

This appendix refers to the EPD MD-23215-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 1m ³ of undried and unplanned Danish Construction Wood | | | | | | | |
|---|---|-----------|----------|-----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | A4 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | -1.30E+03 | 2.28E+01 | 1.86E+00 | 4.73E+00 | 7.54E-02 | -9.07E+02 |
| ODP | [kg CFC11-eq.] | -4.88E-05 | 3.68E-06 | -8.33E-08 | 3.07E-08 | 1.75E-09 | -3.59E-05 |
| AP | [kg SO ₂ -eq.] | -8.06E+00 | 1.31E-01 | -1.73E-02 | 4.01E-04 | 2.33E-04 | -5.59E+00 |
| EP | [kg PO ₄ ³⁻ -eq.] | -2.15E+00 | 1.61E-01 | -4.91E-03 | 8.18E-05 | 2.06E-04 | -1.58E+00 |
| POCP | [kg ethene-eq.] | -3.59E-01 | 6.36E-03 | -7.69E-04 | 1.97E-05 | 1.06E-05 | -2.50E-01 |
| ADPE | [kg Sb-eq.] | -9.26E-04 | 9.92E-05 | -1.63E-06 | 5.93E-07 | 1.75E-07 | -7.01E-04 |
| ADPF | [MJ] | -1.26E+04 | 4.07E+02 | -2.56E+01 | 2.48E+00 | 8.20E-01 | -8.87E+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, 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. | | | | | | |

| ENVIRONMENTAL IMPACTS PER 1m ³ of dried and planned Danish Construction Wood | | | | | | | |
|---|---|-----------|----------|-----------|----------|----------|-----------|
| Parameter | Unit | A1-A3 | A4 | C2 | C3 | C4 | D |
| GWP | [kg CO ₂ -eq.] | -1.43E+03 | 2.55E+01 | 1.86E+00 | 4.73E+00 | 7.54E-02 | -9.98E+02 |
| ODP | [kg CFC11-eq.] | -5.40E-05 | 3.75E-06 | -8.33E-08 | 3.07E-08 | 1.75E-09 | -3.95E-05 |
| AP | [kg SO ₂ -eq.] | -8.87E+00 | 1.40E-01 | -1.73E-02 | 4.01E-04 | 2.33E-04 | -6.15E+00 |
| EP | [kg PO ₄ ³⁻ -eq.] | -2.38E+00 | 1.69E-01 | -4.91E-03 | 8.18E-05 | 2.06E-04 | -1.74E+00 |
| POCP | [kg ethene-eq.] | -3.95E-01 | 6.74E-03 | -7.69E-04 | 1.97E-05 | 1.06E-05 | -2.75E-01 |
| ADPE | [kg Sb-eq.] | -1.02E-03 | 1.06E-04 | -1.63E-06 | 5.93E-07 | 1.75E-07 | -7.71E-04 |
| ADPF | [MJ] | -1.38E+04 | 4.37E+02 | -2.56E+01 | 2.48E+00 | 8.20E-01 | -9.76E+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, 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 1m ³ of undried and unplanned Danish Construction Wood | | | | | | | |
|--|---|-----------|-----------|-----------|-----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | C2 | C3 | C4 | D |
| PERE | [MJ] | -6.04E+01 | 5.66E+00 | -2.71E-02 | -6.13E-01 | 1.80E+03 | 8.32E+02 |
| PERM | [MJ] | 6.13E+02 | -1.22E+01 | 3.63E-02 | 9.12E-01 | -3.89E+03 | -1.80E+03 |
| PERT | [MJ] | 5.52E+02 | -6.58E+00 | 9.16E-03 | 2.98E-01 | -2.09E+03 | -9.65E+02 |
| PENRE | [MJ] | -4.47E-02 | 6.20E-04 | -1.07E-04 | -3.49E-05 | 2.29E-01 | 1.06E-01 |
| PENRM | [MJ] | 4.48E+02 | -2.85E+01 | 2.54E+00 | 1.11E+00 | -9.81E+03 | -4.53E+03 |
| PENRT | [MJ] | 4.48E+02 | -2.85E+01 | 2.54E+00 | 1.11E+00 | -9.81E+03 | -4.53E+03 |
| SM | [kg] | 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 |
| NRSF | [MJ] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| FW | [m ³] | 4.17E-01 | -4.13E-02 | 2.87E-04 | 2.92E-03 | -1.32E+01 | -6.09E+00 |
| 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. | | | | | | |

