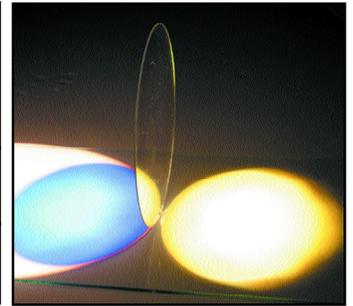


DICHROIC GLASS

PROJECT:	CONTACT:
FIXTURE/WATTAGE/BEAMSPREAD:	
LOCATION:	LENS SIZE:
ACCESSORIES:	COLOR:



Dichroic filters operate using the principle of interference. Alternating layers are built up upon a substrate, selectively reinforcing certain wavelengths of light and interfering with other wavelengths. The layers are usually deposited using a process carried out in a vacuum chamber. By controlling the thickness and number of the layers, the wavelength of the filter can be tuned and made as wide or narrow as desired.

Because unwanted wavelengths are reflected rather than absorbed, dichroic filters don't absorb much energy during operation and so don't become nearly as hot as the equivalent conventional filter (which attempts to absorb all energy except for that in the passband). Dichroics are high in transmission with very pure color. Continuous operating temperature is 200°C. Although dichroics have all of the above stated qualities, we do not recommend using dichroics on any type of flood or Fresnel type fixtures. Dichroic filters have the characteristic of shifting color as the projected light angle is changed, this is known as "halation" or "off axis" color. Special FX Lighting strongly recommends testing dichroics on your fixture in order to assure design integrity.

Substrate

Dichroic glass is manufactured using heat-strengthened borosilicate glass. This substrate will not shatter from heat when used below the maximum operating temperature of 200°C.

1.1-2.2mm thick borosilicate glass up to 30" dia.

3.3mm thick borosilicate up to 15" dia.

Color Selection

Limited colors or combination of colors. Best effort match only. Contact Special FX for color availability.

Order Lead-time

Average order lead-time for standard colors is three weeks after receipt of Purchase Order.

Lead-time for custom colors is four to six weeks.

