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This appendix refers to the EPD MD-25030-EN. 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.

RT512

| ENVIRONMENTAL IMPACTS PER TONNES RT512 |   |          |          |          |          |          |          |          |          |           |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                              | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP                                    | [kg CO <sub>2</sub> eq.]  | 1,42E+02 | 5,30E+00 | 6,91E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,09E+00 |
| OPD                                    | [kg CFC 11 eq.]   | 1,91E-06 | 8,81E-08 | 1,23E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,05E-08 |
| AP                                     | [kg SO <sub>2</sub> eq.]  | 5,34E-01 | 1,09E-02 | 2,66E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,16E-02 |
| EP                                     | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 6,68E-02 | 2,69E-03 | 6,15E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,20E-03 |
| POCP                                   | [kg ethene-eq.]   | 1,71E-02 | 7,83E-04 | 1,18E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,21E-03 |
| ADPE                                   | [kg Sb-eq.]   | 4,35E-04 | 1,49E-05 | 1,63E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,50E-05 |
| ADPF                                   | [MJ]  | 6,49E+02 | 7,80E+01 | 1,05E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,37E+01 |
| Caption                                | GWP = Global warming potential; OPD = 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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT512 |   |          |          |           |          |          |          |          |          |           |
|-------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                     | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                          | [MJ]  | 8,48E+02 | 1,26E+00 | 2,92E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -3,75E+01 |
| PERM                          | [MJ]  | 3,63E+01 | 0,00E+00 | -3,63E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                          | [MJ]  | 8,84E+02 | 1,26E+00 | -3,60E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -3,75E+01 |
| PENRE                         | [MJ]  | 6,41E+02 | 7,96E+01 | 1,09E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,10E+01 |
| PENRM                         | [MJ]  | 2,54E+01 | 0,00E+00 | -2,54E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                         | [MJ]  | 6,66E+02 | 7,96E+01 | -1,46E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,10E+01 |
| SM                            | [kg]  | 6,55E-01 | 3,44E-02 | 4,57E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,29E-01 |
| RSF                           | [MJ]  | 2,42E+02 | 4,34E-04 | 6,16E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,19E-04 |
| 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  |
| FW                            | [m <sup>3</sup> ]   | 4,93E-01 | 1,19E-02 | 6,81E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,73E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                               | The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |           |          |          |          |          |          |           |

| WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT512 |      |          |          |          |          |          |          |          |          |           |
|--|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter  | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD  | [kg] | 2,17E+00 | 1,16E-01 | 3,13E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -4,92E-01 |
| NHWD   | [kg] | 7,14E+01 | 2,32E+00 | 3,25E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -9,84E+00 |
| RWD  | [kg] | 2,42E-04 | 2,39E-05 | 5,74E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,14E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 2,57E+01 | 6,04E-04 | 1,20E+00 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,08E-03 |
| MER     | [kg]  | 1,25E-01 | 3,48E-06 | 2,13E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,28E-06 |
| EE      | [MJ]  | 1,65E-01 | 1,19E-02 | 9,51E+00 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,31E-01 |
| 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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

