

# ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ACCORDING TO ISO 14025 & 15804+A2

PRODUCT: SOLID 4010/05

**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.

## SOLID 4010/05

High barstools are indispensable in modern business environments. Solid is an efficient landing place for informal activities. Solid promotes interaction amongst employees, in keeping with today's dynamic work culture. Solid's design focuses on rounded corners, with the seat elegantly recessed into the base. With the stackable Solid bar stools, multifunctional spaces are quickly transformed for workshops, brainstorming and team meetings. The bar stool has an integrated footrest, which provides extra comfort and support.



Casala's production facility has a solar park which produced 4.5t Kwh in 2023. The remaining energy needed is produced by European Wind as stated by the supplier. The production facility and almost all 3<sup>rd</sup> parties are ISO 9001 & 14001 certified.

Variant	Stool, wooden seat
Base	Welded steel chassis
Finish	Powder coating
Technical life span	15 years
Dimensions (HxLxW)	46 x 35 x 35 cm
Weight	5.8 kg
Packaging weight	0.1 kg

## GLOBAL WARMING POTENTIAL

To quantify and compare results, we use the Global Warming Potential (GWP) expressed in kg CO<sub>2</sub>-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)	18.739 kg CO <sub>2</sub> eq.
GWP per unit (Cradle to Gate)	22.918 kg CO <sub>2</sub> eq.
Average GWP for contract chairs according to the Furniture Industry Research Association (Cradle to Gate)	27.000 kg CO <sub>2</sub> eq.

## THE ASSUMED PERCENTAGE OF WASTE PROCESSING

Landfill	2.53 %
Incineration	25.83 %
Recycling	65.21 %
Re-use	6.68 %

## DOCUMENT INFORMATION

Calculation number	ReTHiNK-89196
Declaration owner	Casala
Publisher	Casala
Program operator	Casaro
LCA software	NIBE - R<THINK LCA
Status	Valid

