



**HARLEQUIN**  
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Harlequin's range of  
performance floors for

# Cruise Ships

# The world performs on Harlequin Floors

Harlequin is the world leader in advanced technology floors and stages for the performing arts. Established in the UK over 40 years ago, Harlequin remains the industry choice for the world's most prestigious dance and performing arts companies, theatres, venues and schools.

## Cruise Ships

Cruise line owners and operators rely on Harlequin's experienced cruise ship installation teams for specialist floors and stage building services. Harlequin design, build and refurbish performance floors and stages, working with stage engineers and theatre consultants in leading venues across the world.

Harlequin is a global company with offices in the UK, Europe, Asia and The Americas, and a trusted distribution network covering the UAE and India.

### A selection of our clients:

**BLU**MARINE



**NORWEGIAN**  
CRUISE LINE

  
**P&O CRUISES**

  
**PRINCESS**  
CRUISES®

  
**Carnival**

  
**RoyalCaribbean**  
INTERNATIONAL

  
® **STAR CRUISES**





# Design and Innovation

The Harlequin product range is continually evolving to meet the changing demands and advancing technical requirements needed for global performance venues, theatres and cruise ships. Harlequin's comprehensive experience working in this market ensures a complete understanding of the technical specifications and demands of working stages.

Stage floors are integral to performance spaces; aesthetics, functionality and acoustic properties are all factors that require consideration.

The floor surface must provide a safe working environment for both the performers and the technical teams.

The stage needs to be durable, low maintenance, capable of carrying heavy loads including scenery, props and trucks and hard-wearing enough to withstand fit-ups, gets-outs and rigging – show after show.

As cruise lines invest more in top-tier performances to entertain their audiences, the onboard theatre facilities are under increasing pressure to offer the same sophisticated and state-of-the-art stage sets that would be found in leading venues around the world. With the English National Ballet performing on Cunard's Queen Mary 2 and the American Ballet Theatre performing on Celebrity Cruises, the performers require and expect the same high quality dance floors that they would dance on at home.

# Unrivalled experience

Harlequin's technical teams regularly build and refurbish stages at the world's most prestigious venues, from the Bolshoi Theatre to the Sydney Opera House.

Harlequin has developed and installed a ballet wagon for the Royal Opera House in London, flying ballet wagons at the Het Muziektheater in Amsterdam and the Oslo Opera House, and has undertaken complete stage refurbishments at many theatres including the Royal and Derngate Theatre and the Guildhall School of Music and Drama.

West End Musicals 42nd Street, Thriller, Madame Butterfly and Hamilton all perform on Harlequin floors. Cirque de Soleil, Disney Parks, Disney film productions, Pinewood Studios have all ordered Harlequin floors, as have many stage production companies for touring concerts with world class performers such as Take That, Hugh Jackman, Bjork and Rod Stewart.





# Harlequin Performance floors for Cruise Ships

Experience, research and innovation drive product development at Harlequin. As the leading global manufacturers of sprung floors and vinyl performance surfaces, Harlequin has designed a range of products tailored to suit the requirements of specific dance genres and the venues in which they will be used.

Every stage is different, but many have the same technical challenges as traditional theatres with dip traps and service panels, serrapid tracks, rain troughs, revolves, demountable stage extensions, drop storage and facilities to enable pyrotechnics.

## The Harlequin product range

Harlequin has a wide range of permanent and portable performance flooring options for cruise ships, and can offer local service and delivery to any dry docks around the world, or even work when the ship is mid-cruise.

### Harlequin Marine™

**Harlequin Marine** is an IMO rated performance vinyl designed specifically for use in marine environments. It is durable, easy to maintain and conforms to IMO standards and fire ratings.



**Black - 501**

### Harlequin Standfast™

**Harlequin Standfast** is a hard-wearing, durable performance floor intended for permanent installation using adhesive. The joins are heat welded to form a continuous performance surface.

Preferred by the Royal & Derngate, Northampton, Birmingham Hippodrome, the Royal Ballet School and Shaw Theatre, London.



**Grey - 004**



Black



Dark Grey



Light Grey

### Harlequin Cascade™ with BioCote® Antimicrobial Protection

**Harlequin Cascade** is the ultimate heavy-duty dance floor chosen by generations of professional dancers, artistic directors, and stage managers.

**Harlequin Cascade** now comes with BioCote® Antimicrobial Protection, an added ingredient that helps keep the floor hygienically clean, so reducing the risk of cross contamination by working constantly to reduce the presence of microbes on the surface of the flooring.

