Environmental product declaration

according to ISO 14025 and EN15804

Table for public areas, acc. to EN 15372 and EN 1730

yuno Rectangular table

concept
wiesner hager

EPD Declaration number
TA 22012 1634 3940-828 02303470480

TÜV AUSTRIA
ZERTIFIZIERTE UMWELTDEKLARATION
ISO 14025 EPD TYP III
TÜV AUSTRIA CERT GMBH

Design: Andreas Krob

Environmental Product Declaration

EPD

Wiesner-Hager Möbel GmbH Linzer Straße 22 A-4950 Altheim Tel. 0043 7723 460-0 http://www.wiesner-hager.com	**Manufacturer** **Declaration holder**
TA 22012 1634 3940-828 02303470480	**EPD number**
3940-828 yuno yuno Rectangular table	**Declared product**
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 ISO 14040 of the business year 2016/17. The used generic data comes from acknowledged life cycle management databases and current EPD's of the declaration holders upstream products. http://www.wiesner-hager.com/en/sustainability/life-cycle-assessment/	**Data origin**
The procedure to compile this declaration was audited on 11 th September 2017 by TÜV Austria.	**Auditing**
Dipl.-Ing. Dr. Jürgen Hain, TÜV Austria Cert , Wien	**Auditor**
By means of the certificate TA 22012 1634 from 27 th September 2017, TÜV Austria authorizes the declaration holder to generate EPD type III. Download certificate	**Certification**
The certificate is valid until 30 th September 2020. The compliance of the requirements will be ensured by annual internal and external evaluations.	**Validity**
Gerhard Steigthaler, Master of Sciene, environmental engineer	**Issuer**
27. February 2018	**Date of issue**

Content

This declaration includes
- Pictures, descriptions and fulfilled standards
- Information about life cycle assessment
- Specific characteristics of the product configuration
- Indicators of the life cycle and impact assessment
- Details on the material composition of the product
- Information about material certificates of the used raw materials
- Recycling potentials

Investigation frame

The assessment of the declared product covers the whole lifecycle process from raw materials, manufacturing and disposal, including all transportation. The anticipated lifespan of the product is 15 years, assuming the product is used in line with the manufacturer's guidance and for the application it was designed and intended. As a result of the high product quality, no repairs are expected during the lifetime and no environmental impact is anticipated. All recycling is carried out in line with European standards.
Component parts are separated and recycled accordingly and any remaining waste material is incinerated under strict controls for the generation of energy. All transport distances including those of our suppliers and subcontractors are considered; all distances are calculated using route planning software. The distance between the declaration holder and the end user is 1000 km, the average distance between the end user and the waste management company is calculated at 50 km.

System boundaries

The standard EN 15804 describes the basic rules for the preparation of environmental product declarations for building materials. Furniture are still irrelevant for sustainability certifications of buildings, however we try to assign the high transparency of this standard to our furniture as far as possible.The following lifecycles are considered in this document:

Phase	Name of lifcycle	relevant
A1	raw material supply and processing	yes
A2	transportation to the manufacturer of precursor products	yes
A3	production of precursor products	yes
A4	transportation to building site	no
A4	transportation of the product to the end user *)	yes
A5	manufacturing of the product **)	yes
B1	use of the product ***)	no
B2	maintenance	no
B3	repair	no
B4	substitute	no
B5	renovation	no
B6	energy consumption for technical building equipment	no
B7	water consumption for technical building equipment	no
C1	demolition	no
C2	transportation to waste treatment	yes
C3	waste treatment	yes
C4	landfilling	yes
D	recycling potential	yes

*) In EN 15804 the modul A4 describes the transport of the building materials to building site, here it stands for the transport of furniture to the end user
**) In EN 15804 the modul A5 describes the installation of building materials into the building, here it stands for the manufacturing of the furniture at the factory
***) The use of our furniture has no environmental impact.

