

# Installation Instructions for Statguard® Static Dissipative Modular Carpet Tiles



Made in the  
United States of America



## Important Notices:

These Installation Instructions cover most installation procedures. If you run across a situation that isn't addressed in this document or requires more detailed assistance please contact Statguard® Flooring at (781) 821-8370.

All Statguard® Static Dissipative Modular Carpet Tiles should be carefully inspected for damage or defects prior to installation. Statguard® Flooring will not be responsible for any cost associated with replacement or repair as a result of damaged or defective tiles being installed when said damage or defects were identifiable prior to installation. Make sure that additional tiles or attic stock is set aside.

If you encounter any conditions or defects during installation that could jeopardize the installation or affect the installation procedure, you should STOP the installation immediately and call Statguard® Flooring at (781) 821-8370.

See Statguard® Flooring Limited Warranty online at <http://statguard.descoindustries.com/Warranty.aspx>

**DO NOTE: STATGUARD® FLOORING MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSES, AND HEREBY DISCLAIMS THE SAME.**

Without limiting the foregoing, Statguard® Flooring will not be responsible for staining, soiling, contamination, tears, burns, cuts, pulls or other damage, deterioration or loss caused by abuse, misuse, improper installation, improper maintenance or failure to protect carpet tiles during building construction. Statguard® Flooring shall not be responsible for any damage or loss resulting from failure to strictly follow any part of these Installation Instructions, and such failure shall void any and all portions of the Standard Product Warranty that are affected by such failure.

## WARNING:

IN THE EVENT THAT ANY ASBESTOS-CONTAINING MATERIALS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED DURING INSTALLATION, YOU SHOULD STOP THE INSTALLATION IMMEDIATELY AND OBTAIN ASSISTANCE FROM A QUALIFIED REMEDIATION CONSULTANT OR CONTRACTOR PRIOR TO PROCEEDING.

## Pre-Installation Visit:

New concrete needs at least 90 days to dry under ideal conditions. Lightweight concrete and concrete poured above grade in metal pans take a considerably longer time to dry. Installation cannot begin until it is fully dried and in compliance with moisture and alkalinity requirements.

The temperature of your job site must stay within 60°F (15.5°C) and 85°F (29.5°C) 48 - 72 hours prior to, during, and 48 - 72 hours after installation so be sure the heating and air conditioning system is operating. All carpet tiles must be removed from the cartons and allowed to adjust to the job site temperature for 48 hours prior to installation.

## SUBFLOOR PREPARATION:

### Installing over concrete:

All concrete floors must comply with moisture and alkalinity requirements prior to proceeding with installation. (See "Moisture and Alkalinity Test" above.) Level the floor to the standards outlined in the American Concrete

Institute specifications for Concrete Building ACI 301 in regards to troweled finish and finishing tolerances. Leveling compounds must be Portland-based cement.

Level Patch cracks and holes with one of the following approved patching compounds: Ardex Feather Finish, Ardex K-15, Henry's 547, Armstrong S-184 or similar cement based compound. NOTE: Some patching compounds can be mixed with water while some must be mixed with latex. Follow the manufacturer's specifications and instructions for use.

**NOTE:** Incompatible adhesives, solvent based materials and other contaminants should be removed or encapsulated prior to installation of carpet. Contact Statguard® Flooring at (781) 821-8370.

## Patch, Compound, Sand

### Installing over wood, plywood or particle board:

Repair loose or broken boards. Secure with 8-D cement-coated screw nails. Repair if the majority of the boards are worn or badly cupped, cover with 5/8 inch (1.6 cm) exterior grade AD plywood secured with 8-D cement-coated screw nails spaced 6 inches (15.2 cm) apart. Sand seams smooth.

Plywood, Nail 6" Apart, Sand the finish down to bare wood. Remove dust by sweeping, then wiping with a tack cloth. All wood surfaces should be primed prior to application of an adhesive. Statguard® Flooring recommends XL Brands TriSeal or similar product.