**RT510**

| ENVIRONMENTAL IMPACTS PER TONNES RT510 |   |          |          |          |          |          |          |          |          |           |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                              | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP                                    | [kg CO <sub>2</sub> eq.]  | 1,04E+02 | 5,28E+00 | 7,76E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,38E+00 |
| OPD                                    | [kg CFC 11 eq.]   | 2,50E-06 | 8,77E-08 | 1,24E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,80E-08 |
| AP                                     | [kg SO <sub>2</sub> eq.]  | 9,32E-01 | 1,08E-02 | 2,82E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,28E-02 |
| EP                                     | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 9,31E-02 | 2,68E-03 | 6,47E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,85E-03 |
| POCP                                   | [kg ethene-eq.]   | 2,59E-02 | 7,81E-04 | 1,20E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,28E-03 |
| ADPE                                   | [kg Sb-eq.]   | 4,99E-04 | 1,48E-05 | 1,65E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,67E-05 |
| ADPF                                   | [MJ]  | 8,03E+02 | 7,77E+01 | 1,05E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,68E+01 |
| Caption                                | GWP = Global warming potential; OPD = 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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT510 |   |          |          |           |          |          |          |          |          |           |
|-------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                     | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                          | [MJ]  | 9,25E+02 | 1,26E+00 | 2,79E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,47E+01 |
| PERM                          | [MJ]  | 3,54E+01 | 0,00E+00 | -3,54E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                          | [MJ]  | 9,60E+02 | 1,26E+00 | -3,51E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,47E+01 |
| PENRE                         | [MJ]  | 7,86E+02 | 7,93E+01 | 1,09E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,50E+01 |
| PENRM                         | [MJ]  | 3,84E+01 | 0,00E+00 | -3,84E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                         | [MJ]  | 8,25E+02 | 7,93E+01 | -2,75E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,50E+01 |
| SM                            | [kg]  | 7,05E-01 | 3,43E-02 | 4,71E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,31E-01 |
| RSF                           | [MJ]  | 4,23E+01 | 4,32E-04 | 6,40E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,28E-04 |
| 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  |
| FW                            | [m <sup>3</sup> ]   | 4,97E-01 | 1,19E-02 | 7,35E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,86E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                               | 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 TONNES RT510 |      |          |          |          |          |          |          |          |          |           |
|--|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter  | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD  | [kg] | 2,59E+00 | 1,15E-01 | 4,15E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -5,15E-01 |
| NHWD   | [kg] | 1,08E+02 | 2,31E+00 | 3,30E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -1,05E+01 |
| RWD  | [kg] | 3,07E-04 | 2,38E-05 | 5,27E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,29E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 4,71E+01 | 6,02E-04 | 9,70E-01 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,83E-03 |
| MER     | [kg]  | 3,53E-01 | 3,47E-06 | 2,60E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,39E-06 |
| EE      | [MJ]  | 1,96E-01 | 1,19E-02 | 1,27E+01 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,67E-01 |
| 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.   |          |          |          |          |          |          |          |          |           |

RT406

| ENVIRONMENTAL IMPACTS PER TONNES RT406 |   |          |          |          |          |          |          |          |          |           |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                              | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP                                    | [kg CO <sub>2</sub> eq.]  | 5,64E+01 | 5,26E+00 | 7,20E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,33E+00 |
| OPD                                    | [kg CFC 11 eq.]   | 1,57E-06 | 8,75E-08 | 1,23E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,67E-08 |
| AP                                     | [kg SO <sub>2</sub> eq.]  | 8,49E-01 | 1,08E-02 | 2,77E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,26E-02 |
| EP                                     | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 7,25E-02 | 2,67E-03 | 6,28E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,74E-03 |
| POCP                                   | [kg ethene-eq.]   | 1,79E-02 | 7,78E-04 | 1,18E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,27E-03 |
| ADPE                                   | [kg Sb-eq.]   | 2,25E-04 | 1,48E-05 | 1,62E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,64E-05 |
| ADPF                                   | [MJ]  | 4,78E+02 | 7,75E+01 | 1,04E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,63E+01 |
| Caption                                | GWP = Global warming potential; OPD = 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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT406 |   |          |          |           |          |          |          |          |          |           |
|-------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                     | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                          | [MJ]  | 3,25E+02 | 1,25E+00 | 2,65E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,35E+01 |
| PERM                          | [MJ]  | 3,07E+01 | 0,00E+00 | -3,07E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                          | [MJ]  | 3,56E+02 | 1,25E+00 | -3,04E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,35E+01 |
| PENRE                         | [MJ]  | 4,55E+02 | 7,91E+01 | 1,07E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,44E+01 |
| PENRM                         | [MJ]  | 3,84E+01 | 0,00E+00 | -3,84E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                         | [MJ]  | 4,93E+02 | 7,91E+01 | -2,77E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,44E+01 |
| SM                            | [kg]  | 1,76E+02 | 3,42E-02 | 4,59E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,31E-01 |
| RSF                           | [MJ]  | 4,26E+01 | 4,31E-04 | 6,33E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,27E-04 |
| 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  |
| FW                            | [m <sup>3</sup> ]   | 3,65E-01 | 1,19E-02 | 7,26E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,84E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                               | 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 TONNES RT406 |      |          |          |          |          |          |          |          |          |           |
|--|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter  | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD  | [kg] | 1,40E+00 | 1,15E-01 | 4,03E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -5,11E-01 |
| NHWD   | [kg] | 8,98E+01 | 2,30E+00 | 3,28E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -1,04E+01 |
| RWD  | [kg] | 2,29E-04 | 2,38E-05 | 4,86E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,26E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 4,69E+01 | 6,00E-04 | 8,15E-01 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,71E-03 |
| MER     | [kg]  | 3,53E-01 | 3,46E-06 | 2,41E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,37E-06 |
| EE      | [MJ]  | 1,53E-01 | 1,19E-02 | 1,22E+01 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,61E-01 |
| 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.   |          |          |          |          |          |          |          |          |           |

