

## POLACOAT®



### OPTICAL DIFFUSION COATINGS

#### Video Vision:

A special neutral white coating process produces a unity gain screen which is ideal for video projection under controlled light conditions. With an exceptionally wide viewing cone, each seat in the audience will observe a uniform, bright, sharp, image with even color response.

#### DA-100:

The DA-100 coating is neutral gray in appearance and produces an on-axis gain of 1. This is the most uniform of all diffusion screens with contrast enhancement. This gain is particularly suited to high-resolution applications.

#### DA-130:

The DA-130 coating is neutral gray in appearance and produces a 1.3 on axis gain and a 34° half angle. This coating is best suited in applications requiring moderate gain and viewing angles.

#### DA-150:

A neutral gray screen offering an on-axis gain of 1.5, the DA-150 is a surface well suited for applications whose viewing angles are not large but which can benefit from moderate screen gain.

#### DA-180:

The neutral gray DA-180 screen's center gain is 1.8. This is a particularly good surface when reduced viewing angles can allow for a higher gain performance. The half angle of the DA-180 is approximately ±30° with a generous viewing cone of 60°.

#### DA-230:

The DA-230 is 2.3 gain, neutral gray screen. This screen's half angle is approximately ±24° with a viewing cone of approximately 50°. Because of its higher gain, the DA-230 can successfully compete with larger amounts of ambient room light than lower gain screens.

### WIDE ANGLE POLACOAT® OPTICAL COATINGS

#### DA-75 WA

A light gray diffusion coating with a .75 gain and 78° 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. Ideal for edge blending applications.

#### DA-100 WA

A light gray diffusion coating that provides a unity gain and 52° 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. Ideal for edge blending applications.

**Note: Custom gain screens available upon request.**

### Protek II®

Da-Lite's Polacoat screens are standard with a factory applied protective coating to minimize the possibility of accidental surface damage. Protek II is a very abrasion resistant coating applied to the diffusion coating to minimize accidental surface damage. Incidental contact with markers to the surface can be removed if done quickly with denatured alcohol.

### OPTIONAL TINT

#### High Contrast Tint

This feature can significantly enhance the perceived quality of video images. By making the dark elements of an image appear even darker, perceived contrast is increased.

*Note: Cannot be used with Video Vision coating.*

## POLACOAT® DA-PLEX

### Multi-Purpose Rear Projection Diffusion Screen

- Diffusion coatings are available for all types of applications with any size screen and a wide range of viewing angles.
- Diffusion coating is permanently bonded to the substrate. Cannot peel off like laminated film or vinyl based diffusion screens.
- Factory framing options are offered: Base frame, Standard frame, Deluxe frame and Self-trimming frame.
- Acrylic bases for breakage resistance, lightweight, high optical quality, ease of handling and superior transmission.
- Gain and viewing angle depend on the Polacoat® diffusion coating selected. (See page 92 for options.)



### DA-PLEX VIDEO FORMAT

Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
36" x 48"	91 x 122	60"	152	x	x	x	x	x
40 1/4" x 53 1/4"	102 x 137	67"	170	x	x	x	x	x
43 1/4" x 57 1/4"	110 x 147	72"	183	x	x	x	x	x
50 1/2" x 67 1/4"	128 x 171	84"	213	x	x	x	x	x
57 1/4" x 77"	147 x 196	96"	244	x	x	x	x	x
60" x 80"	152 x 203	100"	254	x	x	x	x	x
72" x 96"	183 x 244	120"	305	x	x	x	x	x
81" x 108"	206 x 274	135"	343	x	x	x	x	x
90" x 120"	229 x 305	150"	381	x	x	x	x	x
99" x 132"	251 x 335	165"	419	x	x	x	x	x
108" x 144"	274 x 366	180"	457	x	x	x	x	x

### DA-PLEX HDTV FORMAT

Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
40 1/2" x 72"	103 x 183	82"	208	x	x	x	x	x
45" x 80"	114 x 203	92"	234	x	x	x	x	x
52" x 92"	132 x 234	106"	269	x	x	x	x	x
58" x 104"	147 x 264	119"	302	x	x	x	x	x
65" x 116"	165 x 295	133"	338	x	x	x	x	x
78" x 139"	198 x 353	159"	404	x	x	x	x	x
94 1/2" x 168"	240 x 427	193"	490	x	x	x	x	x

