Techo Hyll Cabinet

Sustainability Sheet

49,6 kg
Weight

89,48%
Recycled materials*

99,64%
Recyclability**

* Total percentage recycled content in product based on suppliers' data and market availability. The source of recycled content is both post-industrial and post-consumer.

** Maximum percentage of the product that is recyclable, based on the availability of recycling facilities in the specified region.

Type of product
This product is designed following our circular design strategy derived from the Dutch NPR8313-2 guideline for Circular offices and learning environments. Our circular design strategy focuses on maximizing value of product lifecycles and minimizing raw material extraction.

Lifetime extension, reuse and recycling
We are committed to keep the environmental footprint of our products as low as possible. With our Circular Hub we make sure that products keep in the cycle for as long as possible. Together we will take care of a sustainable solution.

- Lifetime extension by repair, maintenance or refurbishment
- Take back for reuse
- Reuse parts and/or materials
- Recycling

Circular Design

- Modular product design with standardised parts facilitates reuse and adaptability
- Modular interchangeable components
- Lightweight construction, high material efficiency

Certificates

- This product has an Environmental Product Declaration (EPD) according to ISO14025 and EN15804

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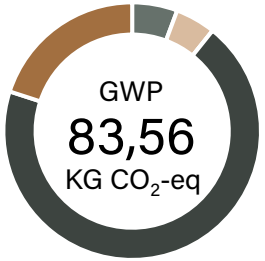

	Raw materials, incl. extraction and processing	-9,78	-12%
	Distribution and assembly	8,69	10%
	User stage and maintenance	0,00	0%
	End-of-life stage, waste-processing and disposal	119,05	142%
	Reuse, recovery, recycling potential	-34,41	-41%
	Total	83,56	100%

Materials	Weight (gr)	% of total	Resource
Wood (chipboard) (50% PCR, 50% PIR)	42.906	86,55	recycled content
Aluminium	2.637	5,31	virgin non-renewable and recycled content
Steel unalloyed	2.194	4,43	virgin non-renewable and recycled content
Acrylonitrile butadiene styrene	569	1,15	virgin non-renewable
Glue	124	0,25	virgin non-renewable
Polyester powder coating	48	0,10	virgin non-renewable
Wood (beech lumber)	32	0,06	virgin non-renewable
Kraft paper	8	0,02	virgin non-renewable
Silicone	3	0,01	virgin non-renewable
Cardboard packaging	800	1,61	virgin non-renewable
Polyethylene low density packaging (70% PIR)	250	0,50	virgin non-renewable and recycled content
Total	**49.571**	**100%**	

Manufactured in
Czech Republic

Production location
Czech Republic

Renewable energy assembly location
0%

Materials

Material composition
Ahrend selects its materials following strict criteria when it comes to responsible sourcing, material safety, longevity and the entire lifecycle of a material. Before we choose a material, we first look at material safety of a material, following the cradle-to-cradle philosophy that materials first have to be safe, in order to be circular. We look at minimum impact of material input, by choosing re-used materials over new, virgin materials. We select materials that have a lifespan of more than one economic lifecycle so that the material can be re-used multiple economic lifecycles.

Material safety
No substances listed on the REACH Candidate list of Substances of Very High Concern (SVHC) have been intentionally added to the homogeneous material or are a known contaminant in the homogeneous material.

Material selection
- All our lacquers are powder coated. Powder coating is a (more) sustainable method compared to other methods, that does release any harmful substances and 100% of the pure raw material is used.
- All wood in this product is sourced from suppliers that are certified according to responsible deforestation free programs.

Want to learn more?
Contact your account manager or visit www.ahrend.com

Procurement

When selecting our suppliers, we require our business partners to comply with the same ethical business behaviour with respect for labour-, human- and environmental rights. Ahrend maintains long-term relationships with many of its suppliers, some spanning several decades, which is a key advantage for the further development of products, technologies and materials.

