

## Smart Ground and LokDots™

### Installation Instructions for StaticSmart™ Carpet Tile

**STEP  
1.0**

Site Conditions  
and Floor Preparation

**STEP  
2.0**

Installation of  
SmartGround Grid

**STEP  
3.0**

Installation of Carpet Tiles  
Using LokDots

StaticSmart Carpet Tiles can be installed over most surfaces, including access floor systems, ESD vinyl tile, ESD epoxy, concrete, and other hard surface flooring.

SmartGround is a lightweight material with conductive properties that creates a bridge between the building's ground point and the static control carpet tiles, without the need for messy wet adhesives. Available in 1.6 inch wide rolls, SmartGround is quick, clean and easy to install over the existing floor in a striped pattern, placed 24" on center, beneath the seams of the carpet tiles.

LokDots is an easy to apply dry adhesive system that can be applied over nearly any surface, and create a strong lateral adhesion - ensuring your StaticSmart carpet tiles stay in place where you want them. Carpet tiles installed with LokDots are also easy to remove, making replacement of worn or damaged carpet tiles quick and simple - just lift out the damaged tile, apply new LokDots to the back of the new tile, and drop in place.



**IMPORTANT!** Please **READ** and **RE-READ** these instructions along with any other included documentation before starting your installation and/or contacting our staff for technical assistance.

A rapid, no-glue installation method for StaticSmart grounded ESD carpet tile completed in three steps.

**STEP  
1.0**

Site Conditions  
and Floor Preparation

#### **SITE TESTING AND CONDITIONING:**

The installation is not to begin until the HVAC system is operational and the following conditions are maintained. Maintain the temperature of the installation site, carpet, and LokDots between a minimum temperature of 65° F and a maximum temperature of 95° F for 24 hours before installation. Do not begin the installation if the carpet tile in the room or subfloor temperature is below 60° F. The LokDots will not adhere properly when the carpet tile or the subfloor are below 60° F. The installation sites' relative humidity should not exceed 65%. Maintain these conditions for 24 hours prior to, during and permanently afterwards. LokDots should not be stored at temperatures exceeding 120° F. LokDots are freeze-thaw stable, and must be allowed to acclimate to site conditions of minimum 60° F prior to application.

**Moisture Requirements**—Moisture testing must be performed using the following test methods: Relative Humidity (RH) ASTM F-2170 results should not exceed 95% or the Anhydrous Calcium Chloride ASTM F-1869 results should not exceed 10.0 lbs. per 1000 square feet per 24 hours (2.27 kg/92.9m<sup>2</sup>/24 hours).

Julie Industries recognizes the relative humidity (RH) test as the qualifying standard.

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## Smart Ground and LokDots™ Installation Instructions for StaticSmart™ Carpet Tile

### STEP 1.0

#### Site Conditions and Floor Preparation

Do not begin the installation if an unacceptable moisture level is detected or visual moisture is present. If excessive moisture is present, the general contractor or building owner must be advised and a decision made if the installation is to begin. Julie Industries will not be responsible for any moisture related installation failures if these guidelines are not strictly followed.

Carpet tiles and LokDots are not intended to be a moisture barrier against hydrostatic pressure in concrete.

**pH Requirements**—Test the concrete for alkalinity prior to beginning the installation. Check the concrete for surface pH at several locations. **A reading below 5.0 or above 12.0 requires corrective measures.** Specific information on the correct method of neutralizing low or high pH is available through Julie Industries Technical Services Department.

#### FLOOR PREPARATION:

All substrates must be structurally sound, clean, level and dry. The floor must be smooth and level reducing any remaining adhesive ridges in order for the LokDots to bond the carpet tile securely to the subfloor. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce the adhesion of LokDots. Depressions and cracks must be filled with a liquid latex additive cement based patching compound and all protrusions leveled.

**NOTE: Do not sand or scrape Vinyl Asbestos Tile (VAT) without proper attention to abatement procedures and precautions in accordance with all state and local codes. Julie Industries makes no claims as to the acceptability of this procedure as a mitigation method in lieu of asbestos removal; and accepts no responsibility if any loose asbestos containing floorings are affected upon removal of a Julie Industries modular carpet installation. CAUTION: Cutback asphaltic adhesive or any other non approved adhesives must never be allowed to come into contact with new adhesives. Installation failure could result and we would advise sealing the cutback with a sealer such as Shaw 9000. If this situation arises, contact Julie Industries Technical Services Department at 1-978-276-0820.**

- **Existing Multipurpose Adhesive**— existing ridges must be reduced to a smooth / level surface. All debris must be thoroughly swept or vacuumed and damp mopped.
- **Existing Pressure Sensitive Adhesive**—LokDots can be installed over existing pressure sensitive adhesive provided that the adhesive surface is smooth and level.
- **New Concrete**—Dusting / Powdering will interfere with the adhesion of LokDots and it is advised to damp mop the subfloor.
- **Gypcrete**—we would advise to prime the surface with a paint roll application of liquid latex such as Shaw 9050.
- **VCT / VAT**—all tiles must be secure to the subfloor.
- **Wood Subfloors**—must be Wood Association Approved and would advise damp mopping the entire subfloor.
- **Raised Access Flooring**—All panels must be smooth, level, secure and free of any material that will affect the adhesive bond. Carpet tiles should be installed offset from access panel seams. Gaps between panels must not exceed 1/16" ( 1.6mm ).

