



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

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

October 19, 2012

In Reply Refer To:  
WZ-303A

Steve Zimar  
Product Manager  
Eastern Metal/USA-SIGN  
1430 Sullivan St  
Elmira, NY 14901

Dear Mr. Zimar:

This letter is in response to your request for the Federal Highway Administration (FHWA) to review a roadside safety system for eligibility for reimbursement under the Federal-aid highway program.

Name of system: C-301, C-801, and C-802 Sign Stands  
Type of system: X-Footprint compact portable sign stands  
Test Level: NCHRP Report 350 Test Level 3  
Testing conducted by: N/A  
Date of request: March 15, 2012

### **Decision**

The following devices are eligible, with details provided in the form which is attached as an integral part of this letter:

- C-301, C-801, and C-802 Sign Stands

Based on a review of details submitted by the manufacturer certifying the device described herein meets the crash test and evaluation criteria of the National Cooperative Highway Research Program (NCHRP) Report 350, the device is eligible for reimbursement under the Federal-aid highway program. Eligibility for reimbursement under the Federal-aid highway program does not establish approval or endorsement by the FHWA for any particular purpose or use.

The FHWA, the Department of Transportation, and the United States Government do not endorse products or services and the issuance of a reimbursement eligibility letter is not an endorsement of any product or service.

### **Requirements**

To be found eligible for Federal-aid funding, roadside safety devices should meet the crash test and evaluation criteria contained in the NCHRP Report 350 or the American Association of State Highway and Transportation Officials' Manual for Assessing Safety Hardware (MASH).

FHWA: HSST: NArtimovicht: sf: x61331:10/17/12  
File: s: //directory folder/HSST/WZ303A\_SteveZimar.docx  
cc: HSST (NArtimovich;)

**Description**

The device and supporting documentation are described in the attached form.

This letter corrects product identifying information in our letter WZ-303 to you dated November 30, 2011. That letter misidentifies the C-802 sign stand as a C-902 sign stand. The C-902 stand was previously covered by our letters WZ-07, WZ-13, and WZ-56. WZ-303 covers the C-302 sign stand and the C-802 sign stand (erroneously referred to as C-902).

You also noted that Eastern Metal/ USA-Sign is now offering identical stands to the C-302 and C-802 stands except that they incorporate a lower profile base. This smaller base is required in order that the stands will fit into certain storage containers. These stands are identified as Models C-301 and C-801.

**Summary and Standard Provisions**

Therefore, the system described and detailed in the attached form is eligible for reimbursement and may be installed under the range of conditions tested.

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

- This finding of eligibility does not cover other structural features of the systems, nor conformity with the Manual on Uniform Traffic Control Devices.
- Any changes that may influence system conformance with NCHRP Report 350 criteria will require a new reimbursement eligibility letter.
- Should the FHWA discover that the qualification testing was flawed, that in-service performance reveals safety problems, or that the system is significantly different from the version that was crash tested, we reserve the right to modify or revoke this letter.
- You are expected to supply potential users with sufficient information on design and installation 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 crash test and evaluation criteria of the NCHRP Report 350.
- To prevent misunderstanding by others, this letter of eligibility is designated as number WZ-303A and 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 at our office upon request.
- This letter shall not be construed as authorization or consent by the FHWA to use, manufacture, or sell any patented system for which the applicant is not the patent holder. The FHWA does not become involved in issues concerning patent law. Patent issues, if any, are to be resolved by the applicant.

- The Eastern Metal / USA-Sign stands are patented products and considered proprietary. If proprietary systems are specified by a highway agency for use on Federal-aid projects: (a) they must be supplied through competitive bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with the 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.

Sincerely yours,

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

Attachments



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You also noted that Eastern Metal/ USA-Sign is now offering identical stands to the C-302 and C-802 stands except that they incorporate a lower profile base. This smaller base is required in order that the stands will fit into certain storage containers. These stands are identified as Models C-301 and C-801.

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Sincerely yours,

A handwritten signature in blue ink that reads "Michael S. Griffith". The signature is written in a cursive style with a large, stylized initial "M".

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

Attachments

## Request for Federal Aid Reimbursement Eligibility Of Highway Safety Hardware

<b>Submitter</b>	Date of Request:	March 15, 2012	<input checked="" type="radio"/> New <input type="radio"/> Resubmission
	Name:	Steve Zimar	
	Company:	Eastern Metal / USA-Sign	
	Address:	1430 Sullivan St Elmira, NY 14901	
	Country:	USA	
	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.

[Help](#)

System Type	Submission Type	Device Name / Variant	Testing Criterion	Test Level
'WZ': Crash Worthy Work Zor	<input checked="" type="radio"/> Physical Crash Testing <input type="radio"/> FEA & V&V Analysis	C-301, C-801, and C-802 X-Footprint sign stands	NCHRP Report 350	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 NCHRP Report 350 (Report 350) and that the evaluation results meet the appropriate evaluation criteria in the Report 350.

