

ESD X Joint Installation Guidelines

PRODUCTS REQUIRED



Earth Bonding Plug



Conductive Grounding Tape



Grounding Cord
(1 Megohm Resistor)



ESD X Joint Tile with Grounding Stud

TOOLS REQUIRED



Metal 1m Ruler



Chalk Line
(optional)



Rubber Mallet

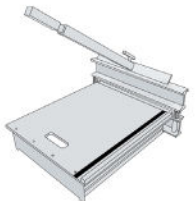
CUTTING TOOLS (Choice)



Concave Blade
(Utility Knife)



Jigsaw/Bandsaw
Medium Blade



Guillotine
Available for Hire

BEFORE YOU START

Heat Expansion

Tiles can expand and contract with changes in temperature. Areas of tile that are exposed to a heat source* may expand causing tiles to lift. Please contact us for further advice regarding ESD tiles and heat expansion.

***Heat sources include but not limited to:** Direct sunlight (for example south facing shutters), ovens, furnaces, catalytic converters.

Heavy Trucks and/or Tight Turning Circles

Heavy vehicles are rarely used in ESD areas, but if you do plan to use them please read the following information:

Some vehicle designs present problems for the tiles for example heavy trucks with small wheels or electric trucks with a battery located over the drive wheel. We strongly advise you to test the tiles with these types of vehicles or contact us if you have any concerns.

Important - If the existing floor/substrate has already been grounded it may be necessary to lay an insulative barrier under the tiles. If in doubt, please contact us for further advice.

Surface Marks & ESD Fibres

The method of manufacture may result in a surface mark being visible on the tile at the injection moulding point (centre) and around the edge of the tile.

Please check the tiles before installation. If any markings are unacceptable, do not continue with installation as we will not accept responsibility for replacing or refunding the cost of any goods after 10m² or more have been installed.

These ESD tiles contain steel fibres that may be visible on the surface of the tile.

Due to having completely different joint designs, the X joint ESD tile cannot connect to the standard tile range.

Staining From Rubber Tyres

It is possible for tyres and wheels to stain the tiles. This is caused by a chemical reaction between the anti-oxidant used in some rubbers and the plasticizer used in vinyl. Please contact us for further information.

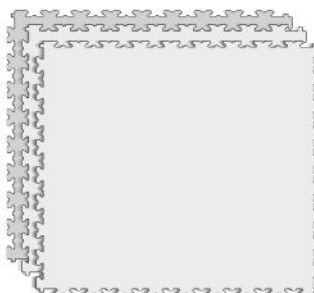
PREPARATION

Allow tiles to acclimatise in the room for 24 hours. The minimum installation temperature is 15°C. If time is short, we recommend you split the tiles into smaller stacks (as seen in step 2) to speed up acclimatisation.

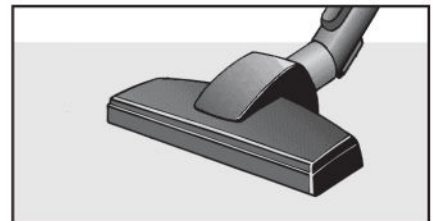
Please Note: We are unable to honour our warranty terms for installations that have taken place at temperatures below 15°C.

If installation **has** to take place at a temperature below 15°C, ensure the tiles acclimatise to the ambient temperature of the room before starting. Leave a larger expansion gap (than the recommended 5mm) between the tiles and any fixed point.

15 °C



Step 1: Sweep or vacuum the floor to remove any loose impediments. Remove any high points in the floor and fill large holes with a suitable floor repair compound.



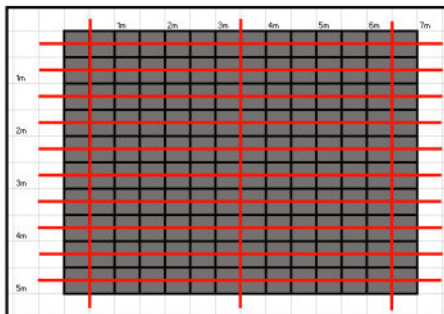
Step 2: Split the pallet into several stacks and place them around the area. They will acclimatise quicker, and will be easier to access during installation.



