

Annex to

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025 and EN 15804

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|--------------------------|--------------------------------------|
| Owner of the Declaration | Kaindl Boards GmbH |
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Coated particle board

Kaindl Boards GmbH

www.ibu-epd.com / <https://epd-online.com>



KAINDL



1. Product description of coated particle board

1.1 Base materials / Ancillaries (re. 2.5 in the EPD)

Raw particle boards with a thickness of 8–38 mm and an average density of 654 kg/m³ comprise the following base materials (details provided as mass percentages per 1m³ manufactured):

- Up to 75% of wood mass is covered by the use of recycled wood. Sawmill by-products, wood chips and calamity wood are used in addition.
- Water, approx. 5–13%
- UF glue / MUF glue (urea-formaldehyde resin, melamine-urea formaldehyde resin) 8–10%
- Water-repellent finish: Paraffin emulsion < 1%

Additional coatings:

Melamine coating with decorative paper with basis weights of 60–140 g/m², wood veneer or CPL laminates with a thickness of 0.2–1.2 mm

1.2 Manufacturing (re. 2.6 in the EPD)

Manufacturing directly-coated decorative particle boards:

- Manufacturing impregnated paper: Clamping the untreated paper rolls; impregnating the paper with a melamine urea resin; drying the impregnated film; formatting the paper
- Positioning impregnated films under or over a raw particle board
- Feeding a short cycle press with the bundle of impregnated base board
- Pressing under pressure and temperature
- Visual inspection of bonded boards
- Stacking

Manufacturing composite boards:

- Bonding several layers of impregnated paper (see 2.6.1 of the EPD) to a laminate in a continuous process under pressure and temperature
- Rolling up the laminate
- Glueing the base board on both sides
- Feeding a continuous press with base board and laminate on the top and bottom side
- Pressing the bundle under pressure and temperature
- Formatting the ensuing composite board
- Stacking

Manufacturing wood-veneer boards:

- Sorting real wood veneer strips
- Glueing and joining the sorted strips as wood veneer sheets
- Glueing the base board on both sides
- Positioning wood veneer sheets on the top and bottom side of the base board
- Bonding the bundle in a multi-level press
- Clean-cutting the top and bottom sides
- Stacking

2. Coated particle board results



Table 2-1: Results for melamine-coated particle boards

| LCA RESULTS - ENVIRONMENTAL IMPACT: 1 m ² veneer particle board (13.3 kg) | | | | | | | | |
|--|-----------------------------|------------------------------|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| | | Kaindl veneer particle board | | | | | | |
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| 01 EN15804+A2 Climate change, total [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | -1.44E+01 | 1.91E-01 | 0.00E+00 | 5.74E-02 | 1.94E+01 | 0.00E+00 | -1.48E+01 |
| 02 EN15804+A2 Climate change, fossil [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | 6.12E+00 | 9.11E-03 | 0.00E+00 | 5.75E-02 | 0.00E+00 | 0.00E+00 | -7.40E+00 |
| 03 EN15804+A2 Climate change, biogenic [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | -2.05E+01 | 1.81E-01 | 0.00E+00 | -5.64E-04 | 1.94E+01 | 0.00E+00 | -7.39E+00 |
| 04 EN15804+A2 Climate change, land use and changes in land use [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | 1.23E-03 | 3.02E-07 | 0.00E+00 | 3.89E-04 | 0.00E+00 | 0.00E+00 | -3.15E-04 |
| 05 EN15804+ A2 Ozone depletion potential [kg CO ₂ equiv.] | [kg CFC-11 equiv.] | 6.13E-12 | 8.58E-16 | 0.00E+00 | 5.67E-15 | 0.00E+00 | 0.00E+00 | -3.69E-11 |
| 06 EN15804+A2 Acidification [Mole of H+ equiv.] | [Mole of H+ equiv.] | 1.88E-02 | 2.15E-04 | 0.00E+00 | 6.45E-05 | 0.00E+00 | 0.00E+00 | 6.44E-03 |
| 07 EN15804+A2 Eutrophication, fresh water [kg P equiv.] | [kg P equiv.] | 7.55E-06 | 6.61E-10 | 0.00E+00 | 2.06E-07 | 0.00E+00 | 0.00E+00 | -1.89E-06 |
| 08 EN15804+A2 Eutrophication, marine ecosystems [kg N equiv.] | [kg N equiv.] | 6.41E-03 | 5.29E-05 | 0.00E+00 | 2.08E-05 | 0.00E+00 | 0.00E+00 | 1.05E-03 |

| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
|---|----------------------|---------------|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| Hazardous waste for disposal (HWD) | [kg] | 2.08E-08 | 1.11E-12 | 0.00E+00 | 4.03E-12 | 0.00E+00 | 0.00E+00 | -1.83E-08 |
| Non-hazardous waste for disposal (NHWD) | [kg] | 5.98E-02 | 9.85E-04 | 0.00E+00 | 1.24E-04 | 0.00E+00 | 0.00E+00 | 2.86E-02 |
| Radioactive waste for disposal (RWD) | [kg] | 3.80E-04 | 1.23E-07 | 0.00E+00 | 1.41E-06 | 0.00E+00 | 0.00E+00 | -1.31E-02 |
| Components for reuse (CRU) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MFR) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy per type (electricity) | [MJ] | 0.00E+00 | 5.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.30E+01 |
| Exported energy per type (thermal energy) | [MJ] | 0.00E+00 | 7.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E+01 |
| LCA RESULTS - OPTIONAL INDICATORS: 1 m² veneer particle board (13.3 kg) | | | | | | | | |
| Kaindl veneer particle board | | | | | | | | |
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| 01 EN15804+A2 fine particulate [disease incidences] | [Disease incidences] | 1.31E-07 | 9.23E-10 | 0.00E+00 | 4.43E-10 | 0.00E+00 | 0.00E+00 | -6.25E-09 |
| 02 EN15804+A2 Ionising radiation, impacts on human health [kBq U235 equiv.] | [kBq U235 equiv.] | 4.01E-02 | 1.26E-05 | 0.00E+00 | 2.13E-04 | 0.00E+00 | 0.00E+00 | -1.92E+00 |
| 03 EN15804+A2 Ecotoxicity, fresh water [CTUe] | [CTUe] | 4.20E+01 | 5.01E-03 | 0.00E+00 | 5.37E-01 | 0.00E+00 | 0.00E+00 | -2.47E+01 |
| 04 EN15804+A2 Human toxicity, carcinogenic [CTUh] | [CTUh] | 4.75E-08 | 1.27E-11 | 0.00E+00 | 1.11E-11 | 0.00E+00 | 0.00E+00 | -5.64E-11 |
| 05 EN15804+A2 Human toxicity, non-carcinogenic [CTUh] | [CTUh] | 9.70E-08 | 1.11E-09 | 0.00E+00 | 6.00E-10 | 0.00E+00 | 0.00E+00 | 2.75E-08 |
| 06 EN15804+A2 Land use [Pt] | [Pt] | 1.18E+03 | 1.02E-03 | 0.00E+00 | 3.21E-01 | 0.00E+00 | 0.00E+00 | -7.35E+00 |



Table 2-2: Results for melamine-coated particle boards

| LCA RESULTS - ENVIRONMENTAL IMPACT: 1 m ² particle board with melamine coating (11.8 kg) | | | | | | | | |
|---|-----------------------------|---|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| | | Kaindl particle board with melamine coating | | | | | | |
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| 01 EN15804+A2 Climate change, total [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | -1.24E+01 | 6.26E-02 | 0.00E+00 | 4.89E-02 | 1.79E+01 | 0.00E+00 | -1.35E+01 |
| 02 EN15804+A2 Climate change, fossil [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | 5.02E+00 | 7.10E-03 | 0.00E+00 | 4.90E-02 | 0.00E+00 | 0.00E+00 | -5.78E+00 |
| 03 EN15804+A2 Climate change, biogenic [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | -1.74E+01 | 5.55E-02 | 0.00E+00 | -4.81E-04 | 1.79E+01 | 0.00E+00 | -7.74E+00 |
| 04 EN15804+A2 Climate change, land use and land use changes [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | 1.70E-03 | 1.02E-07 | 0.00E+00 | 3.31E-04 | 0.00E+00 | 0.00E+00 | -2.52E-04 |
| 05 EN15804+ A2 Ozone depletion potential [kg CO ₂ equiv.] | [kg CFC-11 equiv.] | 7.94E-11 | 7.21E-16 | 0.00E+00 | 4.83E-15 | 0.00E+00 | 0.00E+00 | -3.14E-11 |
| 06 EN15804+A2 Acidification [Mole of H+ equiv.] | [Mole of H+ equiv.] | 1.58E-02 | 6.63E-05 | 0.00E+00 | 5.49E-05 | 0.00E+00 | 0.00E+00 | 5.82E-03 |
| 07 EN15804+A2 Eutrophication, fresh water [kg P equiv.] | [kg P equiv.] | 8.32E-06 | 3.04E-10 | 0.00E+00 | 1.76E-07 | 0.00E+00 | 0.00E+00 | -1.56E-06 |
| 08 EN15804+A2 Eutrophication, marine ecosystems [kg N equiv.] | [kg N equiv.] | 5.90E-03 | 1.63E-05 | 0.00E+00 | 1.77E-05 | 0.00E+00 | 0.00E+00 | 1.04E-03 |

