software Sphera LCA for Experts 10.9.0.31 is used to perform the LCA, using Ecoinvent 3.10 database in the model.

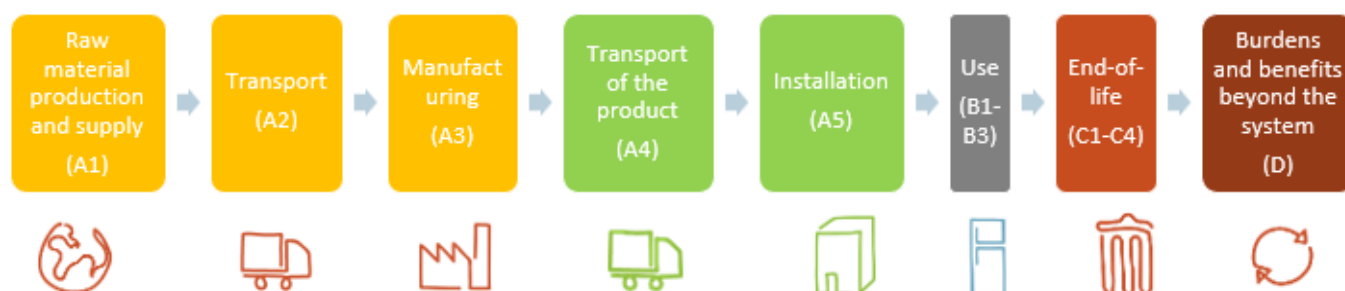
The validity of this EPD is in correspondence with the specifications of the LCA project report.



PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USER STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse - Recovery - Recycling potential
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

X = Modules Assessed

ND = Not Declared



REPRESENTATIVENESS

This EPD is representative of one wooden flooring product: Engineered Eur. Oak 20. All products are manufactured in one production site in Oss, the Netherlands.

ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	-2,93E+01	2,63E+00	1,17E+01	-1,49E+01	2,39E+00	1,57E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,62E-01	0,00E+00	3,53E+01	-7,00E+00
GWP-fossil	kg CO2 eq	5,71E+00	2,63E+00	1,08E+00	9,42E+00	2,39E+00	1,57E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,62E-01	0,00E+00	2,30E-01	-6,99E+00
GWP-biogenic	kg CO2 eq	-3,50E+01	1,60E-03	1,06E+01	-2,44E+01	8,20E-04	3,87E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,54E-06	0,00E+00	3,50E+01	-7,26E-03
GWP-luluc	kg CO2 eq	4,80E-02	8,92E-04	7,97E-04	4,97E-02	9,03E-04	8,85E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,47E-05	0,00E+00	5,89E-05	-6,89E-03
ODP	kg CFC11 eq	1,46E-07	5,28E-08	4,43E-08	2,43E-07	4,23E-08	3,98E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,38E-09	0,00E+00	2,70E-09	-6,50E-08
AP	mol H+ eq	4,68E-02	1,18E-02	5,45E-03	6,41E-02	1,51E-02	2,42E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,52E-04	0,00E+00	2,36E-03	-2,62E-02
EP-fresh water	kg PO4 eq	2,92E-03	1,81E-04	3,55E-04	3,46E-03	1,68E-04	3,00E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,27E-05	0,00E+00	1,03E-04	-2,21E-03
EP-marine	kg N eq	1,77E-02	4,66E-03	1,57E-03	2,39E-02	5,14E-03	1,36E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,82E-04	0,00E+00	1,51E-03	-5,59E-03
EP-terrestrial	mol N eq	1,85E-01	5,06E-02	1,42E-02	2,49E-01	5,61E-02	1,18E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,97E-03	0,00E+00	1,20E-02	-5,64E-02
POCP	kg NMVOC eq	6,42E-02	1,82E-02	5,27E-03	8,77E-02	1,87E-02	3,19E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,12E-04	0,00E+00	3,05E-03	-1,96E-02
ADP-minerals & metals	kg Sb eq	3,02E-05	8,17E-06	2,91E-05	6,74E-05	7,08E-06	6,33E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,40E-07	0,00E+00	4,01E-07	-5,65E-06
ADP-fossil	MJ, net calorific value	1,19E+02	3,77E+01	1,81E+01	1,75E+02	3,41E+01	3,42E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,38E+00	0,00E+00	2,31E+00	-1,10E+02
WDP	m3 world eq. Deprived	7,39E+00	2,34E-01	6,33E-01	8,26E+00	2,02E-01	-2,87E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,50E-02	0,00E+00	5,72E-03	-1,46E+00

