



**HARLEQUIN**  
The world dances on Harlequin floors®

## Sprung Floor Panel System

# HARLEQUIN ACTIVITY™

### Harlequin Activity with Vinyl & Hardwood Surfaces

Harlequin Activity is a permanently installed sprung floor system based on the now well-established triple sandwich construction originated by Harlequin over 20 years ago. It is a fully-floating system with no fixings to the sub-floor and can be laid on almost any reasonably smooth and flat surface without preparation.

The construction of Harlequin Activity is shock-damped to avoid a 'trampoline' effect and provides area elasticity to offer identical characteristics across the whole floor. Correctly reinforced, Harlequin Activity can withstand heavy loading including retractable seating. Harlequin Activity has been tested for impact sound reduction with a variety of different Harlequin surfaces, according to BS EN ISO 140-8; 1998. The excellent results achieved ranged from 22 to 24dB.

Harlequin Activity can be installed with a choice of surfaces:

- Harlequin vinyl surface: for all types of dance, but particularly ballet.
- Hardwood surface: for specifiers who need a hardwood surface for multi-purpose use, including traffic by the general public, full stage entertainment, ballroom dance or even for designers obliged to match existing decor.

Harlequin Activity floor is only available for installation by Harlequin's Contracts Division.



Harlequin Activity Floor with Studio surface at Ballet & Yoga am See in Starnberg near Munich



#### Kathryn Wade

Director, English National Ballet School

HARLEQUIN ACTIVITY FLOOR IS SIMPLY THE BEST!

Uniclass L84621	EPIC E434
CI/SfB 52 (43) X	

2.2 Harlequin Activity  
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DISTRIBUTOR

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### Application Guide - Harlequin's Portable & Permanent Vinyl Floors

✓ Available

	REVERSIBLE	STUDIO	CASCADE	ALLEGRO	TEMPO	FIESTA	STANDFAST	MARINE
<b>Liberty Permanent</b>		✓	✓		✓	✓	✓	✓
<b>Liberty Portable</b>	✓	✓	✓		✓			
<b>Activity</b>		✓	✓	✓	✓	✓	✓	✓
<b>WoodSpring</b>		✓	✓	✓	✓	✓	✓	✓

Photography:  
Richard Dunkley

Dancers & Cast left to right:  
Paulin Hugué & Roland Cox  
Paulin Hugué & Roland Cox  
Paulin Hugué & Roland Cox  
Liz Braber, Ana Lucia Alves,  
Monica Arnott, Dean Loxton  
& Barrie West



### DIN Standard 18032 Part II Test Results Harlequin Activity

	Shock Absorption	Vertical Deformation	Area Deflection	Rolling Load
Requirement	Min 53%	Min 2.3mm	Max 15%	Min 1500 N
Harlequin Activity	59.4%	3.8mm	7.2%	> 1500 N

CONTACT US FOR SAMPLES ON **FREEPHONE: 0800 28 99 32**

The Company reserves the right to make any variation in design or construction of the material described.

#### Guarantee

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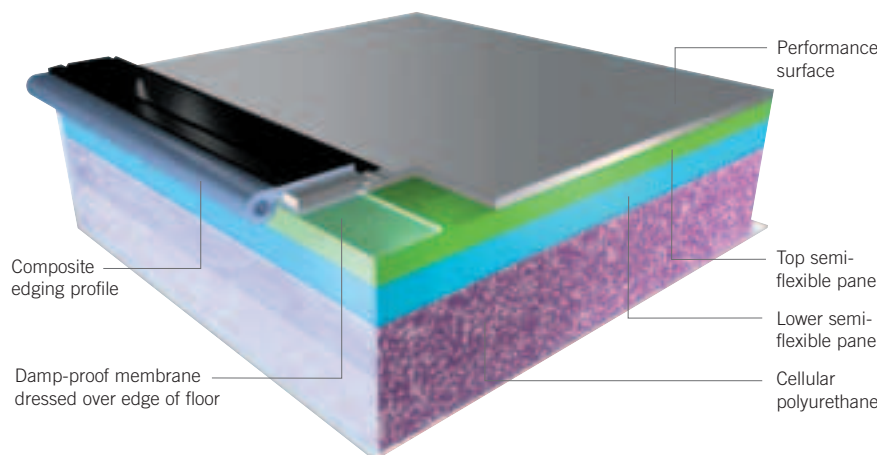
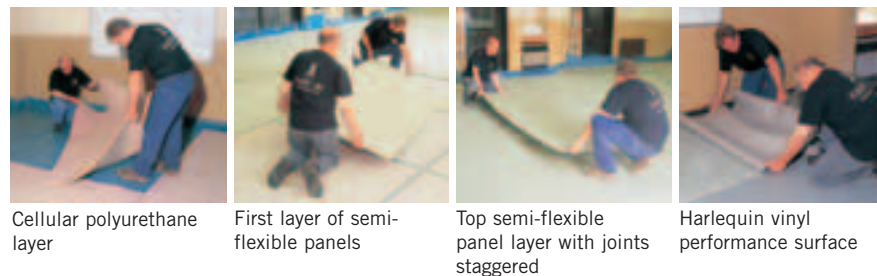
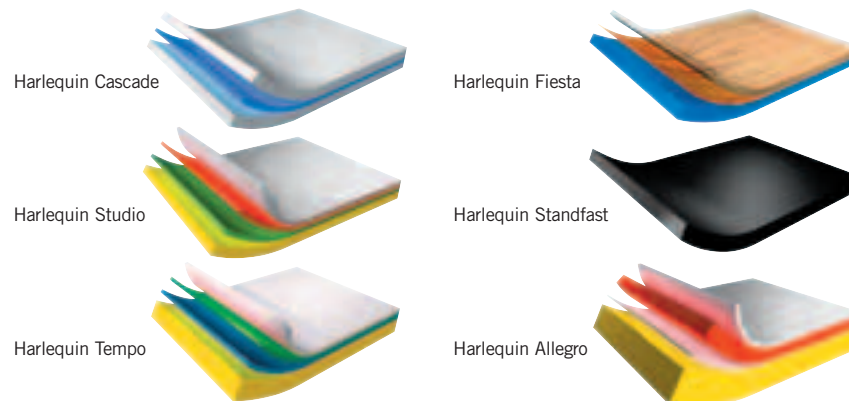
## Harlequin Activity with Vinyl Surfaces