STARTING OUT

Step 1: It's extremely important that tiles are kept square during installation. Every room has a different starting point. If you can, identify a straight wall or edge to work from. Snap a **straight** chalk or laser line 1-1.5m away from the wall.

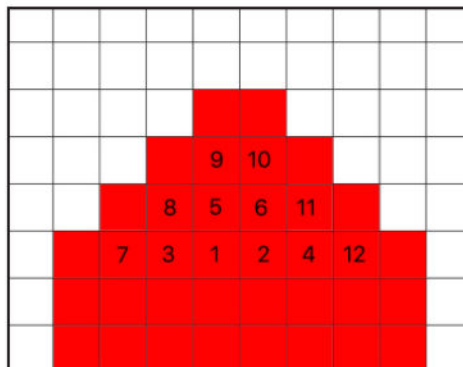
Step 2: Referring to the diagram below, lay the grounding tape horizontally as shown by the red lines. The tape must be laid every 500mm in this direction and should run under the centre of every tile. The tape should also be laid vertically at 3m intervals (preferably underneath the interlocking joints).



Step 3: Begin fitting the tiles together creating a single row of tiles against the line created in Step 1. Shuffle the position of the tiles carefully along the line considering the cuts to be made on either side.

Step 4: Fit two more rows of tiles and shuffle the tiles again ensuring they are as straight as possible against the chalk/laser line.

Step 5: Continue to add tiles forming a pyramid (Refer to the numbering system below).



Step 6: Continue to build the staggered pyramid by adding one full size tile to both ends of every row.

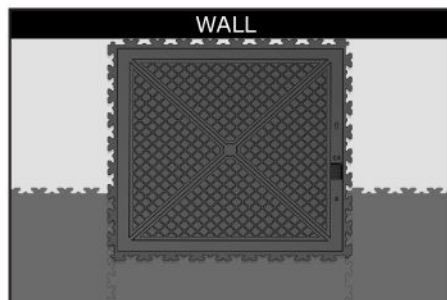
When you can no longer lay any more full sized tiles, cut the remaining tiles to fit using the cutting instructions below.

Step 7: Fit the grounding tiles near the edge of the room and connect the grounding cord and plug to the socket.

A grounding tile should be installed every 60-80m².

CUTTING TILES

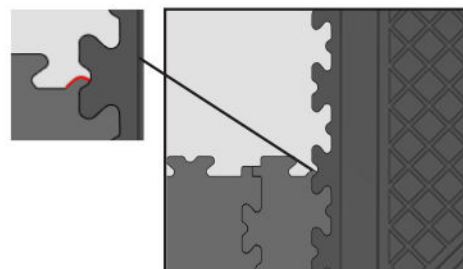
Step 1: To make a cut, turn a tile over and place it on top of an installed tile. Push it against the wall or object as shown below.



Step 4: Join the two marks together with a metal ruler to create a cutting line.

Cut the tile using your preferred method. When the tile is turned over it should fit leaving a 5mm gap between the edge of the tile and the wall.

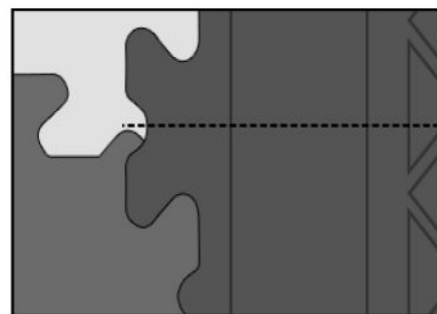
Step 2: Every tile has small **bumps** between each joint. Slide the tile left or right until you see the top of the first bump (on the tile underneath).



Step 5: Continue until you have completed the remaining cuts.

We recommend you finish the edges with caulk and/or skirting boards.

Step 3: Mark the back of the tile where it lines up with the highest point of the bump. Do the same on the other side of the cut (it should already line up with the bump).



FOR THE PERFECT ESD FINISH

- + Leave an expansion gap (minimum of 5mm) between the tiles and any fixed point
- + We highly recommend that you clean the floor immediately after installation to ensure optimum ESD performance.
- + Don't force tiles together - if they don't fit together easily, something is wrong.
- + Undercut wooden doorjamb and slip the tiles underneath.
- + Use ramps to create safe transitions into the room.
- + Glue the tiles if they are exposed to direct sunlight (refer to Page 1 - Heat Expansion)