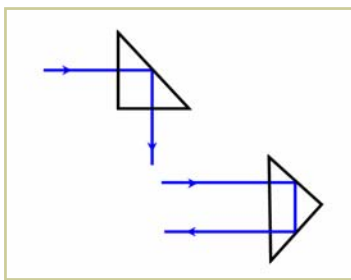


# Right Angle Prisms

Right angle prisms make useful reflecting elements in any optical system. They are convenient to mount and can be used for both 90° and 180° beam bending.



Light incident normal to one of the faces is totally internally reflected at the next face producing high efficiency reflection even without coating.

However, in order to accommodate a wider range of input angles, coating the reflecting face is recommended. Entrance and exit faces should also be anti-reflection coated.

Three different materials are offered:

UVFS ( $n_d=1.458$ )

BK7 ( $n_d= 1.517$ )

SF2 ( $n_d=1.648$ )

These prisms are offered with four coating options:

**U** - Uncoated – no coating at all

**B** - AR on legs – no coating on hypotenuse

**A** – AR on legs – protected Al on hypotenuse



**F** – AR on hypotenuse – protected Al on legs

We can supply right angle prisms in a wide range of sizes including: 1.5, 2.0, 3.0, 3.2, 4.0, 5.0, 6.0, 6.35, 8.0, 10.0, 12.7, 15.0, 20.0, 25.4, 38.1, 50.8 or 76.2 mm.

Often right angle prisms are used as substrates for special coatings. They may also be cemented together to form beamsplitter cubes. We will be pleased to consider any special request for prism coating and assembly.

Typical Specifications	
Material:	UVFS, BK7, SF2
Surface flatness:	$\lambda/8$ @ 633 nm
Surface quality:	20/10
Angle tolerance:	< 3 arcmin
Perpendicularity:	< 5 arcmin
Dimensions:	+0.0 / -0.2 mm
AR coating:	R > 0.25% per face
Clear aperture:	> 85% of face

**To request a quote or to order, please specify:**

Quantity — Material — Size — Coating (U,B,A,F)

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For a quotation — please phone, fax or email us with details of your requirements.