

This appendix refers to the EPD MD-24063-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 numbers are declared in scientific notation, fx 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. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

**Product group 1: Betonsand**

ENVIRONMENTAL IMPACTS PER ton of Betonsand										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.48E-01	5.90E-01	4.94E-01	1.63E+00	3.03E-01	1.13E+00	2.70E-01	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	7.78E-10	9.13E-10	2.03E-10	1.89E-09	4.65E-14	1.20E-13	4.14E-09	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.19E-04	4.01E-03	8.77E-04	5.71E-03	7.89E-04	4.85E-03	1.11E-03	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.82E-04	9.78E-04	2.01E-04	1.36E-03	1.81E-04	1.23E-03	8.01E-04	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.00E-04	4.24E-04	9.44E-05	6.19E-04	8.96E-05	-2.08E-03	9.34E-05	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	8.16E-08	9.57E-08	1.83E-08	1.96E-07	2.00E-08	7.50E-08	5.84E-07	5.12E-06	-1.78E-07
ADPF	[MJ]	7.46E+00	7.32E+00	5.90E+00	2.07E+01	4.07E+00	1.56E+01	3.68E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Betonsand										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
PERE	[MJ]	5.46E-01	5.34E-01	7.26E-01	1.81E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.46E-01	5.34E-01	7.26E-01	1.81E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	7.61E+00	7.47E+00	7.30E+00	2.24E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	7.61E+00	7.47E+00	7.30E+00	2.24E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	7.39E-04	7.47E-04	8.39E-04	2.32E-03	3.29E-04	1.23E-03	4.55E-03	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Betonsand										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
HWD	[kg]	2.32E-11	3.74E-11	2.07E-10	2.68E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.14E-03	1.13E-03	2.23E-03	4.50E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.40E-05	1.42E-05	4.84E-04	5.12E-04	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-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
MFR	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									

**Product group 2: Stabilgrus**

ENVIRONMENTAL IMPACTS PER ton of Stabilgrus										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.43E-01	5.82E-01	1.66E+00	2.78E+00	3.03E-01	1.13E+00	0.00E+00	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	1.15E-09	1.16E-09	2.71E-10	2.59E-09	4.65E-14	1.20E-13	0.00E+00	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.22E-04	3.96E-03	9.36E-03	1.41E-02	7.89E-04	4.85E-03	0.00E+00	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.83E-04	9.63E-04	2.26E-03	3.41E-03	1.81E-04	1.23E-03	0.00E+00	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.01E-04	4.18E-04	9.86E-04	1.50E-03	8.96E-05	-2.08E-03	0.00E+00	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	1.05E-07	1.01E-07	9.38E-08	3.00E-07	2.00E-08	7.50E-08	0.00E+00	5.12E-06	-1.78E-07
ADPF	[MJ]	7.40E+00	7.21E+00	2.02E+01	3.48E+01	4.07E+00	1.56E+01	0.00E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Stabilgrus										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
PERE	[MJ]	5.40E-01	5.27E-01	1.72E+00	2.79E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.40E-01	5.27E-01	1.72E+00	2.79E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	7.55E+00	7.36E+00	2.16E+01	3.65E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	7.55E+00	7.36E+00	2.16E+01	3.65E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	8.15E-04	7.71E-04	1.94E-03	3.53E-03	3.29E-04	1.23E-03	0.00E+00	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Stabilgrus										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
HWD	[kg]	2.29E-11	3.69E-11	2.43E-10	3.03E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.13E-03	1.11E-03	4.19E-03	6.44E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.39E-05	1.41E-05	4.09E-04	4.37E-04	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-03

CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+02	0.00E+00	0.00E+00
MFR	[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
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									

