

Self-declared environmental claim on product carbon footprint

Manufacturer:

LD Seating Ltd.

Production site:

Drevarska 2461/19a, 680 01 Boskovice, Czech Republic

Product:

Chair Arcus

Product description:

Designed by German designer Martin Ballendat, the Arcus chair stands out with its elegant, feminine-inspired curves and exceptional comfort. A distinctive arc seamlessly integrates into the mesh backrest frame, serving both as a unique design element and a practical handle. The backrest features a classic S-shape profile, providing pronounced lumbar support and gentle shoulder reinforcement. Available in black and light grey, the Arcus offers options like an upholstered seat, mesh backrest, adjustable lumbar support, and headrest. Its innovative design earned the prestigious Red Dot Design Award in 2023 and German Design Award in 2024.

Based on the LCA study conducted, the following environmental claim is declared:

The carbon footprint of Arcus product

Carbon footprint	cradle-to-gate (kg CO ₂ eq.)	cradle-to-grave (kg CO ₂ eq.)
ISO 14067	40,9	54,0
EN 15804 + A2 (EF 3.1 methodology)	40,9	54,0

This self-declared environmental claim is developed in accordance to ISO 14021 and based on the life cycle-based evaluation of the product carbon footprint. The assessment was performed using the LCA method conducted in accordance with ISO 14040, ISO 14044 and ISO 14067. The product carbon footprint is determined using Environmental Footprint – EF 3.1. methodology and is expressed as EF 3.1 Climate change – total in kg of CO₂ eq. As a functional unit, the production of 1 piece of the product (Arcus) was chosen. The cradle-to-grave boundary covers the processing of input materials, all relevant transport down to the process unit, manufacture of the chair and handling of waste from production. Then follows transportation to the customer and EOL of the product. Use phase is not covered in this assessment as the material impacts are not expected. The cradle-to-gate assessment covers processing of input materials, all relevant transport down to the process unit, manufacture of the chair and handling of waste from production.

The assessment was performed by professional LCA for Experts software, Sphera. Site-specific product data was provided by LD Seating Ltd. All general process data-sets used in the model were chosen from the Sphera database. The evaluation was made by LCA Studio Ltd., Prague, Czech Republic. LCA Studio did not check the correctness of data provided by LD Seating.



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