

## RhinoStat Modular Interlocking Floor System Installation

The RhinoStat Modular Interlocking Floor System is recommended for use in areas where standing is required and ESD, safety and comfort are a must. They can be used as floor runners or can be installed to cover an entire workstation or department. The floor pieces are an interlocking design, each piece having (5) locking lugs that effectively lock to one another. The flooring system should be installed on a hard surface that has first been prepared to the required levels. The flooring pieces are always laid with the lugs away from the installer so that each mat is overlaying the other. The flooring pieces are easily cut to suit site dimensions with a sharp saw or jigsaw. Each flooring piece should have a 5/16" gap around fixed objects and edges to allow for expansion and contraction. For additional security, the lugs can be glued using an approved Ground Zero cement. Ramp tiles that clip to the edge of the mat are available upon request and can be used for securing the mats through fixed holes provided. The material is heavy enough to lay flat without the need for adhesive or anchoring and conforms well to curved surfaces without breakage or shifting. The excellent uniform conductivity lends itself well to CMOS handling where low breakdown voltage problems are encountered from minute short duration static charging.

### Installing Ground Cords to the RhinoStat Floor System:

There are several methods of installing ground cords. Ground Zero Electrostatics, Inc. recommends a "push and clinch" stud (see figure 1.) This type of snap is designed for use on soft type mats such as Ergo, Comfort, and Carpet Modular Interlocking Anti-Fatigue Flooring and is available from Ground Zero Electrostatics, Inc. Use Part Number: HW101-E

Figure 1.



To install center the prongs as required and apply pressure to the snap until the prongs come through the back of the mat, then clinch over the prongs to secure the snap.

There are a variety of ground cords available to fit the stud in Fig. 1, however we recommend Part Number: FMGE-1-15-M. This cord (see figure 2.) is installed by snapping into the 10mm snap and hard fixing to the common point ground as previously described.

**The Purpose of an ESD protective floor mat is to provide an ESD conductive or dissipative material to:**

- A. Remove from the operator any static charge.
- B. Provide an anti-fatigue surface that will not generate a Static Charge.

RhinoStat "Comfort" and "Ergo" floor tiles have a surface resistivity of at least  $1 \times 10^5$  but less than  $1 \times 10^9$  ohms / square. Conductive and Dissipative materials minimize the generation of static charges, and will dissipate a charge slow enough that a spark will not occur.

#### General Guide Lines:

For Proper and safe grounding an ESD ground must be tied directly to and at the same potential as the building or "green wire" ground and the floor tile, using a grounding stud and a grounding cord with a 1Meg current limiting resistor installed.

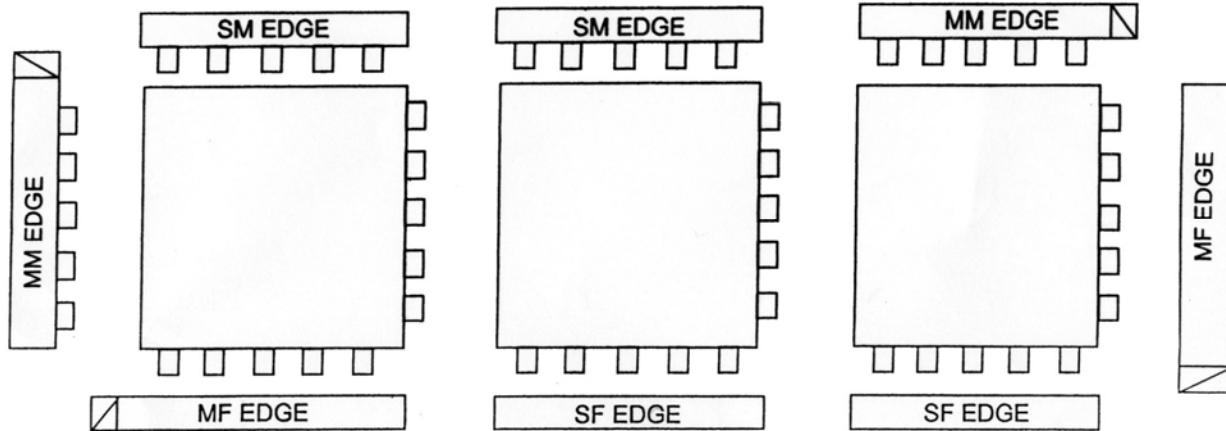
#### Groundable Point Installation:

- A. If the Tile run is less than 500 square feet (2) grounding points will be adequate.
- B. If the Tile run is greater than 500 square feet (1) grounding point every 500 square feet should be installed.
- C. If the Tile is used as a mat runner versus full surface, (1) grounding point every 10 L/ft is required

Figure 2.



