

# ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025 and EN 15804

## STEEL DOOR FRAME MP1 - METALEN KOZIJN MP1

### COMPANY INFORMATION / DECLARATION OWNER

**Manufacturer:** Theuma  
**Production Location:** Theuma Nijkerk  
**Address:** Sluiswachter 10  
3861 SN Nijkerk  
**E-mail:**  
**Website:** www.theuma.com

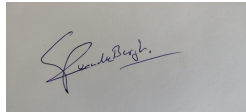
### EPD INFORMATION

**Calculation number:** EPD-NIBE-20210128-17147  
**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

#### m<sup>2</sup> (Interior door frame)

A steel door frame for indoor use that meets the requirements of the building code. Fixing materials, hinges and locks are not included. The quantities are calculated back to 1 m<sup>2</sup>. The door frame 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:** A steel door frame for indoor use that meets the requirements of the buildings code. Fixing materials, hinges and locks are not included. The quantities are calculated back to 1 m<sup>2</sup>.

The door frame has a service life of 50 years.

CUAS code 32.3.

### DESCRIPTION OF THE MANUFACTURING PROCESS

The steel is supplied in coils or sheets.

From this the posts and sills are formed. These are cut, bent, punched and welded in the right profile and provided with the necessary parts (locking claws, mitre plates, mitre brackets and laps, etc.).

The assembled parts are powder coated using an Electronic Powder Coating (EPC) process.

The finished products are then packed as a set.

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	6.87E-6	3.47E-7	1.05E-5	2.67E-7	6.74E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.36E-8	2.01E-6	1.40E-9	2.11E-6	2.29E-5
ADPF	Kg Sb	8.37E-2	9.11E-4	2.22E-2	7.01E-4	3.61E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.46E-4	7.63E-4	1.67E-5	-4.35E-2	6.86E-2
GWP	Kg CO2 Equiv.	1.38E+1	1.22E-1	2.95E+0	9.37E-2	8.47E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.29E-2	2.89E-1	1.24E-3	-	1.03E+1
ODP	Kg CFC-11 Equiv.	4.62E-7	2.27E-8	2.24E-7	1.75E-8	3.22E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.14E-9	1.39E-8	4.07E-10	-1.24E-7	6.56E-7
POCP	Kg Ethene Equiv.	6.13E-3	7.22E-5	1.53E-3	5.56E-5	2.69E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.95E-5	9.14E-5	1.30E-6	-3.86E-3	4.31E-3
AP	Kg SO2 Equiv.	3.39E-2	5.27E-4	4.23E-2	4.06E-4	2.54E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.42E-4	1.01E-3	9.07E-6	-1.56E-2	6.52E-2
EP	Kg PO43- Equiv.	5.16E-3	1.06E-4	9.07E-3	8.19E-5	4.70E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.87E-5	2.19E-4	1.71E-6	-1.89E-3	1.33E-2
HTP	kg 1.4 DB	1.05E+1	4.99E-2	2.24E+0	3.84E-2	4.17E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.35E-2	1.16E-1	5.01E-4	-	1.24E+1
FAETP	kg 1.4 DB	9.55E-2	1.45E-3	2.76E-2	1.12E-3	5.10E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.92E-4	2.06E-3	1.35E-5	-8.96E-3	1.24E-1
MAETP	kg 1.4 DB	2.67E+2	5.17E+0	7.61E+1	3.98E+0	1.44E+1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.40E+0	1.12E+1	4.38E-2	-	3.52E+2
TETP	kg 1.4 DB	2.62E-2	1.72E-4	5.96E-2	1.32E-4	2.16E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.65E-5	4.06E-4	1.48E-6	9.36E-2	1.82E-1
<b>Parameter</b>	<b>Unit</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>A4</b>	<b>A5</b>	<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>C1</b>	<b>C2</b>	<b>C3</b>	<b>C4</b>	<b>D</b>	<b>Total</b>
PERE	MJ	6.09E+0	1.99E-2	2.97E+1	1.53E-2	1.10E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.38E-3	2.33E-1	8.93E-4	-3.49E-3	3.72E+1
PERM	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
PERT	MJ	6.09E+0	1.99E-2	2.97E+1	1.53E-2	1.10E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.38E-3	2.33E-1	8.93E-4	-3.49E-3	3.72E+1
PENRE	MJ	1.50E+2	2.02E+0	5.33E+1	1.56E+0	6.55E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.46E-1	1.71E+0	3.72E-2	-	2.12E+2
PENRM	MJ	7.37E-1	0.00E+0	4.69E+0	0.00E+0	1.63E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-1.58E-1	5.43E+0
PENRT	MJ	1.50E+2	2.02E+0	5.79E+1	1.56E+0	6.71E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.46E-1	1.71E+0	3.72E-2	-	2.17E+2
SM	Kg	4.17E-1	0.00E+0	7.51E-2	0.00E+0	1.48E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.07E-1
RSP	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	9.80E-2	3.59E-4	2.46E-2	2.76E-4	4.15E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.70E-5	5.22E-4	3.77E-5	-1.52E-4	1.28E-1
HWD	Kg	1.20E+0	1.21E-6	2.17E-1	9.31E-7	4.26E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.27E-7	2.17E-6	2.48E-8	-3.06E-7	1.46E+0
NHWD	Kg	1.15E+0	1.16E-1	4.18E-1	8.91E-2	8.23E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.13E-2	4.91E-2	2.30E-1	4.42E-4	2.17E+0
RWD	Kg	2.39E-4	1.28E-5	7.38E-5	9.85E-6	1.15E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.46E-6	9.25E-6	2.29E-7	-1.13E-6	3.59E-4
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	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
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	6.46E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.32E+0	2.39E+0
EET	MJ	0.00E+0	0.00E+0	4.09E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.47E+0	1.51E+0
EEE	MJ	0.00E+0	0.00E+0	2.37E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.54E-1	8.78E-1
<b>SP</b>	<b>s€</b>	<b>s€ 1,88</b>	<b>s€ 0,01</b>	<b>s€ 0,62</b>	<b>s€ 0,01</b>	<b>s€ 0,10</b>	<b>s€ 0,00</b>	<b>s€ 0,00</b>	<b>s€ 0,00</b>	<b>s€ 0,00</b>	<b>s€ 0,00</b>	<b>s€ 0,03</b>	<b>s€ 0,00</b>	<b>s€ -0,58</b>	<b>s€ 2,07</b>

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 | RSP=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

Environmental profile	Explanation of used allocation method
Steel coil   cold rolled, galvanised (without zinc coating) [Steel federation NL]	Allocation between steel products and GGBS

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Steel coil | cold rolled, galvanised (without zinc coating) [Steel federation NL]

Allocation between steel products and GGBS