

Steelcase Series[®] 2



EMEA



About this product

Steelcase Series[®] 2 offers attainable performance with a boost of expression. The geometric back design comes in standard or quilted upholstery, or plenty of 3D Microknit or Air back options.

One chair is required to meet the functional unit of seating one individual for a 10-year period.

Date of Issue: February 17, 2023 Date of Expiration: February 17, 2028

About this document

This declaration describes the Life Cycle Assessment of the Series 2 task chair produced for EMEA markets by Steelcase Inc. in France. The assessment is performed according to the ISO standards 14040 (2006), 14044 (2006) and 14025 (2006), EN 15804+A2 and BIFMA PCR for Seating: UNCPC 3811 (2020) to generate an EPD for business-to-business and business-toconsumer communication.

Learn more

- Explore Steelcase environmental philosophy and commitments overview.
- Find product details and sustainability certifications on the product page at steelcase.com.
- See our product warranty.
- Contact epd@steelcase.com for any EPD-related questions or inquiries.

ASSESSMENT OVERVIEW

EPD commissioner	Steelcase® Inc
Corporate Address	901 44th Street SE Grand Rapids, Michigan 49508-7594 United States
Product group	Seating
Product name	Steelcase Series [®] 2
Product intended use	Office Chair
Product reference service life	10 years
Reference standards	ISO 14025, ISO 14040, ISO 14044, EN 15804+A2
EPD scope	Cradle to grave
EPD number	EPD10854
Date of issuance	February 17, 2023
Date of expiration	February 17, 2028
EPD type	Product specific
EPD Product Coverage	Series 2 task chairs for the EMEA market, including the following codes: 436AIR3D, 436UPH, 436 AIR S, 436 AIR 3DS, 436 UPH S, 436 AIR STOOL, 436 AIR 3DSTOOL, 436 UPH STOOL, 436 AIR STOOLS, 436 AIR 3DSTOOLS, 436 UPH STOOLS, 436 AIR, 436AIR I, 436AIR3D I, 436UPH I, 436 AIR S I, 436 AIR 3DS I, 436 UPH S I, 436 AIR STOOL I, 436 AIR 3DSTOOL I, 436 UPH STOOL I, 436 AIR STOOLS I, 436 AIR 3DSTOOLS I, 436 UPH STOOLS I
Intended audience	Business to business and business to consumer
Year of reported manufacturer data	2021
Functional unit	One unit of seating to seat one individual for a reference service life of 10 years
Applicable markets/regions	EMEA
LCA software and database version	GaBi 10.6.2.9; GaBi database, 2022.2
LCIA methodology and version number	TRACI 2.1 and CML 2001-October 2012
Program administrator	NSF Certification LLC 789 N. Dixboro, Ann Arbor, MI 48105 www.nsf.org
Reference PCR and version number	BIFMA PCR for Seating: UNCPC 3811 (BIFMA PCR, 2020)
PCR reviewer	Review Panel Chaired by Dr. Thomas Gloria
EPD reviewer	External review conducted by:

Jack Geibig, jgeibig@ecoform.com

Jack Heiling

This declaration and its Life Cycle Assessment was independently verified in accordance with ISO standards 14040 (2006), 14044 (2006) and 14025 (2006), BIFMA PCR for Seating UNCPC 3811 (2020), and EN 15804+A2.

LCA reviewer

External review conducted by:

Jack Geibig, jgeibig@ecoform.com

Jack Heiling

The product Life Cycle Assessment was conducted in accordance with ISO 14044, EN 15804+A2, and the reference PCR.

The PCR this EPD was based on was written to determine the potential environmental impacts of a 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.

Disclaimer

ASSESSMENT PARAMETERS

Functional unit

One unit of seating to seat one individual for a reference service life of 10 years. One product required to fulfill the functional unit.

Product scope

One Series 2 Chair (product number 436UPHSTOOL) with a stool, hard casters, 4D arms, upholstered back, lumbar, headrest, synchro mechanism, and a metal base was modeled for this EPD. This office chair configuration was determined to have the highest potential impacts of all model configurations produced in EMEA, making the results reported in this EPD conservative and thus representative of all products listed.