| | | | | | | | | |
|--|--------------------|----------|----------|----------|----------|----------|----------|-----------|
| 09 EN15804+A2 Eutrophication, terrestrial ecosystems [kg N equiv.] | [Mole of N equiv.] | 6.92E-02 | 1.82E-04 | 0.00E+00 | 2.12E-04 | 0.00E+00 | 0.00E+00 | 1.19E-02 |
| 10 EN15804+A2 Photochemical ozone creation potential, human health [kg NMVOC equiv.] | [kg NMVOC equiv.] | 2.03E-02 | 5.29E-05 | 0.00E+00 | 4.73E-05 | 0.00E+00 | 0.00E+00 | 4.11E-03 |
| 11 EN15804+A2 Use of resources, minerals and metals [kg Sb equiv.] | [kg Sb equiv.] | 1.08E-06 | 3.14E-11 | 0.00E+00 | 4.96E-09 | 0.00E+00 | 0.00E+00 | -5.01E-07 |
| 12 EN15804+A2 Use of resources, fossil [MJ] | [MJ] | 8.99E+01 | 2.33E-03 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 0.00E+00 | -1.10E+02 |
| 13 EN15804+A2 Water use [m³ world equiv.] | [m³ world equiv.] | 7.38E-02 | 2.37E-03 | 0.00E+00 | 5.49E-04 | 0.00E+00 | 0.00E+00 | 8.67E-02 |

LCA RESULTS - USE OF RESOURCES: 1 m² particle board with melamine coating (11.8 kg)

| | | Kaindl particle board with melamine coating | | | | | | |
|--|------|---|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| Renewable primary energy as energy carrier (PERE) | [MJ] | 2.35E+01 | 5.65E-01 | 0.00E+00 | 4.47E-02 | 0.00E+00 | 0.00E+00 | 1.70E+02 |
| Renewable primary energy as material utilisation (PERM) | [MJ] | 1.80E+02 | -5.64E-01 | 0.00E+00 | 0.00E+00 | -1.79E+02 | 0.00E+00 | 0.00E+00 |
| Total use of renewable primary energy sources (PERT) | [MJ] | 2.01E+02 | 5.35E-04 | 0.00E+00 | 4.47E-02 | -1.79E+02 | 0.00E+00 | 1.70E+02 |
| Non-renewable primary energy as energy carrier (PERE) | [MJ] | 6.15E+01 | 2.97E-02 | 0.00E+00 | 6.48E-01 | 0.00E+00 | 0.00E+00 | -8.16E+01 |
| Non-renewable primary energy as material utilisation (PENRM) | [MJ] | 2.84E+01 | -2.74E-02 | 0.00E+00 | 0.00E+00 | -2.84E+01 | 0.00E+00 | 0.00E+00 |
| Total use of non-renewable primary energy sources (PENRT) | [MJ] | 8.99E+01 | 2.33E-03 | 0.00E+00 | 6.48E-01 | -2.84E+01 | 0.00E+00 | -8.16E+01 |
| Use of secondary materials (SM) | [kg] | 4.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable secondary fuels (RSF) | [MJ] | 1.14E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E+02 |
| Non-renewable secondary fuels (NRSF) | [MJ] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E+01 |
| Net use of fresh water (FW) | [m³] | 1.32E-02 | 5.56E-05 | 0.00E+00 | 5.16E-05 | 0.00E+00 | 0.00E+00 | -7.35E-03 |