Environmental Product Declaration

Ahrend conducted a life cycle assessment for this product to measure their environmental impacts. Alongside their carbon footprint, we also study other impacts such as resource depletion and water scarcity. This EPD can be found on the following pages.

Production and packaging

The packaging consists of an EPAL-pallet, cardboard and recycled plastic.

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Third party verified Environmental Product Declaration

According ISO 14025 & EN 15804+A2

Company information

Manufacturer:	Royal Ahrend
Production location:	Czech Republic
Address:	U Továren 770/1b 10200 Prauge 10
E-mail:	info@ahrend.com
Website:	www.ahrend.com

EPD information

Product name:	Hyll Cabinet: Wingdoor cabinet 1000x470x1063
Date of issue:	25-11-2025
End of validity:	25-11-2030
PCR:	ISO 14025 & EN 15804+A2
LCA method:	EN 15804+A2
LCA software:	Ecochain Mobius
Version database:	Ecoinvent v3.8 Cut-Off

Declaration from the verifier, SGS Search, 25-11-2025:
This LCA was reviewed by SGS Search in accordance with EN 15804+A2 and approved on 25 November 2025. The applied methodology, inventory data, and reporting comply with the requirements of EN 15804+A2 and the underlying standards ISO 14040 and ISO 14044.

Declared products

Hyll Cabinet: Wingdoor cabinet 1000x470x1063

Scope of declaration

Funtional unit:	One product (piece)
System boundaries:	Cradle-to-grave
Life cycle stages included:	

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
x	x	x	x	x	x	x	x	x	x	MND	MND	x	x	x	x	x

(x = included, MND = module not declared)

Product information

Description of the product:
The Hyll Wingdoor Cabinet has dimensions of 1000x470x1063 mm. The product is manufactured in compliance with relevant sustainability and quality standards. All wood applied in the Cabinet is PEFC-verified. The product meets the requirements of EN 14073 and EN 14074, which specify ergonomics, safety and durability criteria for office storage furniture. In addition, the Ahrend A.S. supply chain is FISP-certified, covering environmental, economic and social performance indicators within the furniture sector.

The Cabinet is manufactured from high-density melamine-faced chipboard with ABS edging. The 8 mm double-sided back panels enable the Cabinet to be used both as storage furniture and as a room divider. Metal-reinforced wooden shelves are applied to ensure load-bearing stability and to prevent deformation during use. The construction prioritizes a wooden design to facilitate disassembly, reuse and end-of-life recovery.

Recycled wood is used in the chipboard composition: 50% post-consumer recycled content and 50% post-industrial recycled content. The total net weight of the product and packaging is 49,57 kg, of which the product materials account for 48,52 kg and the packaging materials (cardboard and LDPE) account for 1,05 kg.

Description of manufacturing process:
The main components are delivered to the Wood Hub in Prague. Some of these components undergo several processing steps at the Wood Hub. Together, they will be assembled to end product.

Processes that are taking place in the Ahrend Wood Hub in Prague include:
- Cutting
- Edging
- Drilling
- Dowelling
- Robotic unloading
- Final product assembly

Description of packaging materials:
The product is packaged onto a EURO pallet with cardboard and a recycled plastic bag.

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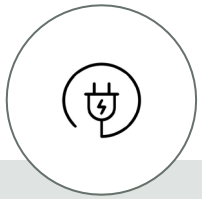
Process boundary

Material extraction and production

A1-A3

Transport and disassembly

A4-A5

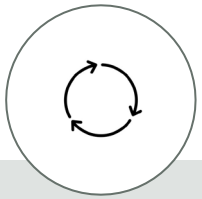


Use Phase

B1-B5

End-of-life

C1-C4



Recovery/ Recycling

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Techo Hyll Cabinets

Results of the environmental performance indicators (LCA results) of one functional unit (one Techo Hyll Cabinets)

