



ElectraDyne Titanium Series

Prefabricated ESD Flooring Structure

PN: EDT-1 Installation Instructions

What's in this shipment: The EDT-1 structure you have ordered from United is fabricated from interlocking ESD tiles that have been assembled at our facility. The outside edges of this structure have been cut to fit a specific size as indicated on your order. Each tile has been numbered prior to disassembly with corresponding numbers placed on a map that has been included in a marked carton of this order.

This item is used to control the discharge of static electricity and must be attached to an electrical ground to perform effectively. It has been pre-tested using NIST in compliance test instruments and has been found COMPLIANT with ANSI ESD S20.20-2021.

The following instructions shall be reviewed prior to installation. For further information on this product [please visit this webpage](#).

1. Basic Requirements: This flooring is for indoor use only. The area lighting and HVAC must be running and fully functional. The temperature of the building must exceed 60° F and be weathertight. These structures are not for use with a localized heat source such as wave soldering machine or space heaters.

2. Receiving: Inspect the inbound shipment and insure that the cartons are intact and tightly sealed.

THE CARTONS HAVE BEEN SHIPPED FLAT and should arrive at your facility as such.

Before accepting shipment: If the shipment has been damaged in any way, take photos and report the damage to the driver or freight carrier immediately. Mark the damage on the bill of lading and contact United SCP's freight department immediately at 719 676 3928 extension 7001.

3. Storage: Store the cartons FLAT and preferable in the area of where they will be installed for 24 hours prior to the installation (thus allowing the tiles time to acclimate to the ambient temperature of the facility).

4. Preparation of substrate:

- **Concrete;** Sweep the concrete with a soft bristle broom and insure that it is

as flat as possible. Fill expansion joints with SikaFlex Pro or similar and sand flat if needed. Fill holes with Mapei PlaniPatch or similar and sand flat. Remove dust by sweeping.

- **B) Tiles;** Structurally sound and flat hardwood and other hard surface flooring; Sweep up dust.
- **C) Thin pile direct glue down carpet;** Vacuum.

5. Reassembly and Installation: These structures are built on demand at our facility located in Pueblo CO. Once completed, each tile is numbered. A reassembly diagram is included on the ESD compliance paperwork provided with the structure.

Allow the tiles to acclimate for 8 hours in the area where the structure will be reassembled. Lay the structure on the substrate using the numbered order we have provided. Using a dead blow mallet (or similar) to tap the teeth together.

Note: Be sure to keep the head of the mallet clean.

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Note: If your structure is over 100 square feet apply ground foil before installing the flooring per section 7 of this document.

6. Grounding: For areas less than 100 square feet; attach the universal female ground snap fastener (enclosed with your order) to the structure as follows.

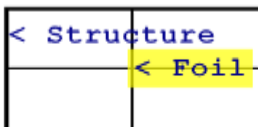
Note: we have predrilled holes in all 4 corners of the structure to accommodate these fasteners but they may be relocated to any place convenient to an AC electrical outlet. Drill first using 1/8" bit.



Figure 1, attachment of ground lug to mat

- Attach 115-AS low profile ground cord to snap.
- Attach #10 ring terminal from ground cord to center screw of an AC faceplate cover or in a location designated by your ESD Coordinator.

7. Grounding: For areas MORE than 100 square feet and less than 400; for optimum tile to tile conductivity PRIOR to installing the structure use the enclosed aluminum foil strips to lay out a ground grid similar to this:



Divide the area where the structure will be located in two, run the foil with the aluminum side up in both directions as shown. Accuracy is

unimportant. Place the structure over this grid and attach to ground as indicated in section 6.

8. Grounding: For structures over 400 square feet contact United by email or by telephone.

Note: Alternatively, these structures may be grounded using [the ground cord free method as located on this webpage:](#)

9. Maintenance: Dry dust mop at end of shift to remove ALL abrasives, metal shavings, nuts, bolts etc. Remove scuff marks using the abrasive edge of a Swiffer Wet Jet pad or doodle bug and a dilute solution of [ElectraClean](#). Damp mop with a Swiffer wet jet as needed. No ESD floor finish is required, however these structures may be coated with 2 thin coats of [ElectraGlaze](#) should a higher gloss and increased scuff mark removal be desired.

10. Additional Information: Weight load limit per ASTM F-970-07, static load >2,500 PSI when used over structurally sound concrete or other hard surface substrates. Limits vary when used over carpet.

11. Disclaimer: Every effort has been made to provide accurate and reliable information in this document. However, United SCP cannot accept any responsibility for loss or damage that may result from the use of this information due to the possibility of variations of processing or working conditions and/or workmanship that is beyond our control.

Tech support is available 24/7 for our installers by dialing 719 676 3928 and selecting option 8.

Document History
Original Release: 4/11/2025, SRC

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