

# ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ACCORDING TO ISO 14025 & 15804+A2

PRODUCT: CURVY 3288/00

**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.

## CURVY 3288/00

For 20 years, the Curvy chair has proven itself worldwide as the ultimate combination of elegance, functionality and sustainability. With its timeless design and slender, wire-steel frame, Curvy fits perfectly in conference and education rooms, event halls and churches. This chair combines sustainability with innovation: the plastic seat and backrest are made from 100% recycled material and available in a palette of 15 modern colours. The metal base contains 40% recycled material and the class A wood comes from responsibly managed forests. Moreover, Curvy is fully recyclable at the end of its life cycle.



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	natural beech back, natural beech seat
Base	Welded steel chassis
Finish	Powder coating
Technical life span	15 years
Dimensions (HxLxW)	83 x 57 x 49 cm
Weight	8.0 kg
Packaging weight	0.1 kg
Product certification	ISO7173 and ISO7174 level 4

## 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)	12.649 kg CO <sub>2</sub> eq.
GWP per unit (Cradle to Gate)	10.511 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	4.38 %
Incineration	40.43 %
Recycling	53.83 %
Re-use	1.36 %

## DOCUMENT INFORMATION

Calculation number	ReTHiNK-115345
Declaration owner	Casala
Publisher	Casala
Program operator	Casaro
LCA software	NIBE - R<THiNK LCA

Status

Valid