**RT392-HAM**

| ENVIRONMENTAL IMPACTS PER TONNES RT392-HAM |   |          |          |          |          |          |          |          |          |           |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                                  | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP  | [kg CO <sub>2</sub> eq.]  | 6,00E+01 | 5,29E+00 | 7,98E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,40E+00 |
| OPD  | [kg CFC 11 eq.]   | 1,60E-06 | 8,79E-08 | 1,25E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,85E-08 |
| AP   | [kg SO <sub>2</sub> eq.]  | 8,82E-01 | 1,08E-02 | 2,84E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,29E-02 |
| EP   | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 7,94E-02 | 2,68E-03 | 6,55E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,89E-03 |
| POCP                                       | [kg ethene-eq.]   | 1,93E-02 | 7,81E-04 | 1,21E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,28E-03 |
| ADPE                                       | [kg Sb-eq.]   | 2,96E-04 | 1,48E-05 | 1,66E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,68E-05 |
| ADPF                                       | [MJ]  | 5,38E+02 | 7,78E+01 | 1,06E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,70E+01 |
| Caption                                    | GWP = Global warming potential; OPD = 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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT392-HAM |   |          |          |           |          |          |          |          |          |           |
|-----------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                         | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                              | [MJ]  | 3,32E+02 | 1,26E+00 | 2,85E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,52E+01 |
| PERM                              | [MJ]  | 3,72E+01 | 0,00E+00 | -3,72E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                              | [MJ]  | 3,69E+02 | 1,26E+00 | -3,69E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,52E+01 |
| PENRE                             | [MJ]  | 5,19E+02 | 7,94E+01 | 1,09E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,53E+01 |
| PENRM                             | [MJ]  | 3,84E+01 | 0,00E+00 | -3,84E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                             | [MJ]  | 5,57E+02 | 7,94E+01 | -2,74E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,53E+01 |
| SM                                | [kg]  | 2,34E+02 | 3,43E-02 | 4,76E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,31E-01 |
| RSF                               | [MJ]  | 1,11E+00 | 4,33E-04 | 6,42E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,29E-04 |
| 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  |
| FW                                | [m <sup>3</sup> ]   | 3,80E-01 | 1,19E-02 | 7,39E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,87E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                                   | 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 TONNES RT392-HAM |      |          |          |          |          |          |          |          |          |           |
|--|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter  | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD  | [kg] | 1,79E+00 | 1,15E-01 | 4,19E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -5,16E-01 |
| NHWD   | [kg] | 9,72E+01 | 2,31E+00 | 3,31E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -1,06E+01 |
| RWD  | [kg] | 2,83E-04 | 2,39E-05 | 5,43E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,30E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 4,69E+01 | 6,03E-04 | 1,03E+00 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,88E-03 |
| MER     | [kg]  | 3,53E-01 | 3,47E-06 | 2,67E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,40E-06 |
| EE      | [MJ]  | 1,70E-01 | 1,19E-02 | 1,29E+01 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,70E-01 |
| 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.   |          |          |          |          |          |          |          |          |           |

