

# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

|                          |                                      |
|--------------------------|--------------------------------------|
| Owner of the Declaration | Kronospan Luxembourg S.A.            |
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| Valid to                 | 10.07.2028                           |

## Medium Density Fibreboard (MDF) Kronospan Luxembourg S.A.

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## General Information

### Kronospan Luxembourg S.A.

#### Programme holder

IBU – Institut Bauen und Umwelt e.V.  
Hegelplatz 1  
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Germany

#### Declaration number

EPD-KRO-20230159-CBA1-EN

#### This declaration is based on the product category rules:

Wood-based panels, 01.08.2021  
(PCR checked and approved by the SVR)

#### Issue date

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#### Valid to

10.07.2028



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### Medium Density Fibreboard (MDF)

#### Owner of the declaration

Kronospan Luxembourg S.A.  
Rue GadderScheier 1  
4984 Soleuvre  
Luxembourg

#### Declared product / declared unit

1m<sup>3</sup> Kronospan MDF panel

#### Scope:

This document applies to Kronospan MDF, which is composed of wood shavings, mixed with a resin (melamine urea formaldehyde – MUF). The declared unit weight is 716.7 kg/m<sup>3</sup>. LCA data were compiled using foreground data collected based on billing documents and material balances for the period between October 2020 and March 2022. The declaration holder is responsible for the underlying data and its verification. The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

#### Verification

|                                                                                  |            |
|----------------------------------------------------------------------------------|------------|
| The standard EN 15804 serves as the core PCR                                     |            |
| Independent verification of the declaration and data according to ISO 14025:2011 |            |
| <input type="checkbox"/>                                                         | internally |
| <input checked="" type="checkbox"/>                                              | externally |



Mr Olivier Muller,  
(Independent verifier)

## Product

### Product description/Product definition

MDF (Medium Density Fibreboard) is engineered wood products that consist of panels made from a combination of wood fibres and resin. They are applicable particularly in furniture such as doors, construction such as mouldings and indoor products. It is especially suitable for further finishing (routing, milling, lacquering, laminating and foiling) and a good substitute for solid wood.

The Kronobuild® product line includes, as well as standard MDF, boards with specialist application properties – moisture resistant MR MDF, Light MDF and Ultra Light MDF, Flame Retardant MDF, Deep Router MDF. For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) Regulation (EU) No. 305/2011 (CPR) applies. The product needs a declaration of performance taking into consideration EN 13986:2004 + A1:2015, Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking - and the CE-marking. For the application and use the respective national provisions apply

### Application

Due to their homogeneous structure, MDF boards can be milled three-dimensionally and then painted, foil wrapped or faced with a paper decor in a membrane press.

The main applications of MDF include interior design, furniture components, decorative features, cladding, partitions, areas that require protection from moisture, skirting boards / architrave and window boards / sills.

### Technical Data

Technical product groups covered in this EPD are MDF Light, Standard MDF, Moisture Resistant MDF, Deep Router MDF, Flame Retardant, Ultra Light MDF.

Technical specification accounts for thicknesses of boards within the range of 5,5 - 38mm.

### Constructional data

| Name                                                                                                   | Value       | Unit              |
|--------------------------------------------------------------------------------------------------------|-------------|-------------------|
| Gross density                                                                                          | 640 - 800   | kg/m <sup>3</sup> |
| Grammage                                                                                               | 5.1 - 30.4  | kg/m <sup>2</sup> |
| Bending strength (longitudinal)                                                                        | 17 - 23     | N/mm <sup>2</sup> |
| Bending strength (transverse)                                                                          | 17 - 23     | N/mm <sup>2</sup> |
| E-module (longitudinal)                                                                                | 1900 - 2700 | N/mm <sup>2</sup> |
| E-module (transverse)                                                                                  | 1900 - 2700 | N/mm <sup>2</sup> |
| Material dampness at delivery                                                                          | 4 - 11      | %                 |
| Tensile strength rectangular                                                                           | 0.5 - 0.65  | N/mm <sup>2</sup> |
| Thermal conductivity                                                                                   | 0.12 - 0.16 | W/(mK)            |
| Water vapour diffusion resistance factor (wet cup μ)*                                                  | 15.7 - 22.9 | -                 |
| Sound absorption coefficient (frequency range 1000-2000 Hz)*                                           | 0.2         | %                 |
| Formaldehyde emissions E1 acc. to EN 717-1 or E1 DE 2020 ChemVerbotsV (E05) or TSCA Title VI / CARB P2 | -           | μg/m <sup>3</sup> |

