U.S. Department
of Transportation
Federal Highway Administration

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

10/22/10

In Reply Refer To:
HSSI/WZ-17A

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

Dear Mr. Pasakarnis:

This is in response to your August 10, 2009, correspondence requesting the Federal Highway Administration's (FHWA) acceptance of your company's DF3000P portable sign stand as a crashworthy traffic control device for use in work zones and elsewhere on the National Highway System. Accompanying your letter was the FHWA Office of Safety Design form noting the only change is a change in the model number – the original Model PS3003S, accepted via FHWA Acceptance Letter WZ-17, is simply being renumbered. You requested that we find this device 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

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

Enclosure

DICKE SAFETY PRODUCTS

1201 Warren Avenue • Downers Grove, IL 60515 • Ph: 877.891.0050 • Fax: 630.969.3973

Mr. Matt Lupes, P.E.
Highway Safety Engineer
Federal Highway Administration
Office of Safety Design – HSSD, Room E71-109
1200 New Jersey Avenue, SE
Washington, DC 20590

August 10, 2009

Matt,

Enclosed is information regarding one of our previously accepted portable sign stands PS3003S (WZ-17). I am submitting drawings and catalog cuts that show the previously approved stand under its new number DF3000P. There were no changes other than the part number. The numbering change was made years ago, but unfortunately we neglected requesting this formal change until now.

Upon your review of this information we request acceptance of this re-numbered stand (DF3000P), based on the fact that there are no discernable changes from the original (PS3003S).

Request #1:
We are seeking acceptance of the DF3000P for the same criteria as the PS3003S.

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

Sincerely,

John M. Pasakarnis
Dicke Tool Company
630-969-0050 x5208
john@dicketool.com
www.dicketool.com

Attachment 1

Page 1	FEDERAL HIGHWAY ADMINISTRATION OFFICE OF SAFETY DESIGN Category 2 Work Zone Device Acceptance Letter	Letter Number WZ-17A Date 10/20/10
Contact Info	Petitioner / Developer Name and Address: Dicke Safety Products 1201 Warren Avenue Downers Grove, IL 60515	
	I herby certify that the device(s) covered by this Acceptance Letter meet(s) the crash worthiness test and evaluation requirements of the FHWA and NCHRP Report 350.	
Signature		
Telephone #	(630) 324-5209	
Email Address	john@dicketool.com	
	Laboratory / Engineer Name and Address	
☐	I hereby certify that the testing that supports this Acceptance Letter was conducted in accordance with NCHRP Report 350 guidelines, that the device(s) tested is/are accurately described on this form, and that the test results indicate that the device meets all applicable NCHRP Report 350 evaluation criteria.	
☐	I have evaluated the requested modifications to these devices previously found acceptable by the FHWA in Acceptance Letter WZ-___, and hereby certify that, in my opinion, the modifications do not adversely affect the crash performance of the devices. I also certify that these devices are accurately described on this form.	
Signature		
Telephone #		
Email Address		
Keywords:	DF3000P	
	Type of Device (See page 3) X-Footprint Sign Stand	
	Composition of Sign or Rail substrate (See Page 3) Roll-up / Fabric (with fiberglass spreaders – aluminum or steel spreaders are not allowed	
	Thickness of substrate (inches):	
	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 of each: # of flags: 2 # of lights: 0 Weight of lights: ea.	
Device Name	DF3000P	
Detailed Desc. Of Device. Materials, sizes, Fasteners, Substrates Foundation, Aux. Features Ballast, etc.	(May be attached on separate page(s) Re-numbered stand. Original number was PS3003S which was tested and accepted under WZ-17.	

Page 2	**FEDERAL HIGHWAY ADMINISTRATION** **OFFICE OF SAFETY DESIGN** **Category 2 Work Zone Device Acceptance Letter**	Letter Number Date
	Mandatory Attachments	
	Attachment # 1: Test data summary page(s)	
	Attach. #1a — Test #	
	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.	
	Date:	
	Attachment # 2: PDF drawing(s) of device(s)	
	Attach. #2a — Drawing Title: DF3000P (WZ Submittal)	
	Drawing #:	
	Attach. #2b — Drawing Title: PS3003S	
	Drawing #:	
	Attach. #2c — Drawing Title: Catalog Sheets (pg10&5)	
	Drawing #:	
	Attach. #2d — Drawing Title:	
	Drawing #:	
	Attach. #2e — Drawing Title:	
	Drawing #:	
	Attach. #2f — Drawing Title:	
	Drawing #:	
	Attach. #2g — Drawing Title:	
	Drawing #:	

