Environmental Product Declaration

Gesture®

EMEA



About this product

Gesture® redefines the relationship between you and your desk chair. Voted best office chair, its 360-degree arms, contoured back and adjustments are designed for all the ways technology shapes your posture.

The reference product is task chair 442A30 and stool chair 442B30.

About this document

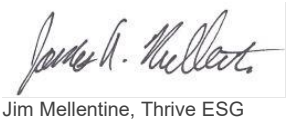
This declaration describes the Life Cycle Assessment of the Gesture® office chairs produced for EMEA markets by Steelcase Inc. in France. The assessment is performed according to the ISO standards 14040 (2006), 14044 (2006) and 14025 (2006), EN 15804+A2 and BIFMA PCR for Seating: UNCPC 3811 V4 (2025) to generate an EPD for business-to-business.

Date of Issue: November 13, 2026
Date of Expiration: November 13, 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.

ASSESSMENT OVERVIEW

EPD commissioner	Steelcase® Inc
Corporate Address	901 44th Street SE Grand Rapids, Michigan 49508-7594 United States
Product group	Seating
Product name	Gesture®
Product intended use	Office chair
Product reference service life	10 years
Reference standards	ISO 14025, ISO 14040, ISO 14044, ISO 21930, EN 15804+A2
EPD scope	Cradle-to-gate with options A1-A3, A4-A5, B1, B4, C1-C4, and optionally D
EPD number	EPD11366
Date of issuance	November 13, 2026
Date of expiration	November 13, 2031
EPD type	Product specific
EPD Product Coverage	Gesture® task chair and stool chair for the EMEA market
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	EMEA
LCA software and database version	GaBi 10.6.2.9; GaBi database, 2022.2
LCIA methodology and version number	TRACI 2.2, CML2001, IPCC AR6, ISO 21930, EN 15804+A2 (EF 3.1)
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) and EN 15804+A2 (EF 3.1)
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), EN 15804+A2 (2021), 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, EN 15804+A2, 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.

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. The task and stool chairs represent Option B: Swivel/task chair (single occupant).



Product scope

One Gesture task chair (product number 442A30) with a plastic base, advanced synchro-tilt mechanisms, shell back, and hard casters.

One Gesture stool (product number 442B30) with an aluminum base, advanced synchro-tilt mechanisms, shell back, hard casters, and a headrest. This office stool configuration is determined to be representative of all configurations produced in EMEA and is considered to have the highest impacts of all configurations produced in this region, making this a conservative estimate.

Manufacturing location	Product SKUs	Applicable markets and regions
Sarrebourg, France	442A30, 442B30	EMEA

Assessment goal and scope

The potential environmental impacts of Gesture 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 *V4 2025* and the reporting format of EVS-EN 15804:2012+A2:20*21*. 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. Additionally reported on by EN 15804+A2 life cycle modules.

		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 (EN 15804 Results only)	**D.** Reuse/recovery	✓

RESULTS

The product composition, packaging composition, recycled content, recyclability visuals, and life cycle impacts below relate specifically to one task chair 442A30 to seat one individual for a reference service life of 10 years.

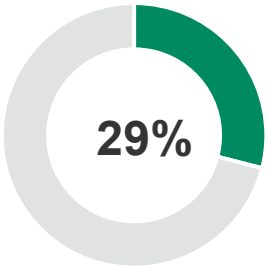
Product composition per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Steel	12.983	50.435%	24.17	3.138	22	2.856
PA/PA66 w and w/ filler	5.615	21.813%	0	0	0	0
PP	3.789	14.719%	20.06	0.76	0	0
Aluminum	1.014	3.939%	26	0.264	30	0.304
PU foam	0.816	3.170%	0	0	0	0
Polyoxymethylene (POM)	0.573	2.226%	20.07	0.115	0	0
Polyurethane (TPU)	0.273	1.061%	0	0	0	0
Rubber	0.200	0.777%	0	0	0	0
Polyester fabric	0.181	0.703%	0	0	0	0
Other	0.126	0.489%	0	0	0	0
PE	0.080	0.311%	0	0	0	0
PBT	0.055	0.214%	0	0	0	0
ABS	0.037	0.144%	0	0	0	0
Total	**25.742**	**100%**	**17%**	**4.277**	**12.3%**	**3.160**

