

PERLUX 220



Harkness Perlux® screens are considered by leading cinema exhibitors worldwide to be the premier gain projection surface

Perlux® 220 is a special ultra-high brightness screen intended for 3D non-polarised light systems such as Dolby and active glasses technologies. It is also well-suited for very large 2D digital auditoria. It offers high contrast and very bright pictures, though it offers more narrow viewing angles than screens with lower gain.

With 120% higher brightness than matt white surfaces, it can significantly reduce projection operating costs. 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, and are shipped rolled.

Features

Application

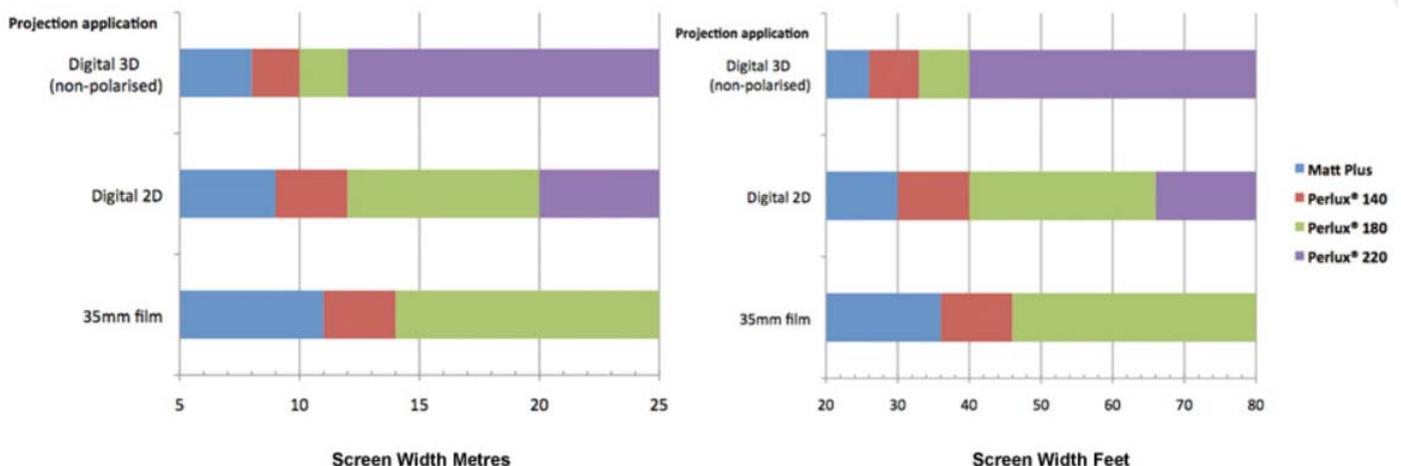
- Cinema – 35mm film, 2D digital, and 3D digital

Recommended sizes

- Digital 2D projection – over 20m /66ft
- Digital 3D projection – over 12m / 40ft

The screen frame should be curved (see General Information section).

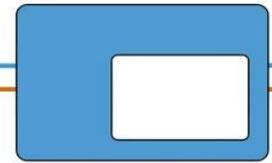
General cinema screen sizing reference



Acoustic Performance

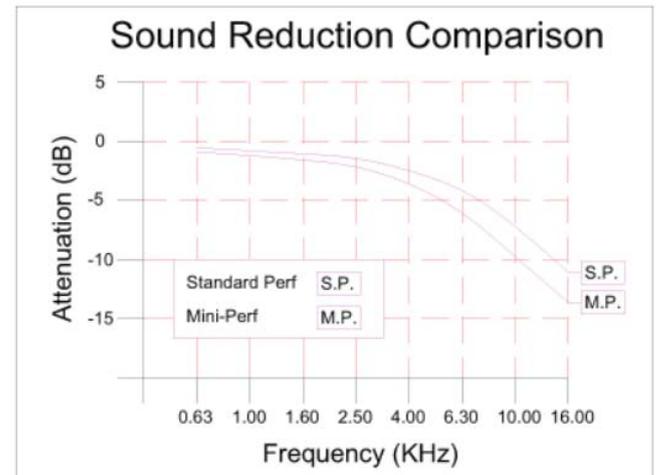
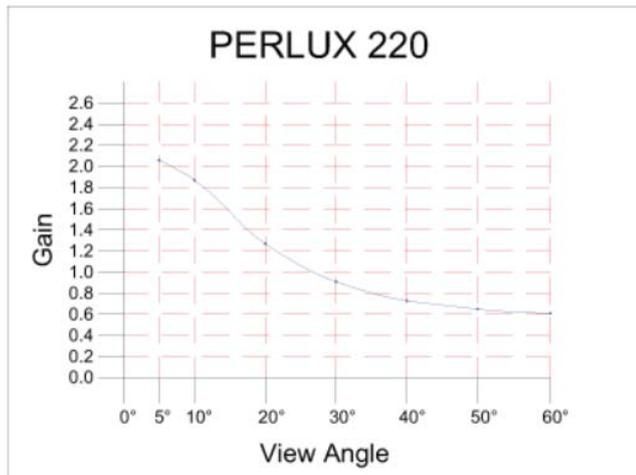
Screens are perforated to facilitate the acoustic performance of behind-screen speakers. For most cinema auditoria, standard perf pattern is used. For close viewing (less than 5m/16ft), mini-perf pattern is recommended.

