



## **ANSI/SPRI ES-1 PERFORMANCE TEST REPORT**

Rendered to:

**SOUTHERN ALUMINUM FINISHING COMPANY, INC.**

For:

***Press-Loc®* Aluminum Edge Flashing and Coping**

**Report No.: D6438.01-119-16**

**Report Date: 07/11/14**

**Test Record Retention Date: 05/09/18**

**Revision 1: 10/01/14**



## **ANSI/SPRI ES-1 PERFORMANCE TEST REPORT**

Rendered to:

SOUTHERN ALUMINUM FINISHING COMPANY, INC.  
8370 Highway 78  
Villa Rica, Georgia 30180

Report No.: D6438.01-119-16  
Test Dates: 05/05/14  
Through: 05/09/14  
Report Date: 07/11/14  
Test Record Retention Date: 05/09/18  
Revision 1: 10/01/14

### **1.0 General Information**

#### **1.1 Product**

*Press-Loc®* Aluminum Edge Flashing and Coping

#### **1.2 Project Summary**

Architectural Testing was contracted by Southern Aluminum Finishing Company, Inc. to perform ANSI/SPRI Test RE-2, and RE-3 on formed aluminum edge flashing and coping materials in accordance with ANSI/SPRI ES-1 2003.

#### **1.3 Qualifications**

Architectural Testing in York, Pennsylvania has demonstrated compliance with ANSI/ISO/IEC Standard 17025 and is consequently accredited as a Testing Laboratory (TL-144) by International Accreditation Service, Inc.

#### **1.4 Witnessing**

Mr. Corey Faciane from Southern Aluminum Finishing Company, Inc. was present from 05/05/14 to 05/09/14 to demonstrate proper installation of the edge flashing and coping, as well as for the testing conducted and reported herein.

#### **1.5 Conditions of Testing**

All testing reported herein was conducted in a laboratory set to maintain temperature in the range of  $68 \pm 4^{\circ}\text{F}$  and humidity in the range of  $50 \pm 5\%$  RH.

## **2.0 ANSI/SPRI Test RE-2, Pull-Off Test for Edge Flashings**

### **2.1 Specimen Description**

10 ft long sections of 6 in and 8 in wide by 0.040 in thick, mill formed aluminum flashing and 10 ft long by nominal 5-5/8 in wide by 0.063 in thick and 10 ft long by nominal 7-5/8 in wide by 0.090 in thick aluminum cleat were attached to roof edge mock-ups constructed of Southern White Pine.

Prior to assembly, the top face of the flashing was drilled and fitted with ten 5/16 in eyebolts, fender washers (one side, inside face only) and hex nuts (one each side), six inches from the end of the edge flashing and twelve inches on center, on the longitudinal centerline.

The top face of the 6 in cleat was screwed to the edge of a 2x12 Southern White Pine member with a single row of ten #12 x 1-1/2 in (0.156 in minor diameter) hex-head, stainless steel screws 6 in from the end and 12 in on center.

The top face of the 8 in cleat was screwed to the edge of a 2 x 12 Southern White Pine member with two rows of ten #12 x 1-1/2 in (0.156 in minor diameter) hex-head, stainless steel screws 2 in from the bottom and 2-3/4 in from the top, 6 in from the end and 12 in on center.

The flashing was then hooked onto the top bend of the cleat over spring steel clips spaced 24 in apart on center.

See Drawings in Appendix A and Photographs in Appendix B for additional details.

### **2.2 Test Procedure**

Load was applied to the ten eye bolts using equal-length chains, a spreader beam, steel cable and an electric winch. Applied load was measured with an in-line 2000 pound load cell. Center-point deflection of the flashing face was measured with an electronic linear displacement transducer. Load was applied incrementally and held ("Sustained") for a minimum of 60 seconds with intermediate load relaxation periods for specimen deflection to stabilize.

Mode of failure for all 6 in specimens was flashing pull-off from the cleat, while load was increasing.

Mode of failure for all 8 in specimens was flashing pull-off from the lower lip of the cleat, while relaxing load to stabilize deflection.

See photographs in Appendix B for test set-ups.

## 2.3 Test Results

### ANSI/SPRI Test RE-2 Pull-Off Test for 6 in Edge Flashing

Test Date: 05/05/14

Specimen No.	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	1211	1200	240
2	1412	1350	270
3	1437	1400	280
Average:	1353	1316	263

### ANSI/SPRI Test RE-2 Pull-Off Test for 8 in Edge Flashing

Test Date: 05/05/14

Specimen No.	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	1289	1267	190
2	1293	1267	190
3	1219	1200	180
Average:	1267	1245	187

## 3.0 ANSI/SPRI Test RE-3, Pull-Off Test for Copings

### 3.1 Specimen Description

10 ft long sections of 12-1/2 in wide top face by 6 in high front face by 4-1/2 in high back face by 0.040 in thick, mill finished, formed aluminum coping and by 12 in by 12-1/4 in by 0.063 in thick 16 Ga galvanized steel cleat (spaced 60 in on-center) were attached to parapet mock-ups constructed of Southern White Pine.

Prior to assembly, the top and front faces of the coping were drilled and each fitted with ten 5/16 in eyebolts, fender washers (one side, inside face only) and hex nuts (one each side), 6 inches from ends and twelve inches on center, on the longitudinal centerlines.

