



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

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

September 6, 2017

In Reply Refer To:
HSST-1/ WZ-351

Henry A. Ross, Director
Government Relations
Plasticade
7700 N. Austin Avenue
Skokie, IL 60077

Dear Mr. Ross:

This letter is in response to your April 7, 2017 request for the Federal Highway Administration (FHWA) to review a roadside safety device, hardware, or system for eligibility for reimbursement under the Federal-aid highway program. This FHWA letter of eligibility is assigned FHWA control number WZ-351 and is valid until a subsequent letter is issued by FHWA that expressly references this device.

Decision

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

- Plasticade SS300/SS300A Sign Stand System with Industry Standard 48"x48" Rollup Sign

Scope of this Letter

To be found eligible for Federal-aid funding, new roadside safety devices should meet the crash test and evaluation criteria contained in the American Association of State Highway and Transportation Officials' (AASHTO) Manual for Assessing Safety Hardware (MASH). However, the FHWA, the Department of Transportation, and the United States Government do not regulate the manufacture of roadside safety devices. Eligibility for reimbursement under the Federal-aid highway program does not establish approval, certification or endorsement of the device for any particular purpose or use.

This letter is not a determination by the FHWA, the Department of Transportation, or the United States Government that a vehicle crash involving the device will result in any particular outcome, nor is it a guarantee of the in-service performance of this device. Proper manufacturing, installation, and maintenance are required in order for this device to function as tested.

This finding of eligibility is limited to the crashworthiness of the system and does not cover other structural features, nor conformity with the Manual on Uniform Traffic Control Devices.

Eligibility for Reimbursement

Based solely on a review of crash test results and certifications submitted by the manufacturer, and the crash test laboratory, FHWA agrees that the device described herein meets the crash test and evaluation criteria of the American Association of State Highway and Transportation Officials' Manual for Assessing Safety Hardware (MASH). Therefore, the device is eligible for reimbursement under the Federal-aid highway program if installed under the range of tested conditions.

Name of system: Plasticade SS300/SS300A Sign Stand System Industry Standard
48"x48" Rollup Sign

Type of system: Work Zone Traffic Control Devices

Test Level: MASH Test Level 3

Testing conducted by: E-Tech

Date of request: April 7, 2017

Date of completed package: June 29, 2017

FHWA concurs with recommendation of the accredited crash testing laboratory as stated within the attached form on determination of eligibility for the sign substrate that was physically tested (Industry Standard 48"x48" Rollup Sign). This determination of eligibility does not apply to other sign substrates not physically tested, but recommended by the laboratory. If an eligibility letter is requested on these other sign substrates, this will require successful physical crash testing as per 2016 AASHTO MASH.

Full Description of the Eligible Device

The device and supporting documentation, including reports of the crash tests or other testing done, videos of any crash testing, and/or drawings of the device, are described in the attached form.

Notice

This eligibility letter is issued for the subject device as tested. Modifications made to the device are not covered by this letter and will need to be tested in accordance with all recommended tests in AASHTO's MASH as part of a new and separate submittal.

You are expected to supply potential users with sufficient information on design, installation and maintenance 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 test and evaluation criteria of AASHTO's MASH.

Issuance of this letter does not convey property rights of any sort or any exclusive privilege. This letter is based on the premise that information and reports submitted by you are accurate and correct. We reserve the right to modify or revoke this letter if: (1) there are any inaccuracies in

the information submitted in support of your request for this letter, (2) the qualification testing was flawed, (3) in-service performance or other information reveals safety problems, (4) the system is significantly different from the version that was crash tested, or (5) any other information indicates that the letter was issued in error or otherwise does not reflect full and complete information about the crashworthiness of the system.

Standard Provisions

- To prevent misunderstanding by others, this letter of eligibility designated as FHWA control number WZ-351 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 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.
- If the subject device is a patented product it may be considered to be 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,



Robert Ritter
Acting Director, Office of Safety
Technologies
Office of Safety

Enclosures

Request for Federal Aid Reimbursement Eligibility of Highway Safety Hardware

Submitter	Date of Request:	April 05, 2017	<input checked="" type="radio"/> New <input type="radio"/> Resubmission
	Name:	Henry A. Ross	
	Company:	Plasticade	
	Address:	7700 N. Austin Avenue, Skokie, IL 60077	
	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.

Device & Testing Criterion - Enter from right to left starting with Test Level

!-!-!

System Type	Submission Type	Device Name / Variant	Testing Criterion	Test Level
'WZ': Crash Worthy Work Zone Traffic Control Devices	<input checked="" type="radio"/> Physical Crash Testing <input type="radio"/> Engineering Analysis	Plasticade SS300/SS300A Sign Stand System	AASHTO MASH	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 AASHTO Manual for Assessing Safety Hardware and that the evaluation results meet the appropriate evaluation criteria in the MASH.

Individual or Organization responsible for the product:

Contact Name:	Henry A. Ross	Same as Submitter <input checked="" type="checkbox"/>
Company Name:	Plasticade	Same as Submitter <input checked="" type="checkbox"/>
Address:	7700 N. Austin Avenue, Skokie, IL 60077	Same as Submitter <input checked="" type="checkbox"/>
Country:	USA	Same as Submitter <input checked="" type="checkbox"/>

Enter below all disclosures of financial interests as required by the FHWA 'Federal-Aid Reimbursement Eligibility Process for Safety Hardware Devices' document.

The Plasticade SS300/SS300A Sign Stand System is the commercial embodiment of intellectual property that is not protected by patents. Plasticade does not pay royalties for sales of the Plasticade SS300/SS300A Sign Stand System. The Plasticade SS300/SS300A Sign Stand System was designed and developed by engineers at Plasticade.

Plasticade sponsored certain crash tests of the Plasticade SS300/SS300A Sign Stand System; such tests were conducted by E-Tech Testing Services, an independent, wholly-owned subsidiary of Trinity Highway. E-Tech Testing Services is an International Standards Organization (ISO) 17025 accredited laboratory with American Association for Laboratory Accreditation (A2LA) Mechanical Testing certificate 989.01. Full-scale crash testing on the Plasticade SS300/SS300A Sign Stand System was performed in accordance with testing criteria, as set forth by the Manual for Assessing Safety Hardware (MASH), 2009.

