

In Reply Refer To: HSSD/WZ-280

Mr. John Reynolds Chief Engineer Work Zone Safety Products 14817 Rosetown Ave. Fontana, CA 92336

Dear Mr. Reynolds:

In your letter of April 10, 2009, you requested the Federal Highway Administration (FHWA) acceptance of the WZ Deluxe Tri-Pod temporary sign stand as a crashworthy traffic control device for use in work zones on the National Highway System (NHS). You requested acceptance of the temporary sign stand for use with the following sign substrate material: 1/2 inch thick plywood, 0.125 inch thick aluminum, 2 mm and 3 mm aluminum laminate, corrugated plastic, and roll-up material. Your request for acceptance is based on the performance of the generic tri-pod sign stand accepted in FHWA letters WZ-240 and a similar tri-pod stand in WZ-207. Accompanying your letter were the FHWA Office of Safety Design forms that included a drawing and a detailed description of the WZ Deluxe Tri-Pod. Drawings of the WZ Deluxe Tri-Pod are enclosed for reference. You requested that we find the WZ Deluxe Tri-Pod acceptable for use as a Test Level 3 device on the NHS under the provisions of the National Cooperative Highway Research Program Report 350 "Recommended Procedures for the Safety Performance Evaluation of Highway Features".

This letter acknowledges FHWA's acceptance of your request. The original completed forms have been modified by the addition of the FHWA acceptance letter number and the date of our review. The forms will be posted on our Web site in the near future.

Sincerely yours,

David A. Nicol, P.E.

Director, Office of Safety Design

Office of Safety

Enclosures



Page 1	FEDERAL HIGHWAY ADMINISTRATION	Letter Number
·	OFFICE OF SAFETY DESIGN	₩X-280 €
	Category 2 Work Zone Device Acceptance Letter	Date 4/7/2009
Contact Info	Petitioner / Developer Name and Address:	
	Work Zone Safety Products Inc. 14817 Rosetown Ave. Fontana, California 92336	
	I herby certify that the device(s) covered by this Acceptance Lett - worthiness test and evaluation requirements of the FHWA and	ter meet(s) the crash NCHRP Report 350.
Signature	- John Royneles	
Telephone #	(909) 266-1453	_
Email Address	john@workzonesafetyproducts.com	
	Laboratory / Engineer Name and Address	
i 	John Reynolds 14817 Rosetown Ave. Fontana, California 92336	!
	I hereby certify that the testing that supports this Acceptance Let accordance with NCHRP Report 350 guidelines, that the device accurately described on this form, and that the test results indicat meets all applicable NCHRP Report 350 evaluation criteria.	s) tested is/are
7	I have evaluated the requested modifications to these devices pre acceptable by the FHWA in Acceptance Letter WZ-240 and her my opinion, the modifications do not adversely affect the crash p devices. I also certify that these devices are accurately described	eby certify that, in erformance of the
Signature	Joh Regner	
Telephone #	(909) 587-8942	
Email Address	john@workzonesafetyproducts.com	<u> </u>
Keywords:	- 	
	Type of Device (See page 3)	
	Tripod Sign Stand	
	Composition of Sign or Rail substrate (See Page 3)	
	Roll-up / Fabric (with fiberglass spreaders – aluminum or steel spreaders	eaders are not allowed
	Thickness of substrate (inches): 0,5	
	Height of sign from the ground (inches), if applicable:	(See Page 3)
	Low: 12 to 18 inches above the pavement	
	Flags and or lights present during test? Indicate number	er of each:
	# of flags: O # of lights: O Weight of	lights: ea.
Device Name	Deluxe Tripod Sign Stand	
Detailed Desc.	(May be attached on separate page(s)	
Of Device,	The "Deluxe Tri-Pod" is a "triangular footprint" of a "tri-pod	portable sign stand
Materials, sizes,	with a steel upright support measuring 1.25 inches square	with a wall
Fasteners,	thickness of 0.070 inches. A 1" inch steel inner mast extend	
Substrates	height of 73 inches supporting a 48" x 48" diamond sign at inches above the pavement. The mast is supported on three	
Foundation,	square steel folding legs which form from an upper joining	
Aux. Features	is attached to the telescoping inner mast.	
Ballast, etc.		

Page 2			INISTRATION	Letter Number
	OFFIC	E OF SAFETY	DESIGN	WZ-280F
	Category 2 Wor	rk Zone Device .	Acceptance Letter	Date 4/7/2009
	Ma	ndatory Attach	ments	
	Attachment # 1:	Test data summ	ary page(s)	
	Attach. #la	Test #		
	Attach. #1b_	Test #		
	Attach. #1c	Test #		
	Attach. #ld	Test #		
Alternative			discussion of modif	ication(s) to
	crash tested and/	or accepted device	e	
	Date: 04/09/20	09		
•	Attachment # 2:	PDF drawing(s)	of device(s)	
	Attach. #2a	Drawing Title:	Deluxe Tripod Stand	
		Drawing #:	2200-00	
	Attach. #2b	Drawing Title:	Heart Plate Assy	
		Drawing #:	93100	
	Attach. #2c	Drawing Title:	Mast	
		Drawing #:	93220	
	Attach. #2d	Drawing Title:	Mast Assy	1
		Drawing #:	93200	
•	Attach. #2e	Drawing Title:	Front Leg	•
		Drawing #:	93X10	
	Attach. #2f	Drawing Title:	Back Leg	
		Drawing #:	93310	
•	Attach. #2g	Drawing Title:		
		Drawing #:	93310	•

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	OFFICE OF SAFETY DESIGN	WZ-28U
	Category 2 Work Zone Device Acceptance Letter	Date 4/7/2009
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Please select from the following Keywords for "Type of Device":

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

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	OFFICE OF SAFETY DE		WZ-280
	Category 2 Work Zone Device Acc	eptance Letter Da	te4/7/2009
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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 concerning proprietary products are contained in Title 23, Code of Federal 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.