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to EN13986:2004 + A1:2015 Wood-based panels for use in construction. Characteristics, evaluation of conformity and marking.

### Base materials/Ancillary materials

The MDF panels are made of 80 - 90% of virgin wood, 8 - 18% of melamine urea formaldehyde resin (MUF), and 2% of other additives.

This product contains substances listed in the candidate list (date: 28/02/2023) exceeding 0.1 percentage by mass : NO.

### Reference service life

The service life is assumed to be 50 years, as MDF is a non-structural element of a building.

Since no use impacts are quantified (the products do not require energy, maintenance or other reparation process during its use), this lifetime parameter does not influence the results.

## LCA: Calculation rules

### Declared Unit

This declaration applies to 1 m<sup>3</sup> of Kronospan MDF panel, with a declared unit weight of 716.7 kg/m<sup>3</sup>.

### Declared unit and mass reference

| Name            | Value | Unit              |
|-----------------|-------|-------------------|
| Declared unit   | 1     | m <sup>3</sup>    |
| Mass reference  | 716.7 | kg/m <sup>3</sup> |
| Layer thickness | 0.014 | m                 |

Foreground data for the production processes (A1-A3) were collected from the Kronospan production site (Sanem, Luxembourg) and are representative for the period of October 2020 to March 2022. The manufacturing data are specific to the technologies used in the plant and representative of the local geographical context. Market share data specific to each product category from the year 2021 were used to model the transport to building site (module A4).

For the further life cycle stages (modules A5 to D), generic inventory data are used.

These processes are not specific to Kronospan products and reference data or statistics were applied. The inputs of outputs of these processes were mainly based on the COFIDAB report prepared by FCBA (2012) and associated French EPD ('FDES') published by FCBA. The shares between various disposal routes for packaging waste (module A5) were based on European statistics for the year 2019.

The *ecoinvent database version 3.8* was used to model background data. The average dataset based on European data is used to model the glue production (no specific supplier data used).

### System boundary

Type of EPD: Cradle-to-grave (with options)

The system boundaries of the EPD follow the modular construction system as described by *EN 15804*.

The LCA considers the following modules:

A1-A3: Manufacturing of pre-products, packaging, ancillary materials, transport to the factory and production, with the associated energy supply and waste handling

A4: Transport to the construction site

A5: Installation into the building including disposal of packaging

C1: Deconstruction (screws disposal and electricity from the screwdriver) C2: Transport to disposal sites

C3: Final product waste disposal for reuse, recycling and energy recovery

C4: Waste disposal, namely incineration and landfill

D: Potential for reuse, recovery and/or recycling including benefits for product incineration from module C4

### Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Luxembourg

### Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

## LCA: Scenarios and additional technical information

### Characteristic product properties of biogenic carbon

#### Information on describing the biogenic Carbon Content at factory gate

| Name                                              | Value | Unit |
|---------------------------------------------------|-------|------|
| Biogenic carbon content in product                | 278.2 | kg C |
| Biogenic carbon content in accompanying packaging | 16.5  | kg C |

### Transport to the building site (A4)

| Name                                  | Value | Unit              |
|---------------------------------------|-------|-------------------|
| Transport distance (truck)            | 370   | km                |
| Gross density of products transported | 728.6 | kg/m <sup>3</sup> |

### Installation into the building (A5)

| Name                         | Value | Unit |
|------------------------------|-------|------|
| Auxiliary (screw)            | 1.75  | kg   |
| Electricity consumption      | 0.073 | kWh  |
| Material loss                | 57.3  | kg   |
| Product loss to incineration | 83    | %    |
| Product loss to landfill     | 17    | %    |
| Packaging waste              | 12.9  | kg   |

The reference service life does not affect the results since no use impacts are quantified.

