Answer Fence

AMER

About this product

Answer Fence expands the possibilities for varied, easy-to-change work settings that feel more open and inviting. Answer Fence helps organizations optimize real estate by enabling space design that is efficient and hardworking, yet open and airy- even in a compressed footprint.

The reference product is Answer Fence including a foot to provide stability to the end of run and junctions. The floor space is 0.48 m^2 meaning 2.1 units are required to meet the functional unit of 1 m^2 of physical floor space for a 10-year reference service life.

Date of Issue: March 23rd, 2026
Date of Expiration: March 23rd, 2031

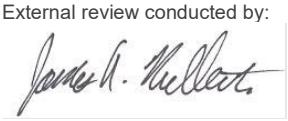
About this document

This declaration describes the Life Cycle Assessment of Answer Fence produced for the Americas market by Steelcase Inc. in multiple manufacturing locations in North America. The assessment is performed according to the ISO standards 14040 (2006), 14044 (2006) and 14025 (2006), and BIFMA PCR for Office Furniture Workspace v2 March 2025: UNCPC 3814 to generate an EPD for business-to-business 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	Workspace
Product name	Answer Fence
Product intended use	Office furniture
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	EPD11214
Date of issuance	March 23rd, 2026
Date of expiration	March 23rd, 2031
EPD type	Product specific
EPD Product Coverage	Answer Fence for the Americas market
Intended audience	Business to business (B2B)
Year of reported manufacturer data	2025
Functional unit	One square meter of physical floor space for a reference service life of 10 years
Applicable markets/regions	AMER
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 Office Furniture Workspace Products UNCPC 3814, Version 2
PCR reviewer	Review Panel Chaired by Alex MIsna
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 Office Furniture Workspace v2 March 2025, and ISO 21930.
LCA reviewer	External review conducted by:  Jim Mellentine, Thrive ESG The product Life Cycle Assessment was conducted in accordance with ISO 14044, ISO 21930, and the reference PCR.
Disclaimer	The PCR this EPD was based on was written to determine the potential environmental impacts of a workspace 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.

ASSESSMENT PARAMETERS

Functional unit

One square meter of physical floor space for a reference service life of 10 years under ANSI/BIFMA X5.6-2016 (R2021), Panel Systems.

The floor space of the referenced model is 0.48 m^2 meaning 2.1 units are required to meet the functional unit of 1 m^2 of physical floor space. All Answer Fence components have a 10-year Limited Lifetime Warranty.

Product scope

The product assessed is a typical application that represents Answer Fence's statement of line: One Answer Fence 6 pack with 72W powered fence sections with 13H x 72W Universal Screens on top and a straight spanning 72W x 42H boundary screen on one end and a fence foot to support the other. Styles included in the assessment:

TS76UPHXN - power infeed-multipurpose, 3+1, non pvc, 6l in ft
TS7DF - filler-data
TS7RC - receptacle
TS7RCT - trim ring-receptacle, power
TSF27EJ - junction-end of run, 27 1/2h
TSF27EJ - junction-end of run, 27 1/2h
TSF27IJ - junction-in line, 27 1/2h
TSF72HS - horizontal package, 72w
TSFF - foot
TSFRF - receptacle filler package, package quantity 20
TSFSC - universal; screen-centered
TSFSCSPN - screen-boundary, straight, spanning

Results presented on the subsequent pages are for Answer Fence manufactured in Athens, Alabama; Grand Rapids, Michigan; and Tijuana, Mexico. Per the PCR, Answer Fence is classified as subcategory Option A: Panels for division of space (no attached worksurface or storage) and used for space separation.

Assessment goal and scope

The potential environmental impacts of Answer Fence 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 Office Furniture Workspace Products UNCPC 3814, Version 2. Material acquisition and pre-processing (including transportation), production, distribution, use and end-of-life are assessed for the systems product.

Assessment boundary

The Life Cycle Assessment considers the full life cycle of the product as described here 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 Office Furniture Workspace V2 March 2025: UNCPC 3814. Because the BIFMA PCR serves as the core PCR, life cycle stages and phases are first presented according to the PCR for Workspace.

	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

MATERIALS

The product composition, packaging composition, pre- and post-consumer recycled content, and recyclability visuals below relate specifically to 1 m^2 of the Answer Fence configuration listed above.

