

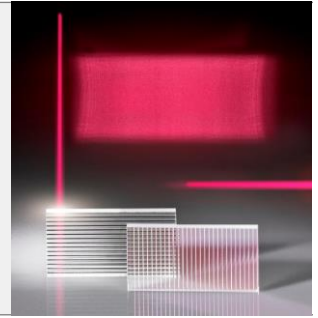
# Wide Angle Diffusers - 25°

Product code: ZLA003130

## General Description:

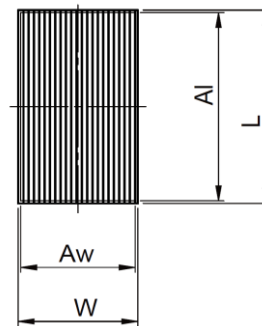
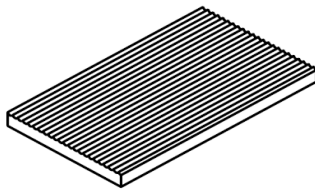
Fused silica homogenizers for spanning an angle of 25° (FW) from collimated light. A top hat profile with steep slopes and high homogeneity can be created along one dimension in angular space. Especially designed for high laser input powers, using fused silica for optimized Laser Induced Damage Thresholds (LIDT).

**Advantages:** Line or rectangular shape, steep slopes, high optical efficiency, wide angles, repeatability, no zero order, no hot spots, no degradation under UV



Specification Data	Unit	Value
Material		Fused silica
Length (L)	mm	5 ± 0.1 (different sizes on request)
Width (W)	mm	5 ± 0.1
Thickness (T)	mm	0.5 ± 0.05
Clear aperture (Al x Aw)	mm <sup>2</sup>	(L-1) x (W-1)
Surface quality @ 633 nm		λ/4 (typically)
Refractive index n @ 1064 nm		1.4496 (FS)
Design divergence angle (FW1/e <sup>2</sup> *)	°	25
AR coating	nm	uncoated (from UV to FIR possible, on request)
Transmission @ target wavelength	% (AOI)	> 90 (0-30°), >98 coated
Surface imperfections in clear aperture (max.)	ISO 10110-7	5/3x0,063; C3x0,25; L3x0,06; E0,25

Laser Input Specification Data	Unit	Value
Design Wavelength	nm	1064
Beam pointing tolerance	mrاد	< 30
Minimum beam size MBS (FW @ 1/e <sup>2</sup> )	mm	> 2.5
Beam divergence BD (FW @ 1/e <sup>2</sup> )	mrاد	50 > BD > 15.4



**RoHS compliant**  
2015/863/EU

\* Increasing/decreasing with higher/lower input beam divergence

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