### End of life (C1-C4)

| Name                                  | Value | Unit |
|---------------------------------------|-------|------|
| Collected as mixed construction waste | 716.7 | kg   |
| Energy recovery                       | 594.9 | kg   |
| Landfilling                           | 121.8 | kg   |

### Reuse, recovery and/or recycling potentials (D), relevant scenario information

| Name                             | Value | Unit |
|----------------------------------|-------|------|
| Avoided energy from incineration | 8322  | MJ   |

## LCA: Results

The results displayed below apply to 1 m<sup>3</sup> of Kronospan MDF panel, with a declared unit weight of 716.7 kg/m<sup>3</sup>.

**DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)**

| Product stage       |           |               | Construction process stage          |          | Use stage |             |        |             |               |                        |                       | End-of-life stage          |           |                  |          | Benefits and loads beyond the system boundaries |
|---------------------|-----------|---------------|-------------------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-------------------------------------------------|
| Raw material supply | Transport | Manufacturing | Transport from the gate to the site | Assembly | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential              |
| A1                  | A2        | A3            | A4                                  | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                               |
| X                   | X         | X             | X                                   | X        | MND       | MND         | MNR    | MNR         | MNR           | MND                    | MND                   | X                          | X         | X                | X        | X                                               |

### RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m<sup>3</sup> Kronospan MDF panel

| Parameter      | Unit                             | A1-A3     | A4       | A5       | C1       | C2       | C3 | C4       | D         |
|----------------|----------------------------------|-----------|----------|----------|----------|----------|----|----------|-----------|
| GWP-total      | kg CO <sub>2</sub> eq            | -7.81E+02 | 2.67E+01 | 9.37E+01 | 2.95E-02 | 5.96E+00 | 0  | 1.04E+03 | -2.49E+02 |
| GWP-fossil     | kg CO <sub>2</sub> eq            | 3.3E+02   | 2.67E+01 | 4.82E+00 | 2.85E-02 | 5.96E+00 | 0  | 6.47E+00 | -2.49E+02 |
| GWP-biogenic   | kg CO <sub>2</sub> eq            | -1.11E+03 | 2.72E-02 | 8.89E+01 | 9.18E-04 | 5.36E-03 | 0  | 1.03E+03 | -4.62E-02 |
| GWP-luluc      | kg CO <sub>2</sub> eq            | 1.23E+00  | 9.6E-03  | 3.24E-03 | 6.73E-05 | 2.34E-03 | 0  | 2.19E-03 | -7.79E-03 |
| ODP            | kg CFC11 eq                      | 3.94E-05  | 6.38E-06 | 4.07E-07 | 1.44E-09 | 1.38E-06 | 0  | 1.01E-06 | -3.49E-05 |
| AP             | mol H <sup>+</sup> eq            | 1.82E+00  | 1.11E-01 | 3.52E-02 | 1.62E-04 | 2.42E-02 | 0  | 1.93E-01 | -3.2E-01  |
| EP-freshwater  | kg P eq                          | 1.55E-02  | 1.83E-04 | 1.86E-04 | 3.04E-06 | 4.18E-05 | 0  | 1.1E-04  | -2.27E-04 |
| EP-marine      | kg N eq                          | 2.79E-01  | 3.37E-02 | 1.26E-02 | 2.07E-05 | 7.21E-03 | 0  | 9.32E-02 | -1.16E-01 |
| EP-terrestrial | mol N eq                         | 4.34E+00  | 3.72E-01 | 1.34E-01 | 2.38E-04 | 7.96E-02 | 0  | 1.03E+00 | -1.28E+00 |
| POCP           | kg NMVOC eq                      | 1.41E+00  | 1.2E-01  | 4.2E-02  | 6.54E-05 | 2.44E-02 | 0  | 2.72E-01 | -4.37E-01 |
| ADPE           | kg Sb eq                         | 3.82E-03  | 6.12E-05 | 4.9E-05  | 2.68E-07 | 2.07E-05 | 0  | 2.32E-05 | -1.47E-04 |
| ADPF           | MJ                               | 5.59E+03  | 4.16E+02 | 5.39E+01 | 6.07E-01 | 9E+01    | 0  | 8.32E+01 | -3.48E+03 |
| WDP            | m <sup>3</sup> world eq deprived | 4.29E+02  | 1.43E+00 | 1.06E+00 | 7.09E-03 | 2.7E-01  | 0  | 1.86E+00 | -1.42E+00 |