**Installation Instructions  
for the RhinoStat Range of Industrial Safety Tiles – Free Standing**



**KEY:** Tiles – 500 mm x 500 mm (4 per m<sup>2</sup>)

Edges – SM = Side Male      SF = Side Female  
(500mm x 100mm)      (500mm x 100mm)

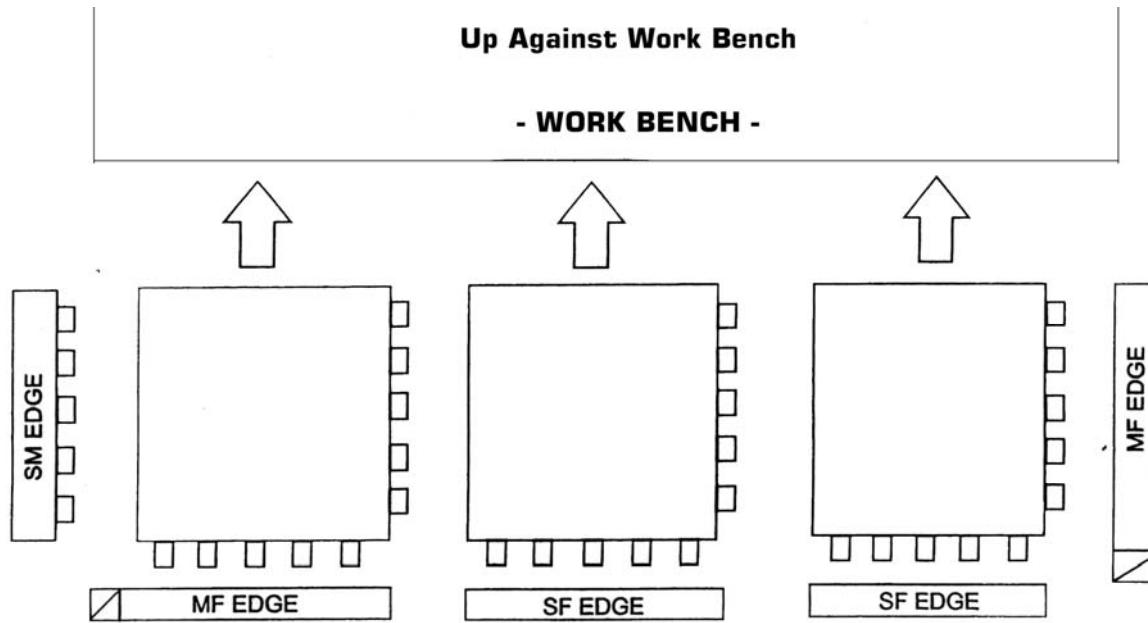
MF = Mitred Female  
(600mm x 100mm)

MM = Mitred Male  
(600mm x 100mm)

**NOTE:** Join tiles together from left to right then lock edge ramps onto front and ends.

For easier fitting, brush lugs with a little detergent or oil prior to joining.

**Installation Instructions  
for the RhinoStat Range of Industrial Safety Tiles  
- Up Against Work Bench**



**KEY:** Tiles – 500 mm x 500 mm (4 per m<sup>2</sup>)

Edges – SM = Side Male  
(500mm x 100mm)

SF = Side Female  
(500mm x 100mm)

MF = Mitred Female  
(600mm x 100mm)

**NOTE:** Butt tiles up to work bench with lugs facing out and to the right. Join tiles together from left to right then lock edge ramps onto front and ends. For easier fitting, brush lugs with a little detergent or oil prior to joining.



## RhinoStat Modular Interlocking Floor System Installation & Maintenance

### **Cleaning Recommendations:**

RhinoStat Modular Interlocking Floor pieces must be cleaned with a non-film forming neutral cleaner designed for use on Rubber and PVC materials. Use of inappropriate cleaners (especially solvent based cleaners) may cause material degradation and loss of the modular floors excellent electrically static conductive properties. It's important to begin a regular cleaning regimen (designed around the conditions your facility encounters) shortly after installation of the flooring system. Due to the materials anti-fatigue, corrugated surface texturing, mud and dust entrapment can become a problem if areas adjacent to the installed matting are not kept clean. Adjacent areas must be maintained in a relatively dust and mud free fashion and free of contaminants (such as oils and solvents) that could potentially be picked up by employees shoes and tracked upon the modular flooring system. To remove dust and dirt from the modular flooring our recommendations are to sweep flooring in a regular basis with a soft bristled push broom. Harder to remove soiling may be removed by using a dilution of Ground Zero Mat static dissipating mat cleaner. This liquid is designed to be diluted, however for heavy duty cleaning, use full strength. Pour ZS Mat (full strength) into clean mop bucket, immerse a clean cotton mop into solution, wring out excess and damp mop modular flooring system. Allow to dry.

#### **The following general recommendations are recommended:**

- Keep areas adjacent to modular flooring system soil free and free of "trackable" residues.
- Remove loose soil and abrasives from modular floor with soft push broom on a daily basis.
- Remove entrapped soiling via ZS Mat Cleaner
- Allow flooring system to adequately dry prior to use