



LUMACURVE AIRFIELD GUIDANCE SIGNS

Technical Information

All Lumacurve Airfield Signs are manufactured in accordance with FAA Advisory Circular 150/5345-44, and are available in all listed sizes and lighting styles. This sheet covers FAA sizes 1, 2, and 3 Taxiway and Runway Signs, size 5 Distance Remaining Signs, and FAA lighting styles 1, 2, 3, and 5.

LUMACURVE is a registered trademark of Standard Signs Inc.

Design: Lumacurve's simple construction provides reliable performance and easy maintenance. Its sturdy modular design, consisting of extruded aluminum covers & bases and casted aluminum end panels & inter-modular connectors, holds up in the airfield environment and facilitates modification. Sign covers are secured with turn fasteners and are removable without tools for easy re-lamping. Factory assembled and wired in up to 4 module lengths (*single or double faced*) LUMACURVE signs accommodate numerous legend displays. Curved face panels are translucent and retro-reflective, ensuring uniform lighting and maximum readability. Signs are supplied with frangible couplings and floor flanges and can be mounted on a concrete pad or with stakes.

Lighting: Various dependable lighting systems are available for all airport circuit applications and regulator capacity needs, and can be supplied in new signs and kit form for retrofitting existing signs. Supplemental information sheets on most systems that follow are available upon request.

Energy efficient LED Systems: LED signs are wired in parallel with "LED" 4W screw base type lamps and designed for high efficiency and long life; this system operates per Style 2, 3, or Style 5 requirements without internal modification.

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9115 Freeway Dr., Macedonia, OH 44056
800-258-1997 www.lumacurve.com



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Taxiway & Runway Guidance Sign Dimensions:

FAA Sign Size	Size 1 (small)		Size 2 (medium)		Size 3, 5 (large)	
	in/lb	mm/kg	in/lb	mm/kg	in/lb	mm/kg
Letter Height	12.00	305.00	15.00	381.00	18.00	457.00
Face Height	18.00	457.00	24.00	610.00	30.00	762.00
Sign Height	25.30	643.00	31.30	795.00	37.30	947.00
Maximum Sign Depth	13.20	335.00	14.40	366.00	15.80	401.00
Leg Mounting Centers	14.60	371.00	18.20	462.00	20.90	531.00
Module Weight	41.00	18.500	52.00	3.60	70.00	31.80

FAA Sign Length	Size 1 (small)		Size 2 (medium)		Size 3, 5 (large)	
	inches	meters	inches	meters	inches	meters
1-Module (Size 3, 1-mod = Size 5 Distance Marker)	29.40	747.00	36.60	930.00	42.00	1067.00
2-Module	58.50	1486.00	73.00	1854.00	83.80	2129.00
3-Module	87.60	2225.00	109.40	2779.00	125.50	3188.00
4-Module:	116.80	2967.00	145.80	3703.00	167.30	4249.00
Module Weight	41.00	18.50	52.00	23.60	70.00	31.80

Ground Clearance (all sizes): 6.00 inch 152.00 mm

Wind Load Resistance & Frangibility: Per FAA specifications, Mode 2 signs are supported on frangible couplings that withstand wind loads from jet blast up to 200 mph and break before reaching an applied static load of 1.3 PSI. Mode 3 signs are supported on frangible couplings that withstand wind loads up to 300 mph and break before reaching an applied static load of 2.8 PSI.

(*PSI = pounds per square inch distributed over the sign face.)

Installation: For guidance on the installation of signs see FAA Advisory Circular 150-5340-18 on sign systems. For recommended concrete pad dimensions, refer to the 'Installation' section of this manual. FAA suggests that signs be mounted at the following distances from the pavement edge:

	Size 1 (small)	Size 2 (medium)	Size 3, 5 (large)
Feet	10 to 20	25 to 35	35 to 60
Meters	3 to 6	6 to 10.5	10.5 to 18

We recommend that signs be mounted at or beyond these maximum distances at airports with jet operations. Airports with wide-body jet operations should use Size 3 (large) signs mounted 60 feet or more from the pavement edge. All sign locations should be carefully selected to prevent frangible coupling failure from jet blasts.

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Packing & Shipping: Signs are packed in heavy double-wall corrugated cartons suitable for export shipment. Lamps are included. Approximate packed volumes and weights per module are:

	Size 1 (<i>small</i>)	Size 2 (<i>medium</i>)	Size 3, 5 (<i>large</i>)
Cubic Feet	6	10	15
Cubic Meters	0.17	0.28	0.44
Pounds	50	70	85
Kilograms	22.7	31.8	38.5

Warranty: Standard Signs Inc warrants that all Lumacurve signs are manufactured and will perform in accordance with FAA Specification L-858, and that any defects in design, materials (excluding lamps), or workmanship which may appear with proper and normal use during a period of three (3) years (four (4) years for LED lamps and associated electronics) from the date of installation will be corrected by repair or replacement by Lumacurve, FOB our factory, Macedonia, Ohio.

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