

This appendix refers to the EPD >MD-21080-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 m2 Highline Carré & Reform Flux WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
GWP	[kg CO ₂ -eq.]	4,83E+00	1,73E-01	1,50E-01	0	2,30E-01	0	0	6,60E-03	3,00E+00	2,30E+00	-1,00E+00	-1,04E-01
ODP	[kg CFC11-eq.]	4,48E-08	4,65E-17	2,92E-10	0	1,40E-09	0	0	1,77E-18	5,84E-09	4,64E-16	-1,14E-14	-3,05E-15
AP	[kg SO ₂ -eq.]	1,04E-02	4,29E-04	9,14E-05	0	4,12E-04	0	0	1,64E-05	1,81E-03	5,63E-04	-1,46E-03	-1,46E-04
EP	[kg PO ₄ ³⁻ -eq.]	2,49E-03	1,04E-04	2,05E-05	0	6,23E-05	0	0	3,95E-06	4,06E-04	3,37E-03	-2,68E-04	-2,90E-05
POCP	[kg ethene-eq.]	8,10E-04	-1,54E-04	4,96E-06	0	4,60E-05	0	0	-5,86E-06	1,05E-04	5,69E-04	-1,57E-04	-1,53E-05
ADPE	[kg Sb-eq.]	2,83E-06	1,57E-08	-4,95E-08	0	8,57E-08	0	0	5,98E-10	-9,91E-07	1,01E-08	-1,71E-07	-3,72E-08
ADPF	[MJ]	8,95E+01	2,33E+00	6,10E-02	0	2,81E+00	0	0	8,87E-02	1,13E+00	2,04E+00	-1,09E+01	-1,06E+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												

RESOURCE USE PER m2 Highline Carré & Reform Flux WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
PERE	[MJ]	3,42E+01	1,35E-01	3,35E-04	0	0	0,00E+00	0	5,16E-03	1,54E-03	1,53E-01	-9,29E+00	-1,85E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,42E+01	1,35E-01	3,35E-04	0	0	0,00E+00	0	5,16E-03	1,54E-03	1,53E-01	-9,29E+00	-1,85E+00
PENRE	[MJ]	5,60E+01	2,36E+00	7,45E-02	0	0	0,00E+00	0	9,00E-02	1,40E+00	2,10E+00	-1,18E+01	-1,26E+00
PENRM	[MJ]	4,06E+01	0,00E+00	0,00E+00	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	9,66E+01	2,36E+00	7,45E-02	0	0	0,00E+00	0	9,00E-02	1,40E+00	2,10E+00	-1,18E+01	-1,26E+00
SM	[kg]	6,37E-01	0,00E+00	0,00E+00	0	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	3,56E+00	0,00E+00	0,00E+00	0	0	0,00E+00	0	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	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,19E-02	1,55E-04	4,20E-04	0	0	0,00E+00	0	5,91E-06	8,40E-03	3,02E-04	-4,55E-03	-7,95E-04
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 m2 Highline Carré & Reform Flux WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
HWD	[kg]	5,58E-04	1,24E-10	2,37E-13	0	7,11E-06	0	0	0,00E+00	3,78E-10	-8,13E-10	-1,71E-08	-2,23E-09
NHWD	[kg]	1,79E-01	3,71E-04	7,06E-07	0	3,19E-03	0	0	0,00E+00	1,46E+00	-2,11E-03	-4,42E-02	-4,86E-03
RWD	[kg]	2,62E-03	4,28E-06	3,55E-06	0	5,94E-04	0	0	7,09E-05	2,44E-05	-1,38E-05	-2,91E-04	-7,62E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,82E-02	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	2,09E-01	0,00E+00	1,01E-01	0	0,00E+00	0	0	0,00E+00	2,01E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,01E+00	0,00E+00	1,07E-01	0	0,00E+00	0	0	0,00E+00	3,48E+00	8,47E-01	0,00E+00	0,00E+00
EET	[MJ]	4,31E+00	0,00E+00	4,55E-01	0	0,00E+00	0	0	0,00E+00	1,49E+01	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												