### DA-PLEX SQUARE FORMAT

Size H x W		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.					
50" x 50"	127 x 127	x	x	x	x	x
60" x 60"	152 x 152	x	x	x	x	x
70" x 70"	178 x 178	x	x	x	x	x
84" x 84"	213 x 213	x	x	x	x	x
96" x 96"	244 x 244	x	x	x	x	x
96" x 120"	244 x 305	x	x	x	x	x
108" x 108"	274 x 274	x	x	x	x	x

## POLACOAT® DA-GLAS

### Multi-Purpose Rear Projection Diffusion Screen

- Diffusion coatings are available for all types of applications with any size screen and a wide range of viewing angles.
- Diffusion coating is permanently bonded to the substrate. Cannot peel off like laminated film or vinyl based diffusion screens.
- Factory framing options are offered: Base frame, Standard frame, Deluxe frame and Self-trimming frame.
- Glass provides flat, rigid base for long service life, maximum sound isolation and structural strength.
- Gain and viewing angle depend on the Polacoat® diffusion coating selected. (See page 92 for options.)



### DA-GLAS VIDEO FORMAT

Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
36" x 48"	91 x 122	60"	152	\$602	\$1160	\$1253	\$1522	\$1528
40 1/4" x 53 1/4"	102 x 137	67"	170	\$755	\$1387	\$1477	\$1768	\$1775
43 1/4" x 57 1/4"	110 x 147	72"	183	\$855	\$1513	\$1620	\$1927	\$1933
50 1/2" x 67 1/4"	128 x 171	84"	213	\$1167	\$1933	\$2053	\$2405	\$2412
57 1/4" x 77"	147 x 196	96"	244	\$1530	\$2403	\$2537	\$2933	\$2940
60" x 80"	152 x 203	100"	254	\$1675	\$2585	\$2723	\$3132	\$3142
72" x 96"	183 x 244	120"	305	\$3245		\$4493	\$4923	\$4982
81" x 108"	206 x 274	135"	343	\$4107		\$5502	\$6042	\$6050
90" x 120"	229 x 305	150"	381	\$4742		\$6235	\$6807	\$6813
99" x 132"	251 x 335	165"	419	\$6137		\$7830	\$8475	\$8485
108" x 144"	274 x 366	180"	457	\$9467			\$11943	

### DA-GLAS HDTV FORMAT

Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
40 1/2" x 72"	103 x 183	82"	208	\$978	\$1708	\$1822	\$2157	\$2163
45" x 80"	114 x 203	92"	234	\$1255	\$2072	\$2197	\$2570	\$2575
52" x 92"	132 x 234	106"	269	\$1808	\$2782	\$2928	\$3308	\$3373
58" x 104"	147 x 264	119"	302	\$2832		\$4040	\$4505	\$4513
65" x 116"	165 x 295	133"	338	\$3540		\$4878	\$5393	\$5402
78" x 139"	198 x 353	159"	404	\$5093		\$6687	\$7293	\$7303
94 1/2" x 168"	240 x 427	193"	490	\$7455		\$9370	\$10083	\$10090

