# **Breck Task Seating**



### **Environmental Product Declaration**

Date of Issue: February 1, 2025 Date of Expiration: January 31, 2030

### **Product Category Rule**

BIFMA PCR for Seating, UNCPC 3811 EN 15804+A2

### **Functional Unit**

1 Breck task seat with a plastic base, maintained for a period of 10 years produced in North America



This EPD 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 software tool used to conduct the study.



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	EPD 11025
Declared Product and Functional Unit	Breck task seat with a plastic base maintained for a 10-year period produced in North America
Reference PCR and Version Number	BIFMA PCR for Seating: UNCPC 3811, Version 3
Product's intended Application and Use	Commercial Furniture
Product RSL	10 years
Markets of Applicability	North America
Date of Issue	February 1, 2025
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	2022
LCA Software and Version Number	Sphera LCA FE (GaBi) 10.9
LCI Database and Version Number	Sphera MLC (GaBi) 2023.1
LCIA Methodology and Version Number	IPCC AR6 + TRACI 2.1
The sub-category PCR review was conducted by:	Thomas Gloria, PhD (chair) Jack Geibig, P.E. Michael Overcash, PhD
This declaration was independently verified in accordance with ISO 14040 (2006), ISO 14044 (2006), 14025 (2006), EN 15804+A2, and BIFMA PCR for Seating: UNCPC 3811 V3, which serves as the core PCR.  □ Internal  □ External	External review conducted by: Thomas Gloria, Industrial Ecology Consultants  This declaration and its Life Cycle Assessment was independently verified in accordance with ISO standards 14040 (2006) and 14025 (2006), and BIFMA PCR for Seating UNCPC 3811 (2020).
This life cycle assessment was conducted in accordance with ISO 14044, EN 15804+A2, and the reference PCR by:	WAP Sustainability Consulting
This life cycle assessment was independently verified in accordance with ISO 14044, EN 15804+A2, and the reference PCR by:	Thomas Gloria, Industrial Ecology Consultants
	The product Life Cycle Assessment was conducted in accordance with ISO 14044 and the reference PCR.
Limitations:	

Environmental declarations from different programs (ISO 14025) may not be comparable.

The PCR this EPD was based on was written to determine the potential environmental impacts of a furniture seating 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. Additional information on the life cycle assessment can be found by contacting Haworth directly.



### **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**

Breck is the perfect blend of simple efficiency and smart ergonomics. Its innovative GeoStretch back with targeted flex zones provides the right amount of support where you need it, while the weight-activated mechanism easily responds to the way you sit and recline. Simple assembly requires no tools and takes less than a minute. Additionally, Breck—through its design, manufacturing, and shipping—prioritizes sustainability. Breck is manufactured at Haworth's facility in Bruce, MS – an ISO 14001 certified manufacturing facility. This product can be easily disassembled at the end of its useful life. Components are identified with ISO recycling symbols and material information to assist in the recycling effort, where practical. Haworth will take back Breck chairs after their useful life and recycle the components.

Results were calculated for a single configuration of the seating product. The office chair configuration reviewed (SBTS-2F-711A5K) consists of a mesh back, backstop forward tilt with adjustable seat depth, lumbar support, 4D arms and a plastic base. This is considered to be a high selling, also known as "typical," configuration of the Breck seating products. Other styles of Breck that are represented by the assessed product have the same basic structure and material composition but can exclude certain components or consist of different materials that are believed to have impacts within 10% of this representative configuration.

This product falls under UN CPC 3811.

The composition of the chair reviewed is provided below, with a total product weight of 13.81 kg. Material composition is reported per unit of product.

