

May 29, 2020

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

In Reply Refer To: HSST-1/WZ-393

Mr. Eric Willetts MDI Worldwide 38271 W. Twelve Mile Road Farmington Hills, MI 48331

Dear Mr. Willetts:

This letter is in response to your December 2, 2019 request for the Federal Highway Administration (FHWA) to review a roadside safety device, hardware, or system for eligibility for reimbursement under the Federal-aid highway program. This FHWA letter of eligibility is assigned FHWA control number WZ-393 and is valid until a subsequent letter is issued by FHWA that expressly references this device.

Decision

The following device is eligible within the length-of-need, with details provided in the form which is attached as an integral part of this letter:

• MDI Worldwide T1260M Sign Stand TL-3

Scope of this Letter

To be found eligible for Federal-aid funding, new roadside safety devices should meet the crash test and evaluation criteria contained in the American Association of State Highway and Transportation Officials'(AASHTO) Manual for Assessing Safety Hardware (MASH). However, the FHWA, the Department of Transportation, and the United States Government do not regulate the manufacture of roadside safety devices. Eligibility for reimbursement under the Federal-aid highway program does not establish approval, certification or endorsement of the device for any particular purpose or use.

This letter is not a determination by the FHWA, the Department of Transportation, or the United States Government that a vehicle crash involving the device will result in any particular outcome, nor is it a guarantee of the in-service performance of this device. Proper manufacturing, installation, and maintenance are required in order for this device to function as tested.

This finding of eligibility is limited to the crashworthiness of the system and does not cover other structural features, nor conformity with the Manual on Uniform Traffic Control Devices.

Eligibility for Reimbursement

Based solely on a review of crash test results and certifications submitted by the manufacturer, and the crash test laboratory, FHWA agrees that the device described herein meets the crash test and evaluation criteria of the AASHTO's MASH. Therefore, the device is eligible for reimbursement under the Federal-aid highway program if installed under the range of tested conditions.

Name of system: MDI Worldwide T1260M Sign Stand Type of system: Work Zone Test Level: MASH Test Level 3 (TL3) Testing conducted by: Applus IDIADA KARCO Engineering, LLC. Date of request: December 2, 2019

FHWA concurs with the recommendation of the accredited crash testing laboratory on the attached form.

Full Description of the Eligible Device

The device and supporting documentation, including reports of the crash tests or other testing done, videos of any crash testing, and/or drawings of the device, are described in the attached form.

Notice

This eligibility letter is issued for the subject device as tested. Modifications made to the device are not covered by this letter. Any modifications to this device should be submitted to the user (i.e., state DOT) as per their requirements.

You are expected to supply potential users with sufficient information on design, installation and maintenance requirements to ensure proper performance.

You are 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 test and evaluation criteria of AASHTO's MASH.

Issuance of this letter does not convey property rights of any sort or any exclusive privilege. This letter is based on the premise that information and reports submitted by you are accurate and correct. We reserve the right to modify or revoke this letter if: (1) there are any inaccuracies in the information submitted in support of your request for this letter, (2) the qualification testing was flawed, (3) in-service performance or other information reveals safety problems, (4) the system is significantly different from the version that was crash tested, or (5) any other information indicates that the letter was issued in error or otherwise does not reflect full and complete information about the crashworthiness of the system.

Standard Provisions

- To prevent misunderstanding by others, this letter of eligibility designated as FHWA control number WZ-393 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 upon request.
- This letter shall not be construed as authorization or consent by the FHWA to use, manufacture, or self any patented system for which the applicant is not the patent holder.
- This FHWA eligibility letter is not an expression of any Agency view, position, or determination of validity, scope, or ownership of any intellectual property rights to a specific device or design. Further, this letter does not impute any distribution or licensing rights to the requester. This FHWA eligibility letter determination is made based solely on the crash-testing information submitted by the requester. The FHWA reserves the right to review and revoke an earlier eligibility determination after receipt of subsequent information related to crash testing.

