

# Environmental Product Declaration



In accordance with ISO 14025 for:

## **Lares desk (1800x800 mm) with wooden legs**

from

# Steelcase

Programme:

The International EPD® System, [www.environdec.com](http://www.environdec.com)

Programme operator:

EPD International AB

EPD registration number:

S-P-07397

Publication date:

2022-12-28

Valid until:

2027-12-28



## Programme information

|                   |                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Programme:</b> | <p>The International EPD® System</p> <p>EPD International AB<br/>Box 210 60<br/>SE-100 31 Stockholm<br/>Sweden</p> <p><a href="http://www.environdec.com">www.environdec.com</a><br/><a href="mailto:info@environdec.com">info@environdec.com</a></p> |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Product category rules (PCR): *PCR 2012-19, Furniture, except seats and mattresses.*  
*Validity until 17-06-2023. Version 2.01, UN CPC 3812 /3813 /3814*

PCR review was conducted by: *Technical committee of the International EPD Gorka Benito Alonso.*  
*The review panel may be contacted via [info@environdec.com](mailto:info@environdec.com)*

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

☒ EPD process certification ☐ EPD verification

Third party verifier: Tecnalía R&I Certificación is an approved certification body accountable for third-party verification

*In case of accredited certification bodies:*

Accredited by: ENAC, accreditation no. 125/C-PR283

*In case of recognised individual verifiers:*

Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programmes may not be comparable.

## Company information

**Owner of the EPD:**

AF Steelcase S.A.  
Calle Antonio Lopez, 243  
28041 - Madrid, Spain  
Phone: +34912124700  
Email: [afinfo@steelcase.com](mailto:afinfo@steelcase.com)

**Description of the organisation:**

At its heart, sustainability at Steelcase is about people. It's about creating and supporting the economic, environmental and social conditions that allow people and communities to reach their full potential.

Research and insights direct our path. It's not only about creating goods, it's about creating good. It's not only about creating value, it's about living our values. It's not just about reducing our footprint, it's about expanding our reach. It's about creating lasting and meaningful change to enable the long-term wellbeing of current and future generations.

Innovative products and solutions result. In the development of our products, we work to consider each stage of the life cycle: from materials extraction, production, transport, use and reuse, until the end of its life. We demonstrate performance through third-party verified certifications, such as ISO 9001, ISO 14001, ISO 14006, PEFC, FSC® (FSC-C003932), and voluntary product declarations.

Steelcase's sustainability promises, actions, and results are communicated in an annual Corporate Sustainability Report.

## Product information

**Product name:** Lares desk with wooden legs  
(1800x800 mm)

**Product identification:** LARWDPL

**Production site:** Steelcase Madrid (Madrid, Spain).

**Product description:** Lares creates the right balance of distinctive design and performance in a single desking range, providing any workspace with suitable solutions for a variety of tasks and styles.

Research shows that people expect more autonomy and flexibility when they work in the office – they want to work more effectively alone and together. At the same time, creating

welcoming and comfortable environments allows workers to be more productive and provides a higher level of wellbeing.

