

Marien152™

AMERICAS



Certified
Environmental
Product Declaration
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About this product

Marien152™ is a richly tailored seating experience that's inspired by the home and designed for the workday. Thoughtful comfort is the foundation of a modern residential expression, bringing a surprising level of support together with warm, inviting style. Design personalization is built in through a wide range of upholstery, color, base and materiality choices.

The reference products is COMARCCH5.

Date of Issue: July 20, 2026

Date of Expiration: July 20, 2031

Learn more

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

About this document

This declaration describes the Life Cycle Assessment of the Marien152™ office chair produced for the Americas by Steelcase Inc. in Reynosa, Mexico. The assessment is performed according to the ISO standards 14040 (2006), 14044 (2006) and 14025 (2006), and BIFMA PCR for Seating: UNCPC 3811 v4 2025 to generate an EPD for business-to-business communication.

ASSESSMENT OVERVIEW

EPD commissioner	Steelcase® Inc
Corporate Address	901 44th Street SE Grand Rapids, Michigan 49508-7594 United States
Product group	Seating
Product name	Marien152™
Product intended use	Office chair
Product reference service life	10 years
Reference standards	ISO 14025, ISO 14040, ISO 14044, ISO 21930
EPD scope	Cradle-to-gate with options A1-A3, A4-A5, B1, B4, C1-C4, and optionally D
EPD number	EPD11316
Date of issuance	July 20, 2026
Date of expiration	July 20, 2031
EPD type	Product specific
EPD Product Coverage	Marien 152 style COMARCCH5
Intended audience	Business to business (B2B)
Year of reported manufacturer data	2025
Functional unit	One unit of seating to seat one individual for a reference service life of 10 years
Applicable markets/regions	Americas
LCA software and database version	GaBi 10.6.2.9; GaBi database, 2022.2
LCIA methodology and version number	TRACI 2.2, CML2001, IPPC AR6, ISO 21930
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 v4 (2025)
PCR reviewer	Review Panel Chaired by Dr. Thomas Gloria
EPD reviewer	External review conducted by:



Jim Mellentine, Thrive ESG

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 v4 (2025), and ISO 21930

LCA reviewer	External review conducted by:
	Jack Geibig, jgeibig@ecoform.com
	
	The product Life Cycle Assessment was conducted in accordance with ISO 14044 and the reference PCR

Disclaimer	The PCR this EPD was based on was written to determine the potential environmental impacts of a seating product from cradle-to- gate with options A1-A3, A4-A5, B1, B4, C1-C4, and optionally D. 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 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.
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ASSESSMENT PARAMETERS

Functional unit

One unit of seating to seat one individual for a reference service life of 10 years. To fulfill the functional unit 1 unit is required.

Product scope

The product assessed is Coalesse Marien152 collaboration chair with back, surround, seat fabric: Grade 6 upholstery color scheme: non-contrasting, no backer with leather, pull polished aluminum hard casters.

Results presented on the subsequent pages are for Marien152.



Manufacturing location

Reynosa, Mexico

Product SKUs

Marien152 CO300

Applicable markets and regions

Americas

Assessment goal and scope

The potential environmental impacts of Marien152 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 v4. Material acquisition and pre-processing (including transportation), production, distribution, use and end-of-life are assessed for the office chair product, except the following use stages that are excluded per the PCR: maintenance, repair, refurbishment, and operational energy use and water.

Assessment boundary

The Life Cycle Assessment considers the full life cycle of the product from cradle to gate A1-A3 with options, A4-A5, B1, B4, C1-C4, and optionally Module D. Life cycle stages included in this assessment follow the BIFMA PCR for Seating UNCPC3811 V4 2025. Because the BIFMA PCR serves as the core PCR, life cycle stages and phases are first presented according to the PCR for seating.

