

Seating for public areas, acc. to EN 16139, EN 1022, EN 1728 and DIN 4573

reddot design award 2015 honourable mention nooi Frame linking chair





# wiesner hager



## **Environmental Product Declaration**

EPD

Design: neunzig° design

Manufacturer	Wiesner-Hager Möbel GmbH
Declaration holder	Linzer Straße 22
	A-4950 Altheim
	Tel. 0043 7723 460-0
	http://www.wiesner-hager.com/en/
EPD number	TA 22012 1634 6600-200 03297740320
Declared product	6600-200 nooi
	nooi Frame linking chair
Purpose	This declaration was compiled according to ISO 14025 and EN 15804 type B. It
	describes the environmental rating of the listed product and gives the possibility
	to compare it with other similar products.
Data origin	The content of this declaration is based on the results of the operational life cycle
	assessment, according to EN ISO 14040/44 of the fiscal year 2022/23. The used
	generic data comes from acknowledged life cycle management databases and
	current EPD's of the declaration holders upstream products and are calculated
	using the CML method.
	https://www.wiesner-hager.com/en/about-us/sustainability/life-cycle-assessment/
Auditing	The procedure to compile this declaration was audited on 14 th September 2023
	by TÜV Austria GmbH.
Auditor	DiplIng. Dr. Jürgen Hain, TÜV Austria GmbH, Wien
Certification	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
	Bowindad derundate
Validity	The certificate is valid until 30 th September 2026. The compliance of the
	requirements will be ensured by annual, internal and external evaluations.
Issuer	Gerhard Steigthaler, Master of Sciene, environmental engineer

- Picture	elaration includes s, descriptions and fulfilled standards		Conter
	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 produc		
	ine with the manufacturer's guidance and for the application it w		
	d and intended. As a result of the high product quality, no repairs ected during the lifetime and no environmental impact is anticipat		
	ling is carried out in line with European standards.	ieu.	
-	ent parts are separated and recycled accordingly and any remain	ining	
-	aterial is incinerated under strict controls for the generation of er	-	
	port distances including those of our suppliers and subcontracto		
	sidered; 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		
compan	y is calculated at 50 km.		
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			_
	rnalict applarations for hilliaina materials. Filthitilia are still irrela		houndaria
-	product declarations for building materials. Furniture are still irrele		boundarie
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for susta transpar lifecycles Phase A1 A2 A3 A4 A4 A5 B1 B2 B3 B4 B5 B6 B7 C1 C2 C3 C4 D	ency 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 yes	boundarie

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.	Functional unit
Seating for public areas, acc. to EN 16139, EN 1022, EN 1728 and DIN 4573 reddot design award 2015 honourable mention	Application
6600-200 nooi	Identification of
nooi Frame linking chair, polypropylene seat shell, not upholstered	product
With nooi, Wiesner-Hager presents an innovative frame linking chair: simple and quick to handle, aesthetic and clear in design. Developed by neunzigo design, the chair range stems from the idea of creating a chair with one shell form and different frame options to suit all main communication areas. nooi is the perfect solution for hall seating, cafeterias, canteens and waiting areas, as well as seminar and training rooms. Highly versatile, nooi offers scope to create a consistent look throughout the office and building architecture. The shell is available in plywood or polypropylene and with different upholstery options. The ten different colour combinations available for the plastic seat shell offer ample creative freedom for interior design. The outside of the plastic shell always features a high gloss finish.	Description of product
colour of plastic 72 black; col.plastic frame pad/arm pad 95 black; colour of plastic glides 95 black; colour of metal chrome; leg finish plastic glides	Configuration of

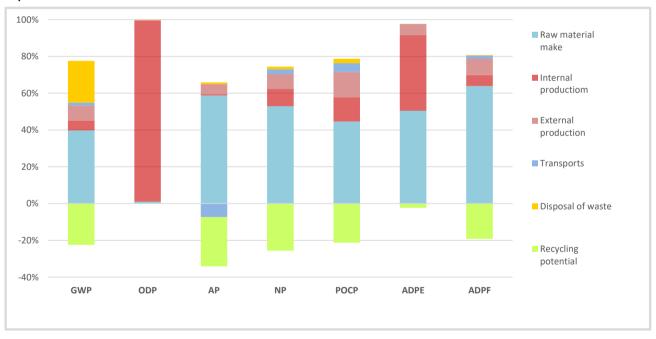
## **Eco-balance indicators**

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	14,77	0,00	3,68	28,14	3,08	0,04
Transportation	A4	0,40	0,00	-0,30	0,92	0,22	0,00
Internal production	A5	1,97	0,00	0,05	4,99	0,91	0,03
Sub-contracting	A5	3,04	0,00	0,3	4,25	0,95	0,00
Transport to the end user	A4	0,18	0,00	-0,14	0,41	0,10	0,00
Waste treatment C2-C4		8,47	0,00	0,04	0,82	0,18	0,00
Recycling potential D		-8,33	0,00	-1,67	-13,59	-1,47	0,00
Total		20,49	0,00	1,98	25,95	3,97	0,07