| LCA RESULTS – OUTPUT FLOWS AND WASTE CATEGORIES: 1 m ² particle board with melamine coating (11.8 kg) | | | | | | | | |
|--|----------------------|---|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| | | Kaindl particle board with melamine coating | | | | | | |
| | | Product stage | Installation | | | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| Hazardous waste for disposal (HWD) | [kg] | 5.75E-07 | 4.19E-13 | 0.00E+00 | 3.43E-12 | 0.00E+00 | 0.00E+00 | -1.26E-08 |
| Non-hazardous waste for disposal (NHWD) | [kg] | 5.22E-02 | 3.22E-04 | 0.00E+00 | 1.06E-04 | 0.00E+00 | 0.00E+00 | 2.75E-02 |
| Radioactive waste for disposal (RWD) | [kg] | 4.51E-04 | 6.11E-08 | 0.00E+00 | 1.20E-06 | 0.00E+00 | 0.00E+00 | -1.12E-02 |
| Components for reuse (CRU) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling (MFR) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery (MER) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy per type (electricity) | [MJ] | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E+01 |
| Exported energy per type (thermal energy) | [MJ] | 0.00E+00 | 1.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.32E+01 |
| LCA RESULTS - OPTIONAL INDICATORS: 1 m ² particle board with melamine coating (11.8 kg) | | | | | | | | |
| | | Kaindl particle board with melamine coating | | | | | | |
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| 01 EN15804+A2 fine particulate [disease incidences] | [Disease incidences] | 1.12E-07 | 2.86E-10 | 0.00E+00 | 3.77E-10 | 0.00E+00 | 0.00E+00 | -2.74E-09 |
| 02 EN15804+A2 Ionising radiation, health impacts on humans [kBq U235 equiv.] | [kBq U235 equiv.] | 5.07E-02 | 6.19E-06 | 0.00E+00 | 1.82E-04 | 0.00E+00 | 0.00E+00 | -1.64E+00 |
| 03 EN15804+A2 Ecotoxicity, fresh water [CTUe] | [CTUe] | 3.70E+01 | 1.85E-03 | 0.00E+00 | 4.57E-01 | 0.00E+00 | 0.00E+00 | -2.09E+01 |
| 04 EN15804+A2 Human toxicity, carcinogenic [CTUh] | [CTUh] | 4.38E-08 | 3.91E-12 | 0.00E+00 | 9.43E-12 | 0.00E+00 | 0.00E+00 | 3.92E-12 |
| 05 EN15804+A2 Human toxicity, non-carcinogenic [CTUh] | [CTUh] | 7.86E-08 | 3.39E-10 | 0.00E+00 | 5.11E-10 | 0.00E+00 | 0.00E+00 | 2.89E-08 |
| 06 EN15804+A2 Land use [Pt] | [Pt] | 8.84E+02 | 5.51E-04 | 0.00E+00 | 2.73E-01 | 0.00E+00 | 0.00E+00 | -6.24E+00 |



