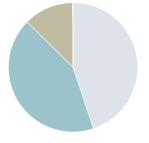
## se:flex

## **Environmental Product Information**



ef-230/7201-M/3110/8002-100/2800/4ST

## Materials and proportions



## Features

- · Backrest with membrane cover
- · Armrests made of plastic
- · Steel frame not stackable, chromed
- · Plastic glides
- Upholstery fabric Step
- · 10-year availability of spare parts
- · 5-year guarantee (see Sedus Warranty Terms)

### Production

- · Covers not glued into place
- · CFC-free foams
- · Galvanisation with chrome III
- $\cdot\,$  Use of certified upholstery fabrics in accordance with OEKO-TEX Standard 100
- · Produced using 100% green electricity
- $\cdot\,$  Produced in accordance with EMAS III Environmental management
- · Produced in accordance with DIN ISO 14001 Environmental management
- · Produced in accordance with DIN EN 45001 Occupational safety

## Recycling content/recyclable materials

	kg	%	
Recycling content (post-consumer)	3.29	36.20	
	kg	%	
Recycling of materials	4.23	46.60	
Thermal recycling	4.85	53.40	
Recycling overall		99 %	

The recycled materials and the recyclability of materials are determined based on data from experts and specialist organisations. When determining recycling values, Sedus uses conservative practice-oriented values and not merely the theoretically possible values. The figures shown include our products' packaging. This fact sheet is checked regularly and may be changed without giving prior notice. The most recent version can be downloaded from our homepage at any time.

## Standards/certificates



Sedus has been committed to the principles of sustainable corporate governance of the United Nations Global Compact and its principles in terms of human rights, labour, the environment and anti-corruption since 2017.



sedus

Comprehensive sustainability report (GRI Report): www.sedus.com The life cycle assessment was prepared in accordance with DIN EN 15804. Contact: nachhaltigkeit@sedus.com

Metals | 44.9 %
Plastics | 42.5 %
Fibreglass | 12.5 %
Wood | 0 %
Electronics | 0 %

■ Other | 0.1 %

## se:flex Environmental Product Information

## sedus



Statement

We develop products which bring together first-class quality, design, ergonomics, durability as well as ecological and economic standards in a balanced and unmistakable way – perfectly in line with our customers' needs. To this end, we set high standards for each life phase of the product.

We purchase around two thirds of the steel, aluminium and wood which we require to produce our products in Germany and almost all the rest from Europe, this helps us to avoid long delivery routes whilst, at the same time, boosting the local economy. We use materials which have been tested and assessed with respect to potentially adverse effects on human health and the environment.

## **REACH Regulation**

This product contains no substances as per the candidate list of the REACH Regulation, Annex XIV, above the limit value of 0.1% mass percent.

## Electrical appliance law

WEEE Reg No. DE 15163456 Electrical components were registered by Sedus or our suppliers as per the Electrical appliance law.

### **Materials**

Composition of the materials used for the model: ef-230/7201-M/3110/8002-100/2800/4ST Reference quantity: 1 unit

### **Metals**

		kg	%
Steel		4.01	44.89
	110%		

#### **Plastics**

	kg	%	
Polypropylene (PP)	2.90	32.41	
PUR foam	0.38	4.27	
Polyester fabric	0.45	5.04	
Various plastics	<0.10	0.81	

42.5 %

## Other materials

	kg	%	
Fibreglass	1.12	12.53	
Wood	0.00	0.00	
Electronics	0.00	0.00	
Various materials	<0.10	0.06	

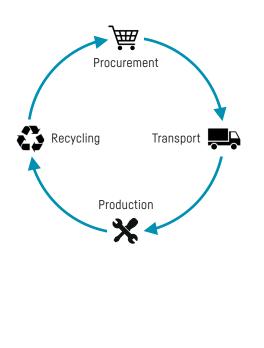
#### 12.6 %

Total weight (without packaging) 8.93 kg

Disclaimer: The material list given may not include all the materials used in this product (e.g. adhesives, coatings, residues etc.).

