

This appendix refers to the EPD MD-25046-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 m2 Graphic wool 1100 LWT | | | | | | | | | | | | | |
|--|---|----------|-----------|----------|----|----------|-------|----|-----------|-----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| GWP | kg CO ₂ -eq. | 1,09E+01 | 1,64E-01 | 7,57E-01 | 0 | 1,01E-01 | 0 | 0 | 6,58E-03 | 2,48E+00 | 1,90E+00 | -8,89E-01 | -7,46E-02 |
| ODP | kg CFC11-eq. | 1,85E-09 | 2,89E-14 | 2,38E-10 | 0 | 2,44E-12 | 0 | 0 | 1,16E-15 | 4,83E-09 | 2,64E-13 | -8,20E-12 | -7,65E-13 |
| AP | kg SO ₂ -eq. | 4,13E-02 | 1,77E-04 | 2,12E-03 | 0 | 1,79E-04 | 0 | 0 | 7,06E-06 | 1,50E-03 | 4,52E-04 | -1,33E-03 | -1,04E-04 |
| EP | kg PO ₄ ³⁻ -eq. | 1,18E-02 | 4,10E-05 | 6,01E-04 | 0 | 3,43E-05 | 0 | 0 | 1,64E-06 | 3,36E-04 | 2,79E-03 | -2,40E-04 | -1,84E-05 |
| POCP | kg ethene-eq. | 2,19E-03 | -4,18E-06 | 1,13E-04 | 0 | 2,79E-05 | 0 | 0 | -1,67E-07 | 8,70E-05 | 4,73E-04 | -1,54E-04 | -1,18E-05 |
| ADPE | kg Sb-eq. | 2,17E-06 | 1,45E-08 | 8,42E-08 | 0 | 3,57E-08 | 0 | 0 | 5,78E-10 | -8,20E-07 | 4,89E-09 | -9,55E-08 | -8,19E-09 |
| ADPF | MJ | 1,18E+02 | 2,16E+00 | 5,97E+00 | 0 | 1,38E+00 | 0 | 0 | 8,62E-02 | 1,02E+00 | 1,61E+00 | -1,03E+01 | -8,00E-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 0,000000000112. | | | | | | | | | | | | |

| RESOURCE USE PER m2 Graphic wool 1100 LWT | | | | | | | | | | | | | |
|---|---|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| PERE | [MJ] | 1,80E+02 | 1,89E-01 | 9,03E+00 | 0 | 1,47E+00 | 0 | 0 | 7,56E-03 | 8,73E+00 | 1,75E-01 | -9,95E+00 | -1,61E+00 |
| PERM | [MJ] | 9,92E+00 | 0,00E+00 | 4,96E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 8,73E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 1,90E+02 | 1,89E-01 | 9,52E+00 | 0 | 1,47E+00 | 0 | 0 | 7,56E-03 | 1,27E-03 | 1,75E-01 | -9,95E+00 | -1,61E+00 |
| PENRE | [MJ] | 1,04E+02 | 2,20E+00 | 5,32E+00 | 0 | 2,28E+00 | 0 | 0 | 8,78E-02 | 3,45E+01 | 1,71E+00 | -1,36E+01 | -2,20E+00 |
| PENRM | [MJ] | 2,49E+01 | 0,00E+00 | 1,24E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 3,33E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 1,29E+02 | 2,20E+00 | 6,57E+00 | 0 | 2,28E+00 | 0 | 0 | 8,78E-02 | 1,19E+00 | 1,71E+00 | -1,36E+01 | -2,20E+00 |
| SM | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 2,93E-01 | 2,11E-04 | 1,52E-02 | 0 | 1,20E-03 | 0 | 0 | 8,43E-06 | 6,95E-03 | 2,65E-04 | -5,42E-03 | -9,25E-04 |
| 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 | | | | | | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER m2 Graphic wool 1100 LWT | | | | | | | | | | | | | |
|--|--|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| HWD | [kg] | 1,79E-05 | 8,41E-11 | 8,96E-07 | 0 | 7,12E-06 | 0 | 0 | 3,36E-12 | 0,00E+00 | 2,99E-10 | -9,32E-09 | -1,74E-09 |
| NHWD | [kg] | 3,78E-01 | 3,58E-04 | 3,15E-02 | 0 | 1,99E-03 | 0 | 0 | 1,43E-05 | 0,00E+00 | 1,21E+00 | -3,30E-02 | -4,87E-03 |
| RWD | [kg] | 3,54E-03 | 4,00E-06 | 1,81E-04 | 0 | 3,09E-04 | 0 | 0 | 1,60E-07 | 5,86E-05 | 2,09E-05 | -1,03E-03 | -1,92E-04 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 1,85E-02 | 0,00E+00 | 9,23E-04 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 1,18E-01 | 0,00E+00 | 3,48E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 2,97E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 1,44E-01 | 0,00E+00 | 7,24E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 8,81E+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; EE = Exported energy | | | | | | | | | | | | |

