



# Interlocking ESD Floor Tiles Installation Guide

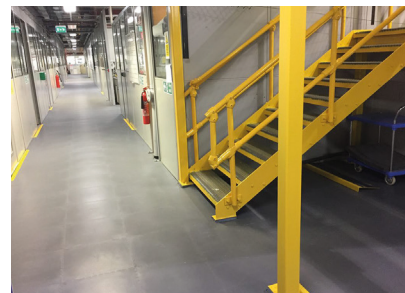


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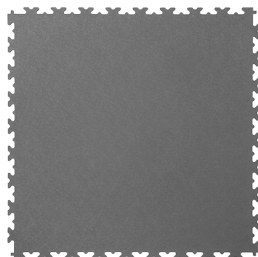
## Our Range



**Grey Tile**  
**Dovetail Joint - 084-0001**  
**X Joint - 084-0020**

**ESD Grounding Kit**  
**Dovetail Joint - 084-0002**  
**X Joint - 084-0022**

**Yellow Pictotile**  
**Dovetail Joint - 084-0003**  
**X Joint - 084-0021**



**Edging Strip**  
**Dovetail Joint - 084-0004**  
**X Joint - 084-0023**

**Corner Strip**  
**Dovetail Joint - 084-0005**  
**X Joint - 084-0024**



## Products Required

All required products can be found in our ESD Grounding Kit (084-0022 for X Joint Style and 084-0002 for Dovetail Joint Style) which includes:

1. Earth Bonding Plug
2. Conductive Grounding Tape
3. Earth Cord with 1M $\Omega$  Resistor
4. ESD Tile with Grounding Stud

(1 kit required per 50m<sup>2</sup> of ESD flooring)



## 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 ESD interlocking floor 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.

### 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 10m<sup>2</sup> or more have been installed.

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 style of ESD Floor Tiles cannot connect to any other range.

### Staining From Rubber Tyres

It is possible for tyres and wheels to stain the tile. 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.

***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.***

### 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.

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

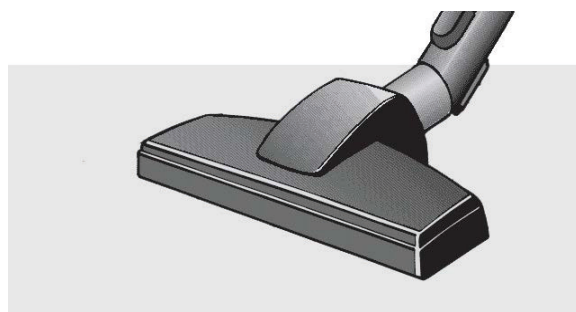
If installation **has** to take place at a temperature below 15°C, ensure the tiles acclimatise to the ambient temperature of the room before starting. Leave a larger expansion gap (than the recommended 5mm) between the tiles and any fixed point.

### Step 1

Sweep or vacuum the floor to remove any loose impediments. Remove any high points in the floor and fill any 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.



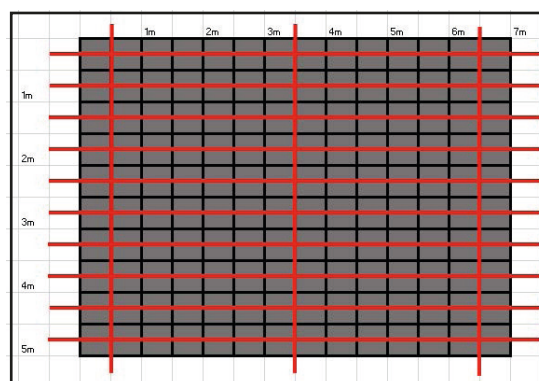
## Starting Out

### 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 to the right, lay the grounding tape as shown by the red lines. The tape must be laid every 500mm in one direction and should run under the centre of the tiles. The tape should also be laid vertically at 3m intervals. Every tile should touch the grounding tape.



### Step 3

Begin fitting the tiles together creating a single row 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 to the right).