Height: 740 mm  
Depth: 800mm  
Width: 1800mm

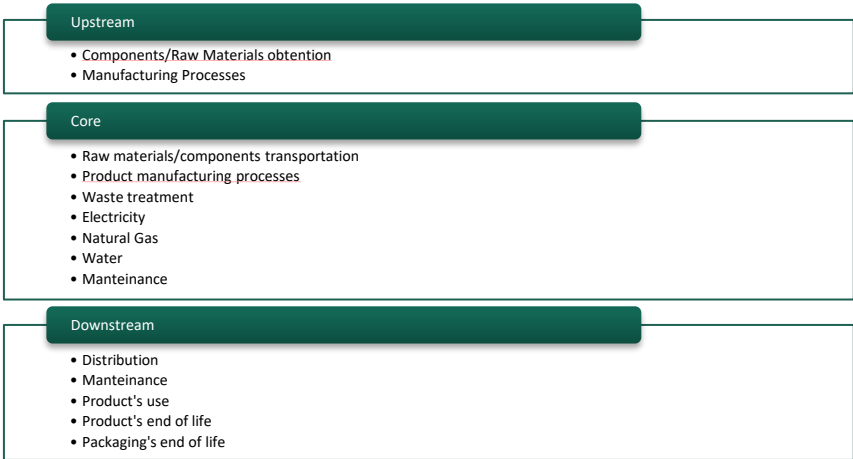
Rounded corners  
Wooden legs

**UN CPC code:** 38121 - Other metal furniture, of a kind used in offices

**Geographical scope:** EMEA (Europe, Middle East and Africa)

## LCA information

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Functional Unit</b>                    | Consists in one Lares desk with wooden legs (1800x800 mm) in use for 8 hours a day, 5 days a week, for 15 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source(s) of data</b>                  | All information about manufacturing processes has been supplied directly by internal data of Steelcase Madrid. The Information about raw materials/components and distances has been supplied directly by our suppliers. All raw materials and components are transported by road.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reference year for data</b>            | 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>LCA Software/<br/>database(s) used</b> | SimaPro v9.1.0.11 multiuser / Ecoinvent 3.6 Database                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Exclusions</b>                         | No exclusions were made                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Assignment rules</b>                   | In this study was considered necessary to perform a physical assignment (in fuction of produced units) for water, oil, natural gas, water, and electricity consumptions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>System boundaries</b>                  | System boundaries include raw materials and components, production (includes processes and facilities maintenance), transport, packaging, distribution, use and end of life, both for the product and for its packaging.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>System Scope</b>                       | <p>System's scope includes the whole life cycle of the product, from obtained raw materials to manufacturing, use and end of life. System is divided in 3 stages:</p> <ul style="list-style-type: none"> <li>• <b>UPSTREAM:</b> Includes components, raw material obtention and their associated manufacturing processes.</li> <li>• <b>CORE:</b> Includes transportation of raw materials and components from our suppliers to Steelcase Madrid, product manufacturing processes and waste treatment.</li> <li>• <b>DOWNSTREAM:</b> Includes clients shipping, products maintenance, product use and end of life, both for the product and for packaging.</li> </ul> |



This document has been created contemplating environmental impacts of raw materials and components, their transport and multiple transformation and manufacturing processes, treatment of generated wastes as well as the final product distribution to the customer and the end of life of the product and its packaging.

## Content declaration

### Product

| Materials         | Weight (kg)    | % Of total weight | Recycled content |
|-------------------|----------------|-------------------|------------------|
| ABS               | 0,7082         | 1,69%             | 18,71%           |
| STEEL             | 12,2625        | 29,33%            | 29,70%           |
| HOT-MELT ADHESIVE | 0,0226         | 0,05%             | 0,00%            |
| LAMINATED BOARD   | 22,9899        | 54,98%            | 40,00%           |
| SOLID WOOD        | 3,1200         | 7,46%             | 0,00%            |
| PA6               | 0,0563         | 0,13%             | 6,43%            |
| PA6 GB30          | 0,0287         | 0,07%             | 3,00%            |
| PA6 GF30          | 0,0018         | 0,00%             | 3,00%            |
| PA66              | 0,0220         | 0,05%             | 10,00%           |
| PE                | 0,0220         | 0,05%             | 10,00%           |
| PAINT             | 0,2520         | 0,60%             | 0,00%            |
| PP                | 0,0400         | 0,10%             | 3,00%            |
| PP GF30           | 0,0119         | 0,03%             | 3,00%            |
| ZAMAK             | 0,1760         | 0,42%             | 20,00%           |
| <b>TOTAL</b>      | <b>39,7139</b> | <b>94,98%</b>     | <b>33,01%</b>    |

### Packaging

| Materials    | Weight (kg)   | % Of total weight | Recycled content |
|--------------|---------------|-------------------|------------------|
| LDPE         | 2,0757        | 4,96%             | 31,12%           |
| PP           | 0,0218        | 0,05%             | 0,00%            |
| <b>TOTAL</b> | <b>2,0975</b> | <b>5,02%</b>      | <b>30,80%</b>    |

*Steelcase strives to be more environmentally friendly, therefore neither the product nor the packaging contains any substance on the REACH candidate list, nor any mixture classified in Regulation (EC) 1272/2008. In addition, within our organization a scrupulous protocol is carried out to check that all substances and materials comply with the standards of our organization.*

### Recycled material

| Item                            | Recycled content | Pre-consumer  | Post-consumer |
|---------------------------------|------------------|---------------|---------------|
| Packaging                       | 30,80%           | 19,78%        | 11,02%        |
| Product                         | 33,01%           | 29,90%        | 3,11%         |
| <b>TOTAL (Packaged product)</b> | <b>32,92%</b>    | <b>29,50%</b> | <b>3,42%</b>  |