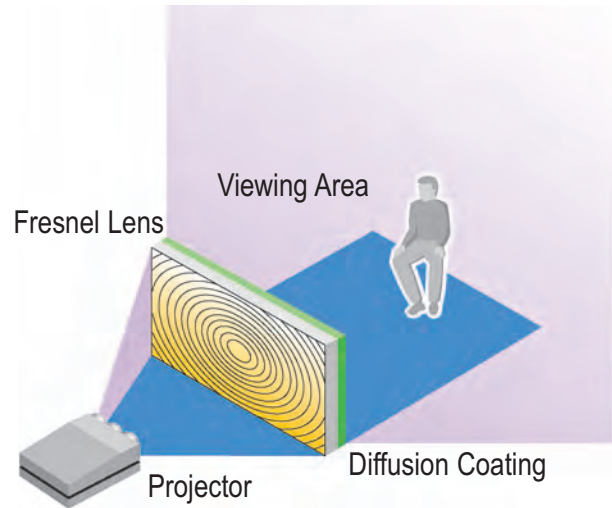
### DA-GLAS SQUARE FORMAT

Size H x W		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.					
50" x 50"	127 x 127	\$870	\$1530	\$1637	\$1945	\$1953
60" x 60"	152 x 152	\$1255	\$2042	\$2162	\$2523	\$2530
70" x 70"	178 x 178	\$1708	\$2622	\$2757	\$3168	\$3177
84" x 84"	213 x 213	\$3312		\$4563	\$5042	\$5048
96" x 96"	244 x 244	\$4330		\$5747	\$6288	\$6298
96" x 120"	244 x 305	\$5410		\$6995	\$7603	\$7613
108" x 108"	274 x 274	\$7512			\$9703	
120" x 120"	305 x 305	\$9275			\$11700	

**POLACOAT® ULTRA**

**Single Element Screen with Combined Properties of a Diffusion and Fresnel Screen**

- The optimum solution for single image viewing, especially video projection.
- Offers wide angle field of view and even brightness with no hot spots or detectable color shift.
- Screen is constructed of one piece acrylic for long life with a 4 mil chemically bonded optical diffusion coating on one side and an integrated Fresnel lens with 1/2mm pitch on the other.
- Optical coating will not turn yellow or peel off.
- Gain and viewing angle depend on the Polacoat® diffusion coating selected. (See page 92 for options.)
- Sizes up to 125" diagonal.



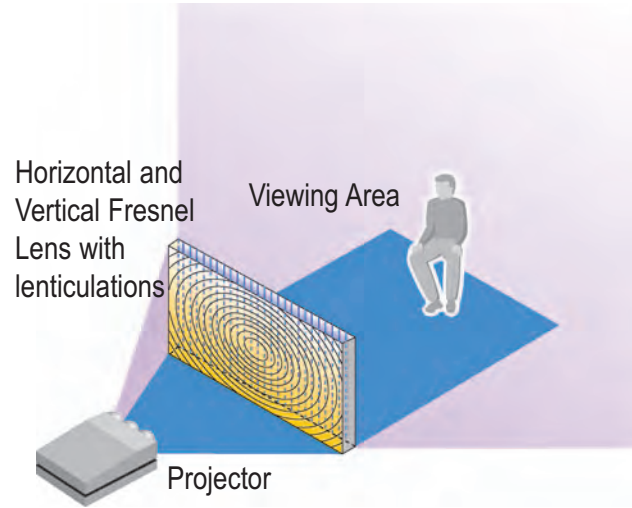
**VIDEO FORMAT**

Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
36" x 48"	91 x 122	60"	152	x	x	x	x	x
40 1/4" x 53 3/4"	102 x 137	67"	170	x	x	x	x	x
43 1/4" x 57 1/4"	110 x 147	72"	183	x	x	x	x	x
50 1/2" x 67 1/4"	128 x 171	84"	213	x	x	x	x	x
54" x 72"	137 x 183	90"	229	x	x	x	x	x
57 3/4" x 77"	147 x 196	96"	244	x	x	x	x	x
60" x 80"	152 x 203	100"	254	x	x	x	x	x
72" x 96"	183 x 244	120"	305	x	x	x	x	x
75" x 100"	191 x 254	125"	318	x	x	x	x	x

## DA-VIEW

### High Gain Profiled Rear Projection Screen for Wide Angle Viewing

- The screen of choice for single image, wide angle viewing applications and low light projection sources.
- Screen consists of a single acrylic layer with a rear Fresnel lens and lenticulated front profile.
- Da-View offers an on axis gain of 3.5 and a 32° viewing half angle.
- Seamless sizes up to 125" diagonal with alternative short or long Fresnel focal lengths offered to match projector lens.



