

**TECHSPEC® 12.7mm Aluminum Coated, Fused Silica Corner Cube**



Stock **#49-013** **20+ In Stock**

⊖ 1 ⊕ **\$583<sup>.00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-5	<b>\$583.80</b> each
Qty 6-25	<b>\$466.20</b> each
Qty 26-49	<b>\$438.20</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Retroreflector

Type:

Black Overpaint is 30-60 µm Thick

Note:

**Physical & Mechanical Properties**

12.70 +0.00/-0.10

Diameter (mm):

10.16 **Height (mm):**

90 **Clear Aperture (%):**

±0.25 **Height Tolerance (mm):**

## Optical Properties

5 **Beam Deviation (arcsec):**

Aluminum with protective overcoat **Coating:**

[Fused Silica](#) (Corning 7980) **Substrate:**

20-10 **Surface Quality:**

Left-Handed **Image Orientation:**

Reflective Surfaces:  $R_{avg} > 85\%$  FROM 400-700nm, @ 45° AOI **Coating Specification:**

180 **Ray Deviation (°):**

400 - 700 **Wavelength Range (nm):**

Reflective Surfaces: 0.3 J/cm<sup>2</sup> @ 532nm & 1064nm, 10ns **Damage Threshold, Reference:**

0.20 **Power (fringes) @ 632.8nm:**

0.20 **Irregularity (fringes) @ 632.8nm:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

### Need different specs or modifications?

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

- Incident Light is Reflected Back to the Source
- Excellent Transmission in UV
- Useful for Surveying and Alignment
- Additional [Corner Cube Retroreflectors](#) Available

TECHSPEC® UV Fused Silica Corner Cube Retroreflectors are designed to reflect any ray or beam entering the prism face, regardless of the orientation of the prism, back onto itself. A mirror will only do that at the normal angle of incidence. As a result, corner cube retroreflectors are ideal where precision alignment is difficult or time-consuming. TECHSPEC® UV Fused Silica Corner Cube Retroreflectors feature three total internal reflections and will function even at very large angles of incidence. These retroreflectors are made from UV Fused Silica which features low thermal expansion and excellent transmission throughout the UV, VIS, and NIR spectral ranges.

## Technical Information

A (mm)	B (mm)	Stock No. Uncoated	Stock No. Aluminum Coated
7.16	6.1	<a href="#">#49-008</a>	<a href="#">#49-012</a>
12.7	10.16	<a href="#">#49-009</a>	<a href="#">#49-013</a>
25.4	19.05	<a href="#">#49-010</a>	<a href="#">#49-014</a>
50.8	38.1	<a href="#">#49-011</a>	<a href="#">#49-015</a>

