

## REAR PROJECTION SCREEN SURFACES



Screen surface can be cleaned.



Flame retardant.



Mildew resistant.



Number shows the optimal width of the ideal viewing half angle.



Indicates Goniophotometer reflectance readings. The higher the number, the greater light transmitted to the audience.

Da-Lite offers three types of Rear Projection Screens: diffusion, profiled and flexible fabric screens. Da-Lite's Polacoat Diffusion Screens offer two types of substrates, transparent acrylic (Da-Plex) or glass (Da-Glas) and a choice of six standard and two wide angle extremely fine, precise optical coatings. Da-Lite's profiled screens feature a lens on the back surface which is formed by a series of concentric circular grooves each cut at a different angle. These grooves reduce the incident angles of light rays from the projector making more light available for transmission directly to the audience. Flexible fabric screens are generally used for situations where portability is a prime concern.

Custom gain performances are available upon request.

## Polacoat Diffusion Screens

### Substrates

#### DA-GLAS

A glass substrate for long service life with good optical quality and maximum sound isolation. Standard sizes up to 10' x 20' and larger by request.

#### DA-PLEX

A rigid acrylic substrate for increased breakage resistance. It offers lightweight, high optical quality and good sound isolation. Standard sizes up to 9' x 18' and larger by request.

## Polacoat Optical Coatings

#### DA-100

A neutral gray diffusion coating that provides contrast enhancement while maintaining uniformity and color rendition. Its versatility makes it a good choice for situations with good control over ambient light and where a wide viewing angle is necessary. It is also well suited for high resolution applications.

35° 1.0

#### DA-130

A neutral gray diffusion coating designed to provide a moderate amount of brightness for applications where ambient light is controllable and moderately wide viewing angles are required.

34° 1.3

#### DA-150

A neutral gray screen designed to provide a higher amount of brightness and contrast for situations where a low level of ambient light is present or where a projector with moderate output is utilized.

32° 1.5

#### DA-180

A neutral gray screen offering a higher on-axis gain for situations where a moderate output projector is utilized and where there is a high amount of ambient light present. This coating is well suited for applications where the viewing angles are not wide and a higher gain coating is needed for on-axis viewing.

30° 1.8

#### DA-230

A neutral gray coating with high gain and a moderate viewing angle. The increased gain of this surface makes it suitable for environments where ambient light is uncontrollable and a projector with moderate light output is utilized. Good for situations where the audience is centered within a 50-degree cone from the center of the screen.

25° 2.3

## REAR PROJECTION SCREEN SURFACES

### VIDEO VISION

A special coating process generates a screen ideal for video projection under controlled light conditions. This material offers an exceptionally wide field of view so each audience member will observe a uniform, bright, sharp image with no color shift. This screen material is a good choice when producing video images with a projector that has good black levels.

    55°  1.0

### Wide Angle Polacoat® Optical Coatings

#### DA-75 WA

A light gray diffusion coating with a .75 gain and extremely wide viewing angles. DA-75 WA is designed for use in applications where a short throw lens is required. Due to the increased half angles, DA-75 WA performs well with wide format screens. From the viewer's perspective, side-to-side uniformity of the screen is maximized. Wide angle optical coatings are ideal for edge blending applications.

    78°  0.75

#### DA-100 WA

A light gray diffusion coating that provides a unity gain and especially wide viewing angles. This wide angle optical coating is designed for use in applications where a short throw lens is required. Due to the increased half angles, DA-100 WA performs well with wide format screens. From the viewer's perspective, side-to-side uniformity of the screen is maximized. Wide angle optical coatings are ideal for edge blending applications.

    52°  1.0

### Profiled Type Display Screens

#### POLACOAT ULTRA

This revolutionary screen combines your choice of a Polacoat diffusion coating and a Fresnel lens. This design offers the best center to edge uniformity obtainable from multiple lens projection systems or a single lens projection system utilizing a short throw lens option. Available in sizes up to 125" diagonal. Gain and viewing angle depend on the Polacoat diffusion coating selected.

#### DA-VIEW

A profiled type display screen that offers a bright image at a relatively wide field of view perfect for single image display. This screen is a single element, double profile cast acrylic with a back surface comprising a Fresnel lens and the front surface exhibiting an array of lenticulations. Fresnel grooves have a pitch of .5 mm and the lenticulations have a .28 mm pitch.

    32°  3.5

#### BLACK BEAD

The Black Bead screen provides super high contrast, extended resolution images for the most demanding multi-media, HDTV and computer display applications. The Black Bead screen provides for exceptionally vivid images in even the worst lighting conditions with a very wide viewing angle.

    50°  1.0

#### HOLOSCREEN

The Hologreen has been specifically designed for use in high ambient light environments and point-of-sale applications. The viewer can see a crisp image and see through the screen at the same time. Recommended for use with a projection angle of 18-35°. The Hologreen is designed for use with any single lens projector.


    28°  4.0

## REAR PROJECTION SCREEN SURFACES

### Flexible Fabric Screens

#### DA-TEX

A translucent, neutral gray vinyl fabric that allows rear projection in applications where a rigid acrylic or glass screen are not possible. This specially designed gray vinyl surface offers the same high transmission and low reflectance values as a rigid rear projection screen for optimal viewing. It yields excellent color rendition, image contrast and a wide viewing angle. Ideally suited for both lace and grommet and snap button type screens used in portable installations. This material requires tensioning due to its

flexible nature.  30°  1.8


#### HIGH CONTRAST DA-TEX

High Contrast Da-Tex is a unity gain rear projection surface with a specially designed dark gray tint and is formulated to provide lower black levels for today's high output projectors. This surface features optical characteristics similar to rigid rear projection screens. Ideally suited for both lace and grommet and snap button screens used in portable applications.

 40°  1.0

#### DUAL VISION

A unity gain flexible projection fabric capable of both front and rear projection. The Dual Vision surface is ideal for video projection under controlled light conditions. With an exceptionally wide viewing cone, each seat in the audience will observe a uniform, sharp image with no color shift. Surface requires tensioning due to its flexible nature.

 50°  1.0