| ENVIRONMENTAL IMPACTS PER m2 Graphic wool 1300 LWT | | | | | | | | | | | | | |
|--|---|----------|-----------|----------|----|----------|-------|----|-----------|-----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| GWP | kg CO ₂ -eq. | 1,16E+01 | 1,83E-01 | 7,94E-01 | 0 | 1,01E-01 | 0 | 0 | 7,33E-03 | 2,77E+00 | 2,12E+00 | -9,82E-01 | -7,46E-02 |
| ODP | kg CFC11-eq. | 1,86E-09 | 3,22E-14 | 2,38E-10 | 0 | 2,44E-12 | 0 | 0 | 1,29E-15 | 5,38E-09 | 2,94E-13 | -8,96E-12 | -7,65E-13 |
| AP | kg SO ₂ -eq. | 4,45E-02 | 1,97E-04 | 2,28E-03 | 0 | 1,79E-04 | 0 | 0 | 7,87E-06 | 1,67E-03 | 5,03E-04 | -1,46E-03 | -1,04E-04 |
| EP | kg PO ₄ ³⁻ -eq. | 1,27E-02 | 4,56E-05 | 6,49E-04 | 0 | 3,43E-05 | 0 | 0 | 1,83E-06 | 3,74E-04 | 3,11E-03 | -2,63E-04 | -1,84E-05 |
| POCP | kg ethene-eq. | 2,31E-03 | -4,65E-06 | 1,19E-04 | 0 | 2,79E-05 | 0 | 0 | -1,86E-07 | 9,69E-05 | 5,27E-04 | -1,69E-04 | -1,18E-05 |
| ADPE | kg Sb-eq. | 2,28E-06 | 1,61E-08 | 8,96E-08 | 0 | 3,57E-08 | 0 | 0 | 6,44E-10 | -9,14E-07 | 5,45E-09 | -1,05E-07 | -8,19E-09 |
| ADPF | MJ | 1,23E+02 | 2,40E+00 | 6,22E+00 | 0 | 1,38E+00 | 0 | 0 | 9,60E-02 | 1,14E+00 | 1,79E+00 | -1,13E+01 | -8,00E-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 m2 Graphic wool 1300 LWT | | | | | | | | | | | | | |
|---|---|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| PERE | [MJ] | 1,92E+02 | 2,11E-01 | 9,63E+00 | 0 | 1,47E+00 | 0 | 0 | 8,43E-03 | 9,58E+00 | 1,94E-01 | -1,09E+01 | -1,61E+00 |
| PERM | [MJ] | 1,10E+01 | 0,00E+00 | 5,52E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 9,58E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 2,03E+02 | 2,11E-01 | 1,02E+01 | 0 | 1,47E+00 | 0 | 0 | 8,43E-03 | 1,42E-03 | 1,94E-01 | -1,09E+01 | -1,61E+00 |
| PENRE | [MJ] | 1,10E+02 | 2,45E+00 | 5,62E+00 | 0 | 2,28E+00 | 0 | 0 | 9,78E-02 | 3,62E+01 | 1,90E+00 | -1,49E+01 | -2,20E+00 |
| PENRM | [MJ] | 2,45E+01 | 0,00E+00 | 1,22E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 3,49E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 1,35E+02 | 2,45E+00 | 6,84E+00 | 0 | 2,28E+00 | 0 | 0 | 9,78E-02 | 1,33E+00 | 1,90E+00 | -1,49E+01 | -2,20E+00 |
| SM | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 3,18E-01 | 2,35E-04 | 1,64E-02 | 0 | 1,20E-03 | 0 | 0 | 9,39E-06 | 7,75E-03 | 2,96E-04 | -5,93E-03 | -9,25E-04 |
| 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 | | | | | | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER m2 Graphic wool 1300 LWT | | | | | | | | | | | | | |
|--|--|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| HWD | [kg] | 1,95E-05 | 9,36E-11 | 9,76E-07 | 0 | 7,12E-06 | 0 | 0 | 3,75E-12 | 0,00E+00 | 3,34E-10 | -1,02E-08 | -1,74E-09 |
| NHWD | [kg] | 4,00E-01 | 3,99E-04 | 3,27E-02 | 0 | 1,99E-03 | 0 | 0 | 1,60E-05 | 0,00E+00 | 1,35E+00 | -3,63E-02 | -4,87E-03 |
| RWD | [kg] | 3,73E-03 | 4,45E-06 | 1,90E-04 | 0 | 3,09E-04 | 0 | 0 | 1,78E-07 | 6,53E-05 | 2,33E-05 | -1,12E-03 | -1,92E-04 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 1,85E-02 | 0,00E+00 | 9,23E-04 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 1,14E-01 | 0,00E+00 | 3,47E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 3,30E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 1,39E-01 | 0,00E+00 | 7,23E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 9,82E+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; EE = Exported energy | | | | | | | | | | | | |