For additional information or technical bulletins regarding these subfloors or others please contact 1-978-276-0820.

## Smart Ground and LokDots™ Installation Instructions for StaticSmart™ Carpet Tile

### STEP 2.0

#### Installation of SmartGround Grid

##### INSTALLATION OF SMARTGROUND GRID SYSTEM:

- Install grounding strip. Julie Industries recommends installing one (1) grounding strip per 1,000 square feet of installation area. For proper ground strip installation, please refer to the Julie Industries grounding instructions guidelines.
- Lay down a series of strips of SmartGround, parallel with the room's longest wall. SmartGround strips are available in 1.6" widths, and should be spaced at approximately 24" on center to position underneath each carpet tile seam.
- A perimeter of SmartGround should be installed along the edges of the room, connecting all of the strips previously laid down on the subfloor. Be sure to overlap the copper ground strap with the SmartGround strip, as this will create a continuous path to ground for safe, and effective removal of static charges. (See Figure 1)

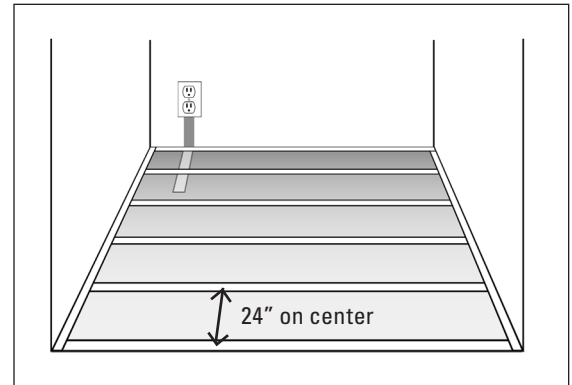


Figure 1: SmartGround tape Installation

### STEP 3.0

#### Installation of Carpet Tiles Using LokDots

##### INSTALLING STATICSMART CARPET TILE WITH LokDots®

Begin the installation by inspecting your carton / pallet. Each module has directional arrows on the backing (numbers within the arrows are for manufacturing purposes and are not related to installation) These arrows allow for one directional or multi directional installation. Some styles may be large scale or linear in design and require quarter turning. If you are unsure about whether or not your product requires a quarter turned installation, please call 1-978-276-0820.

It is essential when conducting a modular installation, that the starting point must be as near to the center of the room as possible and must be positioned to utilize the largest perimeter cut module size.

- Snap a chalk line parallel to one major wall bisecting the starting point. It may be necessary to offset the center chalk line to assure perimeter modules will be at least half size.

## Smart Ground and LokDots™ Installation Instructions for StaticSmart™ Carpet Tile

### STEP 3.0

#### Installation of Carpet Tiles Using LokDots

- A second chalk line must be snapped from the starting point at 90° to the first line. This can be accomplished using a 3-4-5, 6-8-10, or larger triangle, depending on the room size. Meters or feet may be used to lay out the triangle in these proportions. (See Figure 2)
- You will install modules using the pyramid technique. This allows for multiple alignment checks. If the edges do not align and the misalignment increases with progression of the installation, the source of the problem must be identified and corrected. (See Figure 3)
- StaticSmart carpet tiles are offered in 24" square. They have directional arrows on the back of the tile. This facilitates the installation method which is based on the requirements of the product, or the preference of the customer.
- Apply LokDots adhesive tabs to the back of each tile in the pattern shown in Figure 4. We recommend starting approx 2" from the edge of the tile and moving down the tile perpendicular to the directional arrows. We recommend applying adhesive tabs in a series of 3 tabs in each corner, and in the middle for 24" tiles for an average of 15 per tile. (See Figure 4)
- Slide modules into position to prevent yarn from being trapped between the modules. Trapped yarn will adversely affect the appearance of the installation and will cause alignment problems.
- Modules must fit snugly, but not be compressed. Press the entire surface of the tile to ensure adhesion. Check for fit by measuring the length of ten full modules after installation. The measurement must not be less than, or exceed by more than 1/4 inch, the length of the modules being multiplied by ten. For example: if 24" X 24" modules are being installed, the measurement should be between 240 and 240 1/4 inches.

