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TECHSPEC® 50mm, Uncoated, Fused Silica, Right Angle Prism



TECHSPEC UV Fused Silica Right Angle Prisms

Stock **#47-789** **20+ In Stock**

⊖ 1 ⊕ €301⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€301,00 each
Qty 6-25	€241,00 each
Qty 26-49	€225,75 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Right Angle Prism **Type:**

Physical & Mechanical Properties

±0.10 Legs **Dimensional Tolerance (mm):**

Bevel:

Protective as needed

Length of Hypotenuse (mm):

70.70

Length of Legs (mm):

50.00

Optical Properties

Coating:

Uncoated

Substrate:

Fused Silica (Corning 7980)

Surface Quality:

60-40

Angle Tolerance (arcmin):

±5

Pyramid Tolerance (arcmin):

±5

Image Orientation:

Left-Handed

Ray Deviation (°):

90

Wavelength Range (nm):

200 - 2200

Power (fringes) @ 632.8nm:

1.25

Irregularity (fringes) @ 632.8nm:

0.25

Regulatory Compliance

RoHS 2015:

Compliant

Reach 219:

Compliant

Certificate of Conformance:

[View](#)

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

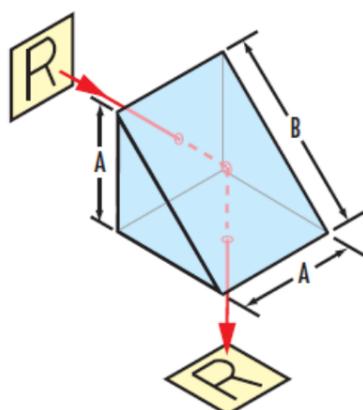
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

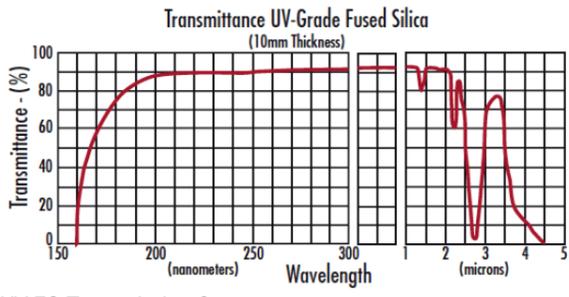
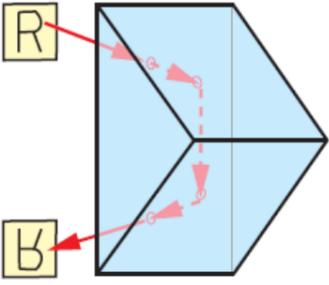
Product Details

- Ideal for Broadband Applications
- Available with Aluminized and AR Coated Faces
- Sizes Ranging from 5 - 50mm
- Additional [Right Angle Prism](#) Options Available

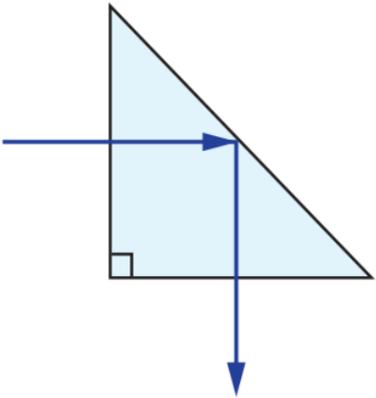
TECHSPEC® Fused Silica Right Angle Prisms are ideal for broadband applications. Right angle prisms are generally used to bend image paths or redirect light at 90°. This produces a left-handed image and depending on the orientation of the prism, the image may be inverted or reverted. Right angle prisms can also be used in combination for image/beam displacement. TECHSPEC® Fused Silica Right Angle Prisms are made from UV fused silica which features low thermal expansion and excellent transmission throughout the UV, visible, and NIR spectral ranges. The prisms are available in lengths ranging from 5 to 50mm.

Technical Information

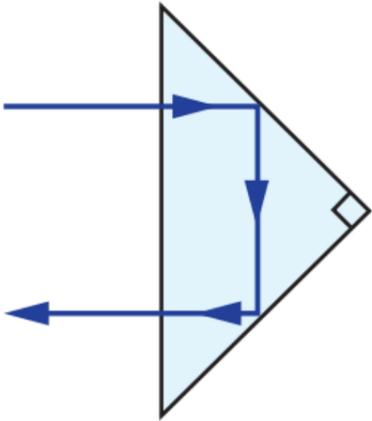




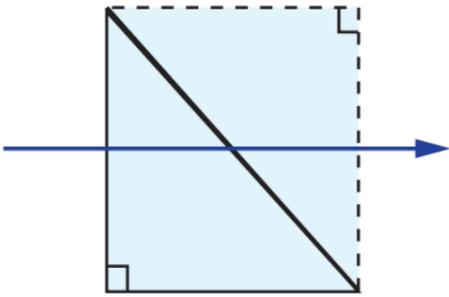
UV FS Transmission Curve



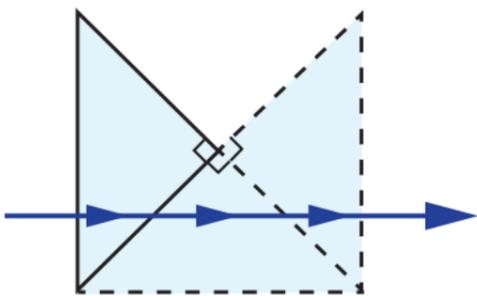
Right Angle Prism Ray Path



Right Angle Prism Ray Path

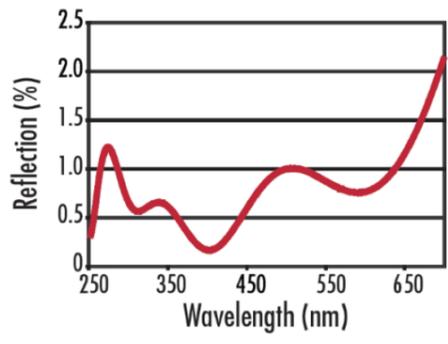


Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram

UV-VIS Coating
R_{abs} < 1.0% @ 350 - 450nm, R_{avg} < 1.5% @ 250 - 700nm
Damage Threshold, Reference: 3J/cm² @ 355nm, 10ns, 10Hz
5J/cm² @ 532nm, 10ns



MgF₂ Coating
R_{avg} ≤ 1.75% @ 400 - 700nm
Damage Threshold, Reference: 10J/cm² @ 532nm, 10ns, 10Hz