**Harlequin Cascade** is widely used as a ballet floor but is also a popular choice for many other dance styles and is often specified as the performance vinyl when re-fitting a stage on a ship.

**Dark grey - 406**



Black



Hazlenut



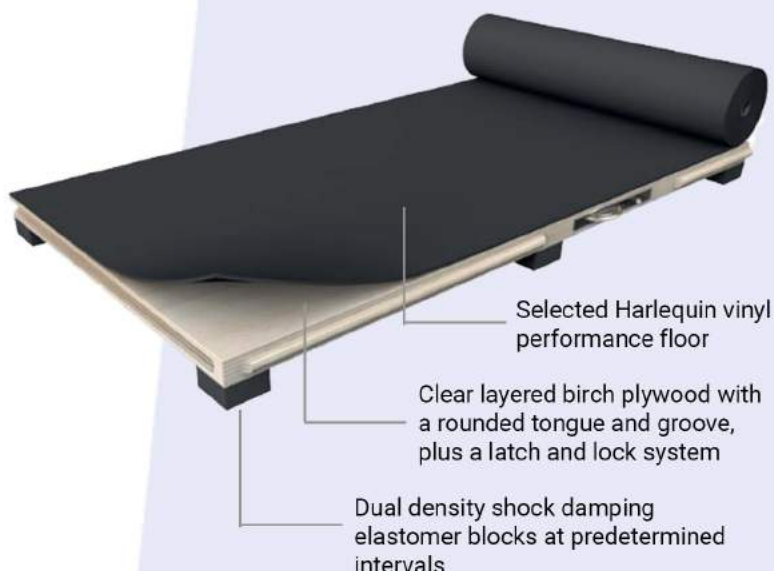
Light Grey



White

## Harlequin Liberty™

When a sprung wooden floor is required for a specific tour or performance, a pop-up performance floor can be provided. Harlequin Liberty is a sprung floor panel system supported by dual density shock dampening elastomer pads and joined together with a 'one turn of the key' latch and lock mechanism. This is a cost-effective and versatile option for touring dance companies that require greater absorption from a floor to support them with lifts and jumps. The English National Ballet danced on Harlequin Liberty on the Cunard Queen Mary 2.



## Bespoke printed floors

A printed finish is available on Harlequin Cascade, Harlequin Reversible Pro and Harlequin Clarity vinyl floors. You can have a bespoke design, or select a pattern, image or logo. A printed vinyl floor is perfect for touring theatre production and performances. We have recently supplied the Norwegian Cruise line "Encore" vessel with a printed floor for the cast of Kinky Boots.

## The Harlequin installation teams

Harlequin's cruise ship installation teams have many years' experience installing specialist floors and stages in marine environments, working closely with stage integration companies. All Harlequin installers are CSCS and CFA approved. Harlequin combines traditional floor construction skills using natural materials and advances in engineered floor products to meet the most demanding stage specifications.

Initial site visits can be made at any port. Work is usually undertaken whilst the vessel is in dry dock but can be carried out when in service.

Harlequin can also offer some performance flooring products on a 'supply only' basis.





## Working with stage integration teams

Operating across the world, in dry docks and at sea, the Harlequin Cruise Ship installation teams work closely with world renowned stage integration teams, like TAIT and technical solution providers such as Push The Button and Videlio to deliver top quality finished stages on time and on budget.

# TAIT

# videlio

# ptb

## Rehearsal studios

Cruise line entertainment departments rehearse their productions in impressive studios on land before they take their productions to the high seas. The studio sizes are usually vast, spanning between 20,000 and 100,000 square feet in size, with numerous studios and rehearsal rooms. Equipped with state-of-the-art production facilities including lighting, stage design and audio engineering it is important that the rehearsal facilities reflect the environment and facilities on board the cruise ship. It is important for the dancers to rehearse on the same quality performance floor that they will be performing on at sea. Harlequin has installed floors in many of these studios including the 60,000 square feet of rehearsal space at the Royal Caribbean Production Studio, where over 150 rolls of Harlequin Cascade were installed and over 530 m2 of studios at Southampton for Carnival Cruises.







# Case Study

# Caribbean Princess

## Overview

Princess Cruise Lines, part of Carnival Corporation, invested \$8.2 million in a full renovation programme on the Caribbean Princess.

