

Certification of FHWA Compliance: Category 1 Device

The SHUR-FLEX™ Drivable Delineator, manufactured by SHUR-TITE® Products, consists of a post, flexible insert, and a perforated steel square tubing footing component. This multi-hit, self-righting, flexible delineator 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™ Drivable Delineator is certified to comply with the FHWA memorandum as follows:

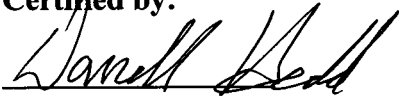
- 1. The first category contains those small and lightweight channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrably safe operational performance. These include plastic or rubber cones 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™ Drivable Delineator is comprised of a SHUR-TITE® Delineator post that has proven its 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 and accepted as safe over many years. The perforated steel tubing footing component, is driven or concreted into the ground. The Flexible Insert and delineator post is then bolted onto this section. This design has proven itself in longtime similar product installations and as a breakaway footing section for countless other roadside product applications.

This Certification should not be duplicated except in full.

Certified by:



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