

This appendix refers to the EPD MD-24032_EN_rev1. 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.

RT550 DK-NF BS

ENVIRONMENTAL IMPACTS PER TONNES RT550 DK-NF BS										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	3,25E+02	5,29E+00	3,22E+00	0,00E+00	0,00E+00	7,35E+00	3,44E+00	5,41E-02	-5,58E+00
OPD	[kg CFC 11 eq.]	1,21E-05	9,52E-08	1,38E-08	0,00E+00	0,00E+00	1,32E-07	4,48E-08	1,53E-09	-9,88E-08
AP	[kg SO ₂ eq.]	9,69E-01	1,59E-02	2,85E-03	0,00E+00	0,00E+00	2,14E-02	2,96E-02	3,24E-04	-3,34E-02
EP	[kg SO ₄ ³⁻ eq.]	1,50E-01	3,46E-03	9,29E-04	0,00E+00	0,00E+00	4,68E-03	5,41E-03	6,22E-05	-1,18E-02
POCP	[kg ethene-eq.]	2,73E-02	8,32E-04	1,21E-04	0,00E+00	0,00E+00	1,15E-03	6,21E-04	1,41E-05	-2,36E-03
ADPE	[kg Sb-eq.]	8,82E-04	1,43E-05	1,60E-06	0,00E+00	0,00E+00	2,37E-05	1,21E-06	5,79E-08	-5,59E-05
ADPF	[MJ]	2,95E+03	7,61E+01	1,04E+01	0,00E+00	0,00E+00	1,02E+02	4,50E+01	1,37E+00	-6,12E+01
Caption	GWP = Global warming potential; OPD = 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 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.									

RESOURCE USE PER TONNES										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	7,91E+02	1,14E+00	2,67E-01	0,00E+00	0,00E+00	1,62E+00	2,57E-01	2,77E-02	-4,00E+01
PERM	[MJ]	4,04E+01	0,00E+00	-4,04E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	8,31E+02	1,14E+00	-4,01E+01	0,00E+00	0,00E+00	1,62E+00	2,57E-01	2,77E-02	-4,00E+01
PENRE	[MJ]	6,69E+02	7,78E+01	1,08E+01	0,00E+00	0,00E+00	1,05E+02	4,53E+01	1,40E+00	-7,19E+01
PENRM	[MJ]	3,29E+01	0,00E+00	-3,29E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	7,02E+02	7,78E+01	-2,21E+01	0,00E+00	0,00E+00	1,05E+02	4,53E+01	1,40E+00	-7,19E+01
SM	[kg]	1,14E+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
RSF	[MJ]	1,91E+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
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]	1,16E+00	1,22E-02	7,36E-03	0,00E+00	0,00E+00	1,49E-02	3,55E-03	1,63E-03	-3,66E-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									
	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 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,33E-02	4,83E-04	6,38E-05	0,00E+00	0,00E+00	6,67E-04	3,04E-04	6,81E-06	-3,81E-04
NHWD	[kg]	2,12E+01	6,81E+00	3,41E+01	0,00E+00	0,00E+00	5,10E+00	6,48E-02	9,69E+00	-9,50E-01
RWD	[kg]	1,26E-03	2,37E-05	5,94E-06	0,00E+00	0,00E+00	3,40E-05	4,96E-06	3,02E-07	-1,66E-04

CRU	[kg]	9,20E-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
MFR	[kg]	6,70E+01	0,00E+00	1,16E+00	0,00E+00	0,00E+00	0,00E+00	9,60E+02	0,00E+00	0,00E+00
MER	[kg]	1,94E-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
EE	[MJ]	0,00E+00	0,00E+00	1,21E+01	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									
	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 0,0000000000112.									

RT515 DK-NF BS

ENVIRONMENTAL IMPACTS PER TONNES RT515 DK-NF BS										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	2,17E+02	5,28E+00	3,22E+00	0,00E+00	0,00E+00	7,35E+00	3,44E+00	5,41E-02	-5,55E+00
OPD	[kg CFC 11 eq.]	1,00E-05	9,50E-08	1,37E-08	0,00E+00	0,00E+00	1,32E-07	4,48E-08	1,53E-09	-9,79E-08
AP	[kg SO ₂ eq.]	9,02E-01	1,59E-02	2,82E-03	0,00E+00	0,00E+00	2,14E-02	2,96E-02	3,24E-04	-3,32E-02
EP	[kg SO ₄ ³⁻ eq.]	1,30E-01	3,46E-03	9,12E-04	0,00E+00	0,00E+00	4,68E-03	5,41E-03	6,22E-05	-1,17E-02
POCP	[kg ethene-eq.]	2,36E-02	8,31E-04	1,20E-04	0,00E+00	0,00E+00	1,15E-03	6,21E-04	1,41E-05	-2,35E-03
ADPE	[kg Sb-eq.]	8,71E-04	1,43E-05	1,58E-06	0,00E+00	0,00E+00	2,37E-05	1,21E-06	5,79E-08	-5,58E-05
ADPF	[MJ]	2,46E+03	7,60E+01	1,03E+01	0,00E+00	0,00E+00	1,02E+02	4,50E+01	1,37E+00	-6,09E+01
Caption	GWP = Global warming potential; OPD = 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									
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RESOURCE USE PER TONNES										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	7,67E+02	1,13E+00	2,60E-01	0,00E+00	0,00E+00	1,62E+00	2,57E-01	2,77E-02	-3,94E+01
PERM	[MJ]	3,79E+01	0,00E+00	-3,79E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	8,05E+02	1,13E+00	-3,77E+01	0,00E+00	0,00E+00	1,62E+00	2,57E-01	2,77E-02	-3,94E+01
PENRE	[MJ]	6,75E+02	7,77E+01	1,07E+01	0,00E+00	0,00E+00	1,05E+02	4,53E+01	1,40E+00	-7,15E+01
PENRM	[MJ]	3,29E+01	0,00E+00	-3,29E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	7,08E+02	7,77E+01	-2,22E+01	0,00E+00	0,00E+00	1,05E+02	4,53E+01	1,40E+00	-7,15E+01
SM	[kg]	1,59E+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
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]	7,42E-01	1,22E-02	7,31E-03	0,00E+00	0,00E+00	1,49E-02	3,55E-03	1,63E-03	-3,66E-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									
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WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,18E-02	4,83E-04	6,33E-05	0,00E+00	0,00E+00	6,67E-04	3,04E-04	6,81E-06	-3,80E-04
NHWD	[kg]	2,39E+01	6,80E+00	3,39E+01	0,00E+00	0,00E+00	5,10E+00	6,48E-02	9,69E+00	-9,48E-01
RWD	[kg]	7,14E-04	2,37E-05	5,71E-06	0,00E+00	0,00E+00	3,40E-05	4,96E-06	3,02E-07	-1,64E-04

