



# Application Procedures for 3M™ Snowplowable Marker

Series 190

Information Folder 190

August 2010

Replaces Information Folder 190 dated November 2006

## Description

This information folder contains application procedures for 3M™ Snowplowable Marker Series 190. It describes the procedure for installing a replacement Series 190 marker into an existing casting.

**Note:** The Series 190 marker can be used as a replacement marker in castings that meet current ASTM Standard Specification for Plowable, Raised Retroreflective Pavement Markers D4383. It is important that users be completely knowledgeable of all application requirements and procedures prior to product installation. Instructions contained in this folder must be followed for proper application and performance. It is the responsibility of the installer to contact the appropriate 3M sales representative or 3M technical service representative with questions regarding application conditions and installation procedures.

## Application Conditions

It is recommended that all work be performed when the air temperature is 50°F (10°C) and rising. The casting pocket must be free of moisture, dirt, and any old adhesive material. The work area can be opened to traffic anytime after installation.

## Application Procedures

### 1. Remove marker

Pry old marker out of casting. Use eye protection when replacing markers.



### 2. Clean the casting

Scrape old pad material and adhesive out of marker pocket in casting. Use an air hammer or wire brush. Next, sandblast the casting pocket to remove all residual adhesive, rust, and other contaminants. It is important that the casting is clean to ensure long-lasting performance.



### 3. Apply Adhesive

Peel the release liner from the back of the new Series 190 marker. Apply a wide bead (approximately 3/8 inch wide) of Liquid Nails™ LN-602<sup>1</sup> adhesive in the center of the adhesive pad on the back of the marker. Liquid Nails™ LN-602 is the recommended adhesive for Series 190 marker replacement.

**Note:** Liquid Nails™ LN950<sup>1</sup> may also be used where VOC compliant adhesive is required.



### 4. Install marker into casting

Place the marker into the casting pocket. Apply foot pressure on the marker for 3-4 seconds. Adhesive should flow out around all edges and corners of the marker as an indicator that the adhesive completely covers the entire bottom of the marker and provides a uniform adhesive layer between the marker and the casting.



<sup>1</sup>Liquid Nails is a Trademark of Macco

Adhesive may flow up and onto the front lip of the marker. If excess adhesive flows up in front of the reflective lens of the marker, remove the adhesive using a moist cloth, using care to prevent any of the adhesive from contacting the reflective lens. Adhesive on the lens of the marker will reduce reflectivity performance.

### Other Adhesives:

Application of Series 190 markers is only recommended with the use of adhesives meeting the requirements listed in this information folder. It is expected that other adhesives will be suitable but markers should be tested with these adhesives to determine suitability before using.

### General Performance Considerations

Maximum durability of snowplowable retroreflective raised pavement markers will be achieved when markers are properly applied according to the manufacturer's recommendations provided in Information Folder 190. Although reflective performance can be reduced by wear, the lens of the raised pavement marker is coated with an abrasion-resistant material which provides acceptable reflective performance under normal traffic wear.

### Health and Safety Information

Read all health hazard, precautionary, and first-aid statements found in the Material Safety Data Sheet (MSDS) and/or product label of chemicals prior to handling or use. Also refer to the MSDS for information about the volatile organic compound (VOC) content of chemical products. Consult local regulations and authorities for possible restrictions on product VOC content and/or VOC emission.

### Literature Reference

PB 190 3M™ Snowplowable Marker Series 190

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