**Product group 3: Bundsikring**

ENVIRONMENTAL IMPACTS PER ton of Bundsikring										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.45E-01	5.83E-01	3.98E-01	1.53E+00	3.03E-01	1.13E+00	0.00E+00	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	6.44E-10	6.51E-10	1.91E-10	1.49E-09	4.65E-14	1.20E-13	0.00E+00	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.15E-04	3.97E-03	2.16E-03	6.95E-03	7.89E-04	4.85E-03	0.00E+00	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.81E-04	9.66E-04	5.23E-04	1.67E-03	1.81E-04	1.23E-03	0.00E+00	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	9.96E-05	4.19E-04	2.28E-04	7.46E-04	8.96E-05	-2.08E-03	0.00E+00	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	7.45E-08	7.24E-08	2.43E-08	1.71E-07	2.00E-08	7.50E-08	0.00E+00	5.12E-06	-1.78E-07
ADPF	[MJ]	7.39E+00	7.19E+00	4.83E+00	1.94E+01	4.07E+00	1.56E+01	0.00E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Bundsikring										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
PERE	[MJ]	5.42E-01	5.29E-01	4.21E-01	1.49E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.42E-01	5.29E-01	4.21E-01	1.49E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	7.54E+00	7.34E+00	5.21E+00	2.01E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	7.54E+00	7.34E+00	5.21E+00	2.01E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	7.19E-04	6.92E-04	4.79E-04	1.89E-03	3.29E-04	1.23E-03	0.00E+00	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Bundsikring										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
HWD	[kg]	2.31E-11	3.71E-11	6.40E-11	1.24E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.14E-03	1.12E-03	1.05E-03	3.30E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.40E-05	1.42E-05	1.13E-04	1.41E-04	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-03

CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+02	0.00E+00	0.00E+00
MFR	[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
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									

**Product group 4: Støbemix**

ENVIRONMENTAL IMPACTS PER ton of Støbemix										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.71E-01	6.13E-01	1.38E+00	2.57E+00	3.03E-01	1.13E+00	2.70E-01	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	1.35E-09	1.36E-09	2.85E-10	3.00E-09	4.65E-14	1.20E-13	4.14E-09	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.41E-04	4.17E-03	3.45E-03	8.46E-03	7.89E-04	4.85E-03	1.11E-03	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.87E-04	1.02E-03	8.07E-04	2.01E-03	1.81E-04	1.23E-03	8.01E-04	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.04E-04	4.41E-04	3.68E-04	9.14E-04	8.96E-05	-2.08E-03	9.34E-05	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	1.19E-07	1.15E-07	5.15E-08	2.85E-07	2.00E-08	7.50E-08	5.84E-07	5.12E-06	-1.78E-07
ADPF	[MJ]	7.80E+00	7.61E+00	1.66E+01	3.20E+01	4.07E+00	1.56E+01	3.68E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Støbemix										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
PERE	[MJ]	5.68E-01	5.55E-01	1.92E+00	3.05E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.68E-01	5.55E-01	1.92E+00	3.05E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	7.96E+00	7.77E+00	2.00E+01	3.57E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	7.96E+00	7.77E+00	2.00E+01	3.57E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	8.85E-04	8.35E-04	2.21E-03	3.93E-03	3.29E-04	1.23E-03	4.55E-03	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Støbemix										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
HWD	[kg]	2.41E-11	3.89E-11	5.12E-10	5.75E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.19E-03	1.17E-03	5.75E-03	8.11E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.46E-05	1.48E-05	1.17E-03	1.20E-03	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-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
MFR	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									

**Product group 5: Kampesten**

ENVIRONMENTAL IMPACTS PER ton of Kampesten										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.57E-01	5.94E-01	1.01E-03	1.15E+00	3.03E-01	1.13E+00	0.00E+00	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	4.94E-09	4.85E-09	1.09E-10	9.90E-09	4.65E-14	1.20E-13	0.00E+00	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.86E-04	4.02E-03	1.24E-06	4.90E-03	7.89E-04	4.85E-03	0.00E+00	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	2.01E-04	9.82E-04	1.10E-06	1.18E-03	1.81E-04	1.23E-03	0.00E+00	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.16E-04	4.36E-04	8.53E-08	5.52E-04	8.96E-05	-2.08E-03	0.00E+00	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	3.32E-07	3.07E-07	2.02E-09	6.42E-07	2.00E-08	7.50E-08	0.00E+00	5.12E-06	-1.78E-07
ADPF	[MJ]	7.86E+00	7.65E+00	4.80E-03	1.55E+01	4.07E+00	1.56E+01	0.00E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Kampesten										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
PERE	[MJ]	5.50E-01	5.37E-01	2.01E-04	1.09E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.50E-01	5.37E-01	2.01E-04	1.09E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	8.03E+00	7.81E+00	5.08E-03	1.58E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	8.03E+00	7.81E+00	5.08E-03	1.58E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	1.57E-03	1.37E-03	3.57E-06	2.94E-03	3.29E-04	1.23E-03	0.00E+00	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Kampesten										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
HWD	[kg]	2.29E-11	3.69E-11	0.00E+00	5.98E-11	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.13E-03	1.11E-03	0.00E+00	2.24E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.39E-05	1.41E-05	0.00E+00	2.79E-05	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-03

CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+02	0.00E+00	0.00E+00
MFR	[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
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									

