

Seating for public areas, acc. to EN 16139, EN 1022 and EN 1728

batch Sled base chair stackable





# wiesner hager



## **Environmental Product Declaration**

EPD

Design: Andreas Krob

Viesner-Hager Möbel GmbH	Manufacturer
inzer Straße 22	Declaration holder
A-4950 Altheim	
Tel. 0043 7723 460-0	
http://www.wiesner-hager.com/en/	
TA 22012 1634 6800-200 03297740370	EPD number
8800-200 batch	Declared product
patch Sled base chair stackable	
This declaration was compiled according to ISO 14025 and EN 15804 type B. It	Purpose
lescribes the environmental rating of the listed product and gives the possibility	
o compare it with other similar products.	
The content of this declaration is based on the results of the operational life cycle	Data origin
assessment, according to EN ISO 14040/44 of the fiscal year 2022/23. The used	
peneric data comes from acknowledged life cycle management databases and	
current EPD's of the declaration holders upstream products and are calculated	
ising the CML method.	
https://www.wiesner-hager.com/en/about-us/sustainability/life-cycle-assessment/	
The procedure to compile this declaration was audited on 14 th September 2023	Auditing
by TÜV Austria GmbH.	
DiplIng. Dr. Jürgen Hain, TÜV Austria GmbH, Wien	Auditor
By means of the certificate TA 22012 1634 from 26 th September 2023, TÜV	Certification
Austria GmbH authorizes the declaration holder to generate EPD type III.	
Download certificate	
The certificate is valid until 30 th September 2026. The compliance of the	Validity
equirements will be ensured by annual, internal and external evaluations.	
Gerhard Steigthaler, Master of Sciene, environmental engineer	Issuer
29. February 2024	Date of issue

- Picture	laration includes s, descriptions and fulfilled standards		Conten
	ation about life cycle assessment		
	c characteristics of the product configuration		
-	ors of the life cycle and impact assessment		
- Details	on the material composition of the product		
- Informa	ation about material certificates of the used raw materials		
- Recycli	ing potentials		
	essment of the declared product covers the whole lifecycle proce		Investigatio
	materials, manufacturing and disposal, including all transporta		fram
	cipated lifespan of the product is 15 years, assuming the product		
	ine with the manufacturer's guidance and for the application it was		
	d and intended. As a result of the high product quality, no repairs acted during the lifetime and no environmental impact is anticipat		
	ling is carried out in line with European standards.	.eu.	
-	ent parts are separated and recycled accordingly and any remai	ning	
-	aterial is incinerated under strict controls for the generation of er	-	
	port distances including those of our suppliers and subcontractor	••	
-	idered; all distances are calculated using route planning softwar		
	ance between the declaration holder and the end user is 500 km		
the aver	age distance between the end user and the waste management		
company	y is calculated at 50 km.		
The stan	dard EN 15804 describes the basic rules for the preparation of	anviron-	Syste
			boundarie
mantal n	iroduct declarations for huilding materials. Furniture are still irrela		
-	product declarations for building materials. Furniture are still irrele		boundarie
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for susta transpare lifecycles Phase A1 A2 A3 A4 A4 A5 B1 B2 B3 B4 B5 B6 B7 C1 C2 C3 C4 D	inability certifications of buildings, however we try to assign the lency of this standard to our furniture as far as possible. The follows are considered in this document:  Name of lifcycle raw material supply and processing transportation to the manufacturer of precursor products production of precursor products transportation to building site transportation of the product to the end user *) manufacturing of the product ***) use of the product ***) maintenance repair substitute renovation energy consumption for technical building equipment water consumption for technical building equipment demolition transportation to waste treatment waste treatment landfilling recycling potential	relevant yes yes yes no yes yes no no no no no no no no no ses yes yes yes yes yes yes yes yes yes	Doundarie