**RT390**

| ENVIRONMENTAL IMPACTS PER TONNES RT390 |   |          |          |          |          |          |          |          |          |           |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                              | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP                                    | [kg CO <sub>2</sub> eq.]  | 5,61E+01 | 5,26E+00 | 7,17E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,33E+00 |
| OPD                                    | [kg CFC 11 eq.]   | 1,56E-06 | 8,75E-08 | 1,23E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,67E-08 |
| AP                                     | [kg SO <sub>2</sub> eq.]  | 8,47E-01 | 1,08E-02 | 2,77E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,26E-02 |
| EP                                     | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 7,22E-02 | 2,67E-03 | 6,27E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,73E-03 |
| POCP                                   | [kg ethene-eq.]   | 1,78E-02 | 7,78E-04 | 1,18E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,27E-03 |
| ADPE                                   | [kg Sb-eq.]   | 2,23E-04 | 1,47E-05 | 1,62E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,64E-05 |
| ADPF                                   | [MJ]  | 4,72E+02 | 7,75E+01 | 1,04E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,63E+01 |
| Caption                                | GWP = Global warming potential; OPD = 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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT390 |   |          |          |           |          |          |          |          |          |           |
|-------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                     | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                          | [MJ]  | 3,24E+02 | 1,25E+00 | 2,64E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,35E+01 |
| PERM                          | [MJ]  | 3,05E+01 | 0,00E+00 | -3,05E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                          | [MJ]  | 3,55E+02 | 1,25E+00 | -3,02E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,35E+01 |
| PENRE                         | [MJ]  | 4,49E+02 | 7,91E+01 | 1,07E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,43E+01 |
| PENRM                         | [MJ]  | 3,84E+01 | 0,00E+00 | -3,84E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                         | [MJ]  | 4,87E+02 | 7,91E+01 | -2,77E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,43E+01 |
| SM                            | [kg]  | 1,76E+02 | 3,42E-02 | 4,59E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,31E-01 |
| RSF                           | [MJ]  | 2,28E+01 | 4,31E-04 | 6,33E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,27E-04 |
| 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  |
| FW                            | [m <sup>3</sup> ]   | 2,60E-01 | 1,19E-02 | 7,25E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,84E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                               | The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |           |          |          |          |          |          |           |

| WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT390 |      |          |          |          |          |          |          |          |          |           |
|--|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter  | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD  | [kg] | 1,38E+00 | 1,15E-01 | 4,03E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -5,11E-01 |
| NHWD   | [kg] | 8,96E+01 | 2,30E+00 | 3,28E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -1,04E+01 |
| RWD  | [kg] | 2,20E-04 | 2,38E-05 | 4,84E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,26E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 4,69E+01 | 6,00E-04 | 8,08E-01 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,70E-03 |
| MER     | [kg]  | 3,53E-01 | 3,46E-06 | 2,40E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,37E-06 |
| EE      | [MJ]  | 1,47E-01 | 1,19E-02 | 1,22E+01 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,61E-01 |
| 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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