Material	[kg]	[%]	Recycled Content [%]	Resource Type
Nylon PA6	6.64	48%	69%	Recycled, Virgin Non-renewable
Steel	2.45	18%	34%	Recycled, Virgin Non-renewable
Polypropylene	1.57	11%	91%	Recycled, Virgin Non-renewable
Aluminum	1.06	8%	100%	Recycled Non-renewable
Polyoxymethylene	1.02	7%	0%	Virgin Non-renewable
Polyurethane	0.90	7%	0%	Virgin Non-renewable
Other	0.17	1%	34%	Recycled, Virgin Non-renewable
Packaging				
Cardboard	3.63	98%	47%*	Recycled, Virgin Renewable
PE	0.02	1%	0%	Virgin, Non-renewable
LLDPE	0.02	1%	0%	Virgin, Non-renewable
PP	0.01	<1%	0%	Virgin, Non-renewable
Paper	<0.01	<1%	0%*	Virgin, Renewable

<sup>\*</sup>Recycled content of cardboard and paper packaging is an average value associated with background LCI datasets.

### **Additional Environmental Information**

- The product under review is manufactured at a zero waste-to-landfill facility that is ISO 14001- and ISO 9001-certified. In addition, this product has the following certifications:
- GREENGUARD Gold Certified
- BIFMA LEVEL 3 Certified
- Best of NeoCon Gold Award

- Metropolis Likes NeoCon Award
- Best of NeoCon Sustainability Award

### **Functional Unit**

The functional unit according to the PCR is one unit of seating to seat one individual, maintained for a 10-year period produced in North America. The product under study has a 10-year service life under ANSI/BIFMA X5.1 and therefore does not require replacements to meet the functional unit.

### **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.

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

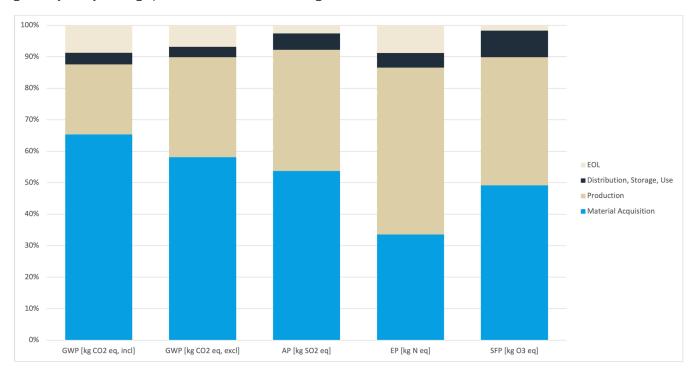
Production of capital goods, infrastructure, and personnel-related activities are excluded, as required by the BIFMA PCR for seating.

### **LCA Results**

All results are given per functional unit, which is one unit of seating to seat one individual, maintained for a 10-year period. Results are reported separately by life cycle stage per the BIFMA PCR for seating. It is discouraged to use of 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 CO <sub>2</sub> eq]	3.54E+01	1.20E+01	2.01E+00	4.72E+00	5.42E+01
Global Warming Potential, excl biogenic [kg CO <sub>2</sub> eq]	3.54E+01	1.94E+01	2.01E+00	4.16E+00	6.09E+01
TRACI 2.1 LCIA Impacts					
Acidification Potential [kg SO <sub>2</sub> eq]	9.70E-02	6.95E-02	9.34E-03	4.70E-03	1.80E-01
Eutrophication Potential [kg N eq]	6.02E-03	9.49E-03	8.25E-04	1.58E-03	1.79E-02
Ozone Depletion Potential [kg CFC 11 eq]	1.34E-12	1.11E-10	5.19E-15	2.08E-14	1.13E-10
Smog Formation Potential [kg O <sub>3</sub> eq]	1.27E+00	1.05E+00	2.18E-01	4.46E-02	2.58E+00
Resource Use Indicators					
Renewable primary resources used as energy carrier [MJ]	4.77E+01	3.01E+01	1.13E+00	7.85E-01	7.97E+01
Renewable primary resources with energy content used as material [MJ]	0	5.08E+01	0	0	5.08E+01
Renewable primary resources, total [MJ]	4.77E+01	8.09E+01	1.13E+00	7.85E-01	1.31E+02
Non-renewable primary resources used as energy carrier [MJ]	4.74E+02	2.10E+02	2.83E+01	7.84E+00	7.20E+02
Non-renewable primary resources with energy content used as a material [MJ]	4.74E+02	2.10E+02	2.83E+01	7.84E+00	7.20E+02
Non-renewable primary resources, total [MJ]	9.47E+02	4.19E+02	5.66E+01	1.57E+01	1.44E+03
Recovered energy [MJ]	0	2.71E+00	0	1.10E+01	1.37E+01
Net fresh water usage [kg]*	8.15E-01	1.28E-01	3.87E-03	1.82E-02	9.65E-01
*Water usage from electricity generation is included					