PRODUCT DESCRIPTION

- ☒ New Hardware or Significant Modification
 ☐ Modification to Existing Hardware

Plasticade's SS300/SS300A Sign Stand System is a work zone traffic control device designed to regulate, warn, and advise road users to traverse a section of highway or street in the proper manner. The sign stand consists of a frame with four extendable legs and components to secure an industry standard 1.22 m x 1.22 m or smaller rollup fabric sign. The construction of the SS300 and SS300A sign stands are identical, except for the material for the extendable legs – the SS300 utilizes powder coated steel legs while the SS300A stand utilizes aluminum legs. The vertical upright structures on both stands are aluminum while the base assembly and associated mounting hardware are steel. The rollup fabric signs were attached to the stand using the integrated clamping mechanism. The as tested mounting height of the sign measures 0.33 m above grade. The legs were extended for testing. The SS300 stand weighs 8.5 kg, excluding the 2.3 kg rollup sign. The SS300A stand weighs 7.7 kg, excluding the 2.3 kg rollup sign.

CRASH TESTING

By signature below, the Engineer affiliated with the testing laboratory, agrees in support of this submission that all of the critical and relevant crash tests for this device listed above were conducted to meet the MASH test criteria. The Engineer has determined that no other crash tests are necessary to determine the device meets the MASH criteria.

Engineer Name:	Paul Kruse	
Engineer Signature:	Paul Kruse	Digitally signed by Paul Kruse DN: cn=Paul Kruse, o=Trinity Highway, ou=E-TECH Testing Services, email=paul.kruse@etechtesting.com, c=US Date: 2017.04.06 13:19:33 -0700 Adobe Acrobat DC version: 2015.023.20070
Address:	3617B Cincinnati Ave, Rocklin, CA 95765	Same as Submitter <input type="checkbox"/>
Country:	United States	Same as Submitter <input type="checkbox"/>

A brief description of each crash test and its result:

Required Test Number	Narrative Description	Evaluation Results
3-70 (1100C)		Non-Critical, not conducted

Required Test Number	Narrative Description	Evaluation Results
3-71 (1100C)	<p>Test of Plasticade SS300A Sign Stand device with a MASH specified 1100C test vehicle. The test was run on 12/15/15. The curb mass of the vehicle was 1128.0 kg and the final test inertial mass was 1105.5 kg. Impact speeds were 100.0 km/h and 98.1 km/h for the 0 and 90 degree sign stands, respectively. For the 0 degree test, the 1100C vehicle's front bumper impacted the vertical member of the sign stand just above the base assembly. The upright immediately yielded around the front bumper as the sign draped over the bumper and hood. The top of the sign, including the vertical fiberglass support, contacted the bottom of the windshield and caused some moderate cracking without any deformation. The sign then fully released from the stand. The stand passed underneath the vehicle, was freed, and exited out the rear. The sign ended up in front of the vehicle as it braked to a stop. For the 90 degree test, the 1100C vehicle's front bumper impacted the vertical member of the sign stand as the front of the hood impacted the lower section of the rollup sign. The upright immediately yielded around the front bumper as the sign detached from the fiberglass supports and draped over the bumper and hood. The supports detached from the stand; the vehicle rolled over the stand and the stand exited the rear as the vehicle braked to a stop. The test vehicle sustained negligible damage to the bumper and hood; there was no damage to the undercarriage of the test vehicle. There was moderate cracking to the windshield but no liner damage and no deformation. There was no penetration or deformation of the occupant compartment.</p>	PASS

3-72 (2270P)	<p>The purpose of this test was to analyze the Plasticade SS300 Sign Stand device's interaction with a MASH specified 2270P test vehicle and report the interactions. The test was run on 11/14/16 using a black 2010 Dodge Ram pickup. The curb mass of the vehicle was 2192.0 kg and the final test inertial mass was 2272.0 kg. Impact speeds were 99.5 km/h and 97.5 km/h for the 0 and 90 degree sign stands, respectively. For the 0 degree test, the 2270P vehicle's front bumper impacted the vertical member of the sign stand just above the base assembly. The upright immediately yielded around the front bumper as the sign detached from the fiberglass supports and draped over the bumper and hood. The fiberglass supports remained attached to the stand as it passed under the vehicle. The stand exited from the rear of the vehicle and the sign fell off the vehicle when it braked to a stop. For the 90 degree test, the 2270P vehicle's front bumper impacted the vertical member of the sign stand as the front of the hood impacted the lower section of the rollup sign. The upright immediately yielded around the front bumper as the sign detached from the fiberglass supports and draped over the bumper and hood momentarily and then quickly elevated above the vehicle. The stand stayed under the vehicle until the vehicle braked to a stop. The test vehicle sustained minor damage to the bumper, grill, and hood; there was no damage to the undercarriage of the test vehicle. There was no direct contact with the windshield. There was no penetration or deformation of the occupant compartment. The Plasticade SS300/SS300A was judged by E-TECH to have successfully met MASH evaluation criteria for Test Level 3 under the criteria for work zone traffic control devices.</p>	PASS
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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:	E-Tech Testing Services, Inc.	
Laboratory Signature:	Paul Kruse <small>Digitally signed by Paul Kruse DN: cn=Paul Kruse, o=Trinity Highway, ou=E-TECH Testing Services, email=paul.kruse@etechtesting.com, c=US Date: 2017.04.06 13:19:16 -0700 Adobe Acrobat DC version: 2015.023.20070</small>	
Address:	3617B Cincinnati Ave, Rocklin, CA 95765	Same as Submitter <input type="checkbox"/>
Country:	United States	Same as Submitter <input type="checkbox"/>
Accreditation Certificate Number and Dates of current Accreditation period :	A2LA Certificate #989.01, November 20, 2015 thru November 30, 2017	