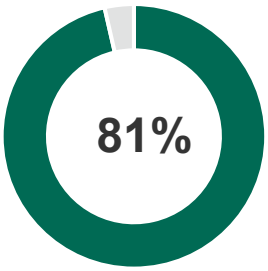
Product packaging composition per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Cardboard	3.941	97.237%	50	1.971	0	0
PP	0.104	2.566%	0	0	0	0
PE	0.008	0.197%	0	0	0	0
Total	**4.053**	**100%**	**48.63%**	**1.971**	**0%**	**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 pre-consumer or post-consumer based on market availability.

**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

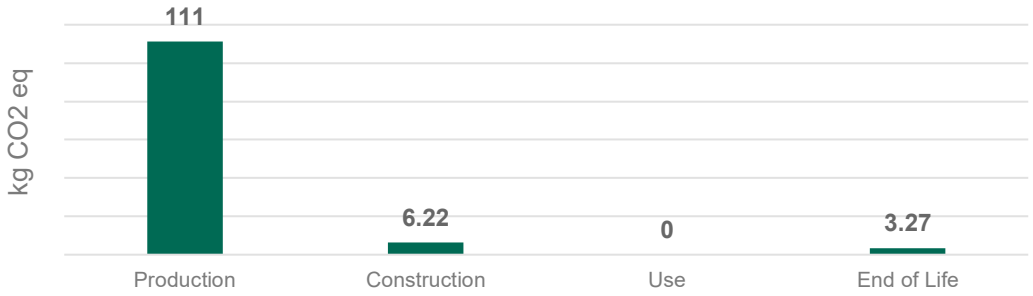
Life cycle impact by category and stage

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 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

		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 CO_2 eq	1.11E+02	5.19E+00	1.03E+00	0	0	0	1.39E-01	2.71E+00	4.13E-01	1.21E+02
(GWP) Global warming potential 100 years includes biogenic carbon	kg CO_2 eq	1.03E+02	5.21E+00	1.69E+00	0	0	0	1.39E-01	2.71E+00	4.16E-01	1.13E+02
(AP) Acidification potential	kg SO_2 eq	3.56E-01	2.83E-02	5.62E-04	0	0	0	8.42E-04	7.00E-04	2.19E-03	3.89E-01
(POCP) Photochemical ozone creation (Smog)	kg O_3 eq	5.40E+00	6.52E-01	1.42E-02	0	0	0	2.23E-02	1.83E-02	3.77E-02	6.15E+00
(EP) Eutrophication - freshwater	kg P eq	3.57E-04	3.36E-06	5.22E-06	0	0	0	7.33E-08	1.38E-07	7.00E-05	4.36E-04
(EP) Eutrophication - marine	kg N eq	1.74E-01	2.64E-02	3.92E-04	0	0	0	7.26E-04	5.46E-04	1.04E-03	2.03E-01
(ODP) Ozone depletion	kg CFC 11-eq	8.52E-08	1.80E-12	4.90E-13	0	0	0	5.92E-14	-6.98E-12	9.87E-10	8.62E-08
Carbon emissions and removals											
(BCRP) Biogenic carbon removal from product	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
(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	0.00E+00	0.00E+00
(BCRK) Biogenic carbon removal from packaging	kg CO2eq	6.21E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	6.21E+00
(BCEK) Biogenic carbon emission from packaging	kg CO2eq	0.00E+00	0.00E+00	6.21E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	6.21E+00
(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	8.36E-05	1.38E-08	3.21E-10	0	0	0	3.53E-10	2.15E-09	1.60E-09	8.36E-05
(NHWD) Non-hazardous waste disposed	kg	6.77E+00	7.72E-03	8.27E-01	0	0	0	1.86E-04	1.80E-01	1.68E+01	2.46E+01
(HLRW) High-level radioactive waste, conditioned, to final repository	kg	4.05E-05	2.39E-07	1.46E-08	0	0	0	6.04E-09	1.27E-07	8.20E-08	4.09E-05
(ILLRW) Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	4.79E-02	2.00E-04	1.60E-05	0	0	0	5.07E-06	1.65E-04	7.70E-05	4.83E-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	2.32E+00	0.00E+00	2.70E+00	0	0	0	0.00E+00	5.34E+00	0.00E+00	1.04E+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	4.67E-01	0.00E+00	1.00E+00	0	0	0	0.00E+00	8.11E+00	4.67E-02	9.53E+00
(EET) Recovered thermal energy exported from the product system	MJ	6.35E-01	0.00E+00	1.07E+00	0	0	0	0.00E+00	1.38E+01	1.82E-01	1.54E+01
Resource use indicators											
(RPRe) Renewable primary resources used as energy carrier	MJ	2.02E+02	2.64E+00	1.68E-01	0	0	0	5.87E-02	9.28E-01	1.13E+00	2.07E+02
(RPRm) Renewable primary resources with energy content used as material	MJ	5.52E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	5.52E+01
(NRPRe) Non-renewable primary resources used as energy carrier	MJ	1.16E+03	6.59E+01	1.45E+00	0	0	0	1.73E+00	2.55E+00	6.55E+00	1.23E+03
(NRPRm) Non-renewable primary resources with energy content used as material	MJ	3.51E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	3.51E+02
(SM) Secondary materials	kg	1.16E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	1.16E+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) Use of net freshwater resources including water from electricity generation	m^3	6.48E-01	2.04E-03	1.25E-03	0	0	0	4.73E-05	9.89E-03	2.25E-03	6.63E-01
Primary energy demand (renewable-nonrenewable energy and materials)	MJ	1.76E+03	6.85E+01	1.62E+00	0	0	0	1.79E+00	3.48E+00	7.68E+00	1.85E+03
(ADP) Abiotic depletion potential fossil	MJ	1.73E+03	6.53E+01	6.53E+01	0	0	0	1.72E+00	2.08E+00	6.33E+00	1.87E+03