Identification of the individual or organization responsible for the product:

Contact Name:	Steve Zimar	Same as Submitter <input checked="" type="checkbox"/>
Company Name:	Eastern Metal / USA-Sign	Same as Submitter <input checked="" type="checkbox"/>
Address:	1430 Sullivan St Elmira, NY 14901	Same as Submitter <input checked="" type="checkbox"/>
Country:	USA	Same as Submitter <input checked="" type="checkbox"/>

### PRODUCT DESCRIPTION

Modification to Existing Hardware Non-Significant - Effect is positive or Inconsequential
<p>This letter corrects product identifying information in FHWA letter WZ-303 dated November 30, 2011. That letter misidentifies the C-802 sign stand as a C-902 sign stand. The C-902 stand was previously covered by FHWA letters WZ-07, WZ-13, and WZ-56. Wz-303 covers the C-302 sign stand and the C-802 sign stand (erroneously referred to as C-902).</p> <p>Eastern Metal/ USA-Sign is now offering identical stands to the C-302 and C-802 stands except that they incorporate a lower profile base. This smaller base is required in order that the stands will fit into certain storage containers. These stands are identified as Models C-301 and C-801 and are illustrated in the attached product literature.</p>

### CRASH TESTING

A brief description of each crash test and its result:

Required Test Number	Narrative Description	Evaluation Results
3-70 (820C)	Covered in WZ-303	WAIVER REQUEST
S3-70 (700C)	N/A	WAIVER REQUEST
3-71 (820C)	Covered in WZ-303	WAIVER REQUEST
S3-71 (700C)	N/A	WAIVER REQUEST

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:		
Laboratory Contact:	Steve Zimar	Same as Submitter <input checked="" type="checkbox"/>
Address:	1430 Sullivan St Elmira, NY 14901	Same as Submitter <input checked="" type="checkbox"/>
Country:	USA	Same as Submitter <input checked="" type="checkbox"/>
Accreditation Certificate Number and Date:	N/A	

## ATTACHMENTS

Attach to this form:

- 1) A copy of the full test report, video, and a Test Data Summary Sheet for each test conducted in support of this request.
- 2) 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 key to understanding the performance of the device should also be submitted to facilitate our review.

**FHWA Official Business Only:**

Eligibility Letter		AASHTO TF13	
Number	Date	Designator	Key Words
WZ-303A	October 18, 2012	N/A	X-Footprint Sign Stand; Roll up signs; Low mounting height; no auxiliary devices

## C-300 Steel Series Compact C-Stands™



**MADE IN  
USA**



### Coil-Flex Wind-Deflectable C-Stand for ALL Roll-Up Signs

- ◆ C-300 Stands available with a C-301 standard base or a C-302 heavy duty, larger base.
- ◆ Coil-Flex (one steel coil-spring) provides wind-deflection and lateral stability in all conditions.
- ◆ Galvanized steel legs offer maximum resistance to rust and corrosion. The 2-position, 2-piece telescoping legs adjust for maximum stability on uneven terrain and road shoulders. Legs available in Short (38" extended) -or- Long (50" extended).
- ◆ C-300 Stands are available with a Direct-Drive™ or Kick-Lever™ leg-release system.
- ◆ Roll-Up Signs attach to the C-300 Series Stands with a Spin-Handle™ or Quik-Attach™ lever. Attachments are universal and function with ALL C-Signs™ and R-Signs.
- ◆ C-300 Series Stands are NCHRP-350 Accepted for use with ALL Roll-Up Signs.
- ◆ High quality construction backed by a one year warranty on our workmanship.



Roadway Safety Products™ Division  
1430 Sullivan Street, Elmira, NY 14901  
1-800-USA-SIGN • [www.usa-sign.com](http://www.usa-sign.com)



# C-300 Steel Series Compact C-Stands™

## C-301 Specifications (standard base)

Model No.	Leg Short Long	Feature Code:	Leg-Release System (built-in)	Roll-Up Sign Attachment (built-in)	Wind Deflection System	Above Grade Clearance (w/48" sign)	Material (stand legs & half-mast)	Weight (without sign or flags)	Dimensions (in inches) open/folded
C-301	S	-KLSH	Kick-Lever™	Spin-Handle™	Coil-Flex	21"	Galvanized Steel	25 lbs. (11.3 kg)	37 x 72 x 31 / 9 x 8 x 29
C-301	S	-KLQA	Kick-Lever™	Quik-Attach™	Coil-Flex	21"	Galvanized Steel	25 lbs. (11.3 kg)	37 x 72 x 31 / 9 x 8 x 29
C-301	S	-DDSH	Direct-Drive™	Spin-Handle™	Coil-Flex	21"	Galvanized Steel	25 lbs. (11.3 kg)	37 x 72 x 31 / 9 x 8 x 29
C-301	S	-DDQA	Direct-Drive™	Quik-Attach™	Coil-Flex	21"	Galvanized Steel	25 lbs. (11.3 kg)	37 x 72 x 31 / 9 x 8 x 29
C-301	L	-KLSH	Kick-Lever™	Spin-Handle™	Coil-Flex	21"	Galvanized Steel	28.25 lbs. (12.8 kg)	48 x 96 x 32 / 9 x 8 x 30
C-301	L	-KLQA	Kick-Lever™	Quik-Attach™	Coil-Flex	21"	Galvanized Steel	28.25 lbs. (12.8 kg)	48 x 96 x 32 / 9 x 8 x 30
C-301	L	-DDSH	Direct-Drive™	Spin-Handle™	Coil-Flex	21"	Galvanized Steel	28.25 lbs. (12.8 kg)	48 x 96 x 32 / 9 x 8 x 30
C-301	L	-DDQA	Direct-Drive™	Quik-Attach™	Coil-Flex	21"	Galvanized Steel	28.25 lbs. (12.8 kg)	48 x 96 x 32 / 9 x 8 x 30

