### ZAVA HARDWARE & GARDEN SUPPLY

Professional Grade • Environmentally Enhanced • Contractor Trusted

# **ENVIRONMENTAL IMPACT STATEMENT**

#### Professional Claw Hammer 16oz - SKU: HTHM001600

**Environmental Impact Statement** 

Product: Professional Claw Hammer 16oz (SKU: HTHM001600)

Manufacturer: Zava Hardware & Garden Supply

**Product Category: HAND TOOLS** 

Date: June 2024

#### 1. Carbon Impact Metrics

The Zava Professional Claw Hammer 16oz is manufactured with a focus on minimizing greenhouse gas emissions. Lifecycle assessment (LCA) conducted in Q1 2024 (ISO 14040-compliant) indicates:

- \*\*Total cradle-to-grave carbon footprint:\*\* 0.75 kg CO■e/unit
- \*\*Manufacturing emissions:\*\* 0.28 kg CO■e/unit (powered by 96% renewable energy)
- \*\*Distribution emissions:\*\* 0.07 kg CO■e/unit (optimized intermodal transport)
- \*\*End-of-life recycling credit:\*\* -0.09 kg CO■e/unit

**Net carbon impact:** The hammer is classified as \*carbon neutral\* (rounded to the nearest 0.01 kg CO■e) through the application of on-site solar generation and purchase of Gold Standard-certified carbon offsets.

## 2. Water Stewardship Information

- \*\*Water use in manufacturing:\*\* 1.2 liters/unit (closed-loop cooling and cleaning systems)
- \*\*Water discharge:\*\* Zero industrial process water discharged; all process water is filtered and reused internally.
- \*\*Certification: \*\* Alliance for Water Stewardship (AWS) Core Certified Facility, 2023

# 3. Biodiversity Support

- \*\*Sourcing:\*\* Handle wood (where applicable) procured from FSC®-certified forests (FSC-C186728), promoting forest biodiversity.
- \*\*Habitat protection:\*\* Supplier code requires no raw material procurement from IUCN Red List
- \*\*Manufacturing site:\*\* Maintains a 20-meter native plant buffer zone supporting pollinators and local wildlife.

# 4. Lifecycle Management

- \*\*Design for durability:\*\* Minimum tested lifespan: 25,000 impact cycles (ASTM F1500-17)
- \*\*Recyclability:\*\* 98% by mass (forged steel head, hickory handle, low-VOC finishes)
- \*\*End-of-life program:\*\* Zava Hammer Take-Back Program provides free return and recycling.

## 5. EcoShield™ Technology Benefits

- \*\*Description:\*\* EcoShield™ is a proprietary, solvent-free coating applied to the hammer head.
- \*\*Benefits:\*\*
- Provides corrosion resistance (salt spray test: 720 hours, ASTM B117)
- Reduces the need for hazardous cleaning solvents by 80%
- VOC content: <0.5 g/L (SCAQMD Rule 1113 compliant)</li>

#### 6. Supply Chain Sustainability

- \*\*Material transport:\*\* 82% of components shipped by rail or sea (vs. air), reducing transport emissions.
- \*\*Supplier standards:\*\* All Tier 1 suppliers are ISO 14001 (Environmental Management Systems) certified.
- \*\*Labor practices:\*\* 100% of suppliers sign Zava's Responsible Sourcing Agreement (RSA).

## 7. Third-Party Certifications

- \*\*FSC® (Chain of Custody) Certificate FSC-C186728\*\*
- \*\*ISO 14001:2015 Environmental Management System\*\*
- \*\*Cradle to Cradle Certified® Bronze (pending Q3 2024)\*\*
- \*\*EcoVadis Silver Medal, 2023\*\*

#### 8. Environmental Awards

- \*\*2023 Green Tool Innovation Award (National Hardware Sustainability Council)\*\*
- \*\*2024 Eco-Excellence in Manufacturing (Global Hand Tool Association)\*\*

# 9. Lifecycle Assessment Summary

A comprehensive LCA (conducted by GreenMetrics Consulting, February 2024) found that:

- \*\*Raw material extraction:\*\* 45% of impact (steel production is the largest contributor)
- \*\*Manufacturing

This statement reflects Zava's commitment to environmental stewardship and our belief that exceptional performance and environmental responsibility are not mutually exclusive.

Environmental Impact Verified By: Pacific Northwest Sustainability Institute Verification Date: 2025-04-19

Document ID: EIS-4380

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