Measuring 290m, the 113 tonne cruise ship entered the Grand Bahama Shipyard Dry Dock for a full makeover. Over 11 tonnes of steel was used in structural projects on the hull and upper decks and intricate Princess livery created on the bow of the vessel. The ship's Explorers Lounge underwent a full stage refurbishment.

Showcasing Broadway-style productions at sea, the Princess' theatre is amongst the largest of the ships entertainment venues with state of the art facilities to accommodate elaborate stage sets.



## Project highlights

|                          |                         |
|--------------------------|-------------------------|
| <b>Name:</b>             | Princess Cruises        |
| <b>Location:</b>         | Dry dock Bahamas        |
| <b>Project Type:</b>     | Stage refurbishment     |
| <b>Building Type:</b>    | Cruise Ship vessel      |
| <b>Product Types:</b>    | Harlequin Cascade       |
| <b>Stage Contractor:</b> | Tait Stage Technologies |
| <b>Stage Area:</b>       | 282 m <sup>2</sup>      |



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# Case Study Caribbean Princess

## The requirement:

Stage refurbishment and new stage surface.

## The solution

Harlequin's highly skilled specialist installation team carried out a full stage replacement removing all existing plywood from the main stage and laid over 280m<sup>2</sup> of black Harlequin Cascade vinyl performance surface with adhesive and fully welded seams.

The proscenium arch and centre stage refit included the installation of two layers of plywood; down stage and up stage performer lifts, access panels, demountable sections, Serapid tracks, feather and black paint finish, steel rain trough removal and battening, work on the steelwork grid and bespoke floor guides for the LED wall. Safe edges and nosings were also installed.

Harlequin Cascade



Homogeneous PVC  
with a slip-resistant  
dance surface

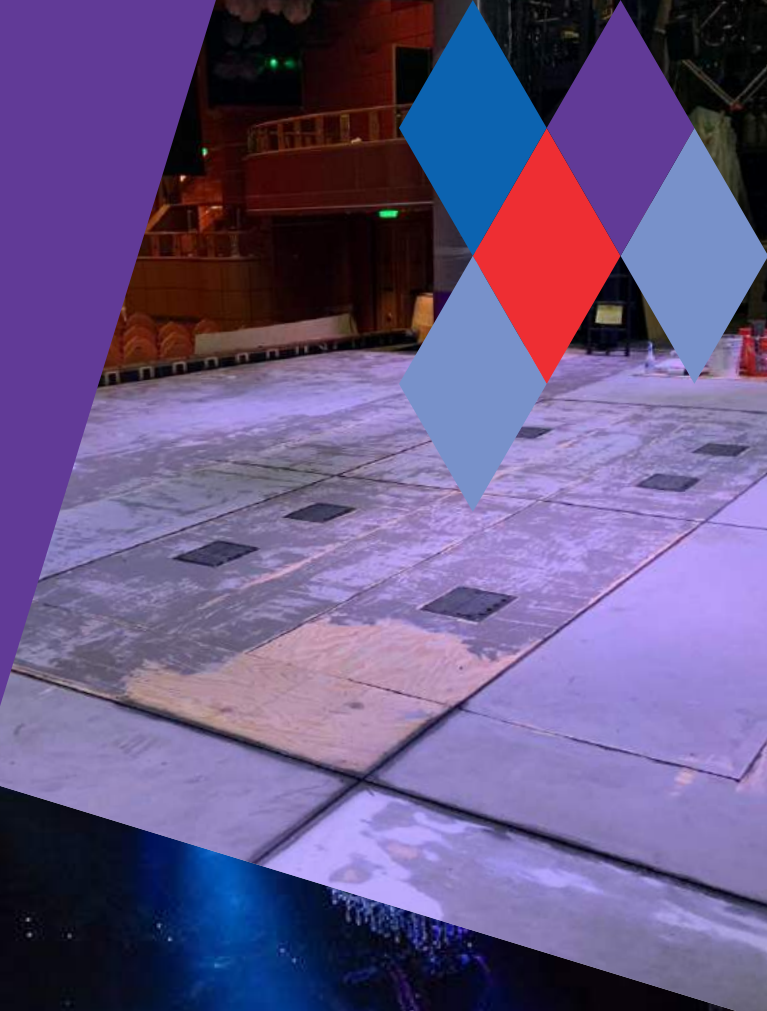
Mineral fibre  
reinforcement

Homogeneous PVC



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# Case Study Marella Explorer 2

## Overview

Marella's first adults-only, 1814 capacity passenger ship, the Marella Explorer 2 set sail on its maiden voyage April 2019.

