

This appendix refers to the EPD MD-22145-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.

LCIA results following EN15804:2012+A1:2013 – Fibertex PP:

ENVIRONMENTAL IMPACTS PER DECLARED UNIT (1 KG)													
Parameter	Unit	A1-A3	Scenario										
			Landfill					Incineration					Remains*
			C1	C2	C3	C4	D	C1	C2	C3	C4	D	
GWP	[kg CO ₂ -eq.]	2.77E+00	2.62E-04	7.45E-03	0.00E+00	6.63E-02	0.00E+00	2.62E-04	7.45E-03	3.13E+00	0.00E+00	-1.46E+00	0.00E+00
ODP	[kg CFC11-eq.]	1.29E-10	3.18E-17	8.88E-16	0.00E+00	1.12E-13	0.00E+00	3.18E-17	8.88E-16	1.58E-13	0.00E+00	-1.18E-11	0.00E+00
AP	[kg SO ₂ -eq.]	4.01E-03	2.58E-06	6.26E-06	0.00E+00	1.71E-04	0.00E+00	2.58E-06	6.26E-06	1.87E-04	0.00E+00	-1.54E-03	0.00E+00
EP	[kg PO ₄ ³⁻ -eq.]	5.67E-04	5.66E-07	1.29E-06	0.00E+00	1.90E-04	0.00E+00	5.66E-07	1.29E-06	4.17E-05	0.00E+00	-2.19E-04	0.00E+00
POCP	[kg ethene-eq.]	7.94E-04	2.74E-07	-1.07E-07	0.00E+00	1.58E-05	0.00E+00	2.74E-07	-1.07E-07	2.00E-05	0.00E+00	-1.51E-04	0.00E+00
ADPE	[kg Sb-eq.]	4.68E-07	2.77E-11	7.75E-10	0.00E+00	4.99E-09	0.00E+00	2.77E-11	7.75E-10	3.39E-09	0.00E+00	-2.36E-07	0.00E+00
ADPF	[MJ]	8.64E+01	3.57E-03	9.96E-02	0.00E+00	9.71E-01	0.00E+00	3.57E-03	9.96E-02	3.07E-01	0.00E+00	-2.00E+01	0.00E+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												
	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 0,00000000000112.												

*EOL-scenario: Remains in construction

RESOURCE USE PER DECLARED UNIT (1 KG)													
Parameter	Unit	A1-A3	Scenario										
			Landfill					Incineration					Remains*
			C1	C2	C3	C4	D	C1	C2	C3	C4	D	
PERE	[MJ]	7.45E+00	2.50E-04	6.99E-03	0.00E+00	8.27E-02	0.00E+00	2.50E-04	6.99E-03	8.61E-02	0.00E+00	-6.94E+00	0.00E+00
PERM	[MJ]	1.74E+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	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	9.19E+00	2.50E-04	6.99E-03	0.00E+00	8.27E-02	0.00E+00	2.50E-04	6.99E-03	8.61E-02	0.00E+00	-6.94E+00	0.00E+00
PENRE	[MJ]	4.71E+01	3.62E-03	1.01E-01	0.00E+00	1.01E+00	0.00E+00	3.62E-03	1.01E-01	3.65E-01	0.00E+00	-2.51E+01	0.00E+00
PENRM	[MJ]	4.46E+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	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	9.17E+01	3.62E-03	1.01E-01	0.00E+00	1.01E+00	0.00E+00	3.62E-03	1.01E-01	3.65E-01	0.00E+00	-2.51E+01	0.00E+00
SM	[kg]	1.12E-04	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	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	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	0.00E+00	0.00E+00	0.00E+00
FW	[m ³]	1.42E-02	2.89E-07	8.07E-06	0.00E+00	1.30E-05	0.00E+00	2.89E-07	8.07E-06	6.77E-03	0.00E+00	-6.67E-03	0.00E+00
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												
	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 0,00000000000112.												

*EOL-scenario: Remains in construction

WASTE CATEGORIES AND OUTPUT FLOWS PER DECLARED UNIT (1 KG)													
Parameter	Unit	A1-A3	Scenario										
			Landfill					Incineration					Remains*
			C1	C2	C3	C4	D	C1	C2	C3	C4	D	
HWD	[kg]	2.76E-08	1.92E-14	5.35E-13	0.00E+00	1.55E-10	0.00E+00	1.92E-14	5.35E-13	3.44E-11	0.00E+00	-3.40E-09	0.00E+00
NHWD	[kg]	3.68E-02	5.90E-07	1.65E-05	0.00E+00	9.96E-01	0.00E+00	5.90E-07	1.65E-05	1.24E-02	0.00E+00	-1.27E-02	0.00E+00
RWD	[kg]	1.88E-03	6.72E-09	1.88E-07	0.00E+00	1.24E-05	0.00E+00	6.72E-09	1.88E-07	2.21E-05	0.00E+00	-1.99E-03	0.00E+00
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	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	7.31E-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	0.00E+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	0.00E+00	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	0.00E+00	0.00E+00	6.68E+00	0.00E+00	0.00E+00	0.00E+00
EET	[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	1.19E+01	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 0,00000000000112.												

*EOL-scenario: Remains in construction

Checked and approved by



Guangli Du
Third party verifier of MD-22145-EN



Martha Katrine Sørensen
EPD Denmark