

This appendix refers to the EPD MD-21094-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: Designpanel and Tectopanel

ENVIRONMENTAL EFFECTS PER PRODUKT PER M ²								
Parameter	Enhed	A1-A3	A4	C1	C2	C3	C4	D
GWP	[kg CO2-eq.]	1.61E+00	1.87E-01	0.00E+00	1.53E-01	4.45E-02	7.59E-01	-2.57E-01
ODP	[kg CFC11-eq.]	7.92E-09	5.01E-17	0.00E+00	4.11E-17	1.44E-15	2.13E-16	-3.98E-15
AP	[kg SO2-eq.]	5.55E-03	1.51E-04	0.00E+00	1.24E-04	7.55E-05	1.73E-04	-2.91E-04
EP	[kg PO43--eq.]	1.69E-03	2.99E-05	0.00E+00	2.45E-05	9.94E-06	3.43E-05	-4.66E-05
POCP	[kg ethene-eq.]	5.15E-04	-2.97E-06	0.00E+00	-2.44E-06	6.35E-06	1.16E-05	-3.00E-05
ADPE	[kg Sb-eq.]	2.84E-06	1.69E-08	0.00E+00	1.39E-08	1.40E-08	2.52E-09	-4.56E-08
ADPF	[MJ]	4.65E+01	2.51E+00	0.00E+00	2.06E+00	4.96E-01	2.33E-01	-3.67E+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]	-4.42E+01	1.46E-01	0.00E+00	1.20E-01	3.70E-01	4.96E-02	-1.02E+00
PERM	[MJ]	7.11E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.69E+01	1.46E-01	0.00E+00	1.20E-01	3.70E-01	4.96E-02	-1.02E+00
PENRE	[MJ]	4.51E+01	2.54E+00	0.00E+00	2.09E+00	8.02E-01	2.66E-01	-4.50E+00
PENRM	[MJ]	3.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	4.86E+01	2.54E+00	0.00E+00	2.09E+00	8.02E-01	2.66E-01	-4.50E+00
SM	[kg]	7.07E+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]	2.23E-02	1.67E-04	0.00E+00	1.37E-04	3.60E-04	2.22E-03	-9.86E-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 = 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]	2.76E-06	1.34E-10	0.00E+00	1.10E-10	2.12E-10	4.92E-11	-1.01E-09
NHWD	[kg]	5.21E-02	3.99E-04	0.00E+00	3.27E-04	5.69E-04	3.91E-02	-2.11E-03
RWD	[kg]	7.49E-04	4.61E-06	0.00E+00	3.79E-06	1.19E-04	1.29E-05	-3.23E-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]	1.17E-01	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-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	1.09E+00
EET	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E+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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