ENVIRONMENTAL PRODUCT DECLARATION

PROXIMA PENDANT

DESIGNED BY **MEIKE HARDE**

Please Wait to be Seated is committed to sustainability in the design and manufacture of products. This committment has allowed us to differentiate our approach and processes in several development areas.

Please Wait to be Seated has chosen to provide Environmental Product Declarations for its products, to show the environmental impact through their Life Cycle.

For more details, please visit:
www.pleasewaittobeseated.com

Shown in the picture: PROXIMA pendant in Brass

Disclaimer: This EPD was not written to support comparative assertions. EPDs are based on PCRs and different calculation models that are checked with our deisgners and manufacturers. The EPDs show the life cycle assessment and impact of products from different materials. The user should be aware of the certainty in the final results due to the quality of the source of the data in the study and software tool used to conducts the calculations.

ENVIRONMENTAL PRODUCT DECLARATION

Please Wait to be Seated A/S
Proxima Pendant EPD (Environmental Product Declaration)

This declaration is an environmental product declaration (EPD) which rely on Life Cycle Assessment (LCA) to provide information on a number of environmenal impacts of products over their life cycle. EPDs are registered documents that communicate transparent and comparable information about the life-cycle environmental impact of products in a credible way. LCAs do not address the site-specific environmental impacts of raw materials involved in the product, nor are they meant to assess human health toxicity. EPDs can complement but not replace tools and certifications that are designed to address these impacts.

PRODUCT DEFINITION & PRODUCT DESCRIPTION

Sharing its name with our next-nearest star (Proxima Centauri), this hanging glow-globe gives an ambient and diffuse, subtle yet all-around illumination that adds intimacy to your space.

The light from the PROXIMA pendant is filtered through little holes which angle the light in all directions. As it spreads through any room, its soft and cosy radiance creates a beautiful atmosphere after dark, when the party's hotting up, or when you just want to give your room a flavour of intrigue.

Designer: Meike Harde

COLOUR & MATERIAL

Eiter three sheets in Brass or three sheets in a combination of Brass, Ash Grey & Indian Red.

MEASUREMENTS

Diameter: 46 cm
Height: 47 cm
Weight: 1,5 kg

ATTRIBUTE	VALUE
Product Category	Light
Product Dimensions	H: 47 cm x D: 46 cm
Product Mass	3.70 kg (8.15 lbs.)
Post-consumer recycled content	94%

Table 1: Reference product attributes

FUNCTIONAL UNIT

The PROXIMA Pendant with its structues and its hanging glow-globe gives an ambient and diffuse light, subtle yet all-around illumination that adds intimacy to your space.

MATERIAL COMPOSITION

The material composition of the declared Please Wait to be Seated PROXIMA Pendant is given in Table 2.

MATERIAL	KG, PER LAMP	LBS, PER LAMP
Bent steel sheet	1,36	2,99
Polyester (PETa)-Molded	0,040	0,088

Table 2: Reference product materials composition

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IMPACT ASSESMENT CATEGORIES

Main emission sources (pr material group) calculated in KG is given in Table 3.

MATERIAL	TOTAL IMPACT, KG CO2 EMISSION
Metal	7,80 KG Co2-e
Surface Finish & Chemicals	7,81 KG Co2-e
Electronics	7,07 KG Co2-e
Packaging	1,57 KG Co2-e

Table 3: Main emission sources (pr material group)

LIFE CYCLE STAGES

The life cycle stages are summarized in the flow diagram shown in the figure below.
A cradle-to-gate analysis was conducted for this EPD.

- Materials aquisition and pre-processing starts when the material is extracted from nature and ends when the material reaches the production facility or service delivery stage.
- The production stage is a cradle-to-gate stage which is an assessment of a partial product life cycle from resource extraction (cradle) to the factory gate, before it is transported to the consumer. This process starts with the product components entering the production facility and ends with the final product until the delivery stage included.
- Product distribution and storage are included in the next stage, along with product usage and maintenance. This use stage begins when the consumer receive the product and it includes repair in the next 2 years of usage, after the puchase.
- The end-of-life stage starts when the product is ready for disposal, which includes the return to nature, or transformed to be a recycled or reused one.

IMPACT ASSESMENT - CLIMATE BAR

The Målbar tool calculates the total climate footprint emitted from the product. This is calculated according to the EU Product Environmental Footprint (EU PEF) rules and presented according to EN 14067 (Carbon footprints of products). The Carbon Footprint is the total quantity of greenhouse gas (GHG) emissions associated with the full lifecycle of the product.

In this case, that includes the impacts associated with raw materials and emissions from manufacturing (materials and resources), transport, in use (cleaning) impacts and impacts at end of life (reuse, recycling, incineration, landfill etc.).
The tool calculations are very accurate and will also reflect the geographical location but they are based on average material and process data.