| RESOURCE USE PER 1m ³ of dried and planned Danish Construction Wood | | | | | | | |
|--|---|-----------|-----------|-----------|-----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | C2 | C3 | C4 | D |
| PERE | [MJ] | -8.27E+01 | 5.66E+00 | -2.71E-02 | -6.13E-01 | 1.98E+03 | 9.16E+02 |
| PERM | [MJ] | 6.46E+02 | -1.22E+01 | 3.63E-02 | 9.12E-01 | -4.28E+03 | -1.98E+03 |
| PERT | [MJ] | 5.63E+02 | -6.58E+00 | 9.16E-03 | 2.98E-01 | -2.30E+03 | -1.06E+03 |
| PENRE | [MJ] | -4.60E-02 | 6.20E-04 | -1.07E-04 | -3.49E-05 | 2.52E-01 | 1.17E-01 |
| PENRM | [MJ] | 4.88E+02 | -2.85E+01 | 2.54E+00 | 1.11E+00 | -1.08E+04 | -4.99E+03 |
| PENRT | [MJ] | 4.88E+02 | -2.85E+01 | 2.54E+00 | 1.11E+00 | -1.08E+04 | -4.99E+03 |
| SM | [kg] | 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 |
| NRSF | [MJ] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| FW | [m ³] | 5.23E-01 | -4.13E-02 | 2.87E-04 | 2.92E-03 | -1.45E+01 | -6.70E+00 |
| 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 1m³ of undried and unplanned Danish Construction Wood

| Parameter | Unit | A1-A3 | A4 | C2 | C3 | C4 | D |
|-----------|------|----------|-----------|----------|----------|-----------|-----------|
| HWD | [kg] | 8.34E-04 | -5.15E-06 | 6.62E-06 | 5.46E-07 | -3.67E-03 | -1.70E-03 |
| NHWD | [kg] | 8.32E+00 | -3.98E-03 | 1.33E-01 | 6.97E-03 | -4.22E+01 | -1.95E+01 |
| RWD | [kg] | 2.37E-03 | -8.23E-05 | 1.71E-05 | 4.89E-06 | -3.14E-02 | -1.45E-02 |

| | | | | | | | |
|-----|------|----------|----------|----------|----------|----------|----------|
| CRU | [kg] | 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 | 0.00E+00 | 0.00E+00 | 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 | 0.00E+00 |
| EET | [MJ] | 0.00E+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*10² or 195, while 1,12E-11 is the same as 1,12*10⁻¹¹ or 0,0000000000112.

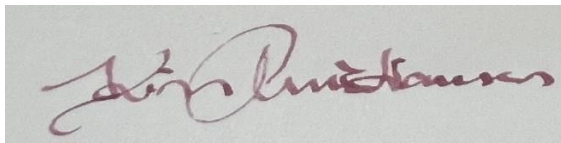
WASTE CATEGORIES AND OUTPUT FLOWS PER 1m³ of dried and planned Danish Construction Wood

| Parameter | Unit | A1-A3 | A4 | C2 | C3 | C4 | D |
|-----------|------|----------|-----------|----------|----------|-----------|-----------|
| HWD | [kg] | 8.53E-04 | -5.15E-06 | 6.62E-06 | 5.46E-07 | -4.04E-03 | -1.87E-03 |
| NHWD | [kg] | 8.57E+00 | -3.98E-03 | 1.33E-01 | 6.97E-03 | -4.64E+01 | -2.14E+01 |
| RWD | [kg] | 2.55E-03 | -8.23E-05 | 1.71E-05 | 4.89E-06 | -3.45E-02 | -1.59E-02 |

| | | | | | | | |
|-----|------|----------|----------|----------|----------|----------|----------|
| CRU | [kg] | 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 | 0.00E+00 | 0.00E+00 | 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 | 0.00E+00 |
| EET | [MJ] | 0.00E+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*10² or 195, while 1,12E-11 is the same as 1,12*10⁻¹¹ or 0,0000000000112.

Checked and approved by



Kim Christiansen

Third party verifier of MD-23125-EN_rev2



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