

This appendix refers to the EPD MD-23104-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.

LCA results following EN15804:2012+A1:2013 – Granite/gneiss with flamed, picked, or honed finish:

ENVIRONMENTAL IMPACTS PER 1 ton												
Parameter	Unit	A1-A3	Scenario									
			Preparing for reuse					Recycling				
			C1	C2	C3	C4	D	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	2.49E+02	2.60E-01	8.28E+00	2.60E-01	0.00E+00	-2.37E+02	2.60E-01	4.14E+00	2.52E+00	0.00E+00	-1.85E+00
ODP	[kg CFC11-eq.]	2.06E-07	4.05E-14	1.29E-12	4.05E-14	0.00E+00	-1.96E-07	4.05E-14	6.44E-13	9.17E-12	0.00E+00	-1.47E-11
AP	[kg SO <sub>2</sub> -eq.]	2.35E+00	2.58E-03	8.84E-03	2.58E-03	0.00E+00	-2.24E+00	2.58E-03	4.42E-03	9.04E-03	0.00E+00	-7.37E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	5.26E-01	5.66E-04	1.93E-03	5.66E-04	0.00E+00	-5.00E-01	5.66E-04	9.66E-04	2.12E-03	0.00E+00	-1.32E-03
POCP	[kg ethene-eq.]	2.37E-01	2.73E-04	-8.72E-04	2.73E-04	0.00E+00	-2.25E-01	2.73E-04	-4.36E-04	1.02E-03	0.00E+00	-6.51E-04
ADPE	[kg Sb-eq.]	1.60E-04	1.74E-08	5.55E-07	1.74E-08	0.00E+00	-1.52E-04	1.74E-08	2.78E-07	2.77E-06	0.00E+00	-2.15E-07
ADPF	[MJ]	3.11E+03	3.54E+00	1.13E+02	3.54E+00	0.00E+00	-2.96E+03	3.54E+00	5.64E+01	4.83E+01	0.00E+00	-2.39E+01
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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.											

RESOURCE USE PER 1 ton												
Parameter	Unit	A1-A3	Scenario									
			Preparing for reuse					Recycling				
			C1	C2	C3	C4	D	C1	C2	C3	C4	D
PERE	[MJ]	2.85E+03	2.62E-01	8.34E+00	2.62E-01	0.00E+00	-2.71E+03	2.62E-01	4.17E+00	5.48E+00	0.00E+00	-9.76E+00
PERM	[MJ]	3.83E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.63E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	3.23E+03	2.62E-01	8.34E+00	2.62E-01	0.00E+00	-3.07E+03	2.62E-01	4.17E+00	5.48E+00	0.00E+00	-9.76E+00
PENRE	[MJ]	3.16E+03	3.61E+00	1.15E+02	3.61E+00	0.00E+00	-3.00E+03	3.61E+00	5.75E+01	4.98E+01	0.00E+00	-3.01E+01
PENRM	[MJ]	2.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	3.19E+03	3.61E+00	1.15E+02	3.61E+00	0.00E+00	-3.03E+03	3.61E+00	5.75E+01	4.98E+01	0.00E+00	-3.01E+01
SM	[kg]	1.99E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.89E+01	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
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
FW	[m <sup>3</sup> ]	9.80E-01	2.87E-04	9.13E-03	2.87E-04	0.00E+00	-9.31E-01	2.87E-04	4.56E-03	1.32E-02	0.00E+00	-8.93E-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 = Use of net fresh water											
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WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton												
Parameter	Unit	A1-A3	Scenario									
			Preparing for reuse					Recycling				
			C1	C2	C3	C4	D	C1	C2	C3	C4	D
HWD	[kg]	-1.53E-06	1.12E-11	3.56E-10	1.12E-11	0.00E+00	1.45E-06	1.12E-11	1.78E-10	-5.33E-10	0.00E+00	7.35E-10
NHWD	[kg]	1.40E+02	5.51E-04	1.75E-02	5.51E-04	0.00E+00	-1.33E+02	5.51E-04	8.76E-03	1.40E-02	0.00E+00	-4.04E+01
RWD	[kg]	1.04E-02	6.76E-06	2.15E-04	6.76E-06	0.00E+00	-9.92E-03	6.76E-06	1.08E-04	4.08E-04	0.00E+00	-2.07E-03
CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	9.50E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	7.07E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.72E+02	0.00E+00	0.00E+00	9.70E+02	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
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	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	6.91E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.56E+00	0.00E+00	0.00E+00	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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.											

Checked and approved by



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Third party verifier of MD-23104-EN



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