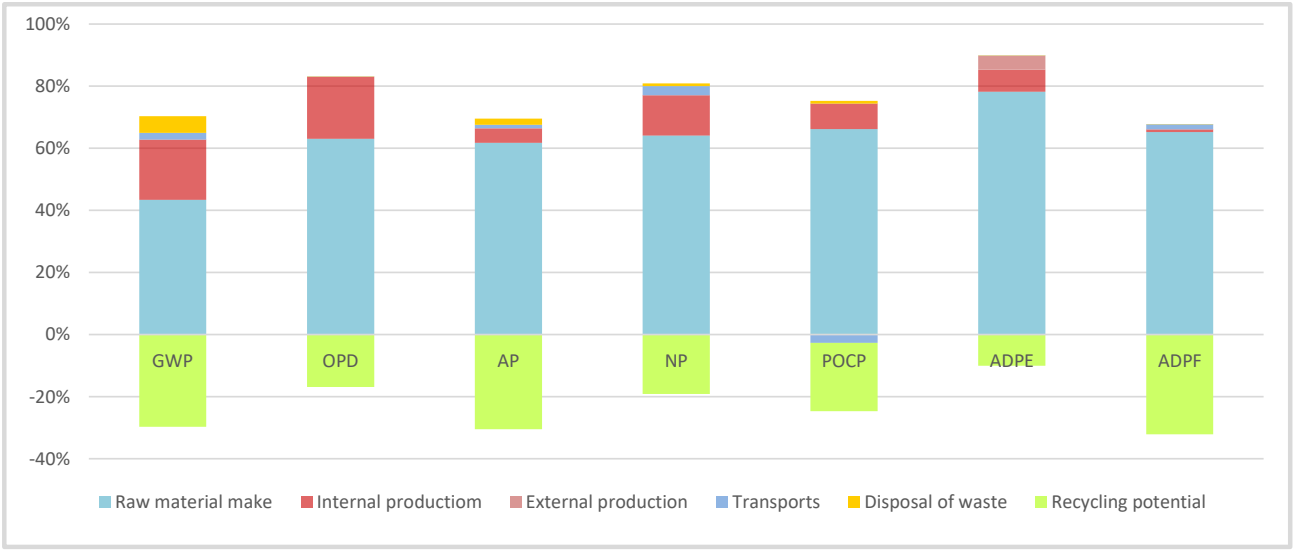
The general information of the LCA refers to whole lifecycle, beginning with the raw material make, the manufacturing of the product until the disposal of *one* unit of the product with an anticipated lifespan of 15 years.But the division of impact factors with the masses of the product allowes also a specific statement in mass.	**Functional unit**
Table for public areas, acc. to EN 15372 and EN 1730	**Application**
3940-828 yuno yuno Rectangular table	**Identification of product**
yuno impresses with its minimalist design combined with a sophisticated technological concept: it has all the positive features of a folding table whilst avoiding its weaknesses. The extra folding operation is avoided which means significant time saving for setup and dismantling. Furthermore, the table's construction facilitates compact stacking and thus space-saving storage. Unlike traditional folding tables, what is particularly clever about yuno is that when setting up for banquets or in rows, the tables can be interlocked longitudinally without extra linking devices thanks to its special interconnecting frame. Moreover, yuno's high quality, aesthetically appealing design makes it suitable for other areas such as seminar rooms, creative spaces and canteens.	**Description of product**
size of top 80 x 140 cm; table top HPL; colour of table top H085-FH white; colour of met.aluminium joints 37M anthracite; colour of metal 37M anthracite; leg finish plastic glides with castors; delivery assembled	**Configuration of product**

LCA Indicators		Global warming GWP	Ozone depletion ODP	Acidifi-cation AP	Nutrifi-cation NP	Ozone creation POCP	Abiotic resources ADPE
		CO2 eq.	CCl3F eq.	SO2 eq.	PO4-3 eq.	C2H4 eq.	Sb eq.
Lifecycle		(kg)	(mg)	(g)	(g)	(g)	(g)
Raw material make	A1-A3	39,13	0,06	284,02	30,41	30,57	0,08
Transportation	A4	0,42	0,00	1,11	0,31	-0,28	0,00
Internal production	A5	17,46	0,02	21,72	6,19	3,82	0,01
External production	A5	0,00	0,00	0,0	0,00	0,00	0,00
Transport to the end user	A4	1,40	0,00	3,64	1,00	-0,91	0,00
Waste treatment	C2-C4	4,95	0,00	9,38	0,48	0,35	0,00
Recycling potential	D	-26,74	-0,01	-140,20	-9,08	-10,17	-0,01
Total		**36,62**	**0,06**	**179,67**	**29,31**	**23,38**	**0,08**