Submitter Signature*: Henry A. Ross

Digitally signed by Henry A. Ross
DN: cn=Henry A. Ross, o=Plasticade, ou,
email=hross@plasticade.com, c=US
Date: 2017.04.06 15:30:50 -0500

Submit Form

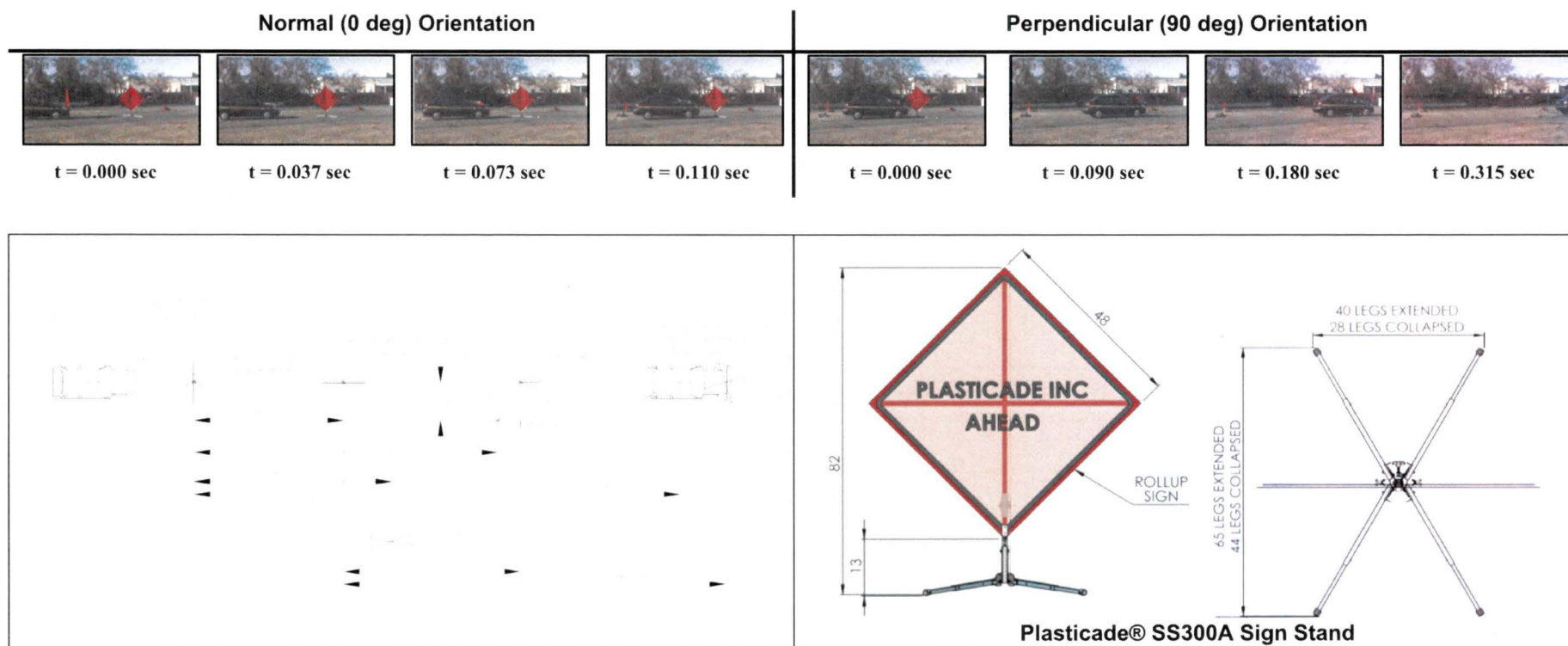
ATTACHMENTS

Attach to this form:

- 1) Additional disclosures of related financial interest as indicated above.
- 2) A copy of the full test report, video, and a Test Data Summary Sheet for each test conducted in support of this request.
- 3) 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 relevant to understanding the dimensions and performance of the device should also be submitted to facilitate our review.

FHWA Official Business Only:

Eligibility Letter		
Number	Date	Key Words



General Information

Test Agency E-TECH Testing Services
Test Designation MASH Test 3-71
Test No. 76-0455-001
Date 12/15/2015

Test Article

Type Plasticade
Stand with Rigid Base and
Aluminum Legs (SS300A)
Work-Zone Traffic Control Device
Dimensions 2.08 m OA Height x 173 cm Wide
Installation Details Industry Standard 48"x48" Rollup Sign
330 mm Sign Height (Bottom of Sign to Grade)
Material and Key 7.7 kg Stand, Aluminum Legs and Upright, Steel
Elements
Base Assembly
2.3 kg Rollup Sign
Foundation Type Asphalt, clean and dry
and Condition

Test Vehicle

Type Production Model
Designation 1100C
Model 2009 Kia Rio
Curb 1128.0 kg
Test Inertial 1105.5 kg
Dummy N/A
Gross Static 1105.5 kg

Impact Conditions

Speed (Normal Orientation) 100.0 kph
Speed (Perpendicular Orientation) 98.1 kph
Impact Severity (Normal Orientation) 426.5 kJ
Impact Severity (Perp. Orientation) 410.5 kJ

Exit Conditions

Speed (Normal Orientation) 98.1 kph
Speed (Perpendicular Orientation) 97.0 kph
Angle (deg) 0

Vehicle Damage

Exterior
VDS FC-0 (negligible)
CDC 12FCLN0 (negligible)
Windshield Damage Moderate cracking, no deformation
Interior
Maximum Deformation Negligible

