Intertek | Architectural Testing

ANSI/SPRI ES-1 PERFORMANCE TEST REPORT

Rendered to:

ATAS INTERNATIONAL, INC.

For:

***Rapid-Lok Fascia*, *Edge-Lok Fascia,* and *Continuous Cleat Coping* Edge Metal Systems**

Report No: F1420.01-119-19
Report Date: 12/11/15
Test Record Retention Date: 10/28/19
Revision 1: 02/23/16

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Intertek | Architectural Testing

PERFORMANCE TEST REPORT

Rendered to:

ATAS INTERNATIONAL, INC.
6612 Snowdrift Road
Allentown, Pennsylvania 18106

Report No.:	F1420.01-119-16
Test Dates:	10/05/15
Through:	10/28/15
Report Date:	12/11/15
Test Record Retention Date:	10/28/19
Revision 1:	02/23/16

1.0 General Information

1.1 Product

Rapid-Lok Fascia, *Edge-Lok Fascia,* and *Continuous Cleat Coping* Edge Metal Systems

1.2 Project Summary

Architectural Testing, Inc., an Intertek company ("Intertek-ATI"), was contracted by ATAS International, Inc. to perform ANSI/SPRI Test RE-1, RE-2 and RE-3 on formed steel and aluminum edge flashing and coping materials in accordance with the following:

ANSI/SPRI/FM 4435/ ES-1 2011, *Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems*

1.3 Qualifications

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

1.4 Witnessing

A representative from ATAS International was present to demonstrate proper installation of the edge flashing and coping, and to witness 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 ± 4ºF and humidity in the range of 50 ± 5% RH. All test specimen materials were stored in the laboratory environment indicated for no less than 40 hours prior to testing.

2.0 ANSI/SPRI Test RE-1, Test for Roof Edge Termination of Ballasted or Mechanically Attached Roofing Membrane Systems

2.1 Test Procedure

26 in wide sections of the *Rapid-Lok* and *Edge-Lok 2* fascia were attached to a conventional wood roof edge mock-up utilizing a 0.050 in thick EPDM roofing membrane. The 26 in fascia sections were cut to include three pre-punched holes for fasteners. All fasteners for the *Rapid-Lok* fascia were #10-13 x 1" GP fasteners and for the *Edge-Lok 2* fascia they were 1-1/2 in x 0.135 in ring shank roofing nails. The loose end of the roofing membrane was fixed to the crosshead of a SATEC Unidrive, Model MII 50UD Universal Test Machine (ICN: Y002011) and pulled at an approximate 25° angle from the restrained gravel stop assembly at a speed of 2.00 in per minute. Load was applied until the membrane tore away from the fastener.

2.2 Test Results

ANSI/SPRI Test RE-1, Roof Edge Termination - *Rapid-Lok*
Test Date: 02/10/16

Specimen	Peak Load (lb) [1]
1	338
2	375
3	451
Average:	**388**

ANSI/SPRI Test RE-1, Roof Edge Termination - *Edge-Lok 2*
Test Date: 02/10/16

Specimen	Peak Load (lb) [1]
1	278
2	300
3	287
Average:	**288**

[1] *Peak Load was the highest applied load at the time of failure*

Mode of failure for all specimens was membrane tearing around fastener.

3.0 ANSI/SPRI Test RE-2, Pull-Off Test for Edge Flashings

3.1 Specimen Description

12 ft long sections of:

- 5-1/2 in formed aluminum (0.040 in) *Rapid-Lok Fascia* edge flashing with 20 GA continuous steel cleat
- 5-1/2 in formed steel (24 GA) *Rapid-Lok Fascia* edge flashing with 20 GA continuous steel cleat
- 11-3/4 in formed aluminum (0.040 in) *Edge-Lok 2 Fascia* edge flashing with 24 GA continuous steel cleat
- 11-3/4 in formed steel (24 GA) *Edge-Lok 2 Fascia* edge flashing with 24 GA continuous steel cleat
- 11-3/4 in formed aluminum (0.040 in) *Edge-Lok 3 Fascia* with 22 GA continuous steel cleat
- 11-3/4 in formed steel (24 GA) *Edge-Lok 3 Fascia* edge flashing with 22 GA continuous steel cleat

All fascia profiles were attached to parapet mock-ups constructed SPF dimension lumber for testing.