The chart below presents the relative contribution of each life cycle stage to the TRACI 2.1 and IPCC environmental impact categories by life cycle stage per the BIFMA PCR for seating.



Additionally, results have been calculated using LCIA methodologies for core environmental impact categories specified in EN 15804+A2, as well as LCI indicators required by EN15804+A2. Results are reported per functional unit. For this product, 1 unit of product is required to meet the functional unit. The results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks. It is discouraged to use of results for A1-A3 without considering the results for C1-C4.

	Product Stage	Construction Stage			Us	e Sta	ge				End of Life	Load	Benefits and Loads Beyond the System Boundary		
	A1-A3	A4	A5	B1	В2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Climate Change - total [kg CO2 eq.]	4.74E+01	2.02E+00	7.06E+00	0	0	0	0	0	0	0	0	3.56E-02	3.31E+00	2.24E-01	-4.36E+00
Climate Change, fossil [kg CO2 eq.]	5.44E+01	2.01E+00	6.02E-02	0	0	0	0	0	0	0	0	3.55E-02	3.31E+00	2.24E-01	-4.36E+00
Climate Change, biogenic [kg CO2 eq.]	-7.00E+00	0	7.00E+00	0	0	0	0	0	0	0	0	0	0	0	0
Climate Change, land use and land use change [kg CO2 eq.]	1.13E-02	2.28E-03	2.05E-05	0	0	0	0	0	0	0	0	4.04E-05	3.14E-05	8.06E-05	-9.81E-04
Ozone depletion [kg CFC-11 eq.]	1.76E-10	2.46E-13	6.46E-14	0	0	0	0	0	0	0	0	4.36E-15	3.91E-13	5.29E-13	-5.70E-13
Acidification [Mole of H+ eq.]	1.87E-01	1.00E-02	1.84E-03	0	0	0	0	0	0	0	0	1.07E-04	7.42E-04	1.31E-03	-1.71E-02
Eutrophication, freshwater [kg P eq.]	6.81E-04	9.88E-06	1.57E-05	0	0	0	0	0	0	0	0	1.75E-07	1.62E-08	1.63E-04	-2.25E-04
Eutrophication, marine [kg N eq.]	4.36E-02	5.04E-03	3.81E-04	0	0	0	0	0	0	0	0	5.26E-05	1.86E-04	3.55E-04	-3.59E-03
Eutrophication, terrestrial [Mole of N eq.]	4.52E-01	5.56E-02	8.15E-03	0	0	0	0	0	0	0	0	5.81E-04	3.19E-03	3.61E-03	-3.38E-02
Photochemical ozone formation, human health [kg NMVOC eq.]	1.26E-01	1.03E-02	9.52E-04	0	0	0	0	0	0	0	0	1.04E-04	5.03E-04	9.94E-04	-1.00E-02
Resource use, mineral and metals [kg Sb eq.]*	2.33E-04	1.32E-07	2.26E-09	0	0	0	0	0	0	0	0	2.34E-09	-2.86E-09	1.29E-08	-7.33E-05
Resource use, fossils [MJ]*	9.30E+02	2.64E+01	5.72E-01	0	0	0	0	0	0	0	0	4.67E-01	3.21E+00	3.49E+00	-6.75E+01
Water use [m³ world equiv.]*	1.14E+01	1.17E-01	3.54E-02	0	0	0	0	0	0	0	0	2.07E-03	3.22E-01	3.27E-01	-9.27E-01