### VIDEO FORMAT

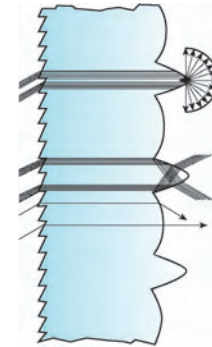
Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
36" x 48"	91 x 122	60"	152	x	x	x	x	x
40 1/4" x 53 1/4"	102 x 137	67"	170	x	x	x	x	x
43 1/4" x 57 1/4"	110 x 147	72"	183	x	x	x	x	x
50 1/2" x 67 1/4"	128 x 171	84"	213	x	x	x	x	x
54" x 72"	137 x 183	90"	229	x	x	x	x	x
57 1/4" x 77"	147 x 196	96"	244	x	x	x	x	x
60" x 80"	152 x 203	100"	254	x	x	x	x	x
72" x 96"	183 x 244	120"	305	x	x	x	x	x
75" x 100"	191 x 254	125"	318	x	x	x	x	x
81" x 108"	206 x 274	135"	343	x	x	x	x	x

## DATA PRO SCREEN

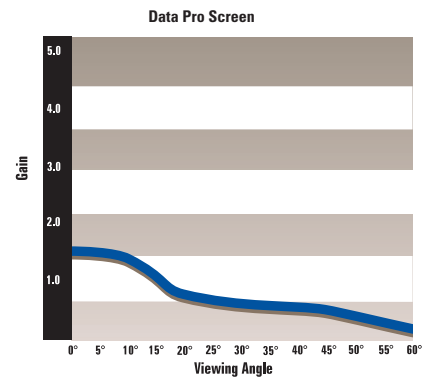
### Data Pro Screen

- Single element, fresnel lenticular screen designed with a very high contrast to compliment today's brighter digital projectors.
- Available in sizes up to 135" diagonal Video (4:3) format unframed, or with Da-Lite's four factory installed framing options.
- Fresnel grooves have a pitch of .19 mm and lenticulations have a pitch of 1/4mm.
- On axis gain of 1.5 and a 20° viewing half angle.

**Rear Side**  
Fresnel lens.  
Refracts projected light directly through the screen.



**Front Side**  
Vertical lenticular lenses for horizontal light distribution.



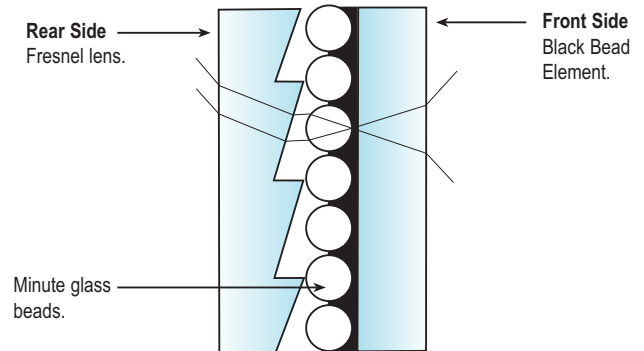
### VIDEO FORMAT

Viewing Area H x W		Nominal Diagonal		Unframed	Base	Standard	Deluxe	Self- Trimming
in.	cm.	in.	cm.					
36" x 48"	91 x 122	60"	152	x	x	x	x	x
40 1/4" x 53 3/4"	102 x 137	67"	170	x	x	x	x	x
43 1/4" x 57 3/4"	110 x 147	72"	183	x	x	x	x	x
50 1/2" x 67 1/4"	128 x 171	84"	213	x	x	x	x	x
54" x 72"	137 x 183	90"	229	x	x	x	x	x
57 3/4" x 77"	147 x 196	96"	244	x	x	x	x	x
60" x 80"	152 x 203	100"	254	x	x	x	x	x
72" x 96"	183 x 244	120"	305	x	x	x	x	x
75" x 100"	191 x 254	125"	318	x	x	x	x	x
81" x 108"	206 x 274	135"	343	x	x	x	x	x

## BLACK BEAD SCREEN

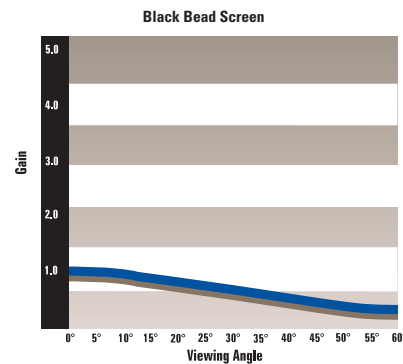
### Black Bead Screen

- Provides high contrast, extended resolution images for the most demanding multi-media, HDTV and computer display applications.
- Double element optical system with one active lens surface.
- The back surface is a Fresnel lens and the front surface is acrylic.
- The fine pitch Fresnel lens distributes the projected image through a Black Bead element consisting of a layer of minute glass beads set within a film of black material.
- The projected light exits through this optical filter, leaving an almost completely black area which absorbs virtually all the ambient light.
- Available in sizes up to 80" diagonal Video (4:3) format unframed.
- On axis gain of 1.0 and a 50° viewing half angle.



