

STIMSONITE MODEL 101

Iron Casting With C40 Replaceable Lens

PRODUCT DATA

Product Type: 101 Casting

Design: 10.0" x 5.50" x 1.92" (25.4 cm x 13.97 cm x 4.88 cm)

Installed Height: 0.41" (1.041 cm)

Weight: 5.5 lbs. (2.49 kg)

Material: Nodular Iron hardened to 51-55 RC

Specification: Meets ASTM D 4280 (w/C40 lens), ASTM D4383, and ASTM A536-84

Effective Date: 2016



Product Description:

Raised pavement markers are a safety device used on roads to improve delineation and increase preview time, particularly under wet conditions, and have been shown to decrease crash rates on highways with raised pavement marker center lines by approximately 0.5 crashed per million vehicle miles.

Raised pavement markers play an important safety function on roads, communicating both the travel path for short and long range vehicle operation.

Features a casting made from nodular iron and a C40 replaceable lens that has an ABS plastic body and coated polycarbonate lens.

The roadway is recessed and the cast iron housing is placed in slot and applied using an approved epoxy that meets AASHTO M237 Type IV. The replacement cycle for castings is approximately ten years while the lens replacement cycle is 2-4 years depending on the road's ADT.

Product Advantages:

- Narrow rails minimize snowplow impact
- Abrasion resistant coating provides enhanced retained reflectivity
- Advanced optics deliver high reflectivity and durability
- Initial SI values engineered to at least double ASTM standards
- Recommended for high ADT and high intensity conditions

Packaging:

Available in 16 piece boxes per color and casting style. One pallet (46" x 48" x 26") = 32 boxes or 512 markers. One truckload = 13 pallets.

Other:

The following lens colors are available: white, yellow, red, blue, green, and fluorescent orange. Markers are available as a one-way marker with one lens and one plug, a two-way marker with two lenses of the same color, or a two-way marker with two different colored lenses.

Physical Characteristics Of C40 Lens:

Slope Of Lens:	35 degrees to base	
Lens Face:	1.93 sq.in. (12.48 sq. cm.)	
Compressive Strength Requirement: (ASTM D 4280)	> 6,000 lbs (2,722 kg)	
Coefficient Of Luminous Intensity (mcd/lx): (ASTM D 4280)		
	<u>0 Degrees</u>	<u>20 Degrees</u>
White	279	112
Yellow	167	67
Red	70	28
Green	93	37
Blue	26	10
Specific Intensity (cd/fc): (ASTM D 4280)		
	<u>0 Degrees</u>	<u>20 Degrees</u>
White	3.0	1.2
Yellow	1.8	0.72
Red	0.75	0.30
Green	1.0	0.4
Blue	0.28	0.11
Coefficient Of Luminous Intensity After Abrasion Resistance Testing (mcd/lx): (ASTM D 4280)		
	<u>0 Degrees</u>	<u>20 Degrees</u>
White	140	56
Yellow	84	34
Red	35	14
Green	47	19
Blue	13	5
Specific Intensity After Abrasion Resistance Testing (cd/fc): (ASTM D 4280)		
	<u>0 Degrees</u>	<u>20 Degrees</u>
White	1.5	0.60
Yellow	0.90	0.36
Red	0.38	0.15
Green	0.50	0.20
Blue	0.14	0.06

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