



quiet tables

Environmental Product Declaration

Date of Issue: 11/1/2021

Date of Expiration: 11/1/2026

PRODUCT CATEGORY RULE

BIFMA PCR for Tables, UNCPC 3812

FUNCTIONAL UNIT

1 m² of physical floor space (workspace and storage) for a period of 10 years.



Certified
Environmental
Product Declaration
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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	Bernhardt Design 1839 Morganton Blvd, Lenoir NC, 28645
Declaration Number	EPD10664
Declared Product and Functional Unit	1 m2 of physical floor space (workspace and storage) for a period of 10 years.
Reference PCR and Version Number	BIFMA PCR for Tables: UNCPC 3812
Product's intended Application and Use	Commercial Furniture
Product RSL	10 years
Markets of Applicability	North America
Date of Issue	11/1/2021
Period of Validity	5 years from date of issue
EPD Type	Product Specific
Range of Dataset Variability	N/A
EPD Scope	Cradle to Grave
Intended Audience	Business-to-Business, Business-to-Consumer
Year of reported manufacturer primary data	2020
LCA Software and Version Number	GaBi 10.0.0.20
LCI Database and Version Number	GaBi Database Version 2021.1
LCIA Methodology and Version Number	IPCC AR5 + 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 14025: 2006. The BIFMA PCR for Tables: UNCPC 3812 serves as the core PCR. <input type="checkbox"/> Internal <input checked="" type="checkbox"/> External	 Tony Favilla afavilla@nsf.org
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	WAP Sustainability Consulting
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Jack Geibig jgeibig@ecoform.com
<p>Limitations: Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR. Full conformance with the PCR allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible". Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared. Additional information on the life cycle assessment can be found by contacting Bernhardt directly. 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.</p>	

Company Description

Bernhardt Furniture Company was founded in 1889 by John M. Bernhardt. Orphaned at 13, John Bernhardt left for Oregon to become a government surveyor but returned home three years later to pursue a career as a logger and timber cutter. After buying a sawmill, he saw an opportunity to use timber in the manufacture of sturdy oak bedroom furniture. The company he started quickly found a market in such urban centers as Chicago and New York City. As the business grew under the leadership of the Bernhardt family, new product categories, dining room and living room furniture were added and additional facilities were built or purchased from other furniture manufacturers.



In 1983, Bernhardt Furniture added a line of commercial furniture, Bernhardt Design, manufacturing quality conservatively styled casegoods, conference and occasional tables, guest, lounge and wood guest chairs for the corporate and legal markets. Gradually, the product line expanded stylistically, adding more contemporary products and multi-purpose tables and seating and conference chairs. Bernhardt Design markets to the architectural and design communities and is known for its excellence in design, winning many awards through the years. Its products are sold globally through sales representatives and selected dealers. The 20,000 sq. ft. flagship showroom is located on Madison Avenue in New York City.

Product Description

The Quiet Table collection is a comprehensive table system that offers over 550 different options and combinations. The collection includes occasional tables available in two heights, a series of mid height work tables for use with lounge seating, conference/cafe tables and bar height tables. All tables are available in solid and woodgrain laminates, maple, oak, paldao and walnut veneers, back-painted etched glass and glacier white solid surface. Bases are brushed stainless steel and are available in eight powder coat finishes. Given the large number of top and base options, it was not possible to capture all scenarios and pick representative products. The products selected represent a cross-section only of possible height and surfacing options.

Additional Environmental Information

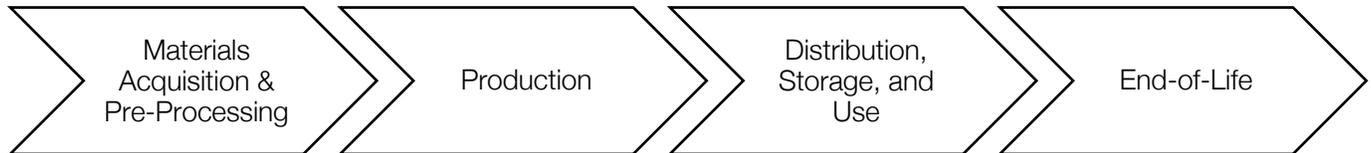
Quiet Tables are GREENGUARD Gold Certified and comply with ANSI/BIFMA X5.5 2014 along with CDPH Standard Method v1.2-2017.

Bernhardt Design products are designed and engineered to last for many years. Frequently, whether designed under the Design for the Environment program or a legacy product, the life span of the product is longer than customers require, resulting in the issue of disposal. While disposal in a landfill can occur, Bernhardt Design offers alternatives to discarding products as found at <https://bernhardtdesign.com/environmental/recovery/>.

