



PERKINS PRECISION DEVELOPMENTS Windows

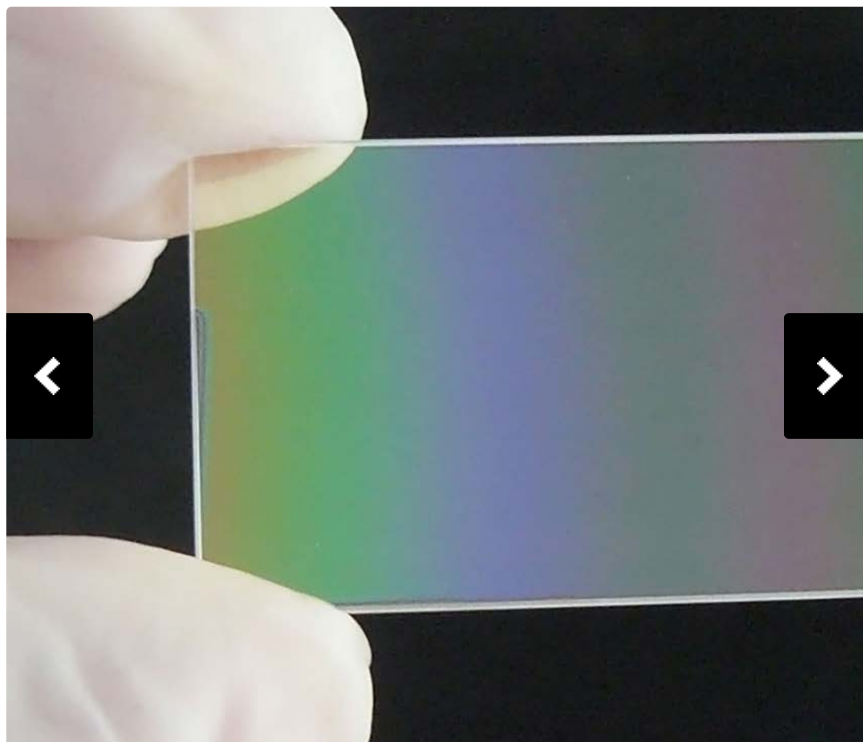
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Benefits

- High damage threshold
- Low absorption, low scatter
- Parallelism to < 1 arcsec
- Surface roughness to $< 1\text{\AA}$
- Prototype to OEM quantities

Options

- Plane parallel windows
- Matched wedge pairs
- Low-loss ARs to $R < 0.1\%$
- Super-polished surfaces
- Pick-off windows
- Brewster windows
- 2mm to > 12 inches diameter



Perkins Precision Developments (PPD) manufactures multi-layer dielectric thin film coated laser windows and precision optical wedges in addition to custom uncoated substrates. Because we utilize [Ion Beam Sputtered \(IBS\)](#) coating technology, our AR coated parallel windows and wedge pairs are both durable and [easy to clean](#). In addition, they demonstrate low losses due to absorption and scatter, as well as [high damage thresholds](#), making them ideal for both intra-cavity or extra-cavity laser applications.

Plane parallel windows, brewster windows and matched wedge pairs are available in a variety of shapes and sizes from 2mm to > 8 " in diameter and with parallelism as low as 1 arcsecond. PPD manufactures precision plano substrates in a [wide range of materials](#) including fused silica, fused quartz, infrasil, N-BK7, YAG, CaF_2 , ZnSe, SF11 and other high index glasses.

[Custom](#) low-loss anti-reflection (AR) coatings with reflectivity less than 0.1% per surface can also be deposited on customer supplied substrates up to 4 inches in

diameter. Click [here](#) to see recent LDT data for an AR coating at 1064nm.

Please [send us your requests](#) for precision laser optics and thin film coatings for critical one-off projects as well as volume OEM requirements. Or contact us for information on super-polished substrates with surface roughness less than 1Å RMS.

About PPD

Perkins Precision Developments has a full range of shaping, grinding, polishing and coating equipment that allows us to produce a diverse mix of shapes and sizes of precision optical components and assemblies for a wide variety of applications .

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Contact Information

Office Address

Perkins Precision Developments
4110 North Valley Drive
Longmont, CO 80504

Phone: 970.785.2706

Fax: 970.535.6368

Email: sales@perkinsprecision.com