### Step 6

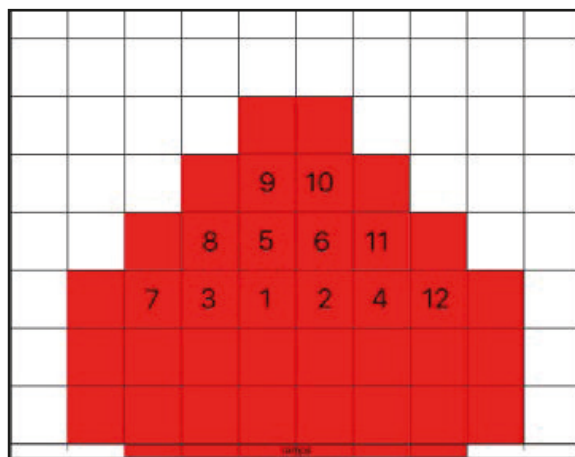
Continue to build the staggered pyramid by adding one full size tile to both ends of every row.

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

### 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 50m<sup>2</sup>.



## Cutting & Finishing

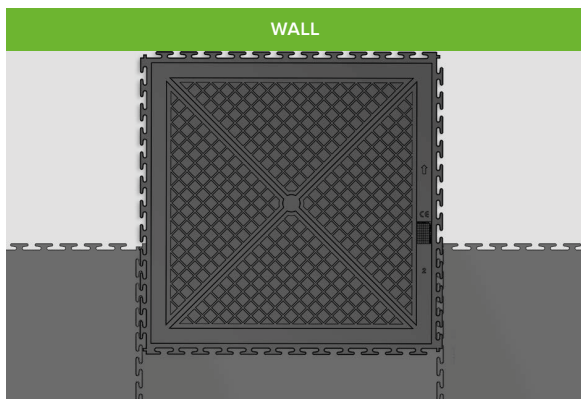
There are two different ways to cut and finish the tiles, depending on the style of tile. Firstly we will look at cutting the Dovetail Joint Style (084-0001 & 084-0003) and then we will look at cutting the X Joint Style (084-0020 & 084-0021).



## Cutting Tiles (Dovetail Joint Style)

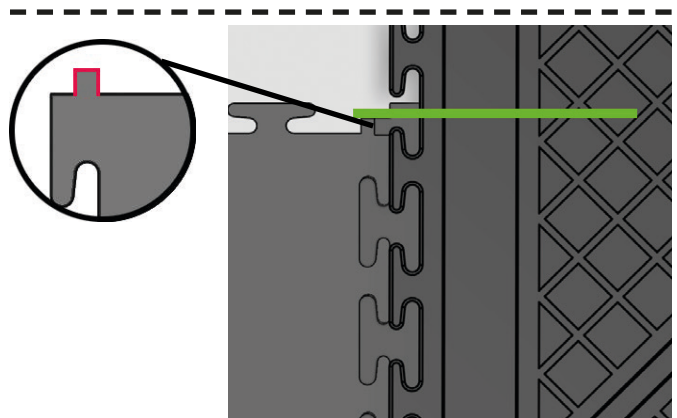
### Step 1

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 2

Every tile has a small **square marker** in each corner. Using the edge of this marker **as a guide**, mark the tile you are cutting with a pen. Do the same on both sides.



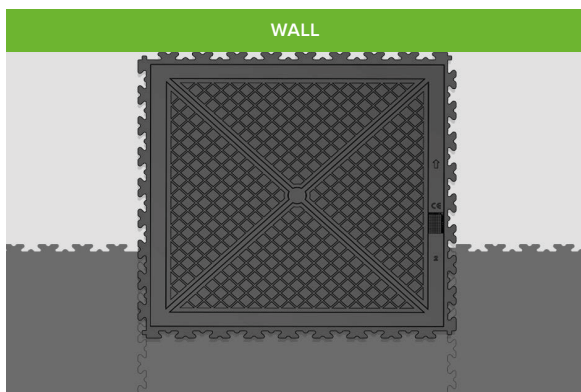
### Step 3

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 flipped, it should fit leaving a 5mm gap between the edge of the tile and the wall. Continue until you have completed the remaining cuts. We recommend you finish the edges with caulk and/or skirting boards.

