

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

March 11, 2011

In Reply Refer To: HSST/WZ-302

Mr. Henry A. Ross Director of Government Relations Plasticade Products 7700 N. Austin Avenue Skokie, Illinois 60077

Dear Mr. Ross:

This is in response to your October 8, 2010, letter requesting the Federal Highway Administration's (FHWA) acceptance of your company's SentinelTM Type III Barricade as a crashworthy traffic control device for use in work zones and elsewhere on the National Highway System (NHS). Accompanying your letter was the FHWA Office of Safety Design form indicating successful performance when tested under the American Association of State Highway and Transportation Officials (AASHTO) Manual for Assessing Safety Hardware (MASH) Test 3-71 (modified.)

You requested that we find the SentinelTM Type III Barricade acceptable for use on the NHS under the provisions of the AASHTO MASH. Evaluation with the 1100C passenger car at low speed (Test 3-70), and the 2270P pickup-truck at high speed (3-72) are requirements under the MASH. Your request was accompanied by a January 17, 2010, letter from E-Tech Testing Services requesting a waiver of both MASH Tests 3-70 and 3-72 because of the nature of the test articles and geometry of the vehicles. We concur in the waiver of these tests.

This letter is the acknowledgement of the FHWA's acceptance of your request. The original completed form has been modified by the addition of the FHWA acceptance letter number and the date of our review. The form, of which a copy is enclosed for reference, will be posted on our Web site in the near future.

Sincerely yours,

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

Enclosures



Page 1	FEDERAL HIGHWAY ADMINISTRATION	Letter Number
	OFFICE OF SAFETY DESIGN	WZ-302
	Category 2 Work Zone Device Acceptance Letter	Date
1920		3-8-2011
Contact Info	Petitioner / Developer Name and Address:	
	Plasticade Products (An American Louver Co.)	
	7700 N. Austin Avenue	
	Skokie, IL 60077	
	I herby certify that the device(s) covered by this Acceptance Lett	ter meet(s) the crash
	- worthiness test and evaluation requirements of the FHWA and	
Signature		
Telephone #	847-583-4175	
Email Address	Henry Ross [hross@americanlouver.com]	
	Laboratory / Engineer Name and Address	
	John F. LaTurner, P.E.	
	E-TECH Testing Service, Inc.	
Check One:	3617 Cincinnati Ave.	
	Rocklin, CA 95765	
X	I hereby certify that the testing that supports this Acceptance Let	
Δ	accordance with MASH guidelines, that the device(s) tested is/ar described on this form, and that the test results indicate that the d	
	applicable MASH evaluation criteria.	levice meets un
	I have evaluated the requested modifications to these devices pre	
	acceptable by the FHWA in Acceptance Letter WZ, and her	
	my opinion, the modifications do not adversely affect the crash p devices. I also certify that these devices are accurately described	
Signature	John F. Linner	
0	John J. accusine	
Telephone #	916-644-9146	
Email Address	John LaTurner [john.laturner@trin.net]	
Keywords:		
reg words.	Type of Device (See page 3)	
	Type III Barricade	
	Composition of Sign or Rail substrate (See Page 3)	
	Extruded white UV stabilized high density polyethylene plastic Thickness of substrate (inches): N/A Height of sign from the ground (inches), if applicable: (See Page 3) N/A Flags and or lights present during test? Indicate number of each:	
		lights: 2.6 lb ea.
Device Name	Sentinel Type III Barricade	

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WZ-302

Detailed Desc.	(May be attached on separate page(s)
Of Device,	
Materials, sizes,	See attached "MASH Crash Test Results for the Sentinel Type III
Fasteners,	Barricade" E-TECH Report #367
Substrates	-
Foundation,	
Aux. Features	
Ballast, etc.	

, **;**

Page 2		HIGHWAY ADMINISTRATION	Letter Number	
	and the second se	CE OF SAFETY DESIGN	WZ-302	
	Category 2 Wo	ork Zone Device Acceptance Letter	Date 3-8-11	
		andatory Attachments	The second state of the second state	
		1: Test data summary page(s)		
	Attach. #1a	Test # 76-6273-004 (MASH Test 3	-71)	
	Attach. #1b	Test #		
	Attach. #1c	Test #		
	Attach. #1d	Test #		
Alternative		Attachment # 1: Description and discussion of modification(s) to		
	crash tested and	/or accepted device.	2015-13	
	Date:			
	Attachment # 2	2: PDF drawing(s) of device(s)		
	Attach. #2a	Drawing Title:		
		Drawing #:		
	Attach. #2b	Drawing Title:		
		Drawing #:		
	Attach. #2c	Drawing Title:		
		Drawing #:		
	Attach. #2d	Drawing Title:		
		Drawing #:		
	Attach. #2e	Drawing Title:		
		Drawing #:		
	Attach. #2f	Drawing Title:		
		Drawing #:		
	Attach. #2g	Drawing Title:		
		Drawing #:		

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Page 3	FEDERAL HIGHWAY ADMINISTRATION	Letter Number
		WZ-302
	Category 2 Work Zone Device Acceptance Letter	Date
		3-8-11

Please select from the following Keywords for "Type of Device":

