Upside Tables



Environmental Product Declaration

EPD11407
Date of Issue: November 9, 2026
Date of Expiration: November 9, 2031

Product Category Rule

BIFMA PCR for Tables, UNCPC 3812 v1
In accordance with ISO 14025:2006

Functional Unit

1 m^2 of floor space, maintained for a period of 10 years produced in North America.

The PCR this EPD was based on was written to determine the potential environmental impacts of a furniture workspace product from cradle-to-grave. It was not written to support comparative assertions. EPDs based on different PCRs, or different calculation models, may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results, due to and not limited to, the practitioner's assumptions, the source of the data used in the study, and the specifics of the product modeled.

Program Operator	NSF Certification, LLC 789 N. Dixboro, Ann Arbor, MI 48105 sustainability@nsf.org
Manufacturer Name and Address	Haworth, Inc. One Haworth Center Holland, MI 49423 sustainability@haworth.com
Declaration Number	EPD11407
Declared Product and Functional Unit	1 m^2 of floor space, maintained for a 10-year period produced in North America
Reference PCR and Version Number	BIFMA PCR for Tables: UNCPC 3812 v1
Product's intended Application and Use	Commercial Furniture
Product RSL	10 years
Markets of Applicability	North America
Date of Issue	November 9, 2026
Period of Validity	5 years from date of issue
EPD Type	Product Specific
Intended Audience	Business-to-Business, Business-to-Consumer
Range of Dataset Variability	N/A
EPD Scope	Cradle to Grave
Year of reported manufacturer primary data	2025
LCA Software and Version Number	Sphera LCA FE (GaBi) 10.9
LCI Database and Version Number	Sphera MLC (GaBi) 2023.2
LCIA Methodology and Version Number	IPCC AR6 + TRACI 2.2
The PCR review was conducted by:	Thomas Gloria, PhD (chair) Jack Geibig, P.E. Michael Overcash, PhD
Independent, third party verification of the declaration and data, according to ISO 14040 (2006), ISO 14044 (2006), 14025 (2006), and BIFMA PCR for Tables: UNCPC 3812 V1 (2021), which serves as the core PCR. ☒EPD verification by individual verifier	 Joseph Geibig joseph@ecoform.com
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	Haworth, Inc. (in-house LCA team)
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Joseph Geibig joseph@ecoform.com
Procedure for follow-up of data during EPD validity involves third-party verifier	☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

This study utilizes the BIFMA Tables PCR. This BIFMA PCR was used to meet market expectations such as Building Transparency EC3 comparisons, LEED and existing vendor procurement requirements, and product scoring programs. The EPD should not be used outside of this context.

Company Description

Haworth strives to be a sustainable corporation. We believe operating a sustainable corporation will allow us to help people do great things for generations to come. We are on a journey—one that promotes longevity and delivers value to the people, communities, and planet that we serve. At our core, we are a family—and we weather challenges together. Haworth is built upon a culture that empowers members and all stakeholders to make positive changes. We strengthen existing partnerships and build new ones, while empowering our members and leveraging our global reach, as we continue our drive toward making positive changes for the people and communities, we serve all over the world.

Product Description

Upside (TJRA) is a freestanding height-adjustable, single-user table solution that provides an extended range of adjustments to accommodate a greater range of people and meet the BIFMA G1 industry guideline for ergonomic workstations. It also offers a broad range of table widths for flexibility in space design. The Upside base is manufactured in a facility with quality and environmental management systems in place in Malaysia. The top is manufactured at Haworth's facility in Holland, MI – an ISO 14001 and ISO 9001 certified facility. This product can be easily disassembled at the end of its useful life. This product falls under UN CPC 3812 and is classified as a single-user, height-adjustable table under the BIFMA PCR for Tables. This product is designed to endure and is made of long-lasting high-quality materials. It has replaceable wearing parts for easy disassembly. When a product reaches the end of its useful life, customers and partners are encouraged to avoid landfilling and instead pursue second life options. Components are identified with ISO recycling symbols and material information to assist in the recycling effort, where practical. Haworth offers circular service solutions for product take back, refurbishment, or recycling after the product's useful life.

Results were calculated for a single configuration of the table (TJRA-2970-LJSNCWN). However, this EPD encompasses results for all variations within the Upside Table (TJRA) family that can be developed from the table below. The configuration selected is typical and aligns with the representative product selected for BIFMA Level certification. Results for other configurations fall within 10% of the representative product. Product numbers take the following format:

TJRA-[Depth][Width]-[Surface][Edge]SN[Base][Height Adjustment Actuator][Model]

Depth	Width	Surface	Edge	Base	Height Adjustment Actuator	Model
23”	64”	Laminate (L)	Laminate (J)	C-Leg (C)	Single Stage Standard Paddle (X)	Standard (G)
29”	70”	Wood (W)	Wood (K)	T-Leg (T)	Single Stage Programmable Paddle (Y)	Value (N)
	76”				Double Stage Standard Paddle (X)	
					Double Stage Programmable Paddle (Y)	

The table evaluated consists of a 29" × 70" laminate top and a height-adjustable steel base. The composition of the table is provided below, with a total product weight of 56.93 kg and an area of 1.31 m². To meet the functional unit, 0.76 units of the Upside table are required with a reference flow of 43.27 kg of product.

