

This appendix refers to the EPD MD-23201-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 M <sup>2</sup>									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	3.41E-01	4.63E-01	2.94E+00	0.00E+00	2.20E-01	6.32E+00	0.00E+00	-6.30E+00
ODP	[kg CFC11-eq.]	2.07E-08	7.20E-14	1.79E-14	0.00E+00	3.44E-14	1.12E-13	0.00E+00	-3.58E-12
AP	[kg SO <sub>2</sub> -eq.]	3.86E-02	4.85E-04	2.56E-05	0.00E+00	2.45E-04	2.46E-02	0.00E+00	-4.11E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	9.21E-03	1.06E-04	5.14E-06	0.00E+00	5.41E-05	5.36E-03	0.00E+00	-8.57E-04
POCP	[kg ethene-eq.]	3.35E-03	3.95E-05	2.00E-06	0.00E+00	1.89E-05	1.81E-03	0.00E+00	-3.21E-04
ADPE	[kg Sb-eq.]	8.68E-06	3.10E-08	8.37E-10	0.00E+00	1.48E-08	1.00E-09	0.00E+00	-3.79E-08
ADPF	[MJ]	9.78E+01	6.30E+00	1.70E-01	0.00E+00	3.01E+00	1.69E+00	0.00E+00	-4.38E+00
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*10 <sup>2</sup> or 195, while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.0000000000112.								

RESOURCE USE PER M <sup>2</sup>									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	5.79E+00	4.66E-01	1.90E-02	0.00E+00	2.23E-01	5.52E-02	8.02E+00	-3.67E+00
PERM	[MJ]	3.94E+01	0.00E+00	-3.14E+01	0.00E+00	0.00E+00	-8.02E+00	-8.02E+00	0.00E+00
PERT	[MJ]	4.52E+01	4.66E-01	-3.14E+01	0.00E+00	2.23E-01	-7.97E+00	0.00E+00	-3.67E+00
PENRE	[MJ]	1.04E+02	6.42E+00	1.79E-01	0.00E+00	3.07E+00	8.27E-01	1.27E+01	-5.92E+00
PENRM	[MJ]	1.30E+01	0.00E+00	-3.00E-01	0.00E+00	0.00E+00	-1.27E+01	-1.27E+01	0.00E+00
PENRT	[MJ]	1.17E+02	6.42E+00	-1.22E-01	0.00E+00	3.07E+00	-1.18E+01	0.00E+00	-5.92E+00
SM	[kg]	1.68E+00	0.00E+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
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
FW	[m <sup>3</sup> ]	5.80E-01	5.10E-04	3.35E-04	0.00E+00	2.44E-04	5.70E-03	0.00E+00	-2.80E-03
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, e.g., 1.95E+02. This number can also be written as: 1.95*10 <sup>2</sup> or 195, while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER M <sup>2</sup>									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	4.99E-09	1.99E-11	1.14E-12	0.00E+00	9.51E-12	6.11E-10	0.00E+00	-3.21E-10
NHWD	[kg]	3.61E-02	9.79E-04	3.46E-03	0.00E+00	4.68E-04	1.52E-02	0.00E+00	-1.26E-02
RWD	[kg]	4.48E-04	1.20E-05	2.09E-06	0.00E+00	5.75E-06	1.03E-05	0.00E+00	-5.50E-04
CRU	[kg]	2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	0.00E+00	0.00E+00	1.68E+00	0.00E+00	0.00E+00	3.76E+01	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
EEE	[MJ]	0.00E+00	0.00E+00	1.82E-01	0.00E+00	0.00E+00	1.64E+00	0.00E+00	0.00E+00
EET	[MJ]	0.00E+00	0.00E+00	3.28E-01	0.00E+00	0.00E+00	2.92E+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								
	The numbers are declared in scientific notation, e.g., 1.95E+02. This number can also be written as: 1.95*10 <sup>2</sup> or 195, while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.0000000000112.								

Checked and approved by



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Third party verifier of MD-23201-EN



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