Global warming potential summary



121 kg total CO_2-eq footprint

Life cycle resource consumption & waste summary

Additionally, results have been calculated using LCIA methodologies for core environmental impact categories specified in EN 15804+A2 (EF 3.1), as well as LCI indicators required by EN15804+A2 (EF 3.1). The results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks.

	Unit	A1 - A3	A4	A5	B1	B4	C1	C2	C3	C4	Benefits, Loads Beyond the System Boundary
Environmental impact indicators											
Climate change, total	kg CO2 eq	1.13E+02	5.22E+00	1.69E+00	0	0	0	1.39E-01	2.71E+00	4.16E-01	-5.74E+00
Climate change, fossil	kg CO2 eq	1.11E+02	5.19E+00	1.40E-01	0	0	0	1.39E-01	2.71E+00	4.12E-01	-1.08E+01
Climate change, biogenic	kg CO2 eq	1.94E+00	2.58E-02	1.55E+00	0	0	0	7.11E-04	1.84E-03	3.52E-03	5.08E+00
Climate change, land use and land use change	kg CO2 eq	5.13E-02	1.53E-03	6.26E-05	0	0	0	3.36E-05	4.80E-05	5.49E-04	-5.88E-03
Ozone depletion	kg CFC-11 eq	8.35E-08	1.48E-12	3.97E-13	0	0	0	4.77E-14	4.97E-12	6.95E-10	-6.36E-11
Acidification	Mole of H+ eq	4.19E-01	3.04E-02	6.19E-04	0	0	0	9.17E-04	7.37E-04	2.55E-03	-3.78E-02
Eutrophication, freshwater	kg P eq.	7.51E-04	7.45E-06	9.23E-06	0	0	0	1.63E-07	3.06E-07	1.30E-04	-4.01E-04
Eutrophication, marine	kg N eq	1.07E-01	1.52E-02	3.21E-04	0	0	0	4.17E-04	3.03E-04	6.09E-04	-7.99E-03
Eutrophication, terrestrial	Mole of N eq	1.11E+00	1.67E-01	2.53E-03	0	0	0	4.58E-03	3.99E-03	6.68E-03	-7.68E-02
Photochemical ozone formation, human health	kg NMVOC eq	2.89E-01	3.03E-02	1.03E-03	0	0	0	9.75E-04	7.92E-04	1.87E-03	-2.13E-02
Resource use, mineral and metals**	kg Sb eq	1.88E-04	1.05E-06	9.01E-09	0	0	0	2.65E-08	3.42E-08	8.76E-08	-3.23E-05
Resource use, fossils**	MJ	1.86E+03	6.59E+01	1.45E+00	0	0	0	1.73E+00	2.55E+00	6.55E+00	-1.54E+02
Water use**	m3 world equiv	2.00E+01	5.58E-02	5.18E-02	0	0	0	1.29E-03	4.54E-01	8.50E-02	-3.13E+00
Resource use											
Use of renewable primary energy (PERE)	MJ	2.57E+02	2.64E+00	1.68E-01	0	0	0	5.87E-02	9.28E-01	1.13E+00	-8.52E+01
Primary energy resources used as raw materials (PERM)	MJ	5.52E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources (PERT)	MJ	3.13E+02	2.64E+00	1.68E-01	0	0	0	5.87E-02	9.28E-01	1.13E+00	-8.52E+01
Use of non-renewable primary energy (PENRE)	MJ	1.51E+03	6.59E+01	1.45E+00	0	0	0	1.73E+00	2.55E+00	6.55E+00	-1.54E+02
Non-renewable primary energy resources used as raw materials (PENRM)	MJ	3.51E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (PENRT)	MJ	1.86E+03	6.59E+01	1.45E+00	0	0	0	1.73E+00	2.55E+00	6.55E+00	-1.54E+02