Sincerely,

Michael S. Fuffeth

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

Enclosures

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Request for Federal Aid Reimbursement Eligibility of Highway Safety Hardware

	Date of Request:	December 2, 2019	New	○ Resubmission	
Name: EricWilletts					
ter	Company:	ny: MDIWorldwide			
Submitter	Address:	38271 W. Twelve Mile Road, Farmington Hills, MI 48331 United States			
Sut	Country:				
	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.

Device & TestingCriteri		!-!-!		
System Type	SubmissionType	Device Name / Variant	TestingCriterion	Test Level
'WZ':CrashWorthyWork	Zon Physical Crash Testing Engineering Analysis	T1260M	AASHTOMASH	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 AASHTO Manual for Assessing Safety Hardware and that the evaluation results meet the appropriate evaluation criteria in the MASH.

Individual or Organization responsible for the product:

Contact Name:	EricWilletts	SameasSubmitter 🖂			
CompanyName:	MDIWorldwide	SameasSubmitter 🖂			
Address: 38271 W.Twelve Mile Road, Farmington Hills, MI 48331		SameasSubmitter 🖂			
Country:	United States Same as Submitter				
	Enter below all disclosures of financial interests as required by the FHWA `Federal-Aid Reimbursement Eligibility Process for Safety Hardware Devices' document.				
Marketing Displays, Inc., doing business as MDI Worldwide ("MDI"), whose principal place of business is 38271 West Twelve Mile Road, Farmington Hills, Michigan 48331-3041, and Applus IDIADA KARCOEngineering, LLC., whose principal place of business is 9270 Holly Road, Adelanto, CA 92301 share no (\$0.00) financial interests between the two organizations. This includes no (\$0.00) financial interest but not limited to: i.Compensation, including wages, salaries, commissions, professional fees, or fees for business referrals (dollar valuesare not needed); ii. Consulting relationships; iii. Research funding or other forms of research support; iv. Patents, copyrights, and other intellectual property interests; v. Licenses or contractual relationships; or vi. Business ownership and investment interest.					

PRODUCT DESCRIPTION

Help					
New Hardwa Significant M	reor odification	Modification to Existing Hardware			
Product Descrip (Reference Draw The T1260M tem Further Descript The T1260M tem aluminum teless and 1-1/4" SQ tu attached to the t lowered to the d The overall heig	tion of T1260M ving ZA-07965) nporary sign star ion: nporary sign sup coping legs and t be. The telescop elescoping mast esired height. ht of the stand is	nd isa work-zone traffic contr port isa portable/fold-up sig hree aluminum telescoping ing upright is constructed of twith the use of an adjustable 103". The test was conducte weight of the stand isapprox	n stand cor uprights.T 1", 1-1/4" a e roll-up sig d with the s	nsisting of astee he leg is constru nd 1-1/2" SQ tul In bracket. Thes sign mounted at	el base assembly, four acted of telescoping 1" be. A roll-up sign is sign can be raised and
all of the critical	and relevant cra ineer has deterr a.	CRASH TES affiliated with the testing lat ash tests for this device lister nined that no other crash te Nick V. Injev	oratory, aç d above w	ere conducted t	o meet the MASH test
EngineerSignati	ure:	Nick Injev	/	Digitally signed by Nick Ir DN: cn=Nick Injev, o=App email=nick.injev@idiada. Date: 2020.01.1712:27:08	olusIDIADAKARCO,ou, com,c=US
Address:		9270 Holly Road, Adelanto, 0	10 ⁴		
Country:		USA			SameasSubmitter
A brief descript	ion of each cra	sh test and its result: He	р		
RequiredTest Number	er Description			Evaluation Results	
3-70(1100C) Besigned to evaluate the ability of asmall vehicle to activate any breakaway, fracture, or yielding mechanism. Is considered optional for work-zone traffic control devices weighing less than 220 lbs (100 kg). The as-tested device weighed 36.0 lbs (16.3 kg) and therefore Test 70 was not performed.		Non-Re	evant Test, not d	conducted	