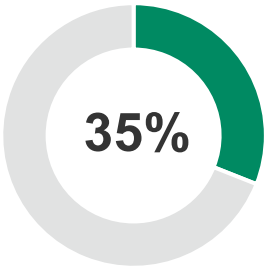
Product composition per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Steel	102.24	53.89%	24	24.54	22	22.49
Particle board	39.316	20.72%	0	0	50	19.66
Aluminum	31.361	16.53%	0	0	0	0
Electrical components	13.970	7.36%	0	0	0	0
ABS	1.175	0.62%	0	0	0	0
Fiberglass	1.157	0.61%	0	0	0	0
Other plastics	0.176	0.09%	0	0	0	0
Nylon (6/66)	0.146	0.08%	0	0	0	0
Polyester fabric	0.087	0.05%	0	0	0	0
PP	0.071	0.04%	0	0	0	0
PU foam	0.020	0.01%	0	0	0	0
Total	189.72	100.00%	--	**24.54**	--	**42.15**

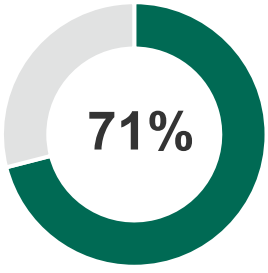
Product packaging per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Cardboard	22.436	63.65%	40	8.97	0	0
Particle Board	4.122	11.69%	0	0	0	0
OSB	3.505	9.94%	0	0	0	0
Paper	2.314	6.57%	0	0	0	0
Foam	1.142	3.24%	0	0	0	0
EPE	0.525	1.49%	0	0	0	0
Steel	0.466	1.32%	0	0	0	0
PP	0.391	1.11%	0	0	0	0
LDPE	0.286	0.81%	0	0	0	0
Other plastics	0.061	0.17%	0	0	0	0
Total	35.249	100.00%	--	**8.97**	--	**0**

Product recycled content* and recyclability** summary



TOTAL RECYCLED CONTENT *



RECYCLABILITY BY WEIGHT**

*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. Excludes packaging.

**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.

RESULTS

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, CML200, and ISO 21930 for multiple LC indicators. Results presented in this report are for one square meter of physical floor space for one occupant for 10 years. Additionally, the results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins. Use stage modules B2, B3, B5-B7 not declared.

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

		Production	*Construction*		*Use*		*End of Life*				
Environmental impact indicators	***Unit***	**A1–A3**	**A4**	**A5**	**B1**	**B4**	***C1***	***C2***	***C3***	***C4***	***Totals***
(GWP) Global warming potential 100 years excludes biogenic carbon	kg CO2eq	8.37E+02	1.14E+02	6.60E+00	0	0	0	1.04E+00	6.81E+00	2.82E+01	**9.93E+02**
(GWP) Global warming potential 100 years includes biogenic carbon	kg CO2eq	7.76E+02	1.14E+02	1.13E+01	0	0	0	1.04E+00	1.80E+01	4.06E+01	**9.62E+02**
(AP) Acidification potential	kg SO2e	3.32E+00	6.32E-01	1.79E-02	0	0	0	6.27E-03	4.17E-02	8.79E-02	**4.11E+00**
(POCP) Photochemical ozone creation	kg O3 eq	4.30E+01	1.45E+01	1.24E-01	0	0	0	1.66E-01	7.07E-01	5.01E-01	**5.90E+01**
(EP) Eutrophication - marine	kg N eq	1.37E+00	5.92E-01	6.33E-03	0	0	0	5.39E-03	1.93E-02	2.84E-02	**2.02E+00**
(ODP) Ozone depletion	kg CFC-11eq	1.82E-07	3.21E-11	1.39E-12	0	0	0	2.84E-13	9.34E-12	6.52E-12	**1.83E-07**
Carbon emissions and removals											
(BCRP) Biogenic carbon removal from product	kg CO2eq	2.89E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	**2.89E+01**
(BCEP) Biogenic carbon emission from product	kg CO2eq	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	2.89E+01	**2.89E+01**
(BCRK) Biogenic carbon removal from packaging	kg CO2eq	5.07E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	**5.07E+01**
(BCEK) Biogenic carbon emission from packaging	kg CO2eq	0.00E+00	0.00E+00	5.07E+01	0	0	0	0.00E+00	0.00E+00	0.00E+00	**5.07E+01**
(BCEW) Biogenic carbon emission from combustion of renewable waste used in production	kg CO2eq	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 CO2eq	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 CO2eq	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 CO2eq	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	0.00E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	**0.00E+00**
(NHWD) Non-hazardous waste disposed	kg	1.35E+02	1.49E-01	8.94E+00	0	0	0	1.26E-03	4.33E+00	8.63E+01	**2.34E+02**
(HLRW) High-level radioactive waste, conditioned, to final repository	kg	1.51E-04	5.96E-06	1.16E-07	0	0	0	5.31E-08	3.95E-07	4.71E-07	**1.58E-04**
(ILLRW) Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	1.28E-01	5.01E-03	1.06E-04	0	0	0	4.46E-05	3.38E-04	4.11E-04	**1.34E-01**
(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	5.30E+00	0.00E+00	2.23E+01	0	0	0	0.00E+00	5.64E+01	0.00E+00	**8.40E+01**
(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	4.76E+01	0.00E+00	6.78E+00	0	0	0	0.00E+00	2.83E+01	0.00E+00	**8.27E+01**
(EET) Recovered thermal energy exported from the product system	MJ	1.49E+01	0.00E+00	4.93E+00	0	0	0	0.00E+00	9.37E+00	0.00E+00	**2.92E+01**
Resource use indicators											
(RPRe) Renewable primary resources used as energy carrier	MJ	3.11E+03	6.06E+01	9.03E-01	0	0	0	4.72E-01	-2.98E-01	4.74E+00	**3.17E+03**
(RPRm) Renewable primary resources with energy content used as material	MJ	4.92E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	**4.92E+02**
(NRPRe) Non-renewable primary resources used as energy carrier	MJ	9.71E+03	1.46E+03	7.79E+00	0	0	0	1.31E+01	8.97E+01	3.35E+01	**1.13E+04**
(NRPRm) Non-renewable primary resources with energy content used as material	MJ	1.93E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	**1.93E+02**
(SM) Secondary materials	kg	9.91E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	**9.91E+01**
(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) Net freshwater use including water from electricity generation	M3	1.93E+01	6.55E-02	9.80E-03	0	0	0	5.15E-04	7.58E-02	8.73E-03	**1.95E+01**
Primary energy demand (renewable-nonrenewable energy and materials)	MJ	1.35E+04	1.52E+03	8.69E+00	0	0	0	1.36E+01	8.94E+01	3.82E+01	**1.52E+04**
(ADP) abiotic depletion potential fossil	MJ	9.70E+03	1.45E+03	7.49E+00	0	0	0	1.30E+01	8.00E+01	3.23E+01	**1.13E+04**

