

# Installation Instructions

## Vortex Rear Projection Screen by Draper, Inc.

### **Receiving**

Vortex rear projection screens are shipped in durable wooden crates and are packaged in accordance with accepted packaging standards for this type of material. However, occasionally a shipment will incur freight damage due to particularly rough handling in transit. Therefore, your Vortex screens should be inspected immediately upon delivery.

Any obvious damage should be noted on the freight bill when the shipment is received, while the driver is present. If concealed damage is discovered, notify the delivering carrier immediately! An inspection by a representative of the delivering carrier must be made within 14 days following receipt of shipment. Many carriers do not honor claims for concealed damage unless they are notified within three days. Neither we nor our dealer can accept responsibility for claims arising from merchandise damaged in shipment unless the above procedure is followed.

After inspection has been made, the shipping crate should be sealed until installation.

NOTE: Vortex rear projection screens are extremely delicate. Vortex screens should be handled and stored upright at all times.

### **Unpacking**

All Vortex crates are labelled "AUDIENCE SIDE" and "PROJECTOR SIDE." Use extreme care in unpacking to avoid scratching either the lens or the smooth surfaces. Do not use knives to remove wrapping. Use soft cotton gloves, a soft cloth or tissue paper as a hand pad.

Before removing wrapping, compare the size of the finished aperture with the Vortex panel. Vortex screens should not be cut or altered in the field. Any alteration of a Vortex screen after it leaves our plant automatically voids the product warranty.

### **Installation**

It is imperative that Vortex screens be installed in a framing system with the Fresnel lens (circular pattern) facing the projection source and the smooth side facing the audience.

To obtain optimum image quality, it is essential to adhere to the following guidelines:

- The projector should be mounted to allow the light path to pass from the projector lens through the approximate center of the Vortex screen, to the audience's viewing point, in a straight line.
- Ideally the Vortex screen should be installed perpendicular to the above light path.
- Refer to Vortex specifications for optimum projected throw distance.

NOTE: To comply with these guidelines, the Vortex may be tilted up to 15° if necessary. The Vortex must be mounted securely.

Make sure all other aspects of construction have been completed before Vortex rear projection screen installation, including painting and cleanup. If additional finish work must be done after installation, cover screen with clear polyethylene sheeting until all work has been completed. (In a facility that is still under construction, more protection is warranted, such as a masonite or homocel covering. Hard coverings must not be allowed to contact coated surface directly.)

### **Cleanup**

Dust may be removed from the Vortex surface with a soft clean cloth or by vacuum cleaning with a soft brush. For removal of stains use a mild soap and distilled water solution. Wring free of excess moisture before applying, rinse and blot dry. Do not rub. Do not use solvents of any type without Draper's recommendation.

### **Framing Details**

See page 2 for suggested framing details.

### **Framing Systems**

A wide variety of field-installed framing systems may be used and provided by a source other than Draper. Aluminum, wood and steel are all suitable materials. It is essential that any Vortex rear projection screen be fully isolated from load bearing, and a minimum of  $\frac{3}{8}$ " clearance must be allowed for insertion. Consult a qualified glazing specialist when planning any Vortex field installation. Information about Draper's factory-installed framing system, Cineframe, is on the reverse side.

# DRAPER

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*If you encounter any difficulties installing or servicing your Vortex rear projection screen, call your dealer or Draper, Inc., Spiceland, Indiana, (765) 987-7999, and fax (765) 987-7142.*

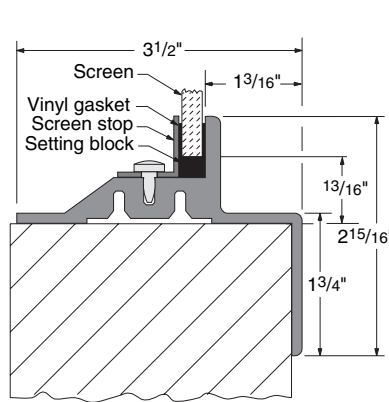
## Optional Factory-Installed Framing Systems for Draper Vortex

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. Three styles available. All are extruded of 6063-T5 alloy anodized aluminum.

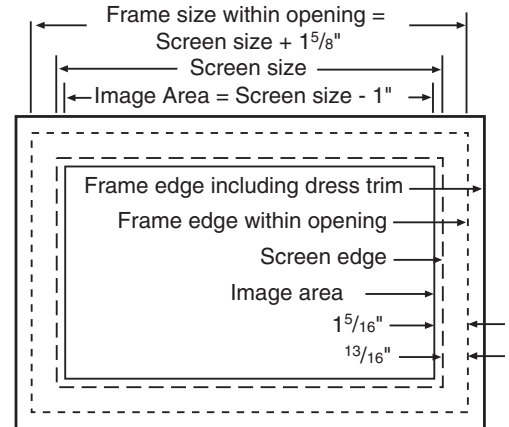
### System 400

System 400 simplifies your installation. Cut a rough opening  $\frac{3}{8}$ " larger than the overall frame size\*, slide the screen in and bolt into place. No finish carpentry required. System 400 has a  $1\frac{3}{4}$ " wide dress trim that hides the opening. The audience only sees an attractive frame around a rear screen. Suitable for Vortex Rear Screens in sizes through 200" diagonal. Black finish. Weighs 1 lb., 7 oz. per lineal foot. Reduces clear image area by 1" in each dimension.