Functional Unit

The functional unit is 1 m² of workspace, 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 Bernhardt and upstream suppliers, as well as intermediate transport and packaging requirements.

Distribution, Storage, and Use | Includes the production-weighted average distribution to customers. No additional storage is required, and no use phase impacts are incurred.

End-of-Life | Includes transport to and disposal of product and packaging based on average US recycling rates for homogenous materials, and an 80/20 landfill/incineration rate for non-homogenous materials.

laminate occasional

L181FBA w/ LA184BA base

Product Composition

This occasional table consists of an 18” round laminate top and an 18” high stainless steel base. The composition of the table is provided below, with a total product weight of 10.0 kg and area of 0.164 m². The functional unit of 1 m² requires a scaling factor of 6.09 tables (0.164 functional units per table), equaling a reference flow mass of 61.2 kg.

Material	Mass %	Weight (kg)	Resource Type
<i>Top</i>			
MDF	22.7%	2.4	Renewable
Laminate	1.2%	0.1	Virgin Non-Renewable
<i>Base</i>			
Stainless steel	29.5%	3.0	Virgin Non-Renewable
Mixed metal	21.8%	2.2	Virgin Non-Renewable
Steel	16.2%	1.6	Virgin Non-Renewable
Nylon	3.6%	0.4	Virgin Non-Renewable
Adhesives/coatings	4.8%	0.5	Virgin Non-Renewable
Zinc	<1%	<0.1	Virgin Non-Renewable



Though materials may contain recycled content, minimum contents are not specified for any materials contained in the product, therefore it is affected by variability in the market. Best available industry data was used to model the upstream production of these materials.

LCA Results

All results are given per functional unit.

IPCC AR5 Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	1.91E+02	2.93E+02	1.03E+01	2.01E+01	5.14E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	1.74E+02	2.49E+02	1.03E+01	3.30E+01	4.67E+02

TRACI Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Acidification Potential	kg SO ₂ -eq	1.00E+00	1.31E+00	4.77E-02	1.09E-01	2.47E+00
Eutrophication Potential	kg N-eq	3.27E-02	1.72E-01	4.54E-03	2.77E-02	2.37E-01
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	1.89E+02	2.89E+02	1.03E+01	1.72E+01	5.06E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	1.72E+02	2.46E+02	1.02E+01	3.05E+01	4.59E+02
Ozone Depletion Potential	kg CFC-11 eq	5.70E-07	1.76E-07	2.04E-15	1.02E-14	7.46E-07
Smog Formation Potential	kg O ₃ -eq	9.06E+00	1.96E+01	1.10E+00	4.54E-01	3.02E+01

LCI Indicators

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Renewable primary resources used as an energy carrier	MJ	4.95E+02	5.71E+03	5.95E+00	3.82E+00	6.22E+03
Renewable primary resources with energy content used as a material	MJ	2.89E+02	3.54E+02	0.00E+00	0.00E+00	6.43E+02
Renewable primary energy resources, total	MJ	7.83E+02	6.07E+03	5.95E+00	3.82E+00	6.86E+03
Non-renewable primary resources used as an energy carrier	MJ	2.68E+03	5.70E+03	1.44E+02	4.92E+01	8.58E+03
Non-renewable primary resources with energy content used as a material	MJ	9.33E+01	1.70E+02	0.00E+00	0.00E+00	2.63E+02
Non-renewable primary energy resources, total	MJ	2.78E+03	5.87E+03	1.44E+02	4.92E+01	8.85E+03
Recovered Energy	MJ	0.00E+00	0.00E+00	0.00E+00	2.92E+01	2.92E+01
Net Fresh Water Usage	kg	1.04E+00	1.89E+00	2.54E-02	3.54E-02	2.99E+00

oak laptop

L241C w/ LZ263 base

Product Composition

This occasional table consists of a tapered oak top and a 26" high stainless steel base. The composition of the table is provided below, with a total product weight of 14.6 kg and area of 0.201 m². The functional unit of 1 m² requires a scaling factor of 4.99 tables (0.201 functional units per table), equaling a reference flow mass of 72.8 kg.

Material	Mass %	Weight (kg)	Resource Type
<i>Top</i>			
Chipcore with wood veneer	18.3%	2.7	Renewable
Paint	1.6%	0.2	Virgin Non-Renewable
<i>Base</i>			
Stainless steel	37.5%	5.5	Virgin Non-Renewable
Mixed metal	35.4%	5.2	Virgin Non-Renewable
Steel	<1%	<0.1	Virgin Non-Renewable
Nylon	3.4%	0.5	Virgin Non-Renewable
Adhesives/coatings	3.3%	0.5	Virgin Non-Renewable
Zinc	<1%	<0.1	Virgin Non-Renewable



Though materials may contain recycled content, minimum contents are not specified for any materials contained in the product, therefore it is affected by variability in the market. Best available industry data was used to model the upstream production of these materials.

