

TECHSPEC® 20mm Aluminum & UV-VIS, Ultra Precision UV Fused Silica Right Angle Prism



Stock #39-844 **1 In Stock**

⊖ 1 ⊕ **\$\$519⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1-5	\$\$519.40 each
Qty 6-25	\$\$415.80 each
Qty 26-49	\$\$389.55 each
Need More?	Request Quote

Product Downloads

General

Right Angle Prism **Type:**

Physical & Mechanical Properties

Dimensional Tolerance (mm):
+0.00/-0.10

Bevel:
Protective as needed

90 Clear Aperture (%):

28.30 Length of Hypotenuse (mm):

20.00 Length of Legs (mm):

Optical Properties

±15 Angle Tolerance (arcsec):

UV-MS & Aluminized Coating:

Fused Silica (Corning 7980) Substrate:

20-10 Surface Quality:

±1 Pyramid Tolerance (arcmin):

Left-Handed Image Orientation:

Coating Specification:
Legs: $R_{abs} \leq 1.0\%$ @ 350 - 450nm, $R_{avg} \leq 1.5\%$ @ 250 - 700nm
Hypotenuse: $R_{avg} > 85\%$ @ 400 - 700nm, $R_{avg} > 90\%$ @ 400 - 2000nm w/Black Overpaint

250 - 700 Wavelength Range (nm):

$\lambda/20$ Surface Flatness (P-V):

Damage Threshold, By Design:
Hypotenuse: 0.3 J/cm^2 @ 532 & 1064nm, 10ns
Legs: 3 J/cm^2 @ 355nm, 10ns; 5 J/cm^2 @ 532nm, 10ns

Regulatory Compliance

Compliant RoHS 2015:

View Certificate of Conformance:

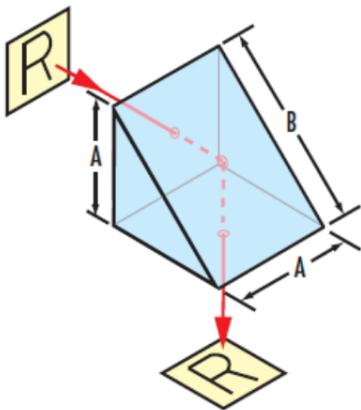
Compliant Reach 235:

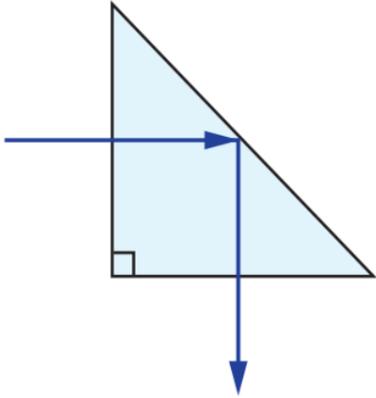
Product Details

- $\lambda/20$ Surface Flatness
- UV Fused Silica Substrate
- Laser Optic Quality

TECHSPEC® $\lambda/20$ UVFS (Ultraviolet Fused Silica) Right Angle Prisms feature precision specifications for the most demanding applications. These prisms are tailored for laser applications with surface flatness of $\lambda/20$ and surface quality of 20-10. Our TECHSPEC® $\lambda/20$ UVFS Right Angle Prisms feature industry leading ± 15 arcsecond angular tolerances for guaranteed control of optical path. The UV Fused Silica substrate offers extended range deep into the UV.

Technical Information





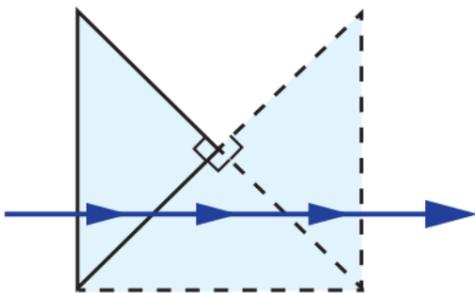
Right Angle Prism Ray Path



Right Angle Prism Ray Path



Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram

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](#).