| ENVIRONMENTAL IMPACTS PER m2 Graphic wool 1500 LWT | | | | | | | | | | | | | |
|--|---|----------|-----------|----------|----|----------|-------|----|-----------|-----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| GWP | kg CO ₂ -eq. | 1,30E+01 | 2,03E-01 | 8,62E-01 | 0 | 1,01E-01 | 0 | 0 | 8,12E-03 | 3,06E+00 | 2,35E+00 | -1,08E+00 | -7,46E-02 |
| ODP | kg CFC11-eq. | 1,87E-09 | 3,57E-14 | 2,38E-10 | 0 | 2,44E-12 | 0 | 0 | 1,43E-15 | 5,96E-09 | 3,26E-13 | -9,76E-12 | -7,65E-13 |
| AP | kg SO ₂ -eq. | 5,03E-02 | 2,18E-04 | 2,57E-03 | 0 | 1,79E-04 | 0 | 0 | 8,72E-06 | 1,85E-03 | 5,57E-04 | -1,59E-03 | -1,04E-04 |
| EP | kg PO ₄ ³⁻ -eq. | 1,44E-02 | 5,06E-05 | 7,33E-04 | 0 | 3,43E-05 | 0 | 0 | 2,02E-06 | 4,15E-04 | 3,44E-03 | -2,87E-04 | -1,84E-05 |
| POCP | kg ethene-eq. | 2,54E-03 | -5,16E-06 | 1,31E-04 | 0 | 2,79E-05 | 0 | 0 | -2,06E-07 | 1,07E-04 | 5,83E-04 | -1,85E-04 | -1,18E-05 |
| ADPE | kg Sb-eq. | 2,49E-06 | 1,78E-08 | 1,00E-07 | 0 | 3,57E-08 | 0 | 0 | 7,14E-10 | -1,01E-06 | 6,04E-09 | -1,14E-07 | -8,19E-09 |
| ADPF | MJ | 1,33E+02 | 2,66E+00 | 6,72E+00 | 0 | 1,38E+00 | 0 | 0 | 1,06E-01 | 1,26E+00 | 1,98E+00 | -1,23E+01 | -8,00E-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 0,000000000112. | | | | | | | | | | | | |