Impact category	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D	Total
Acidification (AP)	mol H+ eq	6,04E-01	3,22E-02	4,55E-03	0,00E+00	0,00E+00	4,94E-03	8,54E-03	2,33E-04	-2,38E-01	4,16E-01
Climate change – Biogenic (GWP-b)	kg CO2 eq	-1,07E+02	0,00E+00	1,50E+00	0,00E+00	0,00E+00	0,00E+00	9,64E+01	1,02E+01	0,00E+00	1,24E+00
Climate change – Fossil (GWP-f)	kg CO2 eq	9,69E+01	5,68E+00	1,51E+00	0,00E+00	0,00E+00	8,72E-01	1,15E+01	3,71E-02	-3,43E+01	8,23E+01
Climate change – Land use and LU change (GWP-luluc)	kg CO2 eq	1,88E-01	2,31E-03	6,96E-04	0,00E+00	0,00E+00	3,55E-04	4,89E-04	5,49E-06	-1,25E-01	6,74E-02
Climate change (GWP-total)	kg CO2 eq	-9,78E+00	5,68E+00	3,01E+00	0,00E+00	0,00E+00	8,72E-01	1,08E+02	1,02E+01	-3,44E+01	8,36E+01
Ecotoxicity, freshwater (ETF)	CTUe	2,34E+03	6,93E+01	1,62E+01	0,00E+00	0,00E+00	1,06E+01	3,32E+01	4,94E+01	-1,11E+03	1,41E+03
Eutrophication, freshwater (EP-fw)	kg P eq	4,62E-03	4,19E-05	3,58E-05	0,00E+00	0,00E+00	6,43E-06	1,87E-05	5,93E-07	-1,16E-03	3,56E-03
Eutrophication, marine (EP-m)	kg N eq	1,17E-01	1,16E-02	1,16E-03	0,00E+00	0,00E+00	1,78E-03	3,56E-03	1,52E-04	-4,08E-02	9,45E-02
Eutrophication, terrestrial (EP-t)	mol N eq	1,33E+00	1,27E-01	1,20E-02	0,00E+00	0,00E+00	1,96E-02	3,84E-02	1,06E-03	-5,06E-01	1,02E+00
Human toxicity, cancer (HTC)	CTUh	4,30E-07	2,76E-09	4,13E-09	0,00E+00	0,00E+00	4,24E-10	1,43E-08	1,04E-11	-4,54E-08	4,07E-07
Human toxicity, non-cancer (HTNC)	CTUh	2,16E-06	7,97E-08	2,45E-08	0,00E+00	0,00E+00	1,22E-08	1,24E-07	1,19E-09	-3,61E-07	2,04E-06
Ionising radiation (IR)	kBq U-235 eq	3,68E+00	3,79E-01	3,95E-02	0,00E+00	0,00E+00	5,82E-02	1,94E-02	1,40E-03	-3,92E-01	3,79E+00
Land use (SQP)	Pt	1,43E+03	7,46E+01	2,40E+00	0,00E+00	0,00E+00	1,14E+01	5,67E+00	1,14E+00	-1,32E+03	2,01E+02
Ozone depletion (ODP)	kg CFC11 eq	7,56E-06	1,33E-06	8,41E-08	0,00E+00	0,00E+00	2,04E-07	9,70E-08	4,87E-09	-1,61E-06	7,68E-06
Particulate matter (PM)	disease inc.	7,19E-06	6,27E-07	5,41E-08	0,00E+00	0,00E+00	9,63E-08	9,15E-08	5,86E-09	-3,10E-06	4,97E-06
Photochemical ozone formation (POCP)	kg NMVOC eq	4,30E-01	3,64E-02	4,02E-03	0,00E+00	0,00E+00	5,59E-03	9,60E-03	4,87E-04	-1,38E-01	3,48E-01
Resource use, fossils (ADP-f)	MJ	1,39E+03	8,74E+01	1,23E+01	0,00E+00	0,00E+00	1,34E+01	7,85E+00	3,39E-01	-3,29E+02	1,18E+03

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Techo Hyll Cabinets

Results of the environmental performance indicators (LCA results) of one functional unit (one Techo Hyll Cabinets)

