

# Harlequin Flexity Plus Sprung Floor

## Permanent installation guide



### A. Preparation of site

In order to avoid any accidental damage, the site where your Harlequin floor is to be installed should be prepared first before any panels are laid. Should further essential work be required then we strongly recommend you protect your sprung and vinyl floor by covering the surface with hardboard or other effective material.



#### A WORD ON SAFETY

- **Use tools in accordance with the manufacturer's instructions.**
- **Use gloves, safety goggles and masks as appropriate.**
- **Work in a well-ventilated space when using adhesives and wear protective footwear.**
- **For comfort, you might want to wear knee-pads.**
- **When cutting panels, work standing using a workbench or trestle.**

### 1. You will require the following tools (these are not supplied by Harlequin)

- Damp-proof membrane, used for dance rooms on the ground or lower floors or floors with humidity problems (if you didn't choose to have this as an option when purchasing your floor)
- Tape measure
- Utility knife
- Gaffer tape
- 10mm spacer blocks (if you didn't choose to have plastazote strip as an option when purchasing your floor)
- Mastic gun
- Hammer or mallet
- Wooden block
- Straight edge – 600mm minimum
- Pencil and paper
- Power saw or hand saw to cut panels to size (Note: the blade must be able to cut a 37mm thick panel)
- Sander and/or sandpaper
- Pry bar
- Set square
- Double-sided tape.

### 2. Supplied by Harlequin

- Harlequin Flexity Plus panels
- Sufficient additional pads for use where necessary (1 x pad per panel)
- Polyurethane adhesive
- Damp-proof membrane (if chosen as an option)
- Sufficient 35mm x 8 gauge wood screws (if one or more ramps were purchased / 12 screws per ramp).

## B. Installation of Harlequin Flexity Plus sprung floor panels



It is critical that the first row is laid accurately.

### 1. Install damp-proof membrane (for locations where needed)

The installation of a damp-proof membrane is strongly recommended for dance studios located on the ground floor, or where high humidity is experienced.

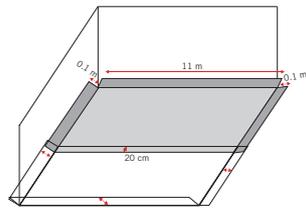
The optional damp-proof membrane is 25m x 4m, supplied folded to a 1m wide roll of 200mm diameter.

Unroll the damp-proof membrane without unfolding and cut the first length plus 100mm on each end. For example – for a room 11m long cut a piece 11.2m long.



#### Example

If your room is 11m x 7.30m, you need to have 11.20m membrane (11m + 0.10m + 0.10m)



Lay the damp-proof membrane onto the sub-floor and unfold it, ensuring there is 100mm along the length and both ends are folded against the wall.

Continue to cut and lay the damp-proof membrane as needed.

Each strip of damp-proof membrane should overlap the others by at least 300mm and be gaffer taped down securely.



Once the installation of Harlequin Flexity Plus panels is completed, the surplus membrane can be trimmed with a utility knife.

### 2. Installing the first row

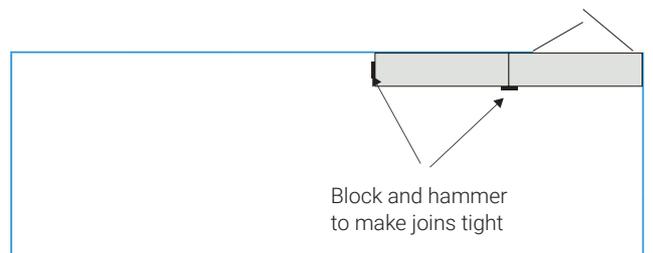
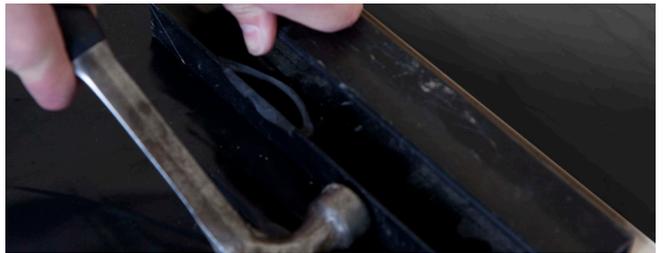
#### a) Installing the first panel

Locate the first Harlequin Flexity Plus panel in the upper right hand corner of the room, ensuring the flat or grooved edge is against the wall on all sides.



Use spacer blocks to fix the panels 10mm from the wall, or fit the optional plastazote strip.

Put polyurethane adhesive on the full width – 1.125m – of the second panel, interlock this panel using the hammer and block and ensure the joint is fitted tightly.



Continue to lay and glue panels until the end of the row.



## b) Installing the last panel of the first row

Measure the gap between the last panel laid and the wall (don't forget to include the 10mm spacer blocks, or the optional plastazote strip).



Cut a panel to this exact size, removing the pads if required and sandpaper any rough edges. Retain the remaining piece of the panel for use as the start of the second row.