	Product Stage	Construction Stage		Construction Stage Use Stage			e Use Stage				End of Life	Load	Benefits and Loads Beyond the System Boundary		
	A1-A3	A4	A5	B1	В2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Use of renewable primary energy (PERE) [MJ]	1.29E+02	1.13E+00	5.56E-02	0	0	0	0	0	0	0	0	2.00E-02	2.85E-01	4.25E-01	-4.07E+01
Primary energy resources used as raw materials (PERM) [MJ]	5.08E+01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT) [MJ]	1.79E+02	1.13E+00	5.56E-02	0	0	0	0	0	0	0	0	2.00E-02	2.85E-01	4.25E-01	-4.07E+01
Use of non-renewable primary energy (PENRE) [MJ]	8.13E+02	2.83E+01	5.87E-01	0	0	0	0	0	0	0	0	5.01E-01	3.20E+00	3.55E+00	-6.82E+01
Non-renewable primary energy resources used as raw materials (PENRM) [MJ]	1.29E+02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT) [MJ]	9.42E+02	2.83E+01	5.87E-01	0	0	0	0	0	0	0	0	5.01E-01	3.20E+00	3.55E+00	-6.82E+01
Input of secondary material (SM) [kg]	9.75E+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of renewable secondary fuels (RSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of non renewable secondary fuels (NRSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of net fresh water (FW) [m3]	9.43E-01	3.87E-03	8.49E-04	0	0	0	0	0	0	0	0	6.84E-05	7.52E-03	9.77E-03	-1.17E-01
Hazardous waste disposed (HWD) [kg]	3.77E-06	8.14E-11	1.28E-11	0	0	0	0	0	0	0	0	1.44E-12	1.23E-10	8.56E-11	-9.62E-07
Non-hazardous waste disposed (NHWD) [kg]	4.65E+00	2.46E-03	7.74E-01	0	0	0	0	0	0	0	0	4.36E-05	6.91E-01	9.94E+00	-1.95E-01
Radioactive waste disposed (RWD) [kg]	2.88E-02	8.11E-05	8.14E-06	0	0	0	0	0	0	0	0	1.44E-06	1.07E-04	5.02E-05	-1.45E-03
High-level radioactive waste, conditioned, to final repository (HLRW) [kg]	3.26E-05	9.63E-08	9.41E-09	0	0	0	0	0	0	0	0	1.70E-09	1.27E-07	5.71E-08	-1.90E-06
Intermediate- and low-level radioactive waste, conditioned, to final repository (ILLRW) [kg]	2.87E-02	8.10E-05	8.13E-06	0	0	0	0	0	0	0	0	1.43E-06	1.07E-04	5.01E-05	-1.45E-03
Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



	Product Stage	Construc	tion Stage				Us	e Sta	ge				End of Life	Load	enefits and s Beyond the em Boundary
	A1-A3	A4	A5	B1	В2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Materials for Recycling (MFR) [kg]	4.11E-01	0	2.48E+00	0	0	0	0	0	0	0	0	0	1.76E+00	0	0
Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total recovered energy exported from the product system (EEE and EET) [MJ]	2.71E+00	0	1.03E+00	0	0	0	0	0	0	0	0	0	9.93E+00	0	0
Particulate matter [Disease incidences]	2.56E-06	9.98E-08	1.38E-08	0	0	0	0	0	0	0	0	1.15E-09	1.07E-08	1.47E-08	-1.82E-07
lonizing radiation, human health [kBq U235 eq.]**	2.77E+00	6.85E-03	7.31E-04	0	0	0	0	0	0	0	0	1.21E-04	9.06E-03	4.67E-03	-6.65E-02
Ecotoxicity, freshwater [CTUe]*	3.18E+02	2.21E+01	5.45E+00	0	0	0	0	0	0	0	0	3.91E-01	2.00E+00	9.99E+00	-2.73E+01
Human toxicity, cancer [CTUh]*	1.05E-06	5.12E-10	7.89E-11	0	0	0	0	0	0	0	0	7.11E-12	7.38E-11	2.33E-10	-2.76E-09
Human toxicity, non-cancer [CTUh]*	3.25E-07	8.31E-09	3.31E-09	0	0	0	0	0	0	0	0	1.45E-10	6.62E-09	2.36E-08	-2.10E-08
Land Use [Pt]*	2.36E+02	4.97E+00	6.86E-02	0	0	0	0	0	0	0	0	8.79E-02	2.46E-01	2.97E-01	-7.55E+01