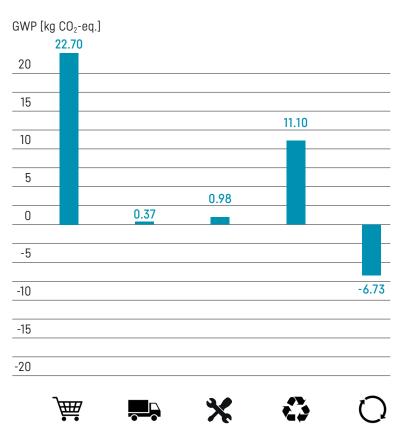
## se:flex Environmental Product Information

# sedus



Material cycle

## Global warming potential within the product life cycle



## Procurement and transport

It is always in Sedus' interest to purchase resources and production means from nearby partners whenever this is economically viable. Communication is easier, there are no customs duties or currency risks and shorter shipping routes are less harmful for the environment. That's why, our most important supplier country is Germany followed by other European states. The percentage of deliveries from non-European countries was less than 3% in 2018. The proximity of the suppliers results in short shipping routes.

## Production

Sedus is characterised by its impressive vertical range of manufacture. Key, environmentally relevant processes thus take place in our production facilities which are subject to regular certification.

## Waste management and recycling

Sedus works exclusively with certified specialist disposal firms which it audits at regular intervals. It has worked closely with a complete disposer since 2013. We recycle paper, cardboard, plastic, glass, wood and metal at all sites. To avoid waste, the rejection rate during the production process is monitored and continually improved.

## Creator of the life cycle assessment

thinkstep AG, Hauptstraße 111-113, 70771 Leinfelden-Echterdingen, Germany

## se:flex Environmental Product Information

NRSF Use of non renewable secondary fuels

FW Use of net fresh water

# sedus

Life cycle		Ì		Ŵ	$\bigcirc$
ENVIRONMENTAL IMPACTS	Unit	A1-A3	C 3	C4	D
GWP Global warming potential	[kg CO <sub>2</sub> -eq.]	2.40E+01	1.11E+01	1.53E-02	-6.73E+00
ODP Ozone depletion potential	[kg CFC-11-eq.]	7.00E-10	1.13E-15	8.39E-17	-6.48E-14
AP Acidification potential	[kg SO <sub>2</sub> -eq.]	2.11E-01	9.67E-04	9.70E-05	-9.49E-03
EP Eutrophication potential	[kg PO4 <sup>3-</sup> -eq.]	6.06E-03	2.25E-04	1.09E-05	-1.09E-03
POCP Photochemical ozone creation potential	[kg ethene-eq.]	1.19E-02	8.73E-05	7.35E-06	-1.07E-03
ADPE Abiotic depletion potential for non fossil resources	[kg Sb-eq.]	4.04E-06	1.42E-08	1.54E-09	-8.80E-07
ADPF Abiotic depletion potential for fossil resources	[MJ]	4.46E+02	1.31E+00	2.16E-01	-8.46E+01
RESOURCE USE	Unit	A1-A3	C3	C4	D
<b>PERE</b> Use of renewable primary energy excluding renewable primary energy resources used as raw materials	[MJ]	7.91E+01	3.96E-01	2.92E-02	-1.84E+01
<b>PERM</b> Use of renewable primary energy resources used as raw materials	[MJ]	1.18E-01	-1.18E-01	0.00E+00	0.00E+00
PERT Total use of renewable primary energy resources	[MJ]	7.93E+01	2.78E-01	2.92E-02	-1.84E+01
<b>PENRE</b> Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials	[MJ]	3.17E+02	1.57E+02	2.23E-01	-1.02E+02
<b>PENRM</b> Use of non renewable primary energy resources used as raw materials	[MJ]	1.55E+02	-1.55E+02	0.00E+00	0.00E+00
<b>PENRT</b> Total use of non renewable primary energy resources	[MJ]	4.73E+02	1.53E+00	2.23E-01	-1.02E+02
SM Use of secondary material	[kg]	3.20E+00	0.00E+00	0.00E+00	0.00E+00
<b>RSF</b> Use of renewable secondary fuels	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00

