

**TECHSPEC® 10mm Aluminum & UV-VIS, Fused Silica High Tolerance RA Prism**



TECHSPEC High Tolerance UV Fused Silica Right Angle Prisms

Stock **#47-801** **20+ In Stock**

⊖ 1 ⊕ £112<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£112.80 each
Qty 6-25	£90.40 each
Qty 26-49	£84.60 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

+0.0/-0.1 **Dimensional Tolerance (mm):**

**Bevel:**

Protective as needed

Length of Hypotenuse (mm):

14.10

Length of Legs (mm):

10.00

## Optical Properties

Angle Tolerance (arcsec):

±40

Coating:

UV-VIS & Aluminized

Substrate:

Fused Silica (Corning 7980)

Surface Quality:

20-10

Pyramid Tolerance (arcmin):

±1

Image Orientation:

Left-Handed

Coating Specification:

Legs:  $R_{abs} \leq 1.0\%$  @ 350 - 450nm,  $R_{avg} \leq 1.5\%$  @ 250 - 700nm  
Hypotenuse:  $R_{avg} > 85\%$  @ 400 - 700nm w/Black Overpaint

Wavelength Range (nm):

250 - 700

Damage Threshold, By Design:

Hypotenuse: 0.3 J/cm<sup>2</sup> @ 532 & 1064nm, 10ns  
Legs: 3 J/cm<sup>2</sup> @ 355nm, 10ns; 5 J/cm<sup>2</sup> @ 532nm, 10ns

Power (fringes) @ 632.8nm:

1.25

Irregularity (fringes) @ 632.8nm:

0.20

## Regulatory Compliance

Certificate of Conformance:

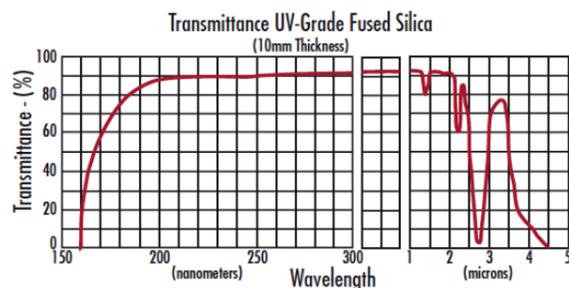
[View](#)

## Product Details

- Ray Deviation of 90°
- Left Handed Image
- ±40 Arcseconds Angle Tolerance
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® High Tolerance UV Fused Silica Right Angle Prisms, like most right angle prisms, are used to bend image paths or redirect light at 90°. This produces a left-handed image and depending on the orientation of the prism, the image may be inverted or reverted. Right angle prisms can also be used in combination for image/beam displacement. TECHSPEC® High Tolerance UV Fused Silica Right Angle Prisms feature low arcsecond angle tolerance and are made from precision UV fused silica for use in a variety of UV, Visible and NIR applications. The prisms are offered in leg lengths from 5 to 25mm.

## Technical Information



UV FS Transmission Curve

## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

