SUSTAINABILITY PROFILE

RAY WORK

brunner ::

PRODUCT FEATURES

Exceptionally light, height-adjustable universal swivel chair in an elegant ergonomic design with delicate closed armrests. Dynamic seating experience thanks to a flexible frame design made of plastic combined with a breathable mesh material that adapts to body movement.

Intuitive body adjustment

Slim design

All materials separable by type

Ergonomic shape

Lightweight

REFERENCE MODEL

The **ray work 9220** model was used for the following analyses as representative of the ray work product series.

The standard equipment of the model includes:

- Frame design made of glass-fibre-reinforced polyamide with flexible spring clip beneath the seat and armrests that act as additional springs. The back adapts its resistance to the weight of the user. No individual adjustment is needed. The closed armrests move backwards with the user as they lean back.
- Breathable mesh material comprising 100 % polyester that flexibly moulds to any body shape while retaining its structural integrity.
- Infinitely adjustable gas pressure springs with springiness in depth. Seat height adjustment using a lever on the side beneath the seat.
- Five-star base made of plastic with plastic casters.

OTHER MODELS IN THE SERIES

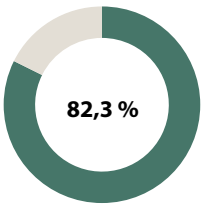
9223

9225

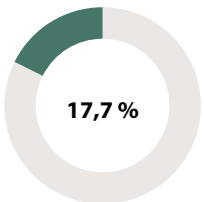
MATERIALINFORMATION

The high-quality raw materials we use in our production processes are at the heart of our furniture products. From the specification to the finished furniture product, environmental and health aspects are important to us every step of the way. It is thanks to our care and attention that our customers can rely on carefree comfort with every piece of our furniture. And we never want to stop improving, so we are forever looking or sustainable alternatives with promise for our portfolio.

Plastics	**g**	**%**
Polyamide	6656	73,4
Polyester	453	5,0
Polypropylene	345	3,8
Polyoxymethylen	8	0,1
TPU	2	0,0



Metals	**g**	**%**
Steel	1562	17,2
Aluminium	40	0,4

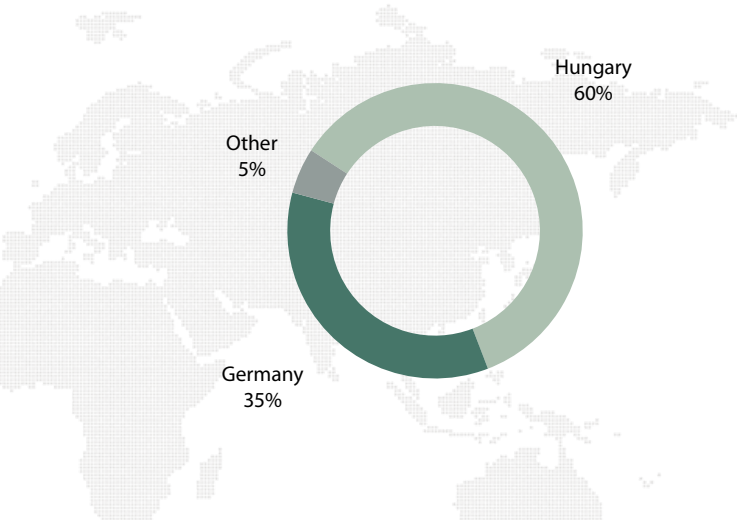


Total	**9066**	**100,0**

Packaging	**g**	**%**
Cardboard	5400	96,6
Bubble wrap	100	1,8
Stretch film	67	1,2
HDPE bag	20	0,4
Total	**5587**	**100,0**

- All materials used are REACH-compliant and do not contain any SVHC candidates above 0.1% by mass
- The following substances and compounds are not used in the manufacture of the components:
  - Halogenated organic blowing agents chlorofluorocarbons (CFCs), partially fluorinated hydrocarbons (HFCs), partially halogenated chlorofluorocarbons (HCFCs)
  - Aniline-based amines
  - Polyvinyl chlorides (PVC)
  - Conflict minerals (tin, tantalum, tungsten, gold)
  - Polycyclic aromatic hydrocarbons (PAHs)
  - Per- and polyfluoroalkyl substances (PFAS)
- Plastics with a part weight of ≥50 grams are usually labelled for recycling in accordance with ISO 11469.