LCA Results

All results are given per functional unit.

IPCC AR5 Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	2.53E+02	2.43E+02	1.60E+01	1.97E+01	5.31E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	2.37E+02	2.07E+02	1.59E+01	3.24E+01	4.92E+02

TRACI Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Acidification Potential	kg SO ₂ -eq	1.31E+00	1.13E+00	7.37E-02	1.10E-01	2.62E+00
Eutrophication Potential	kg N-eq	4.07E-02	1.43E-01	7.02E-03	2.75E-02	2.18E-01
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	2.51E+02	2.40E+02	1.58E+01	1.69E+01	5.24E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	2.35E+02	2.05E+02	1.58E+01	2.99E+01	4.85E+02
Ozone Depletion Potential	kg CFC-11 eq	4.96E-08	1.44E-07	3.15E-15	1.17E-14	1.94E-07
Smog Formation Potential	kg O ₃ -eq	1.13E+01	1.71E+01	1.70E+00	4.76E-01	3.05E+01

LCI Indicators

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Renewable primary resources used as an energy carrier	MJ	6.51E+02	4.68E+03	9.19E+00	4.35E+00	5.35E+03
Renewable primary resources with energy content used as a material	MJ	2.67E+02	2.90E+02	0.00E+00	0.00E+00	5.57E+02
Renewable primary energy resources, total	MJ	9.18E+02	4.97E+03	9.19E+00	4.35E+00	5.90E+03
Non-renewable primary resources used as an energy carrier	MJ	3.50E+03	4.71E+03	2.23E+02	5.57E+01	8.48E+03
Non-renewable primary resources with energy content used as a material	MJ	8.48E+01	1.39E+02	0.00E+00	0.00E+00	2.24E+02
Non-renewable primary energy resources, total	MJ	3.58E+03	4.85E+03	2.23E+02	5.57E+01	8.71E+03
Recovered Energy	MJ	0.00E+00	0.00E+00	0.00E+00	2.71E+01	2.71E+01
Net Fresh Water Usage	kg	1.97E+00	1.56E+00	3.93E-02	3.74E-02	3.61E+00

solid surface laptop

L2418 w/ LZ264 base

Product Composition

This occasional table consists of a tapered solid surface top and a 26" high stainless steel base. The composition of the table is provided below, with a total product weight of 16.5 kg and area of 0.201 m². The functional unit of 1 m² requires a scaling factor of 4.99 tables (0.201 functional units per table), equaling a reference flow mass of 82.5 kg.

Material	Mass %	Weight (kg)	Resource Type
<i>Top</i>			
Chipcore	29.4%	4.9	Renewable
Solid surface			Virgin Non-Renewable
<i>Base</i>			
Stainless steel	33.1%	5.5	Virgin Non-Renewable
Mixed metal	31.2%	5.2	Virgin Non-Renewable
Steel	<1%	<0.1	Virgin Non-Renewable
Nylon	3.0%	0.5	Virgin Non-Renewable
Adhesives/coatings	2.9%	0.5	Virgin Non-Renewable
Zinc	<1%	<0.1	Virgin Non-Renewable



Though materials may contain recycled content, minimum contents are not specified for any materials contained in the product, therefore it is affected by variability in the market. Best available industry data was used to model the upstream production of these materials.

LCA Results

All results are given per functional unit.

IPCC AR5 Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	3.05E+02	2.43E+02	1.26E+01	2.46E+01	5.85E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	2.89E+02	2.07E+02	1.26E+01	3.65E+01	5.46E+02

TRACI Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Acidification Potential	kg SO ₂ -eq	1.39E+00	1.13E+00	5.82E-02	1.07E-01	2.68E+00
Eutrophication Potential	kg N-eq	5.13E-02	1.43E-01	5.54E-03	2.83E-02	2.28E-01
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	3.03E+02	2.40E+02	1.25E+01	2.19E+01	5.77E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	2.86E+02	2.05E+02	1.25E+01	3.42E+01	5.38E+02
Ozone Depletion Potential	kg CFC-11 eq	5.24E-08	1.44E-07	2.49E-15	1.32E-14	1.96E-07
Smog Formation Potential	kg O ₃ -eq	1.28E+01	1.71E+01	1.35E+00	4.98E-01	3.17E+01

