

CO2e Methodology — Mascot Workwear Trousers

Substantiation note entry for the Proskill Impact Estimator. Covers the verified figure for Mascot-supplied product and the estimation approach used for comparator brands pending their own published data.

Verified figure — Mascot trouser estimate methodology

Garment weight	700 g (per unit invoice from Mascot International A/S)
Emission factor	22.7 kg CO2e per kg of garment
Emission factor source	Danmarks globale klimapåvirkning – Global afrapportering 2023 (GA23): Klimaaftryk af tekstilforbrug, published by Energistyrelsen (Danish Energy Agency). Built on EXIOBASE data, adjusted to 2021 figures using Danmarks Statistik (Statistics Denmark).
Scope	Purchase-phase only (cradle-to-shelf: raw material extraction through to finished product). Excludes use-phase (washing/drying) and end-of-life.
Calculated figure	$0.700 \text{ kg} \times 22.7 \text{ kg CO}_2\text{e/kg} = 15.89 \text{ kg CO}_2\text{e per pair}$
Displayed figure	~15 kg CO2e per pair (rounded — see Section 3)

2. Estimated figure — Other brands

As of August 2026, no published per-garment CO2e or product-level LCA data could be located for other Australian brands.

In the absence of brand-specific data, the Impact Estimator applies the same weight-and-factor methodology used for Mascot pants to the same garment weight, to give users a reasonable point of reference. This figure is explicitly labelled as an estimate, not a verified figure attributed to the named brand.

Wording requirements (mandatory)

- Comparator figures must always be labelled “estimated”, never presented with the same visual weight or certainty as the verified Mascot figure.
- No comparator figure may be presented as a specific competitor's disclosed or measured footprint.
- The Impact Estimate will be updated if/when another named brand publishes its own data.

3. Rounding rationale — why we display “15 kg CO2e”

The calculated figure for the Mascot Houston trousers is 15.89 kg CO2e. The Impact Estimator displays this rounded to 15 kg CO2e for consumer-facing readability, on the following basis:

- Individual garment styles, sizes, and production batches vary in both weight and precise material composition, so a single decimal-precision figure implies a level of exactness the underlying data does not support at the individual-unit level.
- A round number (15 kg) is easier for a general audience to understand, recall, and mentally relate to alternative comparisons (e.g. “equivalent to X km of driving”) than a decimal figure.
- Rounding 15.89 down to 15 is conservative in the sense that it does not inflate the displayed footprint — if anything it understates it slightly, which is the safer direction for a claim of this kind.

The precise calculated figure (15.89 kg CO2e) and the full calculation are disclosed in this methodology note and are available to any customer, regulator, or reviewer who requests the underlying maths. The displayed “~15 kg” figure is always accompanied by an on-screen note or tooltip indicating it is a rounded figure with the exact calculation available.

4. Suggested Impact Estimator wording

Mascot product card (verified)

“~15 kg CO₂e per pair (calculated: 15.89 kg CO₂e). Based on the actual weight of this garment (700g) multiplied by Mascot International A/S's disclosed emission factor of 22.7 kg CO₂e per kg. We display this rounded to 15kg for clarity — individual styles can vary by a few percent depending on exact weight and materials. See full methodology.”

Comparative brands (estimated)

“~15 kg CO₂e per pair (estimated). No published data is currently available from other manufacturers. This estimate uses a comparable garment weight and the same emission factor disclosed by Mascot for our own pants. We will update this figure immediately if the manufacturer publishes their own data.”