**RT307-HAM**

| ENVIRONMENTAL IMPACTS PER TONNES RT307-HAM |   |          |          |          |          |          |          |          |          |           |
|--|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                                  | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP  | [kg CO <sub>2</sub> eq.]  | 5,71E+01 | 5,26E+00 | 6,91E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,31E+00 |
| OPD  | [kg CFC 11 eq.]   | 1,58E-06 | 8,74E-08 | 1,22E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,61E-08 |
| AP   | [kg SO <sub>2</sub> eq.]  | 8,49E-01 | 1,08E-02 | 2,74E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,25E-02 |
| EP   | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 7,26E-02 | 2,67E-03 | 6,18E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,68E-03 |
| POCP                                       | [kg ethene-eq.]   | 1,79E-02 | 7,77E-04 | 1,17E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,26E-03 |
| ADPE                                       | [kg Sb-eq.]   | 2,25E-04 | 1,47E-05 | 1,60E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,63E-05 |
| ADPF                                       | [MJ]  | 4,79E+02 | 7,74E+01 | 1,03E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,60E+01 |
| Caption                                    | GWP = Global warming potential; OPD = 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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT307-HAM |   |          |          |           |          |          |          |          |          |           |
|-----------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                         | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                              | [MJ]  | 3,24E+02 | 1,25E+00 | 2,57E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,29E+01 |
| PERM                              | [MJ]  | 2,83E+01 | 0,00E+00 | -2,83E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                              | [MJ]  | 3,52E+02 | 1,25E+00 | -2,80E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,29E+01 |
| PENRE                             | [MJ]  | 4,56E+02 | 7,90E+01 | 1,06E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,40E+01 |
| PENRM                             | [MJ]  | 3,84E+01 | 0,00E+00 | -3,84E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                             | [MJ]  | 4,95E+02 | 7,90E+01 | -2,77E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,40E+01 |
| SM                                | [kg]  | 1,76E+02 | 3,41E-02 | 4,53E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,31E-01 |
| RSF                               | [MJ]  | 4,42E+01 | 4,30E-04 | 6,30E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,26E-04 |
| 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  |
| FW                                | [m <sup>3</sup> ]   | 3,48E-01 | 1,18E-02 | 7,21E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,83E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                                   | 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 TONNES RT307-HAM |      |          |          |          |          |          |          |          |          |           |
|--|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter  | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD  | [kg] | 1,40E+00 | 1,15E-01 | 3,97E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -5,09E-01 |
| NHWD   | [kg] | 8,98E+01 | 2,30E+00 | 3,27E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -1,04E+01 |
| RWD  | [kg] | 2,27E-04 | 2,37E-05 | 4,65E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,25E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 4,69E+01 | 5,99E-04 | 7,36E-01 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,64E-03 |
| MER     | [kg]  | 3,53E-01 | 3,45E-06 | 2,31E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,36E-06 |
| EE      | [MJ]  | 1,51E-01 | 1,18E-02 | 1,19E+01 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,58E-01 |
| 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.   |          |          |          |          |          |          |          |          |           |

RT30

| ENVIRONMENTAL IMPACTS PER TONNES RT30 |   |          |          |          |          |          |          |          |          |           |
|---------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter                             | Unit  | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| GWP                                   | [kg CO <sub>2</sub> eq.]  | 6,22E+01 | 5,27E+00 | 7,54E+00 | 0,00E+00 | 0,00E+00 | 7,60E+00 | 3,47E+00 | 5,64E-02 | -5,36E+00 |
| OPD                                   | [kg CFC 11 eq.]   | 1,72E-06 | 8,76E-08 | 1,24E-08 | 0,00E+00 | 0,00E+00 | 1,20E-07 | 4,22E-08 | 1,68E-09 | -6,75E-08 |
| AP                                    | [kg SO <sub>2</sub> eq.]  | 9,27E-01 | 1,08E-02 | 2,80E-03 | 0,00E+00 | 0,00E+00 | 2,12E-02 | 2,92E-02 | 3,26E-04 | -3,28E-02 |
| EP                                    | [kg SO <sub>4</sub> <sup>3-</sup> eq.]  | 8,14E-02 | 2,68E-03 | 6,39E-04 | 0,00E+00 | 0,00E+00 | 4,82E-03 | 5,24E-03 | 5,98E-05 | -9,80E-03 |
| POCP                                  | [kg ethene-eq.]   | 2,08E-02 | 7,80E-04 | 1,19E-04 | 0,00E+00 | 0,00E+00 | 1,16E-03 | 6,12E-04 | 1,45E-05 | -2,27E-03 |
| ADPE                                  | [kg Sb-eq.]   | 2,53E-04 | 1,48E-05 | 1,64E-06 | 0,00E+00 | 0,00E+00 | 2,43E-05 | 1,22E-06 | 7,12E-08 | -5,66E-05 |
| ADPF                                  | [MJ]  | 5,96E+02 | 7,76E+01 | 1,05E+01 | 0,00E+00 | 0,00E+00 | 1,04E+02 | 4,54E+01 | 1,40E+00 | -5,66E+01 |
| Caption                               | GWP = Global warming potential; OPD = 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*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.   |          |          |          |          |          |          |          |          |           |