The top face of the cleat was screwed to the face of a 2x12 Southern Pine member with a two #12 x 1-1/2 in (0.158 in minor diameter) flat-head, Phillips-drive, stainless steel screws in slots provided in the cleat at the bottom edge of the face. The front face of the cleat was screwed to the edge of the 2x12 Southern Pine member with two #12 x 1-1/2 in (0.158 in minor diameter) flat-head, Phillips-drive, stainless steel screws in slots provided in the cleat.

The coping was then hooked onto the front bend of the cleat, wrapped over the top of the mock-up, and its back face hooked onto the back bend of the cleat.

See drawings in Appendix A and Photographs in Appendix B for additional details.

### 3.2 Test Procedure

Load was applied to the ten eye bolts of the coping top surface using equal-length chains, a spreader beam, steel cable and an electric winch. Applied load was measured with an in-line 2000 pound load cell. Center-point deflection of the coping face was measured with an electronic linear displacement transducer.

Load was applied to the ten eye bolts of the coping face surface using equal-length chains, a spreader beam, steel cable and a mechanical winch. Applied load was measured with an in-line 1000 lb ring force gage.

The two loads were applied simultaneously, proportionally and incrementally and held ("Sustained") for a minimum of 60 seconds with intermediate load relaxation periods for specimen deflection to stabilize.

Mode of failure for all specimens was coping deformation under load and subsequent disengagement from the lower lip of the cleat as load was relaxed. See photographs in Appendix A for test set-up.

### 3.3 Test Results

#### ANSI/SPRI Test RE-3 - Pull-Off Test for Coping

Test Dates: 05/07/14 and 05/08/14

Specimen No.	Surface <sup>2</sup> (in)		Max. Sustained Load prior to Failure (lb)		Equivalent Sustained Pressure (psf) <sup>1</sup>	
	Top	Face	Top	Face	Top	Face
1	12.5	6	1962	519	180	110
2		4.5	1821	349	170	104
3			1831	350	170	104
4			1816	343	170	104
Average <sup>3</sup> :			1823	347	170	104

<sup>1</sup> Note that top and face pressures are in the ratio of 1.8 to 1.1 as specified by ANSI/SPRI ES-1 for roof height 60 ft or less

<sup>2</sup> Testing conducted on 6 in face to prove that testing was conducted on the worst case (4.5 in) face creating the most conservative loads

<sup>3</sup> Reported average is calculated from results of testing conducted on the 4.5 in face (specimens No. 2 through 4) and does not include the results from test specimen No. 1.

#### 4.0 Closing Statement

Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

Results obtained are tested values and were secured using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.:

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V. Thomas Mickley, Jr., P.E.  
Senior Project Engineer  
Structural Systems Testing

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Travis A. Hoover  
Program Manager  
Structural Systems Testing

JIS:tah/jas

Attachments (pages): This report is complete only when all attachments listed are included

Appendix A - Drawings (9)

Appendix B - Photographs (6)

### Revision Log

<b><u>Rev. #</u></b>	<b><u>Date</u></b>	<b><u>Page(s)</u></b>	<b><u>Revision(s)</u></b>
0	07/11/14	N/A	Original report issue
1	10/01/14	4	Updated Equivalent Sustained Pressures (Top and Face) in the Test Results table



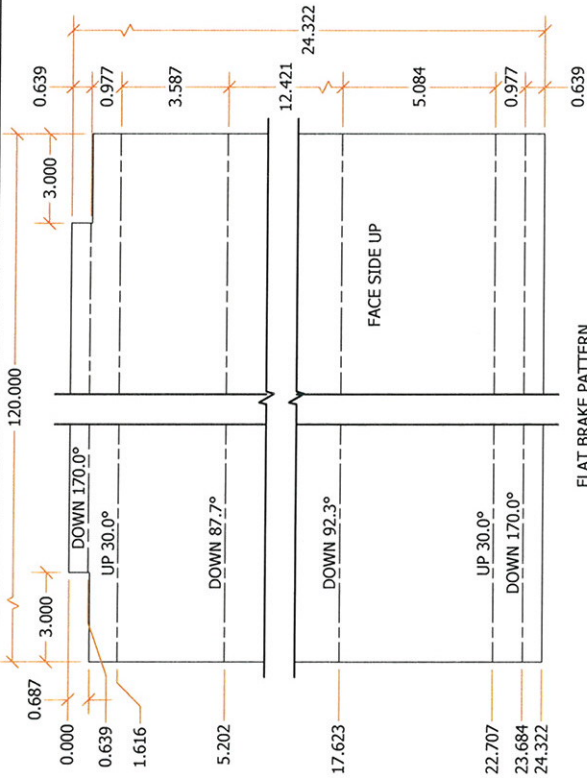
D6438.01-119-16-R1

## **APPENDIX A**

### **Drawings**



\*\*SAF does not warrant these details as suitable for a particular application. Design responsibility for the building remains with others who must review these details for compliance with the overall design.\*\*



Test sample complies with these details.  
Deviations are noted.

