

BLINKERSIGN® 2009 MUTCD CONFORMANCE

TAPCO's BlinkerSigns conform to the Federal Highway Administration's (FHWA) 2009 Manual on Uniform Traffic Control Devices (MUTCD) as cited below:

MUTCD Section 2A.07 Retroreflectivity and Illumination

Support:

01 There are many materials currently available for retroreflection and various methods currently available for the illumination of signs and object markers. New materials and methods continue to emerge. New materials and methods can be used as long as the signs and object markers meet the standard requirements for color, both by day and by night.

Standard:

02 Regulatory, warning, and guide signs and object markers shall be retroreflective (see Section 2A.08) or illuminated to show the same shape and similar color by both day and night, unless otherwise provided in the text discussion in this Manual for a particular sign or group of signs.

03 The requirements for sign illumination shall not be considered to be satisfied by street or highway lighting.

Option:

04 Sign elements may be illuminated by the means shown in Table 2A-1.

Table 2A-1. Illumination of Sign Elements

Means of Illumination	Sign Element to be Illuminated
Light behind the sign face	<ul style="list-style-type: none"> • Symbol or word message • Background • Symbol, word message, and background (through a translucent material)
Attached or independently mounted light source designed to direct essentially uniform illumination onto the sign face	<ul style="list-style-type: none"> • Entire sign face
Light emitting diodes (LEDs)	<ul style="list-style-type: none"> • Symbol or word message • Portions of the sign border
Other devices, or treatments that highlight the sign shape, color, or message: <ul style="list-style-type: none"> • Luminous tubing • Fiber optics • Incandescent light bulbs • Luminescent panels 	<ul style="list-style-type: none"> • Symbol or word message • Entire sign face

05 Retroreflection of sign elements may be accomplished by the means shown in Table 2A-2.

Table 2A-2. Retroreflection of Sign Elements

Means of Retroreflection	Sign Element
Reflector "buttons" or similar units	<ul style="list-style-type: none"> • Symbol • Word message • Border
A material that has a smooth, sealed outer surface over a microstructure that reflects light	<ul style="list-style-type: none"> • Symbol • Word message • Border • Background

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For more information, contact TAPCO at 800-236-0112

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MUTCD Section 2A.07 Retroreflectivity and Illumination (continued from previous page)

06 Light Emitting Diode (LED) units may be used individually within the legend or symbol of a sign and in the border of a sign, except for changeable message signs, to improve the conspicuity, increase the legibility of sign legends and borders, or provide a changeable message.

Standard:

07 Except as provided in Paragraphs 11 and 12, neither individual LEDs nor groups of LEDs shall be placed within the background area of a sign.

08 If used, the LEDs shall have a maximum diameter of 1/4 inch and shall be the following colors based on the type of sign:

- A. White or red, if used with STOP or YIELD signs.
- B. White, if used with regulatory signs other than STOP or YIELD signs.
- C. White or yellow, if used with warning signs.
- D. White, if used with guide signs.
- E. White, yellow, or orange, if used with temporary traffic control signs.
- F. White or yellow, if used with school area signs.

09 If flashed, all LED units shall flash simultaneously at a rate of more than 50 and less than 60 times per minute.

10 The uniformity of the sign design shall be maintained without any decrease in visibility, legibility, or driver comprehension during either daytime or nighttime conditions.

Option:

11 For STOP and YIELD signs, LEDs may be placed within the border or within one border width within the background of the sign.

12 For STOP/SLOW paddles (see Section 6E.03) used by flaggers and the STOP paddles (see Section 7D.05) used by adult crossing guards, individual LEDs or groups of LEDs may be used.

Support:

13 Other methods of enhancing the conspicuity of standard signs are described in Section 2A.15.

14 Information regarding the use of retroreflective material on the sign support is contained in Section 2A.21.



TAPCO[®]
TRAFFIC & PARKING CONTROL CO., INC.

5100 W. Brown Deer Road, Brown Deer, WI 53223
P 800.236.0112 | www.tapconet.com

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FSS Contract GS-07F-5924R
GS-07F-0234U