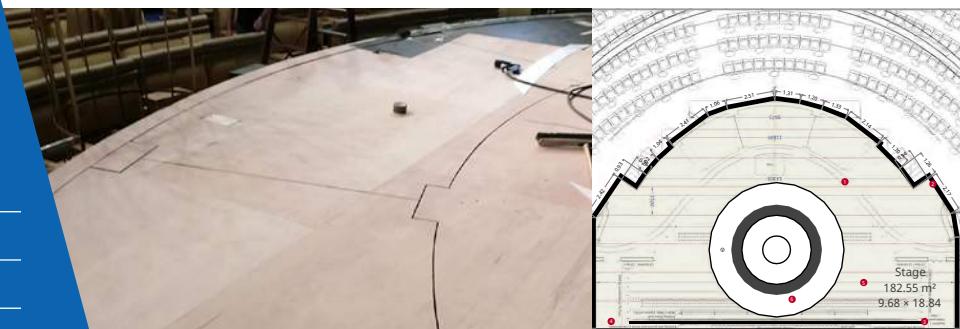
The Broadway Show Lounge stage underwent a full refurbishment during the Marella Explorer 2's dry dock refit in Cadiz, Spain.

Onboard entertainment production company Ted Group produced two brand new shows for the theatre space "Revive! The Forgotten Circus" and "Lovestruck".



## Project highlights

|                          |                       |
|--------------------------|-----------------------|
| <b>Name:</b>             | Tui Marella Cruises   |
| <b>Location:</b>         | Dry dock Cadiz, Spain |
| <b>Project Type:</b>     | Stage refurbishment   |
| <b>Building Type:</b>    | Cruise Ship vessel    |
| <b>Product Types:</b>    | Harlequin Standfast   |
| <b>Stage Contractor:</b> | Ted Group             |
| <b>Stage Area:</b>       | 182.55 square metres  |



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# Case Study

# Marella

# Explorer 2

## The requirement:

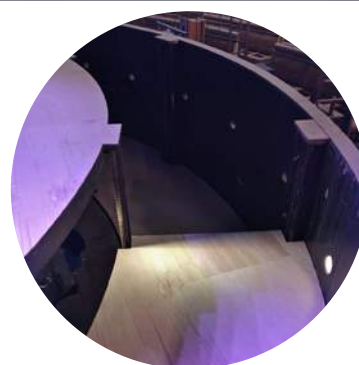
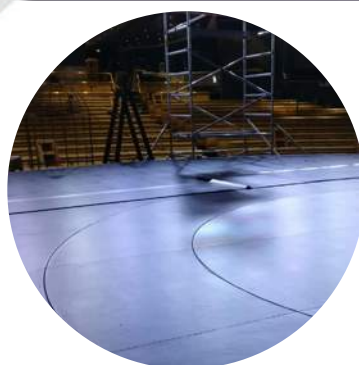
Stage refurbishment and new stage surface.

## The solution

The centre stage featured a double revolve requiring bespoke access panels, orchestra pit lifts and a newly created LED wall. Harlequin's specialist installation teams installed a new plywood surface over the original solid wood sub-floor. A feather finish created a smooth, level surface on to which Harlequin Standfast vinyl flooring was permanently laid with adhesive and fully welded seams. PVC nosing was fitted to the front of the stage and edges were painted black.

Harlequin Standfast Black

Homogeneous PVC  
with a slip-resistant  
performance surface



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# Case Study

# Superstar

# Pisces and

# Aquarius

## Overview

Refurbishments were carried out on both Star Cruises' Superstar Pisces and Aquarius ships.



## Project highlights

|                |                     |
|----------------|---------------------|
| Name:          | Star Cruises        |
| Location:      | Dry dock            |
| Project Type:  | Stage refurbishment |
| Building Type: | Cruise Ship vessel  |
| Product Types: | Harlequin Cascade   |



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# Case Study

# Superstar Pisces and Aquarius

## The requirement:

Stage refurbishment and new stage surface.