Figure 3 - Summary of Results – Plasticade® SS300A Sign Stand Test 76-0455-001



Normal (0 deg) Orientation



t = 0.000 sec

t = 0.056 sec

t = 0.111 sec

t = 0.167 sec

Perpendicular (90 deg) Orientation

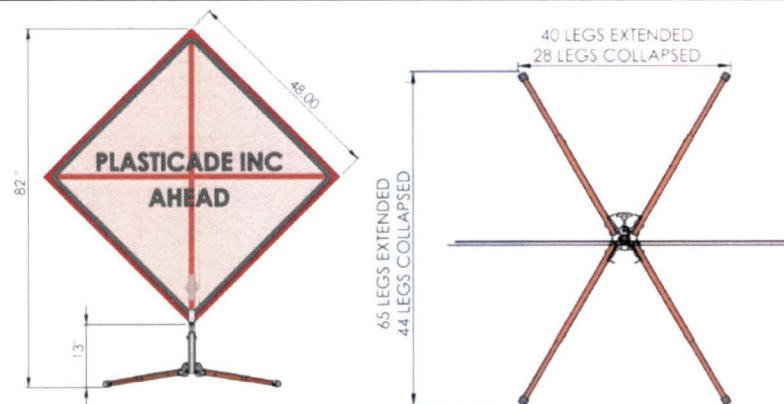
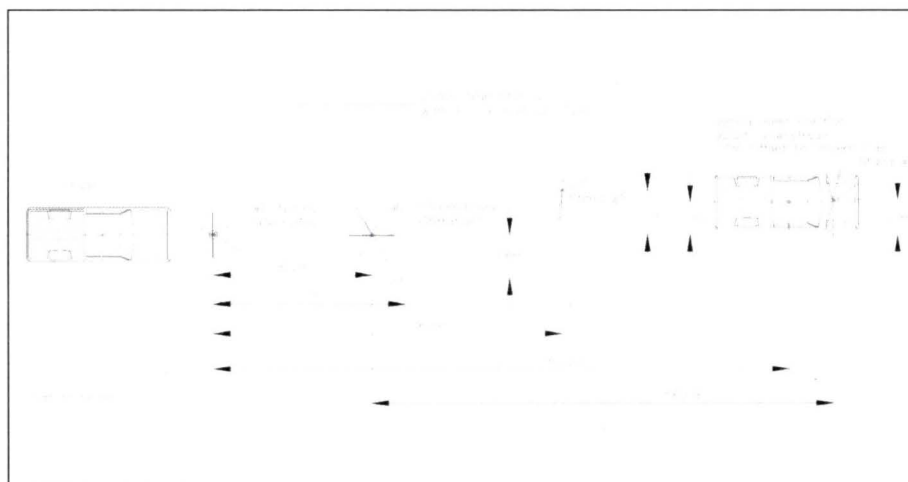


t = 0.000 sec

t = 0.105 sec

t = 0.210 sec

t = 0.367 sec



Plasticade® SS300 Sign Stand

General Information

Test Agency E-TECH Testing Services
Test Designation MASH Test 3-72
Test No. 76-0455-002
Date 11/14/2016

Test Article

Type Plasticade
Stand with Rigid Base and
Steel Legs (SS300)
Work-Zone Traffic Control Device
Dimensions 2.08 m OA Height x 173 cm Wide
Installation Details Industry Standard 48"x48" Rollup Sign
330 mm Sign Height (Bottom of Sign to Grade)
Material and Key 8.5 kg Stand, Steel Legs and Upright, Steel
Elements
Base Assembly
2.3 kg Rollup Sign
Foundation Type Asphalt, clean and dry
and Condition

Test Vehicle

Type Production Model
Designation 2270P
Model 2010 Dodge Ram
Curb 2192.0 kg
Test Inertial 2272.0 kg
Dummy N/A
Gross Static 2272.0 kg

Impact Conditions

Speed (Normal Orientation) 99.5 kph
Speed (Perpendicular Orientation) 97.5 kph
Impact Severity (Normal Orientation) 867.1 kJ
Impact Severity (Perp. Orientation) 832.7 kJ

Exit Conditions

Speed (Normal Orientation) 97.5 kph
Speed (Perpendicular Orientation) 95.5 kph
Angle (deg) 0

Vehicle Damage

Exterior
VDS FC-1
CDC 12FCLN1
Notable Deformation None
Interior
Maximum Deformation Negligible

