



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™ 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.

Load-bearing capacity

Maximum static load: 750 kg/m²

Timber blocks can be fitted underneath the panels to raise the load-bearing capacity to 1,500 kg/m² when used with tiered seating.

Charge maximale dynamique: 275 kg/m²

When rolling heavy loads 10 mm plywood panels should be used on the Liberty floor to spread the load.

Special features of Harlequin ACTIVITY™

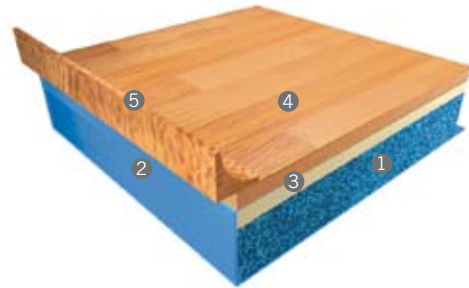
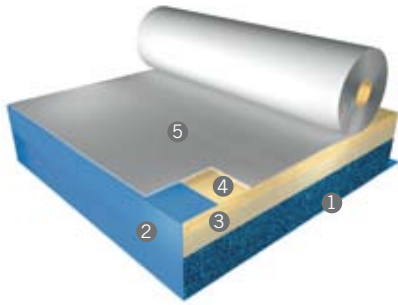
- Uniform performance across the entire floor surface.
- Remarkable acoustic properties: achieves significant impact sound reduction (test results ranging from 22 to 24 dB). A BS EN ISO 140-8:1998 test report is available from Harlequin on request.
- Very good value for money
- Conforms to DIN 18032 standard, part II.

DIN standard 18032-2 test results for Harlequin ACTIVITY™

	Shock absorption	Vertical deformation	Surface deformation	Resistance to rolling loads
Requirements under the standard	Min. 53%	Min. 2,3 mm	Max. 15%	Min. 1500 N
Harlequin ACTIVITY™	59,6%	3,8 mm	7,2%	> 1500 N

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Specifications (both versions)

Conforms to DIN 18032 standard, part II

- ① Cellular polyurethane
- ② Damp-proof membrane

Laying time: a floor of 100-150 m² can generally be laid in 5 days (by 2 people)

- ③ Lower semi-flexible panel
- ④ Top semi-flexible panel
- ⑤ Performance surface

Weight: 19,5 kg/m² (not including performance surface)
Overall thickness: 46 mm (not including performance surface)

- ③ Semi-flexible support layer
- ④ Engineered board with choice of oak, beech or maple hardwood wear layer
- ⑤ Matching hardwood scotia edging

Weight: 22 kg/m²
Overall thickness: 51 mm



- 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

Design and construction

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

- Polymer damp-proof membrane.
- Cellular polyurethane 25 mm thick and tested for resilience by Harlequin.
- Layer of semi-flexible panels 12 mm thick.
- Second layer of semi-flexible panels 9 mm thick installed at right angles and in staggered rows.
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- Performance surface 2 or 3 mm thick and weighing between 2,3 and 2,6 kg/m², adhered and welded to the surface
- Maximum overall height is 49 mm, including the performance surface.

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