

TECHSPEC[®] 30mm, MgF₂ Coated, Penta Prism



Stock **#45-073** 20+ In Stock

-

1

+

€139^{.05}

ADD TO CART

Volume Pricing	
Qty 1-5	€139,05 each
Qty 6-25	€111,24 each
Qty 26-49	€105,06 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Penta Prism

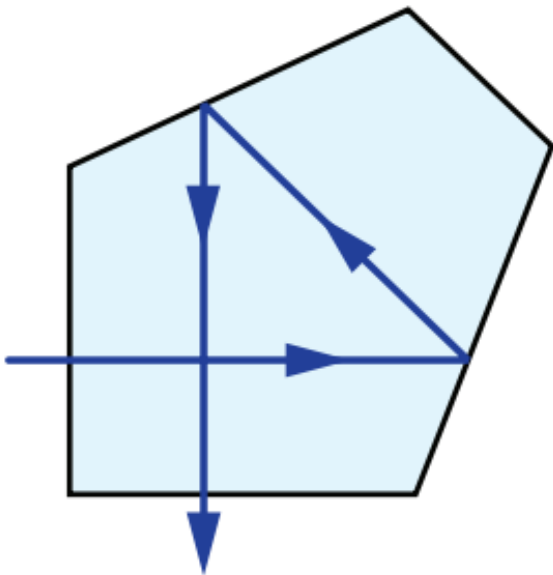
Type:

Physical & Mechanical Properties	
30.00	Length (mm):
±0.10	Dimensional Tolerance (mm):
Protective as needed	Bevel:
30.00	Length of Legs (mm):
Optical Properties	
MgF ₂ & Aluminized	Coating:
N-BK7	Substrate: ☐
60-40	Surface Quality:
Right-Handed	Image Orientation:
Entrance/Exit Faces: R _{avg} ≤1.75% @400 - 700nm Reflecting Surfaces: Aluminized, Inconel & Black Paint	Coating Specification:
90	Ray Deviation (°):
400 - 700	Wavelength Range (nm):
Entrance & Exit Faces: 10 J/cm ² @ 532nm, 10ns Reflecting Surfaces: 0.3 J/cm ² @ 532 & 1064nm, 10ns	Damage Threshold, By Design: ☐
±5	Beam Deviation Tolerance (arcmin):
1.00	Power (fringes) @ 632.8nm:
0.25	Irregularity (fringes) @ 632.8nm:
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 223:
View	Certificate of Conformance:

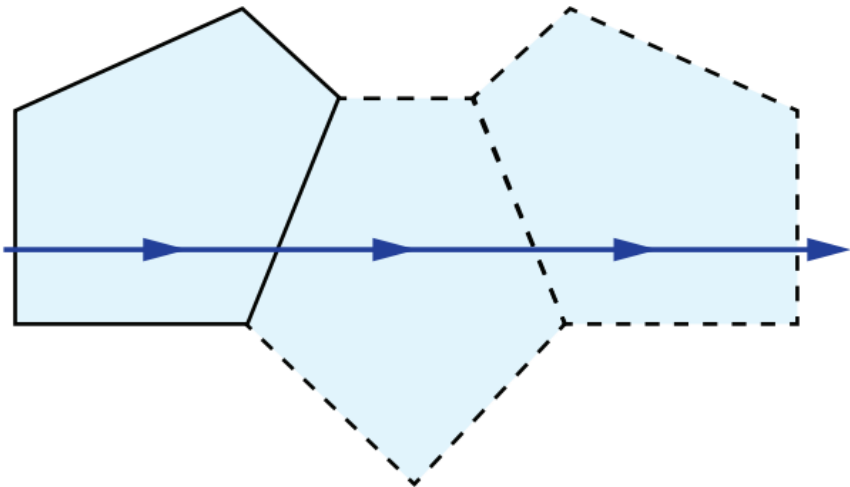
PRODUCT DETAILS

- Ray Deviation of 90°
 - Right Handed Image
 - Optical Tool for Defining a Right Angle
 - Additional [Penta Prism](#) Options Available
- TECHSPEC® N-BK7 Penta Prisms are five-sided prisms featuring a ray deviation of 90° and a right-handed image. The reflecting surfaces are aluminized. Slight movement of the prism does not affect the true right angle at which light rays are reflected, making a penta prism the ideal optical tool for defining a right angle in an optical system. TECHSPEC® N-BK7 Penta Prisms are made from precision N-BK7 for use in a variety of visible light applications. These prisms are offered with a VIS 0° or MgF2 coating, in a variety of sizes.