ENVIRONMENTAL IMPACTS PER m2 Highline Loop & Reform Calico WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
GWP	[kg CO ₂ -eq.]	5,40E+00	1,98E-01	1,71E-01	0	2,30E-01	0	0	7,53E-03	3,42E+00	2,62E+00	-1,15E+00	-1,19E-01
ODP	[kg CFC11-eq.]	4,63E-08	5,30E-17	3,33E-10	0	1,40E-09	0	0	2,02E-18	6,66E-09	5,29E-16	-1,30E-14	-3,48E-15
AP	[kg SO ₂ -eq.]	1,13E-02	4,90E-04	1,04E-04	0	4,12E-04	0	0	1,87E-05	2,07E-03	6,42E-04	-1,66E-03	-1,66E-04
EP	[kg PO ₄ ³⁻ -eq.]	2,65E-03	1,18E-04	2,34E-05	0	6,23E-05	0	0	4,51E-06	4,63E-04	3,85E-03	-3,06E-04	-3,31E-05
POCP	[kg ethene-eq.]	8,46E-04	-1,75E-04	5,66E-06	0	4,60E-05	0	0	-6,69E-06	1,20E-04	6,49E-04	-1,79E-04	-1,75E-05
ADPE	[kg Sb-eq.]	3,04E-06	1,79E-08	-5,65E-08	0	8,57E-08	0	0	6,82E-10	-1,13E-06	1,15E-08	-1,95E-07	-4,24E-08
ADPF	[MJ]	9,61E+01	2,66E+00	6,96E-02	0	2,81E+00	0	0	1,01E-01	1,29E+00	2,32E+00	-1,24E+01	-1,21E+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												

RESOURCE USE PER m2 Highline Loop & Reform Calico WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
PERE	[MJ]	3,68E+01	1,54E-01	3,82E-04	0	1,91E+00	0	0	5,88E-03	1,76E-03	1,74E-01	-1,06E+01	-2,11E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,68E+01	1,54E-01	3,82E-04	0	1,91E+00	0	0	5,88E-03	1,76E-03	1,74E-01	-1,06E+01	-2,11E+00
PENRE	[MJ]	5,55E+01	2,69E+00	8,50E-02	0	4,33E+00	0	0	1,03E-01	1,60E+00	2,40E+00	-1,35E+01	-1,44E+00
PENRM	[MJ]	4,99E+01	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,05E+02	2,69E+00	8,50E-02	0	4,33E+00	0	0	1,03E-01	1,60E+00	2,40E+00	-1,35E+01	-1,44E+00
SM	[kg]	9,22E-01	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	3,59E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	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	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,35E-02	1,77E-04	4,80E-04	0	1,98E-03	0	0	6,74E-06	9,58E-03	3,44E-04	-5,18E-03	-9,07E-04
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 m2 Highline Loop & Reform Calico WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
HWD	[kg]	5,76E-04	1,42E-10	2,70E-13	0	7,11E-06	0	0	5,41E-12	0,00E+00	4,31E-10	-1,95E-08	-2,54E-09
NHWD	[kg]	2,40E-01	4,23E-04	8,05E-07	0	3,19E-03	0	0	1,61E-05	0,00E+00	1,66E+00	-5,04E-02	-5,54E-03
RWD	[kg]	3,49E-03	4,89E-06	4,05E-06	0	5,94E-04	0	0	1,86E-07	8,08E-05	2,79E-05	-3,32E-04	-8,69E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	2,07E-02	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	2,38E-01	0,00E+00	1,15E-01	0	0,00E+00	0	0	0,00E+00	2,30E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,15E+00	0,00E+00	1,65E-01	0	0,00E+00	0	0	0,00E+00	4,79E+00	9,66E-01	0,00E+00	0,00E+00
EET	[MJ]	4,91E+00	0,00E+00	7,03E-01	0	0,00E+00	0	0	0,00E+00	2,05E+01	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												

