

This appendix refers to the EPD MD-24122-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.

Performance+

P+ 400

ENVIRONMENTAL IMPACTS PER 1 piece P+ 400															
Indicator	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	4.39E+02	4.87E+00	1.09E+02	5.52E+02	0.00E+00	1.94E+00	0.00E+00	3.71E+02	0.00E+00	0.00E+00	1.06E+00	7.63E+01	1.97E-01	-1.63E+02
ODP	[kg CFC11-eq.]	1.42E-05	8.40E-13	7.10E-09	1.42E-05	0.00E+00	1.48E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	1.86E-13	4.19E-08	7.39E-13	-1.81E-10
AP	[kg SO ₂ -eq.]	2.23E+00	7.57E-03	1.28E-01	2.37E+00	0.00E+00	2.12E-03	0.00E+00	5.66E-01	0.00E+00	0.00E+00	1.22E-03	1.43E-02	1.01E-03	-3.40E-01
EP	[kg PO ₄ ³⁻ -eq.]	2.17E+00	1.65E-03	3.22E-02	2.21E+00	0.00E+00	5.90E-04	0.00E+00	1.24E-01	0.00E+00	0.00E+00	2.77E-04	2.04E-02	1.08E-04	-3.92E-02
POCP	[kg ethene-eq.]	2.68E-01	-7.48E-05	1.79E-02	2.86E-01	0.00E+00	4.35E-04	0.00E+00	6.51E-02	0.00E+00	0.00E+00	-4.82E-05	2.38E-03	9.02E-05	-4.88E-02
ADPE	[kg Sb-eq.]	8.77E-02	4.21E-07	1.24E-05	8.77E-02	0.00E+00	1.93E-07	0.00E+00	2.03E-04	0.00E+00	0.00E+00	9.33E-08	4.20E-05	1.38E-08	-1.35E-03
ADPF	[MJ]	8.00E+03	6.34E+01	5.50E+02	8.61E+03	0.00E+00	4.30E+01	0.00E+00	3.34E+03	0.00E+00	0.00E+00	1.39E+01	4.11E+01	3.17E+00	-1.74E+03
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														

RESOURCE USE PER 1 piece P+ 400															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
PERE	[MJ]	9.96E+02	5.41E+00	2.06E+03	3.06E+03	0.00E+00	6.67E+00	0.00E+00	1.77E+04	0.00E+00	0.00E+00	1.22E+00	8.71E+00	4.97E-01	-9.26E+02
PERM	[MJ]	8.05E+02	0.00E+00	-7.33E+02	7.16E+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	0.00E+00	0.00E+00
PERT	[MJ]	1.80E+03	5.41E+00	1.33E+03	3.14E+03	0.00E+00	6.67E+00	0.00E+00	1.77E+04	0.00E+00	0.00E+00	1.22E+00	8.71E+00	4.97E-01	-9.26E+02
PENRE	[MJ]	6.75E+03	6.46E+01	1.06E+03	7.87E+03	0.00E+00	4.65E+01	0.00E+00	4.73E+03	0.00E+00	0.00E+00	1.42E+01	1.52E+03	3.35E+00	-1.77E+03
PENRM	[MJ]	1.92E+03	0.00E+00	-4.45E+02	1.47E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.47E+03	0.00E+00	0.00E+00
PENRT	[MJ]	8.67E+03	6.46E+01	6.10E+02	9.34E+03	0.00E+00	4.65E+01	0.00E+00	4.73E+03	0.00E+00	0.00E+00	1.42E+01	4.65E+01	3.35E+00	-1.77E+03
SM	[kg]	5.41E+01	0.00E+00	3.66E+00	5.77E+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	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	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	4.79E+00	6.03E-03	3.53E-01	5.15E+00	0.00E+00	1.27E-02	0.00E+00	6.44E+00	0.00E+00	0.00E+00	1.36E-03	1.06E-02	7.48E-04	-4.70E-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														