## Cutting & Finishing (X Joint Style)

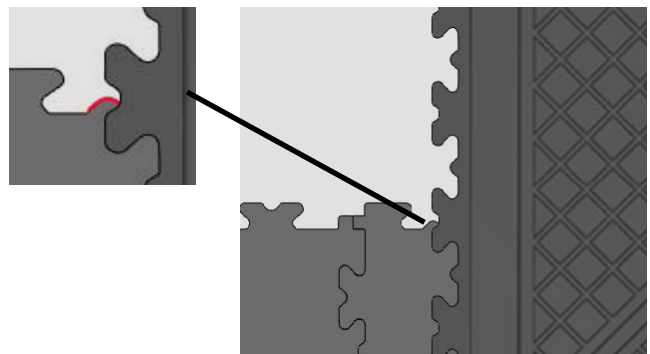
### Step 1

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 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 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).



### 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 5

Continue until you have completed the remaining cuts. We recommend you finish the edges with caulk and/or skirting boards.

### Step 6

Clean the floor thoroughly after installation and before testing ESD performance.

**Note:** If you have any concerns about fitting your floor, please contact us. We also offer fitting services, if required, please contact us for a quote.

### 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 doorjambs 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 4 - Heat Expansion)

### Tools Required

Metal 1M Ruler



Chalk Line  
(Optional)



Rubber Mallet

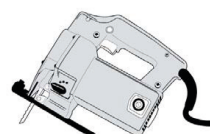


### Cutting Tools (Choice)

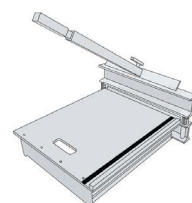
Concave Blade  
(Utility Knife)



Jigsaw/Bandsaw  
Medium Blade



Guillotine



## Why Choose Our Interlocking ESD Floor Tiles

### Benefits

- **GUARANTEED ESD PERFORMANCE** - Guaranteed to meet BS EN 61340-5-1:2001 & IEC 61340 for the life of the product
- **SIMPLE INSTALLATION** - Installation is minimally disruptive to site, just overlap & tap ... no adhesive required
- **SMART MODERN APPEARANCE** - Precision engineered interlocking joints
- **FLEXIBLE** - Place directly over existing & uneven floors ... hides cracks, damage & stains
- **CHEMICALLY RESISTANT** - Resists most chemicals & fluids
- **REDUCES DUST** - Reduces dust by keeping equipment, products & work areas cleaner
- **EXCEPTIONAL DURABILITY** - Resistant to impact, vibration & abrasion
- **SAFE** - Excellent slip-resistance, low risk of slipping even when wet (R10)
- **WARM & QUIET** - Insulates the subfloor from cold & damp & significantly reduces noise
- **FIRE RETARDANT** - Tested to EN ISO 13501-1 Class Bfl s1 & BS 476: Part 7 Class 1
- **REDUCES FATIGUE** - More comfortable to stand & work on
- **BETTER PERFORMANCE** - Longer lasting & easier to maintain than resin coatings, vinyl & carpet.
- **LOWER LIFE CYCLE COST** - Does not require expensive repair & replacement
- **EASY TO MOVE & RE-USE** - Ideal for temporary applications or where access is required to the subfloor
- **VERSATILE** - Use floor marking signs & line marking to identify ESD work areas, gangways & Kanbans.
- **ENVIRONMENTALLY FRIENDLY** - 100% recyclable & zero VOC emissions



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





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Integrity House, Easlea Road,  
Bury St. Edmunds, Suffolk, IP32 7BY UK

UK +44 (0)1473 836 200 | [info@antistat.co.uk](mailto:info@antistat.co.uk) | [www.antistat.co.uk](http://www.antistat.co.uk)

US +1 512-580-4220 | [info@antistat.com](mailto:info@antistat.com) | [www.antistat.com](http://www.antistat.com)

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