

This appendix refers to the EPD MD-23007-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

LCA results

ENVIRONMENTAL IMPACTS PER 1 TON OF USED BRICKS									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	2.3E+01	1.94E-02	3.90E-01	0.00E+00	5.07E+00	2.85E-01	2.64E-02	-5.39E+00
ODP	[kg CFC11-eq.]	2.89E-06	3.67E-09	2.81E-08	0.00E+00	9.48E-07	1.27E-08	4.24E-09	-5.08E-08
AP	[kg SO ₂ -eq.]	1.03E-01	7.09E-05	1.47E-03	0.00E+00	1.83E-02	1.29E-03	2.45E-04	-3.57E-02
EP	[kg PO ₄ ³⁻ -eq.]	3.61E-02	1.39E-05	1.07E-03	0.00E+00	3.60E-03	9.54E-04	4.49E-05	-1.69E-02
POCP	[kg ethene-eq.]	4.45E-03	2.49E-06	1.38E-04	0.00E+00	6.56E-04	5.80E-05	7.79E-06	-2.42E-03
ADPE	[kg Sb-eq.]	8.35E-05	4.87E-08	1.34E-06	0.00E+00	1.56E-05	7.90E-07	1.38E-08	-6.98E-05
ADPF	[MJ]	3.41E+02	2.97E-01	4.12E+00	0.00E+00	7.66E+01	3.22E+00	3.53E-01	-5.27E+01
Caption		GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources							
		The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.							

RESOURCE USE PER 1 TON OF USED BRICKS									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	9.67E+01	4.72E+00	7.26E+01	0.00E+00	1.06E+00	1.05E+00	2.93E-03	-1.14E+01
PERM	[MJ]	9.92E+01	0.00E+00	-7.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	1.96E+02	4.72E+00	5.67E-01	0.00E+00	1.06E+00	1.05E+00	2.93E-03	-1.14E+01
PENRE	[MJ]	3.54E+02	3.16E+02	2.74E+01	0.00E+00	7.82E+01	6.02E+00	3.56E-01	-1.21E+02
PENRM	[MJ]	2.29E+01	0.00E+00	-2.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	3.77E+02	3.16E+02	5.36E+00	0.00E+00	7.82E+01	6.02E+00	3.56E-01	-1.21E+02
SM	[kg]	4.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	[MJ]	2.14E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	[MJ]	3.25E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	4.58E-01	4.24E-02	4.61E-03	0.00E+00	8.93E-03	5.06E-03	2.14E-05	-3.73E-01
Caption		PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water							
		The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.							



WASTE CATEGORIES AND OUTPUT FLOWS PER 1 TON OF USED BRICKS									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	6.43E-04	7.42E-04	9.85E-06	0.00E+00	1.99E-04	3.10E-06	9.41E-07	-2.50E-04
NHWD	[kg]	1.24E+01	2.62E+01	1.47E-01	0.00E+00	5.25E+00	2.23E-02	9.99E+00	-1.99E+00
RWD	[kg]	1.99E-03	2.05E-03	2.90E-05	0.00E+00	5.29E-04	4.36E-05	2.37E-06	-6.17E-04

CRU	[kg]	0.00E+00	00E+00	00E+00	00E+00	00E+00	00E+00	00E+00	00E+00
MFR	[kg]	2.16E-02	00E+00	3.75E+00	00E+00	00E+00	9.90E+02	00E+00	00E+00
MER	[kg]	0.00E+00	00E+00	2.00E+00	00E+00	00E+00	00E+00	00E+00	00E+00
EEE	[MJ]	0.00E+00	00E+00	4.79E+00	00E+00	00E+00	00E+00	00E+00	00E+00
EET	[MJ]	0.00E+00	00E+00	2.04E+01	00E+00	00E+00	00E+00	00E+00	00E+00
Caption		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; EEE = Exported electrical energy; EET = Exported thermal energy							
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Checked and approved by

Third party verifier of MD-23007-EN

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