Report # D6438.01-119-16  
Date 6/23/14 Tech SJS

ALL LABELS TO BE PLACED ON  
UNFINISHED SIDE OF PROFILE

**SAF Perimeter Systems**  
8270 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173

Item	Value
Material:	Aluminum
Thickness:	0.040

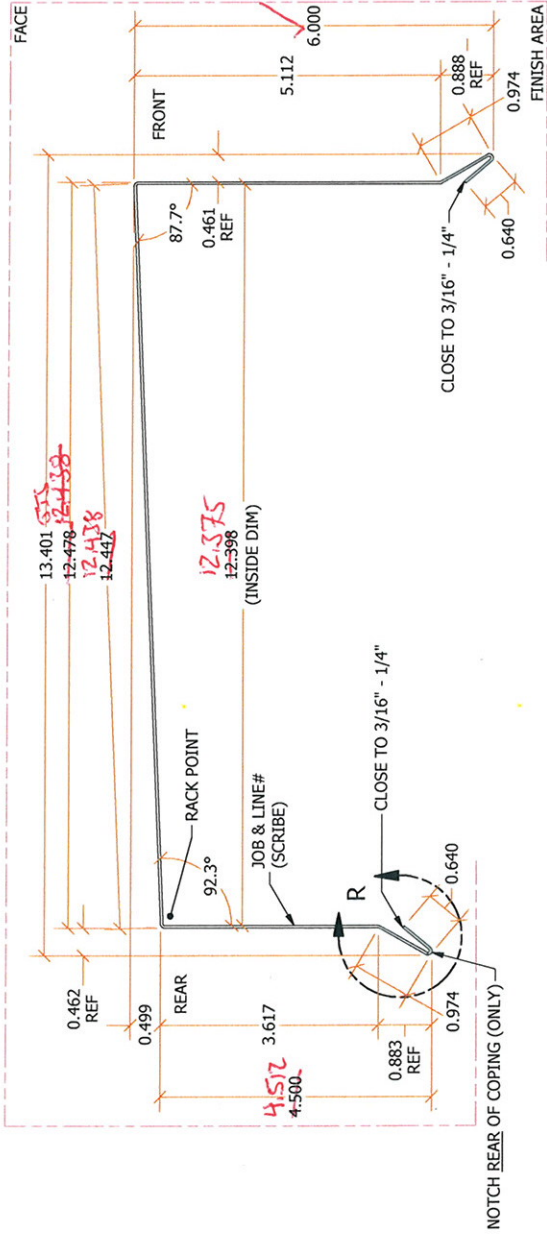
Item	Value
Type:	Mill
Class:	
Code & Color	

Item	Value
Name:	Perimeter System
ID	per27330

Item	Value
Name:	Perimeter System R&D
Job No.:	67413
Proj. ID:	2074

Item	Value
Line:	20
Sub Assy (Y/N):	N
Part Name:	PLC 4.5x12x6
Quantity:	5
Fab Type:	2
Shear Girth:	24.322
Shear Length:	120.000
Date:	4/10/2014
Drawn By:	wec

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED



\\RUSK\Jobs\2074\Production Dwg\67413\67413.dwg



Test sample complies with these details.  
Deviations are noted.

Date 6/23/14 Tech SIS

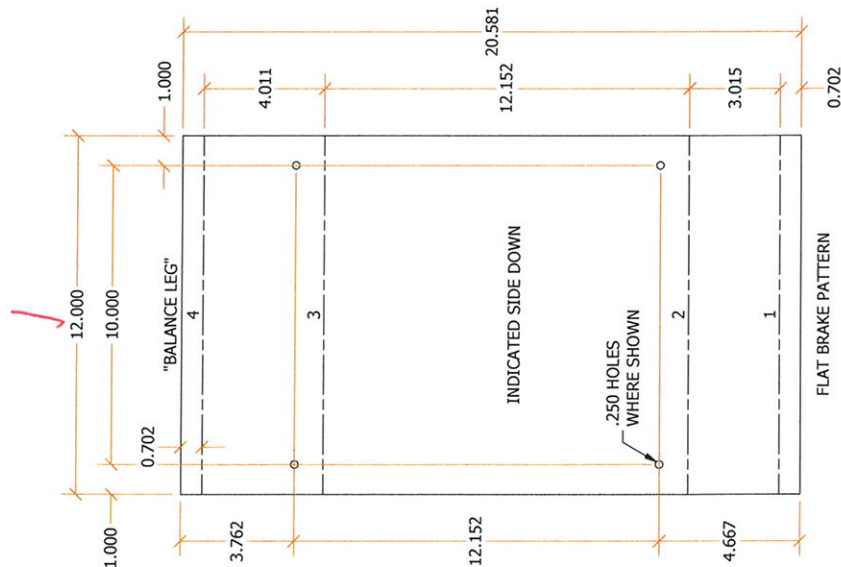
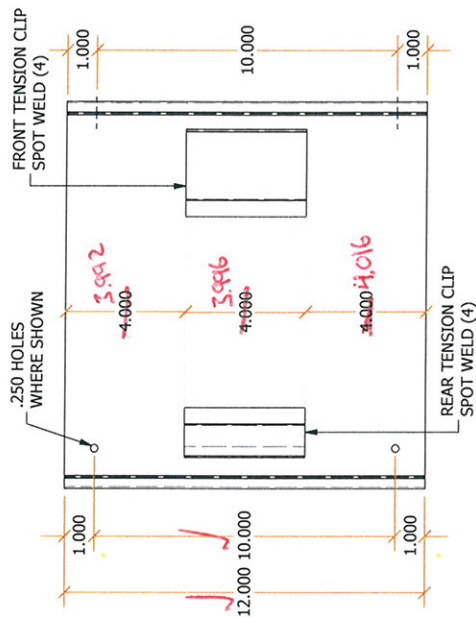
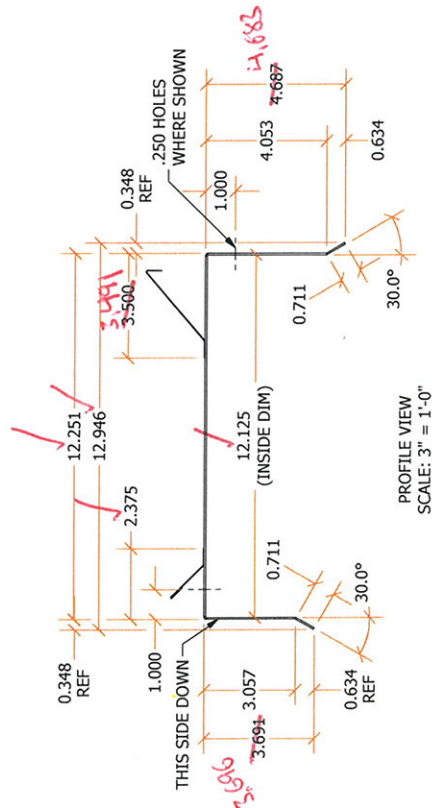


