

This appendix refers to the EPD MD-21099-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.

Product name: Knauf Danoline Danotile

ENVIRONMENTAL EFFECTS PER PRODUKT PER M ²								
Parameter	Enhed	A1-A3	A4	C1	C2	C3	C4	D
GWP	[kg CO2-eq.]	1.47E+00	1.71E-01	0.00E+00	1.43E-01	4.15E-02	8.22E-01	-2.76E-01
ODP	[kg CFC11-eq.]	6.39E-09	4.58E-17	0.00E+00	3.84E-17	1.34E-15	2.31E-16	-4.28E-15
AP	[kg SO2-eq.]	4.49E-03	1.38E-04	0.00E+00	1.16E-04	7.05E-05	1.89E-04	-3.10E-04
EP	[kg PO43--eq.]	1.37E-03	2.74E-05	0.00E+00	2.29E-05	9.28E-06	3.73E-05	-4.91E-05
POCP	[kg ethene-eq.]	4.25E-04	-2.72E-06	0.00E+00	-2.28E-06	5.93E-06	1.27E-05	-3.19E-05
ADPE	[kg Sb-eq.]	2.24E-06	1.55E-08	0.00E+00	1.29E-08	1.31E-08	2.73E-09	-4.90E-08
ADPF	[MJ]	3.94E+01	2.30E+00	0.00E+00	1.92E+00	4.63E-01	2.53E-01	-3.95E+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							

RESSOURCE CONSUMPTION PER PRODUKT PER M ²								
Parameter	Enhed	A1-A3	A4	C1	C2	C3	C4	D
PERE	[MJ]	-4.22E+01	1.33E-01	0.00E+00	1.12E-01	3.45E-01	5.39E-02	-1.10E+00
PERM	[MJ]	6.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.21E+01	1.33E-01	0.00E+00	1.12E-01	3.45E-01	5.39E-02	-1.10E+00
PENRE	[MJ]	3.52E+01	2.33E+00	0.00E+00	1.95E+00	7.49E-01	2.89E-01	-4.85E+00
PENRM	[MJ]	5.98E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	4.12E+01	2.33E+00	0.00E+00	1.95E+00	7.49E-01	2.89E-01	-4.85E+00
SM	[kg]	5.72E+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
NRSF	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	1.94E-02	1.53E-04	0.00E+00	1.28E-04	3.36E-04	2.40E-03	-1.06E-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 = Net use of fresh water							

WASTE CATEGORIES AND OUTPUT FLOWS PER PRODUKT PER M ²								
Parameter	Enhed	A1-A3	A4	C1	C2	C3	C4	D
HWD	[kg]	1.97E-06	1.23E-10	0.00E+00	1.03E-10	1.98E-10	5.34E-11	-1.09E-09
NHWD	[kg]	4.24E-02	3.65E-04	0.00E+00	3.06E-04	5.31E-04	4.29E-02	-2.27E-03
RWD	[kg]	6.51E-04	4.22E-06	0.00E+00	3.53E-06	1.11E-04	1.40E-05	-3.48E-04
CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	4.74E-02	0.00E+00	0.00E+00	0.00E+00	8.93E+00	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-01	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	1.18E+00
EET	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E+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

Ninkie Bendtsen
Third party verifier of MD-21087-EN

Martha Katrine Sørensen
EPD Danmark