	Stage	Status
 Cradle to inbound gate MATERIALS ACQUISITION Raw material extraction, pre-processing and transportation of materials to suppliers.	A1. Raw material supply	✓
	A2. Transport	✓
 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	✓
 Gate to grave DISTRIBUTION, USE AND END OF LIFE Distribution of products, installation, use and end of life.	A4. Transport	✓
	A5. Installation	✓
	B1. Use	✓
	B2. Maintenance/cleaning	MND
	B3. Repair	MND
	B4. Replacement	✓
	B5. Refurbishment	MND
	B6. Operational energy use	MND
	B7. Operational water use	MND
	C1. Disassembly	✓
	C2. Transport	✓
	C3. Waste processing	✓
	C4. Disposal	✓
Beyond the boundary	D. Reuse/recovery	MND

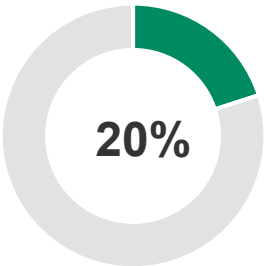
RESULTS

The product composition, packaging composition, recycled content, recyclability visuals, and life cycle impacts below relate specifically to one unit of seating to seat one individual for a reference service life of 10 years

Product composition per functional unit			Post-consumer		Pre-consumer	
Material	Weight (kg)	Weight (%)	%	Weight (kg)	%	Weight (kg)
Aluminum	2.942	24.64%	25	0.736	28	0.824
Steel	2.575	21.56%	16	0.412	20	0.515
Plywood	2.568	21.50%	0	0	0	0
PU foam	2.032	17.01%	0	0	0	0
Nylon 6/66	1.091	9.13%	0	0	0	0
HDPE	0.611	5.12%	0	0	0	0
Fabric polyester	0.055	0.46%				
Acetal	0.040	0.34%	0	0	0	0
Other	0.029	0.24%	0	0	0	0
Total	11.944	100%	--	1.148	--	1.339

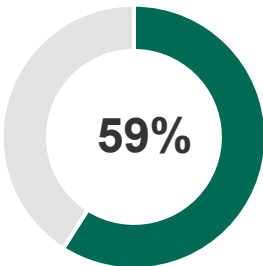
Product packaging composition per functional unit			Post-consumer		Pre-consumer	
Material	Weight (kg)	Weight (%)	%	Weight (kg)	%	Weight (kg)
Cardboard	2.905	82.39%	40	1.162	0	0
HDPE	0.363	10.30%	0	0	0	0
Paper	0.209	5.92%	0	0	0	0
PP	0.027	0.76%	0	0	0	0
PE	0.022	0.63%	0	0	0	0
Total	3.526	100%	--	1.162	--	0

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 rate is the maximum amount of the product that is recyclable, based on the availability of recycling facilities in the regions and the ability of the product to be disassembled. Per the requirements of the PCR, the end-of-life results presented in this EPD were calculated using the US EPA's Warm Model within the 2020 Municipal Solid Waste Report for parts that can be disassembled. Excludes packaging.