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

### RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m<sup>3</sup> Kronospan MDF panel

| Parameter | Unit           | A1-A3    | A4       | A5       | C1       | C2       | C3 | C4        | D         |
|-----------|----------------|----------|----------|----------|----------|----------|----|-----------|-----------|
| PERE      | MJ             | 1.53E+02 | 5.3E+00  | 3.96E+00 | 1.25E-01 | 1.27E+00 | 0  | 8.32E+03  | 0         |
| PERM      | MJ             | 1.67E+04 | 0        | 0        | 0        | 0        | 0  | -8.32E+03 | 0         |
| PERT      | MJ             | 1.68E+04 | 5.3E+00  | 3.96E+00 | 1.25E-01 | 1.27E+00 | 0  | 0         | 0         |
| PENRE     | MJ             | 6.07E+03 | 4.42E+02 | 5.72E+01 | 6.37E-01 | 9.56E+01 | 0  | 8.95E+01  | -3.86E+03 |
| PENRM     | MJ             | 0        | 0        | 0        | 0        | 0        | 0  | 0         | 0         |
| PENRT     | MJ             | 6.07E+03 | 4.42E+02 | 5.72E+01 | 6.37E-01 | 9.56E+01 | 0  | 8.95E+01  | -3.86E+03 |
| SM        | kg             | 0        | 0        | 0        | 0        | 0        | 0  | 0         | 0         |
| RSF       | MJ             | 6.87E+03 | 0        | 0        | 0        | 0        | 0  | 0         | 8.32E+03  |
| NRSF      | MJ             | 0        | 0        | 0        | 0        | 0        | 0  | 0         | 0         |
| FW        | m <sup>3</sup> | 1.32E+01 | 2.07E-01 | 1.07E-01 | 1.01E-02 | 5.56E-02 | 0  | 3.67E-01  | -1.97E-01 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

### RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m<sup>3</sup> Kronospan MDF panel

| Parameter | Unit | A1-A3    | A4       | A5       | C1       | C2       | C3 | C4       | D         |
|-----------|------|----------|----------|----------|----------|----------|----|----------|-----------|
| HWD       | kg   | 8.34E-03 | 1.01E-03 | 2.56E-04 | 4.62E-07 | 2.35E-04 | 0  | 1.94E-04 | -4.66E-03 |
| NHWD      | kg   | 5.33E+01 | 3.89E+01 | 1.69E+01 | 2.12E-03 | 4.63E+00 | 0  | 1.26E+02 | -1.9E+00  |
| RWD       | kg   | 1.01E-02 | 2.82E-03 | 1.72E-04 | 4.46E-06 | 6.09E-04 | 0  | 3.07E-04 | -3.95E-04 |
| CRU       | kg   | 0        | 0        | 0        | 0        | 0        | 0  | 0        | 0         |
| MFR       | kg   | 0        | 0        | 0        | 0        | 0        | 0  | 0        | 0         |
| MER       | kg   | 0        | 0        | 5.73E+01 | 0        | 0        | 0  | 5.95E+02 | 0         |
| EEE       | MJ   | 0        | 0        | 0        | 0        | 0        | 0  | 0        | 0         |
| EET       | MJ   | 0        | 0        | 9.67E+02 | 0        | 0        | 0  | 8.32E+03 | 0         |

