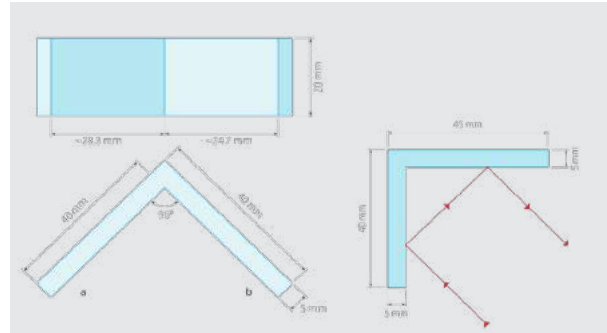
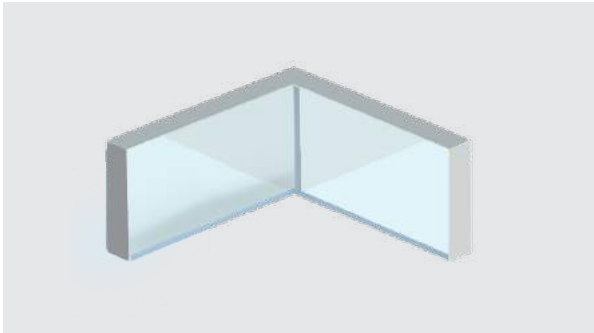


HR right-angle retroreflectors



4Lasers HR right-angle retroreflectors consist of two highly reflective mirrors glued at right angle with precision as high as <30 arcsec. Hollow design eliminates the material dispersion, which is inherent in common retroreflector prisms, making them perfect for ultrashort pulse back reflection applications.

Right angle retroreflectors are manufactured from high quality UVFS substrates, coated with low GDD high reflective coatings designed for Ti:Sapphire, Erbium and Ytterbium doped host based femtosecond laser.

Main features

- Fabricated from high-quality UV grade fused silica
- Reflectance $R_s > 99,6\%$ per surface
- Coating stack is designed to have low dispersion (GDD) for the reflected wavelengths
- Custom coatings, substrate material and dimensions are available upon request

Application examples

- Ultrashort pulse back reflection
- Delay lines

Standard specifications

HR RIGHT-ANGLE RETROREFLECTORS	
Substrate material	UVFS
Aperture dimensions	16 mm
Substrate dimensions	40x20x5 mm
Face dimensions tolerance	+0/-0,1 mm
Thickness tolerance	$\pm 0,2$ mm
Surface quality	20-10 S-D
Surface flatness	$< \lambda/6 @ 632,8$ nm
90° angle tolerance	± 30 arcsec
Pyramidal error	< 1 arcmin
Protective chamfers	$< 0,25$ mm at 45°
AOI	45°



Standard products

MATERIAL	APERTURE DIMENSIONS	REFLECTANCE	ADI	WAVELENGTH RANGE	SKU	PRICE
UVFS	16 mm	Rs>99,6%. Rp>99,2%	45°	510-535 nm	28475	290 €
				760-840 nm	28476	340 €
				1020-1070 nm	28474	290 €
				1520-1570 nm	28477	340 €