| RESOURCE USE PER m2 Graphic wool 1500 LWT | | | | | | | | | | | | | |
|---|---|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| PERE | [MJ] | 2,16E+02 | 2,33E-01 | 1,08E+01 | 0 | 1,47E+00 | 0 | 0 | 9,33E-03 | 1,05E+01 | 2,15E-01 | -1,19E+01 | -1,61E+00 |
| PERM | [MJ] | 1,22E+01 | 0,00E+00 | 6,08E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 1,05E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 2,28E+02 | 2,33E-01 | 1,14E+01 | 0 | 1,47E+00 | 0 | 0 | 9,33E-03 | 1,57E-03 | 2,15E-01 | -1,19E+01 | -1,61E+00 |
| PENRE | [MJ] | 1,22E+02 | 2,71E+00 | 6,18E+00 | 0 | 2,28E+00 | 0 | 0 | 1,08E-01 | 3,79E+01 | 2,11E+00 | -1,62E+01 | -2,20E+00 |
| PENRM | [MJ] | 2,45E+01 | 0,00E+00 | 1,22E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 3,65E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 1,46E+02 | 2,71E+00 | 7,40E+00 | 0 | 2,28E+00 | 0 | 0 | 1,08E-01 | 1,47E+00 | 2,11E+00 | -1,62E+01 | -2,20E+00 |
| SM | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 3,61E-01 | 2,60E-04 | 1,86E-02 | 0 | 1,20E-03 | 0 | 0 | 1,04E-05 | 8,58E-03 | 3,28E-04 | -6,47E-03 | -9,25E-04 |
| 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 | | | | | | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER m2 Graphic wool 1500 LWT | | | | | | | | | | | | | |
|--|--|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| HWD | [kg] | 2,23E-05 | 1,04E-10 | 1,11E-06 | 0 | 7,12E-06 | 0 | 0 | 4,15E-12 | 0,00E+00 | 3,70E-10 | -1,11E-08 | -1,74E-09 |
| NHWD | [kg] | 4,44E-01 | 4,42E-04 | 3,49E-02 | 0 | 1,99E-03 | 0 | 0 | 1,77E-05 | 0,00E+00 | 1,49E+00 | -3,96E-02 | -4,87E-03 |
| RWD | [kg] | 4,10E-03 | 4,93E-06 | 2,09E-04 | 0 | 3,09E-04 | 0 | 0 | 1,97E-07 | 7,24E-05 | 2,58E-05 | -1,22E-03 | -1,92E-04 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 1,85E-02 | 0,00E+00 | 9,23E-04 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 1,14E-01 | 0,00E+00 | 3,47E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 3,66E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 1,39E-01 | 0,00E+00 | 7,23E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 1,09E+01 | 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; EE = Exported energy | | | | | | | | | | | | |