Figure 7 - Summary of Results – Plasticade® SS300 Sign Stand Test 76-0455-002



APPENDICES

Appendix A - Details of Test Article

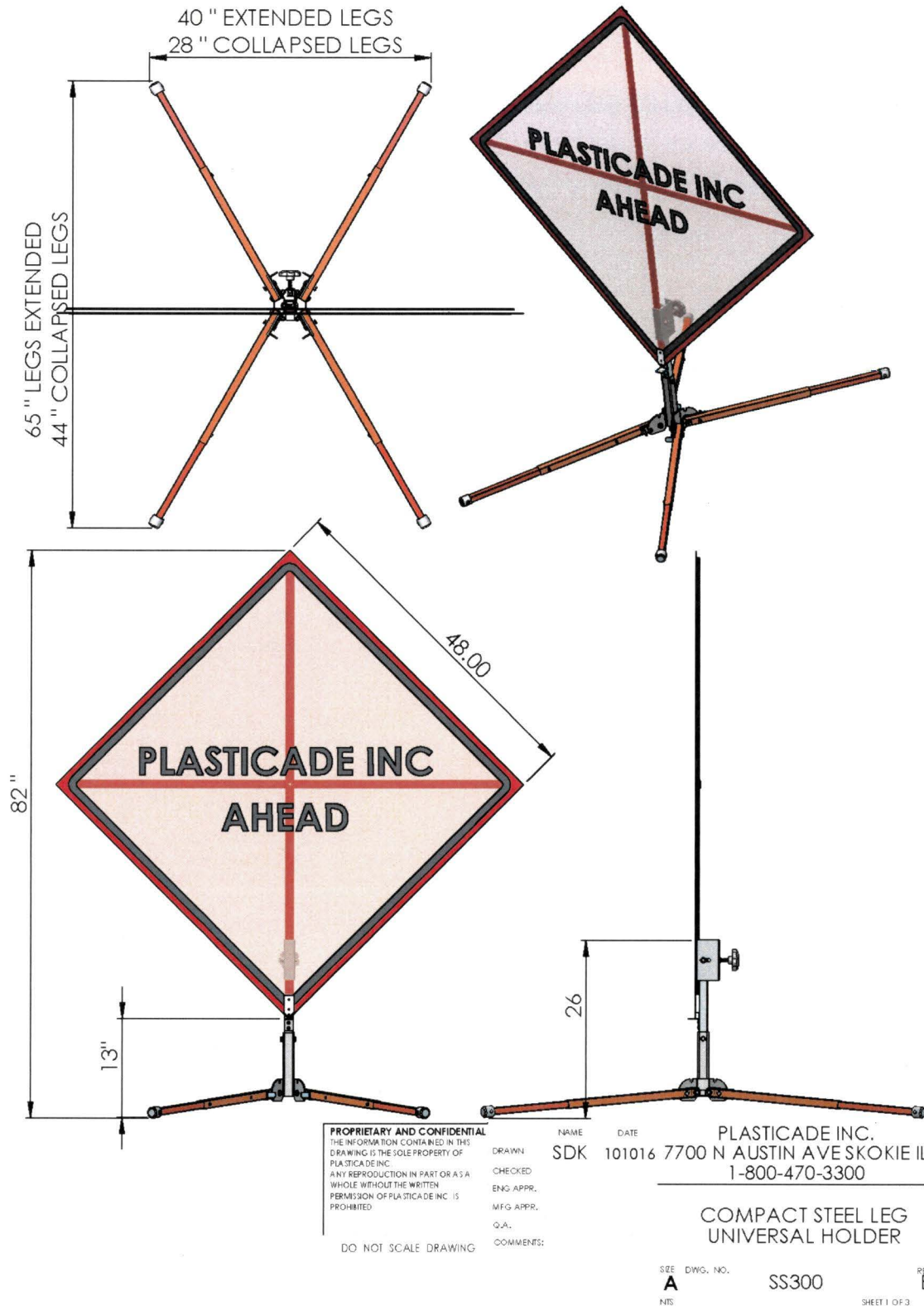
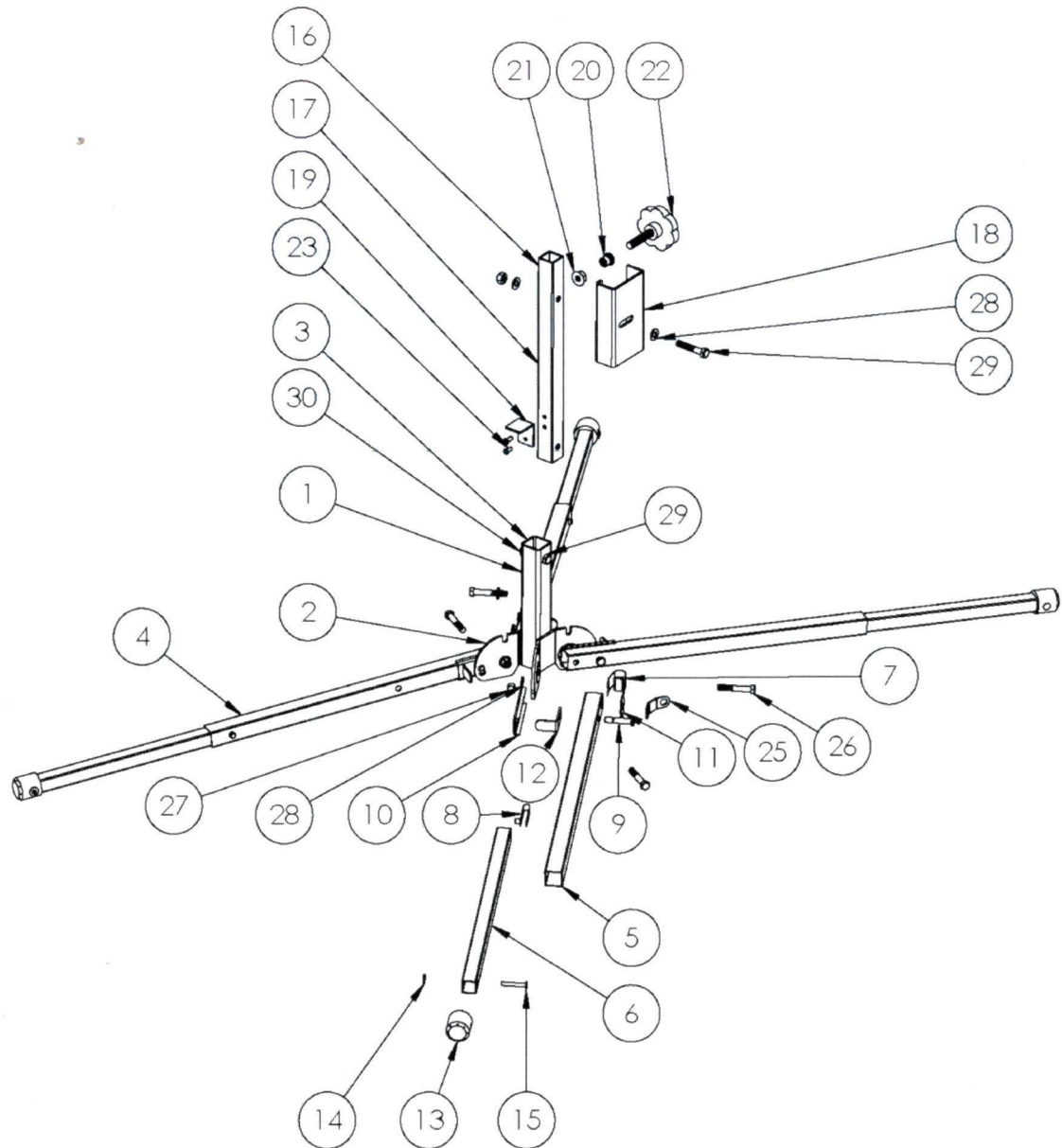


Illustration 1 – Plasticade® SS300 Technical Drawing (Sheet 1 of 3)



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1-800-470-3300

COMPACT STEEL LEG
UNIVERSAL HOLDER

SIZE DWG. NO.

