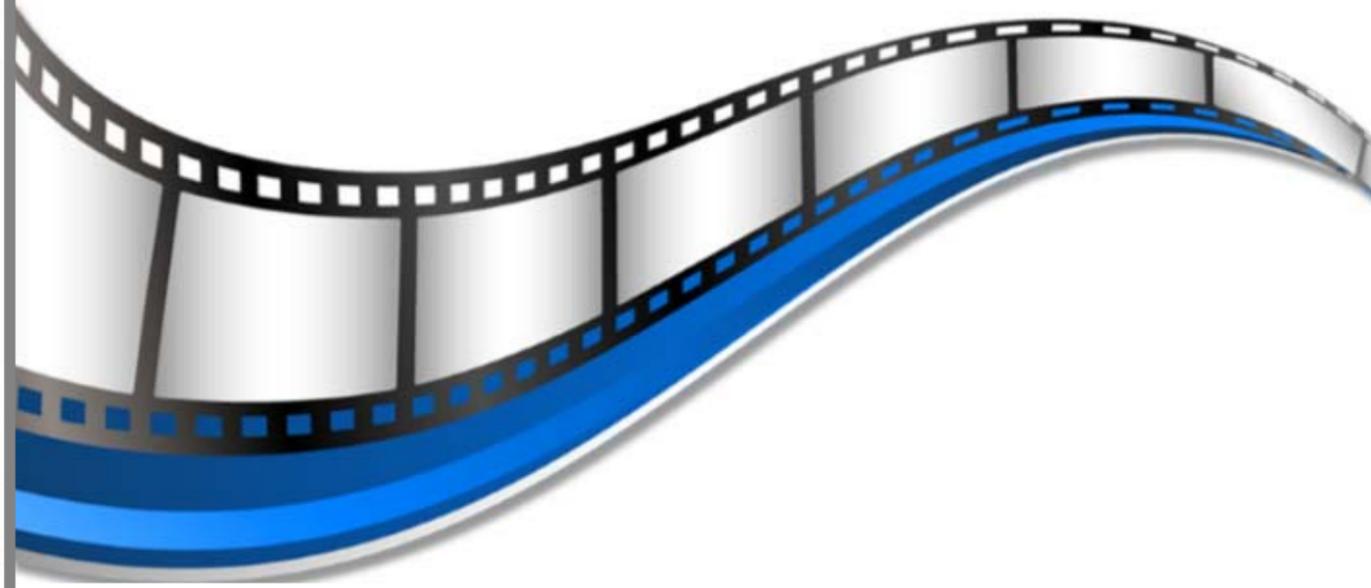




Surface Range

- 2 D Classic Matt Plus
- 2D High Gain Perlux 140 180
- 2D High Gain Perlux 140+ 180+
- 2D Preview Rooms Matt Preview
- 3D Non Polarised Perlux 220
- 3D Spectral 240 300
- 3D / 2D Clarus XC 170 220 270
- 3D Precision White by RealD 140 200



