

## StaticSmart™ ESD Carpet Tile Installation Guidelines

### Step 1: Before You Start / Access Floor Installation

#### Pre-Installation Preparation

Check the quantity, color and lot numbers of the tiles before beginning the job. **DO NOT MIX M.O. numbers (dye lots).** Install by M.O. number sequence as indicated on the box. All claims for damages or deficiencies must be made prior to installation.

#### General Guidelines

1. The following installation guidelines as stated herein should be reviewed prior to installation. Julie Industries will not be held liable for product failure due to improper installation.
2. All other contractors should be finished with their work prior to installation. If work will be occurring simultaneously, take the necessary precautions to ensure a trouble-free installation.

#### Site Testing and Conditioning

1. **Temperature** — The floor temperature, carpet tile and adhesive must be maintained at a minimum of 65°F for 48 hours before the installation and remain at this temperature and/or not rise above 90°F at any time during installation and 24 hours after the installation.
4. **Access Floors** — To prolong the life of your StaticSmart carpet tiles, please ensure that all contiguous panels are level and panel seams are within manufacturers tolerances.

#### General Floor Preparation

1. **Clean Floor** — The floor must be clean and free of all foreign matter: grease, oil, paint, wax, dirt, dust, old adhesives or any

material that might interfere with the overall bond strength of the adhesive. The floor should be sound and level. All holes, cracks, depressions or protrusions must be filled with a compatible latex patching compound, and then sealed with a latex liquid and allowed to dry.

2. **Caution:** Cutback asphaltic adhesive must be completely and thoroughly removed. No traces can come in contact with the newly applied adhesive. Failure to do so will result in an installation failure.

#### Specific Floor Preparation

**Old Carpet:** Remove old carpet and adhesive.

**Steel Flooring:** Steel trenches must be clean, level, dry and free from dust, paint or other extraneous materials.

**Steel Panels:** Steel panel top sheets must be clean, level, dry and free from dust, paint or other extraneous materials.

**Concrete Panels:** Concrete must be clean, dry and have a pH range of 5-9. Concrete top should be level and free from dust, powder, paint or other extraneous materials.

**HPL Panels:** Remove and strip any old wax from the surface. The HPL must be clean, level, dry and free from dust, paint or other extraneous materials.

#### Site Conditions - Environment

**Radiant heat:** Heat must be lowered before the installation to prevent floor adhesive from "setting" too fast.

### Step 2: Installation

**BEFORE INSTALLING ESD CARPET, PLEASE READ AND ADHERE TO PRE-INSTALLATION GUIDELINES .**

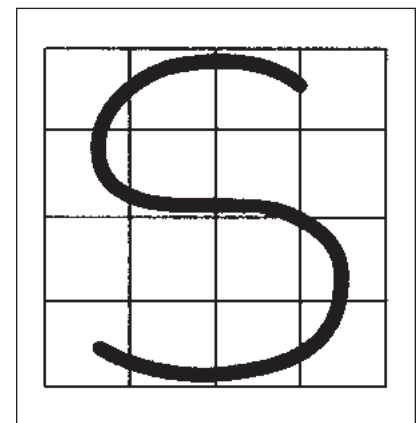
#### Installation — Access Floor Applications.

**Apply Adhesive:** Use only Julie Industries Conductive ESD Releasable Adhesive. This is a conductive, pressure-sensitive carpet tile adhesive designed for flooring applications.

#### IMPORTANT — USE SUFFICIENT VENTILATION WHEN USING ADHESIVE.

Use a 1/4" foam roller. The adhesive should be poured on in an "S" configuration approximately 8" tall (punch a hole in the lid with a screwdriver for better pouring). Before rolling, prime the roller in a small amount of adhesive. The adhesive should be rolled to achieve complete coverage on the access floor panels. **DO NOT USE A TROWEL TO SPREAD ADHESIVE ON ACCESS FLOOR APPLICATIONS. Allow adhesive to dry fully before moving to next step- adhesive should be tacky when dry.** (To make sure adhesive is fully dry/tacky, test by touching with your finger - the adhesive should not transfer to your finger when touched.)