| RESOURCE USE PER TONNES RT30 |   |          |          |           |          |          |          |          |          |           |
|------------------------------|---|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Parameter                    | Unit  | A1-A3    | A4       | A5        | B1-B7    | C1       | C2       | C3       | C4       | D         |
| PERE                         | [MJ]  | 3,29E+02 | 1,26E+00 | 2,74E-01  | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,42E+01 |
| PERM                         | [MJ]  | 3,35E+01 | 0,00E+00 | -3,35E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PERT                         | [MJ]  | 3,63E+02 | 1,26E+00 | -3,33E+01 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 2,79E-01 | 2,91E-02 | -4,42E+01 |
| PENRE                        | [MJ]  | 5,75E+02 | 7,92E+01 | 1,08E+01  | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,48E+01 |
| PENRM                        | [MJ]  | 3,84E+01 | 0,00E+00 | -3,84E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00  |
| PENRT                        | [MJ]  | 6,13E+02 | 7,92E+01 | -2,76E+01 | 0,00E+00 | 0,00E+00 | 1,07E+02 | 4,57E+01 | 1,42E+00 | -6,48E+01 |
| SM                           | [kg]  | 9,99E+01 | 3,42E-02 | 4,67E-03  | 0,00E+00 | 0,00E+00 | 4,88E-02 | 1,90E-02 | 3,38E-04 | -1,31E-01 |
| RSF                          | [MJ]  | 9,85E-01 | 4,32E-04 | 6,37E-05  | 0,00E+00 | 0,00E+00 | 6,16E-04 | 4,96E-05 | 8,47E-06 | -9,27E-04 |
| 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  |
| FW                           | [m <sup>3</sup> ]   | 2,72E-01 | 1,19E-02 | 7,31E-03  | 0,00E+00 | 0,00E+00 | 1,46E-02 | 3,27E-03 | 1,62E-03 | -3,85E-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 = Net use of fresh water |          |          |           |          |          |          |          |          |           |
|                              | 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 TONNES RT30 |      |          |          |          |          |          |          |          |          |           |
|---|------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Parameter   | Unit | A1-A3    | A4       | A5       | B1-B7    | C1       | C2       | C3       | C4       | D         |
| HWD   | [kg] | 1,61E+00 | 1,15E-01 | 4,10E-02 | 0,00E+00 | 0,00E+00 | 1,53E-01 | 5,10E-02 | 1,08E-03 | -5,13E-01 |
| NHWD  | [kg] | 9,34E+01 | 2,31E+00 | 3,30E+01 | 0,00E+00 | 0,00E+00 | 3,24E+00 | 9,61E+02 | 9,73E+00 | -1,05E+01 |
| RWD   | [kg] | 2,48E-04 | 2,38E-05 | 5,11E-06 | 0,00E+00 | 0,00E+00 | 3,40E-05 | 5,01E-06 | 2,86E-07 | -1,28E-04 |

|         |   |          |          |          |          |          |          |          |          |           |
|---------|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| CRU     | [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  |
| MFR     | [kg]  | 4,69E+01 | 6,01E-04 | 9,09E-01 | 0,00E+00 | 0,00E+00 | 8,00E-04 | 9,60E+02 | 5,37E-06 | -6,78E-03 |
| MER     | [kg]  | 3,53E-01 | 3,47E-06 | 2,52E+00 | 0,00E+00 | 0,00E+00 | 6,75E-06 | 6,26E-07 | 2,12E-08 | -8,38E-06 |
| EE      | [MJ]  | 1,51E-01 | 1,19E-02 | 1,25E+01 | 0,00E+00 | 0,00E+00 | 1,81E-02 | 2,06E-03 | 1,59E-04 | -2,65E-01 |
| 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.   |          |          |          |          |          |          |          |          |           |



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Checked and approved by



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Mirko Miseljic, LCA Specialists

*Third party verifier of MD-25030-EN*



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*EPD Danmark*