Functional unit	The general information of the LCA refers to whole lifecycle, beginning with the raw material make, the manufacturing of the product until the disposal of <i>one</i> unit of the product with an anticipated lifespan of 15 years. But the division of impact factors with the masses of the product allowes also a specific statement in mass.
Application	Seating for public areas, acc. to EN 16139, EN 1022 and EN 1728
Identification of	6800-200 batch
product	batch Sled base chair stackable, plastic seat shell, not upholstered
Description of	Hard core, soft shell. With the skid-base chair batch, Wiesner-Hager has
product	succeeded in combining a minimalist approach to design with technological sophistication: The graphic two-component shell has a hard core and a soft outer shell. This is why batch offers excellent sitting comfort despite its flat design – the usual pressure points on the edges cannot be felt. The possibility of densely stacking up to 30 chairs at a height of only 2 metres is the prerequisite for space-saving storage. The rows are connected by means of a linking element integrated into the frame glides.
Configuration of	colour of plastic 72 black; colour of metal chrome; leg finish plastic glides

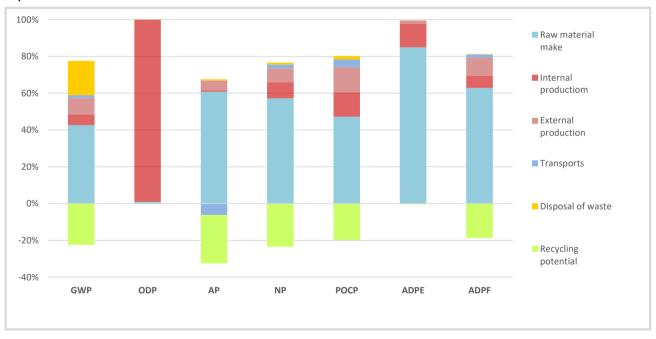
## **Eco-balance indicators**

LCA Indicators		Global	Ozone	Acidifi-	Nutrifi-	Ozone	Abiotic
		warming	depletion	cation	cation	creation	resources
		GWP	ODP	AP	NP	POCP	ADPE
		CO2 eq.	CCI3F eq.	SO2 eq.	PO4-3 eq.	C2H4 eq.	Sb eq.
Lifecycle		(kg)	(mg)	(g)	(g)	(g)	(g)
Raw material make	A1-A3	18,95	0,00	5,04	42,63	4,26	0,27
Transportation	A4	0,38	0,00	-0,29	0,87	0,21	0,00
Internal production	A5	2,59	0,00	0,06	6,50	1,19	0,04
Sub-contracting	A5	3,96	0,00	0,4	5,54	1,24	0,00
Transport to the end user	A4	0,27	0,00	-0,20	0,62	0,15	0,00
Waste treatment	C2-C4	8,33	0,00	0,03	0,84	0,18	0,00
Recycling potential D		-9,96	0,00	-2,18	-17,43	-1,79	0,00
Total		24,51	0,00	2,91	39,57	5,44	0,31

Use of resources		Abiotic	Primary energ	gy renewable	Primary energy fossil		Use
		fossil	energy	material	energy	material	recycled
		fuels	carrier	use	carrier	use	fibre
		ADPF	PERE	PERM	PENRE	PENRM	SM
Lifecycle		(MJ)	(MJ)	(MJ)	(MJ)	(MJ)	(kg)
Raw material make	A1-A3	334,27	39,18	2,69	219,94	126,39	0,75
Transportation	A4	5,08	0,30	0,00	5,09	0,00	0,00
Internal production A5		35,45	20,89	0,10	34,93	0,73	0,01
Sub-contracting	A5	51,97	20,35	0,00	58,26	0,00	0,00
Transport to the end user	A4	3,62	0,22	0,00	3,63	0,00	0,00
Waste treatment	C2-C4	1,81	0,32	0,00	127,31	-125,40	0,00
Recycling potential D		-99,35	-10,47	0,00	-102,03	0,00	0,00
Total		332,84	70,78	2,78	347,14	1,72	0,76