Table 2-3: Results for CPL-coated particle boards

| LCA RESULTS - ENVIRONMENTAL IMPACT: 1 m ² particle board with CPL coating (11.8kg) | | | | | | | | |
|---|-----------------------------|--|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| | | Kaindl particle board with CPL coating | | | | | | |
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| 01 EN15804+A2 Climate change, total [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | -1.21E+01 | 5.56E-01 | 0.00E+00 | 4.85E-02 | 1.80E+01 | 0.00E+00 | -1.41E+01 |
| 02 EN15804+A2 Climate change, fossil [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | 5.63E+00 | 7.66E-03 | 0.00E+00 | 4.87E-02 | 0.00E+00 | 0.00E+00 | -6.20E+00 |
| 03 EN15804+A2 Climate change, biogenic [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | -1.77E+01 | 5.48E-01 | 0.00E+00 | -4.78E-04 | 1.80E+01 | 0.00E+00 | -7.91E+00 |
| 04 EN15804+A2 Climate change, land use and land use changes [kg CO ₂ equiv.] | [kg CO ₂ equiv.] | 2.52E-03 | 8.67E-07 | 0.00E+00 | 3.29E-04 | 0.00E+00 | 0.00E+00 | -2.63E-04 |
| 05 EN15804+ A2 Ozone depletion potential [kg CO ₂ equiv.] | [kg CFC-11 equiv.] | 9.68E-10 | 4.77E-16 | 0.00E+00 | 4.80E-15 | 0.00E+00 | 0.00E+00 | -3.12E-11 |
| 06 EN15804+A2 Acidification [Mole of H+ equiv.] | [Mole of H+ equiv.] | 1.68E-02 | 6.47E-04 | 0.00E+00 | 5.46E-05 | 0.00E+00 | 0.00E+00 | 5.38E-03 |
| 07 EN15804+A2 Eutrophication, fresh water [kg P equiv.] | [kg P equiv.] | 1.03E-05 | 1.53E-09 | 0.00E+00 | 1.74E-07 | 0.00E+00 | 0.00E+00 | -1.59E-06 |
| 08 EN15804+A2 Eutrophication, marine ecosystems [kg N equiv.] | [kg N equiv.] | 6.44E-03 | 1.59E-04 | 0.00E+00 | 1.76E-05 | 0.00E+00 | 0.00E+00 | 8.95E-04 |



| | | | | | | | | |
|--|--------------------|----------|----------|----------|----------|----------|----------|-----------|
| 09 EN15804+A2 Eutrophication, terrestrial ecosystems [kg N equiv.] | [Mole of N equiv.] | 7.33E-02 | 1.76E-03 | 0.00E+00 | 2.10E-04 | 0.00E+00 | 0.00E+00 | 1.03E-02 |
| 10 EN15804+A2 Photochemical ozone creation potential, human health [kg NMVOC equiv.] | [kg NMVOC equiv.] | 2.14E-02 | 5.18E-04 | 0.00E+00 | 4.70E-05 | 0.00E+00 | 0.00E+00 | 3.69E-03 |
| 11 EN15804+A2 Use of resources, minerals and metals [kg Sb equiv.] | [kg Sb equiv.] | 1.27E-06 | 1.48E-10 | 0.00E+00 | 4.92E-09 | 0.00E+00 | 0.00E+00 | -5.28E-07 |
| 12 EN15804+A2 Use of resources, fossil [MJ] | [MJ] | 9.96E+01 | 1.19E-02 | 0.00E+00 | 6.41E-01 | 0.00E+00 | 0.00E+00 | -1.16E+02 |
| 13 EN15804+A2 Water use [m³ world equiv.] | [m³ world equiv.] | 9.08E-02 | 1.79E-02 | 0.00E+00 | 5.45E-04 | 0.00E+00 | 0.00E+00 | 8.51E-02 |

LCA RESULTS - USE OF RESOURCES: 1 m² particle board with CPL coating (11.8kg)

| | | Kaindl particle board with CPL coating | | | | | | |
|--|------|--|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| Renewable primary energy as energy carrier (PERE) | [MJ] | 2.10E+01 | 5.87E+00 | 0.00E+00 | 4.44E-02 | 0.00E+00 | 0.00E+00 | 1.70E+02 |
| Renewable primary energy as material utilisation (PERM) | [MJ] | 1.86E+02 | -5.86E+00 | 0.00E+00 | 0.00E+00 | -1.80E+02 | 0.00E+00 | 0.00E+00 |
| Total use of renewable primary energy sources (PERT) | [MJ] | 2.07E+02 | 2.18E-03 | 0.00E+00 | 4.44E-02 | -1.80E+02 | 0.00E+00 | 1.70E+02 |
| Non-renewable primary energy as energy carrier (PERE) | [MJ] | 7.26E+01 | 2.98E-02 | 0.00E+00 | 6.44E-01 | 0.00E+00 | 0.00E+00 | -8.90E+01 |
| Non-renewable primary energy as material utilisation (PENRM) | [MJ] | 2.70E+01 | -1.79E-02 | 0.00E+00 | 0.00E+00 | -2.70E+01 | 0.00E+00 | 0.00E+00 |
| Total use of non-renewable primary energy sources (PENRT) | [MJ] | 9.96E+01 | 1.19E-02 | 0.00E+00 | 6.44E-01 | -2.70E+01 | 0.00E+00 | -8.90E+01 |
| Use of secondary materials (SM) | [kg] | 4.81E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Renewable secondary fuels (RSF) | [MJ] | 1.15E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E+02 |
| Non-renewable secondary fuels (NRSF) | [MJ] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E+01 |
| Net use of fresh water (FW) | [m³] | 1.51E-02 | 4.19E-04 | 0.00E+00 | 5.13E-05 | 0.00E+00 | 0.00E+00 | -7.61E-03 |