Page 3	FEDERAL HIGHWAY ADMINISTRATION OFFICE OF SAFETY DESIGN Category 2 Work Zone Device Acceptance Letter	Letter Number Date

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":

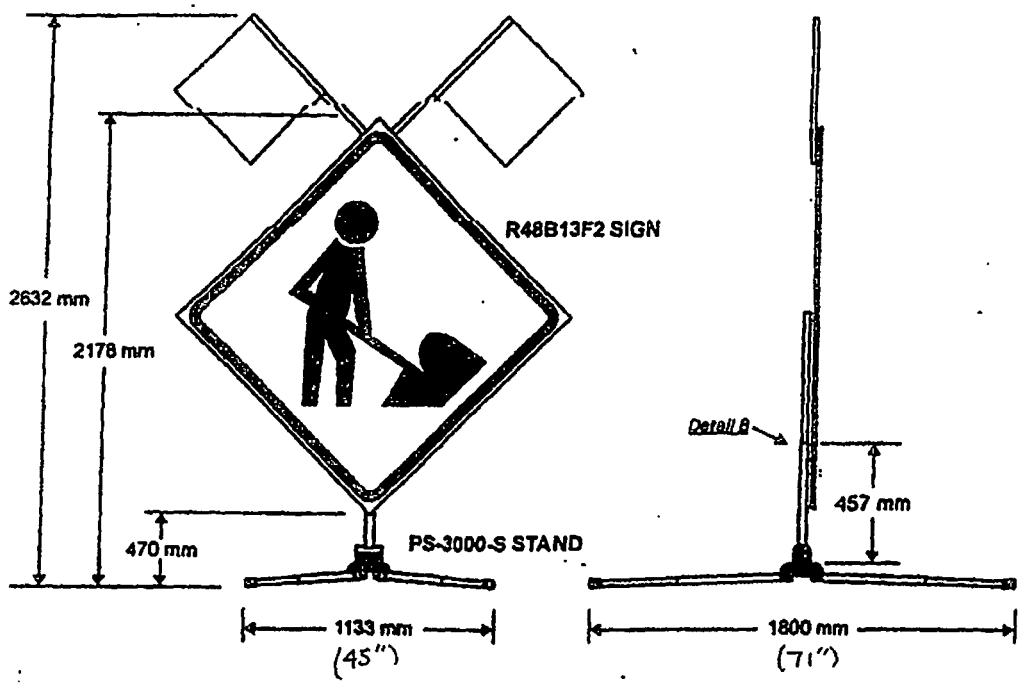
The distance to the lowest point on the sign is:

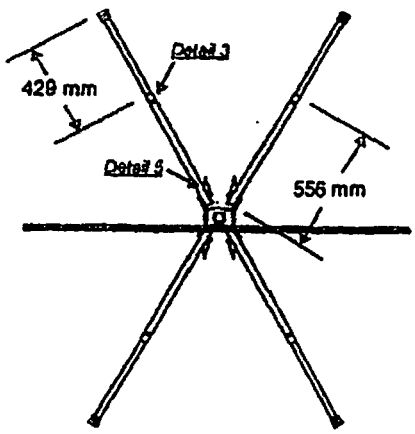
Low	12 to 18 inches above the pavement
Mid-A	20 to 24 inches above the pavement
Mid-B	25 to 36 inches above the pavement
Mid-C	37 to 59 inches above the pavement
Tall	60 to 71 inches above the pavement
Oversized	72 inches and taller

Page 4	FEDERAL HIGHWAY ADMINISTRATION OFFICE OF SAFETY DESIGN Category 2 Work Zone Device Acceptance Letter	Letter Number Date

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.





PS-3000-S STAND

- Base- Steel with double torsion spring system
- Legs- Telescopic 31.68 mm and 25.35 mm sq. aluminum tubing with 2.45 mm and 2.44 mm wall thickness, respectively

R48B13F2 SIGN

- Panel- Reflective vinyl, 1214 mm x 1219 mm
- Crossbrace- Vertical member is 6.32 mm th. x 31.30 mm x 1676 mm long fiberglass with 25.32 mm sq. x 2.50 mm wall x 826 mm long aluminum tube
- Crossbrace- Horizontal member is 4.72 mm th. x 30.97 mm w x 1676 mm long fiberglass
- 2 Flags- 457 mm x 457 mm vinyl with 3.20 mm th. x 24.95 mm w x 610 mm long fiberglass staff