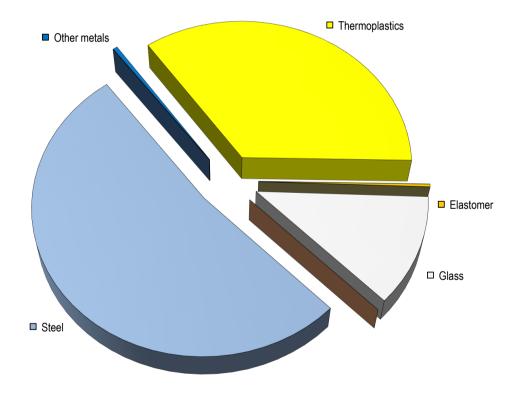
		Recycl	ed fuels	Use	Waste		
Use of resources /		renewable	fossil	sweetwater	dangerous	no	radioactive
waste				resources	waste site	dangerous	waste
		(RSF)	(NRSF)	FW	(HWD)	(NHWD)	(RWD)
Lifecycle		(MJ)	(MJ)	(m³)	(kg)	(kg)	(kg)
Raw material make	A1-A3	0,00	0,00	0,05	0,00	0,43	0,00
Transportation	A4	0,00	0,00	0,00	0,00	0,00	0,00
Internal production	A5	0,00	0,00	0,02	0,00	0,03	0,00
Sub-contracting	A5	0,00	0,00	0,01	0,00	0,19	0,00
Transport to the end user	A4	0,00	0,00	0,00	0,00	0,00	0,00
Waste treatment	C2-C4	0,00	0,00	0,02	0,00	0,72	0,00
Recycling potential D		0,00	0,00	-0,01	0,00	-0,12	0,00
Total		0,00	0,00	0,08	0,00	1,25	0,01

## Impact contribution



Material composition				Recycling content		
Materials	Weight	Share	material	energetic	disposal	[]
Steel	3,779	52,2%	3,703	0,000	0,076	kg
Aluminium						
Other metals	0,032	0,4%	0,031	0,000	0,001	kg
Thermoplastics	2,538	35,1%	0,170	2,114	0,254	kg
Duromer						
Elastomer	0,020	0,3%	0,000	0,018	0,001	kg
Laminated plastics						
Wood-Plastic Composites						
Solid wood						
Derived timber product						
Paper, -board						
Leather						
Other renewable materials						
Glass	0,863	11,9%	0,538	0,000	0,325	kg
Other mineral materials						
Laquer and adhesives	0,001	0,0%	0,000	0,001	0,000	kg
Chemicals						
Auxiliaries						
Total	7,232	100,0%	4,442	2,133	0,657	kg

## **Material composition**



The proportion of secondary raw material in this product is 33%.

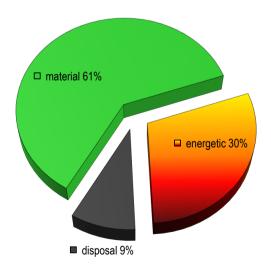
### Use of laquer and adhesives

Application	Chemical characterisation	Weight <sup>1</sup>	VOC <sup>2</sup>	Classific.3
Wood glues	-	-	-	-
Hotmelt adhesives	-	-	-	-
Fabric glues	-	-	-	-
Assembly adhesives	Instant adhesive	0,0004 kg	3,0%	no
Stains	-	-	-	-
Water-based varnish	-	-	-	-
Powder coatings	-	-	-	-
Solvent-based varnis	-	-	-	-

The product is free of halogenated plastics (PVC).

 $$^{1}$\,dry$  matter  $$^{2}$\,uncured$   $^{3}$  acc. EG Reg. No 1272/2008

## Recycling rate (EoL)



The chart shows the presently usual recycling rate in Western Europe, based on the used material mix.

The thermal recycling will release energy to the amount of 100 MJ. This is equivalent to 2,8 litre of light fuel oil.

The remaining ash from the incineration will be disposed of in a landfill.

### Publisher and picture credits

Wiesner-Hager Möbel GmbH Linzer Straße 22 A- 4950 Altheim Tel. +43 7723 460 0

eMail: altheim@wiesner-hager.com

https://www.wiesner-hager.com/en/contact/



#### Certification

TÜV Austria Cert GmbH Krugerstraße 16 1015 Wien Search product certificates





#### **Specialist counselling**

Denkstatt GmbH Environmental consulting Hietzinger Hauptstraße 28 1130 Wien

https://denkstatt.eu/?lang=en