Input of secondary material (SM)	kg	1.16E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels (RSF)	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
Use of nonrenewable secondary fuels (NRSF)	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
Use of net fresh water (FW)	M3	6.48E-01	2.04E-03	1.25E-03	0	0	0	4.73E-05	9.89E-03	2.25E-03	-8.73E-02
Recovered energy (RE)	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
Output flows and waste categories											
Hazardous waste disposed (HWD)	kg	8.36E-05	1.38E-08	3.21E-10	0	0	0	3.53E-10	2.15E-09	1.60E-09	1.25E-08
Non-hazardous waste disposed (NHWD)	kg	6.77E+00	7.72E-03	8.27E-01	0	0	0	1.86E-04	1.80E-01	1.68E+01	-2.04E-01
Radioactive waste disposed (RWD)	kg	4.79E-02	2.01E-04	1.60E-05	0	0	0	5.07E-06	1.65E-04	7.70E-05	-3.75E-03
Components for re-use (CRU)	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
Materials for recycling (MFR)	kg	2.32E+00	0.00E+00	2.70E+00	0	0	0	0.00E+00	5.34E+00	0.00E+00	0.00E+00
Material for energy recovery (MER)	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
Exported electrical energy (EEE)	MJ	4.67E-01	0.00E+00	1.00E+00	0	0	0	0.00E+00	8.11E+00	4.67E-02	0.00E+00
Exported thermal energy (EET)	MJ	6.35E-01	0.00E+00	1.07E+00	0	0	0	0.00E+00	1.38E+01	1.82E-01	0.00E+00
Biogenic carbon content											
Biogenic carbon removal in product (BCRP)	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
Biogenic carbon release in product (BCEP)	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
Biogenic carbon removal in packaging (BCRK)	kg	3.40E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon emission packaging (BCEK)	kg	0.00E+00	0.00E+00	3.40E+01	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional indicators											
Particulate matter emissions (PM)	Disease incidence	6.30E-06	2.71E-07	6.93E-09	0	0	0	1.72E-08	7.70E-09	2.82E-08	-5.15E-07
Ionizing human radiation (IRP)*	kBq U235 eq.	7.77E+00	1.68E-02	2.23E-03	0	0	0	4.24E-04	2.83E-02	8.59E-03	-3.64E-01
Eco-toxicity freshwater (ETP-fw)**	CTUe	8.98E+02	6.03E+01	1.16E+00	0	0	0	1.59E+00	4.24E-01	1.04E+01	-5.73E+01
Human toxicity - Cancer (HTP-c)**	CTUh	5.03E-07	9.84E-10	2.42E-11	0	0	0	2.54E-11	3.98E-11	1.45E-10	-6.20E-09
Human toxicity - noncancer (HTP-nc)**	CTUh	7.78E-07	2.71E-08	2.05E-09	0	0	0	6.41E-10	9.67E-10	3.46E-09	-2.56E-08
Land use related impacts / soil quality (SQP)**	n/a	4.37E+02	9.05E+00	1.96E-01	0	0	0	1.91E-01	3.41E-01	1.47E+00	-1.43E+02

