

This appendix refers to the EPD MD-23202-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 M ² | | | | | | | | | |
|--|---|-----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | -1.54E+00 | 6.03E-01 | 2.94E+00 | 0.00E+00 | 2.90E-01 | 5.57E+00 | 0.00E+00 | -2.75E+01 |
| ODP | [kg CFC11-eq.] | 4.01E-08 | 9.37E-14 | 1.94E-14 | 0.00E+00 | 4.53E-14 | 6.55E-09 | 0.00E+00 | -1.30E-11 |
| AP | [kg SO ₂ -eq.] | 4.87E-02 | 6.32E-04 | 2.61E-05 | 0.00E+00 | 3.23E-04 | 1.54E-03 | 0.00E+00 | -2.96E-02 |
| EP | [kg PO ₄ ³⁻ -eq.] | 1.25E-02 | 1.38E-04 | 5.26E-06 | 0.00E+00 | 7.12E-05 | 1.18E-03 | 0.00E+00 | -6.02E-03 |
| POCP | [kg ethene-eq.] | 3.67E-03 | 5.14E-05 | 2.06E-06 | 0.00E+00 | 2.49E-05 | 2.98E-04 | 0.00E+00 | -2.73E-03 |
| ADPE | [kg Sb-eq.] | 1.10E-05 | 4.04E-08 | 8.50E-10 | 0.00E+00 | 1.95E-08 | 2.59E-06 | 0.00E+00 | -2.04E-07 |
| ADPF | [MJ] | 7.06E+01 | 8.20E+00 | 1.73E-01 | 0.00E+00 | 3.96E+00 | 7.36E+00 | 0.00E+00 | -1.28E+02 |
| 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 0.0000000000112. | | | | | | | | |

| RESOURCE USE PER M ² | | | | | | | | | |
|---------------------------------|---|----------|----------|-----------|----------|----------|-----------|----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| PERE | [MJ] | 4.94E+00 | 6.06E-01 | 1.97E-02 | 0.00E+00 | 2.93E-01 | 3.62E-01 | 0.00E+00 | -7.92E+00 |
| PERM | [MJ] | 4.23E+01 | 0.00E+00 | -3.14E+01 | 0.00E+00 | 0.00E+00 | -1.09E+01 | 0.00E+00 | 0.00E+00 |
| PERT | [MJ] | 4.73E+01 | 6.06E-01 | -3.14E+01 | 0.00E+00 | 2.93E-01 | -1.05E+01 | 0.00E+00 | -7.92E+00 |
| PENRE | [MJ] | 7.78E+01 | 8.36E+00 | 1.82E-01 | 0.00E+00 | 4.04E+00 | 7.88E+00 | 0.00E+00 | -1.34E+02 |
| PENRM | [MJ] | 4.38E+01 | 0.00E+00 | -4.50E-01 | 0.00E+00 | 0.00E+00 | -4.34E+01 | 0.00E+00 | 0.00E+00 |
| PENRT | [MJ] | 1.22E+02 | 8.36E+00 | -2.68E-01 | 0.00E+00 | 4.04E+00 | -3.55E+01 | 0.00E+00 | -1.34E+02 |
| SM | [kg] | 3.63E+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 |
| 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 |
| FW | [m ³] | 6.00E-01 | 6.64E-04 | 3.50E-04 | 0.00E+00 | 3.21E-04 | 2.46E-03 | 0.00E+00 | -4.61E-02 |
| 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 | | | | | | | | |
| | 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 0.0000000000112. | | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER M ² | | | | | | | | | |
|--|---|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| HWD | [kg] | 6.89E-10 | 2.59E-11 | 1.16E-12 | 0.00E+00 | 1.25E-11 | 0.00E+00 | 0.00E+00 | -7.35E-09 |
| NHWD | [kg] | 1.73E-02 | 1.27E-03 | 4.06E-03 | 0.00E+00 | 6.16E-04 | 0.00E+00 | 0.00E+00 | -5.42E-02 |
| RWD | [kg] | 1.56E-04 | 1.56E-05 | 2.20E-06 | 0.00E+00 | 7.56E-06 | 0.00E+00 | 0.00E+00 | -1.95E-03 |
| CRU | [kg] | 2.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MFR | [kg] | 0.00E+00 | 0.00E+00 | 1.68E+00 | 0.00E+00 | 0.00E+00 | 5.00E+01 | 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 |
| EEE | [MJ] | 0.00E+00 | 0.00E+00 | 1.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| EET | [MJ] | 0.00E+00 | 0.00E+00 | 3.50E-01 | 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, 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 0.0000000000112. | | | | | | | | |

Checked and approved by



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Third party verifier of MD-23202-EN



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