## Environmental performance

### Potential environmental impact

| PARAMETER                                        |                                  | UNIT                        | UPSTREAM        | CORE            | DOWNSTREAM      | TOTAL           |
|--------------------------------------------------|----------------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| Global warming potential (GWP)                   | Fossil                           | KgCO <sub>2</sub> eq.       | 9,61E+01        | 2,39E+01        | 1,21E+01        | 1,32E+02        |
|                                                  | Biogenic                         | KgCO <sub>2</sub> eq.       | 1,45E+00        | 1,40E-02        | 7,75E-04        | 1,47E+00        |
|                                                  | Land use and land transformation | KgCO <sub>2</sub> eq.       | 8,89E-02        | 8,46E-03        | 1,52E-04        | 9,75E-02        |
|                                                  | <b>TOTAL</b>                     | <b>KgCO<sub>2</sub> eq.</b> | <b>9,76E+01</b> | <b>2,39E+01</b> | <b>1,21E+01</b> | <b>1,34E+02</b> |
| Acidification potential (AP)                     |                                  | KgSO <sub>2</sub> eq.       | 4,43E-01        | 1,75E-01        | 5,32E-02        | 6,72E-01        |
| Eutrophication potential (EP)                    |                                  | KgPO <sub>4</sub> -eq.      | 2,34E-01        | 1,60E-02        | 8,01E-03        | 2,58E-01        |
| Formation potential of tropospheric ozone (POCP) |                                  | kg NMVOC eq.                | 4,28E-01        | 4,73E-02        | 6,55E-02        | 5,41E-01        |
| Abiotic depletion potential - elements           |                                  | KgSb eq.                    | 1,45E-02        | 1,03E-05        | 9,14E-07        | 1,45E-02        |
| Abiotic depletion potential - fossil fuels       |                                  | MJ, net calorific value     | 1,25E+03        | 2,71E+02        | 1,70E+02        | 1,69E+03        |
| Water scarcity potential                         |                                  | m <sup>3</sup> eq.          | 3,56E+01        | 4,02E+00        | 2,07E+00        | 4,17E+01        |

### Use of resources

| PARAMETER                                |                       | UNIT                    | UPSTREAM        | CORE            | DOWNSTREAM      | TOTAL           |
|------------------------------------------|-----------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|
| Primary energy resources – Renewable     | Use as energy carrier | MJ, net calorific value | 4,02E+02        | 5,79E+01        | 3,25E-01        | 4,60E+02        |
|                                          | Used as raw materials | MJ, net calorific value | 5,25E+02        | 0,00E+00        | 0,00E+00        | 5,25E+02        |
|                                          | <b>TOTAL</b>          |                         | <b>9,27E+02</b> | <b>5,79E+01</b> | <b>3,25E-01</b> | <b>9,85E+02</b> |
| Primary energy resources – Non-renewable | Use as energy carrier | MJ, net calorific value | 9,00E+02        | 3,97E+02        | 1,70E+02        | 1,47E+03        |
|                                          | Used as raw materials | MJ, net calorific value | 5,25E+02        | 0,00E+00        | 0,00E+00        | 5,25E+02        |
|                                          | <b>TOTAL</b>          |                         | <b>1,42E+03</b> | <b>3,97E+02</b> | <b>1,70E+02</b> | <b>1,99E+03</b> |
| Secondary material                       |                       | kg                      | 1,74E+01        | NA              | NA              | 1,74E+01        |
| Renewable secondary fuels                |                       | MJ, net calorific value | NA              | NA              | NA              | 0,00E+00        |
| Non-renewable secondary fuels            |                       | MJ, net calorific value | NA              | NA              | NA              | 0,00E+00        |
| Net use of fresh water                   |                       | m <sup>3</sup>          | 0,00E+00        | 1,06E-02        | 1,00E-01        | 1,11E-01        |

