

This appendix refers to the EPD MD-21098-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: Perforated Knauf Danoline: Markant, Contur, Linear and Danopanel

ENVIRONMENTAL EFFECTS PER PRODUKT PER M ²								
Parameter	Enhed	A1-A3	A4	C1	C2	C3	C4	D
GWP	[kg CO2-eq.]	2.57E+00	1.96E-01	0.00E+00	1.61E-01	4.67E-02	1.04E+00	-7.53E-01
ODP	[kg CFC11-eq.]	2.49E-08	5.26E-17	0.00E+00	4.31E-17	1.51E-15	3.20E-16	-2.40E-15
AP	[kg SO2-eq.]	1.02E-02	1.59E-04	0.00E+00	1.30E-04	7.92E-05	2.79E-04	-1.35E-03
EP	[kg PO43--eq.]	2.25E-03	3.14E-05	0.00E+00	2.57E-05	1.04E-05	5.47E-05	-1.38E-04
POCP	[kg ethene-eq.]	9.28E-04	-3.13E-06	0.00E+00	-2.56E-06	6.67E-06	1.82E-05	-1.65E-04
ADPE	[kg Sb-eq.]	5.21E-06	1.78E-08	0.00E+00	1.45E-08	1.47E-08	3.77E-09	-4.88E-08
ADPF	[MJ]	5.98E+01	2.64E+00	0.00E+00	2.16E+00	5.20E-01	3.54E-01	-7.95E+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]	-4.33E+01	1.53E-01	0.00E+00	1.26E-01	3.88E-01	7.39E-02	-9.05E-01
PERM	[MJ]	7.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.83E+01	1.53E-01	0.00E+00	1.26E-01	3.88E-01	7.39E-02	-9.05E-01
PENRE	[MJ]	5.74E+01	2.67E+00	0.00E+00	2.19E+00	8.41E-01	4.02E-01	-8.97E+00
PENRM	[MJ]	5.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	6.25E+01	2.67E+00	0.00E+00	2.19E+00	8.41E-01	4.02E-01	-8.97E+00
SM	[kg]	7.13E+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]	2.87E-02	1.76E-04	0.00E+00	1.44E-04	3.78E-04	3.05E-03	-1.56E-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]	3.98E-06	1.41E-10	0.00E+00	1.15E-10	2.22E-10	7.42E-11	-9.11E-10
NHWD	[kg]	6.17E-02	4.19E-04	0.00E+00	3.43E-04	5.97E-04	7.76E-02	-8.94E-03
RWD	[kg]	8.38E-04	4.85E-06	0.00E+00	3.97E-06	1.25E-04	1.86E-05	-3.63E-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]	1.51E-01	0.00E+00	0.00E+00	0.00E+00	9.93E+00	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-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	1.41E+00
EET	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E+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