

Fresnel Prisms and Beamsplitters

A Fresnel Prism has a linear structure with constant prism and relief angles. It deflects collimated light at a constant deflection angle.

A Fresnel Beamsplitter also has a linear structure with constant prism and relief angles. These two angles are equal. Collimated light splits into two equal beams and the included angle between the two beams is referred to as the separation angle.

Fresnel Prisms

Designs Available for Manufacture

All dimensions in mm

Part Number	Prism Angle	Facet Spacing	Deflection Angle	Prism Length	Clear Aperture
PR727	11°	0.508	5°	305	165 x 305
PR709	20°	1.016	10°	216	216 x 216
PR723	24°	0.152	12°	140	140 x 140
PR720	31°	1.016	19°	340	340 x 419
PR729	31°	0.152	19°	165	165 x 165
PR719	41°	0.508	23°	100	100 x 200
PR712	41°	0.127	23°	133	133 x 133

Fresnel Beamsplitters

Designs Available for Manufacture

All dimensions in mm

Part Number	Prism Angle	Facet Spacing	Separation Angle	Prism Length	Clear Aperture
PR775	20°	0.508	20°	365	365 x 365
PR703	39°	0.508	42°	310	310 x 310
PR757	45°	1.016	51°	315 Ø	315 Ø
PR713	45°	0.305	51°	330	250 x 330