SUPPLY CHAIN



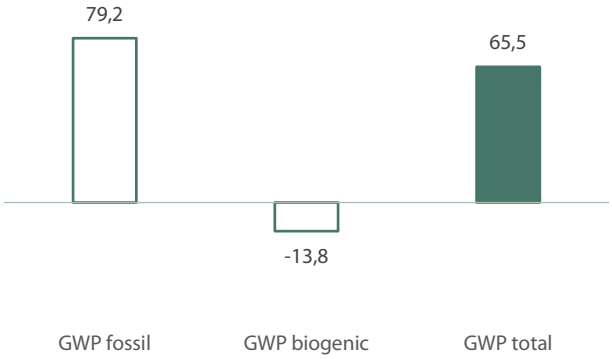
Our supply chain is characterised by a strong network within Europe, whereby we mainly rely on regional and European partners. This short supply chain enables us to operate efficiently and sustainably, as transport routes are minimised and cooperative relationships are strengthened.

The components of the ray work are manufactured in the following countries:

LIFE CYCLE ANALYSIS [1]

GWP - total	65,5 kg CO_2e
GWP - fossil	79,2 kg CO_2e
GWP - biogenic	- 13,8 kg CO_2e
Depletion of the ozone layer	1,15E-05 kg $CFC_{-11}e$
Acidification	0,33 mol H^+e
Smog	0,21 kg NMVOCe
Energy consumption	362,0 kWh
Water consumption	1,65 m^3e

CO_2 footprint [3] [kg CO_2e]

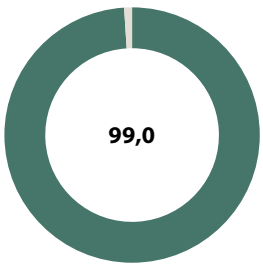


EPD Hub

A complete life cycle assessment was carried out for ray work, reviewed and published as an EPD.

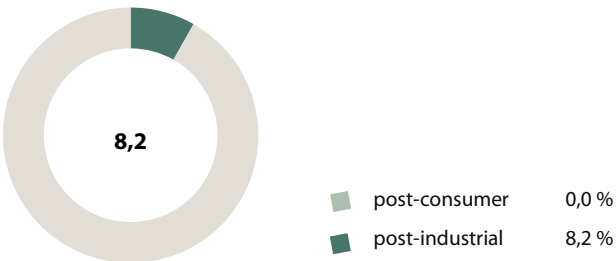
OTHER KEY FIGURES

Recyclability [3] [%]



The recyclability of a product refers to the proportion that can be fed into a recycling process at the end of its service life.

Recycled content [3] [%]



The recycled content indicates the percentage of the product that consists of already recycled material in relation to the total weight. A distinction is made between two types of recyclates. Post-consumer recyclates are obtained from end consumer waste. Post-industrial recyclates, on the other hand, are based on plastic waste generated during the processing of plastics. As post-industrial recyclates are produced by businesses, they are also referred to as pre-consumer recyclates.

[1] A1-A3, according to EN 15804+A2

[2] A1-A3 according to EN 15804+A2. The basis for the calculation is the functional unit (defined as the product unit), which is determined by the total weight of the product. The cradle-to-grave perspective is applied.

[3] The efficiency of recycling varies depending on the type of material. Our calculations on recyclability are therefore based on information from suppliers, industry organisations or industry averages. It should be noted that the potential for recycling may vary depending on the applicable local regulations. Adhesives, paints, oils and lubricating greases are excluded from recyclability. These are disregarded in the list of materials due to the small quantities involved.

[4] The recycled content is calculated in relation to the total weight of the product without packaging. The determination of the value is based on information from suppliers and other available sources. The information may be industry averages, industry standard values or other data. However, changes in the market or in the manufacturing processes can influence the values in different directions.

CERTIFICATIONS & LABELS

The certifications, labels and declarations listed below are available for ray work.

Product-related

EPD
A complete life cycle assessment was carried out for ray work, reviewed and published as an EPD.

Material-related

EU Ecolabel
Approximately half of all fabrics in our standard range are certified with the EU Ecolabel.

OEKO-TEX®
Some of the fabrics in our standard range have been awarded the OEKO-TEX® certificate.

Greenguard Gold
Most of the textiles supplied by Kvadrat in our standard range have been awarded the Greenguard Gold certificate.

Blue Angel
Both our leather collections are certified with the Blue Angel.

CONTRIBUTIONS TO BUILDING CERTIFICATIONS

Brunner products can contribute to points for sustainable building certification, such as LEED and WELL, due to various features. We will be happy to assist you if you require further information.

FURTHER INFO & CONTACT

Further information on sustainability at Brunner can be found online at brunner-group.com

To the product data sheet

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