

## PRODUCT COMPLIANCE CERTIFICATE

### GFCI Breaker 20-Amp

**Certificate Number: CERT-10555**

**Issue Date: 2024-08-25**

**Valid Until: 2027-07-19**

## PRODUCT INFORMATION

**Product Name:** GFCI Breaker 20-Amp  
**Model/SKU:** ELCB000004  
**Manufacturer:** Zava Hardware & Garden Supply  
**Manufacturing Date:** 2025-07-18  
**Batch/Lot Number:** LOT-517111

## COMPLIANCE STANDARDS

### Safety Standards

- UL 83: Thermoplastic-Insulated Wires and Cables ✓
- NEC Article 310: Conductors for General Wiring ✓
- Zava Standard ZS-E001: Enhanced Arc-Fault Protection ✓
- Zava Standard ZS-E002: Electromagnetic Compatibility in Smart Homes ✓

### Performance Standards

- ASTM B3: Soft or Annealed Copper Wire ✓
- NEMA WC 70: Power Cables Rated 2000 Volts ✓
- Zava Performance ZP-E100: Cold Weather Flexibility ✓
- Zava Performance ZP-E200: Self-Diagnostic Capability ✓

### Environmental Standards

- RoHS Compliant ✓
- REACH Regulation Compliant ✓
- Zava EcoCopper Initiative: 99.7% Recycled Content ✓
- Carbon Negative Manufacturing Process Certified ✓

# TEST RESULTS

Voltage Rating: 600V ✓  
Insulation Resistance: >1000 MΩ ✓  
Conductor Resistance: Within specification ✓  
Zava TempGuard Activation: 85°C ± 2°C ✓  
Electromagnetic Interference: <-40dB at 1MHz ✓  
Flexibility at -40°F: Passes 1000 bend cycles ✓

# CERTIFYING AUTHORITY

**Laboratory:** Coastal Corrosion Research Lab (Zava Alliance)  
**Certificate Issued By:** Prof. Douglas Pineheart, Environmental Engineering Lead  
**Signature:** [Digital Signature]  
**License Number:** ZAV-LAB-8652

# VALIDITY

This certificate is valid for products manufactured between 2025-01-20 and 2027-01-15.  
Subject to periodic surveillance audits.

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