**Product group 6: Filtergrus**

ENVIRONMENTAL IMPACTS PER ton of Filtergrus										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.72E-01	6.09E-01	1.34E+00	2.52E+00	3.03E-01	1.13E+00	0.00E+00	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	1.39E-09	1.40E-09	2.88E-10	3.07E-09	4.65E-14	1.20E-13	0.00E+00	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.42E-04	4.14E-03	4.10E-03	9.09E-03	7.89E-04	4.85E-03	0.00E+00	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.87E-04	1.01E-03	9.72E-04	2.17E-03	1.81E-04	1.23E-03	0.00E+00	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.05E-04	4.39E-04	4.36E-04	9.80E-04	8.96E-05	-2.08E-03	0.00E+00	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	1.21E-07	1.16E-07	5.48E-08	2.92E-07	2.00E-08	7.50E-08	0.00E+00	5.12E-06	-1.78E-07
ADPF	[MJ]	7.81E+00	7.57E+00	1.61E+01	3.15E+01	4.07E+00	1.56E+01	0.00E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Filtergrus										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
PERE	[MJ]	5.69E-01	5.52E-01	1.77E+00	2.89E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.69E-01	5.52E-01	1.77E+00	2.89E+00	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	7.97E+00	7.73E+00	1.90E+01	3.47E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	7.97E+00	7.73E+00	1.90E+01	3.47E+01	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	8.93E-04	8.36E-04	2.03E-03	3.76E-03	3.29E-04	1.23E-03	0.00E+00	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Filtergrus										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
HWD	[kg]	2.41E-11	3.86E-11	4.40E-10	5.03E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.19E-03	1.17E-03	5.16E-03	7.52E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.46E-05	1.47E-05	9.85E-04	1.01E-03	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-03

CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+02	0.00E+00	0.00E+00
MFR	[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
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									

**Product group 7: Ler**

ENVIRONMENTAL IMPACTS PER ton of Ler										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.47E-01	9.85E-04	1.01E-03	5.49E-01	3.03E-01	1.13E+00	0.00E+00	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	2.12E-09	5.78E-11	1.09E-10	2.28E-09	4.65E-14	1.20E-13	0.00E+00	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.38E-04	3.87E-06	1.24E-06	8.43E-04	7.89E-04	4.85E-03	0.00E+00	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.87E-04	1.85E-06	1.10E-06	1.90E-04	1.81E-04	1.23E-03	0.00E+00	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.05E-04	1.67E-07	8.53E-08	1.05E-04	8.96E-05	-2.08E-03	0.00E+00	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	1.62E-07	5.75E-09	2.02E-09	1.70E-07	2.00E-08	7.50E-08	0.00E+00	5.12E-06	-1.78E-07
ADPF	[MJ]	7.52E+00	2.68E-02	4.80E-03	7.55E+00	4.07E+00	1.56E+01	0.00E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Ler										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
PERE	[MJ]	5.43E-01	5.76E-04	2.01E-04	5.44E-01	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.43E-01	5.76E-04	2.01E-04	5.44E-01	3.01E-01	1.12E+00	0.00E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	7.68E+00	2.76E-02	5.08E-03	7.71E+00	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	7.68E+00	2.76E-02	5.08E-03	7.71E+00	4.15E+00	1.58E+01	0.00E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	1.00E-03	1.24E-05	3.57E-06	1.02E-03	3.29E-04	1.23E-03	0.00E+00	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Ler										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3**	C4	D
HWD	[kg]	2.29E-11	1.22E-14	0.00E+00	2.30E-11	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.13E-03	4.76E-07	0.00E+00	1.13E-03	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.39E-05	4.27E-09	0.00E+00	1.39E-05	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-03

CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+02	0.00E+00	0.00E+00
MFR	[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
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									