Use of resources		Abiotic fossil fuels	**Primary energy renewable**		**Primary energy fossil**		Use recycled fibre
			energy carrier	material use	energy carrier	material use	
		ADPF	PERE	PERM	PENRE	PENRM	SM
Lifecycle		(MJ)	(MJ)	(MJ)	(MJ)	(MJ)	(kg)
Raw material make	A1-A3	1.002,85	236,13	217,05	1.019,49	100,79	8,81
Transportation	A4	5,76	0,44	0,00	5,79	0,00	0,00
Internal production	A5	13,53	126,23	1,59	14,08	0,66	0,00
External production	A5	0,00	0,00	0,00	0,00	0,00	0,00
Transport to the end user	A4	19,08	1,47	0,00	19,17	0,00	0,00
Waste treatment	C2-C4	2,17	0,12	0,00	2,22	0,00	0,00
Recycling potential	D	-494,80	-109,56	0,00	-600,53	0,00	0,00
Total		**548,59**	**254,83**	**218,63**	**460,22**	**101,46**	**8,81**

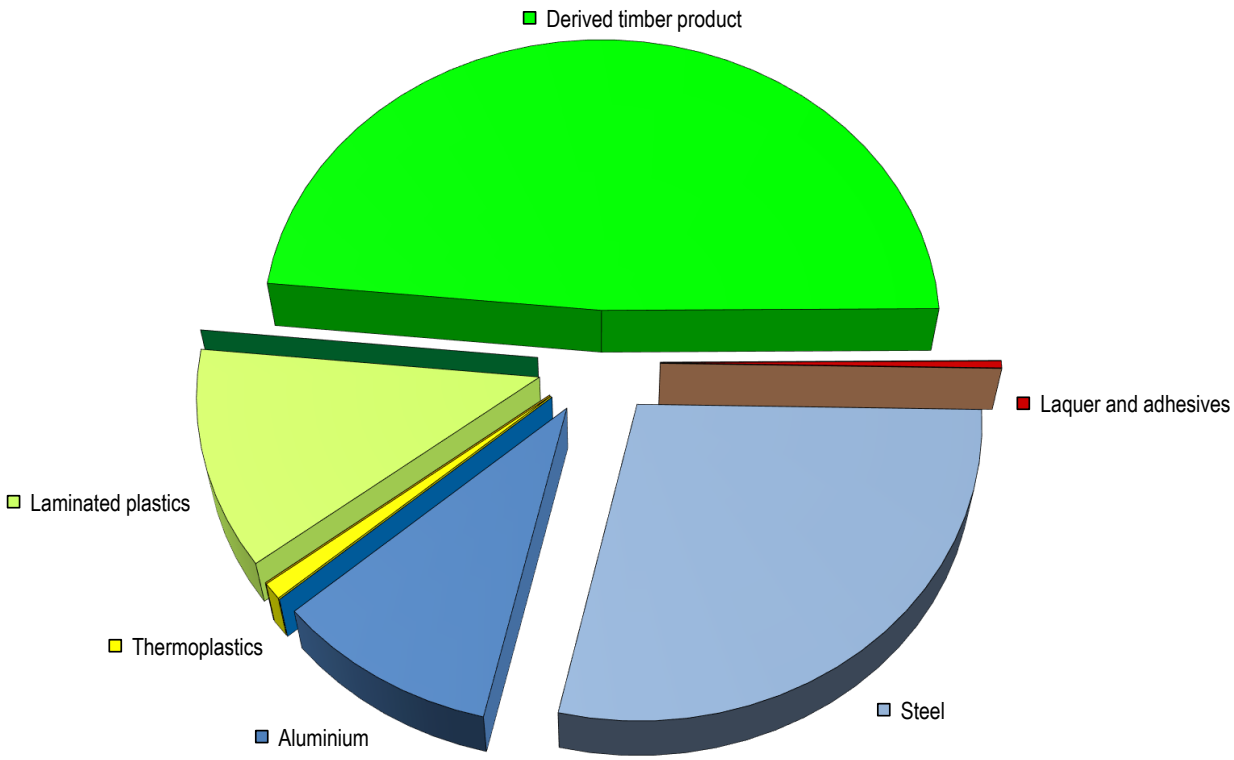
Use of resources waste		**Recycled fuels**		Use sweetwater resources	**Waste**		
		renewable	fossil		dangerous waste site	no dangerous	radioactive waste
		(RSF)	(NRSF)	FW	(HWD)	(NHWD)	(RWD)
Lifecycle		(MJ)	(MJ)	(m³)	(kg)	(kg)	(kg)
Raw material make	A1-A3	55,10	0,10	4,38	0,09	7,34	0,05
Transportation	A4	0,00	0,00	0,00	0,00	0,00	0,00
Internal production	A5	0,00	0,00	0,18	0,00	0,45	0,00
External production	A5	0,00	0,00	0,00	0,00	0,00	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	0,01	0,00	0,00	0,08	0,00
Recycling potential	D	0,00	-0,01	-0,27	-0,02	-4,98	-0,05
Total		**55,10**	**0,10**	**4,29**	**0,08**	**2,89**	**0,00**