A

SS300

REV

E

SCALE: 1:15

SHEET 2 OF 3

Illustration 2 – Plasticade® SS300 Technical Drawing (Sheet 2 of 3)



SS300	30000	30000 STAND ASSEMBLY	RSM30000-161010			
ITEM	PART NUMBER	DESCRIPTION	DRAWING NUMBER	MATERIAL	FINISH	Quantity
1	BACNS-V2	BAHS BASE ASSEMBLY	RSMB100-151101			1
2	BAS18	COMPACT BASE SIDE PLATE	RSMB102-150211	STEEL Q235	POWDER COAT	2
3	BACNS-40-235	COMPACT STEEL STAND BASE TUBE	RSMB103-151101	STEEL Q215	POWDER COAT	1
4	30000 CSLA	COMPACT STEEL LEG ASSEMBLY	RSMLCSS-161010			4
5	SLR-30-560-V2	STEEL COMPACT STAND LEG LONG-ORANGE	RSML125-140728	STEEL Q215	POWDER COAT	1
6	SLR-25-480-V2	STEEL COMPACT STAND SHORT LEG - ORANGE	RSML120-140517	STEEL Q215	POWDER COAT	1
7	LLA-FLAT-SPRING	LATCH SPRING-LEG	RSML172-160823	STAINLESS 302	STAINLESS	1
8	LSB-10	LEG SPRING BUTTON 10MM	RSML173-140331	STEEL	ZINC PLATE	1
9	LLA-PIN	LEVER PIN	RSML162-140730	STEEL Q235	DICHROMATE	1
10	LLA-32-V2	LEG LEVER PIN COVER LEGS	RSML166-140331	STEEL Q235	ZINC PLATE	1
11	LLA-WASHER	WASHER .41 I.D. X 1.5 O.D X .065	SEE WASHER SHEET	STEEL	ZINC PLATE	1
12	LLA-LEVER	LEG LEVER	RSML163-140817	STEEL Q235	ZINC PLATE	1
13	RF-25	25MM RUBBER FOOT	RSML100-140331	RUBBER	RUBBER	1
14	LLA-FOOT WASHER	WASHER .28 I.D. X .63 O.D. X .07	WASHER SHEET	STEEL	ZINC PLATE	1
15	RIVET-RF-42	RIVET STEEL ZINC 42MM	RIVET MASTER SHEET	STEEL	ZINC PLATE	1
16	SA-URSH	UNIVERSAL ROLL UP SIGN HOLDER	RSMA300-151130			1
17	SA-URSH-01V5	SA-URSH-01 TUBE 32MM X 390MM X 2.5 WALL	RSMA307-151130	AL 6063 T5	ALUMINUM	1
18	SA-URSH-02V3	SA-URSH-02V3 CLAMP J-PLATE	RSMA302-150730	STEEL Q235	ZINC PLATE	1
19	SA-URSH-03V1	SA-URSH-03V1 SUPPORT BRACKET	RSMA303-150730	STEEL Q235	ZINC PLATE	1
20	SA-URSH-04	SA-URSH-04 RIV NUT	RSMA304-150527	STEEL	ZINC PLATE	1
21	SA-URSH-05	SA-URSH-05 FLANGE NUT 12 X 1.75 MM THREAD	RSMA305-140811	STEEL	ZINC PLATE	1
22	SA-URSH-06	SA-URSH-06 KNOB BOLT	RSMA306-150527	PLASTIC/STEEL	ZINC PLATE	1
23	RIVET-POP 6MM	RIVET FOR SUPPORT BRACKET	SEE RIVET MASTER	STEEL	ZINC PLATE	2
24	HARDWARE					
25	LC-3032V2	COMPACT BASE LEG CROSSOVER BRACKET	RSML140-140331	STEEL Q235	ZINC PLATE	2
26	LLA-BOLT	BOLT HEX CAP 3/8-16 X 2-1/4	BOLT/NUT SHEET	STEEL GRADE 5	ZINC PLATE	4
27	LLA-NLN	NUT HEX NYLON LOCK 3/8-16	BOLT/NUT SHEET	STEEL	ZINC PLATE	4
28	LLA-WASHER	WASHER .410 ID 1.00 OD X .07	WASHER SHEET	STEEL	ZINC PLATE	6
29	CSM-BOLT	BOLT HEX CAP 10MM X 55MM X 1.5 PITCH	BOLT/NUT SHEET	STEEL GRADE 5	ZINC PLATE	2
30	CSM-NUT-NYLON	NUT HEX NYLON LOCK 10MM X 1.5 PITCH	BOLT/NUT SHEET	STEEL	ZINC PLATE	2

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COMPACT STEEL LEG
UNIVERSAL HOLDER

SIZE DWG. NO.
A
NTS

SS300

REV.
E
SHEET 3 OF 3

Illustration 3 – Plasticade® SS300 Technical Drawing (Sheet 3 of 3)