ENVIRONMENTAL IMPACTS PER m2 Reform Calico & Discovery WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
GWP	[kg CO ₂ -eq.]	5,68E+00	2,12E-01	1,84E-01	0	2,30E-01	0	0	8,09E-03	3,67E+00	2,81E+00	-1,23E+00	-1,28E-01
ODP	[kg CFC11-eq.]	5,22E-08	5,70E-17	3,58E-10	0	1,40E-09	0	0	2,17E-18	7,15E-09	5,68E-16	-1,39E-14	-3,74E-15
AP	[kg SO ₂ -eq.]	1,21E-02	5,26E-04	1,12E-04	0	4,12E-04	0	0	2,00E-05	2,22E-03	6,89E-04	-1,79E-03	-1,79E-04
EP	[kg PO ₄ ³⁻ -eq.]	2,85E-03	1,27E-04	2,51E-05	0	6,23E-05	0	0	4,84E-06	4,97E-04	4,13E-03	-3,28E-04	-3,56E-05
POCP	[kg ethene-eq.]	9,06E-04	-1,88E-04	6,08E-06	0	4,60E-05	0	0	-7,18E-06	1,29E-04	6,97E-04	-1,93E-04	-1,88E-05
ADPE	[kg Sb-eq.]	3,42E-06	1,92E-08	-6,07E-08	0	8,57E-08	0	0	7,32E-10	-1,21E-06	1,23E-08	-2,09E-07	-4,56E-08
ADPF	[MJ]	1,02E+02	2,85E+00	7,47E-02	0	2,81E+00	0	0	1,09E-01	1,39E+00	2,49E+00	-1,33E+01	-1,30E+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												

RESOURCE USE PER m2 Reform Calico & Discovery WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
PERE	[MJ]	3,72E+01	1,66E-01	4,10E-04	0	1,91E+00	0	0	6,32E-03	1,89E-03	1,87E-01	-1,14E+01	-2,26E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,72E+01	1,66E-01	4,10E-04	0	1,91E+00	0	0	6,32E-03	1,89E-03	1,87E-01	-1,14E+01	-2,26E+00
PENRE	[MJ]	5,88E+01	2,89E+00	9,13E-02	0	4,33E+00	0	0	1,10E-01	1,71E+00	2,58E+00	-1,45E+01	-1,54E+00
PENRM	[MJ]	5,24E+01	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,11E+02	2,89E+00	9,13E-02	0	4,33E+00	0	0	1,10E-01	1,71E+00	2,58E+00	-1,45E+01	-1,54E+00
SM	[kg]	9,43E-01	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	3,60E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	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	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,44E-02	1,90E-04	5,15E-04	0	1,98E-03	0	0	7,24E-06	1,03E-02	3,70E-04	-5,57E-03	-9,74E-04
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 m2 Reform Calico & Discovery WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
HWD	[kg]	6,39E-04	1,52E-10	2,90E-13	0	7,11E-06	0	0	5,81E-12	0,00E+00	4,63E-10	-2,09E-08	-2,73E-09
NHWD	[kg]	2,48E-01	4,54E-04	8,64E-07	0	3,19E-03	0	0	1,73E-05	0,00E+00	1,79E+00	-5,41E-02	-5,95E-03
RWD	[kg]	3,60E-03	5,25E-06	4,35E-06	0	5,94E-04	0	0	2,00E-07	8,68E-05	2,99E-05	-3,56E-04	-9,33E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	2,23E-02	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	2,55E-01	0,00E+00	1,23E-01	0	0,00E+00	0	0	0,00E+00	2,47E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,24E+00	0,00E+00	1,68E-01	0	0,00E+00	0	0	0,00E+00	4,89E+00	1,04E+00	0,00E+00	0,00E+00
EET	[MJ]	5,28E+00	0,00E+00	7,19E-01	0	0,00E+00	0	0	0,00E+00	2,09E+01	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												

