

This appendix refers to the EPD >MD-210333-EN version 2<, developed according to EN15804:2012+A2:2019.

This appendix presents LCA results for Derbigum NT in accordance with EN15804:2012+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 ² installed roof waterproofing during 50 years										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	3.65E+00	4.19E-01	3.23E-01	0.00E+00	0.00E+00	4.66E-01	1.22E-01	1.15E-05	-2.61E-01
ODP	[kg CFC111-eq.]	6.69E-08	1.12E-16	1.21E-09	0.00E+00	0.00E+00	1.25E-16	5.27E-10	3.88E-20	-4.23E-08
AP	[kg SO ₂ -eq.]	8.55E-03	9.50E-04	4.47E-04	0.00E+00	0.00E+00	1.06E-03	3.49E-05	3.14E-08	-6.32E-03
EP	[kg PO ₄ ³⁻ -eq.]	1.29E-03	2.28E-04	7.66E-05	0.00E+00	0.00E+00	2.53E-04	1.36E-05	3.41E-09	1.13E-04
POCP	[kg ethene-eq.]	3.18E-03	-3.28E-04	1.09E-04	0.00E+00	0.00E+00	-3.65E-04	2.00E-06	2.89E-09	-5.15E-03
ADPE	[kg Sb-eq.]	3.11E-06	3.78E-08	7.35E-08	0.00E+00	0.00E+00	4.21E-08	5.99E-08	8.62E-13	1.72E-07
ADPF	[MJ]	1.74E+02	5.62E+00	7.30E+00	0.00E+00	0.00E+00	6.25E+00	2.84E-02	1.73E-04	-1.72E+02
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 m ² installed roof waterproofing during 50 years										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	9.93E+00	3.27E-01	2.91E-01	0.00E+00	0.00E+00	3.63E-01	1.22E-03	1.29E-05	9.94E+00
PERM	[MJ]	1.95E-01	0.00E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	1.01E+01	3.27E-01	3.18E-01	0.00E+00	0.00E+00	3.63E-01	1.22E-03	1.29E-05	9.94E+00
PENRE	[MJ]	3.38E+01	5.70E+00	4.15E+00	0.00E+00	0.00E+00	6.33E+00	3.00E-02	1.79E-04	7.34E+01
PENRM	[MJ]	1.48E+02	0.00E+00	3.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.56E+02
PENRT	[MJ]	1.82E+02	5.70E+00	7.55E+00	0.00E+00	0.00E+00	6.33E+00	3.00E-02	1.79E-04	-1.83E+02
SM	[kg]	1.18E+00	0.00E+00	2.12E-02	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]	1.14E-02	3.74E-04	4.95E-04	0.00E+00	0.00E+00	4.16E-04	6.72E-05	1.85E-09	-1.37E-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 m ² installed roof waterproofing during 50 years										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	9.83E-09	3.00E-10	4.01E-10	0.00E+00	0.00E+00	3.34E-10	0.00E+00	3.17E-14	6.11E-10
NHWD	[kg]	5.39E-02	8.94E-04	1.86E-03	0.00E+00	0.00E+00	9.93E-04	0.00E+00	2.52E-04	2.17E-03
RWD	[kg]	8.27E-04	1.03E-05	4.78E-05	0.00E+00	0.00E+00	1.15E-05	0.00E+00	2.04E-09	-2.93E-05
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	9.13E-02	0.00E+00	0.00E+00	0.00E+00	5.12E+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	4.08E-02	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	7.38E-02	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



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