CRU	[kg]	9,20E-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
MFR	[kg]	6,70E+01	0,00E+00	1,08E+00	0,00E+00	0,00E+00	0,00E+00	9,60E+02	0,00E+00	0,00E+00
MER	[kg]	1,94E-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
EE	[MJ]	0,00E+00	0,00E+00	1,18E+01	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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RT510 DK-NF BS

ENVIRONMENTAL IMPACTS PER TONNES RT510 DK-NF BS										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	2,18E+02	5,27E+00	3,21E+00	0,00E+00	0,00E+00	7,35E+00	3,44E+00	5,41E-02	-5,51E+00
OPD	[kg CFC 11 eq.]	1,06E-05	9,48E-08	1,36E-08	0,00E+00	0,00E+00	1,32E-07	4,48E-08	1,53E-09	-9,68E-08
AP	[kg SO ₂ eq.]	9,00E-01	1,58E-02	2,78E-03	0,00E+00	0,00E+00	2,14E-02	2,96E-02	3,24E-04	-3,31E-02
EP	[kg SO ₄ ³⁻ eq.]	1,29E-01	3,45E-03	8,88E-04	0,00E+00	0,00E+00	4,68E-03	5,41E-03	6,22E-05	-1,16E-02
POCP	[kg ethene-eq.]	2,33E-02	8,29E-04	1,18E-04	0,00E+00	0,00E+00	1,15E-03	6,21E-04	1,41E-05	-2,34E-03
ADPE	[kg Sb-eq.]	8,53E-04	1,43E-05	1,56E-06	0,00E+00	0,00E+00	2,37E-05	1,21E-06	5,79E-08	-5,56E-05
ADPF	[MJ]	2,49E+03	7,59E+01	1,03E+01	0,00E+00	0,00E+00	1,02E+02	4,50E+01	1,37E+00	-6,04E+01
Caption	GWP = Global warming potential; OPD = 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									
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RESOURCE USE PER TONNES										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	7,66E+02	1,13E+00	2,51E-01	0,00E+00	0,00E+00	1,62E+00	2,57E-01	2,77E-02	-3,86E+01
PERM	[MJ]	3,46E+01	0,00E+00	-3,46E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	8,01E+02	1,13E+00	-3,44E+01	0,00E+00	0,00E+00	1,62E+00	2,57E-01	2,77E-02	-3,86E+01
PENRE	[MJ]	5,20E+02	7,75E+01	1,06E+01	0,00E+00	0,00E+00	1,05E+02	4,53E+01	1,40E+00	-7,09E+01
PENRM	[MJ]	3,29E+01	0,00E+00	-3,29E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	5,53E+02	7,75E+01	-2,23E+01	0,00E+00	0,00E+00	1,05E+02	4,53E+01	1,40E+00	-7,09E+01
SM	[kg]	1,59E+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
RSF	[MJ]	4,30E+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
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]	6,97E-01	1,21E-02	7,25E-03	0,00E+00	0,00E+00	1,49E-02	3,55E-03	1,63E-03	-3,65E-01
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HWD	[kg]	1,17E-02	4,82E-04	6,26E-05	0,00E+00	0,00E+00	6,67E-04	3,04E-04	6,81E-06	-3,79E-04
NHWD	[kg]	1,89E+01	6,78E+00	3,37E+01	0,00E+00	0,00E+00	5,10E+00	6,48E-02	9,69E+00	-9,44E-01
RWD	[kg]	6,65E-04	2,36E-05	5,41E-06	0,00E+00	0,00E+00	3,40E-05	4,96E-06	3,02E-07	-1,62E-04

CRU	[kg]	9,20E-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
MFR	[kg]	6,70E+01	0,00E+00	9,66E-01	0,00E+00	0,00E+00	0,00E+00	9,60E+02	0,00E+00	0,00E+00
MER	[kg]	1,94E-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
EE	[MJ]	0,00E+00	0,00E+00	1,14E+01	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



Mirko Miseljic, FORCE Technology Denmark
Third party verifier of MD-24032_EN_rev1

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