TECHNICAL INFORMATION

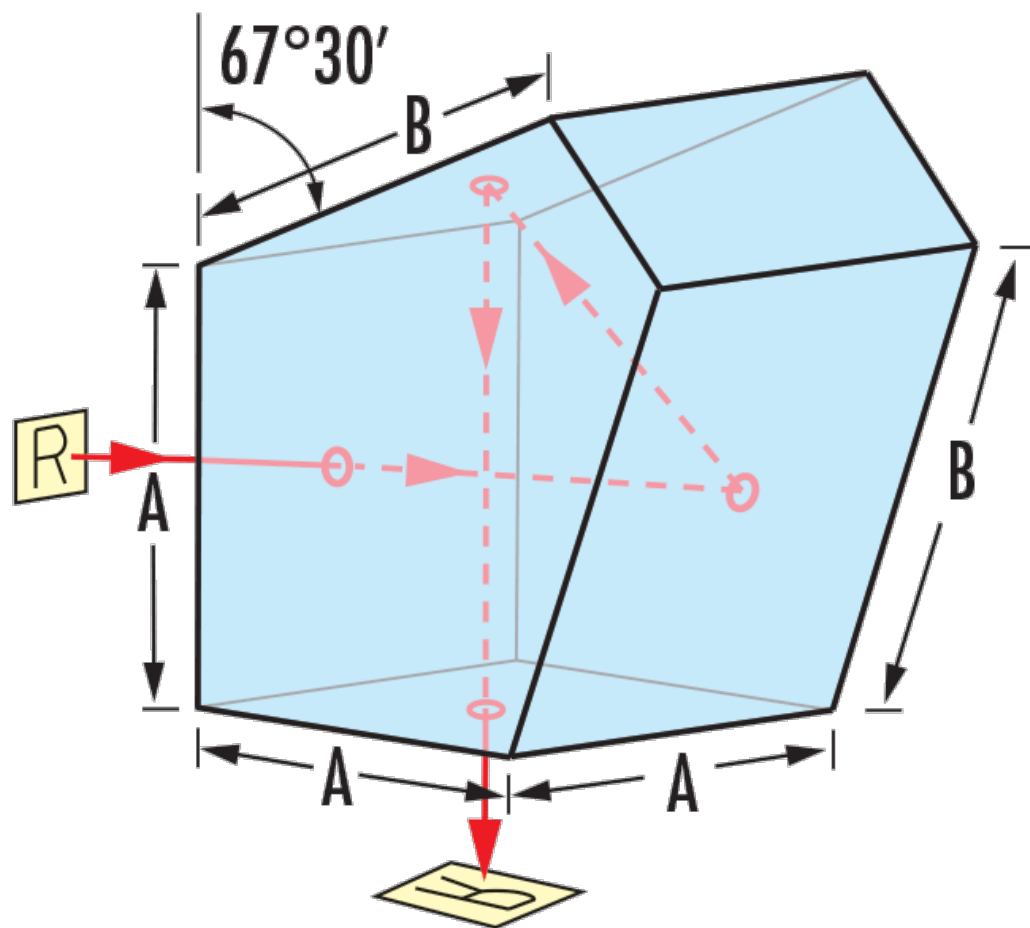


Penta Prism Ray Path



Penta Prism Tunnel Diagram

Stock No.	Coating	Dimensions	
		A	B
#85-159	VS 0°	0.50	0.60
#85-160	VS 0°	1.00	1.20
#45-112	MgF ₂	5.00	6.10
#48-595	VS 0°		
#32-030	MgF ₂	10.00	11.95
#48-596	VS 0°		
#43-502	MgF ₂	15.00	15.96
#48-597	VS 0°		
#31-051	MgF ₂	20.00	21.65
#48-598	VS 0°		
#42-779	MgF ₂	25.00	27.90
#47-458	MgF ₂		
#48-599	VS 0°	30.00	32.47
#45-073	MgF ₂		
#48-600	VS 0°	35.00	37.88
#45-402	MgF ₂		
#48-601	VS 0°	40.00	43.30
#45-674	MgF ₂		
#48-602	VS 0°	45.00	48.71
#45-675	MgF ₂		
#48-603	VS 0°	50.00	54.12
#45-676	MgF ₂		
#47-459	MgF ₂		
#48-604	VS 0°		



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](#).