Traffic Signs, Inc.
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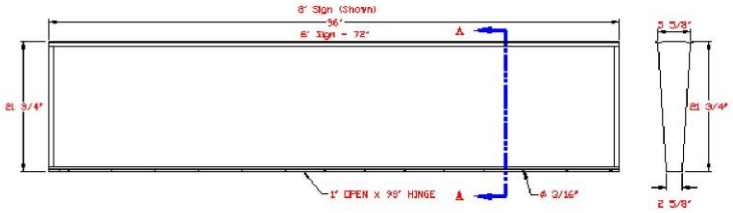
LED Ultraslim

Illuminated Street Name Sign Specification



1.0 Scope & Background

1.1 This specification shall provide an overview of the technical requirements needed to manufacture safe and reliable signage for use in Street Name Identification.

1.2 Led signs designed and manufactured by Traffic Signs, Inc. are far more reliable than traditionally illuminated signs and require little or no maintenance. Led signs generally use only a small fraction of the power required by earlier generation signs and more economical to operate.

Traffic Signs, Inc., UltraSlim LED Illuminated Street Name sign shall display the designated street name clearly and legibly in the daylight hours without being energized and at night when energized. Standard sign assembly shall consist of a 3ft through 10ft lengths in 1ft increments in and aluminum housing. White translucent sign faces are comprised of white polycarbonate with green translucent EC film or clear Impact Modified Acrylic with white reflective DG3 and green EC film with the street name applied shall be installed in hinged doors on the sides of the sign for easy access to perform general cleaning and maintenance operations. Other background colors are available upon request. Illumination shall be by an LED Light Engine mounted in the top of the sign for even, economical illumination of both of the opposing sign faces.

2.0 **Mechanical Construction**

2.1 The Sign shall be constructed using a weatherproof, aluminum housing consisting of a fabricated aluminum top with a minimum thickness of .125" x 5 1/2" deep, including the drip edge. The aluminum bottom is .125" thick x 2-5/8" deep. The ends of the housing shall be aluminum with a minimum thickness of .125". A four-foot sign shall be 48 ¼" long and 21 1/4" tall and not weigh more than 40 pounds; a six-foot sign shall be 72 ¼" long and 21 1/4" tall and not weigh more than 53 pounds; and an eight-foot sign shall be 96 ¼" long and 21 1/4" tall and not weigh more than 72 pounds. All corners are TIG (Tungsten Inert Gas) welded to provide a weatherproof seal around the entire housing.

2.2 The door shall be constructed of extruded aluminum. Two corners are TIG welded with the other two screwed together to make one side of the door removable for installation of the sign face. The door is fastened to the housing on the bottom by a full length, .040" x 1 1/8" open stainless steel hinge. Each door shall be held secure onto a 5/32" thick neoprene gasket by three (3) quarter turn fasteners (four-foot and six-foot signs have 2) to form a watertight seal between the door and the housing.

2.3 The sign face shall be constructed of .125" white translucent material as described in section 1.2. The letters forming the street names shall be cut and removed from the vinyl that creates the background color and then applied to the front of the sign face. In most cases, a white border shall frame the legend unless otherwise specified.

2.4 The exterior surface of the sign shall be finished per customer specifications including natural mill finish, wet coat finish or powder coated, all in accordance to industry standards.

2.5 All fasteners and hardware shall be corrosion resistant stainless steel. Only a flat screwdriver is required to open the sign for routine maintenance such as cleaning.

3.0 **Electrical**

3.1 The LED light engine shall consist of a single row of 1" wide MCPCB strips utilizing 1.25 watt LEDs.

3.2 The power supply shall be one or more (depending upon sign size), Class 2, 24VDC, 100 watt for dry or damp locations.

3.3 All wiring shall be neatly secured within the sign housing.

3.4 A wire entrance junction box shall be supplied (unless otherwise specified) with the sign assembly. The box shall be supplied mounted to the exterior of the sign and provide a weather tight seal.

3.5 A photocell may be supplied as an option and mounted to the cover of the wire entrance junction box.

4.0 **Brackets and Mounting**

4.1 An Illuminated Street Name Sign may be attached to a mast arm and/or span wires. If the sign is attached to a mast arm or span wire that is perpendicular to the street that the sign faces, a two-point support assembly shall be used. If the illuminated street name sign is attached to a mast arm or span wire that is diagonal to the street that the sign faces then a single point support assembly shall be used.