Table			
BEND ID	BEND DIRECTION	BEND ANGLE	BEND RADIUS
4	DOWN	30	.03
3	UP	90	.03
2	UP	90	.03
1	DOWN	30	.03


## ASSEMBLY DRAWING



TOP VIEW  
SCALE: 3" = 1'-0"



PROFILE VIEW  
SCALE: 3" = 1'-0"

 <b>Perimeter Systems</b> 8370 Hwy 78 Villa Rica, GA 30180 Phone: 770-943-1207 Fax: 770-942-4173		<table border="1"> <tr> <th colspan="2">Materials Schedule</th> <th colspan="2">Materials</th> </tr> <tr> <th>Material</th> <th>Item</th> <th>Material</th> <th>Value</th> </tr> <tr> <td>Thickness</td> <td></td> <td>Galv. Steel</td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.063</td> <td><b>16 Ga</b></td> </tr> </table>		Materials Schedule		Materials		Material	Item	Material	Value	Thickness		Galv. Steel				0.063	<b>16 Ga</b>																																
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Date:																																																			
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		Drawn By:	wec																																																

--SAFE does not warrant these details as suitable for a particular application. Design responsibility for the building remains with others who must review these details for compliance with the overall design.--

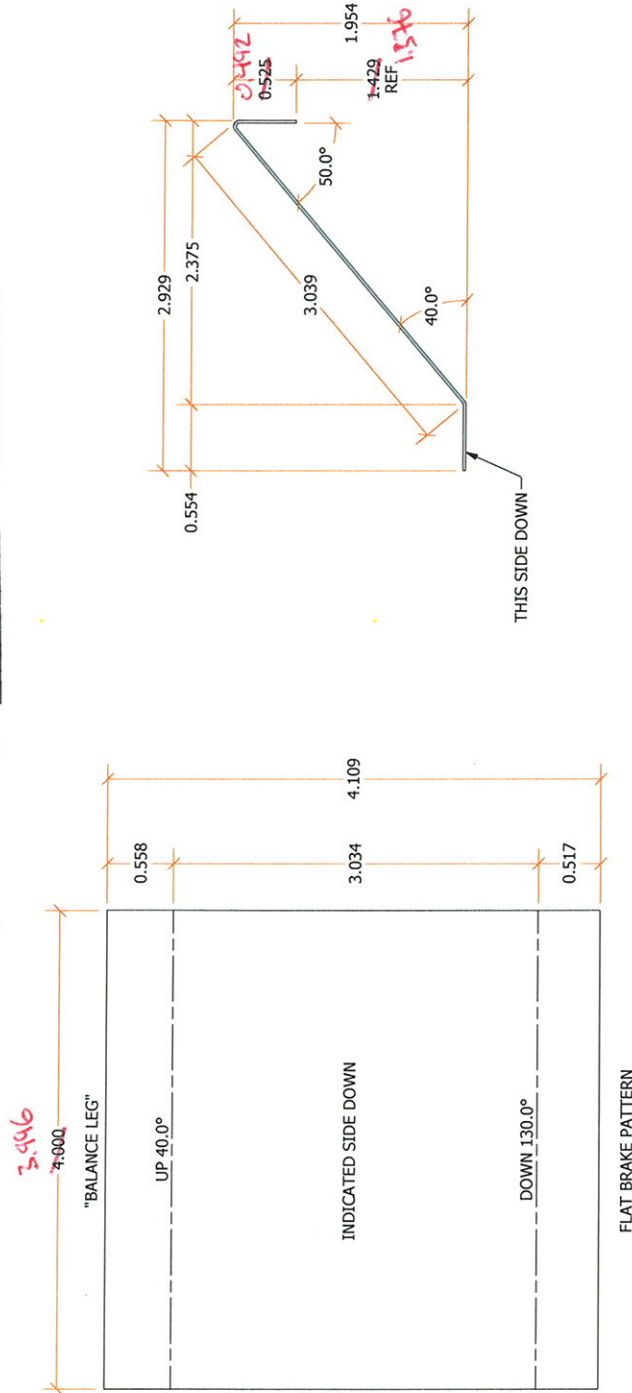
# SUB-ASSY PART# PLCfront



Test sample complies with these details.  
Deviations are noted.