Impact category	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D	Total
Resource use, minerals, and metals (ADP-mm)	kg Sb eq	6,37E-04	1,90E-05	7,37E-05	0,00E+00	0,00E+00	2,92E-06	1,34E-05	4,82E-08	6,67E-03	7,41E-03
Water use (WDP)	m3 depriv.	4,54E+01	2,88E-01	4,53E-01	0,00E+00	0,00E+00	4,41E-02	-3,00E-01	2,92E-03	-3,09E+00	4,28E+01
Components for re-use (CRU)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy, primary, non-renewable (PENRT)	MJ	1,49E+03	9,28E+01	1,32E+01	0,00E+00	0,00E+00	1,42E+01	8,45E+00	3,60E-01	-3,50E+02	1,27E+03
Energy, primary, non-renewable, excluding materials (PENRE)	MJ	1,39E+03	9,28E+01	1,22E+01	0,00E+00	0,00E+00	1,42E+01	8,45E+00	3,60E-01	-3,50E+02	1,17E+03
Energy, primary, non-renewable, materials (PENRM)	MJ	9,80E+01	0,00E+00	9,80E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,90E+01
Energy, primary, renewable (PERT)	MJ	3,85E+02	1,25E+00	8,49E-01	0,00E+00	0,00E+00	1,93E-01	4,77E-01	4,66E-03	-3,03E+02	8,42E+01
Energy, primary, renewable, excluding materials (PERE)	MJ	-4,50E+02	1,25E+00	-7,50E+00	0,00E+00	0,00E+00	1,93E-01	4,77E-01	4,66E-03	-3,03E+02	-7,59E+02
Energy, primary, renewable, materials (PERM)	MJ	8,34E+02	0,00E+00	8,34E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,43E+02
Energy, primary, total (PET)	MJ	1,87E+03	9,41E+01	1,40E+01	0,00E+00	0,00E+00	1,44E+01	8,93E+00	3,65E-01	-6,53E+02	1,35E+03
Exported energy, electric (EEE)	MJ	2,68E+00	0,00E+00	5,08E+00	0,00E+00	0,00E+00	0,00E+00	9,88E+01	0,00E+00	0,00E+00	1,07E+02
Exported energy, thermal (EET)	MJ	4,61E+00	0,00E+00	8,75E+00	0,00E+00	0,00E+00	0,00E+00	1,70E+02	0,00E+00	0,00E+00	1,84E+02
Materials for energy recovery (MER)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling (MFR)	kg	2,08E+01	0,00E+00	9,97E-02	0,00E+00	0,00E+00	0,00E+00	4,65E+00	0,00E+00	0,00E+00	2,56E+01
Secondary fuel, non-renewable (NRSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Secondary fuel, renewable (RSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Secondary material (SM)	kg	3,37E+01	0,00E+00	3,37E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,40E+01

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Techo Hyll Cabinets

Results of the environmental performance indicators (LCA results) of one functional unit (one Techo Hyll Cabinets)

Impact category	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D	Total
Waste, hazardous (HWD)	kg	9,37E-03	2,23E-04	2,30E-04	0,00E+00	0,00E+00	3,42E-05	3,02E-05	8,11E-07	1,31E-02	2,30E-02
Waste, non-hazardous (NHWD)	kg	1,87E+01	5,83E+00	2,69E-01	0,00E+00	0,00E+00	8,95E-01	6,37E-01	-1,69E-01	-6,08E+00	2,01E+01
Waste, radioactive (RWD)	kg	3,78E-03	5,90E-04	4,28E-05	0,00E+00	0,00E+00	9,05E-05	2,28E-05	2,18E-06	-5,09E-04	4,02E-03
Water, freshwater use (FW)	m3	1,53E+00	1,04E-02	1,46E-02	0,00E+00	0,00E+00	1,60E-03	-3,99E-03	8,20E-05	-1,80E-01	1,37E+00