GWP-total = Global Warming Potential total

GWP-fossil = Global Warming Potential fossil fuels

GWP-biogenic = Global Warming Potential biogenic total

GWP-luluc = Global Warming Potential land use and land use change

ODP = Depletion potential of the stratospheric ozone layer

AP = Acidification Potential, Accumulated Exceedence

EP-freshwater = Eutrophication Potential, fraction of nutrients reaching freshwater end compartment

EP-marine = Eutrophication Potential, fraction of nutrients reaching marine end compartment

EP-terrestrial = Eutrophication Potential, Accumulated Exceedence

POCP = Formation potential of tropospheric ozone photochemical oxidants

ADP-minerals & metals = Abiotic Depletion Potential for non-fossil resources [1]

ADP-fossil = Abiotic Depletion for fossil resources potential [1]

WDP = Water (user) deprivation potential, deprivation-weighted water consumption [1]

Disclaimer [1]:

- 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 experience with the indicator.

ENVIRONMENTAL IMPACT per functional unit or declared unit (additional indicators A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1,55E-06	2,09E-07	5,25E-08	1,81E-06	1,81E-07	1,82E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,25E-08	0,00E+00	2,60E-08	-2,19E-07
IRP	kBq U235 eq.	1,41E+00	4,98E-02	5,33E-02	1,51E+00	3,73E-02	3,29E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,08E-03	0,00E+00	2,45E-03	-6,91E-01
ETP-fw	CTUe	3,34E+01	9,79E+00	8,31E+00	5,15E+01	8,62E+00	4,06E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,66E-01	0,00E+00	2,70E+00	-1,47E+01
HTP-c	CTUh	6,61E-08	1,78E-08	8,38E-09	9,23E-08	1,44E-08	2,61E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,08E-10	0,00E+00	4,11E-09	-8,81E-09
HTP-nc	CTUh	1,07E-07	2,50E-08	3,79E-08	1,70E-07	2,16E-08	2,10E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,40E-09	0,00E+00	2,88E-08	-3,34E-08
SQP	-	3,74E+03	2,81E+01	4,62E+00	3,77E+03	2,39E+01	2,54E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,36E+00	0,00E+00	9,90E-01	-1,05E+01

- PM = Potential incidence of disease due to PM emissions
- IRP = Potential Human exposure efficiency relative to U235 [1]
- ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]
- HTP-c = Potential Comparative Toxic Unit for humans [2]
- HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]
- SQP = Potential soil quality index [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.

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 experience with the indicator.

OUTPUT FLOWS AND WASTE CATEGORIES per functional unit or declared unit (A1 en A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	2,03E-01	3,67E-02	8,32E-02	3,23E-01	3,58E-02	1,12E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,74E-03	0,00E+00	7,94E-02	-2,22E-01
NHWD	kg	0,00E+00	0,00E+00	7,64E+00	7,64E+00	0,00E+00	6,06E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,50E+01	0,00E+00
RWD	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,42E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,48E+01	0,00E+00
ETE	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,67E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,99E+01	0,00E+00

HWD = Hazardous Waste Disposed
NHWD = Non Hazardous Waste Disposed
RWD = Radioactive Waste Disposed
CRU = Components for reuse
MFR = Materials for recycling
MER = Materials for energy recovery
EEE = Exported Electrical Energy
ETE = Exported Thermal Energy

RESOURCE USE per functional unit or declared unit (A1 and A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	7,38E+02	6,51E-01	1,95E+01	7,58E+02	5,19E-01	5,91E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,09E-02	0,00E+00	5,18E-02	-7,90E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	7,38E+02	6,51E-01	1,95E+01	7,58E+02	5,19E-01	5,91E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,09E-02	0,00E+00	5,18E-02	-7,90E+00
PENRE	MJ	1,19E+02	3,77E+01	1,81E+01	1,75E+02	3,41E+01	3,42E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,38E+00	0,00E+00	2,31E+00	-1,10E+02
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,19E+02	3,77E+01	1,81E+01	1,75E+02	3,41E+01	3,42E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,38E+00	0,00E+00	2,31E+00	-1,10E+02
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NSRF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	1,72E-01	5,44E-03	1,47E-02	1,92E-01	4,70E-03	-6,69E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,50E-04	0,00E+00	1,33E-04	-3,39E-02