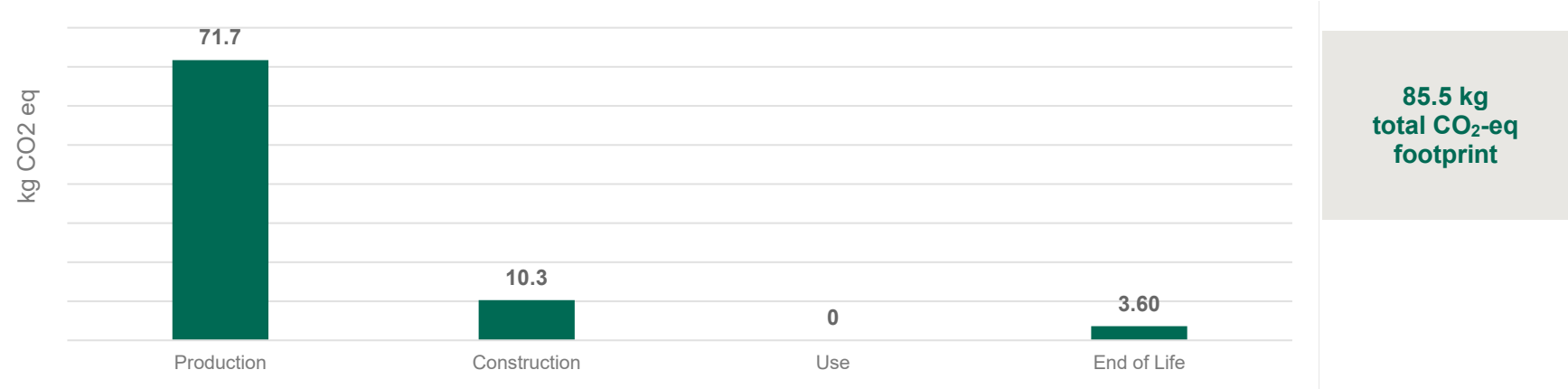
Life cycle impact by category and stage

Environmental impacts were calculated using the GaBi software platform. Impact results according to the BIFMA PCR have been calculated using TRACI 2.2, IPCC AR6 characterization factors, CML 2001, and ISO 21930 for multiple indicators. Results presented in this report are One unit of seating to seat one individual for a reference service life of 10 years. Additionally, the results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks. Use stage modules B2, B3, B5-B7 not declared.

Methods: IPCC AR6, TRACI 2.2, ISO 21930, CML 2001

Environmental impact indicators	Unit	Production	Construction	Use		End of life					Totals
		A1 - A3	A4	A5	B1	B4	C1	C2	C3	C4	
(GWP) Global warming potential 100 years excludes biogenic carbon	kg CO ₂ eq	7.17E+01	9.56E+00	6.92E-01	0	0	0	6.62E-02	1.86E+00	1.66E+00	8.55E+01
(GWP) Global warming potential 100 years includes biogenic carbon	kg CO ₂ eq	6.04E+01	9.61E+00	1.15E+00	0	0	0	6.65E-02	2.51E+00	2.38E+00	7.61E+01
(AP) Acidification potential	kg SO ₂ eq	3.04E-01	5.16E-02	1.75E-03	0	0	0	3.90E-04	3.91E-03	5.21E-03	3.66E-01
(POCP) Photochemical ozone creation (Smog)	kg O ₃ eq	3.71E+00	1.18E+00	1.24E-02	0	0	0	1.04E-02	8.29E-02	3.08E-02	5.03E+00
(EP) Eutrophication – fresh water	kg P eq	2.63E-04	6.21E-06	7.76E-06	0	0	0	3.60E-08	2.23E-07	4.43E-05	3.21E-04
(EP) Eutrophication - marine	kg N eq	1.09E-01	4.84E-02	6.22E-04				3.35E-04	2.29E-03	1.70E-03	1.62E-01
(ODP) Ozone depletion	kg CFC 11-eq	2.23E-07	3.32E-12	2.31E-13	0	0	0	2.21E-14	8.06E-13	4.45E-13	2.23E-07
Carbon emissions and removals											
(BCRP) Biogenic carbon removal from product	kg CO ₂ eq	5.05E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	5.05E+00
(BCEP) Biogenic carbon emission from product	kg CO ₂ eq	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	5.05E+00	5.05E+00
(BCRK) Biogenic carbon removal from packaging	kg CO ₂ eq	4.91E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	4.91E+00
(BCEK) Biogenic carbon emission from packaging	kg CO ₂ eq	0.00E+00	0.00E+00	4.91E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	4.91E+00
(BCEW) Biogenic carbon emission from combustion of renewable waste used in production	kg CO ₂ eq	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(CCE) Calcination carbon emissions	kg CO ₂ eq	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(CCR) Carbonation carbon removal	kg CO ₂ eq	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(CWNr) Carbon emission from combustion of non-renewable waste used in production	kg CO ₂ eq	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Output flows and waste categories											
(HWD) Hazardous waste disposed	kg	1.37E-03	2.54E-08	2.20E-10	0	0	0	1.73E-10	9.00E-11	5.29E-10	1.37E-03
(NHWD) Non-hazardous waste disposed	kg	6.99E+00	1.42E-02	9.67E-01	0	0	0	9.07E-05	3.05E-01	5.98E+00	1.43E+01
(HLRW) High-level radioactive waste, conditioned, to final repository	kg	3.34E-05	4.40E-07	1.13E-08	0	0	0	2.95E-09	3.80E-08	2.76E-08	3.39E-05
(ILLRW) Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	2.79E-02	3.69E-04	1.03E-05	0	0	0	2.48E-06	3.32E-05	2.43E-05	2.84E-02
(CRU) Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MFR) Materials for recycling	kg	1.31E+00	0.00E+00	2.16E+00	0	0	0	0.00E+00	2.20E+00	0.00E+00	5.66E+00
(MER) Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(EEE) Recovered electrical energy exported from the product system	MJ	5.95E-01	0.00E+00	7.49E-01	0	0	0	0.00E+00	4.66E+00	1.16E-03	6.01E+00
(EET) Recovered thermal energy exported from the product system	MJ	2.63E-01	0.00E+00	6.48E-01	0	0	0	0.00E+00	3.91E+00	2.87E-04	4.82E+00
Resource use indicators											
(RPRr) Renewable primary resources used as energy carrier	MJ	3.14E+02	4.89E+00	1.04E-01	0	0	0	2.88E-02	2.79E-02	3.14E-01	3.20E+02
(RPRm) Renewable primary resources with energy content used as material	MJ	4.36E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	4.36E+01
(NRPRr) Non-renewable primary resources used as energy carrier	MJ	7.16E+02	1.21E+02	8.27E-01	0	0	0	8.24E-01	6.63E+00	2.21E+00	8.48E+02
(NRPRm) Non-renewable primary resources with energy content used as material	MJ	2.13E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	2.13E+02
(SM) Secondary materials	kg	3.75E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	3.75E+00
(RSF) Renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(NRSF) Non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(RE) Recovered energy	MJ	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(FW) Use of net freshwater resources including water from electricity generation	m ³	3.93E-01	3.76E-03	1.07E-03	0	0	0	2.31E-05	8.23E-03	4.77E-04	4.06E-01
Primary energy demand (renewable-nonrenewable energy and materials)	MJ	1.29E+03	1.26E+02	9.30E-01	0	0	0	8.53E-01	6.66E+00	2.52E+00	1.42E+03
(ADP) Abiotic depletion potential fossil	MJ	1.06E+03	1.20E+02	7.97E-01	0	0	0	8.17E-01	5.93E+00	2.14E+00	1.19E+03