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 piece P+ 400															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
HWD	[kg]	8.95E+01	2.51E-09	1.03E-02	8.95E+01	0.00E+00	2.44E-04	0.00E+00	4.30E-05	0.00E+00	0.00E+00	5.42E-10	3.85E-01	7.98E-10	-4.24E-07
NHWD	[kg]	1.17E+00	1.04E-02	2.73E+00	3.91E+00	0.00E+00	2.42E-02	0.00E+00	2.47E+01	0.00E+00	0.00E+00	2.31E-03	1.64E-02	9.71E+00	-3.25E+00
RWD	[kg]	3.65E-02	1.17E-04	2.10E-02	5.76E-02	0.00E+00	1.07E-03	0.00E+00	4.91E-01	0.00E+00	0.00E+00	2.58E-05	2.74E-05	4.55E-05	-5.11E-03
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	0.00E+00	0.00E+00	1.24E+01	1.24E+01	0.00E+00	5.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	[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	0.00E+00	0.00E+00	3.52E+02	0.00E+00	0.00E+00
EET	[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	0.00E+00	0.00E+00	3.69E+02	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														

P+ 600

ENVIRONMENTAL IMPACTS PER 1 piece P+ 600															
Indicator	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	4.85E+02	6.34E+00	1.26E+02	6.18E+02	0.00E+00	2.91E+00	0.00E+00	6.04E+02	0.00E+00	0.00E+00	1.44E+00	1.11E+02	2.43E-01	-2.02E+02
ODP	[kg CFC11-eq.]	1.46E-05	1.10E-12	7.60E-09	1.46E-05	0.00E+00	2.22E-10	0.00E+00	2.22E-08	0.00E+00	0.00E+00	2.52E-13	5.58E-08	9.13E-13	-3.40E-10
AP	[kg SO ₂ -eq.]	2.50E+00	9.27E-03	1.44E-01	2.65E+00	0.00E+00	3.19E-03	0.00E+00	9.21E-01	0.00E+00	0.00E+00	1.66E-03	1.86E-02	1.25E-03	-4.24E-01
EP	[kg PO ₄ ³⁻ -eq.]	2.42E+00	2.04E-03	3.58E-02	2.46E+00	0.00E+00	8.85E-04	0.00E+00	2.02E-01	0.00E+00	0.00E+00	3.75E-04	2.53E-02	1.33E-04	-5.07E-02
POCP	[kg ethene-eq.]	3.10E-01	-1.42E-04	2.00E-02	3.30E-01	0.00E+00	6.53E-04	0.00E+00	1.06E-01	0.00E+00	0.00E+00	-6.53E-05	3.20E-03	1.11E-04	-6.08E-02
ADPE	[kg Sb-eq.]	8.81E-02	5.50E-07	1.37E-05	8.81E-02	0.00E+00	2.90E-07	0.00E+00	3.31E-04	0.00E+00	0.00E+00	1.26E-07	5.25E-05	1.71E-08	-1.35E-03
ADPF	[MJ]	9.06E+03	8.27E+01	6.14E+02	9.75E+03	0.00E+00	6.46E+01	0.00E+00	5.44E+03	0.00E+00	0.00E+00	1.88E+01	5.46E+01	3.92E+00	-2.08E+03
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														

RESOURCE USE PER 1 piece P+ 600															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
PERE	[MJ]	1.36E+03	7.10E+00	2.35E+03	3.72E+03	0.00E+00	1.00E+01	0.00E+00	2.88E+04	0.00E+00	0.00E+00	1.65E+00	1.08E+01	6.14E-01	-1.39E+03
PERM	[MJ]	9.43E+02	0.00E+00	-8.71E+02	7.16E+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	0.00E+00	0.00E+00
PERT	[MJ]	2.31E+03	7.10E+00	1.48E+03	3.80E+03	0.00E+00	1.00E+01	0.00E+00	2.88E+04	0.00E+00	0.00E+00	1.65E+00	1.08E+01	6.14E-01	-1.39E+03
PENRE	[MJ]	7.45E+03	8.43E+01	1.16E+03	8.69E+03	0.00E+00	6.98E+01	0.00E+00	7.70E+03	0.00E+00	0.00E+00	1.92E+01	1.92E+03	4.14E+00	-2.13E+03
PENRM	[MJ]	2.34E+03	0.00E+00	-4.76E+02	1.86E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.86E+03	0.00E+00	0.00E+00
PENRT	[MJ]	9.79E+03	8.43E+01	6.82E+02	1.06E+04	0.00E+00	6.98E+01	0.00E+00	7.70E+03	0.00E+00	0.00E+00	1.92E+01	6.13E+01	4.14E+00	-2.13E+03
SM	[kg]	6.30E+01	0.00E+00	3.66E+00	6.67E+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	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	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	5.47E+00	7.92E-03	4.06E-01	5.89E+00	0.00E+00	1.91E-02	0.00E+00	1.05E+01	0.00E+00	0.00E+00	1.84E-03	3.05E-02	9.23E-04	-6.41E-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														