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RequiredTest Number	Narrative Description	Evaluation Results
3-71 (1100C)	An 1100C test vehicle approached the test article at a nominal speed of 62 mph. The first T1260M sign stand impacted was oriented at 0° and the second test article at 90°. The vertical upright of both devices released from the base upon impact. Neither device made contact with the windshield and there were no tears in the plastic liner or excessive deformation. There was no penetration into the test vehicles occupant compartment nor were the deformation limits exceeded. The devices did not induce any vehicle instability. The T1260M met all the requirements for MASH Test 3-71.	PASS
3-72 (2270P)	A 2270P test vehicle approached the test article at a nominal speed of 62 mph. The first T1260M sign stand impacted was oriented at 0° and the second at 90°. Upon impact both of the vertical uprights separated from the base causing the sign face to make contact with the windshield of the vehicle. There was no penetration into the test vehicles occupant compartment nor were the deformation limits exceeded. The devices did not induce any vehicle instability. The T1260M met all the requirements for MASHTest 3-72.	PASS

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:	Applus IDIADA KARCOEngineering, LLC	2.	
LaboratorySignature:		Bright of Schless (Nick conv. CUS DN: cn=Nick Injev, o=Applus IDIADA KARCO,ou, Date: 2020.01.1712:26:50-08'00'	
Address:	9270 Holly Road, Adelanto, CA 92301	SameasSubmitter	
Country:	USA	SameasSubmitter	
Accreditation Certificate Number and Dates of current Accreditation period :	TL-371:July 1,2019 - July 1,2022		

SubmitterSignature*: EricWilletts

Submit Form

ATTACHMENTS

Attach to this form:

- 1) Additional disclosures of related financial interest as indicated above.
- 2) A copy of the full test report, video, and a Test Data Summary Sheet for each test conducted in support of this request.
- 3) 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 relevant to understanding the dimensions and performance of the device should also be submitted to facilitate our review.

FHWA Official Business Only:

Eligibility Letter		
Number	Date	Key Words

MASH 2016 Test 3-71 Summary

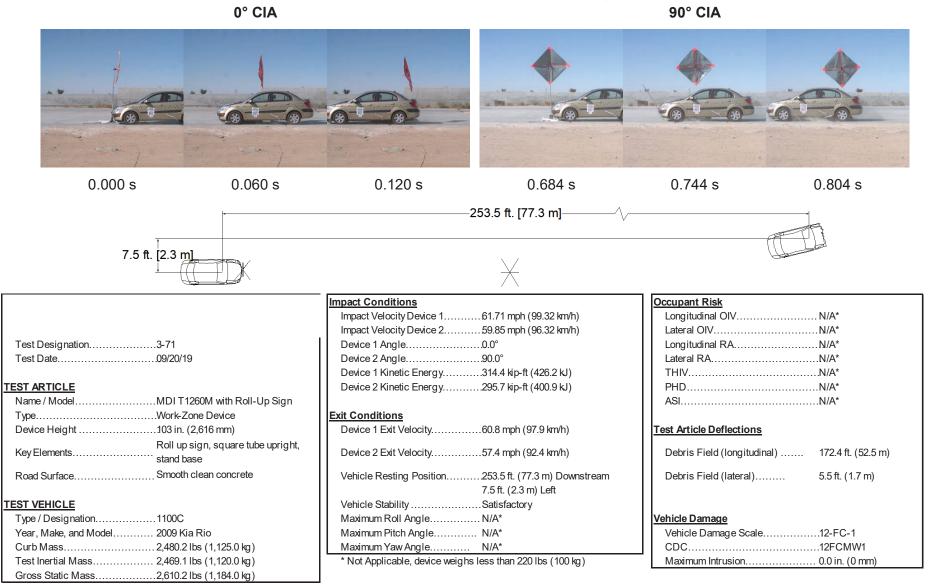


Figure 2 Summary of Test 3-71

MASH 2016 Test 3-72 Summary

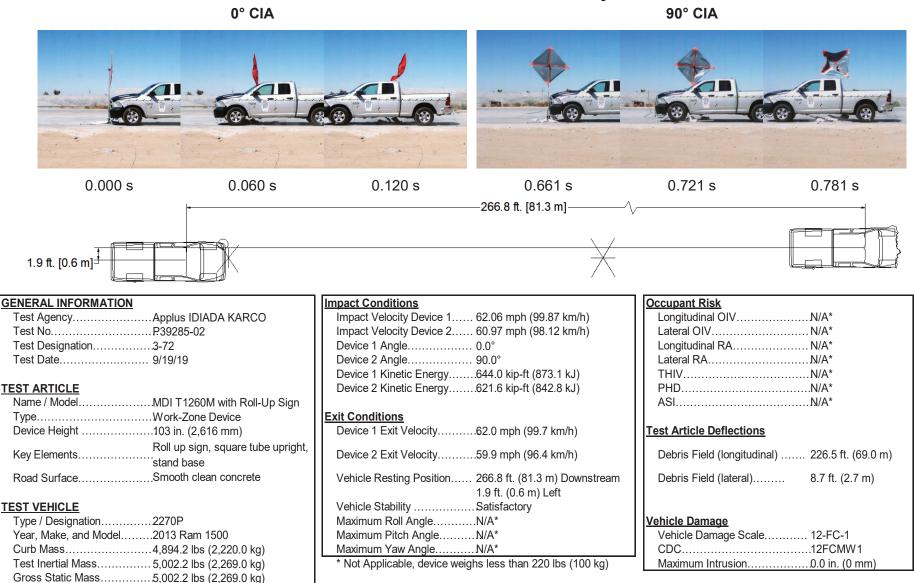


Figure 2 Summary of Test 3-72

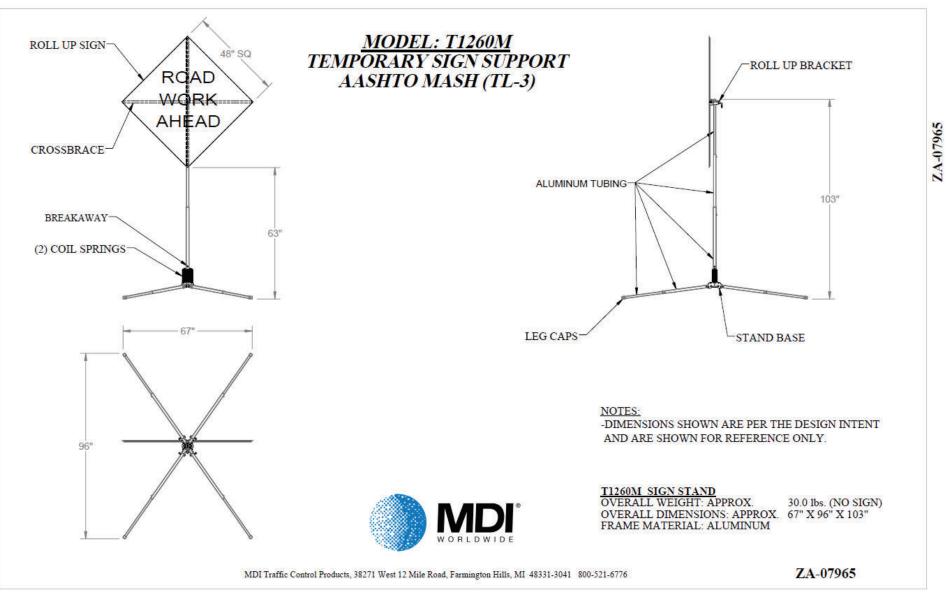


Figure 1: T1260M Sign Stand

B-1

ZA-07965