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 (l/km)	0.42 diesel	130 heavy fuel oil
Distance	1275 km	396 km
Capacity utilization	67%	53%
Capacity utilization volume factor	=1	=1
Weight of product (kg)		25.742
Volume (m^3)		0.429

A5: Installation in the building

Parameter	Value per functional unit
Packaging waste produced	4.053 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 freshwater 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 attributes	Attributes described on page 3
Indoor environment	Typical office and home environment
Use conditions	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 (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	25.742 kg
Weight to recycling	5.463 kg
Weight to energy recovery	4.056 kg
Weight to landfill	16.223 kg
Distance to recycling	32.2 km
Distance to energy recovery	32.2 km
Distance to landfill	32.2 km

RESULTS

The product composition, packaging composition, recycled content, recyclability visuals, and life cycle impacts below relate specifically to one stool chair 442B30 to seat one individual for a reference service life of 10 years.

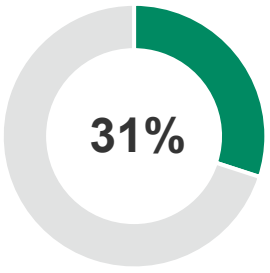
Product composition per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Steel	13.941	49.492%	25.26	3.521	22	3.067
PA/PA66 w and w/ filler	3.972	14.101%	0	0	0	0
PP	3.788	13.448%	20.27	0.768	0	0
Aluminum	4.088	14.513%	12	0.491	15	0.613
PU foam	0.816	2.897%	0	0	0	0
Polyoxymethylene (POM)	0.637	2.261%	18.05	0.115	0	0
Polyurethane (TPU)	0.273	0.970%	0	0	0	0
Rubber	0.207	0.735%	0	0	0	0
Polyester fabric	0.181	0.643%	0	0	0	0
Other	0.087	0.309%	0	0	0	0
PE	0.004	0.014%	0	0	0	0
PBT	0.137	0.486%	0	0	0	0
ABS	0.037	0.131%	0	0	0	0
Total	**28.168**	**100%**	**17.4%**	**4.895**	**13.06%**	**3.680**

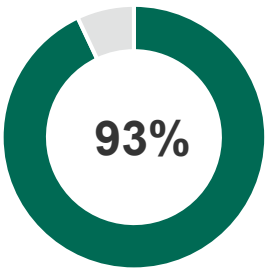
Product packaging composition per functional unit

			Post-consumer		Pre-consumer	
Material	**Weight (kg)**	**Weight (%)**	**%**	**Weight (kg)**	**%**	**Weight (kg)**
Cardboard	3.941	97.237%	50	1.971	0	0
PE	0.088	2.171%	0	0	0	0
PP	0.024	0.592%	0	0	0	0
Total	**4.053**	**100%**	**48.63%**	**1.971**	**0%**	**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 pre-consumer or post-consumer based on market availability.