## Waste production and output flows

### Waste production

| PARAMETER                    | UNIT | UPSTREAM | CORE     | DOWNSTREAM | TOTAL    |
|------------------------------|------|----------|----------|------------|----------|
| Hazardous waste disposed     | kg   | 6,00E-03 | 3,63E-04 | 4,85E-04   | 6,85E-03 |
| Non-hazardous waste disposed | kg   | 2,26E+01 | 3,66E-01 | 1,13E-02   | 2,30E+01 |
| Radioactive waste disposed   | kg   | 4,29E-03 | 2,11E-03 | 1,23E-03   | 7,63E-03 |

### Output flows

| PARAMETER                     | UNIT | UPSTREAM | CORE     | DOWNSTREAM | TOTAL    |
|-------------------------------|------|----------|----------|------------|----------|
| Components for reuse          | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00   | 0,00E+00 |
| Material for recycling        | kg   | 0,00E+00 | 1,12E+01 | 4,13E+01   | 5,25E+01 |
| Materials for energy recovery | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00   | 0,00E+00 |
| Exported energy, electricity  | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00   | 0,00E+00 |
| Exported energy, thermal      | MJ   | 0,00E+00 | 0,00E+00 | 0,00E+00   | 0,00E+00 |

### Other environmental indicators

| PARAMETER                          | UNIT                      | UPSTREAM | CORE     | DOWNSTREAM | TOTAL    |
|------------------------------------|---------------------------|----------|----------|------------|----------|
| Human toxicity, cancer impacts     | Cases                     | 3,16E-05 | 5,81E-07 | 2,19E-08   | 3,22E-05 |
| Human toxicity, non-cancer impacts | Cases                     | 3,54E-05 | 2,06E-06 | 7,39E-07   | 3,82E-05 |
| Fresh water ecotoxicity            | PAF m <sup>3</sup><br>day | 4,45E+06 | 4,54E+04 | 4,53E+03   | 4,50E+06 |
| Land use                           | Species.yr                | 1,26E-07 | 1,93E-08 | 4,34E-11   | 1,45E-07 |

## Additional information

### Recommendations for use

- In order to guarantee an adequate life cycle, it is necessary to clean the surface regularly, using a wet cloth.
- For daily cleaning it is recommended to use a soft duster.
- Wood components do not emit formaldehydes, in accordance with the E1 reduced emission standard (EN 13986).
- Lares Desks & Tables are designed to be easily updated and repaired and can be easily assembled and disassembled using hand tools.

### Transport

- Both the weight and the volume of the product and packaging have been reduced to a minimum, to minimize the energy consumed during transport.

### Composition

- This product does not contain hazardous materials (i.e., PVC, cadmium, mercury, hexavalent lead) or harmful additives (i.e., fire retardants).
- Solvent-free, water-soluble inks are used on paper and packaging.

### Production

- This product has been designed to achieve a minimum environmental impact.
- The adhesive used in the edgebanding does not contain any VOCs.
- The paint used does not contain any VOCs or heavy metals.

### Disposal

- Packaging materials are 100% recyclable.
- Lares desk with wooden legs (1800x800 mm) is 98,73 % recyclable, measured in terms of weight.
- All plastic parts weighing over 50g are marked in accordance with ISO 11469, in order to facilitate their recycling (packaging excluded).
- Once Lares desk with wooden legs (1800x800 mm) reaches its end of life, it has been designed to be separated by components and recycled.
- All materials have been considered in a recycling scenario at their end of life, except for paint, hot-melt adhesive and ABS edgeband.

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**Notes**

- Data shown in this declaration will be valid if there are no significant changes in the process analysed.
- Results obtained are not comparable for other product references or about other declarations, drawn up based on another certification system.
- The verifier and the program operator are not responsible for any claims about the product or the legality of the product.

## References

- General Programme Instructions of the International EPD® System. Version 3.01.
- PCR 2012-19, Furniture, except seats and mattresses. Version: 2.01(Product category classification: UN CPC 3812/3813/3814)
- ISO 14025:2006 Environmental labels and declarations.
- ISO 14040:2006/A1:2021 Environmental management — Life cycle assessment — Principles and framework
- ISO 14044:2006 /A1:2018 + A2:2021 Environmental management — Life cycle assessment — Requirements and guidelines
- ECOINVENT Ecoinvent Centre, [www.ECO-invent.org](http://www.ECO-invent.org)
- SIMAPRO SimaPro LCA Software, Pré Consultants, the Netherlands, [www.presustainability.com](http://www.presustainability.com). SimaPro v9.1.0.11 multiuser. Data Base Ecoinvent 3.6

