



**Harkness Screens UK**  
Tel +44 (0) 1438 725200  
Fax +44 (0) 1438 344400

E-Mail [sales@harkness-screens.com](mailto:sales@harkness-screens.com)  
[www.harkness-screens.com](http://www.harkness-screens.com)

**Harkness Screens USA**  
Tel +1 (540) 370 1590  
Fax +1 (540) 370 1592

**RP 3D  
REAR PROJECTION SCREEN  
DATA SHEET**

**Document Ref DS-077 Issue 4 Jan 2010**

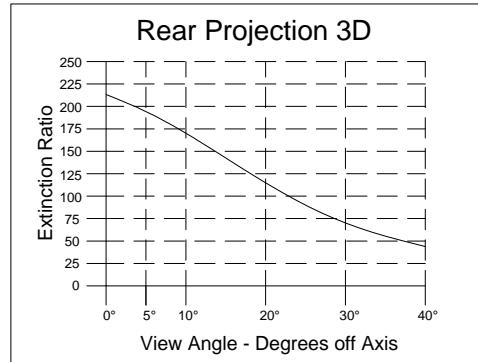
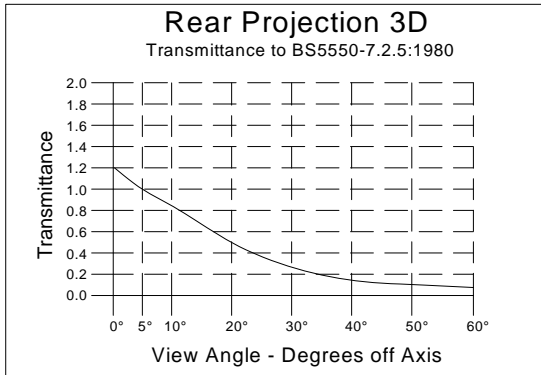
RP 3D is a flexible rear projection surface, specifically designed for "passive" 3D applications. It has a very low depolarisation level (extinction ratio). The transmittance gives sharp, bright images with an acceptable viewing angle. The material can be joined to make up large screens and the seams are almost invisible.

**Application**

RP 3D rear projection screens are ideal for linear polarising passive 3D systems which require rear projection, such as theme park rides or simulators for design or training purposes. It can be fitted in lace-in frames, or Harkness Easi-Rect or Smart-View frames, or roller screens. **N.B.** Please ensure polarising filters in the projector and glasses are orientated in the horizontal and vertical planes, to ensure optimum performance.

**Projection**

Viewing side is the mat side of the surface.



**Sizes and Shapes**

- Screens of any size or shape can be made up
- Roll width 1.4m

**Edge Treatment**

The following edge finishes are available as standard:

- Web and eye (grommet) with 15cm (6") spacing
- Preformed pipe pocket
- Cloth web and snap fixings for press stud (snap) frames
- Cut square (unfinished edges)

**General Detail**

Weight 0.43kg/m<sup>2</sup> (0.09lb/ft<sup>2</sup>)

**Fire Retardancy**

Certification to international standards including:

- UK BS 5867 Part 2
- France M3

**Typical Packing**

RP 3D screens can be folded and will be supplied as a parcel in sizes up to 90m<sup>2</sup> (1000ft<sup>2</sup>)  
A wooden crate will be used for larger sizes. Surfaces for roller screens will be packed in a tube.

**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. Screens should be installed within a maximum of 2 months of shipping. Packages should be handled with care to avoid damage.

**Installation**

The following principles should be followed when installing Harkness RP 3D screens:

- The environment should be clean with no building works taking place.
- Installation should be at ambient temperature 68/75°F (20/24°C).
- 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 should not be touched.
- Creasing should be minimised during installation.

The securing of the screen will depend on the edge treatment specified:

- Screens with web and eyes (grommets) can be secured using sisal or screen ties (bungees)
- Unfinished screens can be secured using Harkness 'Hold-On' clips and ties.

**Care and Maintenance**

The general environment where the screen is installed should be kept reasonably clean to avoid dirt and dust build-up. Screens can be periodically cleaned using a soft brush or cloth, doing this vertically with limited pressure. Screens can be cleaned using a damp cloth wetted with water and a mild detergent. Under no circumstances should screens be cleaned with abrasive materials or harsh chemicals such as acids, bleaches or solvents. Harkness Screens is not liable for damage caused to screens through the use of inappropriate cleaning methods or chemicals.

In the interest of product enhancement, Harkness Screens reserves the right to introduce modifications or alterations without notice