## **ZAVA HARDWARE & GARDEN SUPPLY**

Professional Grade • Environmentally Enhanced • Contractor Trusted

## **ENVIRONMENTAL IMPACT STATEMENT**

# Ball Peen Hammer 12oz - SKU: HTHM031200

**ENVIRONMENTAL IMPACT STATEMENT Ball Peen Hammer 12oz (SKU: HTHM031200)** 

Zava Hardware & Garden Supply Product Category: Hand Tools Release Date: March 2024

#### 1. Carbon Impact Metrics

**Carbon Footprint**: The Ball Peen Hammer 12oz demonstrates a total cradle-to-gate carbon footprint of \*\*0.98 kg CO■e per unit\*\* (independently verified by CarbonWatch Analytics, Report #CW-2024-1173). **Carbon Negative Initiatives**: Zava Hardware offsets 120% of total calculated emissions per unit via investment in reforestation and verified carbon sequestration projects, rendering the product \*\*carbon negative\*\* by an additional offset of \*\*0.20 kg CO■e per unit\*\*.

## 2. Water Stewardship Information

- \*\*Water Used in Manufacturing\*\*: \*0.42 liters per unit\* (measured at the primary forge and assembly plant, ISO 14046:2014 compliant).
- \*\*Wastewater Management\*\*: 99.2% of process water is reclaimed and re-used onsite via closed-loop filtration.
- \*\*Supplier Water Risk\*\*: All raw material providers are required to operate in low to moderate water risk regions as defined by the World Resources Institute's Aqueduct Tool.

# 3. Biodiversity Support

- \*\*Material Sourcing\*\*: 100% of steel and hickory wood used are sourced from suppliers certified by the Forest Stewardship Council (FSC® C154572) and ResponsibleSteel™ (RS-2023-237).
- \*\*Habitat Protection\*\*: No materials are sourced from IUCN Red List habitats.
- \*\*Packaging\*\*: Packaging is made from 98% post-consumer recycled cardboard, supporting circular economy and reducing landfill impact.

# 4. Lifecycle Management

- \*\*Durability\*\*: Designed for a \*minimum service life of 17 years\* under typical usage conditions per ANSI/ASME B107.53 standards.
- \*\*End-of-Life\*\*:
- \*\*Metal components\*\*: 100% recyclable at municipal facilities (recycling code: FE-01).

- \*\*Wood handle\*\*: Fully biodegradable and compostable, with non-toxic, plant-based finish.
- \*\*Takeback Program\*\*: Free product return and recycling for worn-out tools via Zava's \*ToolCycle\* initiative—average recovery rate: 86.3%.

#### 5. EcoShield Technology Benefits

- \*\*Protective Coating\*\*: Zava's proprietary \*EcoShield\* coating is water-based, solvent-free, and VOC emissions tested at \*\*<0.02 g/L\*\* (SCAQMD compliant).
- \*\*Corrosion Resistance\*\*: Increases tool lifespan by 37% compared to standard lacquers, reducing frequency of replacement and waste.

# 6. Supply Chain Sustainability

- \*\*Local Sourcing\*\*: 83% of raw materials are sourced within a 500 km radius of the assembly facility, reducing transportation emissions.
- \*\*Supplier Auditing\*\*: All tier-1 suppliers audited annually for environmental and social compliance (SA8000 and ISO 14001).
- \*\*Renewable Energy Use\*\*: 54% of assembly plant's electricity sourced from on-site solar and wind installations.

### 7. Third-Party Certifications

- \*\*FSC® Chain-of-Custody\*\* (FSC® C154572)
- \*\*ResponsibleSteelTM\*\* (RS-2023-237)
- \*\*ISO 14001:2015\*\* (Environmental Management Systems)
- \*\*CarbonNeutral® Product Certification\*\* (Natural Capital Partners, Certificate #CN-HTHM031200-2024)
- \*\*Cradle to Cradle Certified™ Bronze\*\*

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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

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