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 piece P+ 600															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
HWD	[kg]	1.08E+02	3.27E-09	1.06E-02	1.08E+02	0.00E+00	3.66E-04	0.00E+00	7.00E-05	0.00E+00	0.00E+00	7.34E-10	5.27E-01	9.86E-10	-1.13E-06
NHWD	[kg]	1.23E+00	1.36E-02	3.13E+00	4.38E+00	0.00E+00	3.62E-02	0.00E+00	4.03E+01	0.00E+00	0.00E+00	3.13E-03	1.67E-02	1.20E+01	-4.28E+00
RWD	[kg]	3.89E-02	1.53E-04	2.35E-02	6.26E-02	0.00E+00	1.60E-03	0.00E+00	8.00E-01	0.00E+00	0.00E+00	3.49E-05	2.79E-05	5.62E-05	-1.12E-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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	0.00E+00	0.00E+00	1.30E+01	1.30E+01	0.00E+00	8.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	[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	0.00E+00	0.00E+00	5.18E+02	0.00E+00	0.00E+00
EET	[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	0.00E+00	0.00E+00	5.42E+02	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														

P+ 800

ENVIRONMENTAL IMPACTS PER 1 piece P+ 800															
Indicator	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	5.32E+02	7.82E+00	1.45E+02	6.85E+02	0.00E+00	3.88E+00	0.00E+00	1.01E+03	0.00E+00	0.00E+00	1.81E+00	1.45E+02	2.89E-01	-2.41E+02
ODP	[kg CFC11-eq.]	1.51E-05	1.36E-12	8.16E-09	1.51E-05	0.00E+00	2.95E-10	0.00E+00	3.71E-08	0.00E+00	0.00E+00	3.17E-13	6.96E-08	1.09E-12	-4.94E-10
AP	[kg SO ₂ -eq.]	2.76E+00	1.10E-02	1.62E-01	2.93E+00	0.00E+00	4.25E-03	0.00E+00	1.54E+00	0.00E+00	0.00E+00	2.09E-03	2.28E-02	1.49E-03	-5.07E-01
EP	[kg PO ₄ ³⁻ -eq.]	2.67E+00	2.42E-03	3.99E-02	2.71E+00	0.00E+00	1.18E-03	0.00E+00	3.39E-01	0.00E+00	0.00E+00	4.72E-04	3.02E-02	1.58E-04	-6.21E-02
POCP	[kg ethene-eq.]	3.52E-01	-2.09E-04	2.25E-02	3.74E-01	0.00E+00	8.70E-04	0.00E+00	1.77E-01	0.00E+00	0.00E+00	-8.21E-05	4.01E-03	1.33E-04	-7.27E-02
ADPE	[kg Sb-eq.]	8.86E-02	6.80E-07	1.53E-05	8.86E-02	0.00E+00	3.87E-07	0.00E+00	5.54E-04	0.00E+00	0.00E+00	1.59E-07	6.29E-05	2.03E-08	-1.36E-03
ADPF	[MJ]	1.01E+04	1.02E+02	6.91E+02	1.09E+04	0.00E+00	8.61E+01	0.00E+00	9.10E+03	0.00E+00	0.00E+00	2.37E+01	6.79E+01	4.67E+00	-2.43E+03
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														

