



U.S. Department
of Transportation
**Federal Highway
Administration**

1200 New Jersey Ave., SE
Washington, D.C. 20590

Feb 6, 2013

In Reply Refer To:
HSST/SS-134C

Mr. Greg Kirchgerner
Xcessories Squared
P.O. Box 135
Auburn, Illinois 62615

Dear Mr. Kirchgerner:

This letter is in response to your request for the Federal Highway Administration (FHWA) to review a roadside safety system for eligibility for reimbursement under the Federal-aid highway program.

Name of system: Xcessories Squared Redi-Torque Triangular Slip Base
Top (10 3/8") with galvanized keeper plate
Type of system: Triangular Slip Base Small Sign Support for Perforated
Square Steel Tube (PSST) posts and round posts
Test Level: NCHRP Report 350 Test Level 3
Testing conducted by: N/A
Date of request: September 26, 2012

Decision:

The following devices are eligible, with details provided below

- Xcessories Squared Redi-Torque Triangular Slip Base Top (10 3/8") with galvanized keeper plate for use with PSST posts and round posts

Based on a review of the information and calculations submitted by the manufacturer certifying the device described herein meets the crashworthiness criteria of the National Cooperative Highway Research Program (NCHRP) Report 350, the device is eligible for reimbursement under the Federal-aid highway program. Eligibility for reimbursement under the Federal-aid highway program does not establish approval or endorsement by the FHWA for any particular purpose or use.

The FHWA, the Department of Transportation, and the United States Government do not endorse products or services and the issuance of a reimbursement eligibility letter is not an endorsement of any product or service.

Requirements

Roadside safety devices should meet the guidelines contained in the National Cooperative Highway Research Program (NCHRP) Report 350 or the American Association of State Highway and Transportation Officials' Manual for Assessing Safety Hardware (MASH).

Description

FHWA Eligibility Letter SS-134B dated March 30, 2012, addressed the use of Xcessories Squared triangular slip base upper portion with existing, in-place slip base bottoms. Our letter addressed the use of these bases with PSST posts only. Your present request is to permit the same usage with round posts of 2 7/8 inches OD, with a minimum of 10 ga wall, and up to Schedule 80 wall.

Findings

Therefore, the systems described above and detailed in FHWA Letter SS-134B are eligible for reimbursement and may be installed under the range of conditions tested, and with round posts.

Please note the following standard provisions that apply to FHWA eligibility letters:

- This finding of eligibility is limited to the crashworthiness characteristics of the systems and does not cover their structural features, nor conformity with the Manual on Uniform Traffic Control Devices.
- Any changes that may influence the crashworthiness of the system will require a new reimbursement eligibility letter.
- Should the FHWA discover that the qualification testing was flawed, that in-service performance reveals safety problems, or that the system is significantly different from the version that was crash tested, we reserve the right to modify or revoke this letter.
- You will be expected to supply potential users with sufficient information on design and installation requirements to ensure proper performance.
- You will be expected to certify to potential users that the hardware furnished has the same chemistry, mechanical properties, and geometry as that submitted for review, and that it will meet the crashworthiness requirements of the NCHRP Report 350.
- To prevent misunderstanding by others, this letter of eligibility is designated as number SS-134C and shall not be reproduced except in full. This letter and the test documentation upon which it is based are public information. All such letters and documentation may be reviewed at our office upon request.

- This letter shall not be construed as authorization or consent by the FHWA to use, manufacture, or sell any patented system for which the applicant is not the patent holder. The finding of eligibility is limited to the crashworthiness characteristics of the candidate system, and the FHWA is neither prepared nor required to become involved in issues concerning patent law. Patent issues, if any, are to be resolved by the applicant.

Sincerely yours,



Michael S. Griffith
Director, Office of Safety Technologies
Office of Safety

Request for Federal Aid Reimbursement Eligibility Of Highway Safety Hardware

Submitter	Date of Request:	9/26/2012	<input type="radio"/> New <input checked="" type="radio"/> Resubmission
	Name:	Greg Kirchgerner	
	Company:	Xcessories Squared Development & Mfg., Inc.	
	Address:	P.O. Box 135 Auburn, IL 62615	
	Country:	United States of America	
	To:	Michael S. Griffith, Director FHWA, Office of Safety Technologies	

I request the following devices be considered eligible for reimbursement under the Federal-aid highway program.

[Help](#)

System Type	Submission Type	Device Name / Variant	Testing Criterion	Test Level
'SS': Breakaway Sign Support	<input checked="" type="radio"/> Physical Crash Testing <input type="radio"/> FEA & V&V Analysis	Triangular Slip Base Small Sign Support	NCHRP Report 350	TL3

By submitting this request for review and evaluation by the Federal Highway Administration, I certify that the product(s) was (were) tested in conformity with the NCHRP Report 350 (Report 350) and that the evaluation results meet the appropriate evaluation criteria in the Report 350.

Identification of the individual or organization responsible for the product:

Contact Name:	Greg Kirchgerner	Same as Submitter <input checked="" type="checkbox"/>
Company Name:	Xcessories Squared Development & Mfg., Inc.	Same as Submitter <input checked="" type="checkbox"/>
Address:	P.O. Box 135 Auburn, IL 62615	Same as Submitter <input checked="" type="checkbox"/>
Country:	United States of America	Same as Submitter <input checked="" type="checkbox"/>

PRODUCT DESCRIPTION

Modification to Existing Hardware Non-Significant - Effect is positive or Inconsequential
The hardware variation request that was originally sent identified the product used by Texas DOT and their Round Slip Base. The Eligibility Letter SS-134B stated the Type of System as Triangular Slip Base Small Sign Support for PSST posts. We would like the Eligibility Letter to be corrected to state the Type of System as Triangular Slip Base Small Sign Support for PSST and for Round posts.

CRASH TESTING

A brief description of each crash test and its result:

Required Test Number	Narrative Description	Evaluation Results
3-60 (820C)		WAIVER REQUES
53-60 (700C)		WAIVER REQUES
3-61 (820C)		WAIVER REQUES

Required Test Number	Narrative Description	Evaluation Results
S3-61 (700C)		WAIVER REQUES

Full Scale Crash Testing was done in compliance with MASH by the following accredited crash test laboratory (cite the laboratory's accreditation status as noted in the crash test reports.):

Laboratory Name:		
Laboratory Contact:		Same as Submitter <input type="checkbox"/>
Address:		Same as Submitter <input type="checkbox"/>
Country:		Same as Submitter <input type="checkbox"/>
Accreditation Certificate Number and Date:		

ATTACHMENTS

Attach to this form:

- 1) A copy of the full test report, video, and a Test Data Summary Sheet for each test conducted in support of this request.
- 2) A drawing or drawings of the device(s) that conform to the Task Force-13 Drawing Specifications [[Hardware Guide Drawing Standards](#)]. For proprietary products, a single isometric line drawing is usually acceptable to illustrate the product, with detailed specifications, intended use, and contact information provided on the reverse. Additional drawings (not in TF-13 format) showing details that are key to understanding the performance of the device should also be submitted to facilitate our review.

FHWA Official Business Only:

Eligibility Letter		AASHTO TF13	
Number	Date	Designator	Key Words