**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

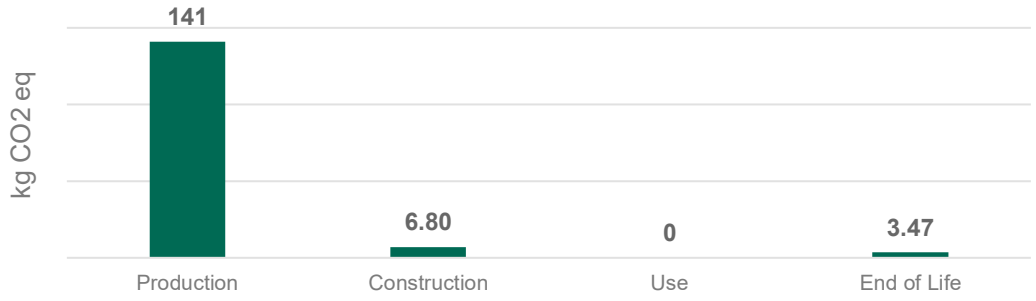
Life cycle impact by category and stage stool chair

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

		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 CO_2 eq	1.41E+02	5.80E+00	1.00E+00	0	0	0	1.62E-01	2.85E+00	4.53E-01	1.51E+02
(GWP) Global warming potential 100 years includes biogenic carbon	kg CO_2 eq	1.33E+02	5.83E+00	1.66E+00	0	0	0	1.62E-01	2.85E+00	4.54E-01	1.44E+02
(AP) Acidification potential	kg SO_2 eq	5.00E-01	3.16E-02	5.45E-04	0	0	0	9.77E-04	8.15E-04	2.41E-03	5.36E-01
(POCP) Photochemical ozone creation (Smog)	kg O_3 eq	7.43E+00	7.28E-01	1.39E-02	0	0	0	2.59E-02	2.18E-02	4.15E-02	8.26E+00
(EP) Eutrophication - freshwater	kg P eq	3.60E-04	3.75E-06	4.80E-06	0	0	0	8.58E-08	5.51E-09	6.33E-05	4.32E-04
(EP) Eutrophication - marine	kg N eq	2.37E-01	2.96E-02	3.84E-04	0	0	0	8.42E-04	6.48E-04	1.15E-03	2.70E-01
(ODP) Ozone depletion	kg CFC 11-eq	8.44E-08	2.01E-12	4.67E-13	0	0	0	6.69E-14	1.02E-11	7.02E-10	8.52E-08
Carbon emissions and removals											
(BCRP) Biogenic carbon removal from product	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
(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	0.00E+00	0.00E+00
(BCRK) Biogenic carbon removal from packaging	kg CO2eq	6.21E+00	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	6.21E+00
(BCEK) Biogenic carbon emission from packaging	kg CO2eq	0.00E+00	0.00E+00	6.21E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	6.21E+00
(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	8.35E-05	1.54E-08	3.10E-10	0	0	0	4.13E-10	3.00E-09	1.78E-09	8.35E-05
(NHWD) Non-hazardous waste disposed	kg	1.66E+01	8.62E-03	7.80E-01	0	0	0	2.18E-04	2.47E-01	1.91E+01	3.67E+01
(HLRW) High-level radioactive waste, conditioned, to final repository	kg	5.41E-05	2.67E-07	1.41E-08	0	0	0	7.06E-09	1.76E-07	8.38E-08	5.47E-05
(ILLRW) Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	5.99E-02	2.24E-04	1.55E-05	0	0	0	5.93E-06	2.31E-04	8.15E-05	6.05E-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	2.39E+00	0.00E+00	2.69E+00	0	0	0	0.00E+00	6.64E+00	0.00E+00	1.17E+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	4.08E-01	0.00E+00	9.60E-01	0	0	0	0.00E+00	7.43E+00	1.35E-02	8.82E+00
(EET) Recovered thermal energy exported from the product system	MJ	4.89E-01	0.00E+00	9.92E-01	0	0	0	0.00E+00	1.26E+01	5.30E-02	1.42E+01
Resource use indicators											
(RPRe) Renewable primary resources used as energy carrier	MJ	4.24E+02	2.95E+00	1.62E-01	0	0	0	6.87E-02	1.29E+00	1.26E+00	4.30E+02
(RPRm) Renewable primary resources with energy content used as material	MJ	5.52E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	5.52E+01
(NRPRe) Non-renewable primary resources used as energy carrier	MJ	1.55E+03	7.36E+01	1.41E+00	0	0	0	2.02E+00	3.49E+00	7.23E+00	1.64E+03
(NRPRm) Non-renewable primary resources with energy content used as material	MJ	3.13E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	3.13E+02
(SM) Secondary materials	kg	1.40E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	1.40E+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) Use of net freshwater resources including water from electricity generation	m^3	8.36E-01	2.28E-03	1.19E-03	0	0	0	5.53E-05	1.19E-02	2.14E-03	8.53E-01
Primary energy demand (renewable-nonrenewable energy and materials)	MJ	2.34E+03	7.65E+01	1.57E+00	0	0	0	2.09E+00	4.78E+00	8.48E+00	2.44E+03
(ADP) Abiotic depletion potential fossil	MJ	2.00E+03	7.30E+01	1.37E+00	0	0	0	2.00E+00	2.84E+00	7.00E+00	2.09E+03

