

Rocky Mountain Instrument Co.

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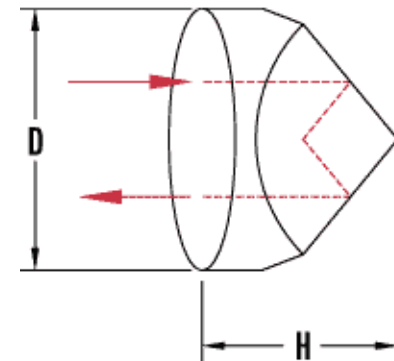
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Prisms » Corner Cube Retro-Reflectors

Corner Cube Retro-Reflectors operate on the principle of total internal reflection (TIR).

A beam entering the effective aperture is reflected by the three roof surfaces and emerges from the entrance / exit surface parallel to itself. This property is independent of orientation of the retro-reflector, within acceptance angle limitations.

For applications in which either the acceptance angle for TIR is exceeded, or the reflecting surfaces cannot be kept sufficiently clean for TIR, a metal or dielectric coating can be applied to the reflecting surfaces.



RMI Standard Specifications

Materials:BK7, UVFS, FS
CaF₂**Surface Figure:**BK7, UVFS, FS:
CaF₂:All polished surfaces:
 $\lambda/20$ at 633 nm
 $\lambda/4$ at 633 nm**Surface Quality:**BK7, UVFS, FS:
CaF₂:All polished surfaces:
10-5
20-10

Dimensional Tolerance:	+ 0.000", – 0.010"
Angular Deviation:	180°
Bevels:	minimum safety bevel on all edges; apex unbeveled
Clear Aperture:	Exceeds central 85% of diameter

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The cornerstone of the RMI service philosophy is a collaborative approach with our customers to solve even the most technically challenging requirements. Working with clients in the early stages of development, we transition prototype concepts to efficient and manufacturable solutions.

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