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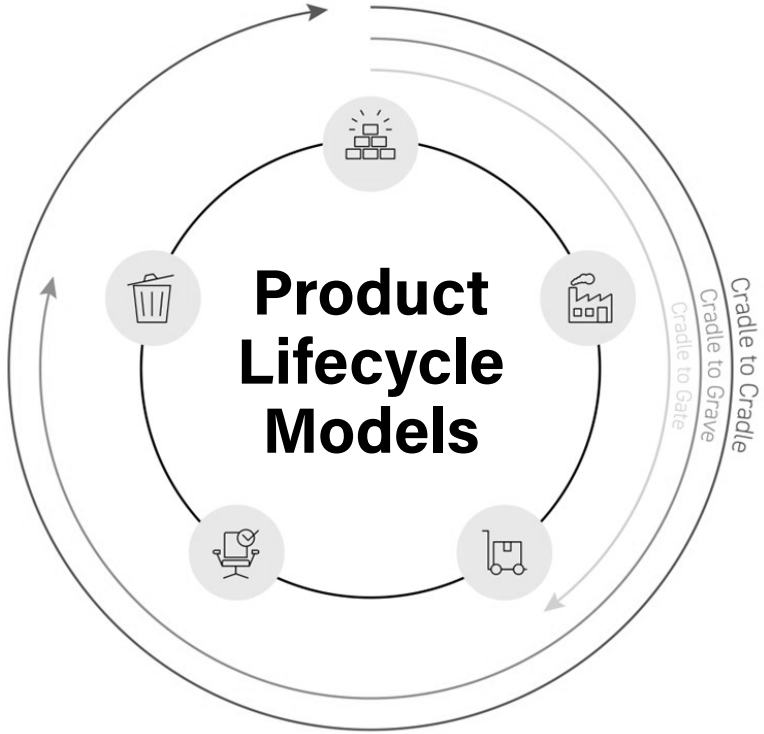
Additional technical information

Modules A1-A3 include the extraction and production of materials. Module A1 covers the extraction of raw materials for the Techo Hyll Cabinets, as well as the associated transport and packaging. Module A2 includes the transport of materials from suppliers to the production facility in Prague. Module A3 includes the energy consumption of the production site and incorporates the production waste of wood. For end-of-life treatment percentages and transport distances, standard values from the NMD Assessment Method are applied.
Modules A4 and A5 include transport to the customer and installation-related activities. Module A4 includes transport from production site to customers in the Netherlands, based on the default distance of 860 km defined by the NMD Assessment Method. Module A5 includes the disposal of packaging waste and a 1% installation loss. Default NMD values are again applied for end-of-life treatment percentages and transport distances.
Module B covers the use-phase. For the Cabinets, no use-phase processes occur, resulting in zero impact.
Modules C1-C4 include the end-of-life stage. After their service life, the products are manually disassembled, resulting in no impact in Module C1. Subsequently, materials are transported to waste processors (C2) and treated accordingly (C3-C4). Transport distances and waste processing assumptions follow the NMD Assessment Method.
Module D includes the benefits and loads from recovery and recycling. The calculations are performed in accordance with the procedures defined in the NMD Assessment Method.



Disclaimer
This LCA is calculated according to the Cradle-to-Grave model. From the moment a product leaves the factory (cradle) to the end of its life cycle, in which the use phase and waste phase; namely when the waste is or is being removed, are taken into account. (grave). Please be aware that EPDs of competitors within the same product category calculated with a Cradle-to-Gate model or with different methods may not be comparable.

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References

ISO 14040
DIN EN ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework; EN ISO 14040:2006

ISO 14044
DIN EN ISO 14044:2006-10, Environmental management - Life cycle assessment - Requirements and guidelines; EN ISO 14040:2006

ISO 14025
DIN EN ISO 14025:2011-10: Environmental labels and declarations — Type III environmental declarations — Principles and procedures

EN 15804+A2
NEN-EN 15804:2012+A2:2019: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

NMD-assessment method 1.2
'Environmental Performance Assessment Method for Construction Works', Stichting National Environmental Database, versie 1.2, mei 2024.

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