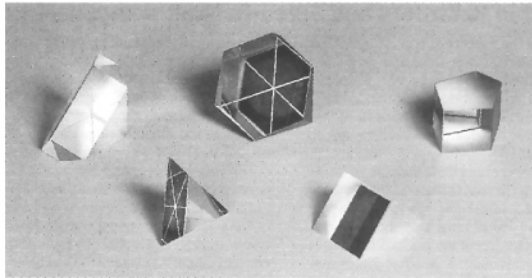


Right Angle Prisms

The 45-45-90 degree prism is the most commonly purchased of all our prisms, and has several applications : to produce 90° reflection of light, to retro-reflect light (Porro prism) and even as a front-surface mirror with the hypotenuse aluminized. The surfaces of these prisms are flat within 1/10-wave. Angles are within 3 minutes. In addition, we select from our production those prisms to be used as the two components in making our SCL-series beamsplitter cubes.



Catalog Number	Square Aperture	Material	Transmission Spectrum
ADV-15	15 mm	CaF ₂	130nm-9.6μm
ADV-25	25 mm	CaF ₂	130nm-9.6μm
ADU-15	15 mm	UV Silica	190nm-2.5μm
ADU-25	25 mm	UV Silica	190nm-2.5μm
AD-15	15 mm	Glass	380nm-2.5μm
AD-25	25 mm	Glass	380nm-2.5μm
AD-51	51 mm	Glass	380nm-2.5μm

MECHANICAL SPECIFICATIONS

Dimensions	+0, -0.1 mm
Angles	± 1-3 minutes
Surface Flatness	1/10-1/20 wave
Polish	10/5
Bevels	0.3 mm X 45°

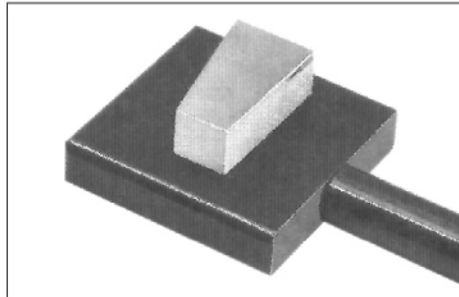
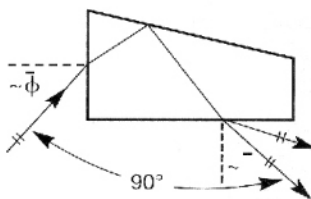
Pellin-Broca Prism

We fabricate Pellin-Broca in CaF₂ for the vacuum-ultraviolet, and in UV-grade fused silica for the ultraviolet and near-infrared. These are designed so that the entrance and exit faces are approximately at Brewster's angle for the design spectrum, thus minimizing reflection losses for p-polarized light.

Catalog Number	Square Aperture	Material	Design Spectrum	Limit of Transmission	Separation $\lambda_2 - \lambda_1$	Brewster's Angle
ADBV-10	10 mm	CaF ₂	130nm-250nm	9.6 μm	~3°	56° - 59°
ADBV-20	20 mm	CaF ₂	130nm-250nm	9.6 μm	~3°	56° - 59°
ADBU-10	10 mm	UV Silica	190nm-425nm	2.5 μm	~7°	56° - 57°
ADBU-20	20 mm	UV Silica	190nm-425nm	2.5 μm	~7°	56° - 57°
ADB-10	10 mm	BK7	380nm-2.5μm	2.5 μm	~2°	56° - 57°
ADB-20	20 mm	BK7	380nm-2.5μm	2.5 μm	~2°	56° - 57°

Note : deviation is complex, please inquire.
 $\lambda_2 - \lambda_1$ refers to design spectrum extremes for example 130/250 nm (ADBV)

PELLIN-BROCA PRISMS : SCHEMATIC



MECHANICAL SPECIFICATIONS

Dimensions	+0, -0.1mm
Angles	± 1-3 minutes
Surface Flatness	1/10-1/20 wave
Polish	10/5
Bevels	0.3 mm X 45°

Dispersion Prism

We fabricate dispersing prisms in CaF₂ for the vacuum-ultraviolet, in UV grade fused silica for the ultraviolet, and in high-dispersion glass for the visible and near-infrared. These are designed so that the entrance and exit faces are approximately at Brewster's angle for the design spectrum, thus minimizing reflection losses for p-polarized light.

BREWSTER'S ANGLE DISPERSING PRISMS SCHEMATIC



MECHANICAL SPECIFICATIONS

Dimensions	+0, -0.1 mm
Angles	± 1-3 minutes
Surface Flatness	1/10-1/20 wave
Polish	10/5
Bevels	0.3 mm X 45°

Catalog Number	Material	Design Spectrum	Limit of Transmission	Separation $\lambda_2 - \lambda_1$	Brewster's Angle	Apex Angle
ABSV-15	CaF ₂	130nm - 250 nm	9.6 μm	~5°	56° - 59°	69.9°
ABSV-25	CaF ₂	130nm - 250 nm	9.6 μm	~5°	56° - 59°	69.9°
ABSU-15	UV Silica	190nm - 425 nm	1.6 μm	~12°	56° - 57°	67.8°
ABSU-25	UV Silica	190nm - 425 nm	1.6 μm	~12°	56° - 57°	67.8°
ABS-15	SF14	380nm - 2.5 μm	2.5 μm	~10°	56° - 57°	60.0°
ABS-25	SF14	380nm - 2.5 μm	2.5 μm	~10°	56° - 57°	60.0°

Note : deviation is complex, please inquire.

$\lambda_2 - \lambda_1$ refers to design spectrum extremes for example 130/250nm (ABSV)