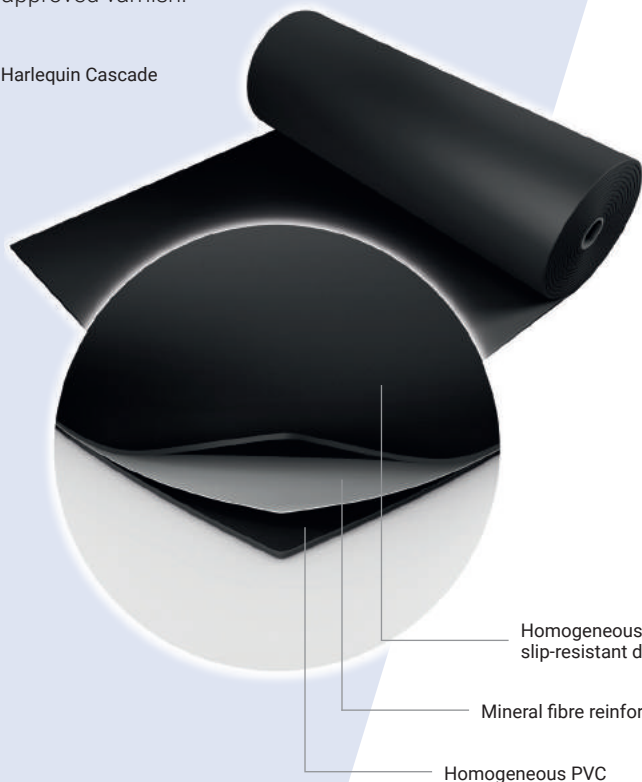
## The solution

Harlequin removed the existing stages and replaced the plywood on both using two layers of Dricon® fire retardant treated 18mm timber onto Isorubber, fixed with tech screws through the plywood and Isorubber impact sound isolator.

The plywood joins were filled and sanded to a suitable finish before installing Harlequin vinyl top surfaces. Harlequin Cascade was then installed lengthways across both stages with seams welded and silicone sealant to the perimeter abutting walls.

The wooden plinths at the front of both stages were stripped of varnish, sanded and repaired then recoated with three coats of marine approved varnish.

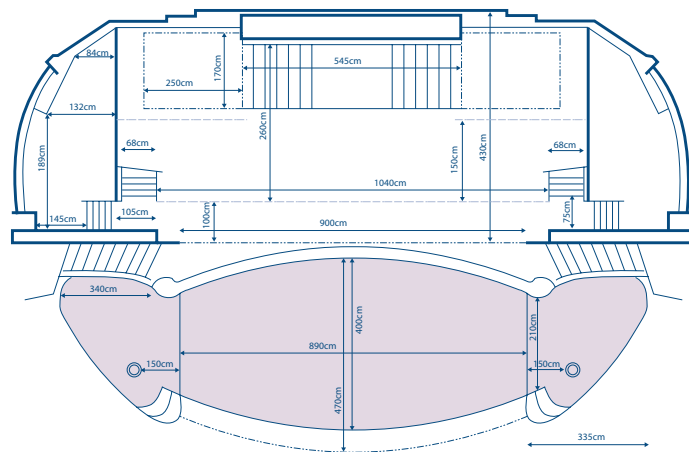
Harlequin Cascade



Homogeneous PVC with a slip-resistant dance surface

Mineral fibre reinforcement

Homogeneous PVC



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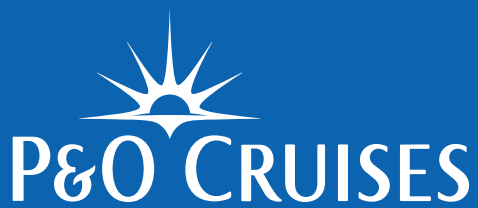


# Case Study Ventura

## Overview

P&O Cruises Ventura underwent a major refit in Monfalcone, Italy. Launched in 2008, the cruise ship is one of the largest of the P&O ships carrying over 3,000 passengers.

The Arena Theatre is a large show-lounge and venue for West End review style shows, tribute acts, presentations and recently released films. The Headliners Theatre Company offers twice-nightly high energy performances.



## Project highlights

|                |  |
|----------------|--|
| Name:          | Ventura                                |
| Location:      | Dry dock                               |
| Project Type:  | Stage refurbishment                    |
| Building Type: | Cruise ship vessel                     |
| Product Types: | Harlequin Cascade,<br>Harlequin Marine |



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# Case Study Ventura

## The requirement:

Stage refurbishment and new stage surface.  
Initial fit-out and re-fit of Main Stage, Explorers Lounge & Deck 5 Scenery Store.