**NOTE:** Incompatible adhesives, solvent based materials and other contaminants should be removed or encapsulated prior to installation of carpet. Contact Statguard® Flooring at (781) 821-8370

## SAND, BARRIER COAT

### Installing over vinyl tile, sheet vinyl or natural materials:

**WARNING:** EXISTING FLOOR COVERING MAY CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS. IN THE EVENT ASBESTOS-CONTAINING MATERIALS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, YOU SHOULD STOP THE INSTALLATION IMMEDIATELY AND OBTAIN ASSISTANCE FROM A QUALIFIED REMEDIATION CONSULTANT OR CONTRACTOR PRIOR TO PROCEEDING.

Use an appropriate stripper or a sander to remove the wax top coat. Sand, Remove, Replace, Remove any damaged or loose vinyl tiles and replace with comparable thickness tile or patching compound. Remove sheet vinyl with a scraper. Do not install over sheet vinyl. Any existing adhesive remaining on subfloor should be removed by grinding/scraping and residue encapsulated.

**Note: ESD Flooring requires Special Installation including using Conductive Adhesive and Ground Strips**

#### Installation Sequence:

- Subfloor preparation
- Subfloor moisture & alkalinity tests
- Chalk - snap a line
- Install ground strips
- Conductive adhesive application
- Tile Installation

**Remove:**

For natural materials such as granolithic, terrazzo, marble, ceramic tile, etc. breakout and remove all material or replace damaged areas with substitute material of the same thickness. Replace, Remove Patch and fill cracks and irregularities, including grout lines, with one of the following approved patching compounds: Ardex Feather Finish, Ardex K-15, Henry's 547, Armstrong S-184 or similar cement based compound.

**Sand:**

Sand the top surface to remove glaze. Remove dust by sweeping then wiping with a tack cloth. All porous surfaces should be primed prior to application of an adhesive. Interface recommends XL Brands TriSeal or similar product. Barrier Coat

**Installing over raised floors**

Patch or replace any damaged floor panel inserts. Panels should be free of any dirt, grease, oil, paint, sealer, adhesive or other materials from floor.

**SUBFLOOR MOISTURE AND ALKALINITY TESTS:**

All adhesives, coatings, finishes, dirt, curing compounds, sealant and other substances that may affect the rate of moisture dissipation must be removed from the area to be tested. Non-chemical methods, such as abrasive cleaning or bead blasting may be used on existing slabs to achieve an appropriate state for testing.

Before installing Statguard® Static Dissipative Modular Carpet Tiles over a new or existing concrete subfloor, you must test the moisture and alkalinity levels of the concrete. Moisture conditions of the concrete should be determined by use of the in Situ Probe rH test method (ASTM F 2170). Moisture conditions must not exceed 75% rH. Although not as accurate, moisture emission rates can be tested using the Calcium Chloride test method (ASTM F 1869). When using this method, the emission rates must not exceed 3.0lbs/1000sf/24hrs. For warranty purposes, any time an issue related to moisture occurs; the Situ Probe rH test method supersedes the Calcium Chloride method for determining moisture conditions of the concrete.

**NOTE:** Results obtained by these methods reflect only the conditions of the concrete at the time of testing. If the concrete moisture exceeds these limitations, do not proceed with the installation. Call the Statguard® Flooring at (781) 821-8370.

Stated moisture and pH limitation must be maintained for the life of the installation to avoid installation and product failures and to preserve warranty coverage.

**NOTE:** The required pre-installation moisture and alkalinity tests should be performed to ASTM standards. Per CRI guidelines it is recommended that these tests be performed by a qualified independent testing consultant. Statguard® Flooring will not be responsible for failures, problems, or damage arising from high moisture, high alkalinity, or other subfloor conditions.

**NOTE:** New or bare concrete is defined as concrete free of adhesive residue, paint, sealers, primers and other applied materials.

All concrete floors, old and new, should be tested for alkalinity by using an alkalinity test kit. The pH test papers should be capable of measuring a range of 0 - 14. The area to be tested must be weather-tight and conditioned, via the building's HVAC system, to a temperature range of 65° - 85° Fahrenheit and a relative humidity range of 40% - 60%. This temperature and humidity range must be maintained for at least 48 hours immediately prior to commencing the test, and at all times during the test.

Once this criteria has been met:

1. Abrade the surface by scratching into the clean slab a minimum of 1/32" but no more than 1/8".
2. Apply a small amount (approx. 1" in diameter) of de-ionized or distilled water.

