

LASER WINDOWS

Specification for protective windows

- Standard substrate: fused silica glass
- Standard tolerances: - $\varnothing \pm 0.1$ mm or $+0/-1$ mm
- thickness ± 0.1 mm
- Edge ground with chamfer 0.3 mm x 45°
(other substrates (e.g. N-BK7, B270) and tolerances on request)
- Surface quality: optical ground and polished on both sides acc. to DIN ISO 10110, P4
Flatness on both sides $\lambda/2 - 1\lambda / \lambda_2 - \lambda_4$
- Standard Coating:
 - both sides AR for 1064 nm, $T \geq 99,5\%$
 - both sides AR for 808 nm, $T \geq 99,5\%$
 - Broadband AR on both sides for 800 - 1000 nm AR (low absorption BBAR)
- Polarisation: s, p
- Angle of incidence: AOI=0-20°
- $T \geq 99,5\%$ / $R \leq 0,5\%$
- with SiO₂-protective layer (passivation)
- Laser damage threshold: $> 500\text{W}/\text{cm}^2$
- Wipe- and scratch resistant acc. to MIL-C-48497, adhesive tape removal test acc. to MIL-C-48497, incl. test record and T-curve



wave length in nm	dimensions in mm \varnothing x thickness	use for laser type
1064	113 x 3.00	AB Laser, Baasel, General Scanning
1064	100 x 4.00	Rofin Sinar
1064	100 x 3.00	AB Laser, Baasel, General Scanning
1064	80 x 3.00	Siemens
1064	76.2 x 1.60	AB Laser, Baasel, Electrox
uncoated	76.2 x 1.15	JK Lasers
1064	70 x 3.25	Control Laser
1064	65 x 2.00	Haas/Trumpf
800-1000	60 x 3.00	Rofin Sinar
1064	60 x 2.00	Haas/Trumpf
1064	60 x 1.50	Haas/Trumpf
1064	59 x 1.15	div.
uncoated	59 x 1.15	div.
1064	55 x 2.00	Haas/Trumpf
1064	55 x 1.50	Haas/Trumpf
1064	54 x 2.00	Lumonics
1064	54 x 1.50	Lumonics
1064	54 x 1.15	JK Lasers, Lumonics
uncoated	54 x 1.15	JK Lasers, Lumonics
1064	50.80 x 3.00	div.
1064	50 x 5.00	div.
1064	50 x 3.00	Rofin Sinar
808	50 x 3.00	Rofin Sinar
1064	50 x 2.00	Haas/Trumpf
1064	50 x 1.50	Rofin Sinar
uncoated	50 x 1.50	div.
1064	50 x 1.15	Miyachi, JK Lasers
uncoated	50 x 1.15	Miyachi, JK Lasers
808	48 x 1.50	Rofin Sinar
1064	46 x 1.15	JK Lasers, Lumonics
1064	45 x 1.15	Raytheon
uncoated	45 x 1.15	JK Lasers
uncoated	41 x 1.15	JK Lasers, Lumonics
1064	40 x 2.00	Lasag
1064	40 x 1.50	Haas/Trumpf
1064	40 x 1.00	Lasag
1064	38.1 x 2.00	Raytheon

wavelength in nm	dimensions in mm \varnothing x thickness	use for laser type
uncoated	38.1 x 1.15	Raytheon
1064	38 x 3.00	Lumonics, JK Lasers
1064	38 x 2.00	AB Laser, Baasel
uncoated	38 x 2.00	div.
1064	38 x 1.20	div.
uncoated	38 x 1.20	JK Lasers
1064	35 x 1.60	div.
1064	31.75 x 1.70	Raytheon
uncoated	31.75 x 1.15	Raytheon
1064	30 x 3.00	Haas/Trumpf
1064	30 x 2.00	Haas/Trumpf, Lasag
uncoated	30 x 2.00	Lasag
1064	30 x 1.50	Haas/Trumpf
uncoated	30 x 1.15	Miyachi
uncoated	28.50 x 1.15	JK Lasers, Lumonics
uncoated	28.00 x 1,15	Lumonics
1064	27,94 x 2.00	Raytheon
1064	27 x 2.00	Haas/Trumpf
1064	27 x 1.50	Haas/Trumpf
uncoated	25.40 x 3.00	div.
1064	25.40 x 1.15	JK Lasers
1064	25 x 4.00	Lasag
1064	25 x 3.00	div.
uncoated	25 x 3.00	div.
1064	25 x 1.00	div.
1064	24 x 1.15	JK Lasers
uncoated	24 x 1.15	JK Lasers, Lumonics
1064	24 x 1.00	div.
uncoated	23 x 1.15	JK Lasers
1064	23 x 1.15	JK Lasers
1064	22.40 x 1.50	Haas/Trumpf
1064	20 x 1.15	JK Lasers
uncoated	19 x 1.15	JK Lasers
1064	19 x 1.15	JK Lasers
1064	13 x 2.54	Quantum Laser
1064	10 x 1.00	JK Lasers
uncoated	10 x 1.00	JK Lasers

If your laser window is not mentioned in the chart, please do not hesitate to contact us or send your specifications (dimensions, Coating, ...) and we will quote according to your requirements.