		Abiotic	Primary energ	gy renewable	Primary er	ergy fossil	Use
Use of resources		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	288,95	32,46	2,48	171,77	127,11	0,64
Transportation	A4	5,39	0,32	0,00	5,41	0,00	0,00
Internal production	A5	26,99	15,54	0,08	26,60	0,56	0,00
Sub-contracting	A5	39,89	15,62	0,00	44,72	0,00	0,00
Transport to the end user	A4	2,42	0,15	0,00	2,43	0,00	0,00
Waste treatment	C2-C4	1,61	0,28	0,00	128,78	-127,08	0,00
Recycling potential D		-86,85	-12,23	0,00	-90,20	0,00	0,00
Total		278,41	52,14	2,56	289,51	0,59	0,65

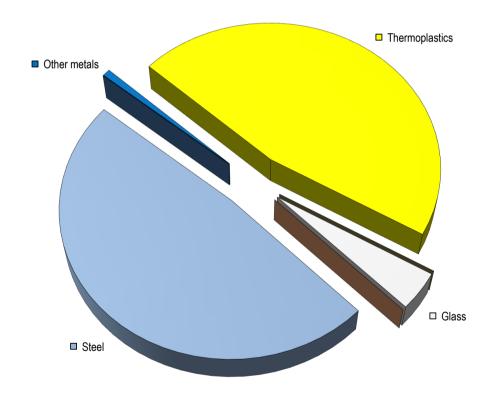
	Recycl	ed fuels	Use		Waste		
Use of resources /		renewable	fossil	sweetwater	dangerous	no	radioactive
waste				resources	waste site	dangerous	waste
		(RSF)	(NRSF)	FW	(HWD)	(NHWD)	(RWD)
Lifecycle		(MJ)	(MJ)	(m³)	(kg)	(kg)	(kg)
Raw material make	A1-A3	0,00	0,00	0,04	0,00	0,25	0,00
Transportation	A4	0,00	0,00	0,00	0,00	0,00	0,00
Internal production	A5	0,00	0,00	0,02	0,00	0,02	0,00
Sub-contracting	A5	0,00	0,00	0,01	0,00	0,14	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	0,62	0,00
Recycling potential	D	0,00	0,00	-0,01	0,00	-0,09	0,00
Total		0,00	0,00	0,07	0,00	0,94	0,00

## Impact contribution



Material o		Recycling	content			
Materials	Weight	Share	material	energetic	disposal	[]
Steel	2,713	48,4%	2,659	0,000	0,054	kg
Aluminium						
Other metals	0,044	0,8%	0,043	0,000	0,001	kg
Thermoplastics	2,617	46,7%	0,175	2,180	0,262	kg
Duromer						
Elastomer						
Laminated plastics						
Wood-Plastic Composites						
Solid wood						
Derived timber product						
Paper, -board						
Leather						
Other renewable materials						
Glass	0,231	4,1%	0,144	0,000	0,087	kg
Other mineral materials						
Laquer and adhesives	0,001	0,0%	0,000	0,001	0,000	kg
Chemicals						
Auxiliaries						
Total	5,606	100,0%	3,021	2,181	0,404	kg

## **Material composition**



The proportion of secondary raw material in this product is 25%.

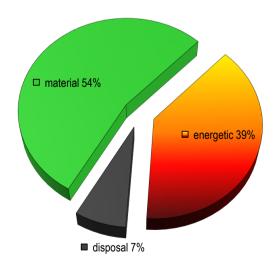
### Use of laquer and adhesives

Application	Chemical characterisation	Weight <sup>1</sup>	VOC <sup>2</sup>	Classific.3
Wood glues	-	-	-	-
Hotmelt adhesives	-	-	-	-
Fabric glues	-	-	-	-
Assembly adhesives	Instant adhesive	0,00076 kg	0,0%	no
Stains	-	-	-	-
Water-based varnish	-	-	-	-
Powder coatings	-	-	-	-
Solvent-based varnis	-	-	-	-

The product is free of halogenated plastics (PVC).

 $$^{1}\,\mbox{dry}$  matter  $$^{2}\,\mbox{uncured}$$  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 102 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