3. Allow the de-ionized/distilled water to stand for 60 seconds.
4. Dip the 0-14 pH test strip into the puddle and remove immediately.
5. Compare to the test kits associated pH chart to determine the pH.
6. At least one pH test must be performed for every 1,000 square feet of space.

The slab should have an alkalinity level between 5.0 - 9.0 to be suitable for carpet installation. Should the pH level be outside of this range, STOP and DO NOT proceed with installation. Call Statguard® Flooring at (781) 821-8370.

**Product Inspection:**

**INSPECT CARPET TILES TO BE SURE THEY MEET THE ORDER SPECIFICATIONS. IF THE WRONG PRODUCT OR COLOR IS INSTALLED, Statguard® Flooring WILL NOT BE RESPONSIBLE FOR CORRECTING THE PROBLEM.**

The labels on each carton indicate product style, pattern, color, run number and dye lot. Be sure the style, pattern and color match the specifications for each area of your installation. On larger installations, you may find that some cartons have different run numbers and/or dye lots. To avoid subtle variations in the finished installation, do not mix run numbers or dye lots in the same area. Check to confirm that you have the right quantity and correct installation method. Be sure you also have enough extra tiles to establish an "attic stock" for future replacements. Open all cartons to inspect for damaged or defective tiles. If you find any, call Statguard® Flooring at (781) 821-8370.

**Lighting:**

The lighting to be used by the building occupants must be in service for proper inspection of color and joints.

**INSTALLATION OF CARPET TILES SHOULD BE THE LAST ITEM ON THE CONSTRUCTION SCHEDULE. CAREFULLY CONSIDER THE RISKS IF YOU ARE ASKED TO INSTALL CARPET TILES TOO EARLY. IF CARPET TILES ARE INSTALLED BEFORE CONSTRUCTION IS COMPLETE, ANY STAINING, SOILING OR DAMAGE CAUSED BY OTHER TRADES WILL VOID THE PRODUCT WARRANTY.**

**Quarter-Turn Installation, Monolithic Installation**

Statguard® Static Dissipative Modular Solid Carpet Tiles are designed to be installed in parquet pattern. In this case, the arrows should be turned 90 degrees every other tile. Follow the Arrows

**Non Directional Installation, Ashlar Installation**

Statguard® Static Dissipative Modular Pattern Carpet Tiles are Non-Directional and are designed to be installed in a non-directional pattern. This pattern allows installation of tiles without regard to arrow direction.

**Tools:**

Proper installation requires tools on the following checklist.

- English/Metric Steel measuring tape
- Vacuum
- Hammer
- White / Red / Blue chalk line
- Scraper
- Carpet knife
- Steel straight edge
- Carpenter's square

**Note: ESD Flooring requires Special Installation including using Conductive Adhesive and Ground Strips**

**Installation Sequence:**

- Subfloor preparation
- Subfloor moisture & alkalinity tests
- Chalk - snap a line
- Install ground strips
- Conductive adhesive application
- Tile Installation

- Broom
- Sander
- Statguard® 81327 Conductive Clear Adhesive
- Statguard® 81524 Copper Foil Grounding Strip

**NOTE: STATGUARD® FLOORING ASSUMES NO LIABILITY FOR ISSUES RELATED TO OR RESULTING FROM INSTALLING OUT OF SPECIFICATION, INCLUDING, BUT NOT LIMITED TO, RECOMMENDED INSTALLATION METHOD.**

**ESTABLISHING THE STARTING POINT - CHALK - SNAP A LINE**

1. Measure to determine the center point and mark. Snap a chalk line.
2. Measure 8 feet (243.5 cm) out from your center point along the chalk line.
3. Make a mark, Measure
4. Measure 6 feet (182.9 cm) from your center point at a right angle to your chalk line and make a mark.
5. Measure
6. Measure the distance between your marks. It should be exactly 10 feet (304.8 cm). If it is, your quadrants will be square. Snap a chalk line here.

**NOTE:** If the room is too small for the above measurements, reduce them by half. Measure 4 feet (121.9 cm) vertically and 3 feet (91.4 cm) horizontally. In this case, the measurement between your two marks should be exactly 5 feet (152.4 cm).