Report # D6438.01-119-16

Date 6/23/14 Tech JIS



**SAFE** Perimeter Systems  
8370 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173

Item	Value
Material: Spring Steel	
Thickness: 0.022	26 GA

Item	Value
Type: Mill	
Class: Code & Color	

Item	Value
Name: Perimeter System	
ID: per27330	

Item	Value
Name: Perimeter System R&D	
Job No.: 67413	
Proj. ID: 2074	

Item	Value
Line: 21~1	
Sub Assy (Y/N): Y	
Part Name: PLCfront	
Quantity: 15	
Fab Type: 15	
Shear Girth: 4.109	
Shear Length: 4.000	
Date: 4/10/2014	
Drawn By: wec	

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED

\\RUSK\Jobs\2074\Production Dwg\67413\67413.dwg

Southern Aluminum Finishing Co., Atlanta, Nashville, Winston, Redding



\*\*SAF does not warrant these details as suitable for a particular application. Design responsibility for the building remains with others who must review these details for compliance with the overall design.\*\*

# SUB-ASSY PART # PLCrear

**SAF** Perimeter Systems

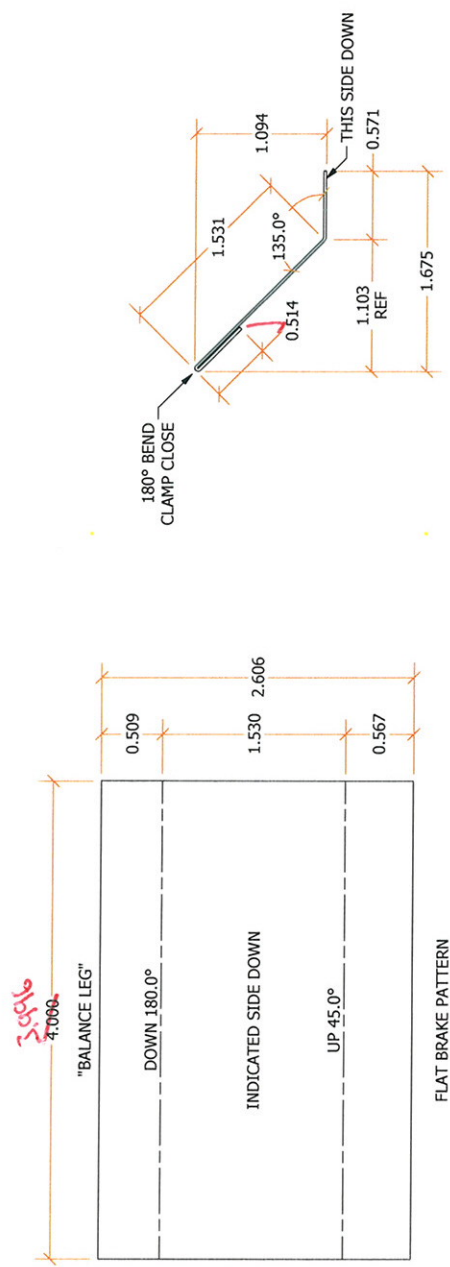
6370 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173



Test sample complies with these details.  
Deviations are noted.

Report # D6438.01-19-16

Date 6/23/14 Tech JIS



FLAT BRAKE PATTERN

Material Schedule	Materials	Item	Value
	Material:	Spring Steel	
	Thickness:	0.022	26 GA

Finish Schedule	Finish	Item	Value
	Type:	Mill	
	Class:	Code & Color	

Customer Info	Customer	Item	Value
	Name:	Perimeter System	
	ID	per27330	

Job Information	Project	Item	Value
	Name:	Perimeter System R&D	
	Job No.:	67413	
	Proj. ID:	2074	

Drawing Information	Part & Drawing Info	Item	Value
	Line:	21~2	
	Sub Assy (Y/N)	Y	
	Part Name:	PLC rear	
	Quantity:	15	
	Fab Type:	15	
	Shear Girth:	2.606	
	Shear Length:	4.000	
	Date:	4/10/2014	
	Drawn By:	wec	

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED

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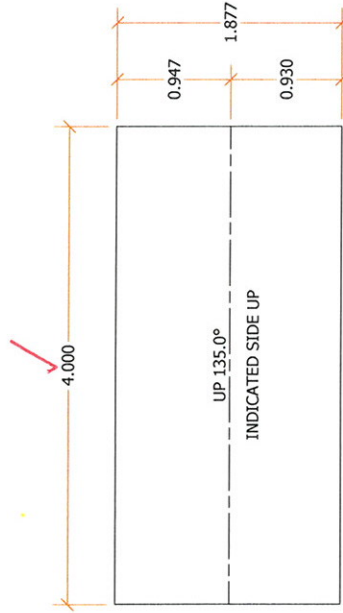
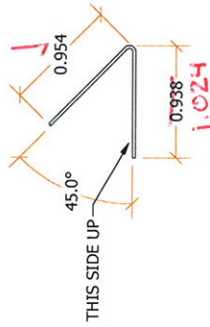


## Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report # D6438.01-119-16

Date 6/23/14 Tech JIS



FLAT BRAKE PATTERN

## PART # PLGSClip

**SAF Perimeter Systems**  
6370 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173

Material Schedule	Materials	Item	Value
	Material:	Spring Steel	
	Thickness	0.022	26 GA
Finish Schedule	Finish	Item	Value
	Type:	Mill	
	Class:		
	Code & Color		
Customer Info	Customer	Item	Value
	Name:	Perimeter System	
	ID	per27330	
Job Information	Project	Item	Value
	Name:	Perimeter System R&D	
	Job No.:	67413	
	Proj. ID:	2074	
Drawing Information	Part & Drawing Info	Item	Value
	Line:	26	
	Sub Assy (Y/N)	N	
	Part Name:	PLGSClip	
	Quantity:	60	
	Fab Type:	15	
	Shear Girth:	1.877	
	Shear Length:	4.000	
	Date:	4/10/2014	
	Drawn By:	wec	

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED

\\RUSK\Jobs\2074\Production Dwg\67413\67413.dwg

Southern Aluminum Finishing Co., Atlanta, Nashville, Winston, Redding

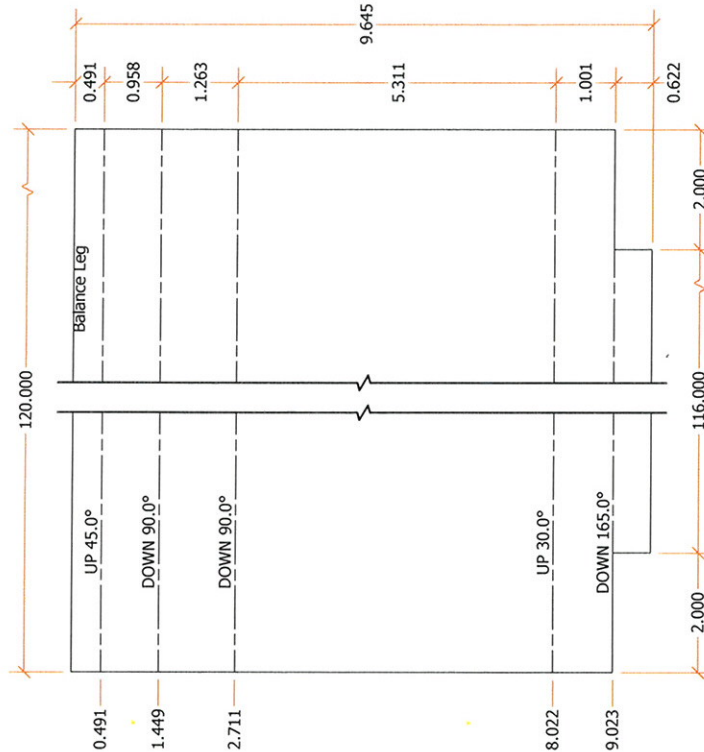
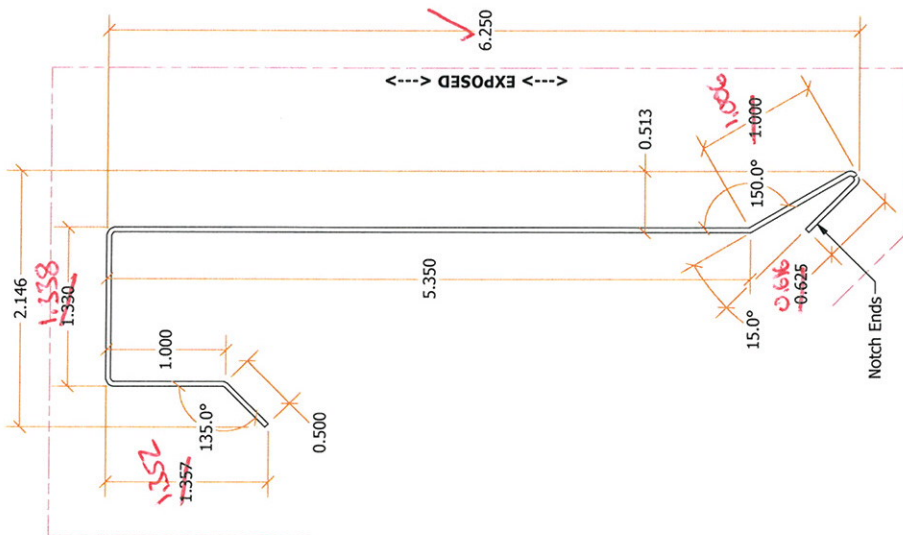


\*\*SAF does not warrant these details as suitable for a particular application. Design responsibility for the building remains with others who must review these details for compliance with the overall design.\*\*

Test sample complies with these details.  
Deviations are noted.

