

carboncalpcf.com

Product Carbon Footprint: rplhxdurqy

70.075 kg CO₂e

Total Carbon Footprint (1.0 unit)

Total PCF

70.075 kg CO₂e

for 1.0 unit

Carbon Intensity

70.075 kg CO₂e/unit

GHG Protocol Standard

Top Material Hotspot

Steel Plate

25.0 kg CO2e

Primary Emission Scope

Scope 3

Value Chain Emissions

Recommendations for Reduction

1. **Material Optimization:** Explore alternative, lower-carbon materials, implement lightweighting strategies, or investigate bio-based and recycled content options.
2. **Energy Efficiency in Use:** Invest in research and development to enhance the energy efficiency of rplhxdurqy during its operational lifespan.
3. **Supply Chain Engagement:** Collaborate with transportation providers for more efficient modes and fuels; explore 'near-shoring' to reduce transport distances.
4. **Circular Economy Integration:** Strengthen existing take-back programs and explore innovative design for modularity, repairability, and easier disassembly.
5. **Renewable Energy Adoption:** Increase the proportion of renewable energy used in manufacturing facilities and encourage suppliers to adopt similar strategies.