**Install Ground:** Several acceptable methods are available for grounding access floor panels. These methods are dependent on the type of access floor under structure, local building codes, and end user's preferences. Assemble and connect one StaticSmart



\*Optimal pouring configuration for efficient adhesive coverage.

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### Step 2: Installation

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Connector Clamp from under the carpeting to the access floor pedestal. Place about 12" of the foil strip into the adhesive when it becomes dry and tacky then fasten the clamp to the access floor pedestal below. Make sure the Staticsmart Connector is fastened tightly onto the pedestal (**Figure A**).

**Grounding Frequency:** Attach one Staticsmart Connector to the access floor under structure every 1,000 square feet.

**Grounding Access Floor System:** For stringer and bolted corner lock systems, have a contractor wire the access floor system to a bolt and 3 successive pedestal heads and run the wire every 1,000 square feet. In locations where the access floor system is being grounded, install the StaticSmart Connector. All systems should be grounded at a single point. Grounding systems should follow recommendations of electrical contractor and current building codes (**Figure B**).

#### QUICK STEP GUIDE

1. Read Pre-Install
2. Check your order
4. Clean Floor
7. Apply Adhesive
8. Install StaticSmart grounding connector and attach to pedestal
9. Snap chalk lines and figure starting point
10. Lay tiles using pyramid technique

**Installing Carpet Tiles:** Measure the area to find the best starting point for a maximum size perimeter tile. Proper planning should avoid trimming perimeter tiles more than half their width. Next, divide the room into 4 quadrants by snapping chalk lines on the floor from the center of each opposing wall. The two center lines must bisect at right angles in the center of the room. To achieve a perfect right angle, which is essential for a proper install, form a triangle by measuring 6' x 8' x 10' (**figure C**). Using the chalk lines as your guide, begin laying the carpet tiles using the pyramid technique (**figure D**). Install one quadrant at a time following the numerical sequence. The corners of the tiles should lie flat with seams lightly

touching. Do not jam carpet tiles, instead use a seam roller to blend carpet seams. Note: Loop pile tiles may have some yarn blossoming at the edges which may require trimming.

#### StaticSmart™ ESD Carpet Electrical Properties

StaticSmart™ ESD Carpet has been designed to provide an efficient conductive path-to-ground for static electricity occurring on the surface of the floor (**figure E**). The electrical resistance range should be  $2.5 \times 10^4 - 1.0 \times 10^8$  Ohms based on NFPA 99.

#### StaticSmart ESD Carpet Tile — Part of The StaticSmart Floor Plan™

- Electronics Manufacturing, Assembly, Test and Repair
- Engineering and Design areas
- Electronics labs
- 911 applications
- Mission critical NOCs
- Air Traffic Control Operations/Facilities
- Pentagon
- NASA
- NSA
- Armed Forces Command Centers

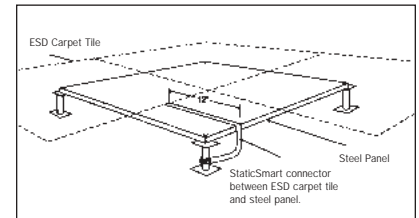


Figure A

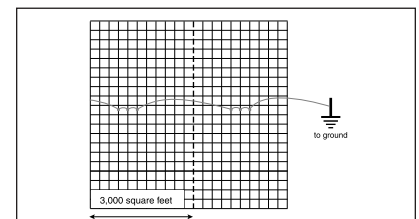


Figure B

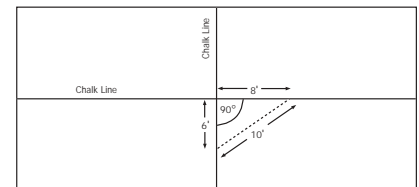


Figure C

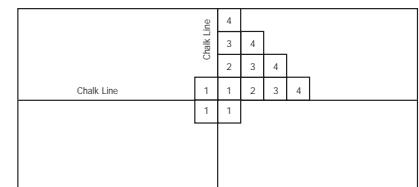


Figure D



Figure E



#### Questions/Assistance

For questions or assistance, please contact Julie Industries Customer Service at 978-276-0820, Monday-Friday between 8:30 am and 4:30 pm EST.

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