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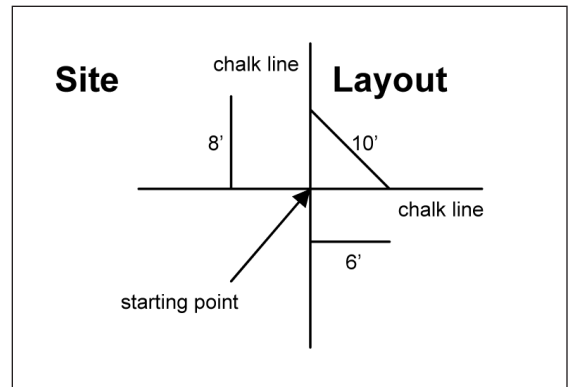


Figure 2: Modular Tile Installation Setup

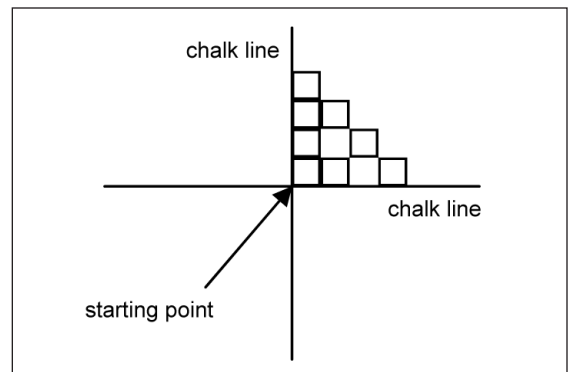


Figure 3: Pyramid Installation Method

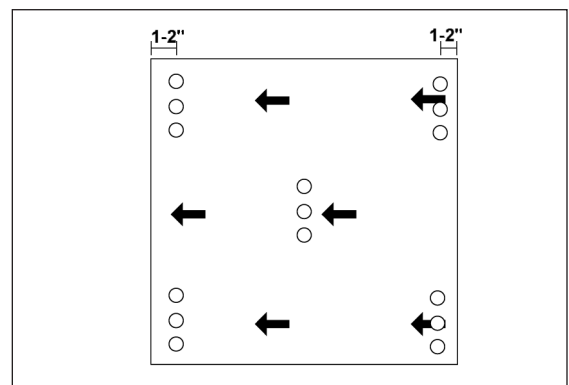


Figure 4: Recommended LokDots Application

## Smart Ground and LokDots™ Installation Instructions for StaticSmart™ Carpet Tile

### STEP 3.0

#### Installation of Carpet Tiles Using LokDots

- Note: It is important that at least two edges of each StaticSmart carpet tile are making contact with the SmartGround tape during the carpet tile installation, this will ensure proper contact and full grounding. (See Figure 5)
- **Pressure sensitive adhesive. It is very important to roll the entire installation with a 75 lb or greater roller to assure the proper adhesion of LokDots to the substrate.**

*Directional arrows are featured on the back of the tile. Numbers within the arrows are for manufacturing purposes and are not related to installation.*

#### FLATWIRE CABLE SYSTEMS

Flatwire cable systems must be centered under the modular tiles for better seam quality.

#### Cutting Techniques

- A performance feature of LokDots is its ability to secure the perimeter and any cut tiles in the installation. For ease of installation to secure the perimeter, LokDots may be applied to the floor to facilitate cutting the tile from the face side. We recommend properly securing the perimeter as well as field cuts as this prevents shifting over the life of the installation.
- Modules may be cut by measuring and cutting from the back using a straight edge. Care must be taken to assure the arrows are pointing in the correct direction. Once cut, dots may be applied to the trimmed module then put into place.
- Modules may also be cut by letting them cove up the wall and cutting with a cushion back wall trimmer or similar tool.

#### DO NOT COMPRESS!

- Once the installation is complete, it is recommended to test the flooring installation to ensure compliance with current electrical resistance requirements and standards.

Julie Industries is committed to providing the highest quality static control flooring solutions available today. We are continually working toward improving our products and services to better serve our customers needs. If you need product or technical assistance, please feel free to contact a Julie Industries representative at email: [info@julieind.com](mailto:info@julieind.com) or phone 978-276-0820.

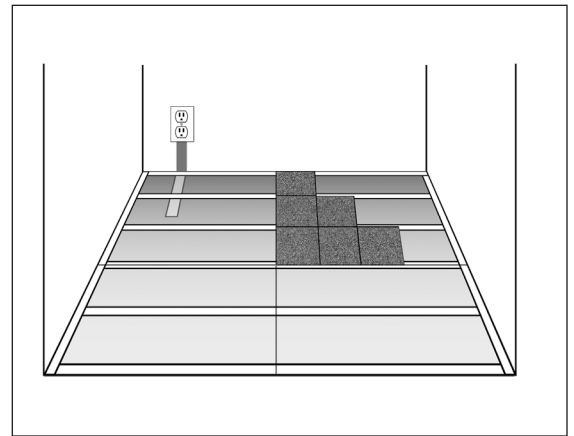


Figure 5: Proper SmartGround and Carpet Tile Installation