Prior to assembly, the front face of the *Rapid-Lok Fascia*, *Edge-Lok 2 Fascia* and *Edge-Lok 3 Fascia* was drilled and fitted with twelve 5/16 in eyebolts, fender washers (one each side) and hex nuts (one each side), 12 in on center, on the longitudinal centerline.

The front face of the cleat for the *Rapid-Lok Fascia* was screwed to the face of a 2x10 SPF member with a single row of #10-13 x 1" GP fastener, 12 in on center.

The *Rapid-Lok Fascia* was then hooked onto the top face and bottom of the cleat.

The top of the cleat for the *Edge-Lok 2 Fascia* and *Edge-Lok 3 Fascia* were nailed to the top of a 2x10 SPF member with a single row of 1-1/2 in ring shank nails, 12 in on center. The front face of the cleat was nailed to the edge of the 2x10 SPF member with a single row of 1-1/2 in ring shank nails, 12 in on center.

The *Edge-Lok 2 Fascia* and *Edge-Lok 3 Fascia* were then hooked onto the top bend and bottom 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 twelve 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 specimens was flashing pull-off from the lower lip of the cleat, while load was increasing.

See photographs in Appendix B for test set-up.

3.3 Test Results

The results are reported in the following tables.

ANSI/SPRI Test RE-2 Pull-Off Test for Edge Flashing - Test Dates: 10/26/15 and 10/27/15

***Rapid-Lok Fascia* edge flashing system - 5-1/2 in high by 12 ft long - Continuous Cleat**

Specimen No.	Fascia Material	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	0.040 in Aluminum	1960	1960	350
2		3436	3436	600
3		3064	3064	520
	Average:	2820	2820	**490**

ANSI/SPRI Test RE-2 Pull-Off Test for Edge Flashing - Test Dates: 10/26/15 and 10/27/15

***Rapid-Lok Fascia* edge flashing system - 5-1/2 in high by 12 ft long - Continuous Cleat**

Specimen No.	Fascia Material	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	24 GA Steel	4016	4016	710
2		4164	3776	650
3		2452	2452	420
	Average:	3544	3415	**593**

3.3 Test Results (Continued)

ANSI/SPRI Test RE-2 Pull-Off Test for Edge Flashing - Test Dates: 10/27/15 and 10/28/15

Edge-Lok 2 Fascia **edge flashing system - 11-3/4 in high by 12 ft long - Continuous Cleat**

Specimen No.	Fascia Material	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	0.040 in Aluminum	373	373	50
2		366	342	50
3		370	370	50
	Average:	370	362	**50**

ANSI/SPRI Test RE-2 Pull-Off Test for Edge Flashing - Test Date: 10/27/15

Edge-Lok 2 Fascia **edge flashing system - 11-3/4 in high by 12 ft long - Continuous Cleat**

Specimen No.	Material	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	24 GA Steel	306	306	40
2		363	351	50
3		251	251	30
	Average:	307	303	**40**

ANSI/SPRI Test RE-2 Pull-Off Test for Edge Flashing - Test Date: 10/28/15

Edge-Lok 3 Fascia **edge flashing system - 11-3/4 in high by 12 ft long - Continuous Cleat**

Specimen No.	Fascia Material	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	0.040 in Aluminum	987	987	150
2		841	841	140
3		709	670	110
	Average:	846	833	**133**

ANSI/SPRI Test RE-2 Pull-Off Test for Edge Flashing - Test Date: 10/28/15

Edge-Lok 3 Fascia **edge flashing system - 11-3/4 in high by 12 ft long - Continuous Cleat**

Specimen No.	Material	Peak Load at Failure (lb)	Max. Sustained Load prior to Failure (lb)	Equivalent Sustained Pressure (psf)
1	24 GA Steel	951	951	140
2		894	841	140
3		914	914	140
	Average:	920	902	**140**

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

4.1 Specimen Description

12 ft long sections of:

- 10 in wide top face by 5-1/2 in high front face by 4-1/2 in high back face formed steel (24 GA) *Continuous Cleat Coping* with 22 GA continuous steel cleat
- 10 in wide top face by 5-1/2 in high front face by 4-1/2 in high back face formed aluminum (0.040 in) *Continuous Cleat Coping* with 22 GA continuous steel cleat
- 12-3/4 in wide top face by 7-1/2 in high front face by 5-1/2 in high back face formed steel (24 GA) *Rapid-Lok Coping* with 20 GA steel cleats (12 in wide) spaced 4 ft on center
- 12-3/4 in wide top face by 7-1/2 in high front face by 5-1/2 in high back face formed aluminum (0.040 in) *Rapid-Lok Coping* with 20 GA steel cleats (12 in wide) spaced 4 ft on center
- 12-3/4 in wide top face by 7-1/2 in high front face by 5-1/2 in high back face formed steel (24 GA) *Rapid-Lok Coping* with 20 GA steel cleats (12 in wide) spaced 6 ft on center

All coping profiles were attached to parapet mock-ups constructed SPF dimension lumber for testing.

