

This appendix refers to the EPD MD-23204-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.

ENVIRONMENTAL IMPACTS PER 1 TON STEEL BUILDING PROFILE										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	2,67E+03	8,62E+00	1,67E+02	0,00E+00	4,15E+00	4,23E+00	1,14E+01	7,10E-01	-1,71E+03
ODP	[kg CFC11-eq.]	7,20E-10	1,34E-12	5,73E-11	0,00E+00	6,30E-13	6,58E-13	3,41E-10	2,25E-12	-1,34E-09
AP	[kg SO ₂ -eq.]	5,79E+00	9,29E-03	2,96E-01	0,00E+00	4,04E-02	4,56E-03	1,65E-02	4,24E-03	-3,22E+00
EP	[kg PO ₄ ³⁻ -eq.]	5,53E-01	2,04E-03	2,88E-02	0,00E+00	8,82E-03	1,00E-03	3,66E-03	4,81E-04	-3,40E-01
POCP	[kg ethene-eq.]	1,03E+00	-9,49E-04	5,19E-02	0,00E+00	5,49E-03	-4,66E-04	1,69E-03	3,19E-04	-5,65E-01
ADPE	[kg Sb-eq.]	3,02E-02	5,78E-07	1,51E-03	0,00E+00	2,71E-07	2,84E-07	4,82E-06	3,53E-08	-6,87E-05
ADPF	[MJ]	3,21E+04	1,17E+02	1,63E+03	0,00E+00	5,51E+01	5,76E+01	1,08E+02	9,59E+00	-1,42E+04
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 0,00000000000112.									

RESOURCE USE PER 1 TON STEEL BUILDING PROFILE										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	3,28E+03	8,68E+00	2,02E+02	0,00E+00	4,08E+00	4,26E+00	4,11E+02	1,63E+00	-9,07E+02
PERM	[MJ]	3,41E+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
PERT	[MJ]	3,62E+03	8,68E+00	2,02E+02	0,00E+00	4,08E+00	4,26E+00	4,11E+02	1,63E+00	-9,07E+02
PENRE	[MJ]	3,30E+04	1,20E+02	1,68E+03	0,00E+00	5,62E+01	5,87E+01	1,55E+02	1,00E+01	-1,47E+04
PENRM	[MJ]	9,02E-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
PENRT	[MJ]	3,30E+04	1,20E+02	1,68E+03	0,00E+00	5,62E+01	5,87E+01	1,55E+02	1,00E+01	-1,47E+04
SM	[kg]	1,66E+02	0,00E+00	8,32E+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
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]	-3,83E+00	9,50E-03	-1,02E-01	0,00E+00	4,46E-03	4,66E-03	1,18E-01	2,53E-03	-2,20E+00
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 = Use of net fresh water									
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WASTE CATEGORIES AND OUTPUT FLOWS PER 1 TON STEEL BUILDING PROFILE										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	3,77E-04	3,70E-10	1,88E-05	0,00E+00	1,74E-10	1,82E-10	-1,46E-07	2,18E-10	4,36E-07
NHWD	[kg]	5,99E+01	1,82E-02	6,07E+00	0,00E+00	8,57E-03	8,95E-03	6,23E-01	5,00E+01	-2,18E+01
RWD	[kg]	6,52E-02	2,24E-04	4,28E-03	0,00E+00	1,05E-04	1,10E-04	1,63E-02	1,14E-04	-8,46E-02

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]	8,35E+01	0,00E+00	5,21E+01	0,00E+00	0,00E+00	0,00E+00	9,50E+02	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
EEE	[MJ]	0,00E+00	0,00E+00	4,60E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	9,34E+00	0,00E+00	2,11E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+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



Stefan Emil Danielsson
Third party verifier of MD-23204-EN



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