**Determine if center lines need to be offset**

*Dry fit (without adhesive) a row of tiles along the entire length of your vertical and horizontal center lines. Go all the way to the walls. If necessary, offset either or both center lines to ensure perimeter tiles will be cut no less than half size, or 9.84 inches (25 cm).*



**INSTALL GROUND STRIPS**

Statguard® recommends installing one copper foil grounding strip per 1,000 square feet throughout the installation. A thin coating of releasable adhesive should be applied on top of ground strip to ensure good contact with carpet tile backing.

**CONDUCTIVE ADHESIVE INSTALLATION - APPLICATION:**

Apply using a 1/16" x 1/16" x 1/16" square notch trowel. Adhesive must be full spread to achieve complete coverage. **DO NOT USE A ROLLER TO SPREAD ADHESIVE.** Allow adhesive to dry to touch before putting tile in place, approximately 45-60 minutes, then roll out using a 100 pound three section roller. From the time the adhesive is allowed to dry to the time that it must be covered is approximately 3 hours.

*Application Note: Before, during, and 48 hours after installation, a temperature of 70± 5°F must be maintained.*

**Application Directions:**

1. Consult Statguard® floor material installation instructions. Refer to all manufacturers' recommendations prior to installation to determine suitability of all materials to be used, approved substrates, sub-floor preparation, etc.
2. Sub-floor must be clean, dry, smooth and free of any contamination including sealers, which may interfere with the adhesive bond.
3. Where sub-floor is extremely porous adhesive absorption may be in question, therefore it is recommended that the sub-floor be primed with a compatible primer.
4. Refer to all floor-covering manufacturers' recommendations regarding layout, cutting, seaming and maintenance.
5. Spread adhesive using the recommended trowel. Use the dry installation method in "tile over tile" applications and for installations

- requiring releasability. If carpet tiles are installed "wet," a permanent bond may result.
6. Roll floor covering per manufacturers' recommendations.
  7. Do not wet clean floor covering for a minimum of 60 days. This will allow the adhesive to properly cure.

**Adhesive Coverage:**

180 - 250 sq. ft. per gallon with a 1/16" x 1/16" x 1/16" square notch trowel. Coverage will vary based on the porosity of the sub-floor.

For raised floor systems a full spread of adhesive is required. Spread Rate: 360 - 405 sq.ft. per gallon

**NOTE:** A full spread of conductive adhesive must be applied under every cut tile and any adjoining tile to the cut tile. Full spread is also required in any area that will be exposed to high foot traffic and/or heavy rolling traffic.

Apply Conductive Adhesive Along Base Lines

Apply Conductive Adhesive Along Room Perimeters

Full Conductive Adhesive under Cut Tiles and Adjoining Tiles

**Conductive Adhesive in special situations**

**FLATWIRE**

Never apply Conductive adhesive directly over flatwire. The flatwire may be damaged if the tiles need to be removed.

**UNEVEN AREAS**

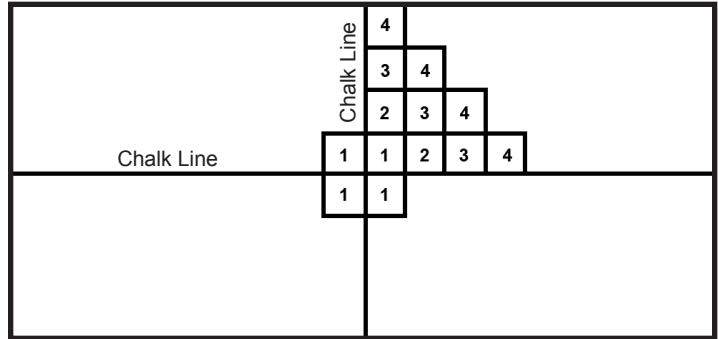
Any surface that cannot be leveled may require Conductive adhesive or double-sided tape to hold a tile in place.

**TILE INSTALLATION - LAYING TILES**

Follow the center lines closely. In smaller rooms, your anchor rows may consist of fewer than 11 tiles. Lay an anchor row of 10 additional tiles (11 including the one you've already placed) aligned with the center line. Measure your anchor rows.

