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TECHSPEC[®] 12.5mm Dia. 4° Beam Dev. Fused Silica Wedge Prism 1064nm Laser V-Coat



TECHSPEC Fused Silica Wedge Prisms

Stock **#39-128** CLEARANCE **2 In Stock**

-

1

+

C\$152⁰⁰

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General

Note:
Specify this is S1 & S2 power and irregularity, not the overall power of the wedge

Physical & Mechanical Properties

Diameter (mm):
12.50

Thickness (mm):
1.50

Bevel:
Protective as needed

8° 17' 38"		Wedge Angle (arcmin):
Optical Properties		
30		Angle Tolerance (arcsec):
Laser V-Coat (1064nm)		Coating:
1064		Design Wavelength DWL (nm):
Fused Silica (Corning 7980)		Substrate: ☐
20-10		Surface Quality:
Beam Deviation		Image Orientation:
R _{abs} <0.25% @ 1064nm		Coating Specification:
15 J/cm ² @ 1064nm, 20ns, 20Hz		Damage Threshold, By Design: ☐
0.50		Power (fringes) @ 632.8nm:
0.20		Irregularity (fringes) @ 632.8nm:
4.00		Ray Deviation @ 355nm (°):
6.99		Power (diopters):
8.29°		Wedge Angle (°):
Material Properties		
0.52		Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
Regulatory Compliance		
Compliant		RoHS 2015:
Compliant		Reach 209:
View		Certificate of Conformance:

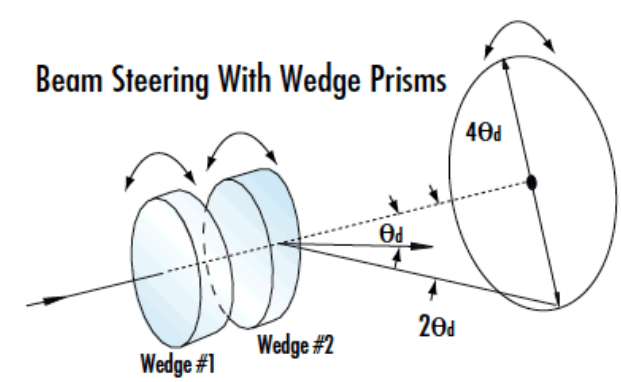
Product Details

- Deviates Laser Beam Path from 0.5° - 5.0°
- Ideal for UV to NIR Beam Steering Applications from 250 to 1064nm
- Ideal for High Power Beam Steering Applications

TECHSPEC® Fused Silica Wedge Prisms are designed for a range of laser beam steering applications requiring UV-VIS or first through fourth Nd:YAG harmonic Anti-Reflection Coatings. They are optimized to ensure the highest level of system performance using tightly controlled specifications including *N*/10 surface flatness, 20-10 surface quality, and a wedge tolerance of 15 or 30 arcseconds. The Nd:YAG coated versions feature high transmittance and guaranteed laser damage thresholds specific to the design wavelength. TECHSPEC® Fused Silica Wedge Prisms utilize a wedge design to deviate laser beam path from 0.5° – 5°. By creating a risley prism pair using two wedge prisms with the same ray deviation, custom beam steering up to two times the wedge deviation is possible. A low coefficient of thermal expansion ensures accurate beam steering in high power laser applications.

Note: Power Diopter is defined as 1cm deviation at a distance of 1m from the prism. TECHSPEC® Wedge Prisms are also available in [N-BK7 versions](#).

Technical Information





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

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