OUTPUT FLOWS AND WASTE CATEGORIES	Unit	A1-A3	C 3	C4	D
HWD Hazardous waste disposed	[kg]	4.12E-07	1.01E-09	3.40E-09	-4.58E-08
NHWD Non hazardous waste disposed	[kg]	2.20E+00	4.65E-02	1.12E+00	-6.40E-02
<b>RWD</b> Radioactive waste disposed	[kg]	9.51E-03	8.53E-05	2.54E-06	-6.54E-03
CRU Components for re-use	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR Materials for recycling	[kg]	0.00E+00	8.11E-01	0.00E+00	0.00E+00
MER Materials for energy recovery	[kg]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE Exported electrical energy	[MJ]	0.00E+00	2.26E+01	0.00E+00	0.00E+00
EET Exported thermal energy	[MJ]	0.00E+00	4.02E+01	0.00E+00	0.00E+00

0.00E+00

1.51E-01

0.00E+00

2.41E-02

0.00E+00

5.62E-05

0.00E+00

-2.40E-02

[MJ]

[m³]

## LEED® V4.1 Contributions\*

#### **BD+C BUILDING DESIGN AND CONSTRUCTION**

Credit		Contribution
MR Credit Building Product Disclosure and Optimization – Environmental Product Declarations	<b>Option 1</b> Environmental Product Declaration (1 point)	An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.
MR Credit Building Product Disclosure and Optimization – Sourcing of Raw Materials	Responsible Sourcing of Raw Materials [1-2 points]	The percentage of the recycled material is indicated on the corresponding EPI on page 1.
<b>MR Credit</b> Furniture and Medical Furnishings	Option 1 Minimal Chemical Content Option 3 Multi-Attribute Assessment of Products (1-2 points)	<b>Option 1</b> The product contains no or less than 100 ppm of urea formaldehyde, hexavalent chromium, heavy metals, PFCs or PFOA, or added antimicrobial treatments. <b>Option 3</b> An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.
MR Prerequisite Construction and Demolition Waste Management Planning	Develop and implement a construction and demolition waste management plan.	Almost entirely recyclable or reusable transport packaging is used. Disused products are taken back by agreement. The products can be efficiently recycled thanks to easily dismantled components with material identification.
EQ Credit Low-Emitting Materials	Furniture (1–3 points)	A greenguard certificate is available for this product.

#### **ID+C INTERIOR DESIGN AND CONSTRUCTION**

Credit		Contribution
MR Credit Interiors Life-Cycle Impact Reduction	<b>Option 2</b> Furniture Reuse (1 point)	<b>Option 2</b> Sedus products are designed for a long lifetime. They can be reused for several years after a removal or change
	<b>Option 3</b> Design for Flexibility (1-2 points)	of space. <b>Option 3</b> The Sedus product consists of reconfigurable modules or components so that it can be adapted to new room requirements.
MR Credit Building Product Disclosure and Optimization – Environmental Product Declarations	<b>Option 1</b> Environmental Product Declaration (1 point)	An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.
MR Credit Building Product Disclosure and Optimization – Sourcing of Raw Materials	Responsible Sourcing of Raw Materials [1-2 points]	The percentage of the recycled material is indicated on the corresponding EPI on page 1.
MR Prerequisite Construction and Demolition Waste Management Planning	Develop and implement a construction and demolition waste management plan.	Almost entirely recyclable or reusable transport packaging is used. Disused products are taken back by agreement. The products can be efficiently recycled thanks to easily dismantled components with material identification.
EQ Credit Low-Emitting Materials	Furniture (1-3 points)	A greenguard certificate is available for this product.
EQ Credit Quality Views	Give building occupants a connection to the natural outdoor environment by providing quality views (1 point)	The meaningful dimensioning of Sedus products can help to ensure quality views with the help of appropriate spatial planning.

#### **0+M BUILDING OPERATIONS AND MAINTENANCE**

Credit		Contribution
MR Credit Purchasing	<b>Option 2</b> Building Materials (1-2 points)	An internally critically reviewed LCA in accordance with DIN EN 15804 is available for the product.

\* Potentially possible contribution assessed on the basis of the relevant LEED® V4.1 rating systems.

The contribution may vary depending on the actual rating criteria used and the individual product configuration.

Source: www.usgbc.org

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