**Tip into place**

Don't position tiles by sliding them across the Conductive adhesive. This



will cause the corner to bend under. Instead, brush the pile back with one hand, then tip a corner of the tile into place. Position the rest of the tile once the corner is properly aligned. Do not catch the pile in the joints. **DON'T Slide Tip In Lay tiles in step or pyramid pattern ABABCDABCD**

**Note: ESD Flooring requires Special Installation including using Conductive Adhesive and Ground Strips**

**Installation Sequence:**

- Subfloor preparation
- Subfloor moisture & alkalinity tests
- Chalk - snap a line
- Install ground strips
- Conductive adhesive application
- Tile Installation

1. Lay two tiles vertically, and check that they are square to the anchor rows.
2. Lay two tiles horizontally, and check that they are square to the anchor rows.
3. Lay one tile to complete the step.
4. Follow the ABCD pattern laid out here until you reach the end of your anchor rows. Repeat laying anchor rows and ABCD patterns in all quadrants until complete.

### CUTTING TILES

#### Guidelines for cutting tiles

Tiles adjacent to fixtures, architectural elements and walls need to be cut and installed exercising great care.

#### Follow these guidelines:

- If practical, remove the base molding before installing perimeter tiles. Replace molding when finished.
- Replace blades often. Sharp blades make cutting quicker, easier and more precise.
- Never use other tiles as a cutting surface. Place tiles on layers of cardboard before cutting.
- Always secure cut tiles with Conductive adhesive.

### Floor Outlets - Flatwire

Floor outlets are usually wired after carpet tiles have been installed. Consequently, you should install directly over floor outlets and mark the location with tape. This way, it will be easy to see which tiles need to be lifted for cutouts later. Tile layout should allow flatwire to be centered under a row of tile.

### Trench Headers - Raised Floors

Tile layout should allow trench headers to be centered under a row of tile. Secure the tiles on either side of trench headers with Conductive adhesive. This will prevent the installation from shifting while servicing trench headers. Raised floor panels are susceptible to subtle flexing. To ensure uniform appearance, avoid matching raised floor seams with tile joints.

**NOTE:** Some patching compounds can be mixed with water while some must be mixed with latex. Follow the manufacturer's specification and instructions for use.

#### Clean Up:

Remove wet adhesive immediately with a damp cloth. Use mineral spirits to remove dried adhesive.

### PREPARING FOR OCCUPATION

#### Final Inspection and Vacuum

Inspect the entire installation, paying close attention to joints and any tiles that have been cut.

Vacuum the floor with a pile lifter. If you don't have a pile lifter, use an upright vacuum cleaner.

### Integrity Testing

At initial installation, and quarterly, ESD protective floor including those of Statguard® ESD Modular Carpets should be tested verifying resistance to ground (Rtg) of less than  $1 \times 10^9$  ohms by a [Desco Surface Resistance Meter Test Kit 19787](#).



### Follow CRI installation standards

*In addition to the specific floor preparation and installation instructions detailed here, the Carpet and Rug Institute's Carpet Installation Standard must be followed. Please note that many of the Statguard® Flooring installation requirements may exceed or differ from those in the CRI Standard. In the event of conflict between the Statguard® Flooring Installation Instructions and the CRI Standard, you should follow the Statguard® Flooring Installation Instructions.*

### Limited Warranty

Statguard® Flooring expressly warrants that for a period of one (1) year from the date of purchase, Statguard® Flooring products will be free of defects in material (parts) and workmanship (labor). Within the warranty period, a unit will be tested, repaired or replaced at Statguard® Flooring's option, free of charge. Call our Customer Service Department at (781) 821-5609 (Canton, MA) for a Return Material Authorization (RMA) and proper shipping instructions and address. Please include a copy of your original packing slip, invoice, or other proof of date of purchase. Any unit under warranty should be shipped prepaid to the Statguard® Flooring factory. Warranty replacements will take approximately two weeks. If your unit is out of warranty, call our Customer Service Department at (781) 821-5609 (Canton, MA) for a Return Material Authorization (RMA) and proper shipping instructions and address. Statguard® Flooring will quote repair charges necessary to bring your unit up to factory standards.

### Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

### Limit of Liability

In no event will Desco Industries Inc. or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.

### Note: ESD Flooring requires Special Installation including using Conductive Adhesive and Ground Strips

#### Installation Sequence:

- Subfloor preparation
- Subfloor moisture & alkalinity tests
- Chalk - snap a line
- Install ground strips
- Conductive adhesive application
- Tile Installation