Global warming potential summary



TECHNICAL INFORMATION AND SCENARIOS FOR MODULES BEYOND THE FACTORY GATE

A4: Transport to the installation site

Parameter	Value per product	Value per product
Transportation type	Truck trailer	Ship
Fuel consumption (l/km)	0.42 diesel	130 heavy fuel oil
Distance*	4470 km	269 km

*Weighted average distance per product market share

B1, B2, B3, B4, B5, B6, B7: Use

There are no emissions, resources used or transportation related to these modules

A5: Installation in the building

Parameter	Value per functional unit
Installation Assumptions	No product waste Installed with hand tools
Energy use for installation	0 kWh
Transportation type for installation waste	Truck
Fuel consumption (l/km)	0.42 diesel
Distance	32.2 km
Packaging to recycling	2.180 kg
Packaging to energy recovery	0.269 kg
Packaging to landfill	1.077 kg

C1- C4: End-of-life

Parameter	Value per functional unit
Method of deconstruction	Hand tools
Method of recycling	Mechanical recycling
Method of energy recovery	Incineration
Final disposal of remaining parts	Landfilling
Transportation type	Truck
Fuel consumption (l/km)	0.42 diesel
Distance to waste processing site	32.2 km
Weight to recycling	1.963 kg
Weight to energy recovery	1.996 kg
Weight to landfill	7.984 kg

ADDITIONAL ENVIRONMENTAL INFORMATION

Indoor air: Steelcase seating products are certified with SCS's Indoor Advantage Gold™ program, conforming to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) and CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for seating. The certification can be found [here](#).

Improper disposal of product: At the end of its useful life, manage Steelcase 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.

REFERENCES

Life Cycle Assessment, LCA Report for Steelcase. WAP Sustainability Consulting November 2022. *Updated by Steelcase March 2024.*

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ACLCA Guidance to Calculating Non-LCIA Inventory Metrics in Accordance with ISO 21930:2017. May 2019

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.

ISO 14044:2006 Environmental Management – Life cycle assessment – Requirements and Guidelines.

ISO 14044: 2006/ Amd 1:2017 Environmental Management – Life cycle assessment – Requirements and Guidelines – Amendment 1.

ISO 21930:2017 Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services. NSF Certification Policies for Environmental Product Declarations (EPD). November 1, 2022.



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