# Product Carbon

**Summary Guide**

## Navigating Environmental Information

Landscape Forms utilizes several tools to study, report, and disclose environmental information about products and processes. If you need specific types of information, your Business Development Representative can help you navigate what's available on our website or request additional information if you don't see what you need. This guide covers environmental information related to the carbon footprint of products.

## Product Carbon Footprint: The Basics

The carbon footprint of a product is based on a Life Cycle Assessment (LCA), conducted according to ISO14040 and ISO 14044 standards. A carbon footprint is defined as the measure of the Global Warming Potential (GWP) of all the emissions associated with that product. Values are expressed as GWP in kilograms of carbon dioxide equivalent (kg $CO_2e$). Importantly, a carbon footprint value is not the amount of carbon physically contained in a product. Rather, it reflects the potential contribution to global warming over a 100-year time horizon, from all the combined greenhouse gases emitted during the making of a product (and potentially its installation, use and disposal).

All carbon footprint values found in Landscape Forms third party documentation represent totals for the full cradle-to-grave life cycle of our products, in accordance with international standards. Some site and building LCA tools utilize only the product stage (defined by EN 15804 as A1-A3 modules) as an input to project LCA calculations. A table of GWP totals for product stage is included for convenience in cases where those values can be extracted or inferred from third-party documentation; some products therefore have A1-A3 gaps due to data limitations.

## Our Environmental Product Declarations (EPDs) vs. Product Carbon Footprint

In 2022, Landscape Forms commissioned SCS Global Services, a leading LCA provider, to conduct a Life Cycle Inventory and Assessment covering 50% of the core product line by sales volume. This LCA served as the basis for twenty-two Verified Product Carbon Footprints and five Environmental Product Declarations. These studies reference the same background data and are therefore comparable.

There are three key differences between the Carbon Footprints and the EPDs:

- **The Carbon Footprints report only GWP**, while the EPDs report on more than a dozen impact categories per EN 15804+A2
- **The Carbon Footprints report results across Upstream, Core, and Downstream** stages, while EPDs report results across eight life cycle modules in accordance with EN 15804
- **The Carbon Footprints underwent independent assessment/verification for conformance to ISO 14067 with criteria referencing ISO 14044** by SCS Global Services, whereas the **EPDs underwent independent third-party verification in accordance with ISO 14025** by the Athena Sustainable Materials Institute

## Partner and Supplier EPDs

Our partners share our dedication to responsible production, and many are conducting key life cycle studies that provide vital baseline data to help industries improve over time. This guide summarizes available EPD data from our partners and will be updated as more robust environmental information becomes available.

Our partners in Spain, Escofet, completed their first comprehensive EPDs in 2025. The EPDs produced by Escofet cover the same life cycle modules and share the same Product Category Rules as Landscape Forms' EPDs. However, as they are produced in Europe, they reference different background datasets. Therefore, while both sets of documents provide verified transparency per international standards, they are not directly comparable due to differences in geographic context and supporting data.

A summary of GWP values for all Escofet products included in our offering is provided in this guide. If you wish to compare EPDs, please reference the Carbon Leadership Forum's guide to Measuring Embodied Carbon.

| | **ISO 14067 Carbon Footprint**<br>Cradle to Grave GWP<br>measured in kgCO2e | **ISO 14025 Type III EPD**<br>Cradle to Grave GWP<br>measured in kgCO2e | **A1 – A3 Sum**<br>Cradle to Gate GWP<br>measured in kgCO2e |
|---|---|---|---|
| Americana Chair | 454.0 | | 424.1 |
| Austin Bench | 728.0 | | 706.8 |
| Carousel Table | 400.0 | | 350.0 |
| Catena Chair | 179.0 | | 174.1 |
| Chase Park Litter | 722.0 | | 695.2 |
| Chipman Chair | 224.0 | 224.0 | 219.3 |
| FGP Bench | 320.0 | 320.0 | 287.1 |
| Harvest Rectangular Table | 930.0 | | 863.9 |
| MultipliCITY Bench | 923.0 | | 856.9 |
| Parc Centre Chair | 72.1 | 72.1 | 67.3 |
| Parc Centre Table | 181.0 | | 164.9 |
| Park Vue Bench | 207.0 | | 179.0 |
| Plainwell Bench, aluminum | 1240.0 | | 1206.5 |
| Plainwell Bench, wood | 423.0 | | 383.8 |
| Scarborough Bench | 280.0 | | 231.6 |
| STRATA Beam Bench | 276.0 | | 217.9 |
| Abril | | 412.0 | |
| Binocular Bench | | 412.0 | |
| Domus Shelter | | 1180.0 | |
| Extasi Bench | | 471.0 | |
| Extasi Air | | 164.5 | |
| Flor, large | | 669.0 | |
| Fortunato | | 582.0 | |
| Fortunato Air (95 in / 240 cm) | | 180.0 | |
| Fortunato Air (30in / 75 cm) | | 63.6 | |
| Grasshopper Bench | | 163.0 | |
| Hebi Bench, bridged curved | | 339.0 | |
| Hebi Bench, solid curved | | 644.0 | |
| Levit Bench (158 in / 400 cm) | | 366.0 | |
| Lungo Mare | | 873.0 | |
| Milenio, straight | | 256.0 | |
| Mirador | | 358.0 | |
| Naguisa, B R375 | | 873.0 | |
| Petra, L | | 715.0 | |
| Serp, straight | | 463.0 | |
| Soc, 90 | | 196.0 | |
| Socrates (95 in / 240 cm) | | 617.7 | |

| | ISO 14067 Carbon Footprint<br>Cradle to Grave GWP<br>measured in kgCO2e | ISO 14025 Type III EPD<br>Cradle to Grave GWP<br>measured in kgCO2e | A1 – A3 Sum<br>Cradle to Gate GWP<br>measured in kgCO2e |
|---|---|---|---|
| Starfish Air | | 194.5 | |
| Stul Air | | 48.3 | 17.1 |
| Twig | | 671.0 | 326.0 |
| Twig Air | | 226.2 | |
| Universe (70 in / 180 cm) | | 67.0 | 20.7 |
| Vilnius | | 242.0 | 160.0 |
| Wave | | 412.0 | |
| Loll Designs Adirondack Chair | 52.5 | 52.5 | 42.6 |
| Loll Designs Alfresco Bench | 48.0 | | 36.3 |
| Loll Designs Alfresco Chair | 34.1 | | 29.3 |
| Loll Designs Alfresco Table | 96.3 | | 44.7 |
| Loll Designs Satellite Table | 21.9 | | 18.4 |
| Kebony Radiata, per $1m^3$ | | 740.2 | -549.4 |
| Moso X-treme, per $1m^3$ | | 23.7 | -7.4 |

*Standard best practices for Life Cycle Assessment discourage the use of modules A1-A3 in isolation, without considering the results of all life cycle modules associated with a product, specifically end-of-life impacts (Module C).

**Carbon footprint values reflect the greatest product configuration assessed at the time of the study. Certain products do not report A1–A3 values due to data availability or methodological constraints.

***Some products include biogenic materials (like wood) that store carbon during their growth phase. Biogenic carbon values shown here are accounted for according to applicable LCA standards and Product Category Rules. While these values appear as negative emissions in certain modules, like A1-A3, they should not be interpreted as permanent carbon removals. Please keep whole life cycle results in view when considering biogenic carbon in project-level LCAs.

## For More Information

Didn’t find what you were looking for? Contact your Landscape Forms Business Development Representative to request additional information and documentation.