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Longitudinal Channelizing Barricade Curb (Curb channelizer system with or without road tubes or other channelizers) Drum H-Footprint Sign Stand X-Footprint Sign Stand Trailer Mounted Signs (Does not include arrow boards or variable message signs or other Category 4 trailer mounted devices.) Automated Flagger Device (not trailer mounted) **Tripod Sign Stand** Type I Barricade Type II Barricade Type III Barricade Vertical Panel Intrusion Detector Ballast (Action relates to ballast on one or more devices) Channelizer (Individual units unlike cones, road tubes, or drums)

Please select from the following Keywords for "Sign Substrate":

Roll-up / Fabric (with fiberglass spreaders – aluminum or steel spreaders are not allowed.) Plywood Aluminum – Solid Aluminum – Laminate Corrugated Plastic Extruded Plastic Waffleboard Plastic Wood / Lumber

Please select from the following Keywords for "Height of Sign":

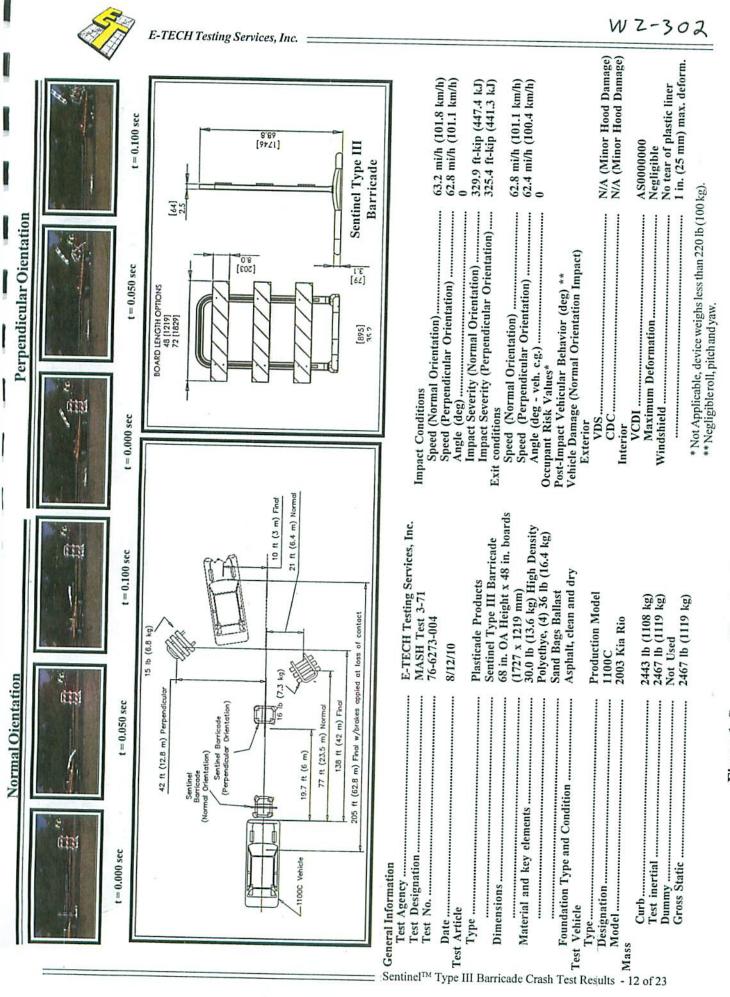
The distance to the lowest point on the sign is:

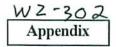
Low	12 to 18 inches above the pavement
Mid-A	20 to 24 inches above the pavement
Mid-B	25 to 36 inches above the pavement
Mid-C	37 to 59 inches above the pavement
Tall	60 to 71 inches above the pavement
Oversized	72 inches and taller

Page 4	FEDERAL HIGHWAY ADMINISTRATION	Letter Number
	OFFICE OF SAFETY DESIGN	WZ-302
	Category 2 Work Zone Device Acceptance Letter	Date 3 - 8 - 11

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

- Our acceptance is limited to the crashworthiness characteristics of the devices and does not cover their structural features, or conformity with the Manual on Uniform Traffic Control Devices.
- Any changes that may adversely influence the crashworthiness of the device will require a new acceptance letter.
- Should the FHWA discover that the qualification testing was flawed, that in-service performance reveals unacceptable safety problems, or that the device being marketed is significantly different from the version that was crash tested, it reserves the right to modify or revoke its acceptance.
- 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 essentially the same chemistry, mechanical properties, and geometry as that submitted for acceptance, and that they will meet the crashworthiness requirements of FHWA and NCHRP Report 350.
- To prevent misunderstanding by others, this letter of acceptance shall not be reproduced except in full. This letter, and the test documentation upon which this letter is based, is public information. All such letters and documentation may be reviewed at our office upon request.
- If the subject of this letter is a patented device it is considered "proprietary." The use of proprietary work zone traffic control devices in Federal-aid projects is generally of a temporary nature. They are *selected by the contractor* for use as needed and removed upon completion of the project. Under such conditions they can be presumed to meet requirement "a" given below for the use of proprietary products on Federal-aid projects. On the other hand, if proprietary devices are *specified by a highway agency* for use on Federal-aid projects they: (a) must be supplied through competitive bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with existing highway facilities or that no equally suitable alternative exists or; (c) they must be used for research or for a distinctive type of construction on relatively short sections of road for experimental purposes. Our regulations, Section 635.411, a copy of which is enclosed.
- This Acceptance Letter shall not be construed as authorization or consent by the Federal Highway Administration to use, manufacture, or sell any patented device for which the applicant is not the patent holder. The Acceptance Letter is limited to the crashworthiness characteristics of the candidate device, 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.





E-TECH Testing Services, Inc.