A polymer damp-proof membrane is laid across the subfloor onto which is placed a layer of cellular polyurethane of proprietary density. Two layers of moisture-resistant semi-flexible panels are then installed and staggered, so that the joints do not coincide. The top layer of panels is bonded to the one below with a non-setting adhesive and fastened mechanically. The damp-proof membrane is folded onto the surface and secured to form a damp-proof seal. Then the selected Harlequin vinyl performance surface is installed and adhered. The seams are welded to form an unbroken surface and, finally, the gap between the flooring and the wall is filled with a composite skirting profile, screwed to the edge of the floor structure to form a flexible seal to the wall.

### Specification Guide Harlequin Activity with Vinyl Surface

Overall Thickness	45-52 mm (1 <sup>3</sup> / <sub>4</sub> " - 2") depending on vinyl surface specified
Weight	20-25 kg/m <sup>2</sup> (37-46 lbs/yd <sup>2</sup> ) depending on surface specification

Depending on individual performance requirements, the following are suitable as the top performance surface of an Activity Floor:



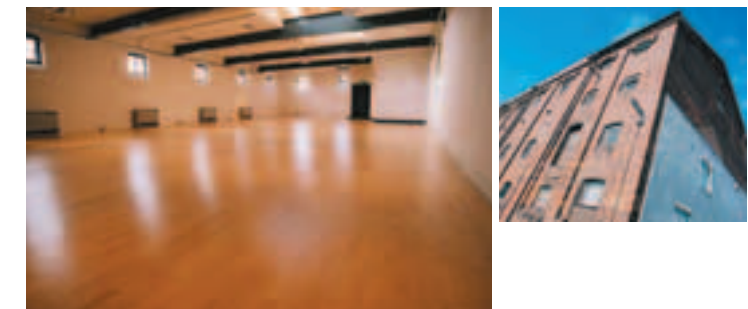
## Harlequin Activity with Hardwood Surface

The construction is identical to Activity with a Harlequin vinyl surface, but the second layer of semi-flexible panels is replaced by a selected hardwood surface layer, normally an engineered board with a choice of hardwood wear layer. (However, if desired, this can be substituted with a solid hardwood layer.) This is installed with the use of a modified PVA adhesive and secretly secured through the tongues using lost-head nails.

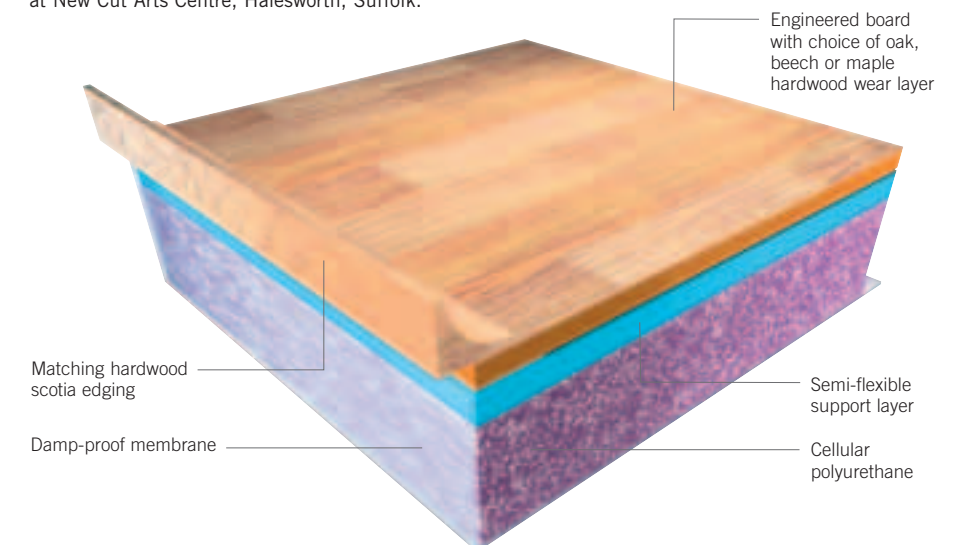
The hardwood surface may optionally be protected by impregnation with a multi-coat hardwearing polymer lacquer. The expansion gap around the perimeter of the room can be concealed by a scotia profile of matching hardwood to form a neat edging.

### Specification Guide Harlequin Activity with Hardwood Surface

Overall Thickness	50 mm (1 <sup>5</sup> / <sub>16</sub> " )
Description of Board	10.4 mm (7/ <sub>16</sub> " ) thick 2-ply engineered hardwood
Total Thickness of Hardwood Wear Layer	3.6 mm (5/ <sub>32</sub> " )
Weight	21-22 kg/m <sup>2</sup> (38-40 lbs/yd <sup>2</sup> ) depending on hardwood surface chosen
Laying Time	A floor of 100-150 m <sup>2</sup> (120-180 yd <sup>2</sup> ) can generally be installed in 5 days



New Activity Floor with maple surface installed at New Cut Arts Centre, Halesworth, Suffolk.



Installing the hardwood onto the support layer for the Crystal Cruise Line's ship, Crystal Serenity.

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