gure 39. System No. 23 Sign Support Details, Test D-12

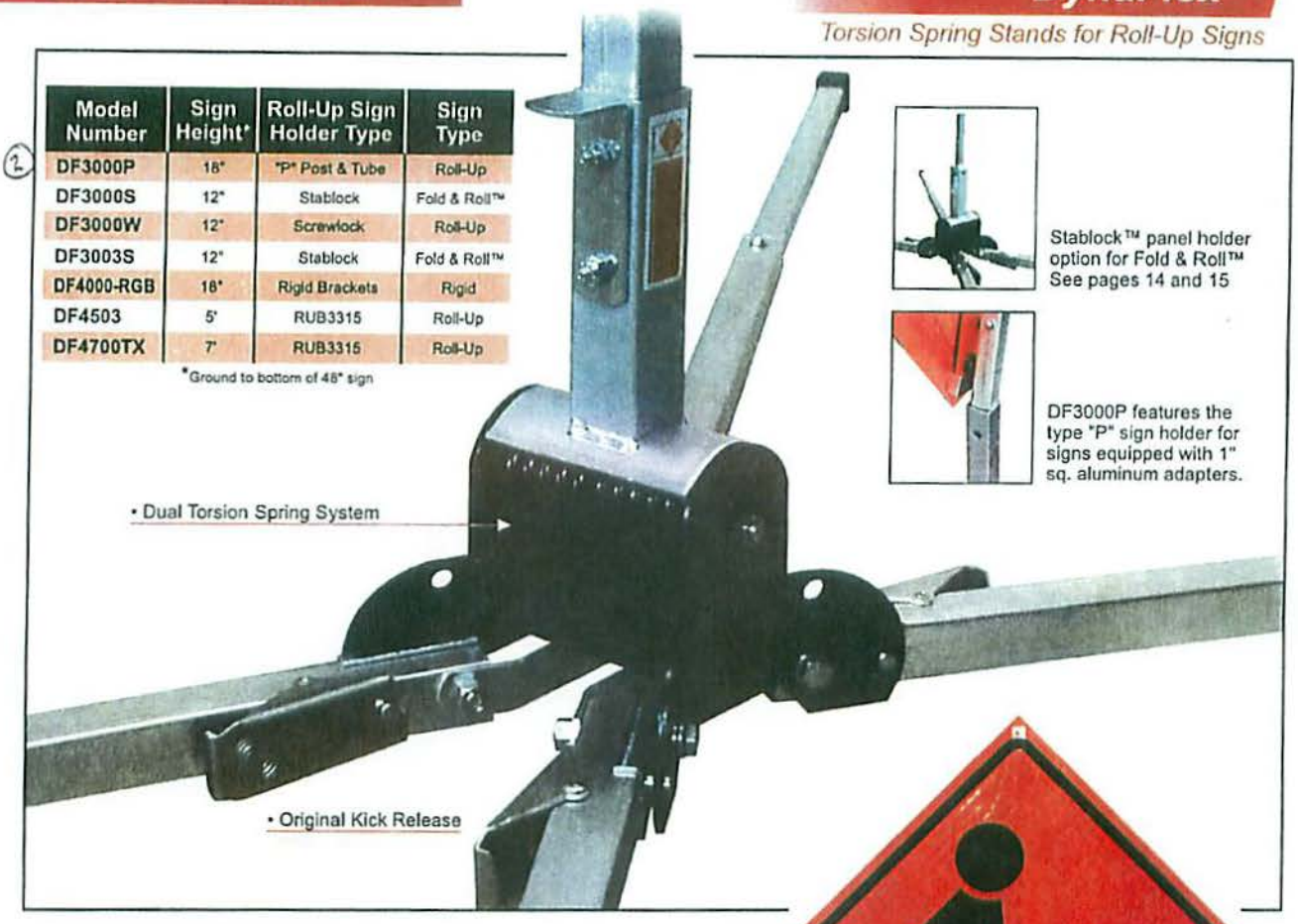
DynaFlex™ Stands

DynaFlex™

Torsion Spring Stands for Roll-Up Signs

Model Number	Sign Height*	Roll-Up Sign Holder Type	Sign Type
DF3000P	18"	"P" Post & Tube	Roll-Up
DF3000S	12"	Stablock	Fold & Roll™
DF3000W	12"	Screwlock	Roll-Up
DF3003S	12"	Stablock	Fold & Roll™
DF4000-RGB	18"	Rigid Brackets	Rigid
DF4503	5'	RUB3315	Roll-Up
DF4700TX	7'	RUB3315	Roll-Up

*Ground to bottom of 48" sign



Stablock™ panel holder option for Fold & Roll™ See pages 14 and 15

DF3000P features the type "P" sign holder for signs equipped with 1" sq. aluminum adapters.

