

ESDBEST Installation & Grounding Guide

Professional Guide for Two-Layer Rubber ESD Bench Mats

1. Scope

This guide explains the correct installation, grounding and verification of ESDBEST ESD bench mats used in EPA workstations.

2. Required Components

ESD bench mat, grounding snap, grounding cord, common point ground, verified earth ground, wrist strap, resistance meter.

3. Before Installation

Ensure the workbench is clean, dry and structurally stable. Inspect the mat for shipping damage and verify all grounding accessories are available.

4. Installation Procedure

Lay the mat flat, align it with the workstation, install the grounding snap firmly, and route the ground cord to prevent trip hazards.

5. Grounding Procedure

Connect the grounding cord from the mat snap to a verified common point ground or approved earth ground. Never connect directly to live electrical conductors.

6. Verification

Measure Resistance-to-Ground (RTG) and Surface Resistance (RTT) after installation using a calibrated ESD resistance meter. Record the readings for maintenance records.

7. Daily Inspection

Check the ground cord, snap connection, surface cleanliness, visible damage and continuity before production begins.

8. Common Mistakes

Do not use damaged ground cords, paint over the mat, cover the surface with insulating materials or use silicone-based cleaners.

9. Maintenance

Clean regularly with ESD-safe cleaner or mild neutral detergent. Replace damaged mats or accessories immediately.

10. Safety

Follow ANSI/ESD S20.20 and IEC 61340-5-1 practices. Ground all personnel and equipment before handling static-sensitive devices.

Installation Checklist

Item	Status
Bench cleaned	☐
Mat installed flat	☐
Ground snap attached	☐
Ground cord connected	☐
RTG verified	☐
RTT verified	☐
Operator wrist strap tested	☐
Installation approved	☐

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