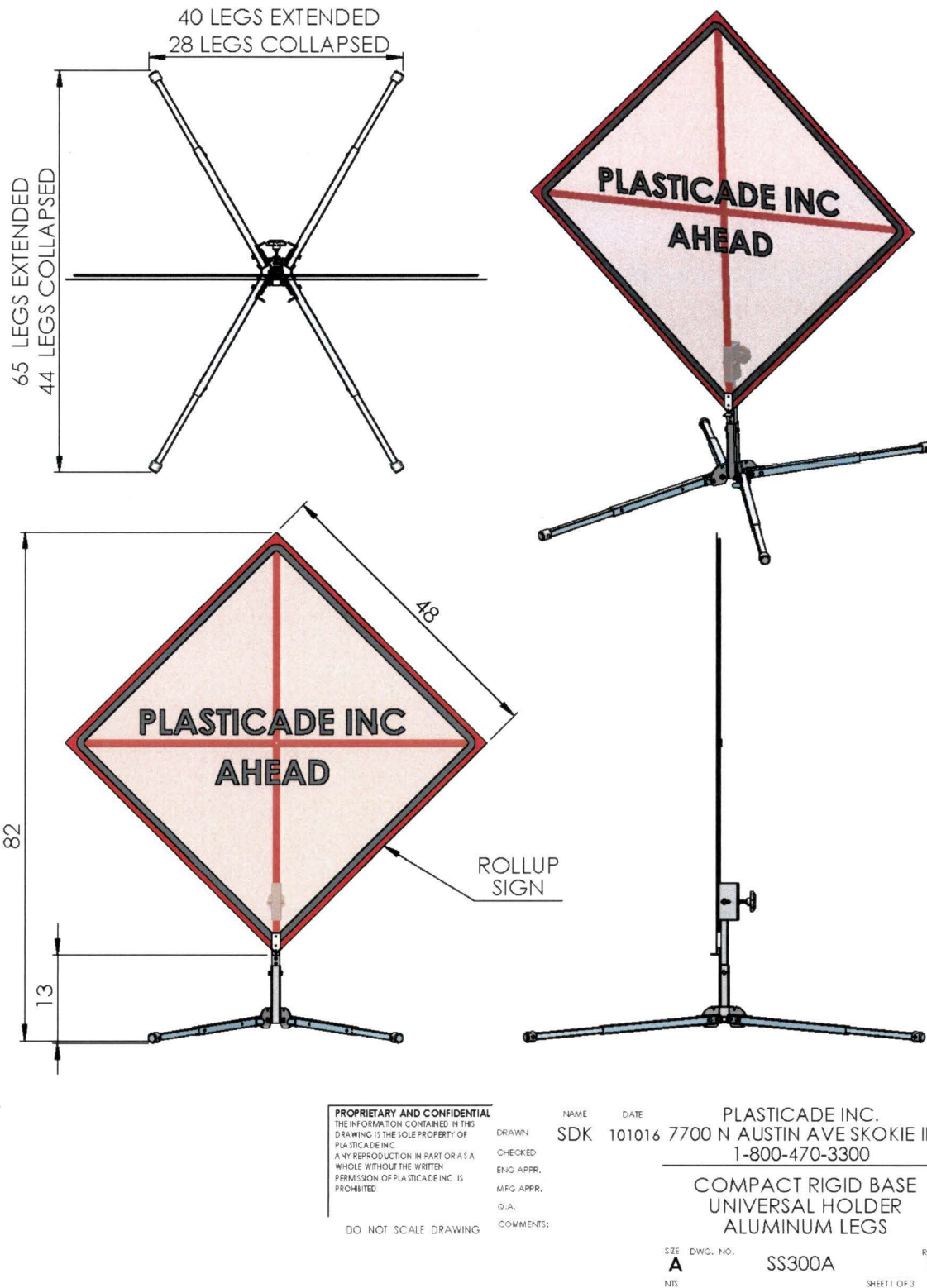
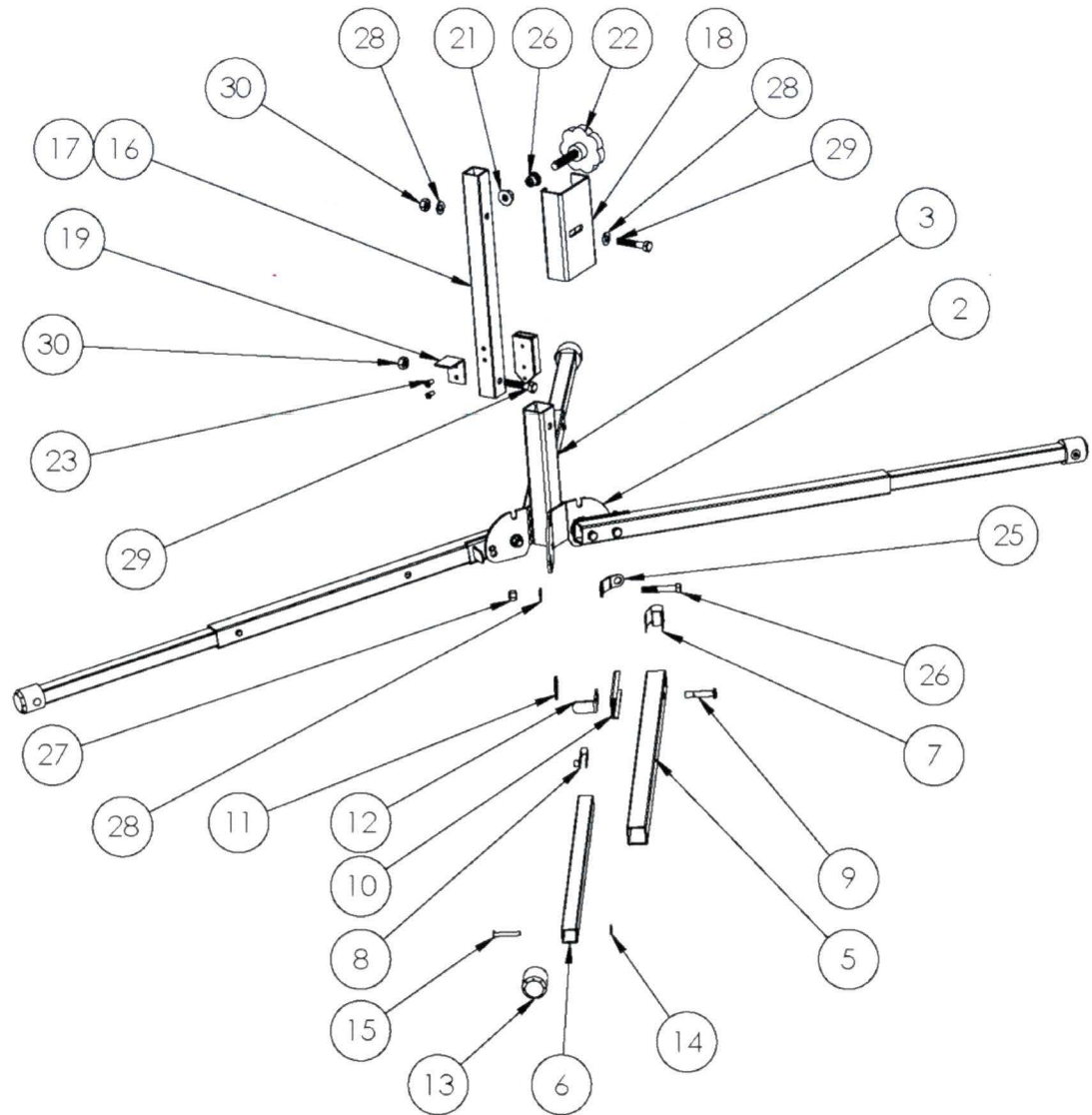