Manufacturing location	Product codes within the variation allowance	Applicable markets and regions
Sarrebourg, France	436AIR3D, 436UPH, 436 AIR S, 436 AIR 3DS, 436 UPH S, 436 AIR STOOL, 436 AIR 3DSTOOL, 436 UPH STOOL, 436 AIR STOOLS, 436 AIR 3DSTOOLS, 436 UPH STOOLS, 436 AIR, 436AIR I, 436AIR3D I, 436UPH I, 436 AIR S I, 436 AIR 3DS I, 436 UPH S I, 436 AIR STOOL I, 436 AIR 3DSTOOL I, 436 UPH STOOL I, 436 AIR STOOLS I, 436 AIR 3DSTOOLS I, 436 UPH STOOLS I	EMEA

Assessment goal and scope

The potential environmental impacts of Series 2 and its packaging throughout its entire life cycle – including raw materials extraction, production, transport, use, and end of life – were assessed. In the absence of primary information, the GaBi database was used for secondary data.

The life cycle stages included in this assessment follow the BIFMA PCR for Seating: UNCPC 3811 V3 and the reporting format of EVS-EN 15804:2012+A2:2019 Sustainability of construction works – Environmental product declarations – core rules for the product category of construction products. Material acquisition and pre-processing (including transportation), production, distribution, use and end-of-life are assessed for the seating product.

Assessment boundary

The Life Cycle Assessment considers the full life cycle of the product as described here, cradle to grave. Life cycle stages included in this assessment follow the BIFMA PCR for Seating. Because the BIFMA PCR serves as the core PCR, life cycle stages and phases are first presented according to the PCR for seating, then additionally reported on by EN 15804+A2 life cycle modules.

		Stage	Status
$ \longrightarrow $	Cradle to inbound gate MATERIALS ACQUISITION	A1. Raw material supply	√
$O \land$	Raw material extraction, pre-processing and transportation of materials to suppliers.	A2. Transport	\checkmark
	Gate to gate PRODUCTION PROCESS Transportation of furniture components and materials from Tier 1 suppliers to Steelcase final manufacturing facility. External and internal production.	A3. Manufacturing	\checkmark
		A4. Transport	\checkmark
		A5. Installation	\checkmark
		B1. Use	\checkmark
		B2. Maintenance/cleaning	√
		B3. Repair	√
	Gate to grave	B4. Replacement	\checkmark
L L L L	DISTRIBUTION, USE AND END OF LIFE	B5. Refurbishment	\checkmark
	Distribution of products, installation, use and end of life.	B6. Operational energy use	\checkmark
		B7. Operational water use	\checkmark
		C1. Disassembly	√
		C2. Transport	\checkmark
		C3. Waste processing	✓
		C4. Disposal	\checkmark
	Beyond the boundary	D. Reuse/recovery	√

MATERIALS

The product composition, packaging composition, recycled content, and recyclability visuals below relate specifically to the configuration with highest impacts, including a stool, hard casters, 4D arms, upholstered back, lumbar, headrest, and a metal base.

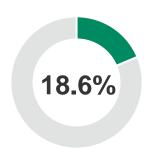
Product composition

Material	Weight (kg)	Weight (%)	Resource Type
Steel	7.264	34.00%	Recycled, Virgin non-renewable
Nylon (PA6)	5.594	26.10%	Virgin non- renewable
Polyurethane (PU)	2.724	12.70%	Virgin non- renewable
Polypropylene (PP)	2.557	12.00%	Virgin non- renewable
Aluminum	2.027	9.50%	Recycled, Virgin non-renewable
Polyoxymethy- lene (POM)	0.443	2.10%	Virgin non- renewable
Polyester Fabric	0.302	1.40%	Virgin non- renewable
Other	0.471	2.20%	Virgin non- renewable
Total	21.382	100%	

Product packaging composition

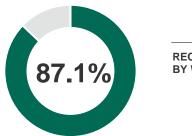
Material	Weight (kg)	Weight (%)	Resource Type
Cardboard	3.624	96.94%	Renewable
Polyethylene (PE) foam	0.096	2.57%	Non-renewable
Polypropylene (PP)	0.018	0.49%	Non-renewable
Total	3.738	100%	

Product recycled content* and recyclability** summary



TOTAL RECYCLED CONTENT *

*Total recycled content based on supplier's data. The source of recycled content of various materials could be either post-industrial or post-consumer based on market availability.



RECYCLABILITY BY WEIGHT**

**Recyclability: this recyclability rate is the maximum amount of the product that is recyclable, based on the availability of recycling facilities in the specified regions and the ability of the product to be disassembled. Note that, per the requirements of the PCR, the end-of-life results presented in this EPD were calculated using the US EPA's recycling rates within the 2020 Municipal Solid Waste Report for parts that can be disassembled.