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



camstage

Viewing and audio performance

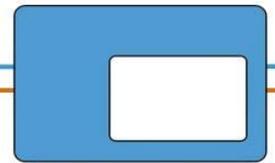


MAX GAIN 2.2
HALF-GAIN ANGLE 25° TO AXIS

| PERFORATED FORM | HOLE SIZE | OPEN AREA |
|-----------------|----------------|-----------|
| Standard Perf | 1.2mm (0.047") | 4.5% |
| Mini-Perf | 0.5mm (0.020") | 1.7% |

Technical Specifications

| Perlux® 220 | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|-----------|--|------------|-----------------|---------------|-----------|----------------|-----------|--------------|----------------|--------------|-----------|--------------|--|--------------|--|------------------|--|
| Material | PVC with pearlescent coating | | | | | | | | | | | | | | | | | | |
| Colour | white | | | | | | | | | | | | | | | | | | |
| Perforation | standard or mini-perf | | | | | | | | | | | | | | | | | | |
| Weight | 0.50 kg/m ² (0.10 lb/ft ²) | | | | | | | | | | | | | | | | | | |
| Thickness | 0.3mm | | | | | | | | | | | | | | | | | | |
| Maximum size | USA plant: 23.77 x 12.19m (78' x 40') Europe: 33 x 11m (108' 3" x 36' 1") | | | | | | | | | | | | | | | | | | |
| Packing method | rolled | | | | | | | | | | | | | | | | | | |
| Fire classification | <table border="0"> <tr> <td>UK</td> <td></td> </tr> <tr> <td>USA</td> <td>NFPA 701</td> </tr> <tr> <td>France</td> <td>M2</td> </tr> <tr> <td>Germany</td> <td>B1</td> </tr> <tr> <td>Italy</td> <td>Class 1</td> </tr> <tr> <td>Spain</td> <td>M1</td> </tr> <tr> <td>Japan</td> <td></td> </tr> <tr> <td>Korea</td> <td></td> </tr> <tr> <td>Australia</td> <td></td> </tr> </table> | UK | | USA | NFPA 701 | France | M2 | Germany | B1 | Italy | Class 1 | Spain | M1 | Japan | | Korea | | Australia | |
| UK | | | | | | | | | | | | | | | | | | | |
| USA | NFPA 701 | | | | | | | | | | | | | | | | | | |
| France | M2 | | | | | | | | | | | | | | | | | | |
| Germany | B1 | | | | | | | | | | | | | | | | | | |
| Italy | Class 1 | | | | | | | | | | | | | | | | | | |
| Spain | M1 | | | | | | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | | |
| Korea | | | | | | | | | | | | | | | | | | | |
| Australia | | | | | | | | | | | | | | | | | | | |



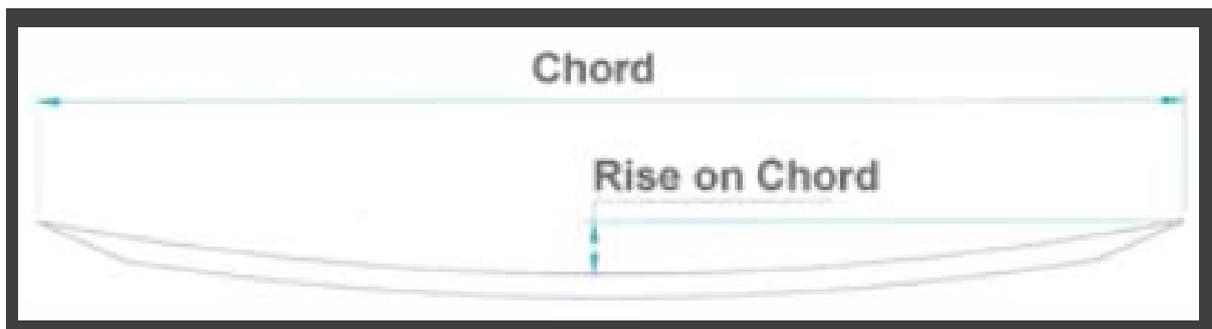
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General Information

Screen shape

Perlux® 220 screens should normally be curved.

For most auditoria, the recommended curvature is to make the depth of curve (rise on chord) 5% of the screen width (chord). SMPTE recommend to curve all gain screens.



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.

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