\*Add  $1\frac{5}{8}$ " to overall screen size to calculate the overall size of that portion of the System 400 Cineframe which fits within the rough opening.

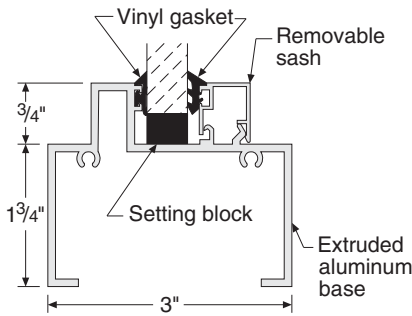


System 400

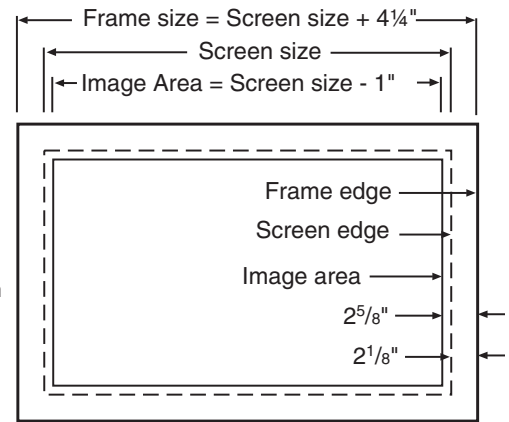


### System 200

Adds  $4\frac{1}{4}$ " to overall size of screen; reduces clear image area by 1" in each dimension. Cut a rough opening  $\frac{3}{8}$ " larger than the overall frame size. Suitable for all sizes of Vortex Rear Screens. Select black or clear anodized black finish. Weighs 1 lb. per lineal foot.

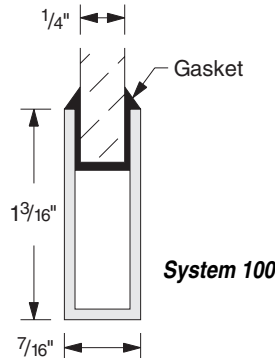


System 200

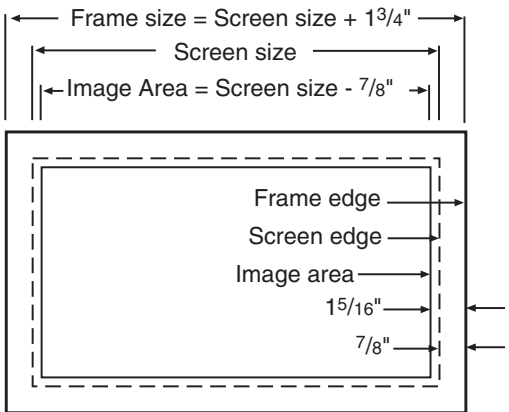


### System 100

Simple, clean frame for smaller Vortex Rear Screens. Cut a rough opening  $\frac{3}{8}$ " larger than the overall frame size. Adds  $1\frac{3}{4}$ " to overall height and width of screen; reduces clear image area by  $\frac{7}{8}$ " in each dimension. Suitable for Vortex Rear Screens in sizes through 100" diagonal. Choice of black or clear anodized finish. Weighs 3 oz. per lineal foot.

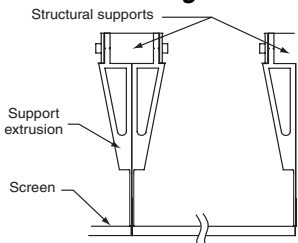


System 100

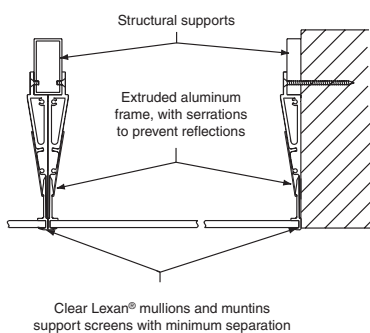


### VideoWall/Multiple Screen Frame Systems

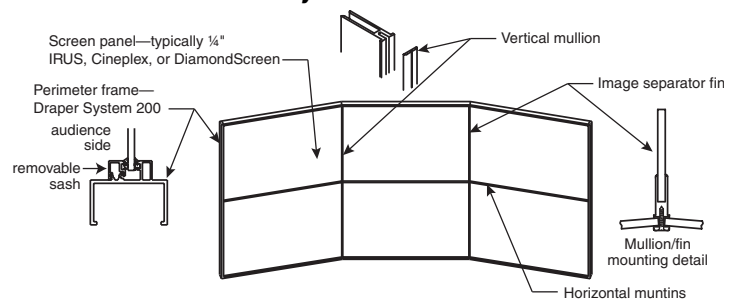
#### Zero Edge



#### Clear Lexan®



#### System 200



### Framing Systems by Others

Field-installed framing systems may be used and provided by others. Steel, wood and aluminum are suitable materials. The Vortex Rear Screen must be isolated from load bearing, and a minimum  $\frac{3}{8}$ " clearance must be allowed for insertion into the opening. Vortex framing systems should allow for acrylic expansion. Consult a qualified glazing specialist.