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

## RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:

### 1 m3 Kronospan MDF panel

| Parameter | Unit              | A1-A3    | A4       | A5       | C1       | C2       | C3 | C4       | D         |
|-----------|-------------------|----------|----------|----------|----------|----------|----|----------|-----------|
| PM        | Disease incidence | 6.82E-05 | 3.14E-06 | 4.96E-07 | 4.48E-10 | 5.12E-07 | 0  | 1.68E-06 | -9.97E-07 |
| IR        | kBq U235 eq       | 7.63E+00 | 1.81E+00 | 1.44E-01 | 5.45E-03 | 3.91E-01 | 0  | 2.43E-01 | -3.26E-01 |
| ETP-fw    | CTUe              | 7.12E+03 | 3.25E+02 | 1.34E+02 | 3.84E-01 | 7.03E+01 | 0  | 1.49E+02 | -2.8E+02  |
| HTP-c     | CTUh              | 5.27E-07 | 8.99E-09 | 4.4E-08  | 1.18E-11 | 2.28E-09 | 0  | 1.78E-07 | -1.5E-08  |
| HTP-nc    | CTUh              | 7.65E-06 | 3.56E-07 | 1.76E-07 | 3.77E-10 | 7.37E-08 | 0  | 5.41E-07 | -7.85E-07 |
| SQP       | SQP               | 3.36E+04 | 4.76E+02 | 2.89E+01 | 1.1E-01  | 6.19E+01 | 0  | 8.79E+01 | -6.8E+01  |

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

## References

### Standards

#### EN 15804

EN 15804:2012+A2:2019+AC:2021, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

#### ISO 14025

EN ISO 14025:2011, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

#### EN 13986

EN 13986:2004 + A1:2015 Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking

### Further References

#### PCR 2021, Part A

PCR Guidance-Texts for Building-Related Products and Services: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019

#### PCR 2023, Part B

PCR-Guidances-Texts for Building-Related Products and Services. Part B: Requirements on the EPD for Wood based panels

#### FCBA (2012)

Rapport d'étude Volet 2 – Prise en compte de la fin de vie des

produits bois. Convention DHUP/CSTB 2009 Action 33 – Sous action 5. ACV & Déclarations environnementales pour des produits et composants de la construction bois.

#### FCBA (2019)

Fiche de déclaration environnementale et sanitaire (FDES) – Panneaux de lamelles de bois minces orientées OSB (oriented strand board) de type 3 (panneaux travaillants utilisés en milieu humide) bruts. Epaisseur déclarée : 18 mm. FDES collective 2-90 :2018.

#### FCBA (2022a)

Fiche de déclaration environnementale et sanitaire (FDES) – Panneaux de lamelles de bois minces orientées OSB (oriented strand board) de type 3 (panneaux travaillants utilisés en milieu humide) bruts. Epaisseur déclarée : 12 mm. FDES collective 132289692502022.

#### FCBA (2022b)

Fiche de déclaration environnementale et sanitaire (FDES) – Panneaux de fibres MDF (medium-density fibreboard) utilisés en milieu humide bruts. Epaisseur déclarée : 18 mm. FDES collective 182289782502022.

#### FCBA (2022c)

Fiche de déclaration environnementale et sanitaire (FDES) – Panneaux de fibres MDF (medium-density fibreboard) utilisés en milieu humide bruts. Epaisseur déclarée : 19 mm. FDES collective 341289752502022.

#### SimaPro software and ecoinvent database:2021

SimaPro software ecoinvent database, version 3.8, 2021



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