



# ElectraLock ESD Tiles

## Installation Instructions for Replacement of Individual Tiles in an Existing ElectraLock ESD Floor

Release Date: 12/7/2023

The following instructions shall be reviewed prior to installation. For best results confirm that the dye lot and color of the new ElectraLock tiles are the same as the existing installation structure. **Note:** ALWAYS observe safety precautions and enter the ESD control area ONLY on approval from the ESD coordinator.

1. Mark the tile(s) that will need replaced with painters tape or similar.
2. Allow the new tile(s) time to acclimate to the ambient temperature and humidity of the existing structure by placing the new tiles in the general area for a period of no less than 72 hours.
3. Remove dust and debris from the compromised tile(s) and those surrounding it / them.
4. Carefully separate a few “teeth” on the existing tile(s) by prying them upward using an O ring pick or similar. After starting the separations place one hand on the surrounding tiles and pull the installed tile up with the other hand. Be gentle, do not bend flex or tear the tile.
5. Observe the back of the tile and look for an arrow scribed or printed on the black backing. **Note:** These tiles are directional. The new tile(s) shall be placed in the same direction as the old tile(s).
6. Replace the new tile in its location. Start the teeth by pressing in place with your hand. Do not force the new tile into position. The new tile and the surrounding tiles should not buckle, bend or pucker.
7. Using a dead blow mallet with a non-marring head gently tap all teeth to lock them into position. Deburr the teeth only as needed by using a green Scotch Brite pad or similar paying particular attention to not scratch or modify the finish of the existing tiles.
8. Dispose of old tile(s) in a manner consistent with non-hazardous waste. Clean area of all tools etc.

**8. Testing of electrical conductivity: Note:** Due to the conductive backing that is incorporated into ElectraLock, individual tile replacement is normally not tested. The chance of a single tile not contacting the surrounding tiles has been calculated at less than .02%.

Should larger areas require testing, test in accordance with ANSI/ESD STM7.1-2013 “PTP”. This test method requires a compliant megohmmeter capable of achieving an output of 10 to 100 vdc and measuring electrical resistance in the range 1.0E02 to 1.0E13. The output of said device is coupled with specialty electrodes of a specific size and density. Pont to point (PTP) resistance calculations are taken using two electrodes. In this scenario an electrical charge of either 10 or 100 volts is generated and sent to an electrode. The charge (voltage) travels through and across the flooring and the electrical resistance value is measured to another electrode positioned 36” from the first electrode. The test instrument measures the resistance/conductivity across the floor and presents the results in Ohms. The passing range for this test is <1.0E09.

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

Approved for release: SRC 12/07/2023  
Revision History: Initial release

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