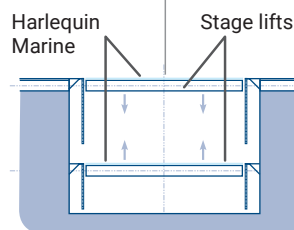
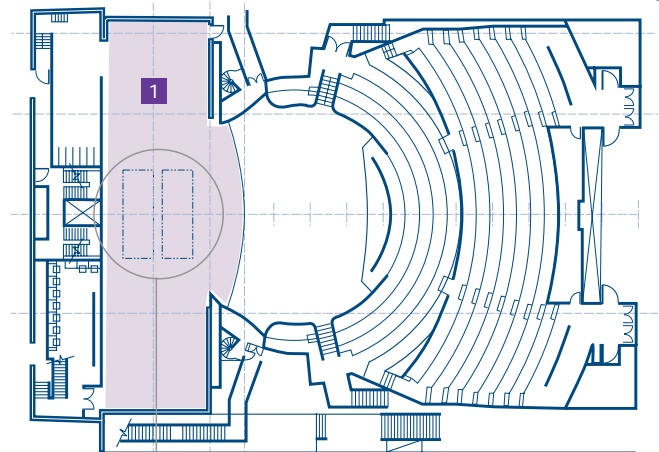
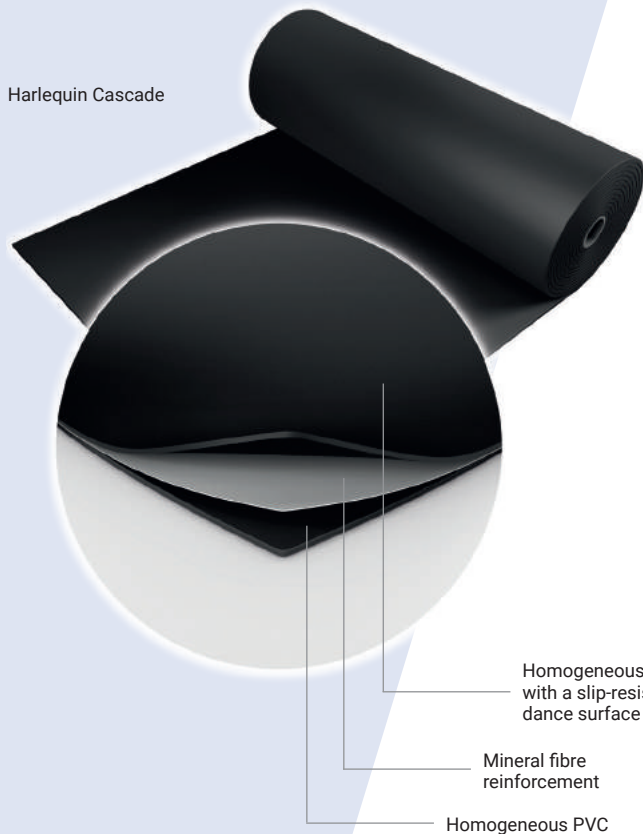
## The solution

Harlequin Cascade vinyl flooring was installed to the plywood sub-floor of the main stage and cut to fit around Serapid tracks, traps and stage lifts.

A special screed was laid directly onto the metal deck immediately below the main stage and Harlequin Marine was installed onto the screeded area, including the surface of the stage lifts.

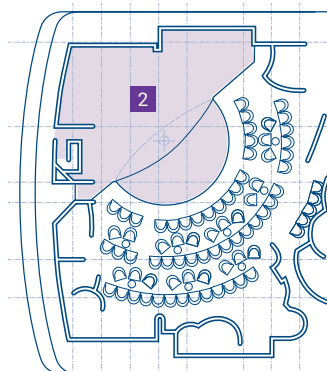
Harlequin Cascade was installed onto the plywood surface of the fixed stage area and revolve stage extension of the Explorer Lounge.

Harlequin Cascade

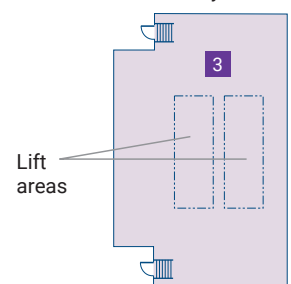


- 1 Main Stage: 265m<sup>2</sup>**
- 2 Scenery Store: 109m<sup>2</sup>**
- 3 Explorer Lounge: 168m<sup>2</sup>**

Cross section of below stage storage area with stage lifts



Scenery Store



Lift areas

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# Case Study Emerald Princess and Grand Princess

## Overview

Princess Cruise Lines, part of Carnival Corporation, carried out a dry dock refit in the Bahamas on the Emerald Princess and the Grand Princess vessels.