RESULTS

Results for one Series 2 Chair with a stool, hard casters, 4D arms, an upholstered back, lumbar, headrest, synchro mechanism, and a metal base are shown below. As this configuration is considered the worst-case, these results represent the maximum impacts for Series 2 Chair produced in EMEA.

Life cycle impact by category and stage

Environmental impacts were calculated using the GaBi software platform. Impact results according to the BIFMA PCR have been calculated using TRACI 2.1 characterization factors, as well as LCI indicators for primary energy and water usage. Results presented in this report are for one seat maintained for one individual for 10 years. Additionally, the results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks.

		Life	cycle stages		
Unit	Materials acquisition	Production process	Distribution & Use	End of life	Totals
kg CO2 eq	9.43E+01	2.28E+01	2.33E+00	6.35E+00	1.26E+02
kg SO2 eq	2.09E-01	1.08E-01	1.17E-02	3.51E-03	3.32E-01
kg O3 eq	3.40E+00	1.58E+00	2.67E-01	4.96E-02	5.30E+00
kg N eq	6.21E+00	5.65E+00	1.84E-01	9.60E-02	1.21E+01
kg CFC-11 eq	2.88E-12	6.21E-10	4.39E-15	6.05E-14	6.24E-10
MJ	1.95E+03	6.96E+02	3.40E+01	1.83E+01	2.70E+03
kg	4.85E+02	2.47E+02	4.52E+00	1.40E+01	7.51E+02
	kg CO2 eq kg SO2 eq kg O3 eq kg N eq kg CFC-11 eq MJ	Unit acquisition kg CO2 eq 9.43E+01 kg SO2 eq 2.09E-01 kg O3 eq 3.40E+00 kg N eq 6.21E+00 kg CFC-11 eq 2.88E-12 MJ 1.95E+03	Materials acquisitionProduction processkg CO2 eq9.43E+012.28E+01kg SO2 eq2.09E-011.08E-01kg O3 eq3.40E+001.58E+00kg N eq6.21E+005.65E+00kg CFC-11 eq2.88E-126.21E-10MJ1.95E+036.96E+02	Unit acquisition process & Use kg CO2 eq 9.43E+01 2.28E+01 2.33E+00 kg SO2 eq 2.09E-01 1.08E-01 1.17E-02 kg O3 eq 3.40E+00 1.58E+00 2.67E-01 kg N eq 6.21E+00 5.65E+00 1.84E-01 kg CFC-11 eq 2.88E-12 6.21E-10 4.39E-15 MJ 1.95E+03 6.96E+02 3.40E+01	Materials acquisition Production process Distribution & Use End of life kg CO2 eq 9.43E+01 2.28E+01 2.33E+00 6.35E+00 kg SO2 eq 2.09E-01 1.08E-01 1.17E-02 3.51E-03 kg O3 eq 3.40E+00 1.58E+00 2.67E-01 4.96E-02 kg N eq 6.21E+00 5.65E+00 1.84E-01 9.60E-02 kg CFC-11 eq 2.88E-12 6.21E-10 4.39E-15 6.05E-14 MJ 1.95E+03 6.96E+02 3.40E+01 1.83E+01

Global warming potential summary



Life cycle resource consumption & waste summary

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. The results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks.