RESOURCE USE PER 1 piece P+ 800															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
PERE	[MJ]	1.73E+03	8.80E+00	2.68E+03	4.42E+03	0.00E+00	1.33E+01	0.00E+00	4.82E+04	0.00E+00	0.00E+00	2.08E+00	1.30E+01	7.31E-01	-1.84E+03
PERM	[MJ]	1.08E+03	0.00E+00	-1.01E+03	7.16E+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	0.00E+00	0.00E+00
PERT	[MJ]	2.81E+03	8.80E+00	1.67E+03	4.49E+03	0.00E+00	1.33E+01	0.00E+00	4.82E+04	0.00E+00	0.00E+00	2.08E+00	1.30E+01	7.31E-01	-1.84E+03
PENRE	[MJ]	8.15E+03	1.04E+02	1.27E+03	9.52E+03	0.00E+00	9.30E+01	0.00E+00	1.29E+04	0.00E+00	0.00E+00	2.41E+01	2.32E+03	4.92E+00	-2.50E+03
PENRM	[MJ]	2.76E+03	0.00E+00	-5.06E+02	2.25E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.25E+03	0.00E+00	0.00E+00
PENRT	[MJ]	1.09E+04	1.04E+02	7.67E+02	1.18E+04	0.00E+00	9.30E+01	0.00E+00	1.29E+04	0.00E+00	0.00E+00	2.41E+01	7.59E+01	4.92E+00	-2.50E+03
SM	[kg]	7.20E+01	0.00E+00	3.66E+00	7.56E+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	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	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	6.15E+00	9.80E-03	4.64E-01	6.62E+00	0.00E+00	2.55E-02	0.00E+00	1.76E+01	0.00E+00	0.00E+00	2.31E-03	5.02E-02	1.10E-03	-8.10E-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														

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 piece P+ 800															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
HWD	[kg]	1.27E+02	4.02E-09	1.09E-02	1.27E+02	0.00E+00	4.89E-04	0.00E+00	1.17E-04	0.00E+00	0.00E+00	9.23E-10	6.67E-01	1.17E-09	-1.82E-06
NHWD	[kg]	1.29E+00	1.68E-02	3.57E+00	4.88E+00	0.00E+00	4.83E-02	0.00E+00	6.74E+01	0.00E+00	0.00E+00	3.94E-03	1.70E-02	1.43E+01	-5.31E+00
RWD	[kg]	4.14E-02	1.88E-04	2.64E-02	6.80E-02	0.00E+00	2.13E-03	0.00E+00	1.34E+00	0.00E+00	0.00E+00	4.39E-05	2.84E-05	6.69E-05	-1.72E-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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	0.00E+00	0.00E+00	1.37E+01	1.37E+01	0.00E+00	1.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	[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	0.00E+00	0.00E+00	6.81E+02	0.00E+00	0.00E+00
EET	[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	0.00E+00	0.00E+00	7.12E+02	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														

P+ 1000

ENVIRONMENTAL IMPACTS PER 1 piece P+ 1000															
Indicator	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	6.26E+02	9.91E+00	1.86E+02	8.22E+02	0.00E+00	4.86E+00	0.00E+00	1.62E+03	0.00E+00	0.00E+00	2.31E+00	1.83E+02	3.82E-01	-3.11E+02
ODP	[kg CFC11-eq.]	1.59E-05	1.72E-12	9.28E-09	1.59E-05	0.00E+00	3.69E-10	0.00E+00	5.93E-08	0.00E+00	0.00E+00	4.05E-13	8.85E-08	1.44E-12	-5.58E-10
AP	[kg SO ₂ -eq.]	3.23E+00	1.34E-02	1.98E-01	3.44E+00	0.00E+00	5.31E-03	0.00E+00	2.47E+00	0.00E+00	0.00E+00	2.66E-03	2.92E-02	1.96E-03	-6.47E-01
EP	[kg PO ₄ ³⁻ -eq.]	3.03E+00	2.97E-03	4.82E-02	3.08E+00	0.00E+00	1.48E-03	0.00E+00	5.42E-01	0.00E+00	0.00E+00	6.03E-04	3.87E-02	2.09E-04	-7.94E-02
POCP	[kg ethene-eq.]	4.25E-01	-3.04E-04	2.75E-02	4.52E-01	0.00E+00	1.09E-03	0.00E+00	2.84E-01	0.00E+00	0.00E+00	-1.05E-04	5.10E-03	1.75E-04	-9.32E-02
ADPE	[kg Sb-eq.]	8.94E-02	8.63E-07	1.85E-05	8.94E-02	0.00E+00	4.83E-07	0.00E+00	8.87E-04	0.00E+00	0.00E+00	2.03E-07	8.25E-05	2.69E-08	-1.36E-03
ADPF	[MJ]	1.20E+04	1.29E+02	8.44E+02	1.30E+04	0.00E+00	1.08E+02	0.00E+00	1.46E+04	0.00E+00	0.00E+00	3.02E+01	8.63E+01	6.16E+00	-3.03E+03
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														

