

# SPECIALISED SCREEN SURFACES

from Harkness Screens, the world's largest supplier of projection screen surfaces

*Harkness Screens is a leading specialist projection screen manufacturer, using unrivalled experience and the latest technology to provide innovative solutions for cinema, leisure and audio visual markets worldwide.*

## High Performance Rear Projection Surface

Harkness Screens offer a range of projection surfaces suitable for different applications and lighting conditions.

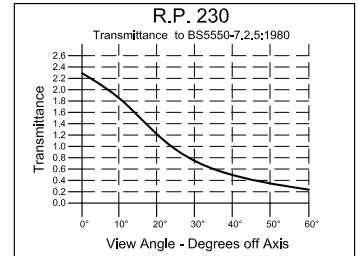
The specially formulated surface diffuses light in order to avoid hot spotting. It gives excellent colour rendition, good contrast and wide viewing angles.

### RP230

RP230 is a foldable translucent vinyl.

It is neutral grey in colour with a high transmittance and low reflectance value.

It is suitable for all types of rear projection and is particularly useful in bright ambient light conditions.



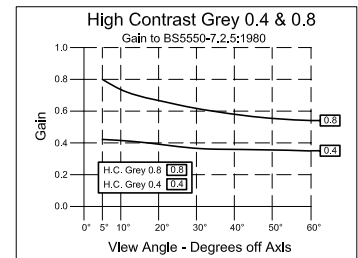
## High Contrast Front Projection Surfaces

Designed for use with LCD or DLP video projectors, the grey surface reinforces black or near black colours, thereby enhancing the contrast.

Perforated forms are available for improved acoustic performance.

### High Contrast Grey

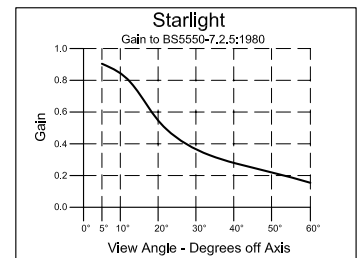
A coated vinyl available in two reflectance (gain) levels.



### Starlight

A vinyl with a specially formulated coating, which enhances contrast and gives a higher level of gain. Effective in ambient light.

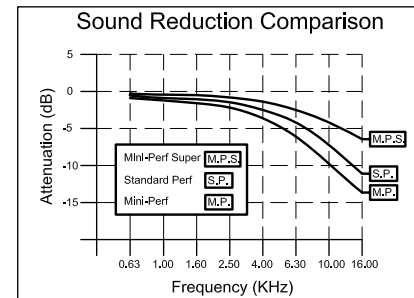
Excellent for home cinema applications.



## Available Perforations

Perforation Form	Hole Size		Open Area
Standard Perf	1.2mm	0.047"	4.5%
Mini-Perf (MP)	0.5mm	0.020"	1.7%
Mini-Perf Super (MPS)*	0.5mm	0.020"	5.1%

\*MPS only available on Starlight.

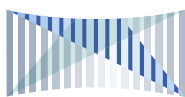


## Benefits of Harkness Screens

- All Harkness screens are formulated to give excellent colour rendition, good contrast and uniform brightness
- Screens have virtually invisible seams under normal projection conditions
- RP230 is foldable for transportation
- Edge finishing and shaping to suit applications

The screen surface is often considered the low cost item in the whole project, but it can have a major impact on the viewing experience.

**Don't compromise - use Harkness Screen Surfaces.**



HARKNESS SCREENS

For full information regarding Harkness Specialised Screen Surfaces and other products, please refer to Product Data Sheets available from our web site (pdf format).

## Edge Finishing

Different edge finishing options are available to suit different applications.

- Web and eye - grommet spacing 150mm
- Triple fold web
- Pockets (to take tube)
- Press studs (snaps)
- Dual Lock™
- Cut square (unfinished edges)

Shaped surfaces are also available.

## Frames

Harkness Screens can supply frames for use with Harkness screen surfaces.

- Wrap-Round (floating) frames
- Smart-View decorative frame systems
- Lace-in frames, together with cloth masking
- Snap frames (with press studs)
- Easi-Rect foldable frame systems

## Despatch / Storage

Screens should normally be transported and stored at temperatures between 5°C and 30°C (40°F and 85°F), with relative humidity less than 80%.

If screens are very cold, e.g. following air transport, then they must be allowed to warm up before unpacking, otherwise cold cracking may occur.

Packaging must be protected from mechanical damage at all times.

Data	Maximum Size (m)	Maximum Size (ft)	Packing Method	Weight (Kg/m <sup>2</sup> )	Roll width (m)	Roll width (ft)
RP230	30 x 20	98' x 65' 6"	Folded	0.43	3.0	10
Starlight	24.1 x 12.4	79' 3" x 40' 7"	Rolled	0.50	Not available off roll	
High Contrast Grey	24.1 x 12.4	79' 3" x 40' 7"	Rolled	0.50	Not available off roll	

MPS sizes are limited to 5.2m x 2.2m / 17' x 7' 2" (only available on Starlight).

Folded screens are packed as a parcel up to 90m<sup>2</sup> (1000ft<sup>2</sup>); above this in a wooden crate.

Rolled screens are packed in a tube up to 7m (23ft) height; above this in a long wooden box.

## Fire Certification

Harkness Screens have fire certification complying with British and International Standards.

## Installation

The following principles should be followed when installing Harkness Screens Specialised Screen Surfaces.

- The environment should be clean with no building works taking place.
- Installation should be at ambient temperature (24°C/74°F).
- Care should be taken to avoid the screen coming into contact with sharp objects during installation.
- Excessive loads should not be placed on any specific point of the screen.
- Use of cotton gloves is recommended.
- The viewing surface must not be touched.
- High Contrast Grey and Starlight surfaces must never be creased during installation .

## Care and Maintenance

RP230 can be cleaned with mild detergent.

High Contrast Grey and Starlight must never be made wet.

Remove dust with a soft brush or cloth; take care not to scratch the surface.

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