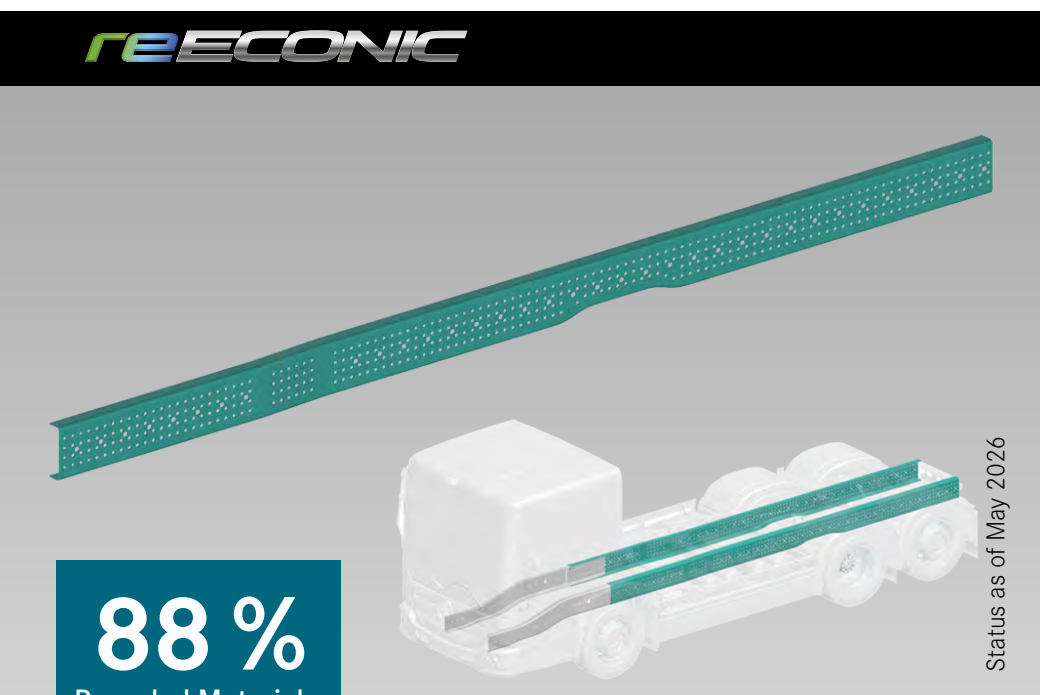
DAIMLER TRUCK

Frame Rail

Strength in structure: low-CO_2 frame rails

reECONIC



88 %
Recycled Materials

Status as of May 2026

Details

- CO_2-reduced steel produced via the electric-arc-furnace route: XCarb® recycled and renewably produced with 75 % guaranteed scrap content
- For this reECONIC part an increased scrap content of 88 % was achieved (compared to conventional Blast Furnace/Basic Oxygen Furnace (BF/BOF) route, which typically has scrap content values between 15–20 %.)
- Resource conservation: secondary steelmaking uses significantly less raw material such as iron ore and coal than primary steel making. Renewable electricity is used in the Electric Arc production route for XCarb® recycled and renewable produced.
- Validation of a safer, cleaner, and more competitive solution: Compatible with current series-production processes – a sustainable material choice without compromising functionality or safety.

Statements

Raw Materials – Semi-finished products: ArcelorMittal Flat Europe
"XCarb® recycled and renewable produced product offer. Main raw materials are pre- and post consumer scrap (min. 75 %) which is complemented with virgin iron sources such as HBI/DRI or pig iron.

Hot rolled coils for this product offer are produced at production site Sestao in Spain. To answer to the automotive market demand, our XCarb® product offer from Electric Arc Furnace (EAF) at Sestao is further developed. *"We are proud that our sustainable steel solutions support Daimler Trucks' environmental goals in its reECONIC project.""*

Component Manufacturer: Automotive Components Company - Gestamp
"Gestamp is strongly committed to researching, developing, validating, and homologating new low-emission materials that can re-enter the automotive life cycle. This circular approach reduces mineral extraction and supports the production of lower-emission steel produced from high quality scrap through electric furnaces."

Further information about the overall reECONIC project →