Details about Målbar: https://www.maalbar.dk/

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Please Wait to be Seated A/S
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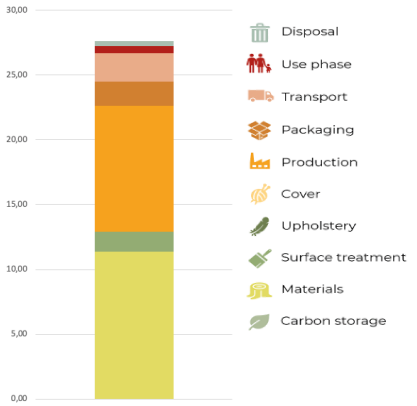
IMPACT ASSESMENT - CLIMATE BAR DATA



Total Climate emission

27,60

KG CO2-e

Choose result: Primary

MÅLBAR

This Climate emission is the approximate equivalent of:

Average car	Red steak	Flight	Streaming
128 Kilometres	2,6 Pcs 300 gram red steak	86% of climbing to altitude	169 Hours

Power	Sustainable living	Heating	Coffee
9,2 Days powering an avg. Home	72% Share of weekly sustainable emissions per person	3,6 Days heating an avg. home	81 pcs Large Café Latte

Table 4: Total Climate Emission

Main emission sources *(pr material group)*

Group	Total impact
Solid Wood	**0,00** *kg CO2-e*
Plastic	**0,00** *kg CO2-e*
Cover	**0,00** *kg CO2-e*
Standard Components	**0,00** *kg CO2-e*
Electronics	**7,07** *kg CO2-e*
Metal	**7,80** *kg CO2-e*
Packaging	**1,57** *kg CO2-e*
Upholstery	**0,00** *kg CO2-e*
Wood Based Board	**0,00** *kg CO2-e*
Surface Finish & Chemicals	**7,81** *kg CO2-e*
Glass / Stone / Ceramics	**0,00** *kg CO2-e*

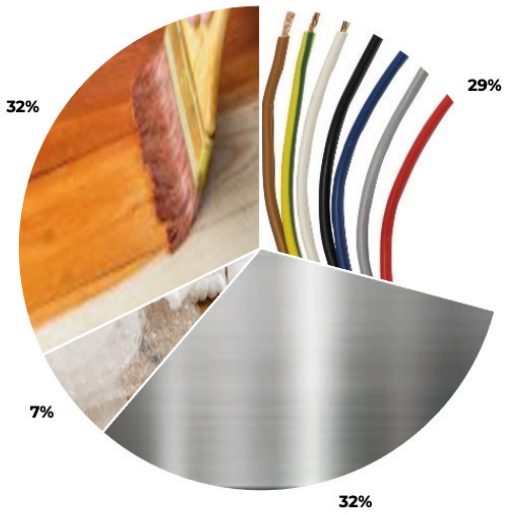


Table 5: Main emission sources (pr material group)

Main emission sources *(pr element)*

Element	Material	Total impact
Metal 2	Steel bracket/bent steel sheet	**7,71** *kg CO2-e*
Electronic component2	Power supply with cables +	**6,02** *kg CO2-e*
Surface finish,Chemicals1	Powder coating (average), m2	**4,81** *kg CO2-e*
Surface finish,Chemicals2	Zink dipped, outside use	**3,01** *kg CO2-e*
Transport leg 1	Container-Transport	**2,17** *kg CO2-e*
Main packaging	Cardboard box, printed	**1,23** *kg CO2-e*
Electronic component1	Electric cable kg	**1,05** *kg CO2-e*
Cleaning & maintenance	Cleaning & maintenance	**0,54** *kg CO2-e*
Packaging materials1	Cardboard inlay	**0,25** *kg CO2-e*
Packaging materials2	Plywood board, sustainable	**0,09** *kg CO2-e*
Metal 1	Steel screws/bolts	**0,08** *kg CO2-e*

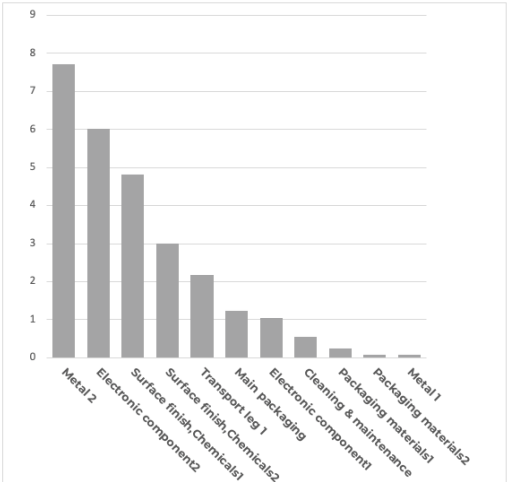


Table 6: Main emission sources

ENVIRONMENTAL PRODUCT DECLARATION

Please Wait to be Seated A/S
Proxima Pendant EPD (Environmental Product Declaration)

REFERENCES

EU PEF (2012) European Commission: Institute for Environment and Sustainability H08 Sustainability Assessment Unit, Product Environmental Footprint (PEF) Guide.

ISO. (2006) ISO 14044: Environmental management - Life Cycle assessment - Requirements and guidelines.

CONTACT INFORMATION

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