

This appendix refers to the EPD MD-22107-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 VVX-I-R-FI | | | | | | | |
|--------------------------------------|---|----------|----------|-----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | C1 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | 7,32E+01 | 0,00E+00 | 6,07E-02 | 4,21E+00 | 5,79E-01 | -2,15E+01 |
| ODP | [kg CFC11-eq.] | 7,02E-10 | 0,00E+00 | 7,24E-15 | 2,48E-11 | 5,11E-14 | -1,66E-10 |
| AP | [kg SO ₂ -eq.] | 3,47E-01 | 0,00E+00 | 5,38E-05 | 2,52E-03 | 1,27E-04 | -7,00E-02 |
| EP | [kg PO ₄ ³⁻ -eq.] | 2,37E-02 | 0,00E+00 | 1,12E-05 | 5,21E-04 | 5,44E-04 | -4,55E-03 |
| POCP | [kg ethene-eq.] | 4,94E-02 | 0,00E+00 | -2,01E-06 | 1,93E-04 | 1,46E-04 | -8,63E-03 |
| ADPE | [kg Sb-eq.] | 7,77E-03 | 0,00E+00 | 6,32E-09 | 5,34E-07 | 2,12E-09 | -4,69E-04 |
| ADPF | [MJ] | 9,59E+02 | 0,00E+00 | 8,13E-01 | 1,30E+01 | 3,92E-01 | -2,35E+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, 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 VVX-I-R-FI | | | | | | | |
|-----------------------------|---|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | C1 | C2 | C3 | C4 | D |
| PERE | [MJ] | 2,72E+02 | 0,00E+00 | 5,70E-02 | 1,80E+01 | 3,69E-02 | -2,25E+01 |
| PERM | [MJ] | 8,34E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 3,55E+02 | 0,00E+00 | 5,70E-02 | 1,80E+01 | 3,69E-02 | -2,25E+01 |
| PENRE | [MJ] | 9,84E+02 | 0,00E+00 | 8,25E-01 | 1,59E+01 | 4,07E-01 | -2,37E+02 |
| PENRM | [MJ] | 7,18E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 1,06E+03 | 0,00E+00 | 8,25E-01 | 1,59E+01 | 4,07E-01 | -2,37E+02 |
| SM | [kg] | 1,12E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| RSF | [MJ] | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| NRSF | [MJ] | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| FW | [m ³] | 7,58E-01 | 0,00E+00 | 6,58E-05 | 1,53E-02 | 6,51E-05 | -2,11E-01 |
| 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 0,0000000000112. | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER VVX-I-R-FI | | | | | | | |
|--|---|----------|----------|----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | C1 | C2 | C3 | C4 | D |
| HWD | [kg] | 2,39E-03 | 0,00E+00 | 4,37E-12 | 2,27E-09 | 5,40E-11 | -8,08E-04 |
| NHWD | [kg] | 6,48E+00 | 0,00E+00 | 1,34E-04 | 4,28E-01 | 4,62E-01 | 1,45E+00 |
| RWD | [kg] | 3,27E-02 | 0,00E+00 | 1,53E-06 | 1,16E-03 | 5,07E-06 | -1,22E-03 |
| CRU | [kg] | 2,74E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 2,64E+00 | 0,00E+00 | 0,00E+00 | 2,09E+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 |
| EEE | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 3,22E+00 |
| EET | [MJ] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 5,68E+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. | | | | | | |

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