		Product Stage	Construc	tion Stage				Us	e Stag	е				End of Life	9	Benefits and Loads Beyond the System Boundary
	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Climate change, total	kg CO2 eq	1.21E+02	2.37E+00	1.77E+00	0	0	0	0	0	0	0	0	5.41E-02	4.18E+00	7.67E-01	-7.08E+00
Climate change, fossil	kg CO2 eq	1.27E+02	2.37E+00	1.34E-01	0	0	0	0	0	0	0	0	5.38E-02	4.17E+00	7.73E-01	-1.10E+01
Climate change, biogenic	kg CO2 eq	-6.65E+00	1.80E-03	1.63E+00	0	0	0	0	0	0	0	0	2.79E-04	4.05E-03	-6.60E-03	3.97E+00
Climate change, land use and land use change	kg CO2 eq	2.31E-02	1.61E-03	4.16E-05	0	0	0	0	0	0	0	0	3.35E-05	-2.64E-04	4.23E-04	-3.97E-03
Ozone depletion	kg CFC-11 eq	7.18E-10	2.11E-13	1.32E-13	0	0	0	0	0	0	0	0	4.89E-15	1.77E-12	1.07E-12	-8.95E-11
Resource use, fossils**	MJ	2.29E+03	3.05E+01	1.23E+00	0	0	0	0	0	0	0	0	7.04E-01	3.31E+00	1.10E+01	-1.69E+02
Eutrophication, marine	kg N eq	8.75E-02	6.07E-03	2.50E-04	0	0	0	0	0	0	0	0	1.02E-04	-5.39E-05	6.25E-04	-7.90E-03
Eutrophication, terrestrial	Mole of N eq	9.04E-01	6.69E-02	1.84E-03	0	0	0	0	0	0	0	0	1.13E-03	4.15E-04	6.86E-03	-7.78E-02
Eutrophication, freshwater	kg PO4 eq	7.79E-04	1.17E-05	1.07E-05	0	0	0	0	0	0	0	0	2.42E-07	1.44E-07	1.57E-04	-5.20E-05
Acidification	Mole of H+ eq	3.54E-01	1.27E-02	4.76E-04	0	0	0	0	0	0	0	0	2.08E-04	-3.07E-04	2.62E-03	-2.83E-02
Water use**	m3 world equiv	1.86E+01	1.37E-01	4.85E-02	0	0	0	0	0	0	0	0	2.88E-03	5.42E-01	1.69E-03	-1.43E+00
Photochemical ozone formation, human health	kg NMVOC eq	2.81E-01	1.26E-02	8.34E-04	0	0	0	0	0	0	0	0	2.00E-04	-1.54E-04	1.93E-03	-2.38E-02
Resource use, mineral and metals**	kg Sb eq	1.93E-04	7.47E-07	9.71E-09	0	0	0	0	0	0	0	0	1.55E-08	3.02E-09	7.30E-08	-3.77E-05
Use of renewable primary energy (PERE)	MJ	2.98E+02	1.26E+00	1.10E-01	0	0	0	0	0	0	0	0	2.66E-02	9.43E-01	9.39E-01	-9.62E+01
Primary energy resources used as raw materials (PERM)	MJ	5.07E+01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT)	MJ	3.49E+02	1.26E+00	1.10E-01	0	0	0	0	0	0	0	0	2.66E-02	9.43E-01	9.39E-01	-9.62E+01

STEELCASE SERIES[®] 2 | ENVIRONMENTAL PRODUCT DECLARATION | STEELCASE EMEA

		Product Stage	Construc	tion Stage				Us	e Stag	е				End of Life	9	Benefits and Loads Beyond the System Boundary
	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of non-renewable primary energy (PENRE)	MJ	1.86E+03	3.27E+01	1.24E+00	0	0	0	0	0	0	0	0	7.49E-01	3.29E+00	1.10E+01	-1.70E+02
Non-renewable primary energy resources used as raw materials (PENRM)	MJ	4.42E+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	2.30E+03	3.27E+01	1.24E+00	0	0	0	0	0	0	0	0	7.49E-01	3.29E+00	1.10E+01	-1.70E+02
Input of secondary material (SM)	kg	7.45E+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
Recovered energy (RE)	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of net fresh water (FW)	m3	7.32E-01	4.52E-03	1.18E-03	0	0	0	0	0	0	0	0	9.47E-05	1.24E-02	3.99E-04	-5.78E-02
Hazardous waste disposed (HWD)	kg	1.12E-05	1.36E-10	1.57E-10	0	0	0	0	0	0	0	0	2.98E-12	3.18E-10	1.49E-09	-1.27E-06
Non-hazardous waste disposed (NHWD)	kg	9.65E+00	2.79E-03	7.84E-01	0	0	0	0	0	0	0	0	6.08E-05	7.66E-01	1.46E+01	-4.25E-02
Radioactive waste disposed (RWD)	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-level radioactive waste, conditioned, to final repository (HLRW)	kg	5.22E-05	1.07E-07	1.72E-08	0	0	0	0	0	0	0	0	2.25E-09	1.98E-07	1.32E-07	-4.06E-06
Intermediate- and low- level radioactive waste, conditioned to final repository (ILLRW)	kg	7.72E-02	9.05E-05	1.79E-05	0	0	0	0	0	0	0	0	1.90E-06	2.48E-04	1.29E-04	-5.24E-03
Components for re-use (CRU)	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials for recycling (MFR)	kg	2.32E+00	0	2.48E+00	0	0	0	0	0	0	0	0	0	3.68E+00	0	0
Material for energy recovery (MER)	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exported electrical energy (EEE)	MJ	1.84E+00	0	9.60E-01	0	0	0	0	0	0	0	0	0	7.83E+00	0	0
Exported thermal energy (EET)	MJ	2.65E+00	0	9.14E-01	0	0	0	0	0	0	0	0	0	1.05E+01	0	0