Prior to assembly, the top and front faces of the *Continuous Cleat Coping* were drilled and each fitted with twelve 5/16 in eyebolts, fender washers (one each side) and hex nuts (one each side), 12 in on center, on the longitudinal centerlines.

The top of the cleat for the 10 in wide *Continuous Cleat Coping* was nailed to the face of a 2x10 SPF member with a single row of 1-1/2 in ring shank nails, 32 in on center. The front face of the cleat was nailed to the edge of the 2x10 SPF member with a single row of 1-1/2 in ring shank nails, 12 in on center.

The 10 in wide *Continuous Cleat Coping* was then hooked onto the front bend of the cleat, wrapped over the top of the mock-up, and its back face was fastened to the edge of the 2x10 SPF member with a single row of #9-15 x1-1/2" HHSS fasteners, 12 in on center.

The top face of the cleat for the 12 in wide *Rapid-Lok Coping* was screwed to the face of a 2x10 SPF member using four #10-13 x 1" GP fasteners. The front face of the cleat was nailed to the edge of the 2x10 SPF member with two 1-1/2 in ring shank nails.

The 12 in wide *Rapid-Lok Coping* was then hooked onto the front bend of the cleat, wrapped over the top of the mock-up, and its back face was then snapped on the back bend of the cleat.

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

4.2 Test Procedure

Load was applied to the twelve 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 twelve 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 2000 lb pound load cell.

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.

With the exception of the *Continuous Cleat Coping* profiles, 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 B for test set-up.

4.3 Test Results

ANSI/SPRI Test RE-3 - Pull-Off Test for Coping - Test Dates: 10/05/15 through 10/06/15
10 in Wide with 5-1/2 in Front Face and 4-1/2 Back Face
***Continuous Cleat Coping* with Continuous Cleat**

	Coping Material [1]									
	Steel									
Thickness	24 GA								Average [3]	
Surface	Top	Face	Top	Face	Top	Face	Top	Face	Top	Face
Surface Width (in)	10.0	5.5	10.0	4.5	10.0	5.5	10.0	5.5	10.0	5.5
Max. Sustained Load (lb)	4026	1260	4164	1044	4126	1274	4130	1271	4094	1268
Equivalent Sustained Pressure [2] (psf)	390	225	400	231	400	231	400	231	397	229

[1] *Testing conducted on 4-1/2 in face to prove that testing was conducted on the worst case (5-1/2 in) face creating the most conservative loads. All coping profiles reached the load capacity of the test equipment therefore an ultimate load due to failure was not established.*

[2] *In order to comply with ANSI/SPRI/FM 4435/ES-1 2011 the top and face pressures are in the ratio of 1.68 to 0.97 for roof height 60 ft or less.*

[3] *Reported average is calculated from results of testing conducted on the 5-1/2 in face (worst case) and does not include the results from testing conducted on the 4-1/2 in face.*

ANSI/SPRI Test RE-3 - Pull-Off Test for Coping - Test Dates: 10/06/15 through 10/07/15
10 in Wide with 5-1/2 in Front Face and 4-1/2 Back Face
***Continuous Cleat Coping* with Continuous Cleat**

	Coping Material [1]							
	Aluminum							
Thickness	0.040 in						Average	
Surface	Top	Face	Top	Face	Top	Face	Top	Face
Surface Width (in)	10.0	5.5	10.0	5.5	10.0	5.5	10.0	5.5
Max. Sustained Load (lb)	4164	1295	4158	1325	4146	1271	4156	1297
Equivalent Sustained Pressure [2] (psf)	400	231	400	231	400	231	400	231

[1] *Testing conducted on the worst case (5-1/2 in) face, as established during the testing on the 10 wide steel (24 GA) Continuous coping, creating the most conservative loads. All coping profiles reached the load capacity of the test equipment therefore an ultimate load due to failure was not established.*

