

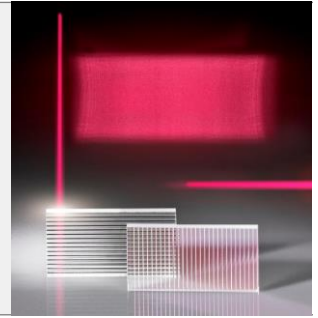
Wide Angle Diffusers - 125°

Product code: ZLA003131

General Description:

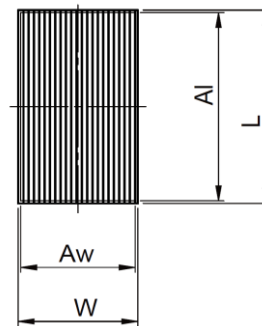
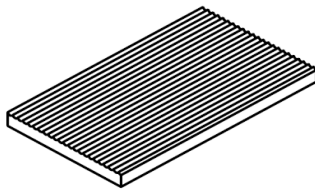
S-TIH53 homogenizers for spanning an angle of 125° (FW) from collimated light. A top hat profile with steep slopes and high homogeneity can be created along one dimension in angular space.

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		S-TIH53
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 ²	(L-1) x (W-1)
Surface quality @ 633 nm		λ/4 (typically)
Refractive index n @ 1064 nm		1.811
Design divergence angle (FW1/e ² *)	°	125
AR coating	nm	uncoated (from UV to FIR possible, on request)
Transmission @ target wavelength	% (AOI)	> 84 (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 ²)	mm	> 0.6
Beam divergence BD (FW @ 1/e ²)	mrاد	50 > BD > 5.8



RoHS compliant
2015/863/EU

* Increasing/decreasing with higher/lower input beam divergence

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