

LCA Results acc. EN15804+A1:2013

Appendix for MD-22036-EN Valid to: 20-12-2027



This appendix refers to the EPD MD-22036-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.

ENVIRONMENTAL IMPACTS PER [30 meter Steel Plus Rain Gutter System]											
Parameter	Unit	A1-A3	A4	A5	B2	B1, B3- B7	C1	C2	СЗ	C4	D
GWP	[kg CO₂-eq.]	1.86E+02	5.90E-01	2.35E+00	5.05E-02	0	0	4.70E-01	0	1.52E-01	-1.04E+02
ODP	[kg CFC11-eq.]	1.01E-08	7.03E-14	2.18E-13	1.78E-13	0	0	5.60E-14	0	2.51E-13	-3.95E-08
AP	[kg SO₂-eq.]	3.41E-01	4.97E-04	3.81E-04	5.11E-05	0	0	1.18E-03	0	4.11E-04	-2.00E-01
EP	[kg PO <sub>4</sub> ³eq.]	3.42E-02	1.02E-04	8.57E-05	2.28E-04	0	0	2.89E-04	0	4.39E-05	-1.65E-02
POCP	[kg ethene-eq.]	5.55E-02	-9.69E-06	2.74E-05	5.52E-06	0	0	-4.20E-04	0	3.84E-05	-5.15E-02
ADPE	[kg Sb-eq.]	9.87E-04	6.14E-08	4.80E-09	3.43E-09	0	0	4.89E-08	0	1.15E-08	-2.63E-04
ADPF	[MJ]	2.17E+03	7.89E+00	4.65E-01	2.00E-01	0	0	6.29E+00	0	2.22E+00	-1.11E+03
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, e.g., 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 0.000000000112.

RESOURCE USE PER [30 meter Steel Plus Rain Gutter System]											
Parameter	Unit	A1-A3	A4	<b>A</b> 5	В2	B1, B3- B7	C1	C2	СЗ	C4	D
PERE	[MJ]	1.20E+02	5.53E-01	1.17E-01	9.65E-02	0	0	4.41E-01	0	1.88E-01	4.87E+01
PERM	[MJ]	2.17E+01	0	0	0	0	0	0	0	0	0
PERT	[MJ]	1.42E+02	5.53E-01	1.17E-01	9.65E-02	0	0	4.41E-01	0	1.88E-01	4.87E+01
PENRE	[MJ]	2.23E+03	8.01E+00	5.42E-01	2.62E-01	0	0	6.39E+00	0	2.30E+00	-1.09E+03
PENRM	[MJ]	4.76E+01	0	0	0	0	0	0	0	0	0
PENRT	[MJ]	2.28E+03	8.01E+00	5.42E-01	2.62E-01	0	0	6.39E+00	0	2.30E+00	-1.09E+03
SM	[kg]	3.78E+01	0	0	0	0	0	0	0	0	0
RSF	[MJ]	0	0	0	0	0	0	0	0	0	0
NRSF	[MJ]	0	0	0	0	0	0	0	0	0	0
FW	[m³]	1.37E+00	6.39E-04	5.79E-03	2.83E-04	0	0	5.09E-04	0	3.23E-05	-5.33E-01
	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of										

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; 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

The numbers are declared in scientific notation, e.g., 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 0.000000000112.

WASTE CATECORIES AND OUTDUT II OWS DED [20 makes Sheet Blue Bein Codes.]											
WASTE CATEGORIES AND OUTPUT FLOWS PER [30 meter Steel Plus Rain Gutter System]											
Parameter	Unit	A1-A3	A4	<b>A</b> 5	B2	B1, B3- B7	C1	C2	С3	C4	D
HWD	[kg]	7.42E-06	4.24E-11	5.64E-11	2.19E-11	0	0	3.38E-11	0	3.48E-10	-8.94E-09
NHWD	[kg]	7.34E+00	1.31E-03	1.88E-02	4.83E-02	0	0	1.04E-03	0	3.37E+00	1.46E+01
RWD	[kg]	2.18E-03	1.49E-05	2.93E-05	2.42E-05	0	0	1.19E-05	0	2.78E-05	-8.80E-04
CRU	[kg]	0	0	0	0	0	0	0	0	0	0
MFR	[kg]	6.72E-01	0	2.25E+01	0	0	0	0	6.39E+01	0	0
MER	[kg]	0	0	0	0	0	0	0	0	0	0
EEE	[MJ]	0	0	3.50E+00	0	0	0	0	0	0	0
EET	[MJ]	0	0	6.29E+00	0	0	0	0	0	0	0
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, e.g., 1.95E+02. This number can also be written as: 1.95*10² or 195, while 1.12E-11 is the same as 1.12*10*11 or 0.0000000000112.										

Checked and approved by

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