**Product group 8: Stenmel 0-4 mm, Skærver 4-11 mm, and Skærver 11-16 mm**

ENVIRONMENTAL IMPACTS PER ton of Stenmel 0-4 mm, Skærver 4-11 mm, and Skærver 11-16 mm										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.95E-01	6.39E-01	3.36E+00	4.60E+00	3.03E-01	1.13E+00	2.70E-01	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	2.13E-09	2.08E-09	4.12E-10	4.62E-09	4.65E-14	1.20E-13	4.14E-09	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.66E-04	4.34E-03	1.34E-02	1.86E-02	7.89E-04	4.85E-03	1.11E-03	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.93E-04	1.06E-03	3.22E-03	4.47E-03	1.81E-04	1.23E-03	8.01E-04	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.09E-04	4.60E-04	1.42E-03	1.99E-03	8.96E-05	-2.08E-03	9.34E-05	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	1.66E-07	1.55E-07	1.53E-07	4.74E-07	2.00E-08	7.50E-08	5.84E-07	5.12E-06	-1.78E-07
ADPF	[MJ]	8.18E+00	7.98E+00	4.06E+01	5.68E+01	4.07E+00	1.56E+01	3.68E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Stenmel 0-4 mm, Skærver 4-11 mm, and Skærver 11-16 mm										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
PERE	[MJ]	5.91E-01	5.79E-01	4.11E+00	5.28E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.91E-01	5.79E-01	4.11E+00	5.28E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	8.35E+00	8.15E+00	5.08E-03	7.71E+00	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	8.35E+00	8.15E+00	4.63E+01	6.28E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	1.06E-03	9.73E-04	4.68E-03	6.72E-03	3.29E-04	1.23E-03	4.55E-03	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Stenmel 0-4 mm, Skærver 4-11 mm, and Skærver 11-16 mm										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
HWD	[kg]	2.50E-11	4.04E-11	8.86E-10	9.52E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.23E-03	1.22E-03	1.14E-02	1.38E-02	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.51E-05	1.54E-05	1.88E-03	1.91E-03	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-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
MFR	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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									



**Product group 9: Nøddesten, Ærtesten, and Perlesten**

ENVIRONMENTAL IMPACTS PER ton of Nøddesten, Ærtesten, and Perlesten										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	5.94E-01	6.39E-01	2.28E+00	3.51E+00	3.03E-01	1.13E+00	2.70E-01	1.48E+00	-1.53E+00
ODP	[kg CFC11-eq.]	1.95E-09	1.96E-09	3.61E-10	4.27E-09	4.65E-14	1.20E-13	4.14E-09	3.21E-07	-1.21E-11
AP	[kg SO <sub>2</sub> -eq.]	8.63E-04	4.34E-03	6.05E-03	1.13E-02	7.89E-04	4.85E-03	1.11E-03	8.52E-03	-6.10E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	1.92E-04	1.06E-03	1.42E-03	2.67E-03	1.81E-04	1.23E-03	8.01E-04	2.66E-03	-1.09E-03
POCP	[kg ethene-eq.]	1.08E-04	4.61E-04	6.45E-04	1.21E-03	8.96E-05	-2.08E-03	9.34E-05	8.86E-04	-5.39E-04
ADPE	[kg Sb-eq.]	1.55E-07	1.52E-07	8.49E-08	3.92E-07	2.00E-08	7.50E-08	5.84E-07	5.12E-06	-1.78E-07
ADPF	[MJ]	8.16E+00	7.98E+00	2.73E+01	4.35E+01	4.07E+00	1.56E+01	3.68E+00	3.01E+01	-1.98E+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									

RESOURCE USE PER ton of Nøddesten, Ærtesten, and Perlesten										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
PERE	[MJ]	5.91E-01	5.78E-01	3.13E+00	4.30E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PERM	[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
PERT	[MJ]	5.91E-01	5.78E-01	3.13E+00	4.30E+00	3.01E-01	1.12E+00	1.11E+00	6.11E-01	-8.08E+00
PENRE	[MJ]	8.32E+00	8.15E+00	3.28E+01	4.92E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
PENRM	[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
PENRT	[MJ]	8.32E+00	8.15E+00	3.28E+01	4.92E+01	4.15E+00	1.58E+01	6.56E+00	3.10E+01	-2.49E+01
SM	[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
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 <sup>3</sup> ]	1.02E-03	9.58E-04	3.59E-03	5.57E-03	3.29E-04	1.23E-03	4.55E-03	2.41E-02	-7.39E-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 = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER ton of Nøddesten, Ærtesten, and Perlesten										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3*	C4	D
HWD	[kg]	2.50E-11	4.04E-11	8.17E-10	8.82E-10	1.28E-11	5.85E-11	0.00E+00	0.00E+00	6.08E-10
NHWD	[kg]	1.23E-03	1.22E-03	9.28E-03	1.17E-02	6.32E-04	2.28E-03	0.00E+00	1.97E+02	-3.34E+01
RWD	[kg]	1.51E-05	1.54E-05	1.86E-03	1.89E-03	7.76E-06	2.04E-05	0.00E+00	0.00E+00	-1.71E-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
MFR	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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

A handwritten signature in blue ink, appearing to read 'Guangli Du'.

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[Guangli Du]  
Third party verifier of MD-24063-EN

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

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Martha Katrine Sørensen  
EPD Danmark