LCI Indicators

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Renewable primary resources used as an energy carrier	MJ	8.06E+02	4.68E+03	7.26E+00	4.90E+00	5.50E+03
Renewable primary resources with energy content used as a material	MJ	2.71E+02	2.90E+02	0.00E+00	0.00E+00	5.61E+02
Renewable primary energy resources, total	MJ	1.08E+03	4.97E+03	7.26E+00	4.90E+00	6.06E+03
Non-renewable primary resources used as an energy carrier	MJ	4.45E+03	4.71E+03	1.76E+02	6.35E+01	9.40E+03
Non-renewable primary resources with energy content used as a material	MJ	3.62E+02	1.39E+02	0.00E+00	0.00E+00	5.01E+02
Non-renewable primary energy resources, total	MJ	4.81E+03	4.85E+03	1.76E+02	6.35E+01	9.90E+03
Recovered Energy	MJ	0.00E+00	0.00E+00	0.00E+00	4.22E+01	4.22E+01
Net Fresh Water Usage	kg	2.16E+00	1.56E+00	3.10E-02	4.70E-02	3.80E+00

glass conference

L369G w/ LN294 base

Product Composition

This conference table consists of a 36” round glass top and a 29” high stainless steel base. The composition of the table is provided below, with a total product weight of 42.8 kg and area of 0.657 m². The functional unit of 1 m² requires a scaling factor of 1.52 tables (0.657 functional units per table), equaling a reference flow mass of 65.2 kg.

Material	Mass %	Weight (kg)	Resource Type
<i>Top</i>			
Glass	24.3%	10.4	Renewable
MDF	9.0%	3.9	Virgin Non-Renewable
Paint	<1%	0.2	Virgin Non-Renewable
<i>Base</i>			
Stainless steel	26.4%	11.3	Virgin Non-Renewable
Mixed metal	16.5%	7.1	Virgin Non-Renewable
Steel	19.8%	8.5	Virgin Non-Renewable
Nylon	2.0%	0.9	Virgin Non-Renewable
Adhesives/coatings	1.3%	<0.5	Virgin Non-Renewable
Zinc	<1%	<0.1	Virgin Non-Renewable



Though materials may contain recycled content, minimum contents are not specified for any materials contained in the product, therefore it is affected by variability in the market. Best available industry data was used to model the upstream production of these materials.

LCA Results

All results are given per functional unit.

IPCC AR5 Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	1.71E+02	7.90E+01	1.66E+01	9.67E+00	2.76E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	1.64E+02	6.69E+01	1.66E+01	1.48E+01	2.62E+02

TRACI Results

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Acidification Potential	kg SO ₂ -eq	8.37E-01	4.16E-01	7.66E-02	5.15E-02	1.38E+00
Eutrophication Potential	kg N-eq	2.90E-02	4.74E-02	7.29E-03	1.19E-02	9.56E-02
Global Warming Potential, incl biogenic C	kg CO ₂ -eq	1.69E+02	7.81E+01	1.64E+01	8.50E+00	2.72E+02
Global Warming Potential, excl biogenic C	kg CO ₂ -eq	1.63E+02	6.61E+01	1.64E+01	1.38E+01	2.59E+02
Ozone Depletion Potential	kg CFC-11 eq	6.47E-07	4.40E-08	3.27E-15	1.01E-14	6.91E-07
Smog Formation Potential	kg O ₃ -eq	9.36E+00	6.64E+00	1.77E+00	3.08E-01	1.81E+01

LCI Indicators

Impact Category	Unit	Material Acquisition	Production	Distribution, Storage, Use	End-of-Life	Total
Renewable primary resources used as an energy carrier	MJ	3.48E+02	1.45E+03	9.55E+00	3.75E+00	1.81E+03
Renewable primary resources with energy content used as a material	MJ	1.14E+02	9.85E+01	0.00E+00	0.00E+00	2.13E+02
Renewable primary energy resources, total	MJ	4.62E+02	1.55E+03	9.55E+00	3.75E+00	2.02E+03
Non-renewable primary resources used as an energy carrier	MJ	2.34E+03	1.50E+03	2.32E+02	4.72E+01	4.12E+03
Non-renewable primary resources with energy content used as a material	MJ	4.54E+01	4.25E+01	0.00E+00	0.00E+00	8.79E+01
Non-renewable primary energy resources, total	MJ	2.39E+03	1.54E+03	2.32E+02	4.72E+01	4.21E+03
Recovered Energy	MJ	0.00E+00	0.00E+00	0.00E+00	1.11E+01	1.11E+01
Net Fresh Water Usage	kg	6.76E-01	4.91E-01	4.08E-02	2.61E-02	1.23E+00

References

Life Cycle Assessment of Bernhardt Furniture Products. WAP Sustainability. July 2021.

BIFMA PCR for Tables, UNCPC 3812. NSF International.

ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

ISO 14040:2006 Environmental management – Life cycle assessment – Principles and framework.

ISO 14044:2006 Environmental management – Life cycle assessment – Requirements and guidelines.

