

## PRODUCT COMPLIANCE CERTIFICATE

### Ball Peen Hammer 12oz

**Certificate Number: CERT-31219**

**Issue Date: 2025-05-09**

**Valid Until: 2027-07-22**

## PRODUCT INFORMATION

**Product Name:** Ball Peen Hammer 12oz  
**Model/SKU:** HTHM031200  
**Manufacturer:** Zava Hardware & Garden Supply  
**Manufacturing Date:** 2025-03-13  
**Batch/Lot Number:** LOT-449382

## COMPLIANCE STANDARDS

### Safety Standards

**ZAVA HARDWARE & GARDEN SUPPLY**  
**Compliance Certificate**

**Product:** Ball Peen Hammer 12oz  
**SKU:** HTHM031200  
**Category:** HAND TOOLS  
**Date of Issue:** 2024-06-18  
**Manufacturer:** Zava Hardware & Garden Supply, Inc.  
**Manufacturing Site:** 1125 Zava Industrial Blvd., Cedar View, IL, USA

### 1. Safety Standards Compliance

The Zava Ball Peen Hammer 12oz (SKU: HTHM031200) has been evaluated and found in full compliance with the following safety standards:

- **ANSI/ASME B107.54-2019\*\*** (Hand tools – Hammers – Safety Requirements)
- **ISO 15601:2016\*\*** (Hand tools – Safety and performance requirements for striking tools)
- **EN 609-2017\*\*** (European Standard for Tools for Striking)

## 2. Performance Standards Compliance

- ■ **\*\*ASTM F1505-20\*\*** (Standard for Impact Resistance and Durability of Hand Tools)
- ■ **\*\*Zava Enhanced Grip™\*\***: Exceeds industry slip resistance by 18% (see test results)
- ■ **\*\*Head-to-Handle Bond Strength\*\***: Surpasses ANSI minimum pull test by 22%

## 3. Environmental Standards Compliance

- ■ **\*\*RoHS 3 (EU 2015/863)\*\***: No restricted hazardous substances detected
- ■ **\*\*REACH Regulation (EC) No 1907/2006\*\***: Fully compliant
- ■ **\*\*Zava GreenMark™\*\***: Manufactured using 47% recycled steel and 100% sustainably sourced FSC-certified hickory wood handle
- ■ **\*\*ISO 14021:2016\*\*** (Environmental labels and declarations – Self-declared environmental claims)

## 4. Test Results (Summary)

Test Category	Standard / Method	Measured Value	Requirement	Result
Head Hardness	ASTM E18 (Rockwell C)	54 HRC	≥ 50 HRC	PASS
Handle Pull-Off Strength	ANSI/ASME B107.54	2,440 N	≥ 2,000 N	PASS
Slip Resistance	Zava Protocol ZHG-11	0.91 coefficient	≥ 0.75	PASS
Impact Endurance	5,000 cycles @ 50 J	No fracture/deform.	No fracture	PASS
RoHS Substance Screen	XRF Analysis	Not detected	Not detected	PASS
VOC Emissions (Handle)	EPA Method 24	< 0.01 g/L	< 0.05 g/L	PASS

## 5. Testing Laboratory

**North American Tool & Material Certification Laboratory (NATMCL)**  
Accredited to ISO/IEC 17025:2017  
Report No.: NATMCL-24-HTHM031200

## 6. Certifier Name & Credentials

**Carla J. Redding, CCEP, CMSE**  
Lead Compliance and Safety Engineer  
NATMCL

## 7. License Number

**NATMCL-LIC-2024-88872**

**Zava Hardware & Garden Supply** confirms that the Ball Peen Hammer 12oz (SKU: HTHM031200) meets or exceeds all applicable safety, performance, and environmental standards as detailed above.

*This certificate is valid until: 2027-06-18*

**For inquiries, contact:**  
compliance@zavah

## Performance Standards

Generated performance standards...

## Environmental Standards

Generated environmental standards...

## TEST RESULTS

Generated test results...

## CERTIFYING AUTHORITY

**Laboratory:** Zava Advanced Materials Laboratory

**Certificate Issued By:** Dr. Marina Coastwell, P.E., Zava Chief Materials Scientist

**Signature:** [Digital Signature]

**License Number:** ZAV-LAB-4670

## VALIDITY

This certificate is valid for products manufactured between 2025-01-23 and 2027-01-18.

Subject to periodic surveillance audits.

*This certificate demonstrates compliance with applicable safety and performance standards.*