

Wide Angle Diffusers - 125°

Product code: ZLA003131 (*)

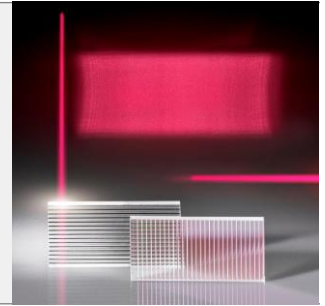
LIMO

A Focuslight Company

General Description:

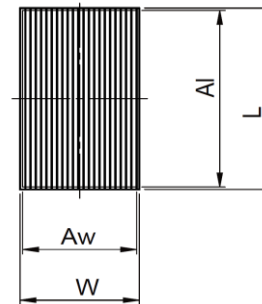
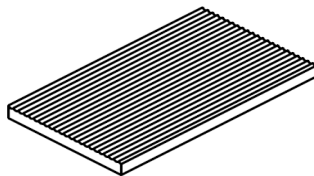
S-TIH53 homogenizers for spanning an angle of 125° (FW) from collimated light. A top hat profile with steep slopes and high homogeneity can be created along one dimension in angular space.

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)
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; L3x0.063; 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



(*) Standard product with short lead time

(**) Increasing/decreasing with higher/lower input beam divergence

RoHS compliant
2011/65/EU and 2015/863/EU

Copyright © 2011 LIMO GmbH. All rights reserved.
All LIMO products are patent pending. Subject to change without notice.

Version August 24, 2020