Global warming potential summary



151 kg total CO_2-eq footprint

Life cycle resource consumption & waste summary

Additionally, results have been calculated using LCIA methodologies for core environmental impact categories specified in EN 15804+A2 (EF 3.1), as well as LCI indicators required by EN15804+A2 (EF 3.1). The results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks.

	Unit	A1 - A3	A4	A5	B1	B4	C1	C2	C3	C4	Benefits, Loads Beyond the System Boundary
Environmental impact indicators											
Climate change, total	kg CO2 eq	1.33E+02	5.83E+00	1.66E+00	0	0	0	1.62E-01	2.85E+00	4.55E-01	-1.05E+01
Climate change, fossil	kg CO2 eq	1.40E+02	5.80E+00	1.15E-01	0	0	0	1.62E-01	2.86E+00	4.52E-01	-1.55E+01
Climate change, biogenic	kg CO2 eq	1.94E+00	2.89E-02	1.55E+00	0	0	0	8.05E-04	2.69E-03	2.53E-03	5.03E+00
Climate change, land use and land use change	kg CO2 eq	1.09E-01	1.71E-03	6.00E-05	0	0	0	3.94E-05	8.02E-05	6.15E-04	-1.54E-02
Ozone depletion	kg CFC-11 eq	8.28E-08	1.65E-12	3.78E-13	0	0	0	5.40E-14	7.29E-12	4.95E-10	-1.37E-10
Acidification	Mole of H+ eq	5.88E-01	3.40E-02	6.03E-04	0	0	0	1.06E-03	8.55E-04	2.82E-03	-5.58E-02
Eutrophication, freshwater	kg P eq.	7.58E-04	8.33E-06	8.47E-06	0	0	0	1.90E-07	4.46E-07	1.18E-04	-4.02E-04
Eutrophication, marine	kg N eq	1.43E-01	1.70E-02	3.16E-04	0	0	0	4.84E-04	3.63E-04	6.72E-04	-1.20E-02
Eutrophication, terrestrial	Mole of N eq	1.52E+00	1.87E-01	2.47E-03	0	0	0	5.31E-03	4.67E-03	7.37E-03	-1.20E-01
Photochemical ozone formation, human health	kg NMVOC eq	3.81E-01	3.39E-02	1.01E-03	0	0	0	1.13E-03	9.44E-04	2.07E-03	-3.25E-02
Resource use, mineral and metals**	kg Sb eq	4.43E-04	1.17E-06	8.81E-09	0	0	0	3.10E-08	5.06E-08	4.93E-08	-3.94E-05
Resource use, fossils**	MJ	2.18E+03	7.36E+01	1.41E+00	0	0	0	2.02E+00	3.49E+00	7.23E+00	-2.07E+02
Water use**	m3 world equiv	2.29E+01	6.23E-02	4.94E-02	0	0	0	1.51E-03	5.55E-01	7.91E-02	-3.85E+00
Resource use											
Use of renewable primary energy (PERE)	MJ	4.79E+02	2.95E+00	1.62E-01	0	0	0	6.87E-02	1.29E+00	1.26E+00	-1.16E+02
Primary energy resources used as raw materials (PERM)	MJ	5.52E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources (PERT)	MJ	5.35E+02	2.95E+00	1.62E-01	0	0	0	6.87E-02	1.29E+00	1.26E+00	-1.16E+02
Use of non-renewable primary energy (PENRE)	MJ	1.86E+03	7.36E+01	1.41E+00	0	0	0	2.02E+00	3.49E+00	7.23E+00	-2.07E+02
Non-renewable primary energy resources used as raw materials (PENRM)	MJ	3.13E+02	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (PENRT)	MJ	2.18E+03	7.36E+01	1.41E+00	0	0	0	2.02E+00	3.49E+00	7.23E+00	-2.07E+02
Input of secondary material (SM)	kg	1.40E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels (RSF)	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
Use of nonrenewable secondary fuels (NRSF)	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
Use of net fresh water (FW)	M3	8.36E-01	2.28E-03	1.19E-03	0	0	0	5.53E-05	1.19E-02	2.14E-03	-1.13E-01