**New York Headquarters**  
 1430 Sullivan Street  
 Elmira, NY 14901  
 phone: 1-800-872-7446  
 fax: 607-734-8783



**Roadway Safety Products™ Division**  
 1-800-USA-SIGN • [www.usa-sign.com](http://www.usa-sign.com)

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**Atlanta Service Center**  
 4611 A/B Greer Circle  
 Stone Mountain, GA 30083  
 phone: 770-492-8601  
 fax: 770-492-8602

## C-800 Aluminum Series Compact C-Stands™



**MADE IN  
USA**



### Coil-Flex Wind-Deflectable C-Stand for ALL Roll-Up Signs

- ◆ C-800 Stands available with a C-801 standard base or a C-802 heavy duty, larger base.
- ◆ Coil-Flex (one steel coil-spring) provides wind-deflection and lateral stability in all conditions.
- ◆ Aluminum legs offer maximum resistance to rust and corrosion and are lighter weight compared to C-300 Series Galvanized Steel legs. The 2-position, 2-piece telescoping legs adjust for maximum stability on uneven terrain and road shoulders. Legs available in Short (38" extended) -or- Long (50" extended).
- ◆ C-800 Stands are available with a T-Pin, Direct-Drive™ or Kick-Lever™ leg-release system.
- ◆ Roll-Up Signs attach to the C-800 Series Stands with a Spin-Handle™ or Quik-Attach™ lever. Attachments are universal and function with ALL C-Signs™ and R-Signs.
- ◆ C-800 Series Stands are NCHRP-350 Accepted for use with ALL Roll-Up Signs.
- ◆ High quality construction backed by a one year warranty on our workmanship.



Roadway Safety Products™ Division  
1430 Sullivan Street, Elmira, NY 14901  
1-800-USA-SIGN • [www.usa-sign.com](http://www.usa-sign.com)

# C-800 Aluminum Series Compact C-Stands™

## C-801 Specifications (standard base with aluminum legs)

Model No.	Leg Short Long	Feature Code:	Leg-Release System (built-in)	Roll-Up Sign Attachment (built-in)	Wind Deflection System	Above Grade Clearance (w/48" sign)	Material (stand legs)	Weight (without sign or flags)	Dimensions (in inches) open/folded
C-801	S	-KLSH	Kick-Lever™	Spin-Handle™	Coil-Flex	21"	Aluminum	21 lbs. (9.5 kg)	37 x 72 x 31 / 9 x 8 x 29
C-801	S	-KLQA	Kick-Lever™	Quik-Attach™	Coil-Flex	21"	Aluminum	21 lbs. (9.5 kg)	37 x 72 x 31 / 9 x 8 x 29
C-801	S	-DDSH	Direct-Drive™	Spin-Handle™	Coil-Flex	21"	Aluminum	21 lbs. (9.5 kg)	37 x 72 x 31 / 9 x 8 x 29
C-801	S	-DDQA	Direct-Drive™	Quik-Attach™	Coil-Flex	21"	Aluminum	21 lbs. (9.5 kg)	37 x 72 x 31 / 9 x 8 x 29
C-801	L	-KLSH	Kick-Lever™	Spin-Handle™	Coil-Flex	21"	Aluminum	24.25 lbs. (11.0 kg)	48 x 96 x 32 / 9 x 8 x 30
C-801	L	-KLQA	Kick-Lever™	Quik-Attach™	Coil-Flex	21"	Aluminum	24.25 lbs. (11.0 kg)	48 x 96 x 32 / 9 x 8 x 30
C-801	L	-DDSH	Direct-Drive™	Spin-Handle™	Coil-Flex	21"	Aluminum	24.25 lbs. (11.0 kg)	48 x 96 x 32 / 9 x 8 x 30
C-801	L	-DDQA	Direct-Drive™	Quik-Attach™	Coil-Flex	21"	Aluminum	24.25 lbs. (11.0 kg)	48 x 96 x 32 / 9 x 8 x 30

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