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**PERLUX® 180**  
**FRONT PROJECTION SCREEN**  
**DATA SHEET**

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Perluxe® screens are considered by leading cinema exhibitors and special venue operators worldwide to be the 'premier' gain projection surface. Perluxe® is a pearlescent white surface providing established high gain characteristics, high contrast, bright pictures, generous viewing angles and excellent colour temperature. Noted for invisible seams under normal projection conditions.

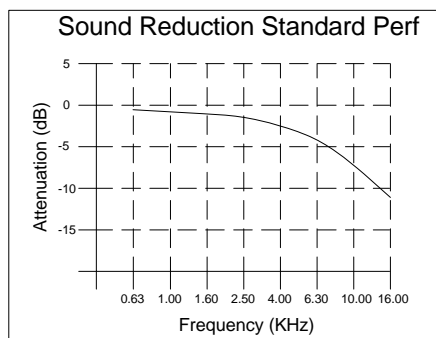
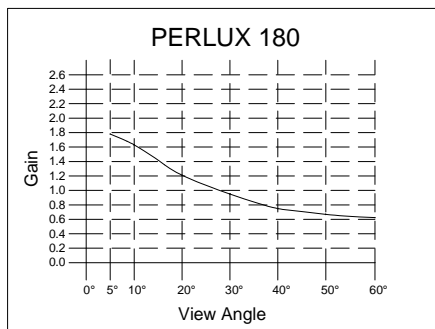
#### Application

Perluxe® 180 is specially developed by Harkness Screens to meet the worldwide demand for a gain surface which folds for ease of transportation, cinema access and installation.

Perluxe® 180 screens are recommended for lace-in stretching into curved frames.

Perluxe® 180+ should be used for roller and wrap-round screens in preference to Perluxe® 180.

Available in full screen perforated form where behind screen speakers are required (see attenuation curve). Mini-perforated and non-perforated options also available.



#### General Detail

**View Distance** Minimum of 5mtr (15') recommended on perforated surfaces

**Maximum Size** USA manufacture 22.94m x 11.87m (75' 3" x 38' 11")

**Perforation Size** Ø1.2mm (0.047")

**Perforation Density** 4.5%

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

**Eyelet Spacing** 150mm (6") nominal

#### 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
- Straight sides or shaped to special order
- Cut square (unfinished edge)

#### Fire Retardancy

Certification to the following standards:

UK BS 5867 Part 2

USA NFPA 701

France M2

Canada CAN ULC S102-2

Japan BT-08-050 (*regulation requires certification by importing company*)

Korea (*regulation requires certification by importing company*)

Australia

#### Typical Packing

Folded in parcel or parcel box up to 90m<sup>2</sup> (1000ft<sup>2</sup>). Wooden crate for larger sizes.

Can also be tube packed (long box over 7m (23')).

#### 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 Perluxe® 180 screen surfaces:

- The auditorium should be clean with no building works taking place.
- Installation should be at ambient temperature (20/24°C-68/75°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 should not be touched (the rear of the screen is identified by the product label).
- Creasing should be minimised during installation.

There are two principal methods to install the screen:

- Flying the screen by attaching several tie lines to the top of the screen, passing these over the top of the frame and using them to pull the screen into place.
- Unrolling the screen vertically across the front of the frame.

Using one of these methods, the screen surface is loosely attached to the top of the frame. After this, the top of the screen is fully attached to the top lacing bar by working from the centre outwards using each eyelet.

The lower edge of the screen should then be laced from the centre outwards, applying sufficient tension to pull the screen flat. Typically, the screen can be stretched up to 5% of its height at ambient temperature of 20/24°C-68/75°F using sisal cord lacing. Side lacing should be from the top down and sufficient to remove the flutes. Excessive side tension should be avoided, particularly on a curved frame, as it will result in straightening of the screen across the curve (belly).

Springs or elasticated ties are not recommended to install Harkness screen surfaces.

The above method can be used for both lace-in and for wrap-round frames. Normally, two people are sufficient to install a screen surface.

#### 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