| ENVIRONMENTAL IMPACTS PER m2 Graphic wool 1800 LWT | | | | | | | | | | | | | |
|--|---|----------|-----------|----------|----|----------|-------|----|-----------|-----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| GWP | kg CO ₂ -eq. | 1,50E+01 | 2,32E-01 | 9,64E-01 | 0 | 1,01E-01 | 0 | 0 | 9,30E-03 | 3,51E+00 | 2,69E+00 | -1,23E+00 | -7,46E-02 |
| ODP | kg CFC11-eq. | 1,88E-09 | 4,09E-14 | 2,39E-10 | 0 | 2,44E-12 | 0 | 0 | 1,63E-15 | 6,83E-09 | 3,73E-13 | -1,10E-11 | -7,65E-13 |
| AP | kg SO ₂ -eq. | 5,90E-02 | 2,50E-04 | 3,00E-03 | 0 | 1,79E-04 | 0 | 0 | 9,99E-06 | 2,12E-03 | 6,39E-04 | -1,79E-03 | -1,04E-04 |
| EP | kg PO ₄ ³⁻ -eq. | 1,69E-02 | 5,79E-05 | 8,59E-04 | 0 | 3,43E-05 | 0 | 0 | 2,32E-06 | 4,75E-04 | 3,95E-03 | -3,24E-04 | -1,84E-05 |
| POCP | kg ethene-eq. | 2,90E-03 | -5,91E-06 | 1,49E-04 | 0 | 2,79E-05 | 0 | 0 | -2,36E-07 | 1,23E-04 | 6,69E-04 | -2,08E-04 | -1,18E-05 |
| ADPE | kg Sb-eq. | 2,81E-06 | 2,05E-08 | 1,16E-07 | 0 | 3,57E-08 | 0 | 0 | 8,18E-10 | -1,16E-06 | 6,92E-09 | -1,28E-07 | -8,19E-09 |
| ADPF | MJ | 1,48E+02 | 3,05E+00 | 7,47E+00 | 0 | 1,38E+00 | 0 | 0 | 1,22E-01 | 1,45E+00 | 2,27E+00 | -1,39E+01 | -8,00E-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 m2 Graphic wool 1800 LWT | | | | | | | | | | | | | |
|---|---|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| PERE | [MJ] | 2,51E+02 | 2,67E-01 | 1,26E+01 | 0 | 1,47E+00 | 0 | 0 | 1,07E-02 | 1,18E+01 | 2,47E-01 | -1,34E+01 | -1,61E+00 |
| PERM | [MJ] | 1,38E+01 | 0,00E+00 | 6,92E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 1,18E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PERT | [MJ] | 2,65E+02 | 2,67E-01 | 1,33E+01 | 0 | 1,47E+00 | 0 | 0 | 1,07E-02 | 1,80E-03 | 2,47E-01 | -1,34E+01 | -1,61E+00 |
| PENRE | [MJ] | 1,38E+02 | 3,10E+00 | 7,02E+00 | 0 | 2,28E+00 | 0 | 0 | 1,24E-01 | 4,05E+01 | 2,42E+00 | -1,83E+01 | -2,20E+00 |
| PENRM | [MJ] | 2,45E+01 | 0,00E+00 | 1,22E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 3,89E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| PENRT | [MJ] | 1,63E+02 | 3,10E+00 | 8,24E+00 | 0 | 2,28E+00 | 0 | 0 | 1,24E-01 | 1,68E+00 | 2,42E+00 | -1,83E+01 | -2,20E+00 |
| SM | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| FW | [m ³] | 4,26E-01 | 2,98E-04 | 2,18E-02 | 0 | 1,20E-03 | 0 | 0 | 1,19E-05 | 9,83E-03 | 3,75E-04 | -7,28E-03 | -9,25E-04 |
| 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 | | | | | | | | | | | | |

| WASTE CATEGORIES AND OUTPUT FLOWS PER m2 Graphic wool 1800 LWT | | | | | | | | | | | | | |
|--|--|----------|----------|----------|----|----------|-------|----|----------|----------|----------|-----------|-----------|
| Parameter | Unit | A1-A3 | A4 | A5 | B1 | B2 | B3-B7 | C1 | C2 | C3/1 | C4/2 | D/1 | D/2 |
| HWD | [kg] | 2,64E-05 | 1,19E-10 | 1,32E-06 | 0 | 7,12E-06 | 0 | 0 | 4,75E-12 | 0,00E+00 | 4,23E-10 | -1,25E-08 | -1,74E-09 |
| NHWD | [kg] | 5,10E-01 | 5,07E-04 | 3,81E-02 | 0 | 1,99E-03 | 0 | 0 | 2,03E-05 | 0,00E+00 | 1,71E+00 | -4,47E-02 | -4,87E-03 |
| RWD | [kg] | 4,65E-03 | 5,65E-06 | 2,36E-04 | 0 | 3,09E-04 | 0 | 0 | 2,26E-07 | 8,29E-05 | 2,96E-05 | -1,37E-03 | -1,92E-04 |
| CRU | [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| MFR | [kg] | 1,85E-02 | 0,00E+00 | 9,23E-04 | 0 | 0,00E+00 | 0 | 0 | 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 | 0,00E+00 | 0 | 0 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EEE | [MJ] | 1,14E-01 | 0,00E+00 | 3,47E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 4,19E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| EET | [MJ] | 1,39E-01 | 0,00E+00 | 7,23E-01 | 0 | 0,00E+00 | 0 | 0 | 0,00E+00 | 1,25E+01 | 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; EE = Exported energy | | | | | | | | | | | | |

[Mirko Miseljic]
Third party verifier of MD-25046-EN

Checked and approved by

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