### VIDEO FORMAT

Viewing Area H x W		Nominal Diagonal	
in.	cm.	in.	cm.
30" x 40"	76 x 102	50"	127
40 <sup>3</sup> / <sub>4</sub> " x 54"	103 x 137	67"	170
43 <sup>1</sup> / <sub>4</sub> " x 57 <sup>1</sup> / <sub>2</sub> "	110 x 146	72"	183
47" x 63"	119 x 160	80"	203

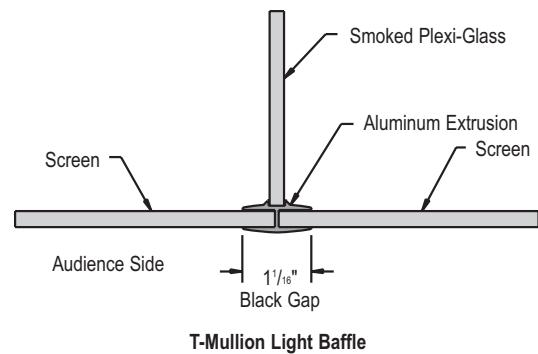
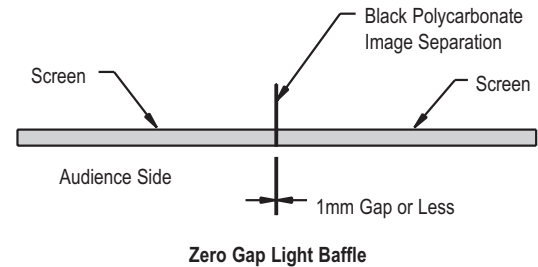


## LIGHT BAFFLES

Light baffles are ideal for use with a multiple screen application contained in a single frame.

Choose the Zero Gap Light Baffle in an edge-to-edge image application. The “wedge” shape allows the projected images to match seamlessly with virtually no visible gap between the screen panels and prevents light from one projected image from spilling over onto the screen panel beside it. To be used with Da-Plex projection screens  $\frac{3}{8}$ " thick up to 60" high or  $\frac{1}{2}$ " thick up to 84" high.

Choose the T-Mullion Light Baffle in an application where separate images are being projected on each screen panel and a small amount of space between each image is desired. The T-Mullion is 1" wide and features a flat black finished. To be used with rigid rear projection screens  $\frac{1}{4}$ " thick up to 60" high,  $\frac{3}{8}$ " thick up to 84" high and  $\frac{1}{2}$ " thick up to 96" high.



### Description

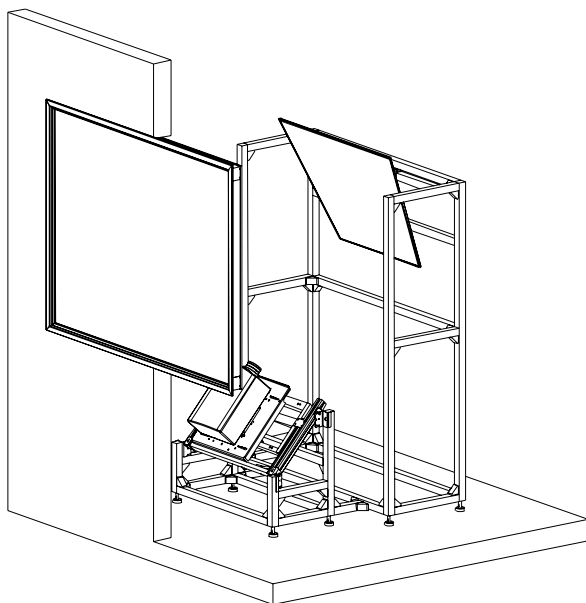
Zero Gap Light Baffle  
T-Mullion Light Baffle



## THRU-THE-WALL SYSTEM (TTW)

The Thru-The-Wall system is a rear projection package that comes complete with a factory framed rear projection screen of your choice and a Rear Projection Module (RPM).

