



# THE CRYSTAL TOURNIKET.

## ENVIRONMENTAL DATA SHEET

Our Crystal Tourniket is the ultimate eye-catcher. Virtually completely transparent with only a minimal stainless steel frame and patch fittings for maximum strength, it exudes elegance and style. This revolving door is available with three or four-door wings and as an element of fun or customisation, tinted glass can be used for the door wings and curved walls. In this document we present the environmental impacts of the Crystal Tourniket (TG), as well as a summarised version of the full Environmental Product Declaration (EPD).

### ENVIRONMENTAL IMPACTS

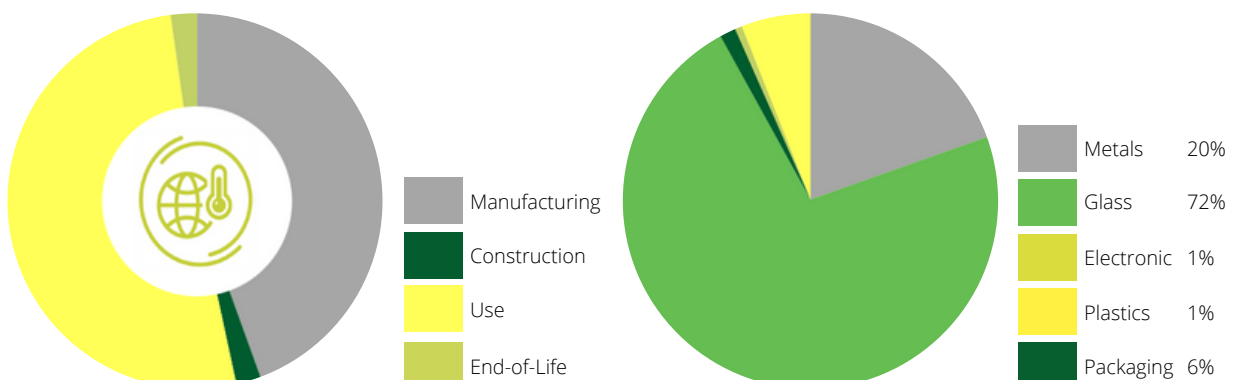
In order to get the full picture of the impact that the TG has on environment, we performed a life cycle assessment (LCA). This takes into consideration all resources and emissions involved in the manufacturing, construction, use and end-of-life.

The most dominant life cycle stage is the use phase, primarily due to the operational energy use. This is followed by the manufacturing, which contains the materials production (making the glass itself). The carbon footprint illustrates that accurately.

The manufacturing phase has a much smaller environmental impact than in our Tourniket, because it is missing the environmental impact of bauxite extraction for the aluminium. This shows the importance of the use of recycled materials and energy from renewable sources for the TGs environmental performance. Boon Edam continues to improve in both of these aspects.

### MATERIAL COMPOSITION

Glass (72%) and stainless steel (app. 20%) are the primary materials in the Crystal Tourniket door. The other materials, accounting for around 8% each, include: wood (as material in the product and as material for the packaging), plastics and electrical components.

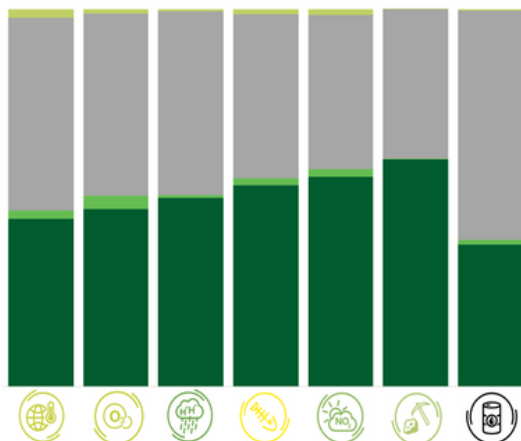
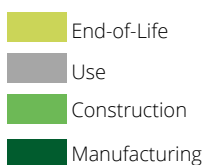




## DETAILED ENVIRONMENTAL IMPACTS

The environmental impacts of Crystal Tourniket (TG) are primarily associated with the consumption of electricity in the use phase, making energy save motors, finetuning of the settings and maintenance important aspects of the Crystal Tourniket optimization. For all indicators, production of raw materials is still a significant factor.

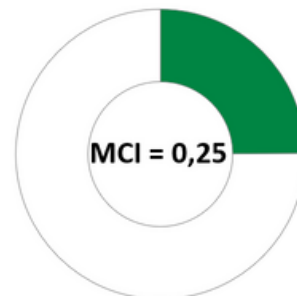
These results have been obtained with a full life cycle assessment, and published as Environmental Product Declaration (EPD), following the PCR 'Automatic doors, gates and revolving doors systems' by IBU. The full document can be accessed from IBU's repository at <https://epd-online.com/EmbeddedEpdList/Download/13135>.



## ADDITIONAL INFORMATION

### Material Circularity Index

MCI is an approach to measuring circularity of materials, here expanded to the whole product. It accounts for reused and recycled materials in the product and recovered at the end of product's life, as according to the recommendations from the Ellen MacArthur Foundation. [www.ellenmacarthurfoundation.org](http://www.ellenmacarthurfoundation.org)



Boon Edam takes steps towards being consistently more circular and sustainable.

Read about them on our website.

- Global Warming
- Ozon Depletion
- Acidification
- Eutrophication
- Ozon Formation
- Non-fossil Resources Use
- Fossil Resources Use