

Office swivel chair, acc. to EN 1335-1, EN 1335-2 and EN 1335-3

dely Swivel chair with aluminium arms





wiesner hager



Environmental Product Declaration

EPD

Design: Andreas Krob

Wiesner-Hager Möbel GmbH	Manufacturer
Linzer Straße 22	Declaration holder
A-4950 Altheim	
Tel. 0043 7723 460-0	
http://www.wiesner-hager.com/en/	
TA 22012 1634 5440-103 03297740100	EPD number
5440-103 delv	Declared product
delv Swivel chair with aluminium arms	
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.	Purpose
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/	Data origin
The procedure to compile this declaration was audited on 14 th September 2023 by TÜV Austria GmbH.	Auditing
DiplIng. Dr. Jürgen Hain, TÜV Austria GmbH, Wien	Auditor
By means of the certificate TA 22012 1634 from 26 th September 2023, TÜV Austria GmbH authorizes the declaration holder to generate EPD type III. Download certificate	Certification
The certificate is valid until 30 th September 2026. The compliance of the	Validity
requirements will be ensured by annual, internal and external evaluations.	
Gerhard Steigthaler, Master of Sciene, environmental engineer	Issuer
29. February 2024	Date of issue

- 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.		
The star	ndard EN 15804 describes the basic rules for the preparation of	environ-	Syster
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-	product declarations for building materials. Furniture are still irrele		boundarie
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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
Office swivel chair, acc. to EN 1335-1, EN 1335-2 and EN 1335-3	Application
5440-103 delv delv Swivel chair with aluminium arms, seat and back upholstered	Identification of product
The smart conference chair. The innovative, ergonomic design of the delv conference swivel chair combines a dynamic seating philosophy with trendsetting kinetics: the new twist-balance mechanism replaces conventional mechanisms and enhances ergonomic performance. It scores with 360° mobility of the seat and back. At the same time, it promotes the micro-movements of the spinal column and stimulates the supply of nutrients to the intervertebral discs. delv adapts to its users- thanks to the automatic weight detection. This is of particular advantage during conferences and desk sharing, when several people use the smart conference chair. The combination of top-quality materials, ergonomic innovation and contemporary design makes delv the ideal choice for use in prestigious offices.	Description of product
cover 1 fabric S3140 plain black; colour of metal arms 55 eloxal silver; colour of metal polished aluminium; leg finish universal castors; colour of plastic castors 9 glossy black	Configuration of

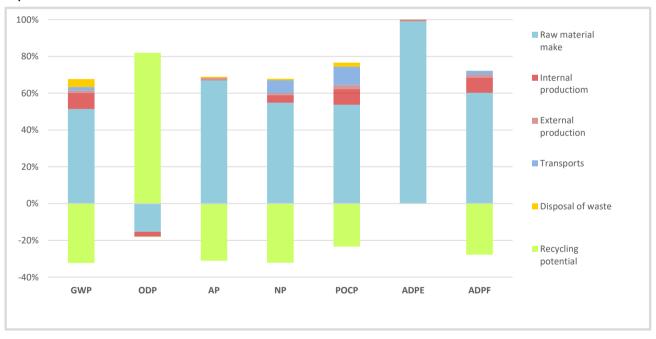
Eco-balance indicators

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	90,99	0,14	25,56	277,54	25,19	19,30
Transportation	A4	2,58	0,00	0,48	34,20	4,25	0,00
Internal production	A5	15,35	0,02	0,15	21,35	3,96	0,10
Sub-contracting	A5	0,18	0,00	0,0	0,29	0,05	0,03
Transport to the end user	A4	0,74	0,00	-0,56	1,69	0,40	0,00
Waste treatment	C2-C4	7,70	0,00	0,17	4,18	1,08	0,00
Recycling potential	D	-57,26	-0,75	-11,70	-162,84	-10,96	0,00
Total		60,28	-0,59	14,12	176,40	23,97	19,43

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	1 260,72	460,06	117,50	1 318,26	116,68	0,96
Transportation	A4	33,20	1,30	0,00	33,30	0,00	0,00
Internal production	A5	171,02	91,55	0,32	168,08	2,21	0,01
Sub-contracting	A5	2,31	1,30	0,00	2,57	0,01	0,03
Transport to the end user	A4	9,91	0,59	0,00	9,94	0,00	0,00
Waste treatment	C2-C4	2,86	0,56	-41,00	85,11	-84,76	0,00
Recycling potential D		-581,30	-106,34	0,00	-694,45	0,00	0,00
Total		898,73	449,03	76,82	922,82	34,14	1,00

