

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ACCORDING TO ISO 14025 & 15804+A2

PRODUCT: KWART 120/03

casala

Environmental Product Declaration (EPD)

An Environmental Product Declaration (EPD) is a Type III environmental declaration that quantifies environmental information about the life cycle of a product. This can enable comparisons between products fulfilling the same function. The methodology to produce an EPD is based on the full product life cycle assessment (LCA), following the ISO 14040 series of standards.

KWART 120/03

The Kwart modular shelving system is an ingenious puzzle piece and can be assembled entirely according to your wishes. The bookshelf derives its name from the fact that four cross elements each form a closed whole; one element is always a quarter of the whole. A Kwart bookshelf is a collection of individual elements, consisting of corner, cross and T elements. An upholstered insert can be placed in the open elements. The elements can be linked without glue, screws or tools. Kwart is quick and easy to adapt to a space. It is easy to expand the shelving or to realise a completely different set-up. Kwart is very stable and can also be used as a room divider in an open environment.



The production facility and almost all 3rd parties are ISO 9001 & 14001 certified.

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|-----------------------|-----------------------|
| Variant | T-element finger |
| Base | Oriented strand board |
| Finish | Untreated |
| Technical life span | 15 years |
| Dimensions (HxLxW) | 39.5 x 35 x 38 cm |
| Weight | 3.5 kg |
| Packaging weight | 0.1 kg |
| Product certification | FSC |

GLOBAL WARMING POTENTIAL

To quantify and compare results, we use the Global Warming Potential (GWP) expressed in kg CO₂-equivalent. This is a measurement method for finding out the amount of energy required to emit 1 tonne of a gas, which is absorbed over a 100-year period. The greater the GWP, the more a particular gas warms the earth.

To comply with EN ISO 15804+A2, Casala uses the 'cradle to grave' assessment for their EPD files. The assessment covers the full life cycle of a product; from production phase to use, followed by recycling or disposal. Other EPD files often only use the 'cradle to gate' assessment, which only covers the production phase.

| | |
|--------------------------------|-------------------------------|
| GWP per unit (Cradle to Grave) | 2.307 kg CO ₂ eq. |
| GWP per unit (Cradle to Gate) | -2.773 kg CO ₂ eq. |

THE ASSUMED PERCENTAGE OF WASTE PROCESSING

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|--------------|---------|
| Landfill | 5.00 % |
| Incineration | 85.00 % |
| Recycling | 10.00 % |
| Re-use | 0.00 % |

DOCUMENT INFORMATION

| | |
|--------------------|--------------------|
| Calculation number | ReTHiNK-88450 |
| Declaration owner | Casala |
| Publisher | Casala |
| Program operator | Casaro |
| LCA software | NIBE - R<THINK LCA |
| Status | Valid |