Report # 06438.01-119-16

Date 6/23/14 Tech JIS



FLAT PATTERN  
TAPE UP

**SAF** Perimeter Systems  
6370 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173

Material Schedule	Item	Material	Value
	Thickness	Aluminum	0.040

Finish Schedule	Item	Finish	Value
	Type:	Mill	
	Class:		
	Code & Color		

Customer Info	Item	Customer	Value
	Name:	Perimeter System	
	ID	per27330	

Job Information	Item	Project	Value
	Name:	Perimeter System R&D	
	Job No.:	67413	
	Proj. ID:	2074	

Drawing Information	Item	Part & Drawing Info	Value
	Line:	22	
	Sub Assy (Y/N)	N	
	Part Name:	PLGS 6"	
	Quantity:	5	
	Fab Type:	2	
	Shear Girth:	9.645	
	Shear Length:	120.000	
	Date:	4/10/2014	
	Drawn By:	wec	

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED

\\RUSK\Jobs\2074\Production Dwg\67413\67413.dwg

Southern Aluminum Finishing Co., Atlanta, Nashville, Winston, Redding



# Architectural Testing

~~Test sample complies with these details.~~

Report # D6438.01-119-16

Date 6/23/14 Tech JTS

southern Aluminum Finishing Co., Atlanta, Nashville, Winston, Redding

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\*\*SAF does not warrant these details as suitable for a particular application. Design responsibility for the building remains with others who must review these details for compliance with the overall design. \*\*

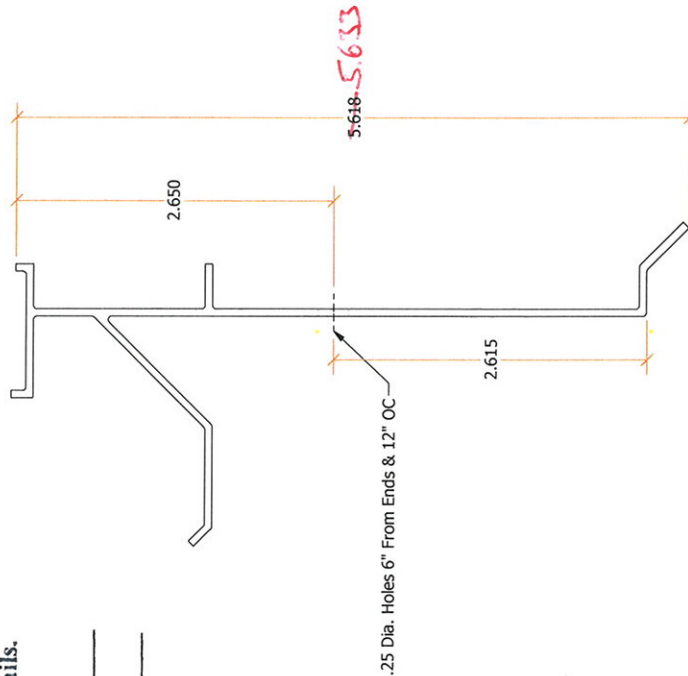
## USE PART # SB6



Test sample complies with these details.  
Deviations are noted.

Report # D6438.01-119-16

Date 6/23/14 Tech JIS



**SAF Perimeter Systems**

8270 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173

Material Schedule	
Item	Value
Material:	Aluminum
Thickness	0.060

Finish Schedule	
Item	Value
Type:	Mill
Class:	
Code & Color	

Customer Info	
Item	Value
Name:	Perimeter System
ID	per27330

Job Information	
Item	Value
Name:	Perimeter System R&D
Job No.:	67413
Proj. ID:	2074

Part & Drawing Info	
Item	Value
Line:	23
Sub Assy (Y/N)	N
Part Name:	6" Secure Bar
Quantity:	5
Fab Type:	15
Shear Girth:	
Shear Length:	120.000
Date:	4/10/2014
Drawn By:	wec

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED

Southern Aluminum Finishing Co., Atlanta, Nashville, Winston, Redding

\\RUSK\Jobs\2074\Production Dwg\67413\67413.dwg



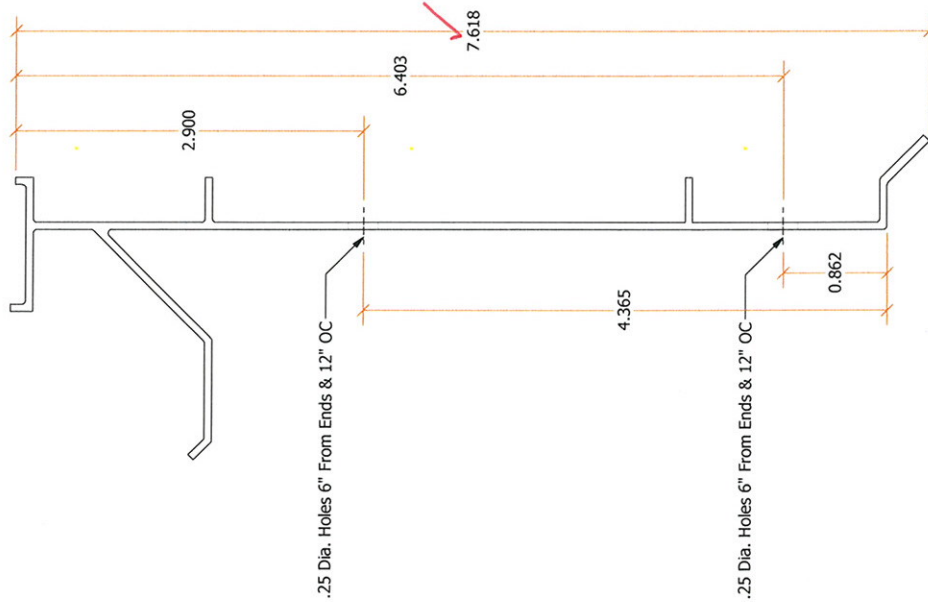
# USE PART # SB8



## Architectural Testing

Test sample complies with these details.  
Deviations are noted.