Perfect Image mirror adjustment system is standard.



The Perfect Image mirror adjustment system allows for precise image adjustment to correct barrel distortion and pin cushioning.



### VIDEO FORMAT

Viewing Area H x W		Nominal Diagonal		Da-Plex	Da-Glas	Polacoat® Ultra	Da-View	Data Pro
in.	cm.	in.	cm.					
40 1/2" x 53 3/4"	102 x 137	67"	170	x	x	x	x	x
43 1/4" x 57 1/4"	110 x 147	72"	183	x	x	x	x	x
50 1/2" x 67 1/4"	128 x 171	84"	213	x	x	x	x	x
57 1/2" x 77"	147 x 196	96"	244	x	x	x	x	x
60" x 80"	152 x 203	100"	254	x	x	x	x	x
72" x 96"	183 x 244	120"	305	x	x	x	x	x
81" x 108"	206 x 274	135"	343	x	x			
90" x 120"	229 x 305	150"	381	x	x			

### HDTV FORMAT

Viewing Area H x W		Nominal Diagonal		Da-Plex	Da-Glas	Polacoat® Ultra	Da-View	Data Pro
in.	cm.	in.	cm.					
40 1/2" x 72"	103 x 183	82"	208	x	x	x	x	x
45" x 80"	114 x 203	92"	234	x	x	x	x	x
52" x 92"	137 x 244	106"	269	x	x	x	x	x
58" x 104"	147 x 264	119"	302	x	x		x	x
65" x 116"	165 x 295	133"	338	x	x			
78" x 139"	198 x 353	159"	404	x	x			

*Note: The Thru-The-Wall System includes a black self-trimming frame and one first surface glass mirror up to 58" x 72". Custom quotation is required for larger sizes. Additional charge for Double Mirror System.*

## REAR PROJECTION MODULE (RPM)

- Complete single or double mirror rear projection package that reduces overall depth needed in projection room.
- Precision made, aluminum extrusion based, rear projection module designed specifically to meet the exacting requirements of newer, digital projectors.
- Features our fine tuning projector mount cradle which compensates for minor projector manufacturing and job site inconsistencies by providing a host of additional alignment adjustments.
- All RPM units are custom designed for each application.



True flat trapezoid shaped mirror features a three point suspension system, which ensures superior stability and flatness.



The Perfect Image mirror adjustment system allows for precise image adjustment to correct barrel distortion and pin cushioning.



Frame constructed of square aluminum extrusion for durability and precision.



### REAR PROJECTION MODULE

#### Description

Single Mirror  
Double Mirror

## STAND ALONE

### Stand Alone

- Designed for semi-permanent installations while retaining the ability to easily disassemble for relocation.
- Frame constructed of heavy black anodized aluminum extrusion.
- Standard sizes available for 67" through 100" diagonals, custom sizes available.
- Available as a one or two mirror system.
- Enclosure panels reduce noise intrusion during presentations.



Optional with laminate or carpet cladding.



Optional cooling fans ensure air circulation.



Frame constructed of square aluminum extrusion for durability and precision.



### VIDEO FORMAT

Viewing Area H x W		Nominal Diagonal		Da-Plex	Polacoat® Ultra	Da-View	Black Bead
in.	cm.	in.	cm.				
40 <sup>1</sup> / <sub>4</sub> " x 53 <sup>3</sup> / <sub>4</sub> "	102 x 137	67"	170	x	x	x	x
43 <sup>1</sup> / <sub>4</sub> " x 57 <sup>3</sup> / <sub>4</sub> "	110 x 147	72"	183	x	x	x	x
50 <sup>1</sup> / <sub>2</sub> " x 67 <sup>1</sup> / <sub>4</sub> "	128 x 171	84"	213	x	x	x	
57 <sup>3</sup> / <sub>4</sub> " x 77"	147 x 196	96"	244	x	x	x	
60" x 80"	152 x 203	100"	254	x	x	x	