PERE	=	Use of renewable energy excluding renewable primary energy resources
PERM	=	Use of renewable energy resources used as raw materials
PERT	=	Total use of renewable primary energy resources
PENRE	=	Use of non-renewable primary energy resources excluding non-renewable 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 materials
RSF	=	Use of renewable secondary fuels
NSRF	=	Use of non-renewable secondary fuels
FW	=	Use of net fresh water

BIOGENIC CARBON CONTENT per functional unit or declared unit (A1 and A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
BBCpr	kg C	9,65E+00	0,00E+00	0,00E+00	9,65E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
BCCpa	kg C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

BCCpr	=	Biogenic carbon content in product
BCCpa	=	Biogenic carbon content in packaging

CALCULATION RULES (PART 1)

Data quality requirements follow EN15804+A2:2019. All chosen datasets are complete according to the system boundary and are as current as possible. Foreground data is from a reference period the year 2023, and processes used in the background modelling are taken from Ecoinvent 3.10. This is a widely used database which is consistent with the foreground modelling system limits and allocation procedures. The technological and geographical coverage reflects the physical reality as far as possible, considering the location, technology mix and representativeness, input materials, and input energies for the region.

Data gaps (i.e. transport data) were covered with data generic values for transport as described in Annex II of the PEF methodology published by the European Commission (2021). Further data gaps (i.e. end-of-life scenarios) were covered by fixed values for end-of life processing scenarios, developed by Nationale Milieu Database (NMD) version 2024.

There are wooden pallets used as packaging for the product but these are made from scrap wood materials and reused multiple times, so therefore not included in the model. No other cut-offs were intentionally applied to inputs and outputs within the system boundaries of the models. All known energy and material flows within the system boundaries are considered.

To allocate the emissions and inputs to the manufactured products, the decision-hierarchy in ISO 14044 is used (ISO 2006). It is not possible to sub-divide the site data into a more detailed level or find physical causalities between inputs and outputs. Therefore, allocation is applied based on mass considering an annual production of wooden flooring. Due to the production process of the flooring, the energy and utility requirements are not expected to change per 1 square meter of floor plank produced.

SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION (PART 1)

The product stage is reported in life cycle stages A1-A3. This life cycle stage includes the extraction and processing of raw materials for the product and the packaging, their transportation to the production site by road, and the manufacturing process. The manufacturing stage (A3) includes all processes related to assembling the product, including energy consumption and waste treatment, for which specific data is available. The electricity used in the manufacturing process is self-generated solar electricity purchased wind energy from Engie, thus modelled with a Dutch electricity production from wind. Sulfur hexafluoride and transmission losses have been included in the calculations. Natural gas is used to heat the facilities and modelled with a market for heat dataset.

The construction process stage (A4-A5) includes transport of the product to the point of sale (PoS), as well as the treatment of packaging waste after installation. No additional inputs are required for the installation of the product since it is done manually and no energy consumption is required. The use stage consists of modules B1-B7. There are no impacts related to the use of the floor and impacts related to the cleaning of the floor are considered outside of the system boundary. Therefore, no inputs or outputs are modelled in this module. No further inputs or outputs are related to the use stage, as there are no emissions from the products.

The End-of-Life stage is reached when floorings are discarded at the end of the reference service life. This stage consists of module C1-C4. The disassembly and demolition of the floorings are done manually. Transportation distances to the disposal facility were retrieved Annex II of the PEF methodology. The end-of-life scenario of the wooden planks is assumed to incineration and landfill, based on the latest version of the fixed values for end-of life processing scenarios, developed by Nationale Milieu Database (version 2024). Due to the release of biogenic carbon as a result of incinerating the floorings at the end-of-life, the result in module C4 was adjusted based on the biogenic uptake in module A1.



DECLARATION OF SVHC

None of the substances contained in the product are listed in the "Candidate List of Substances of Very High Concern for authorisation", or they do not exceed the threshold with the European Chemicals Agency.

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REMARKS

There are no further remarks