ENVIRONMENTAL IMPACTS PER m2 Reform Heritage / Construction / Transition / Legend / A New Wave / Memory / Radiant WT

Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
GWP	[kg CO ₂ -eq.]	6,21E+00	2,34E-01	2,03E-01	0	2,30E-01	0	0	8,90E-03	4,05E+00	3,10E+00	-1,35E+00	-1,41E-01
ODP	[kg CFC11-eq.]	5,11E-08	6,27E-17	3,94E-10	0	1,40E-09	0	0	2,39E-18	7,87E-09	6,26E-16	-1,53E-14	-4,12E-15
AP	[kg SO ₂ -eq.]	1,28E-02	5,79E-04	1,23E-04	0	4,12E-04	0	0	2,21E-05	2,44E-03	7,59E-04	-1,96E-03	-1,97E-04
EP	[kg PO ₄ ³⁻ -eq.]	2,98E-03	1,40E-04	2,76E-05	0	6,23E-05	0	0	5,33E-06	5,48E-04	4,55E-03	-3,60E-04	-3,92E-05
POCP	[kg ethene-eq.]	9,28E-04	-2,08E-04	6,69E-06	0	4,60E-05	0	0	-7,91E-06	1,42E-04	7,68E-04	-2,11E-04	-2,07E-05
ADPE	[kg Sb-eq.]	3,38E-06	2,12E-08	-6,68E-08	0	8,57E-08	0	0	8,06E-10	-1,34E-06	1,36E-08	-2,30E-07	-5,02E-08
ADPF	[MJ]	1,07E+02	3,14E+00	8,23E-02	0	2,81E+00	0	0	1,20E-01	1,53E+00	2,75E+00	-1,46E+01	-1,43E+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												

RESOURCE USE PER m2 Reform Heritage / Construction / Transition / Legend / A New Wave / Memory / Radiant WT

Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
PERE	[MJ]	3,98E+01	1,83E-01	4,52E-04	0	1,91E+00	0	0	6,96E-03	2,08E-03	2,06E-01	-1,25E+01	-2,49E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,98E+01	1,83E-01	4,52E-04	0	1,91E+00	0	0	6,96E-03	2,08E-03	2,06E-01	-1,25E+01	-2,49E+00
PENRE	[MJ]	5,71E+01	3,19E+00	1,00E-01	0	4,33E+00	0	0	1,21E-01	1,89E+00	2,84E+00	-1,59E+01	-1,70E+00
PENRM	[MJ]	6,18E+01	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,19E+02	3,19E+00	1,00E-01	0	4,33E+00	0	0	1,21E-01	1,89E+00	2,84E+00	-1,59E+01	-1,70E+00
SM	[kg]	1,25E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	3,61E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	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	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,57E-02	2,09E-04	5,67E-04	0	1,98E-03	0	0	7,97E-06	1,13E-02	4,07E-04	-6,13E-03	-1,07E-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 m2 Reform Heritage / Construction / Transition / Legend / A New Wave / Memory / Radiant WT

Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
HWD	[kg]	6,40E-04	1,68E-10	3,20E-13	0	7,11E-06	0	0	6,39E-12	0,00E+00	5,10E-10	-2,30E-08	-3,00E-09
NHWD	[kg]	3,12E-01	5,00E-04	9,52E-07	0	3,19E-03	0	0	1,90E-05	0,00E+00	1,97E+00	-5,96E-02	-6,55E-03
RWD	[kg]	4,51E-03	5,78E-06	4,79E-06	0	5,94E-04	0	0	2,20E-07	9,56E-05	3,29E-05	-3,92E-04	-1,03E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	2,45E-02	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	2,81E-01	0,00E+00	1,36E-01	0	0,00E+00	0	0	0,00E+00	2,71E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,36E+00	0,00E+00	2,30E-01	0	0,00E+00	0	0	0,00E+00	6,28E+00	1,14E+00	0,00E+00	0,00E+00
EET	[MJ]	5,81E+00	0,00E+00	9,82E-01	0	0,00E+00	0	0	0,00E+00	2,68E+01	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												