Material	[kg]	[%]	Recycled Content [%]*	Resource Type
Product				
Particleboard	19.11	44%	100%	Recycled, Non-Renewable
Steel	19.08	44%	34%	Recycled, Virgin Non-renewable
Aluminum	2.33	5%	70%	Recycled, Virgin Non-renewable
Plastic	1.04	2%	0%	Virgin Non-renewable

Laminate	0.94	2%	34%	Recycled, Virgin Non-renewable
Copper	0.52	1%	0%	Virgin Non-renewable
Other	0.25	<1%	0%	Virgin Non-renewable
Packaging				
Cardboard	2.838	81%	47%*	Recycled, Virgin Renewable
EPS	0.457	13%	0%	Virgin Non-renewable
PP	0.221	6%	0%*	Virgin Non-renewable

*Recycled content of cardboard packaging is an average value associated with background LCI datasets. Recycled content values from average or secondary sources are used where supplier data was not available.

Additional Environmental Information

The product under review is manufactured at zero waste-to-landfill facilities that are ISO 14001- and ISO 9001- certified. In addition, this product has the following certifications:

- GREENGUARD Gold Certified
- BIFMA LEVEL 3 Certified
- Declare label

At the end of its useful life, Haworth manages products correctly in accordance with all applicable regulations for effective end-of-life management, including recycling, disposal, or incineration. Improper management may result in the release of chemicals that may represent a risk to the environment and human health & safety.

Functional Unit

The functional unit is 1 m^2 of floor space, maintained for a 10-year period. The products under study have a 10-year service life under ANSI/BIFMA X5.5 and therefore do not require replacements to meet the functional unit. The area of each table was calculated in accordance with the method outlined by section 3 of the PCR.

LCA Stages



Materials Acquisition & Pre-Processing | Includes raw material extraction, pre-processing of materials, and transport to production.

Production | Includes component and final assembly manufacturing operations, both by Haworth and upstream suppliers, as well as intermediate transport and packaging requirements.

Distribution, Storage, and Use | Includes an average distribution to customers. No additional storage is required. There are no impacts associated with use of the product. The table utilizes electricity to adjust in height. Per the PCR, this is excluded from the scope of the LCA study, however energy requirements are reported. The energy requirement for adjusting the table from the lowest to highest position and returning to lowest is 0.00451 kWh.

End-of-Life | Includes transport to and disposal of product and packaging based on average US recycling rates.

LCA Information

General principles of allocation were based on ISO 14040/44. Where possible, allocation was avoided. At the part supplier production facilities, manufacturing inputs and outputs are allocated to co-products by mass because of the use of secondary datasets and no primary data available for part suppliers. At Haworth assembly facilities, manufacturing inputs and outputs are allocated to co-products based on economic value. This choice was deemed the most appropriate at Haworth facilities due to the availability of data on economic value. As a default, Sphera Managed LCA Content datasets use a physical mass basis for allocation.

Throughout the study recycled materials were accounted for via the cut-off method. Under this method, impacts and benefits associated with the previous life of a raw material from recycled stock are excluded from the system boundary and include the impacts associated with reprocessing and preparation of recycled materials. Additionally, impacts and benefits associated with secondary functions of materials at end of life are also excluded.

Production of capital goods, infrastructure, and personnel-related activities are excluded, as required by the BIFMA PCR for tables.

