

TECHSPEC® 50mm, VIS 0° Coated, Rhomboid Prism



Stock #49-423 8 In Stock

-

1

+

€426<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €426,00 each                  |
| Qty 6-25       | €341,00 each                  |
| Qty 26-49      | €320,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

!

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Rhomboid Prism

Physical & Mechanical Properties

Length (mm):

50.00

Dimensional Tolerance (mm):

±0.1

| Optical Properties                                                                                     |                                     |
|--------------------------------------------------------------------------------------------------------|-------------------------------------|
| ±5                                                                                                     | Angle Tolerance (arcsec):           |
| ±30                                                                                                    | Beam Deviation (arcsec):            |
| MS 0° (425-675nm)                                                                                      | Coating:                            |
| N-BK7                                                                                                  | Substrate: <input type="checkbox"/> |
| 40-20                                                                                                  | Surface Quality:                    |
| Beam Deviation                                                                                         | Image Orientation:                  |
| R <sub>avg</sub> ≤0.4% @ 425 - 675nm                                                                   | Coating Specification:              |
| 0                                                                                                      | Ray Deviation (°):                  |
| 425 - 675                                                                                              | Wavelength Range (nm):              |
| Damage Threshold, Reference: <input type="checkbox"/><br>Entrance/Exit Surfaces: 5 J/cm² @ 532nm, 10ns |                                     |
| 1.25                                                                                                   | Power (fringes) @ 632.8nm:          |
| 0.25                                                                                                   | Irregularity (fringes) @ 632.8nm:   |

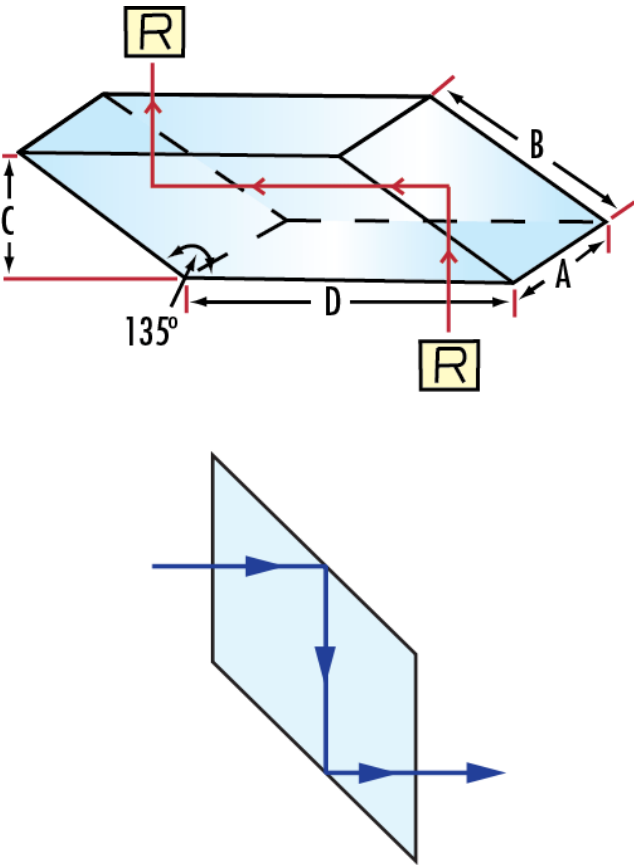
| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
| Compliant             | RoHS 2015:                  |
| Compliant             | Reach 219:                  |
| View                  | Certificate of Conformance: |

## Product Details

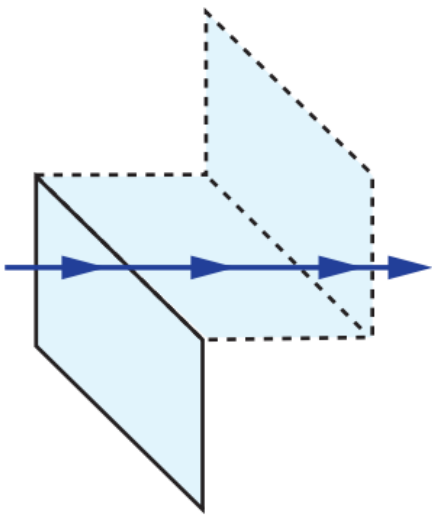
- Lateral Displacement of Beam
- Displaces Optical Axis Without Inverting Image
- Input and Output Beams Parallel to ±30 Arcseconds
- Beam Displacing [Dove Prisms](#) Also Available

TECHSPEC® Rhomboid prisms are commonly used to displace a laser beam without changing its direction. In imaging applications, rhomboid prisms will displace the optical axis without inverting the image. The lateral displacement is equal to the length of the prism (specified by dimension D). TECHSPEC® Rhomboid Prisms feature high tolerance angles that keep the output beam parallel to the input beam to within 30 arcseconds. They are ideal for demanding displacement applications.

## Technical Information

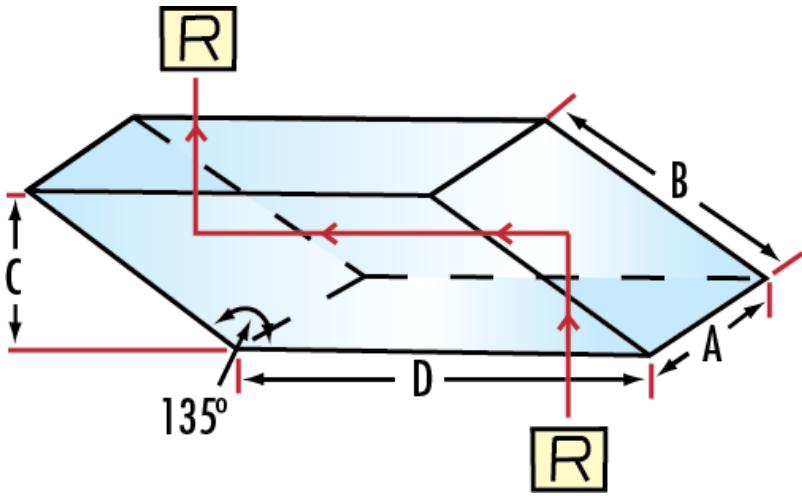


Rhomboid Prism Ray Path



Rhomboid Prism Tunnel Diagram

| Stock No. | A      | B      | C      | D      |
|-----------|--------|--------|--------|--------|
| #47-625   | 5mm    | 5mm    | 3.5mm  | 7.1mm  |
| #47-806   |        |        |        |        |
| #47-213   | 10mm   | 10mm   | 7.1mm  | 14.1mm |
| #47-807   |        |        |        |        |
| #49-418   | 12.5mm | 12.5mm | 8.8mm  | 17.5mm |
| #49-421   |        |        |        |        |
| #49-419   | 15mm   | 15mm   | 10.5mm | 21.2mm |
| #49-422   |        |        |        |        |
| #47-214   | 20mm   | 20mm   | 14.2mm | 28.3mm |
| #47-808   |        |        |        |        |
| #47-626   | 25mm   | 25mm   | 17.7mm | 35.4mm |
| #47-809   |        |        |        |        |
| #49-420   | 50mm   | 50mm   | 35.4mm | 70.7mm |
| #49-423   |        |        |        |        |



Coating Curves

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](#).