

Certification of FHWA Compliance: Category 1 Device

The SHUR-FLEX™ Socket Insert Ground Mount Delineator System, manufactured by SHUR-TITE® Products, consists of a two piece delineator post bolted onto a flexible insert which comprises a multi-hit, self-righting, flexible delineator assembly. This flexible delineator assembly is then installed into the SHUR-TITE® Socket System (a proven FHWA accepted ground anchor for mailbox supports, small signs, and delineators). The SHUR-FLEX™ Socket Insert Ground Mount Delineator System is certified to comply with the requirements of a Category 1 Traffic Control Device in accordance with the guidelines and recommendations of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA), the Federal Highway Administration (FHWA), and the 1993 National Cooperative Highway Research Program (NCHRP) Report 350, Recommended Procedures for the Safety Performance Evaluation of Highway Features (NCHRP Report 350).

Certified compliance is based upon the definition of small, lightweight channelizing and delineating devices as described in the FHWA memorandum related to policy of acceptance. Submission Guidelines provide for self certification by the developer on the basis of documented field performance or comparison with like acceptable devices.

The SHUR-FLEX™ Socket Insert Ground Mount Delineator System is certified to comply with the FHWA memorandum as follows:

- 1. The first category contains those small and lightweight channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrably safe operational performance. These include plastic or rubber cones and tubular markers, flexible delineator posts, and plastic drums with no lights, batteries, signs, etc. added. If ballast is used, it must be located at ground level in accordance with the manufacturer's instructions. For devices to be included in this category there must be virtually no potential that they will penetrate windshields, cause tire damage, or have a significant effect on the control or trajectory of an impacting vehicle. FHWA will not issue letters of acceptance nor maintain a list of the many individual devices in this category. These devices may be allowed based upon the developer's self certification if the device:**
 - A. is built to a specification for a device for which the crashworthiness has been validated by crash or surrogate testing, or**
 - B. is a type of device that is being accepted as being crashworthy on the basis of crash test experience with similar devices or years of demonstrably safe operational performance. (Simplified crash testing showing that a device poses no risk to impacting vehicle**

occupants may be used to support the manufacturer's certification. This simplified testing must, as a minimum, be documented by a written report, observed by an independent, impartial observer, recorded on videotape, and include a means, other than the vehicle's speedometer, for determining the vehicle speed at the time of impact.)

The SHUR-FLEX™ Socket Insert Ground Mount Delineator System is comprised of the SHUR-TITE® Delineator post and Socket System that have proven their safe operational performance through years of extensive field service. The addition of the SHUR-FLEX™ Flexible Insert transforms the post into a more resilient product, a concept used in the industry and accepted as safe for many years.

This Certification should not be duplicated except in full.

Certified by:



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