Impact contribution



Material composition			Recycling content			
Materials	**Weight**	**Share**	**material**	**energetic**	**disposal**	**[ ]**
Steel	7,250	28,3%	7,105	0,000	0,145	kg
Aluminium	2,583	10,1%	2,531	0,000	0,052	kg
Other metals						
Thermoplastics	0,233	0,9%	0,016	0,194	0,023	kg
Duromer	0,002	0,0%	0,000	0,002	0,000	kg
Elastomer						
Laminated plastics	3,063	12,0%	0,000	2,916	0,147	kg
Wood-Plastic Composites						
Solid wood						
Derived timber product	12,399	48,4%	0,000	12,213	0,186	kg
Paper, -board						
Leather						
Other renewable materials						
Glass	0,000	0,0%	0,000	0,000	0,000	kg
Other mineral materials						
Laquer and adhesives	0,096	0,4%	0,000	0,086	0,010	kg
Chemicals						
Auxiliaries						
Total	**25,627**	**100,0%**	**9,652**	**15,411**	**0,563**	**kg**

Material composition



The proportion of secondary raw material in this product is 32,5%. It includes 48,4% enewable materials.

Use of laquer and adhesives

Application	Chemical characterisation	Weight[1]	VOC[2]	Classific.[3]
Wood glues	PVAC glue	0,189 kg	0,4%	0,0038
Hotmelt adhesives	-	-	-	-
Fabric glues	-	-	-	-
Assembly adhesives	Instant adhesive	0,002 kg	0,0%	0,0003
Stains	-	-	-	-
Water-based varnish	-	-	-	-
Powder coatings	Polyester powder lacquer	0,177 kg	0,0%	0
Solvent-based varnis	-	-	-	-

The product is free of halogenated plastics (PVC).

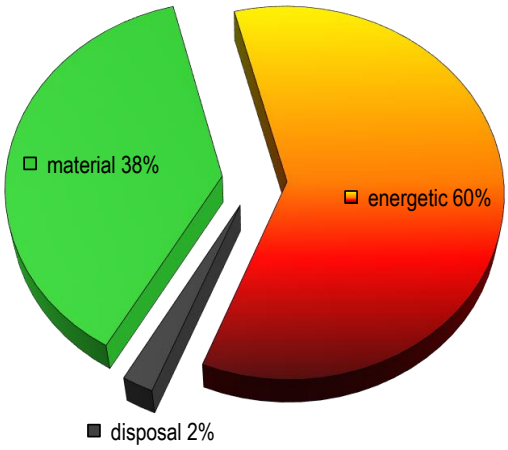
[1] Trockenmasse
[2] vor Aushärtung
[3] gemäß EU RL

Material certificates

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

Chipboards MDF: FSC Standard - certificate HFA-COC-100017, licence FSC-C017963
HPL-, CPL Laminate: FSC Standard - certificate QA-CoC-00019/3, licence FSC-C101962

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 282 MJ. This is equivalent to 7,9 litre of light fuel oil.

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

Publisher and picture credits

Wiesner-Hager Möbel GmbH
Linzer Straße 22
A- 4950 Altheim
Tel. +43 7723 460 0
eMail: altheim@wiesner-hager.com
www.wiesner-hager.com

Certification

TÜV Austria Cert GmbH
Krugerstraße 16
1015 Wien
Search product certificates
Search system certificates

Specialist counselling

Denkstatt GmbH
Environmental consulting
Hietzinger Hauptstraße 28
1130 Wien
www.denkstatt.at