The life cycle modules are defined by EN 15804 as follows: Product Stage – raw material supply, transport, and manufacturing; Construction Stage – distribution and installation; Use Stage – use of installed product, maintenance, repair, replacement, refurbishment, operational energy use, and operational water use; End of Life - deconstruction, transport of waste, waste processing, and disposal; Benefits and Loads Beyond the System Boundary - credits from energy and material capture.

<sup>\*</sup>The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

<sup>\*\*</sup>This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

### **Functional Unit**

Parameter	Value					
Declared unit	1 seat for 1 individual maintained for a 10-year period					
Number of occupants	1					
Reference service life required	10 years					
Biogenic carbon in product	0 kg C					
Biogenic carbon in packaging	5.72 kg C					

#### A4: Transport to the building site

Parameter	Value per functional unit
Transportation type	Truck
Fuel consumption	0.42
(l/km)	diesel
Distance	1424 km
Capacity utilization	67%
Capacity utilization volume factor	=1
Weight of product (kg)	13.8
Volume (m³)	0.519

### A5: Installation in the building

Parameter	Value per functional unit
Packaging waste produced	3.685 kg
Installation Assumptions	No product waste, Installed with hand tools.

### B2: Maintenance

Parameter	Value per functional unit
Maintenance Process	No maintenance is expected for this product
Maintenance cycle	0
Ancillary Materials for maintenance (kg/cycle)	0
Waste materials resulting from maintenance (kg)	0
Net fresh water consumption during maintenance (m³)	0
Energy input during maintenance (kWh)	0

### Reference service life (RSL)

Value per functional unit
10 years
Use as indicated in product brochure and warranty
Properties given in product description on page 3
Typical office and home environment
Typical office and home use

#### B3: Repair

Parameter	Value per functional unit
Repair process	No repairs are expected for this product
Inspection process	No repairs are expected for this product
Repair cycle (#/RSL)	0
Ancillary materials (kg)	0
Waste materials from repair (kg)	0
Net freshwater consumption during repair (m³)	0
Energy input during repair (kWh)	0

### **B4:** Replacement

Parameter	Value per functional unit
Replacement cycle (#/RSL)	0
Energy input during replacemen (kWh)	t 0
Exchange of worn parts during the products life cycle (kg)	0

### **B5:** Refurbishment

Parameter	Value per functional unit
Refurbishment process	No refurbishment is expected for this product
Refurbishment cycle (#/RSL)	0
Energy input during refurbishment (kWh)	0
Material input for refurbishment (kg)	0
Waste material resulting from refurbishment (kg)	0

### B6 and B7: Use of energy and Use of Water

Parameter	Value per functional unit
Ancillary materials (kg)	0
Net freshwater consumption (m <sup>3</sup>	)0
Power output of equipment (kW)	0
Characteristic performance	n/a

### C1-C4: End-of-life

Parameter	Value per functional unit
Weight of product collected	13.8 kg
Weight to recycling	1.94 kg
Weight to energy recovery	2.06 kg
Weight to landfill	9.81 kg
Distance to recycling	32.2 km
Distance to energy recovery	32.2 km
Distance to landfill	32.2 km

### References

- 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.Life Cycle Assessment, LCA Report for Haworth. WAP Sustainability Consulting. July 2023.
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