Global warming potential summary

993 kg total CO_2-eq footprint

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*	3123 km	97 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
Cardboard + paper for recycling	24.75 kg
Plastic for recycling	0.68 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	39.38 kg
Weight to energy recovery	30.07 kg
Weight to landfill	120.27 kg

ADDITIONAL ENVIRONMENTAL INFORMATION

The following product composition, packaging composition, pre- and post-consumer recycled content and the global warming potential results represent the Answer Fencel configuration in this study without scaling to the functional unit.

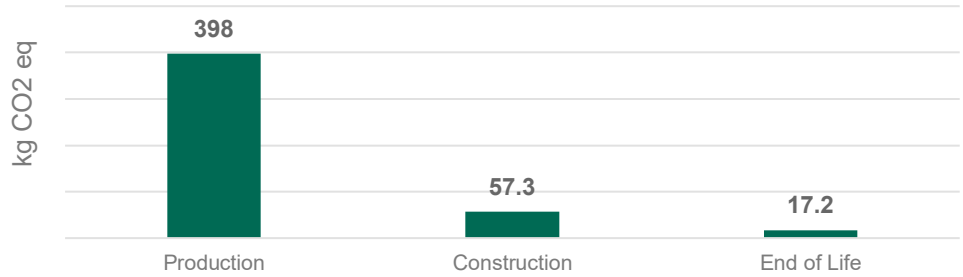
Product composition per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Steel	48.685	53.89%	24	11.68	22	10.7
Particle board	18.722	20.72%	0	0	50	9.36
Aluminum	14.934	16.53%	0	0	0	0
Electrical components	6.653	7.36%	0	0	0	0
ABS	0.559	0.62%	0	0	0	0
Fiberglass	0.551	0.61%	0	0	0	0
Other plastics	0.084	0.09%	0	0	0	0
Nylon (6/66)	0.069	0.08%	0	0	0	0
Polyester fabric	0.041	0.05%	0	0	0	0
PP	0.034	0.04%	0	0	0	0
PU foam	0.009	0.01%	0	0	0	0
Total	**90.341**	**100.00%**	**--**	**11.68**	**--**	**20.06**

Product packaging per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Cardboard	10.684	63.65%	40	4.27	0	0
Particle Board	1.963	11.69%	0	0	0	0
OSB	1.669	9.94%	0	0	0	0
Paper	1.102	6.57%	0	0	0	0
Foam	0.544	3.24%	0	0	0	0
EPE	0.250	1.49%	0	0	0	0
Steel	0.222	1.32%	0	0	0	0
PP	0.186	1.11%	0	0	0	0
LDPE	0.136	0.81%	0	0	0	0
Other plastics	0.029	0.17%	0	0	0	0
Total	**16.785**	**100.00%**	**--**	**4.27**	**--**	**0**

		Production	*Construction*		*Use*			*End of Life*			
IPCC AR6	***Unit***	**A1–A3**	**A4**	**A5**	**B1**	**B4**	***C1***	***C2***	***C3***	***C4***	***Totals***
(GWP) Global warming potential 100 years excludes biogenic carbon	kg CO2eq	3.98E+02	5.42E+01	3.14E+00	0	0	0	4.95E-01	3.24E+00	1.34E+01	4.73+02



473 kg total CO_2-eq footprint

Indoor air: Steelcase Systems 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. 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

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