

ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025 and EN 15804

theuma
doors & frames

DOOR, HPL, FLUSH, CHIPBOARD - DEUR, HPL, STOMP, SP

COMPANY INFORMATION / DECLARATION OWNER

Manufacturer: Theuma
Production Location: Theuma Bekkevoort
Address: Zandstraat 10
3460 Bekkevoort
E-mail:
Website: www.theuma.com

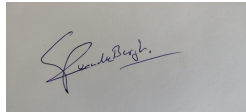
EPD INFORMATION

Calculation number: EPD-NIBE-20210128-17153
Date of issue: 03-02-2021
End of validity: 03-02-2026
Version NIBE's EPD Application: v2.0
Version database: v3.00 (2021-01-13)
PCR: NMD Determination method
Environmental performance
Construction works v1.0 July 2020 |
EN15804+A1

VERIFICATION OF THE DECLARATION

CEN standard EN 15804:2012 serves as the core PCR
Independent verification of the declaration, according to EN ISO
14025:2010. Internal External

ok



Third party verifier: Fred van der Burgh, Agrodome

DECLARED UNIT

m² (Interior door)

An interior door that meets the requirements of the building code. The quantities are calculated back to 1 m². Mounting materials, hinges and locks are not included. The door has a service life of 50 years.

SCOPE OF DECLARATION

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	MND	MND	MND	MND	X	X	X	X	X

(X = included, MND = module not declared)

PRODUCT DESCRIPTION

Functional unit: Wooden door for indoor use with a chipboard filling and finished with a HPL layer. The door meets the requirements of the building code. Fixing materials, hinges and locks are not included. The quantities are calculated back to 1 m².

It is a flush door, meaning the door panel lies completely in the door frame.

The door has an Epicea wooden frame and chipboard filling and is finished with a HPL layer in the factory.

The door has a service life of 50 years.

CUAS code 32.3.

DESCRIPTION OF THE MANUFACTURING PROCESS

Raw materials enter the factory in Bekkevoort.

The raw materials are cut to size, most of them have a standard size and do not need to be sawn. The raw materials are prepared in the right order from the predetermined planning.

The wooden frame, the chipboard filling and the glued cover panels go to the press where the bodies are hot pressed.

A wooden lipping is glued against the body before or after the application of the HPL layer.

The HPL layer is applied to the body during a second pressing.

The door is sawn to the correct width and length.

Then the door is provided with the necessary drilling and milling.

In the Theuma factory there is a wood furnace in which the residual wood and wood dust is burned and of which the thermal heat is used for the pressing and heating of the factory.

The calculation is based on data collected from 2019. An average of the annual production is taken. This also applies for the energy consumption.

