

Cinescreen® Rigid Rear Screens



Only from Draper.

Draper Cinescreens differ from any other rigid rear projection screens in two *extremely important* respects:

- Cinescreen optical coatings have been formulated to provide *inherent* abrasion resistance. No other manufacturer offers you this protection.
- Only Draper offers you a choice of six different optical coatings, each of which is available in your choice of three unique optical tints. With a Draper Cinescreen, you can select the optimum combination of optical coating and tint based upon your projection equipment, audience seating pattern, desired contrast level, screen aspect ratio, ambient light level and aesthetic considerations. Only Draper offers you this versatility. If you need assistance in determining the ideal optical coating and tint for your particular requirement, contact Draper or your local Draper dealer.

Planning Checklist

When specifying or ordering a Cinescreen, we need to know:

- Dimensions
- Substrate and thickness
- Optical coating and tint
- ArmorKote® or NonGlare, if required
- Factory-installed framing—system number and finish, if required

Substrates

Draper uses the finest plate glass and clear acrylic as Cinescreen substrates. Optical qualities are very similar: today's acrylics have been improved and exhibit slightly better transmission than plate glass. Here are some other distinguishing characteristics:

- **Cineglass®**—Recommended for maximum sound isolation, scratch resistance, service life and lays flatter. Weighs approximately twice as much as acrylic, breaks more easily, must be installed by a glazier. Glass recommended for use with multiple projectors.
- **Cineplex®**—Lightweight, durable and break resistant. Easier to install. Requires more care in cleaning, as acrylic scratches more easily than glass. Less soundproof than glass.

Dimensions & Data—Cinescreen

	Maximum Size	Approx. Unframed Wt. (lbs. per sq. ft.)	
Cineglass®	H x W	Net	Shipping
¼" glass	72" x 96"	3.5	8.5
⅜" glass	120" x 204"	5	10.5
½" glass	120" x 204"	7	12.5
Cineplex®	H x W	Net	Shipping
¼" acrylic	100" x 150"	1.5	6.5
⅜" acrylic	108" x 240"	2.5	7.5
½" acrylic	108" x 240"	3.5	8.5

Ten-Year Warranty

All Draper Cinescreens are covered by a limited 10-year warranty against defects in materials and workmanship. Complete warranty terms will be furnished upon request.



Thomson RCA's Design and Retail Visualization Center, Indianapolis, IN. Installation by SPL Integrated Solutions. Photography by Wayne Williams, Indianapolis, IN.

Optical Coatings

Cinescreens may be furnished with your choice of six optical coatings:

- **Cine 10**—Ultra-wide angle coating for maximum center-to-corner uniformity of projected image: gain 1.0. Suitable for high output projectors.
- **Cine 13**—Gain of 1.3, with extremely broad viewing cone and uniform distribution of projected light. Use with all projection formats, including higher-luminance video and data-graphics projection.
- **Cine 15**—Benchmark wide-angle coating. Gain of 1.5, with uniform distribution of projected light. For all formats, including higher-luminance video projectors.
- **Cine 18**—For medium to wide-angle viewing, with on-axis gain of 1.8. Suitable for all projection formats, including video.
- **Cine 20**—Peak gain 2.0, with a somewhat broader viewing cone than Cine 25. Suitable for relatively high ambient light conditions. For all projection formats, including data, graphics and video.
- **Cine 25**—Suitable for narrow viewing cones and lower output projectors. On-axis gain 2.5. Good image resolution and color reproduction.

Optical Tints

The optical tint is an important modifier of the optical coating. Tint influences image contrast and color value. All six Draper optical coatings are available in 3 optical tints (NG, HC, W), to allow the specifier to select the optimum combination of brightness, viewing angle, and contrast level for the planned installation.

HC—High Contrast (e.g. Cine 13hc)—Dark grey tint. Exceptional contrast and color rendition. Excellent light dispersion properties. Enhances legibility of computer generated data displays with light or bright text against a dark background: dark colors and black are reproduced with remarkable accuracy. HC tint performs equally well with static and moving displays.

NG—Neutral Grey (e.g. Cine 13ng)—Standard formulation. Medium grey tint. Normal contrast levels and good color rendition. Brightness levels are uniform throughout entire viewing cone. Suitable for all projection formats and images. Most commonly used when installation requires equal use of data/video/graphics.

W—White (e.g. Cine 13w)—Neutral white tint. Low contrast levels excellent for home theatres with controlled lighting and calibrating color balance. Enhances the rear screen's ability to reflect a laser pointer beam. Not recommended for computer graphic/data displays. Requires lower ambient light level in audience area.

Be sure to specify NG, HC or W along with the required optical and protective coatings.

