

# Laser Windows



## Product Information

Windows are used in optical systems to protect lenses from dust or pollution – very high transmission, low absorption material and a low wavefront distortion are the key points for a laser window.

## Applications

- Laser windows can be used in a variety of applications, e.g.
- High-Power Laser
- Materials processing (welding)
- Lens protection after the focusing head
- Solid-State Laser (Nd: YAG)

## Advantages

- Customized design
- High quality consistency
- High laser damage threshold
- High accurate shape
- Low Scratch-Dig
- Low roughness

## Specifications

Region for center wavelength	350 – 1600 nm, other wavelengths on demand
Diameter	12.7–101.6 mm, other diameters on demand
Surface quality	S-D 10 – 5, depending on dimension
Roughness	< 1 nm RMS
Parallelism	< 1 arc minute
Wavefront distortion	$\leq \lambda/10$
Damage threshold	>20 J/cm <sup>2</sup> @ 1064, S-on-1, 10 ns
Coating	AR coating R < 0.2%

## Materials

- All types of optical glass
- Fused silica

## Quality Assurance

Our quality control is based on self-checking during production and 100% final inspection. A coating curve is delivered with the component.



Advanced Optics  
SCHOTT North America, Inc.  
400 York Avenue  
Duryea, PA 18642  
USA  
Phone +1 570/457-7485  
Fax +1 570/457-7330  
info.optics@us.schott.com

[www.us.schott.com/advanced\\_optics](http://www.us.schott.com/advanced_optics)

**SCHOTT**  
glass made of ideas