

# ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ACCORDING TO ISO 14025 & 15804+A2

PRODUCT: LYNX III 3582/00

**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.

## LYNX III 3582/00

The flowing, soft lines of the plastic shell mean that Lynx III can be used in various situations, for example as church and school furniture. In addition, Lynx III chairs offer the functionality of ultra-fast connectable indoor chairs: 80 chairs can be solidly connected or disconnected in 3 minutes. Lifting the chair just 10 centimeters and place it into the frame of the chair next to it, is all that is needed. No other actions or aids are needed to make a solid connection. Lynx III is available with and without armrests and can be combined with each other. The shell can also be delivered upholstered.



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	Shell plastic
Base	Welded steel chassis
Finish	Powder coating
Technical life span	15 years
Dimensions (HxLxW)	87 x 56 x 57 cm
Weight	7.86 kg
Packaging weight	0.1 kg
Product certification	EN14703

## 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)	23.916 kg CO <sub>2</sub> eq.
GWP per unit (Cradle to Gate)	25.700 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	4.92 %
Incineration	37.69 %
Recycling	50.74 %
Re-use	6.65 %

## DOCUMENT INFORMATION

Calculation number	ReTHiNK-82641
Declaration owner	Casala
Publisher	Casala
Program operator	Casaro
LCA software	NIBE - R<THiNK LCA
Status	Valid