Report # D8438.01-119-16  
Date 6/23/14 Tech JIS



**SAF Perimeter Systems**

8370 Hwy 78  
Villa Rica, GA 30180  
Phone: 770-942-1207  
Fax: 770-942-4173

Material Schedule	
Item	Value
Material: Aluminum	
Thickness: 0.060	

Finish Schedule	
Item	Value
Type: Mill	
Class: Code & Color	

Customer Info	
Item	Value
Name: Perimeter System	
ID: per27330	

Job Information	
Item	Value
Name: Perimeter System R&D	
Job No.: 67413	
Proj. ID: 2074	

Part & Drawing Info	
Item	Value
Line: 25	
Sub Assy (Y/N): N	
Part Name: 8" Secure Bar	
Quantity: 5	
Fab Type: 15	
Shear Girth: 120.000	
Date: 4/10/2014	
Drawn By: wec	

Drawing Information	
Item	Value
Line: 25	
Sub Assy (Y/N): N	
Part Name: 8" Secure Bar	
Quantity: 5	
Fab Type: 15	
Shear Girth: 120.000	
Date: 4/10/2014	
Drawn By: wec	

ALL ANGLES ARE 90° OTHERWISE NOTED  
RACK AT HOLES OR SLOTS OTHERWISE NOTED



D6438.01-119-16-R1

## **APPENDIX B**

### **Photographs**



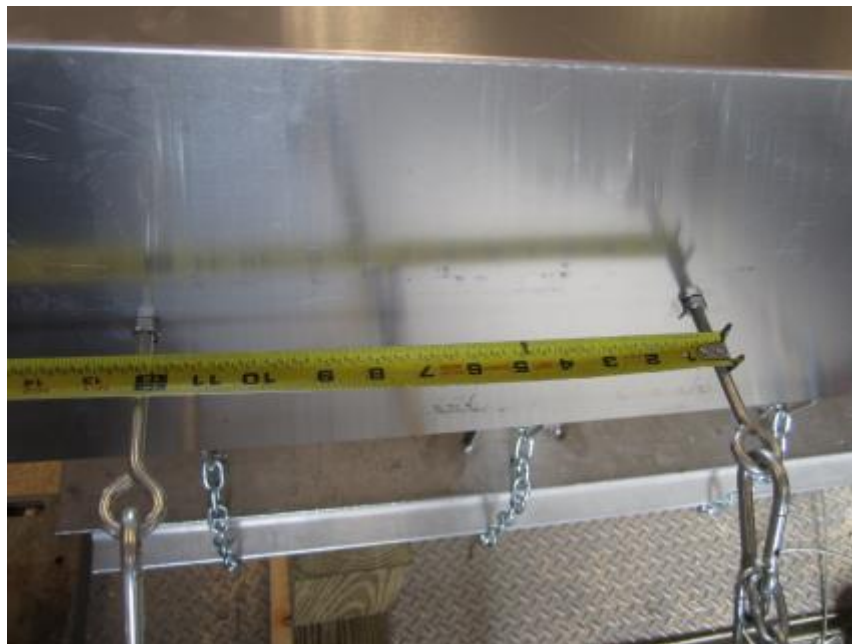
**Photo No. 1**  
**6 in Cleat for ANSI/SPRI Test RE-2**



**Photo No. 2**  
**8 in Cleat for ANSI/SPRI Test RE-2**



**Photo No. 3**  
**ANSI/SPRI Test RE-2, 10 ft Wood Buck, Flashing with Test Eyebolts**



**Photo No. 4**  
**ANSI/SPRI Test RE-2, Test Specimen Top View**



**Photo No. 5**  
**ANSI/SPRI Test RE-2, Flashing Pull-Off Test in Progress**



**Photo No. 6**  
**ANSI/SPRI Test RE-2, Flashing Pull-Off**  
**6 in Typical Failure Mode: Flashing Pull-Off from Cleat**





**Photo No. 7**  
**ANSI/SPRI Test RE-2, Flashing Pull-Off**  
**8 in Typical Failure Mode: Flashing Pull-Off from Cleat**



**Photo No. 8**  
**ANSI/SPRI Test RE-3, Cleat Orientation in Worst Case Scenario**



**Photo No. 9**  
**ANSI/SPRI Test RE-3, Coping Pull-Off Test In Progress; Tested with Face Down**



**Photo No. 10**  
**ANSI/SPRI Test RE-3, Coping Pull-off Test**  
**Typical Failure Mode: Coping Face Lip Pull-Off from Cleat**



**Photo No. 11**

**#10 x 1-1/2 in (0.158 in minor diameter) Flat head, Phillips-drive, Stainless Steel Screw**  
**#10 x 1-3/4 in (0.156 in minor diameter) Hex-head, Stainless Steel Screw**