DynaFlex™ compact stands feature steel and aluminum construction for durability and a long service life. Dual heavy duty torsion springs provide stability in gusty wind conditions.

The DynaFlex™ series of compact stands display either standard roll-up signs or our popular Fold and Roll™ signs (see page14) 12" off the ground. Full size DynaFlex™ stands feature a two stage aluminum with models designed to display roll-up signs 5' and 7' off the ground and rigid signs 18" off the ground.

- All DynaFlex™ stands are MUTCD and NCHRP-350 compliant.
- DynaFlex™ compact stands offer two methods of roll-up sign attachment: Screwlock for standard roll-up signs or Stablock for Fold & Roll™ signs, see page 4 for details.
- Heavy duty steel torsion spring system provides a smooth, gliding reaction to wind gusts - no whipping action.
- DF3000 series stands have 22" legs that telescope to 38".

DF3000W

Sign Stand Index

		Sign Types			Stand Specifications			
Model No.	Page	Roll-Up Signs	Rigid Signs	Fold & Roll Signs	Minimum Sign Display Height	Stand Size-Spring Type	Open Footprint	Weight (lbs)
(2) DF3000P	10	●			18"	Mini - 2 Torsion Springs	45" x 71"	18
DF3000S	10			●	12"	Mini - 2 Torsion Springs	45"x 71"	17
DF3000W	10	●			12"	Mini - 2 Torsion Springs	45"x 71"	20
DF3003S	10			●	12"	Mini- 2 Torsion Springs	56" x 92"	19
DF4000-RGB	10		●		18"	Full - 2 Torsion Springs	51" x 91"	29
DF4503	10	●			5'	Full - 2 Torsion Springs	72" x 117"	37
DF4700TX	10	●			7'	Full - 2 Torsion Springs	82" x 128"	42
DL1000A	11	●			12"	Mini - No Spring	42" x 71"	13
DL1000L	11	●			12"	Mini - No Spring	42" x 71"	15
(5) DL1000P	11	●			18"	Mini - No Spring	42" x 71"	13
DL1000W	11	●			12"	Mini - No Spring	42" x 71"	15
(1) DL1008	11	●			18"	Full - No Spring	46" x 78"	17
DL2000L	11	●			12"	Mini - No Spring	16" x 24"	12
DSB100	13	●			12"	Rubber Base - No Spring	20" x 28"	42
DSB100HD	13	●			12"	Rubber Base - No Spring	20" x 28"	48
DSB100HD-W	13	●			12"	Rubber Base - No Spring	20" x 28"	49
DSB100-W	13	●			12"	Rubber base - No Spring	20" x 28"	43
SDL1000A	11	●			14"	Mini - No Spring	41 x 69"	17
SDL1000L	11	●			12"	Mini - No Spring	41" x 69"	19
SDL1000P	11	●			18"	Mini - No Spring	41" x 69"	17
SDL1000W	11	●			12"	Mini - No Spring	41" x 69"	19
(1) SDL1008	11	●			12"	Full - No Spring	47" x 77"	25
STF1230	6	●			18"	Full - 2 Vertical Springs	52" x 73"	28
STF12C	8	●			12"	Mini - 2 Vertical Springs	48" x 66"	28
STF12P	8	●			18"	Mini - 2 Vertical Springs	48" x 66"	27
STF12W	8	●			12"	Mini - 2 Vertical Springs	48" x 66"	29
STF18	6	●	●		18"	Full - 2 Vertical Springs	36" x 84"	40
SUF2000P	9	●			18"	Mini - 1 Vertical Spring	42" x 69"	3
SUF2000W	9	●			12"	Mini - 1 Vertical Spring	42" x 69"	25
T155	12	●	●		18"	Tripod - No Spring	48" x 57"	16
T55	12	●	●		18"	Tripod - No Spring	48" x 57"	10
TF1230	6	●			12"	Full - 2 Vertical Springs	52" x 74"	26
TF12C	8	●			12"	Mini - 2 Vertical Springs	62" x 87"	24
(4) TF12P	8	●			18"	Mini - 2 Vertical Springs	62" x 87"	23
TF12W	8	●			18"	Mini - 2 Vertical Springs	62" x 87"	25
TF18	6	●	●		18"	Full - 2 Vertical Springs	36" x 84"	32
TF60	6	●	●		5'	Full - 2 Vertical Springs	75" x 134"	48
TF84	6	●	●		7'	Full - 2 Vertical Springs	75" x 134"	49
(3) UF2000P	9	●			18"	Mini - 1 Vertical Spring	56" x 92"	20
UF2000W	9	●			12"	Mini - 1 Vertical Spring	56" x 92"	22