Illustration 4 – Plasticade® SS300A Technical Drawing (Sheet 1 of 3)



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1-800-470-3300

COMPACT RIGID BASE
UNIVERSAL HOLDER
ALUMINUM LEGS

SIZE: DWG. NO.

A

SS300A

REV.

E

SCALE: 1:50

SHEET 2 OF 3

Illustration 5 – Plasticade® SS300A Technical Drawing (Sheet 2 of 3)



SS300A	30000A	30000A STAND ASSEMBLY	RSM30000A-161010			
ITEM	PART NUMBER	DESCRIPTION	DRAWING NUMBER	MATERIAL	FINISH	Quantity
1	BACNS-V3	BAHS BASE ASSEMBLY	RSMB100-151101			1
2	BAS18	COMPACT BASE SIDE PLATE	RSMB102-150211	STEEL Q235	POWDER COAT	2
3	45mm OD square tube	45mm square tube X 2.5 wall X 9.25 Long	RSMB103-151101	STEEL Q215	POWDER COAT	1
4	30000 CSLA	COMPACT ALUMINUM LEG ASSEMBLY	RSMLCSA-160823			4
5	ALR-32-560-V2	COMPACT STAND LEG LONG-ALUMINUM	RSML152-140728	AL 6063 T5	ALUMINUM	1
6	ALR-25-480-V2	COMPACT STAND SHORT LEG - ALUMINUM	RSML150-140517	AL 6063 T5	ALUMINUM	1
7	LLA-SPRING	LEG LATCH SPRING	RSML172-160823	STAINLESS 302	STAINLESS	1
8	LSB-10	LEG SPRING BUTTON 10MM	RSML173-140331	STEEL	ZINC PLATE	1
9	LLA-PIN	LEVER PIN	RSML162-140730	STEEL Q235	ZINC PLATE	1
10	LLA-32-V2	LEG LEVER PIN COVER ALUM LEGS	RSML166-140331	STEEL Q235	ZINC PLATE	1
11	LLA-WASHER	WASHER .41 I.D. 1.5 O.D X .065	SEE WASHER SHEET	STEEL	ZINC PLATE	1
12	LLA-LEVER	LEG LEVER	RSML163-140817	STEEL Q235	ZINC PLATE	1
13	RF-25	25MM RUBBER FOOT	RSML100-140331	RUBBER	RUBBER	1
14	LLA-FOOT WASHER	WASHER .28 I.D. X .63 O.D. X .07	WASHER SHEET	STEEL	ZINC PLATE	1
15	RIVET-RF-42	RIVET STEEL ZINC 42MM	RIVET MASTER SHEET	STEEL	ZINC PLATE	1
16	SA-URSH	UNIVERSAL ROLL UP SIGN HOLDER	RSMA300-151130			1
17	SA-URSH-01V5	SA-URSH-01 TUBE 32MM X 390MM X 2.5 WALL	RSMA307-151130	AL 6363 T5	ALUMINUM	1
18	SA-URSH-02V3	SA-URSH-02 CLAMP J-PLATE	RSMA302-150730	STEEL Q235	ZINC PLATE	1
19	SA-URSH-03V1	SA-URSH-03 SUPPORT BRACKET	RSMA303-150730	STEEL Q235	ZINC PLATE	1
20	SA-URSH-04	SA-URSH-04 RIV NUT	RSMA304-150527	STEEL	ZINC PLATE	1
21	SA-URSH-05	SA-URSH-05 FLANGE NUT 12 X 1.75 MM THREAD	RSMA305-140811	STEEL	ZINC PLATE	1
22	SA-URSH-06	SA-URSH-06 KNOB BOLT	RSMA306-150527	PLASTIC/STEEL	ZINC PLATE	1
23	RIVET-POP 6MM	RIVET FOR SUPPORT BRACKET	SEE RIVET MASTER	STEEL	ZINC PLATE	2
24	HARDWARE					
25	LC-3032V2	COMPACT BASE LEG CROSSOVER BRACKET	RSML140-140331	STEEL Q235	ZINC PLATE	2
26	LLA-BOLT	BOLT HEX CAP 3/8-16 X 2-1/4	BOLT/NUT SHEET	STEEL GRADE 5	ZINC PLATE	4
27	LLA-NLN	NUT HEX NYLON LOCK 3/8-16	BOLT/NUT SHEET	STEEL	ZINC PLATE	4
28	LLA-WASHER	WASHER .410 ID 1.00 OD X .07	WASHER SHEET	STEEL	ZINC PLATE	6
29	CSM-BOLT	BOLT HEX CAP 10M X 1.50 X 55MM	BOLT/NUT SHEET	STEEL GRADE 5	ZINC PLATE	2
30	CSM-BOLT	NUT NYLON LOCK 10M X 1.5	BOLT/NUT SHEET	STEEL	ZINC PLATE	2

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UNIVERSAL HOLDER
ALUMINUM LEGS

SIZE DWG. NO.
A
NTS

SS300A

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SHEET 3 OF 3

Illustration 6 – Plasticade® SS300A Technical Drawing (Sheet 3 of 3)