RESOURCE USE PER 1 piece P+ 1000															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
PERE	[MJ]	2.00E+03	1.12E+01	3.36E+03	5.37E+03	0.00E+00	1.67E+01	0.00E+00	7.72E+04	0.00E+00	0.00E+00	2.65E+00	1.70E+01	9.66E-01	-2.28E+03
PERM	[MJ]	1.39E+03	0.00E+00	-1.32E+03	7.16E+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	0.00E+00	0.00E+00
PERT	[MJ]	3.39E+03	1.12E+01	2.04E+03	5.44E+03	0.00E+00	1.67E+01	0.00E+00	7.72E+04	0.00E+00	0.00E+00	2.65E+00	1.70E+01	9.66E-01	-2.28E+03
PENRE	[MJ]	9.48E+03	1.32E+02	1.50E+03	1.11E+04	0.00E+00	1.16E+02	0.00E+00	2.06E+04	0.00E+00	0.00E+00	3.08E+01	2.95E+03	6.51E+00	-3.11E+03
PENRM	[MJ]	3.42E+03	0.00E+00	-5.62E+02	2.86E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.85E+03	0.00E+00	0.00E+00
PENRT	[MJ]	1.29E+04	1.32E+02	9.37E+02	1.40E+04	0.00E+00	1.16E+02	0.00E+00	2.06E+04	0.00E+00	0.00E+00	3.08E+01	9.68E+01	6.51E+00	-3.11E+03
SM	[kg]	9.82E+01	0.00E+00	3.66E+00	1.02E+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	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	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	7.36E+00	1.25E-02	5.89E-01	7.96E+00	0.00E+00	3.19E-02	0.00E+00	2.81E+01	0.00E+00	0.00E+00	2.95E-03	6.34E-02	1.45E-03	-1.01E+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 = Net use of fresh water														

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 piece P+ 1000															
Parameter	Unit	A1	A2	A3	A1-A3	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
HWD	[kg]	1.65E+02	5.08E-09	1.15E-02	1.65E+02	0.00E+00	6.11E-04	0.00E+00	1.87E-04	0.00E+00	0.00E+00	1.18E-09	8.52E-01	1.55E-09	-2.42E-06
NHWD	[kg]	1.42E+00	2.13E-02	4.51E+00	5.95E+00	0.00E+00	6.04E-02	0.00E+00	1.08E+02	0.00E+00	0.00E+00	5.02E-03	2.22E-02	1.89E+01	-6.78E+00
RWD	[kg]	4.56E-02	2.39E-04	3.24E-02	7.82E-02	0.00E+00	2.67E-03	0.00E+00	2.14E+00	0.00E+00	0.00E+00	5.60E-05	3.71E-05	8.84E-05	-2.02E-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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	0.00E+00	0.00E+00	1.49E+01	1.49E+01	0.00E+00	1.38E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	[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	0.00E+00	0.00E+00	8.54E+02	0.00E+00	0.00E+00
EET	[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	0.00E+00	0.00E+00	8.93E+02	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														

Checked and approved by



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