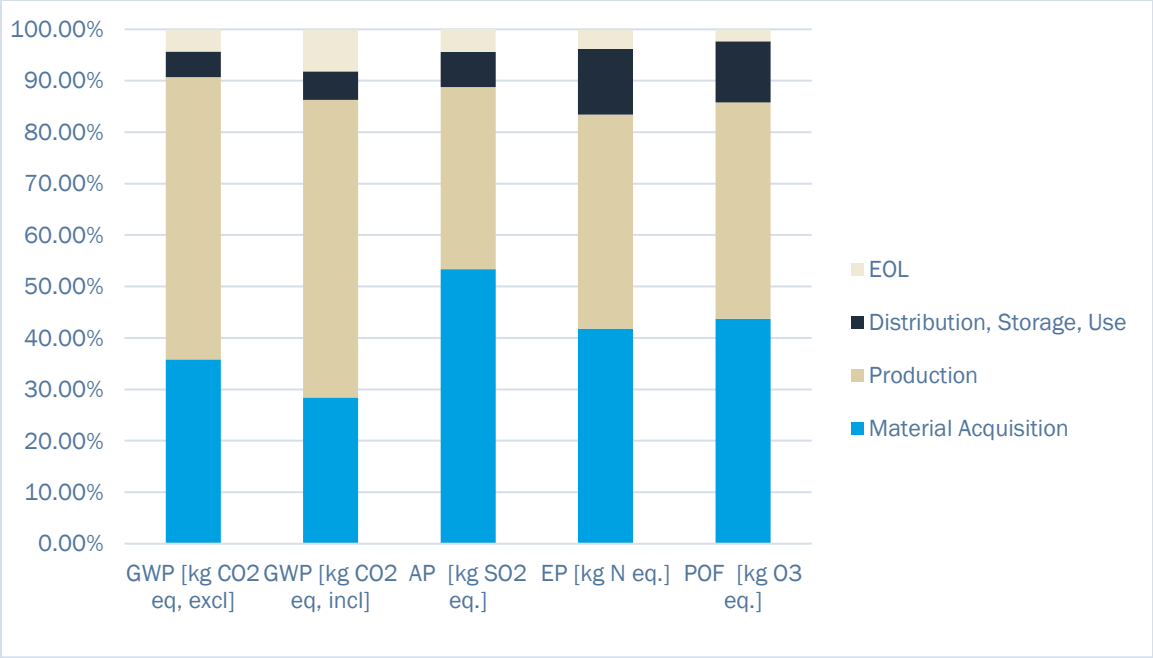
LCA Results

All results are given per functional unit, which is 1 m^2 of floor space, maintained for a 10-year period. Results are reported separately by life cycle stage per the BIFMA PCR for tables. The results shown in the table below are a weighted average based on production volume at the two manufacturing sites under review. It is discouraged to use results for Material Acquisition and Production without considering the results for End of Life.

Impact Category	Material Acquisition	Production	Distribution, Storage, Use	EOL	Total
IPCC AR6 LCIA Impacts					
Global Warming Potential, incl biogenic [kg CO2 eq]	8.54E+01	1.69E+02	1.54E+01	2.46E+01	**2.94E+02**
Global Warming Potential, excl biogenic [kg CO2 eq]	1.15E+02	1.71E+02	1.50E+01	1.38E+01	**3.15E+02**
TRACI 2.2 LCIA Impacts (North America)					
Acidification Potential [kg SO2 eq]	5.07E-01	3.27E-01	6.05E-02	4.27E-02	**9.38E-01**
Eutrophication Potential [kg N eq]	1.74E-01	1.67E-01	5.13E-02	1.56E-02	**4.09E-01**
Ozone Depletion Potential [kg CFC 11 eq]	1.11E-07	1.49E-07	3.57E-12	3.91E-12	**2.59E-07**
Photochemical Oxidation Formation [kg O3 eq]	6.14E+00	5.73E+00	1.60E+00	3.19E-01	**1.38E+01**
Resource Use Indicators					
Primary Energy Demand, renewable and non-renewable resources [MJ]	2.54E+03	2.67E+03	1.91E+02	2.73E+01	**5.42E+03**
Use of renewable primary energy [MJ]	8.79E+02	2.79E+02	4.01E+00	3.29E+00	**1.17E+03**
Use of non-renewable energy [MJ]	1.07E+03	2.33E+03	1.87E+02	2.40E+01	**3.61E+03**
Renewable primary resources used as an energy carrier [MJ]	8.79E+02	2.48E+02	4.01E+00	3.29E+00	**1.13E+03**
Renewable primary resources with energy content used as a material [MJ]	0.00E+00	3.03E+01	0.00E+00	0.00E+00	**3.03E+01**
Renewable primary resources, total [MJ]	8.95E+02	3.09E+02	4.01E+00	3.29E+00	**1.21E+03**
Non-renewable primary resources used as an energy carrier [MJ]	5.06E+02	2.31E+03	1.87E+02	2.40E+01	**3.03E+03**
Non-renewable primary resources with energy content used as a material [MJ]	5.63E+02	2.16E+01	0.00E+00	0.00E+00	**5.85E+02**
Non-renewable primary resources, total [MJ]	1.64E+03	2.36E+03	1.87E+02	2.40E+01	**4.21E+03**
Recovered Energy [MJ]	0.00E+00	1.17E-01	0.00E+00	1.74E+01	**1.76E+01**
Net fresh water usage [kg]	3.99E+03	8.53E+01	5.27E+00	2.79E+02	**4.36E+03**

*Water usage from electricity generation is included.

The chart below presents the relative contribution of each life cycle stage to the TRACI 2.2 and IPCC environmental impact categories by life cycle stage per the BIFMA PCR for tables.



References

1. EN 15804:2012+A2.2019/AC:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
2. ISO 14040: 2006/ Amd 1:2020: Environmental Management – Life cycle assessment – Requirements and Guidelines.
3. ISO 14044: 2006/ Amd 1:2017/ Amd 2:2020: Environmental Management – Life cycle assessment – Requirements and Guidelines – Amendment 1.
4. ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and Procedures.
5. ISO 21930:2017 Sustainability in buildings and civil engineering works – Core rules for environmental product declarations of construction products and services.
6. IPCC. (2021). Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press. In Press.
7. Life Cycle Assessment, LCA Report for Haworth. WAP Sustainability Consulting. March 2024.
8. NSF International. BIFMA PCR for Tables: UNCPC 3812, valid through July 31, 2026
9. TRACI: The Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts. Version 2.2 – User Guide - https://nepis.epa.gov/Adobe/PDF/P100HN53.pdf.
10. US EPA, 2022. *Facts and Figures about Materials, Waste and Recycling*.- https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materials