



Harlequin Activity™

A fully floating sprung floor for permanent installation

Harlequin Activity is a permanently installed sprung floor system based on the now well-established 'triple sandwich' construction originated by Harlequin over 25 years ago. The fully floating construction is not fixed to the floor or walls, thus minimising noise transmission.

Harlequin Activity is shock-damped to avoid a 'trampoline' effect and provides area and point elasticity to offer identical characteristics across the whole floor. It is an 'industry standard' choice with many hundreds of installations worldwide, effectively reducing injuries to both teachers and performers.

Harlequin Activity has been tested for noise reduction with a variety of Harlequin dance surfaces in accordance with standard BS EN ISO 140-8:1998. The results showed that **Harlequin Activity** achieves significant impact sound reduction.

Harlequin Activity is installed by our own highly-skilled technical team and all work is fully guaranteed. Different surface options include :

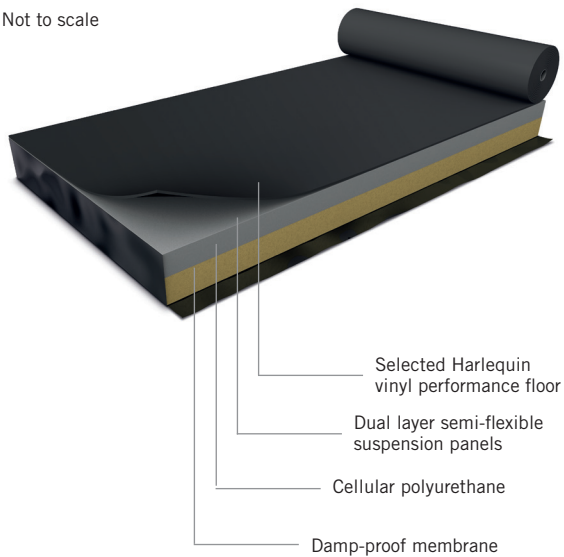
- A Harlequin vinyl performance floor, selected from our range
- Solid hardwood - in beech, oak or maple
- Engineered board with a hardwood wear layer - in beech, oak or maple

If a Harlequin vinyl performance floor is chosen, a colour matched composite edging profile will be installed around the finished edges. If solid hardwood or engineered board is chosen, the skirting will be 'optional'.

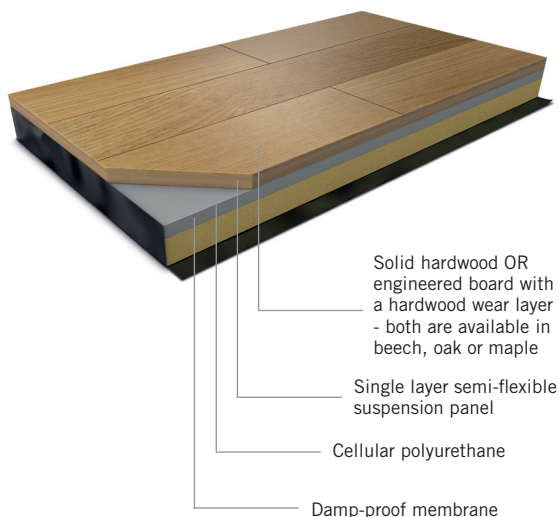
Specification guide

	With vinyl surface	With hardwood surface
Permanent or Portable	Permanent	Permanent
Minimum floor thickness (before inclusion of chosen finish)	46mm (without vinyl surface)	51mm (With hardwood surface)
Minimum floor weight (before inclusion of chosen finish)	17.9kg/m ² (without vinyl surface)	19kg/m ² (With hardwood surface)
Maximum load resistance Battens can be installed under the floor to obtain a load resistance of 1500 kg/m ² when using retractable bleacher seating.		549kg/m ²
Maximum point load In case of heavy rolling loads, use a 10mm plywood track.		366kg/point
Testing standards		DIN 18032-2
Shock absorption (DIN standard minimum requirement is 53%)		59.6%
Vertical deformation (DIN standard minimum requirement is 2,3mm)		3,8mm
Surface deformation (DIN standard maximum requirement is 15%)		7,2 %
Resistance to rolling loads (DIN standard minimum requirement is 1500N)		> 1500N

Not to scale



Not to scale



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Design and construction

The following layers are applied to a smooth, dry concrete sub-floor:



- 1 Cellular polyurethane
- 2 First layer of semi-flexible panels
- 3 Second layer of semi-flexible panels laid at right angles to the first layer in staggered rows
- 4 Harlequin performance surface

- Polymer damp-proof membrane.
- Cellular polyurethane 25mm thick and tested for resilience by Harlequin.
- Layer of semi-flexible panels 12mm thick.
- Second layer of semi-flexible panels 9mm thick installed at right angles and in staggered rows. Only done when a vinyl surface finish is chosen.
- Performance surface 2 or 3mm thick and weighing between 2.3kg/m² and 2.6kg/m², adhered and welded to the surface or engineered board 14mm with 3,6mm hardwood wear layer.
- Maximum overall height is 49mm, including the performance surface and 51mm with a hardwood surface.

Harlequin's sprung floor application guide

In addition to Harlequin Activity, we also produce a small range of other sprung floors, which are listed below

✓ = We recommend.

	Allegro	Cascade	Fiesta	Hi-Shine	Duo	Showfloor	Standfast	Studio	Marine	Freestyle	Solid hardwood	Engineered board
Activity		✓	✓				✓	✓	✓	✓	✓	✓
Liberty (permanent)		✓	✓				✓	✓	✓	✓		
Liberty (portable)		✓		✓	✓	✓		✓		✓		
Vitality		✓	✓		✓		✓	✓	✓	✓	✓	✓
Flexity		✓	✓		✓		✓	✓	✓	✓	✓	✓

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