Recovered energy (RE)	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
Output flows and waste categories											
Hazardous waste disposed (HWD)	kg	8.35E-05	1.54E-08	3.10E-10	0	0	0	4.13E-10	3.00E-09	1.78E-09	-3.83E-08
Non-hazardous waste disposed (NHWD)	kg	1.66E+01	8.62E-03	7.80E-01	0	0	0	2.18E-04	2.47E-01	1.91E+01	-1.35E+00
Radioactive waste disposed (RWD)	kg	6.00E-02	2.24E-04	1.55E-05	0	0	0	5.93E-06	2.31E-04	8.16E-05	-5.84E-03
Components for re-use (CRU)	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
Materials for recycling (MFR)	kg	2.39E+00	0.00E+00	2.69E+00	0	0	0	0.00E+00	6.64E+00	0.00E+00	0.00E+00
Material for energy recovery (MER)	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
Exported electrical energy (EEE)	MJ	4.08E-01	0.00E+00	9.60E-01	0	0	0	0.00E+00	7.43E+00	3.32E-02	0.00E+00
Exported thermal energy (EET)	MJ	4.89E-01	0.00E+00	9.92E-01	0	0	0	0.00E+00	1.26E+01	1.29E-01	0.00E+00
Biogenic carbon content											
Biogenic carbon removal in product (BCRP)	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
Biogenic carbon release in product (BCEP)	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
Biogenic carbon removal in packaging (BCRK)	kg	3.40E+01	0.00E+00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon emission packaging (BCEK)	kg	0.00E+00	0.00E+00	3.40E+01	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Optional indicators											
Particulate matter emissions (PM)	Disease incidence	8.96E-06	3.04E-07	6.75E-09	0	0	0	2.00E-08	1.01E-08	3.14E-08	-8.04E-07
Ionizing human radiation (IRP)*	kBq U235 eq.	8.85E+00	1.88E-02	2.16E-03	0	0	0	4.96E-04	3.98E-02	9.56E-03	-5.36E-01
Eco-toxicity freshwater (ETP-fw)**	CTUe	1.09E+03	6.74E+01	1.10E+00	0	0	0	1.85E+00	5.29E-01	1.03E+01	-7.33E+01
Human toxicity - Cancer (HTP-c)**	CTUh	4.80E-07	1.10E-09	2.30E-11	0	0	0	2.96E-11	4.98E-11	1.47E-10	-8.51E-09
Human toxicity - noncancer (HTP-nc)**	CTUh	1.05E-06	3.03E-08	2.01E-09	0	0	0	7.48E-10	1.24E-09	3.62E-09	-5.04E-08
Land use related impacts / soil quality (SQP)**	n/a	8.46E+02	1.01E+01	1.89E-01	0	0	0	2.23E-01	4.48E-01	1.63E+00	-1.51E+02

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 (l/km)	0.42 diesel	130 heavy fuel oil
Distance	1251 km	457 km
Capacity utilization	67%	53%
Capacity utilization volume factor	=1	=1
Weight of product (kg)		28.168
Volume (m^3)		0.441

A5: Installation in the building

Parameter	Value per functional unit
Packaging waste produced	4.053 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

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 (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	28.168 kg
Weight to recycling	6.166 kg
Weight to energy recovery	4.400 kg
Weight to landfill	17.602 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™ 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.

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