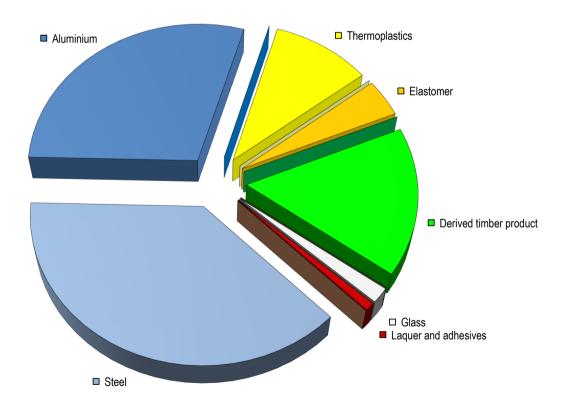
	Recycl	ed fuels	Use Waste				
Use of resources /		renewable	fossil	sweetwater	dangerous	no	radioactive
waste				resources	waste site	dangerous	waste
		(RSF)	(NRSF)	FW	(HWD)	(NHWD)	(RWD)
Lifecycle		(MJ)	(MJ)	(m³)	(kg)	(kg)	(kg)
Raw material make	A1-A3	0,00	0,00	0,61	0,00	13,43	0,07
Transportation	A4	0,00	0,00	0,00	0,00	0,01	0,00
Internal production	A5	0,00	0,00	0,13	0,00	0,23	0,00
Sub-contracting	A5	0,00	0,00	0,00	0,00	0,01	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	0,01	0,00	0,19	0,00
Recycling potential	D	41,15	0,00	-0,36	0,01	-9,59	-0,05
Total		41,15	0,00	0,39	0,02	4,27	0,02

Impact contribution



Material o						
Materials	Weight	Share	material	energetic	disposal	[]
Steel	6,626	37,8%	6,493	0,000	0,133	kg
Aluminium	5,103	29,1%	5,001	0,000	0,102	kg
Other metals	0,001	0,0%	0,001	0,000	0,000	kg
Thermoplastics	1,751	10,0%	0,117	1,459	0,175	kg
Duromer	0,019	0,1%	0,000	0,018	0,001	kg
Elastomer	0,720	4,1%	0,000	0,679	0,041	kg
Laminated plastics						
Wood-Plastic Composites						
Solid wood						
Derived timber product	2,842	16,2%	0,000	2,819	0,023	kg
Paper, -board	0,010	0,1%	0,006	0,003	0,000	kg
Leather						
Other renewable materials						
Glass	0,289	1,6%	0,180	0,000	0,109	kg
Other mineral materials						
Laquer and adhesives	0,156	0,9%	0,000	0,139	0,017	kg
Chemicals						
Auxiliaries	0,012	0,1%	0,000	0,000	0,000	kg
Total	17,529	100,0%	11,799	5,118	0,600	kg

Material composition



The proportion of secondary raw material in this product is 33,7%. It includes 16,3% renewable materials.

Use of laquer and adhesives

Application	Chemical characterisation	Weight ¹	VOC ²	Classific.3
Wood glues	-	-	-	-
Hotmelt adhesives	-	-	-	-
Fabric glues	Waterbased dispersion adhesive	0,1 kg	0,0%	no
Fabric glues	Waterbased dispersion adhesive	0,01 kg	0,0%	yes
Assembly adhesives	-	-	-	-
Stains	-	-	-	-
Powder coatings	Polyester powder lacquer	0,048 kg	0,0%	no
Powder coatings	Polyester powder lacquer	0,053 kg	0,0%	yes

The product is free of halogenated plastics (PVC).

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

Material certificates

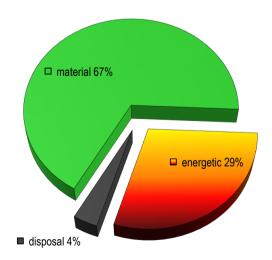
The following certificates are valid only for the mentioned raw-materials but not for the final product:

Shaped plywood: PEFC Standard - certificate 08.537.958, licence 08.537.958/1 Upholstery fabric: Oeko-Tex Standard100 - certificate 073313.O, product class II Upholstery materials: Oeko-Tex Standard100 - certificate AMM 17680, product class I





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 117 MJ. This is equivalent to 3,3 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

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