

Harlequin WoodSpring

Harlequin has designed and installed a number of variations of WoodSpring. For example, a modification was designed with sliding captive brackets and was installed on rail-guided stage wagons at the Bolshoi Ballet for vertical hanging and storage backstage.



Sequence shows the Harlequin floor being winched backstage & located into the vertical storage slot.

WoodSpring provides a permanent dance floor solution for professionals appreciating a traditional approach.

- Current technology applied to traditional floor construction
- Permanent installation
- Standard construction or custom installation for e.g. enhanced spring

Harlequin has great expertise in laying performance floors and if a WoodSpring floor is specified, we can offer the standard construction or even enhance the spring by the addition of extra layers of bearers according to the client's wishes.



Completion of first and second layers of basketweave structure



Installation of third layer in progress

Harlequin WoodSpring with Hardwood

The construction is identical to WoodSpring with a Harlequin vinyl surface, but the second layer of semi-flexible panels is replaced by a selected hardwood surface layer. This is installed with the use of a modified PVA adhesive and secretly secured through the tongues using lost-head nails.

Specification Guide Harlequin WoodSpring

Finish	Harlequin dance floor or approved hardwood
Top Panel	3/8" moisture-resistant MDF or, optionally, solid hardwood or engineered panels/boards
Lower Panel	1/2" FG plywood with marine adhesive
Basketweave	3-layer counterbattens nominally 1 x 3 stringers
Resilient Pads	Elastomer, proprietary density
Fastenings and adhesives	The panels are bonded with a non-setting adhesive and mechanically attached. With the hardwood option, boards are glued to the lower panels and secret-nailed.



Installation of Harlequin WoodSpring at the Boston Ballet School



WoodSpring draws on concepts dating back to the 19th Century. Harlequin's modern interpretation blends a traditional construction approach with the technology of today's materials.

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Application Guide Harlequin Sprung Floors (subfloor or "undercarriage")

Harlequin Product	Type of Dance	Permanent	Temporary
Activity	These floors are suitable for all types of dance. All have DIN 18032 Part II certification. Choice depends on factors such as studio shape and size; load-bearing requirements; customer preference (dancers tend to prefer different types of floor based on professional experience); and budget.	✓	
Liberty Panels		✓	✓
WoodSpring		✓	

A Selection of Customers with Harlequin WoodSpring Floors

Baltimore School of the Arts, Baltimore, MD (Studio)
Bolshoi Ballet, Moscow, Russia (Cascade)
Boston Ballet, Boston, MA USA (Cascade)
Colorado Plains Medical Center, Fort Morgan, CO (Studio)
Columbia University, New York City, NY (oak surface)
Dance Theatre of Harlem, NY (Cascade)
Loyola Marymount University, Los Angeles, CA (Cascade and oak surface)
Mark Morris, Brooklyn, NY (Studio)
Princeton University, Princeton, NJ (Studio, Cascade)
South West Missouri University, Springfield, MO (Studio)
Steps on Broadway, New York City, NY (Cascade and maple surface)
University of Oklahoma, Norman, OK (Cascade)
University of Wisconsin, Green Bay, WI (Cascade)

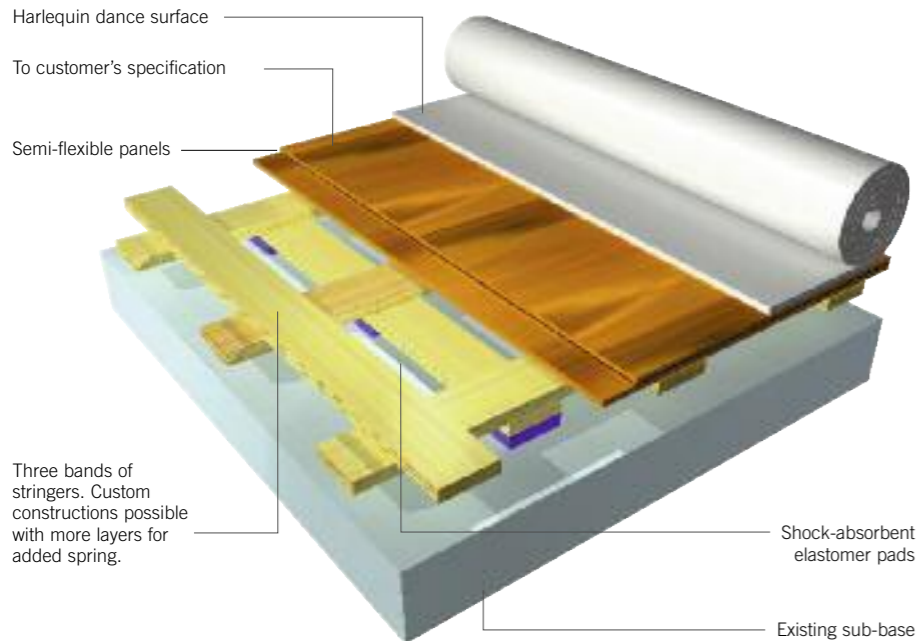


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Sprung Floor System

HARLEQUIN WOODSPRING™

The construction of this is known familiarly as "basketweave". Starting with a triple layer of wooden bearers laid at right angles to one another onto shock-absorbent elastomer pads, then covered with hardwood layer or semi-flexible panels, and topped with a Harlequin vinyl dance surface or finished hardwood. WoodSpring provides a permanent dance floor solution for professionals appreciating a traditional approach (see diagram). Theoretically the more intermediate layers incorporated in a basketweave floor the more flexible it becomes, but the principle of diminishing returns applies and in reality the extra expense and thickness outweigh the practicality. In the Harlequin WoodSpring system shock absorption and energy return are enhanced by elastomer pads attached to the underside of the bottom layer.



2.3 Harlequin WoodSpring
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Application Guide - Harlequin's Portable & Permanent Vinyl Floors

✓ Available

	REVERSIBLE	STUDIO	STUDIO 'B'	CASCADE	ALLEGRO	TEMPO	FIESTA	STANDFAST	MARINE
Liberty Permanent		✓	✓	✓		✓	✓	✓	✓
Liberty Portable	✓	✓	✓	✓		✓			
Activity		✓	✓	✓	✓	✓	✓	✓	✓
WoodSpring		✓	✓	✓	✓	✓	✓	✓	✓



DIN Standard 18032 Part II Test Results Harlequin WoodSpring

	Shock Absorption	Vertical Deformation	Area Deflection	Rolling Load
Requirement	Min 53%	Min 2.3mm	Max 15%	Min 1500 N
Harlequin WoodSpring	64%	3.3mm	14.9%	> 1500 N

Harlequin WoodSpring basketweave floors comply with the latest requirements of the Building Regulations, Access to and Use of Buildings (Part M), regarding access for disabled people.

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