Special Coatings

Draper offers optional protective and anti-reflectance coatings for your delicate rear screen:

ArmorKote®—While Draper’s optical coatings are inherently abrasion resistant, you can further insure your Cinescreen against damage by adding ArmorKote treatment. A breakthrough in rear screen protection. Highly resistant to solvents, abrasion and normal impacts of fingernails, pointers, pencils and pens. While ArmorKote will be damaged by repeated or willful abuse through impacts of sharp objects, use as a writing surface, etc., it is an excellent “insurance policy” against accident and error. Virtually impervious to grease, oil and ammonia; very resistant to most solvents, even permanent markers and chalk. ArmorKote is invisible and does not affect image quality. It is by far the toughest rear screen protective coating available.

NonGlare—Applied to the front or viewing side of the screen for anti-reflection properties. Slightly diminishes resolution.

Installation

Draper Cinescreens may be framed at the job site or shipped with a factory-installed Cineframe (detailed below). Cinescreens are usually installed with the coated side facing the audience. The coated side may be installed toward the projector when there are concerns about abuse, with only a slight reduction in image quality.



11132/DRC
BuyLine 3260

Two 73" x 97" Cinescreens. Sacred Heart Church, Sauk Rapids, MN. Installation by SPL Integrated Solutions. Photography by Ted Wentink, Minneapolis, MN.

Specifications—Cinescreen®

Cineglass—Rear projection screens to be Draper Cinescreen, optical coating _____, tint _____, thickness (1/4", 3/8", 1/2"). Base of select quality plate or float glass, with an optical coating not to exceed .004", permanently bonded to one side and inherently abrasion resistant.

Cineplex—Rear projection screens to be Draper Cinescreen, optical coating _____, optical tint _____, thickness (1/4", 3/8", 1/2"). Base of select quality clear acrylic, with an optical coating not to exceed .004", permanently bonded to one side and inherently abrasion resistant. Cineplex screens with System 200 or System 300 Cineframe meet ASTM D702 and B221 test specifications.

All Units—Overall panel size 1/16" from exact overall size specified. Substitute materials submitted and approved prior to bid date. Cinescreen to be mounted with the optically coated side toward the audience area.

Options—Screen to be furnished with ArmorKote abrasion- and solvent-resistant coating over the optical coating. Screen to be furnished with factory installed anodized aluminum frame, System (100/200/300) in (clear/black) finish or System 400 in black finish.

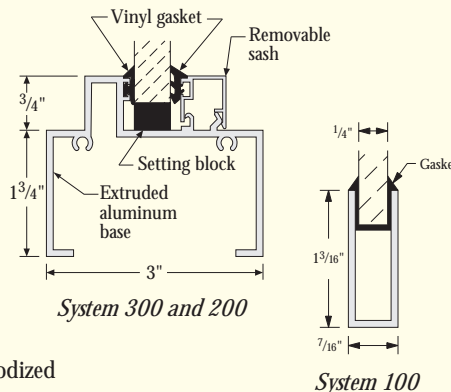
Note to Specifiers—Be sure to specify overall screen size as well as opening size. Draper cannot recommend field cutting or alteration.

Cineframe® For Draper Rear Screens

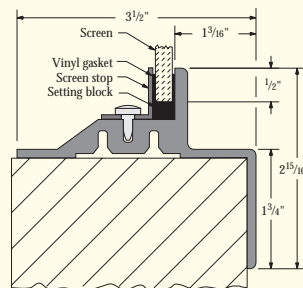
Rigid rear screen installation costs and problems are virtually eliminated with factory-installed Cineframes. Simply place the screen in the finished wall opening, shim into position and trim as desired. Four styles available. All are extruded of 6063-t5 alloy-anodized aluminum.

System 400

System 400 simplifies your installation. Cut a rough opening 1/4" larger than the overall frame size, slide the screen in and bolt into place. No finish carpentry required. System 400 has a 1 3/4" wide dress trim that hides the opening. The audience only sees an attractive frame around a rear screen. Suitable for Cineplex in sizes through 9' x 12' in 3/8" thickness, 1/4" Cineplex in all sizes, IRUS and Vortex in all sizes, DiamondScreen in sizes through 160" diagonal, and 1/4" and 3/8" Cineglass in sizes through 91" x 121". Black finish.



System 100



System 400

System 300

Adds 1/4" to overall size of screen; reduces clear viewing area by 1" in each dimension. Suitable for any Cinescreen 3/8" or 1/2" thick in all sizes. Black or clear anodized finish.

System 200

Same sturdy design as the System 300, extruded to a slightly thinner wall thickness. Adds 1/4" to overall size of screen; reduces clear viewing area by 1" in each dimension. Suitable for 1/4" and 3/8" Cineglass in sizes through 8' x 10', 1/4" and 3/8" Cineplex in all sizes, IRUS and Vortex in all sizes, and DiamondScreen through 160" diagonal. Select black or clear anodized finish.

System 100

Simple, clean frame for smaller rear screens. Adds 1 3/4" to overall height and width of screen; reduces viewing area by 7/8" in each dimension. Suitable for 1/4" Cineglass in sizes through 4' x 5', 1/4" Cineplex, IRUS, DiamondScreen and Vortex in sizes through 100" diagonal. Black or clear anodized finish.