

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

10/22/10

In Reply Refer To: HSSI/WZ-294

Mr. John M. Pasakarnis Dicke Safety Products 1201 Warren Avenue Downers Grove, IL 60515

Dear Mr. Pasakarnis:

This is in response to your October 7 correspondence requesting the Federal Highway Administration's (FHWA) acceptance of a number of your company's portable sign stands with 60-inch x 60-inch roll up signs as 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 explaining that all the stands were found acceptable with 48-inch x 48-inch signs, but that the 60 x 60 signs would be affixed to the stands so that the top of the sign is at the same height as the 48 x 48 signs. You requested that we find these devices acceptable for use on the NHS under the provisions of National Cooperative Highway Research Program Report 350 "Recommended Procedures for the Safety Performance Evaluation of Highway Features."

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

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Office of Safety

Enclosure



October 07, 2010 Revision #1

Mr. Nick Artimovich, II Highway Engineer Federal Highway Administration Office of Safety Design 1200 New Jersey Avenue, SE HSSD Washington, DC 20590

Dear Mr. Artimovich,

This inquiry is in regards to our follow-up regarding the impact 60x60 roll-up signs would have on previously accepted stands. According to the clarification you provided regarding WZ-85, various sizes of roll-up signs can be accepted without re-testing. The key specification to maintain is the finished sign height, as long as the bottom of the sign is no closer than 12" to the ground. These signs are normally mounted in a rectangular shape, but I have also included data for the diamond shape application. The stand / sign specifications may be found in Table #1 below and in the attached drawing.

Table #1 – Sign Height Comparison

Stand WZ	48x48 Rect Letter Bottom/Top		60x60 Diamond Bottom/Top
TF60 WZ TF84 WZ DF4503 WZ DF4700TX WZ	7-141rev 18" / 86" 7-141rev 60" / 128" 7-141rev 84" / 152" 7-25 84" / 151" 7-250rev 60" / 128"	26" / 86" 68" / 128" 92" / 152" 68" / 128" 91" / 151" 68" / 128"	N/A 43" / 128" 67" / 152" 43" / 128" 66" / 151" 43" / 128"

Request #1:

Based on the enclosed information and previous test data, we are seeking acceptance of the sign stands listed above for use with 60"x60" roll-up signs. We believe this to be a reasonable request because the

design differences all occur below the height of the vehicle bumper. As such, we contend that they will have no effect on the windshield impact data.

Should you need any further documentation, please let me know.

Sincerely,

John M. Pasakarnis Dicke Tool Company 630-969-0050 x28 john@dicketool.com www.dicketool.com

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Compartato	Polisiones / Developes viano and Address:	
	Dicke Sefaty Products 1201 Werren Avenue Downers Grove, IL 60515	
Shensione Felephone I Empil Address	Therby certify that the device(s) covered by this Acceptance Letter worthings test and evaluation requirements of the FHWA and (630) 324-5200 [chn@dickotool.com	
	Laboratory / Gagineer Flance and Address	
To the second se	Dieroby 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 indicate	s) tested is are
	meets all applicable NCHRP Report 350 evaluation criteria. Thave evaluated the requested modifications to these devices pre- acceptable by the FBWA in Acceptance Letter WZ- , and her my opinion, the modifications do not adversely affect the crash p devices. Falso certify that these devices are accurately described	eby certify that, in serformance of the
Signature Telephone // Email Address		
Keywords:] TF18, TF60, TF84, DF4603, DF4700TX, STF1003	
	Type of Device (See page 3)	
THE THE PART OF TH	X-Footprint Sign Stand Composition of Sign or Rail substrate (See Page 3) Roll-up / Fobric (with fiberglass spreaders — oluminum or steel spreaders of substrate (inches);	eaders are not allowed
	Height of sign from the ground (inches), if applicable:	(See Page 3)
The second secon	Flags and or lights present during test? Indicate number # of flags: 2 # of lights: Weight of	
Device Name		
Detailed Desc. Of Device,	(May be attached on separate page(s) See attached revised submittal letter and drawing	
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	Attach, #1c Attach, #1d	Test #							
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	Date: 10/19/2								
	Anach, #2a	i: PDf drawing(s) of dovice(s) Drawing Fitte: WZ Submittal Letter (Drawing 8:	rev#1) (PDF)						
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Longitudinal Channelizing Davriende

Curb (Curb channelizer system with or without road tubes or other channelizers)

Drum

11 Footprin: Sign Sund

Retroopping Sign Stand

Traffer Mounted Signs (Does not include nearly poords or variable message signs or other Category 4 teather mounted devices.)

Automated (Ingger Device (on trailer mounted))

Tripod Sign Stand

Type I Barriende

Type II Sarriende

Type III Bardende

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

Aluminous - Solid

Aluminum - Laminore

Corragated Plastic

Extruded Plastic

Waffleboard Plastic

Wood / Lumber

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

The distance to the lowest point on the sign is:

LOW	— (2 to 18 inches above the pavement
Mid-A	20 to 24 inches above the pavement
Mid-B	25 to 36 inches above the pavement
144ki-(*)	37 to 59 inches above the prevenent
	60 to 71 inches above the pavement
Browning W.	73 Jacobson and Calley

Oversized 72 inches and taller

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Please note the following standard provisions that apply to PHYA 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 any advecacly influence the crosinverthiness of the device will require a sew acceptance letter.
- Should the CHVA discover that the qualification testing was haved, 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 his 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 FDWA and NCHRP Report 350.
- To prevent raisunderstanding 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 lefter 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 Pederal 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 PHVA is neither prepared nor required to become involved in issues concerning patent law. Patent issues, if any, are to be resolved by the applicant.

TALL STANDS

for Roll-up Signs