ENVIRONMENTAL IMPACTS PER m2 Highline 1100 WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
GWP	[kg CO ₂ -eq.]	5,93E+00	2,21E-01	1,92E-01	0	2,30E-01	0	0	8,43E-03	3,83E+00	2,93E+00	-1,28E+00	-1,33E-01
ODP	[kg CFC11-eq.]	3,35E-08	5,94E-17	3,73E-10	0	1,40E-09	0	0	2,26E-18	7,46E-09	5,92E-16	-1,45E-14	-3,90E-15
AP	[kg SO ₂ -eq.]	1,04E-02	5,48E-04	1,17E-04	0	4,12E-04	0	0	2,09E-05	2,31E-03	7,18E-04	-1,86E-03	-1,86E-04
EP	[kg PO ₄ ³⁻ -eq.]	2,33E-03	1,32E-04	2,62E-05	0	6,23E-05	0	0	5,05E-06	5,18E-04	4,31E-03	-3,42E-04	-3,71E-05
POCP	[kg ethene-eq.]	7,84E-04	-1,96E-04	6,33E-06	0	4,60E-05	0	0	-7,48E-06	1,34E-04	7,27E-04	-2,01E-04	-1,96E-05
ADPE	[kg Sb-eq.]	2,89E-06	2,00E-08	-6,32E-08	0	8,57E-08	0	0	7,63E-10	-1,27E-06	1,29E-08	-2,18E-07	-4,75E-08
ADPF	[MJ]	1,00E+02	2,97E+00	7,79E-02	0	2,81E+00	0	0	1,13E-01	1,44E+00	2,60E+00	-1,39E+01	-1,35E+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												

RESOURCE USE PER m2 Highline 1100 WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
PERE	[MJ]	4,19E+01	1,73E-01	4,28E-04	0	1,91E+00	0	0	6,59E-03	1,97E-03	1,95E-01	-1,19E+01	-2,36E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	4,19E+01	1,73E-01	4,28E-04	0	1,91E+00	0	0	6,59E-03	1,97E-03	1,95E-01	-1,19E+01	-2,36E+00
PENRE	[MJ]	5,23E+01	3,02E+00	9,51E-02	0	4,33E+00	0	0	1,15E-01	1,79E+00	2,69E+00	-1,51E+01	-1,61E+00
PENRM	[MJ]	6,11E+01	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,13E+02	3,02E+00	9,51E-02	0	4,33E+00	0	0	1,15E-01	1,79E+00	2,69E+00	-1,51E+01	-1,61E+00
SM	[kg]	1,29E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	3,60E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	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	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,36E-02	1,98E-04	5,37E-04	0	1,98E-03	0	0	7,54E-06	1,07E-02	3,85E-04	-5,80E-03	-1,02E-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 m2 Highline 1100 WT													
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3/1	C4/2	D/1	D/2
HWD	[kg]	3,26E-04	1,59E-10	3,03E-13	0	7,11E-06	0	0	6,05E-12	0,00E+00	4,83E-10	-2,18E-08	-2,84E-09
NHWD	[kg]	3,32E-01	4,73E-04	9,01E-07	0	3,19E-03	0	0	1,80E-05	0,00E+00	1,86E+00	-5,65E-02	-6,21E-03
RWD	[kg]	5,05E-03	5,47E-06	4,53E-06	0	5,94E-04	0	0	2,08E-07	9,05E-05	3,12E-05	-3,71E-04	-9,73E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	2,32E-02	0,00E+00	0,00E+00	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	2,66E-01	0,00E+00	1,29E-01	0	0,00E+00	0	0	0,00E+00	2,57E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,29E+00	0,00E+00	2,66E-01	0	0,00E+00	0	0	0,00E+00	7,64E+00	1,08E+00	0,00E+00	0,00E+00
EET	[MJ]	5,50E+00	0,00E+00	1,14E+00	0	0,00E+00	0	0	0,00E+00	3,26E+01	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

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