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Maintenance Bureau Specification 2006-01

36" or 48" Microprismatic Roll Up Signs

9 February 2006

SIGN: 36" x 36" or 48" x 48" (as requested) diamond shape flexible roll-up sign shall be microprismatic satisfying the requirements in the table below. The color shall be **fluorescent Orange** with standard Black legends screen printed with permanent compatible ink to conform to the Federal / State Manual and satisfying ASTM Specifications or blank (as requested). Sign to have (2) fiberglass battens (user-conscious i.e. polished with no exposed fibers) riveted or otherwise fastened together at middle with horizontal batten rotating to left and right sign corners. Sign and battens shall be fastened together as a 1-piece unit. The minimum retroreflectivity shall be guaranteed at 80% of the values in the table below for a minimum of three (3) years.

**Minimum Coefficient of Retroreflection
RA for New Sheeting
(cd/lux/m²)**

Observation Angle	Entrance Angle		
	-4°	30°	45°
White			
0.2°	300	180	100
0.5°	200	75	60
1.0°	15	15	15
Fluorescent Orange			
0.2°	200	120	60
0.5°	120	50	30
1.0°	10	10	10

BATTENS: Battens shall not be thru- riveted to the sign face. Rotated horizontal batten to fit into two sewn in corner pockets. In no case shall the thickness to width ratio be less than 0.3 (Vertical batten) or 0.15 (horizontal batten). Horizontal batten shall be securely fixed in open position to withstand wind gusts and traffic in excess of 65 MPH without failure. Corner fixture and battens shall be guaranteed for a minimum of 1 year.

SEWN CORNER POCKETS: Corner pockets shall be constructed in such a way to allow easy assembly / disassembly with minimal applied bending stress, if any, to the batten. Pockets shall be placed so that the sign remains taut when assembled and the material does not bow or sag. The pocket must provide certain retention of batten(s) during handling and use. Pocket design must protect the pocket and adjoining support material from breakage when dropped or forced upon a hard surface during assembly. Pocket material shall be stabilized with heat and pressure in such a way that excess stretch is eliminated and that adequate seam strength is assured. The ASTM D3787 ball burst strength

shall be a minimum of 320 pounds. The pockets shall be sewn with a minimum exterior grade TEX 70 bonded nylon thread or equivalent. Each sewn in pocket shall be comprised as follows:

- 14 oz/square yard woven fabric of PVC/polyester combination yarn
- minimum 50 threads per square inch
- 8"x8" square folded once for the top and a 9"x9" square folded once for the foundation for the 48" sign
- 6"x6" square folded once for the top and a 7"x7" square folded once for the foundation for the 36" sign

MISCELLANEOUS: A minimum 10 oz. Protective, Orange vinyl coated fabric carry case shall be included with each sign. Case shall be printed with sign legend (if applicable) and have a quick secure closure and carry handle located at carry balance point. Successful bidder shall follow initial delivery with Representatives to each District to provide field product instruction if requested at no additional cost.

NOTE: Each bidder on microprismatic roll up signs shall submit for evaluation one completely assembled sample and specifications showing Minimum Coefficient of Retroreflection values. If microprismatic with legend is bid, the submitted sample shall have a legend.

Please send sample to:

Attention: State Traffic Engineer
ALDOT Maintenance Bureau
Room H-101
1409 Coliseum Blvd
Montgomery, AL 36110