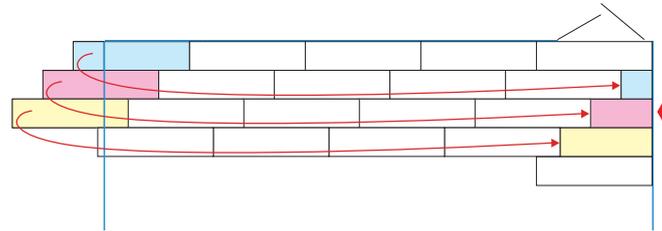


**If you had to remove any pads when cutting your panel and you have been left with a gap that is 60mm or more to the edge, please re-attach the pads using double-sided tape, so that you have full support to the edge of the panel, before fitting the final piece of the last row in place. You will need to do this for every end row or edge panel that you cut and re-fit.**

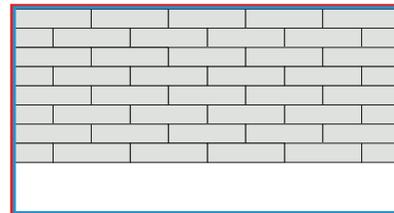
It is important the first row is correctly installed and the edge to meet the second row is aligned straight and the surface level before continuing to achieve a high quality of installation. Pay particular attention to achieve accurate alignment where the wall is not straight.

## 3. Continue laying the other rows

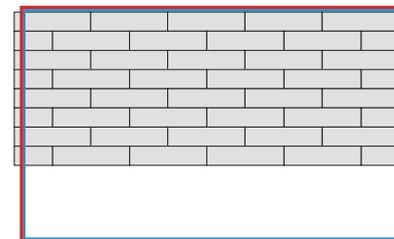
The second row starts with the off cut of the last panel from the first row and this process continues building up a brickwork pattern.



If your room is exactly the same as a row of panels, or the off-cut piece is less than 300mm, then the second row should start using a panel sawn in half.



If the length of your room is a multiple of the length of the Harlequin Flexity Plus panels, cut a new panel in half and start the next row with a half-panel. It is a brickwork installation.



If the cut of the last panel of the first row is too small (less than 300mm), cut a new panel in half and start the next row with this half-panel.

Put 1.125m and 2.250m lines of polyurethane adhesive into the grooves of the first panel of the second row and interlock the panels using a hammer and block to ensure the joint is tight. Once satisfied panels are correctly joined together and there is no space between them (Note: this cannot be rectified later), continue to lay the next panel in the same way.

#### 4. Fitting around room features

Where panels need to fit around building features such as pillars, radiator pipes, etc. it will be necessary to place the panel and carefully mark the shape to be cut.

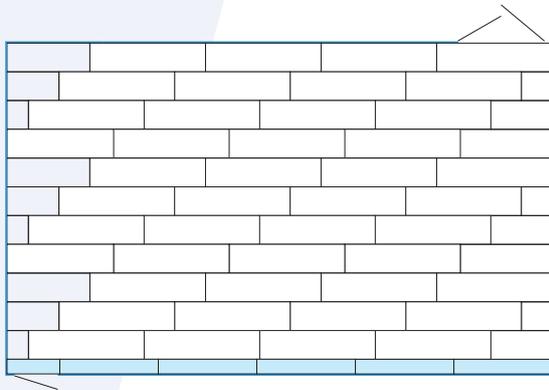
Cut out the shape using the saw and sandpaper the edges. Remove and re-attach pads if required.

#### 5. Installing the last row

The tightness of space may require the use of a pry bar to fit the panels in the final row.

It may also be necessary to cut panels along their length to fit between the next to last row and the 10mm spacer blocks (or optional plastazote strip).

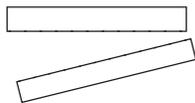
Carefully measure the distance between the last row and the 10mm spacer blocks (or optional plastazote strip), panel by panel, to allow for variations due to variations in the wall.



If the cut off panel is less than 300mm long use a new full panel to start the next row.

Carefully measure the space between the last row and the wall (allow for the 10mm spacer blocks, or optional plastazote strip).

Lay the cut panel with the pry bar.



Cut the panels lengthwise



**If you had to remove any pads when cutting your panels and you have been left with a gap that is 60mm or more to the edge, please re-attach the pads using double-sided tape, so that you have full support to the edge of the panels before fitting them.**

#### 6. Sanding the joints between panels

With all panels laid and the glue dry, any surplus glue on the surface should now be sanded flat.



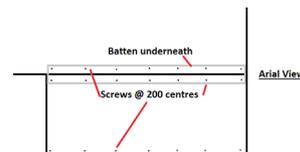
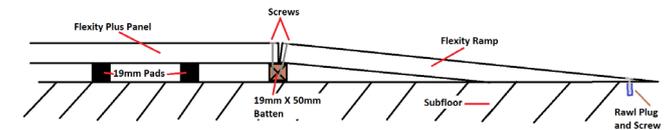
#### 7. Installing ramps

Remove end pads and place 50 x 18 mm timber 25mm under Flexity Plus panel to stop deflection.

Place the ramp on the exposed 25mm of timber just touching the Flexity Plus panel.

Insert screws through the Flexity Plus panel and into the 50 x 18 mm timber to secure at 200mm centres.

Drill and plug screws into the base of the ramp to secure.



#### 8. Cleaning the floor

Before laying the Harlequin vinyl or wood top dance surface the sprung floor panels should be swept and vacuumed clean.

If using a wood surface refer to wood manufacturer guidelines.

If you would like further information, advice and samples please contact us on +44(0) 1892 514 888 or [enquiries@harlequinfloors.com](mailto:enquiries@harlequinfloors.com)



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