## Project highlights

|                   |                        |
|-------------------|------------------------|
| Name:             | Princess Cruises       |
| Location:         | Dry dock               |
| Project Type:     | Stage refurbishment    |
| Building Type:    | Cruise Ship vessel     |
| Product Types:    | Harlequin Cascade      |
| Stage Contractor: | Stage Technologies Ltd |



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# Case Study Emerald Princess and Grand Princess

## The requirement:

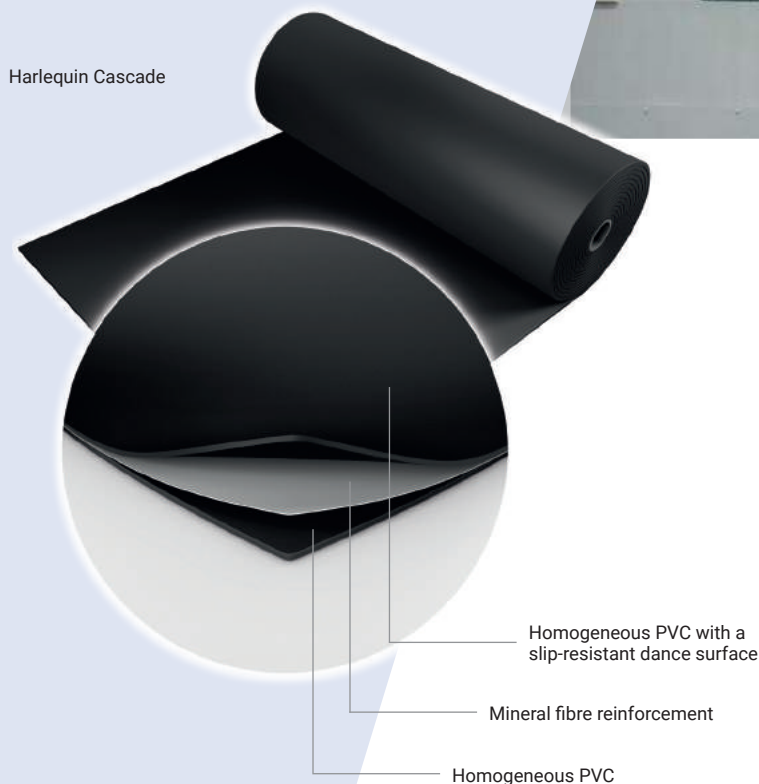
Stage refurbishment and new stage surface.

## The solution

The main stage refurbishment projects were carried out in conjunction with Stage Technologies Group.

The existing floor coverings were removed and defects in the plywood sub-floors were repaired. A latex screed with flexible smoothing compound was used to give a suitable finish before the installation of the Harlequin vinyl surfaces. In both cases Harlequin Cascade was permanently laid, with seams welded and silicone sealant applied to its perimeters, before PVC nosings were installed to the steps each side of the stage into the audience area.

Harlequin Cascade



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# Case Study

# Star Princess

## Overview



The Star Princess carries 2,600 passengers on amenity-rich cruises worldwide.

Princess Cruises' Star Princess underwent a two-week dry dock multi-million-pound renovation programme.

The Princess Theatre showcases Broadway-style productions at sea featuring dazzling stage sets, artists from around the globe, modern hits and timeless classics.

## Project highlights

|                       |                          |
|-----------------------|--------------------------|
| <b>Name:</b>          | Princess Cruises         |
| <b>Location:</b>      | Dry dock Victoria Canada |
| <b>Project Type:</b>  | Stage refurbishment      |
| <b>Building Type:</b> | Cruise ship vessel       |
| <b>Product Types:</b> | Harlequin Cascade        |
| <b>Contractor:</b>    | Tait Technologies        |



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# Case Study

# Star Princess

## The requirement:

Stage refurbishment and new stage surface

## The solution:

Uplift and reinstall insulation, three layers of ply wood feather finished with a Harlequin Cascade surface welded with fixings, nosings and adhesive.

The refurbishment included a unique rain trough and an intricate complex series of traps and stage lifts.

Harlequin Cascade



Homogeneous PVC  
with a slip-resistant  
dance surface

Mineral fibre reinforcement

Homogeneous PVC



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