LCA RESULTS – OUTPUT FLOWS AND WASTE CATEGORIES: 1 m² particle board with CPL coating (11.8kg)

| | | Kaindl particle board with CPL coating | | | | | | |
|--|--|--|--|--|--|--|--|--|
|--|--|--|--|--|--|--|--|--|



| | | Product stage | Installation | | | Waste processing | Disposal | Net credits and loads |
|--|----------------------|--|--------------|------------------------------|-----------|------------------|----------|-----------------------|
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| Hazardous waste for disposal (HWD) | [kg] | 9.40E-07 | 2.97E-12 | 0.00E+00 | 3.41E-12 | 0.00E+00 | 0.00E+00 | -1.45E-08 |
| Non-hazardous waste for disposal (NHWD) | [kg] | 6.02E-02 | 2.88E-03 | 0.00E+00 | 1.05E-04 | 0.00E+00 | 0.00E+00 | 2.50E-02 |
| Radioactive waste for disposal (RWD) | [kg] | 5.15E-04 | 2.61E-07 | 0.00E+00 | 1.19E-06 | 0.00E+00 | 0.00E+00 | -1.11E-02 |
| Components for reuse (CRU) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | IND |
| Materials for recycling (MFR) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | IND |
| Materials for energy recovery (MER) | [kg] | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy per type (electricity) | [MJ] | 0.00E+00 | 1.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E+01 |
| Exported energy per type (thermal energy) | [MJ] | 0.00E+00 | 2.11E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E+01 |
| LCA RESULTS – OUTPUT FLOWS AND WASTE CATEGORIES: 1 m² particle board with CPL coating (11.8kg) | | | | | | | | |
| | | Kaindl particle board with CPL coating | | | | | | |
| | | Product stage | Installation | De-construction / Demolition | Transport | Waste processing | Disposal | Net credits and loads |
| Parameter | Unit | A1-A3 | A5 | C1 | C2 | C3 | C4 | D |
| 01 EN15804+A2 fine particulate [disease incidences] | [Disease incidences] | 1.25E-07 | 2.78E-09 | 0.00E+00 | 3.75E-10 | 0.00E+00 | 0.00E+00 | -6.03E-09 |
| 02 EN15804+A2 Ionising radiation, impacts on human health [kBq U235 equiv.] | [kBq U235 equiv.] | 5.88E-02 | 2.72E-05 | 0.00E+00 | 1.80E-04 | 0.00E+00 | 0.00E+00 | -1.63E+00 |
| 03 EN15804+A2 Ecotoxicity, fresh water [CTUe] | [CTUe] | 4.12E+01 | 1.37E-02 | 0.00E+00 | 4.54E-01 | 0.00E+00 | 0.00E+00 | -2.16E+01 |
| 04 EN15804+A2 Human toxicity, carcinogenic [CTUh] | [CTUh] | 4.42E-08 | 3.83E-11 | 0.00E+00 | 9.37E-12 | 0.00E+00 | 0.00E+00 | -4.67E-11 |
| 05 EN15804+A2 Human toxicity, non-carcinogenic [CTUh] | [CTUh] | 8.91E-08 | 3.34E-09 | 0.00E+00 | 5.08E-10 | 0.00E+00 | 0.00E+00 | 2.45E-08 |
| 06 EN15804+A2 Land use [Pt] | [Pt] | 8.99E+02 | 1.97E-03 | 0.00E+00 | 2.71E-01 | 0.00E+00 | 0.00E+00 | -6.22E+00 |