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RESULTS

Impact category	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	4.54E-5	2.41E-6	9.65E-6	1.19E-6	1.81E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.17E-6	3.96E-7	1.46E-8	-1.89E-6	6.02E-5
ADPF	Kg Sb	9.94E-2	6.17E-3	6.59E-3	3.13E-3	3.59E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.08E-3	1.07E-3	1.37E-4	-4.80E-3	1.18E-1
GWP	Kg CO2 Equiv.	1.03E+1	8.20E-1	1.04E+0	4.18E-1	4.29E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.11E-1	1.22E+0	7.92E-2	-8.74E-1	1.38E+1
ODP	Kg CFC-11 Equiv.	1.31E-6	1.54E-7	9.73E-8	7.80E-8	5.24E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.67E-8	2.27E-8	3.00E-9	-2.89E-7	1.51E-6
POCP	Kg Ethene Equiv.	1.73E-2	4.56E-4	1.91E-3	2.48E-4	6.31E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.44E-4	8.13E-4	2.51E-5	-3.67E-3	1.80E-2
AP	Kg SO2 Equiv.	5.64E-2	2.24E-3	3.49E-2	1.81E-3	3.05E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.78E-3	4.31E-3	7.61E-5	-2.34E-2	8.12E-2
EP	Kg PO43- Equiv.	1.01E-2	3.82E-4	7.77E-3	3.65E-4	6.03E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.59E-4	1.14E-3	3.04E-5	-7.64E-3	1.31E-2
HTP	kg 1.4 DB	5.34E+0	3.39E-1	6.90E-1	1.71E-1	2.18E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.68E-1	5.43E-1	6.68E-3	-	5.47E+0
FAETP	kg 1.4 DB	2.18E-1	9.17E-3	2.07E-2	4.98E-3	8.50E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.89E-3	2.54E-2	1.31E-4	-4.45E-2	2.47E-1
MAETP	kg 1.4 DB	4.66E+2	3.54E+1	4.84E+1	1.77E+1	1.83E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.74E+1	2.40E+1	4.71E-1	-	5.83E+2
TETP	kg 1.4 DB	3.00E-2	1.16E-3	3.48E-2	5.91E-4	2.04E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.81E-4	7.85E-4	2.10E-5	-1.37E-2	5.63E-2
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	1.87E+2	1.44E-1	3.36E+1	6.84E-2	6.64E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.73E-2	7.49E-2	4.67E-3	-	-
PERM	MJ	9.76E+1	0.00E+0	4.88E+0	0.00E+0	3.08E+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	1.06E+2
PERT	MJ	2.85E+2	1.44E-1	3.85E+1	6.84E-2	9.73E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.73E-2	7.49E-2	4.67E-3	-	2.38E+1
PENRE	MJ	2.71E+1	1.37E+1	4.21E+0	6.94E+0	1.84E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.82E+0	2.16E+0	3.02E-1	-	5.25E+1
PENRM	MJ	1.94E+2	0.00E+0	9.72E+0	0.00E+0	6.12E+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	2.10E+2
PENRT	MJ	2.39E+2	1.37E+1	1.51E+1	6.94E+0	8.52E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.82E+0	2.16E+0	3.02E-1	-	2.82E+2
SM	Kg	4.33E-5	0.00E+0	2.17E-6	0.00E+0	1.36E-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	4.68E-5
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	1.83E+0	2.50E-3	9.31E-2	1.23E-3	5.81E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.21E-3	9.33E-3	2.92E-4	-3.55E-3	1.99E+0
HWD	Kg	4.54E-1	8.34E-6	2.27E-2	4.15E-6	1.43E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.08E-6	1.34E-5	2.26E-7	-5.97E-4	4.90E-1
NHWD	Kg	1.44E+0	8.25E-1	2.07E-1	3.97E-1	1.34E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.91E-1	1.71E-1	1.05E+0	-2.61E-1	4.35E+0
RWD	Kg	6.31E-4	8.70E-5	4.41E-5	4.39E-5	2.57E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.32E-5	6.36E-6	1.71E-6	-6.16E-5	8.21E-4
CRU	Kg	0.00E+0	0.00E+0	2.46E-6	0.00E+0	1.55E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.92E-5	0.00E+0	0.00E+0	5.32E-5
MFR	Kg	0.00E+0	0.00E+0	1.78E-5	0.00E+0	1.12E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.57E-4	0.00E+0	0.00E+0	3.86E-4
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EE	MJ	0.00E+0	0.00E+0	1.17E-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	0.00E+0	1.40E+2	1.40E+2
EET	MJ	0.00E+0	0.00E+0	7.42E-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	0.00E+0	8.86E+1	8.86E+1
EEE	MJ	0.00E+0	0.00E+0	4.31E-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	0.00E+0	5.14E+1	5.14E+1
SP	s€	s€ 1,42	s€ 0,09	s€ 0,34	s€ 0,05	s€ 0,06	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,05	s€ 0,14	s€ 0,01	s€ -0,40	s€ 1,75

Impact categories: ADPE=Depletion of abiotic resources-elements | ADPF=Depletion of abiotic resources-fossil fuels | GWP=Global warming | ODP=Ozone layer depletion | POCP=Photochemical oxidants creation | AP=Acidification of soil and water | EP=Eutrophication | HTP=Human toxicity | FAETP=Ecotoxicity, fresh water | MAETP=Ecotoxicity, marine water (MAETP) | TETP=Ecotoxicity, terrestrial

Parameters: PERE=renewable primary energy ex. raw materials | PERM=renewable primary energy used as raw materials | PERT=renewable primary energy total | PENRE=non-renewable primary energy ex. raw materials | PENRM=non-renewable primary energy used as raw materials | PENRT=non-renewable primary energy total | SM=use of secondary material | RSF=use of renewable secondary fuels | NRSF=use of non-renewable secondary fuels | FW=use of net fresh water | HWD=hazardous waste disposed | NHWD=non hazardous waste disposed | RWD=radioactive waste disposed | CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EE=Exported energy | EET=Exported Energy Thermic | EEE=Exported Energy Electric

ADDITIONAL INFORMATION

Allocation

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