

This appendix refers to the EPD MD-23103-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 split 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 ₂ -eq.]	1.28E+02	2.60E-01	9.11E+00	2.60E-01	0.00E+00	-1.31E+02	2.60E-01	4.14E+00	2.52E+00	0.00E+00	-1.85E+00
ODP	[kg CFC11-eq.]	1.24E-07	4.05E-14	1.42E-12	4.05E-14	0.00E+00	-1.26E-07	4.05E-14	6.44E-13	9.17E-12	0.00E+00	-1.47E-11
AP	[kg SO ₂ -eq.]	1.34E+00	2.58E-03	9.72E-03	2.58E-03	0.00E+00	-1.37E+00	2.58E-03	4.42E-03	9.04E-03	0.00E+00	-7.37E-03
EP	[kg PO ₄ ³⁻ -eq.]	3.01E-01	5.66E-04	2.13E-03	5.66E-04	0.00E+00	-3.07E-01	5.66E-04	9.66E-04	2.12E-03	0.00E+00	-1.32E-03
POCP	[kg ethene-eq.]	1.31E-01	2.73E-04	-9.60E-04	2.73E-04	0.00E+00	-1.35E-01	2.73E-04	-4.36E-04	1.02E-03	0.00E+00	-6.51E-04
ADPE	[kg Sb-eq.]	8.12E-05	1.74E-08	6.11E-07	1.74E-08	0.00E+00	-8.41E-05	1.74E-08	2.78E-07	2.77E-06	0.00E+00	-2.15E-07
ADPF	[MJ]	1.73E+03	3.54E+00	1.24E+02	3.54E+00	0.00E+00	-1.74E+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 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ 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]	8.43E+02	2.62E-01	9.17E+00	2.62E-01	0.00E+00	-9.73E+02	2.62E-01	4.17E+00	5.48E+00	0.00E+00	-9.76E+00
PERM	[MJ]	9.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.18E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	9.38E+02	2.62E-01	9.17E+00	2.62E-01	0.00E+00	-1.09E+03	2.62E-01	4.17E+00	5.48E+00	0.00E+00	-9.76E+00
PENRE	[MJ]	1.75E+03	3.61E+00	1.26E+02	3.61E+00	0.00E+00	-1.75E+03	3.61E+00	5.75E+01	4.98E+01	0.00E+00	-3.01E+01
PENRM	[MJ]	2.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1.77E+03	3.61E+00	1.26E+02	3.61E+00	0.00E+00	-1.77E+03	3.61E+00	5.75E+01	4.98E+01	0.00E+00	-3.01E+01
SM	[kg]	5.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.36E+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
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 ³]	2.25E-01	2.87E-04	1.00E-02	2.87E-04	0.00E+00	-2.83E-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]	-5.85E-07	1.12E-11	3.92E-10	1.12E-11	0.00E+00	6.34E-07	1.12E-11	1.78E-10	-5.33E-10	0.00E+00	7.35E-10
NHWD	[kg]	7.65E-01	5.51E-04	1.93E-02	5.51E-04	0.00E+00	-1.39E+01	5.51E-04	8.76E-03	1.40E-02	0.00E+00	-4.04E+01
RWD	[kg]	4.55E-03	6.76E-06	2.37E-04	6.76E-06	0.00E+00	-4.75E-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	8.55E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	7.00E+01	0.00E+00	0.00E+00	9.50E+01	0.00E+00	-1.27E+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]	4.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.22E+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 ² 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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Third party verifier of MD-23103-EN



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