STEELCASE SERIES[®] 2 | ENVIRONMENTAL PRODUCT DECLARATION | STEELCASE EMEA

		Product Stage	Construc	tion Stage				Us	se Stag	e				End of Life		Benefits and Loads Beyond the System Boundary
	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Biogenic carbon content in product	: kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.15E+00
Biogenic carbon content in packaging	: kg	5.71E+00	0	1.82E+00	0	0	0	0	0	0	0	0	0	0	0	3.90E+00
Particulate matter emissions (PM)	Disease incidence	3.96E-06	1.35E-07	4.24E-09	0	0	0	0	0	0	0	0	2.11E-09	-5.71E-09	2.68E-08	-3.07E-07
Ionizing human radiatior (IRP)*	kBq U235 eq.	1.50E+01	7.66E-03	2.64E-03	0	0	0	0	0	0	0	0	1.60E-04	4.08E-02	1.83E-02	-8.26E-01
Eco-toxicity freshwater (ETP-fw)	CTUe	9.83E+02	2.47E+01	1.26E+00	0	0	0	0	0	0	0	0	5.99E-01	1.37E+00	1.20E+01	-6.14E+01
Human toxicity - Cancer (HTP-c)	CTUh	4.32E-07	5.79E-10	4.78E-11	0	0	0	0	0	0	0	0	1.08E-11	7.86E-11	4.77E-10	-3.37E-09
Human toxicity - noncancer (HTP-nc)	CTUh	1.60E-06	1.63E-08	5.49E-09	0	0	0	0	0	0	0	0	3.55E-10	7.46E-09	4.47E-08	-1.19E-07
Land use related impacts / soil quality (SQP)	s n/a	3.30E+02	5.90E+00	1.26E-01	0	0	0	0	0	0	0	0	1.22E-01	6.36E-01	9.11E-01	-5.26E+02

* 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.
** 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 experienced with the 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						

A4: Transport to the building site								
Parameter	Value per functional unit	Value per functional unit						
Transportation type	Truck	Ship						
Fuel consumption (I/km)	0.42 diesel	130 heavy fuel oil						
Distance	410 km	1,142 km						
Capacity utilization	67%	53%						
Capacity utilization volume factor	=1	=1						
Weight of product (kg)		21.382						
Volume (m ³)		0.414						

A5: Installation in the building					
Parameter	Value per functional unit				
Packaging waste produced	3.738 kg				
Installation Assumptions	No product waste, Installed with hand tools.				

B1: Use

Parameter	Value per functional unit
There are no emissions related to the expected use of this product.	

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 (m ³)	0	
Energy input during maintenance (kWh)	0	

Reference service life (RSL)	
Parameter	Value per functional unit
Reference service life	10 years
Design application parameters	Use as indicated in product brochure and warranty
Declared product properties	Properties given in product description on page 3
Indoor environment	Typical office and home environment
Use conditions	Typical office and home use

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 (m ³)	0
Energy input during repair (kWh)	0

B4: Replacement

Parameter	Value per functional unit
Replacement cycle (#/RSL)	0
Energy input during replacement (kWh)	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 ³)	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	21.383 kg	
Weight to recycling	3.825 kg	
Weight to energy recovery	3.070 kg	
Weight to landfill	14.488 kg	
Distance to recycling	32.2 km	
Distance to energy recovery	32.2 km	
Distance to landfill	32.2 km	

ADDITIONAL ENVIRONMENTAL INFORMATION

Indoor air: Steelcase seating products are certified with SCS's Indoor Advantage Gold $^{\text{M}}$ program, conforming to the ANSI/BIFMA FurtnitureEmissions Standard (M7.1/X7.1-2011 R2021) and CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for seating. The certification can be found <u>here</u>.

REFERENCES

EN 15804:2012+A2.2019/AC:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products

Life Cycle Assessment, LCA Report for Steelcase. WAP Sustainability Consulting. November 2022.

NSF BIFMA Product Category Rule (PCR) for Seating: UNCPC 3811, Version 3. September 2020.

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, Requirements and Guidelines.

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Product Category Rule for Environmental Product Declarations, BIFMA PCR for Seating: UNCPC 3811 (ext. 2020-111)



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