Screen Surfaces

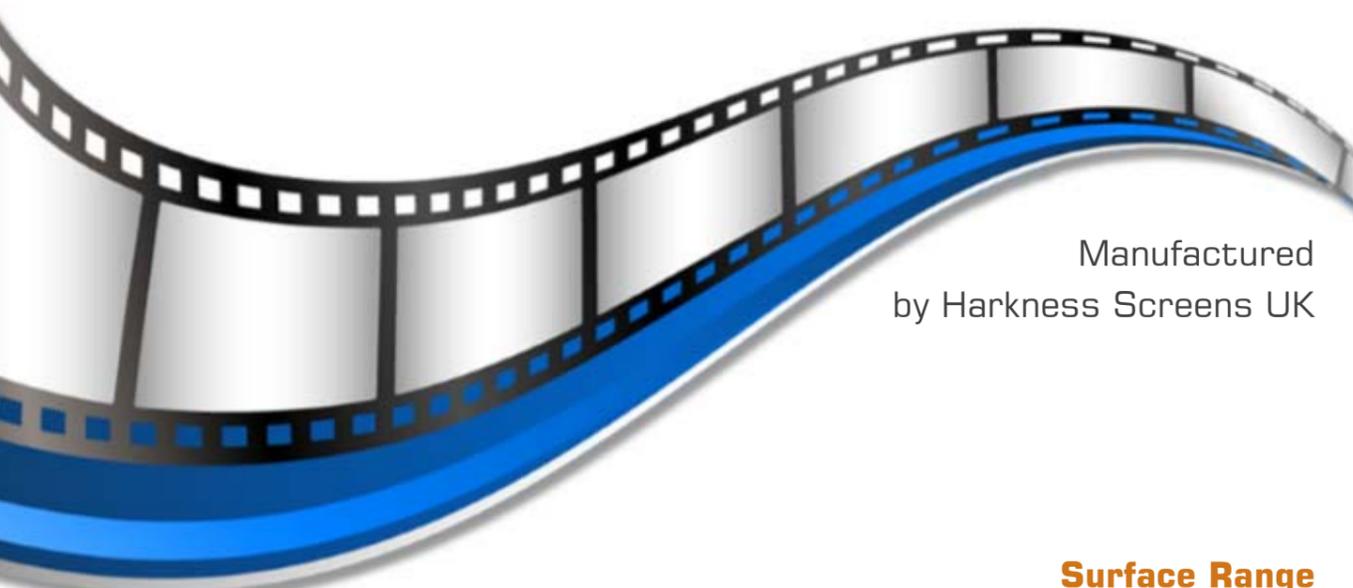
Manufactured
by Harkness Screens UK

Surface Range
Matt Plus
Perlux
Spectral
Clarus XC

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2D Front Projection Surfaces

Matt Plus

Harkness Matt Plus screens are considered by leading cinema exhibitors worldwide to be the best matt white projection surface.

Matt Plus is a versatile screen surface intended for a variety of auditoria, generally in dark conditions. The flexible PVC-based material is manufactured to a unique formulation and specification providing wide viewing angles, high contrast, bright pictures and excellent colour temperature. Our proprietary and unique seam welding process ensures our screens have no visible seams under projection conditions. Screens are available in either perforated or non perforated forms depending on speaker placement. The surface is foldable for ease of transportation, cinema access and installation.

Matt Plus Mini-Perf (MP) Is recommended where close viewing conditions apply. It has smaller diameter perforations (less than half the diameter of other Harkness projection surfaces) to provide the ultimate surface type for close viewing conditions.

Features

Application

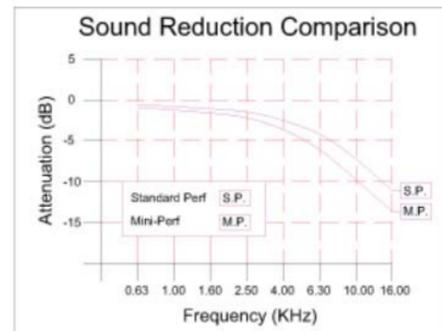
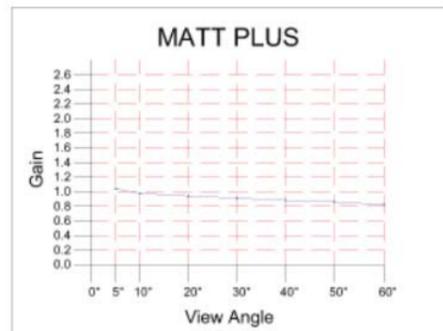
Cinema – 35mm film, 2D digital, and 3D digital
Home cinema
Film production
Events

Acoustic Performance

Screens are perforated to facilitate the acoustic performance of behind-screen speakers. For most cinema auditoria, standard perf pattern is used. For close viewing (less than 5m/16ft), mini-perf pattern is recommended.

Non-perforated screens are available for use when there are no speakers situated behind the screen.

Viewing and audio performance



MATT PLUS	PERFORATED FORM	HOLE SIZE	OPEN AREA
MAX GAIN 1.0	Standard Perf	1.2mm (0.047")	4.5%
VIEWING ANGLE 90° TO AXIS	Mini-Perf	0.5mm (0.020")	1.7%



Matt Plus Technical Specifications

	Matt Plus	
Material	PVC	
Colour	white	
Perforation	standard or mini-perf	
Weight	0.43 kg/m2 (0.09 lb/ft2)	
Thickness	0.3mm	
Maximum size	No specific limit	
Made up screens	Available	
Roll width	na	
Packing method	Folded; rolled as option	
Fire classification	UK	
	USA	NFPA 701
	Canada	
	Germany	B1
	France	M1
	Italy	Class 1
	Spain	M2
	Japan	
	Australia	

General Information

Surface Edging Options

Web and eye (grommet). Triple fold web integral with surface
Preformed pipe pocket any size on any side
Cloth web and fixings (snaps) for press stud frames (UK only)
Straight sides or shaped to special order
Cut square (unfinished edge)

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.

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.