

This appendix refers to the EPD MD-25012-EN. 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.

Window brick

ENVIRONMENTAL IMPACTS PER TONNES Window brick										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	4,15E+01	5,33E+00	9,49E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,48E+00
OPD	[kg CFC 11 eq.]	1,14E-06	8,86E-08	1,30E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-7,06E-08
AP	[kg SO ₂ eq.]	3,47E-01	1,09E-02	3,02E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,33E-02
EP	[kg SO ₄ ³⁻ eq.]	3,48E-02	2,70E-03	7,21E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-1,01E-02
POCP	[kg ethene-eq.]	1,05E-02	7,88E-04	1,28E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,30E-03
ADPE	[kg Sb-eq.]	1,51E-04	1,49E-05	1,76E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,73E-05
ADPF	[MJ]	3,49E+02	7,85E+01	1,10E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,79E+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, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES Window brick										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,65E+02	1,27E+00	3,28E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-4,72E+01
PERM	[MJ]	5,70E+01	0,00E+00	-5,70E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,22E+02	1,27E+00	-5,67E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-4,72E+01
PENRE	[MJ]	3,33E+02	8,01E+01	1,14E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,65E+01
PENRM	[MJ]	2,88E+01	0,00E+00	-2,88E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,62E+02	8,01E+01	-1,73E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,65E+01
SM	[kg]	2,99E+01	3,46E-02	5,16E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,31E-01
RSF	[MJ]	1,55E+00	4,36E-04	6,84E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,31E-04
NRSF	[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
FW	[m ³]	1,17E-01	1,20E-02	8,05E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,90E-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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES Window brick										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	9,93E-01	1,16E-01	4,71E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-5,23E-01
NHWD	[kg]	5,03E+01	2,33E+00	3,39E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-1,08E+01
RWD	[kg]	1,83E-04	2,41E-05	6,60E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,34E-04

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
MFR	[kg]	2,00E+01	6,08E-04	1,45E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-7,10E-03
MER	[kg]	1,58E-01	3,50E-06	3,40E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,43E-06
EE	[MJ]	1,40E-01	1,20E-02	1,39E+01	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,80E-01
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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

Glazed brick

ENVIRONMENTAL IMPACTS PER TONNES Glazed brick										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	7,31E+01	5,28E+00	7,89E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,34E+00
OPD	[kg CFC 11 eq.]	1,71E-06	8,78E-08	1,25E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-6,71E-08
AP	[kg SO ₂ eq.]	5,88E-01	1,08E-02	2,86E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,27E-02
EP	[kg SO ₄ ³⁻ eq.]	1,14E-01	2,68E-03	6,66E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,77E-03
POCP	[kg ethene-eq.]	2,28E-02	7,81E-04	1,22E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,27E-03
ADPE	[kg Sb-eq.]	2,66E-03	1,48E-05	1,67E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,65E-05
ADPF	[MJ]	6,63E+02	7,78E+01	1,06E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,64E+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, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES Glazed brick										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	6,38E+03	1,26E+00	2,87E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-4,38E+01
PERM	[MJ]	4,36E+01	0,00E+00	-4,36E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	6,42E+03	1,26E+00	-4,34E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-4,38E+01
PENRE	[MJ]	6,80E+02	7,94E+01	1,10E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,45E+01
PENRM	[MJ]	2,88E+01	0,00E+00	-2,88E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	7,08E+02	7,94E+01	-1,78E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,45E+01
SM	[kg]	5,72E+01	3,43E-02	4,82E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,31E-01
RSF	[MJ]	1,09E+00	4,33E-04	6,65E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,27E-04
NRSF	[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
FW	[m ³]	4,99E-01	1,19E-02	7,78E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,84E-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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES Glazed brick										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	8,68E+00	1,15E-01	4,38E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-5,12E-01
NHWD	[kg]	1,62E+02	2,31E+00	3,33E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-1,04E+01
RWD	[kg]	6,17E-04	2,38E-05	5,44E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,27E-04

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
MFR	[kg]	2,15E+01	6,03E-04	1,01E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,74E-03
MER	[kg]	1,59E-01	3,47E-06	2,86E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,38E-06
EE	[MJ]	3,77E-01	1,19E-02	1,23E+01	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,63E-01
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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

Checked and approved by

A handwritten signature in blue ink, appearing to read "Mirko Miseljc".

Mirko Miseljc, LCA Specialists

Third party verifier of MD-25012-EN

A handwritten signature in blue ink, appearing to read "Martha Katrine Sørensen".

Martha Katrine Sørensen

EPD Danmark