[2] *In order to comply with ANSI/SPRI/FM 4435/ES-1 2011 the top and face pressures are in the ratio of 1.68 to 0.97 for roof height 60 ft or less.*

4.3 Test Results (Continued)

ANSI/SPRI Test RE-3 - Pull-Off Test for Coping - Test Date: 10/08/15
12-3/4 in Wide with 7-1/2 in Front Face and 5-1/2 Back Face
***Rapid-Lok Coping* with 20 GA Cleat Spaced at 4 ft O.C.**

	Coping Material [1]							
	Steel							
Thickness	24 GA						Average	
Surface	Top	Face	Top	Face	Top	Face	Top	Face
Surface Width (in)	12.75	5.5	12.75	5.5	12.75	5.5	12.75	5.5
Peak Load at Failure (lb)	710	317	768	384	739	406	739	369
Max. Sustained Load Prior to Failure (lb)	656	317	758	384	651	328	688	343
Equivalent Sustained Pressure [2] (psf)	100	58	110	64	100	58	103	60

[1] *Testing conducted on the worst case (5-1/2 in) face, as established during the testing on the 12-3/4 in wide steel (24 GA) Rapid-Lok Coping with cleats spaced at 6 ft on center, creating the most conservative loads.*

[2] *In order to comply with ANSI/SPRI/FM 4435/ES-1 2011 the top and face pressures are in the ratio of 1.68 to 0.97 for roof height 60 ft or less.*

ANSI/SPRI Test RE-3 - Pull-Off Test for Coping - Test Dates: 10/08/15 through 10/09/15
12-3/4 in Wide with 7-1/2 in Front Face and 5-1/2 Back Face
***Rapid-Lok Coping* with 20 GA Cleat Spaced at 4 ft O.C.**

	Coping Material [1]							
	Aluminum							
Thickness	0.040 in						Average	
Surface	Top	Face	Top	Face	Top	Face	Top	Face
Surface Width (in)	12.75	5.5	12.75	5.5	12.75	5.5	12.75	5.5
Peak Load at Failure (lb)	775	355	888	361	836	364	833	360
Max. Sustained Load Prior to Failure (lb)	717	483	787	361	802	364	769	403
Equivalent Sustained Pressure [2] (psf)	110	64	120	69	120	69	117	67

[1] *Testing conducted on the worst case (5-1/2 in) face, as established during the testing on the 12-3/4 in wide steel (24 GA) Rapid-Lok Coping with cleats spaced at 6 ft on center, creating the most conservative loads.*

[2] *In order to comply with ANSI/SPRI/FM 4435/ES-1 2011 the top and face pressures are in the ratio of 1.68 to 0.97 for roof height 60 ft or less.*

4.3 Test Results (Continued)

ANSI/SPRI Test RE-3 - Pull-Off Test for Coping - Test Date: 10/08/15
12-3/4 in Wide with 7-1/2 in Front Face and 5-1/2 Back Face
***Rapid-Lok Coping* with 20 GA Cleat Spaced at 6 ft O.C.**

	Coping Material			
	Steel			
Thickness	24 GA			
Surface	**Top**	**Face**	**Top**	**Face**
Surface Width (in)	12.75	7.5	12.75	5.5
Peak Load at Failure (lb)	700	555	593	343
Max. Sustained Load Prior to Failure (lb)	674	454	523	269
Equivalent Sustained Pressure [1] (psf)	110	58	80	46

[1] *In order to comply with ANSI/SPRI/FM 4435/ES-1 2011 the top and face pressures are in the ratio of 1.68 to 0.97 for roof height 60 ft or less.*

Note: Due to the results of the testing from the 12-3/4 in wide steel (24 GA) Rapid-Lok coping with the cleats spaced at 6 ft on center, ATAS International, Inc. decided to discontinue the testing and change the spacing of the cleats.

5.0 Closing Statement

Intertek-ATI 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 Intertek-ATI 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 Intertek-ATI.

For INTERTEK-ATI:

Digitally Signed by: Adam J. Schrum

Adam J. Schrum
Technician I
Structural Systems Testing

Digitally Signed by: Travis Hoover

Travis A. Hoover
Program Manager
Structural Systems Testing

ASJ:tah/jas

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix A - Drawings (7)
Appendix B - Photographs (2)

Revision Log

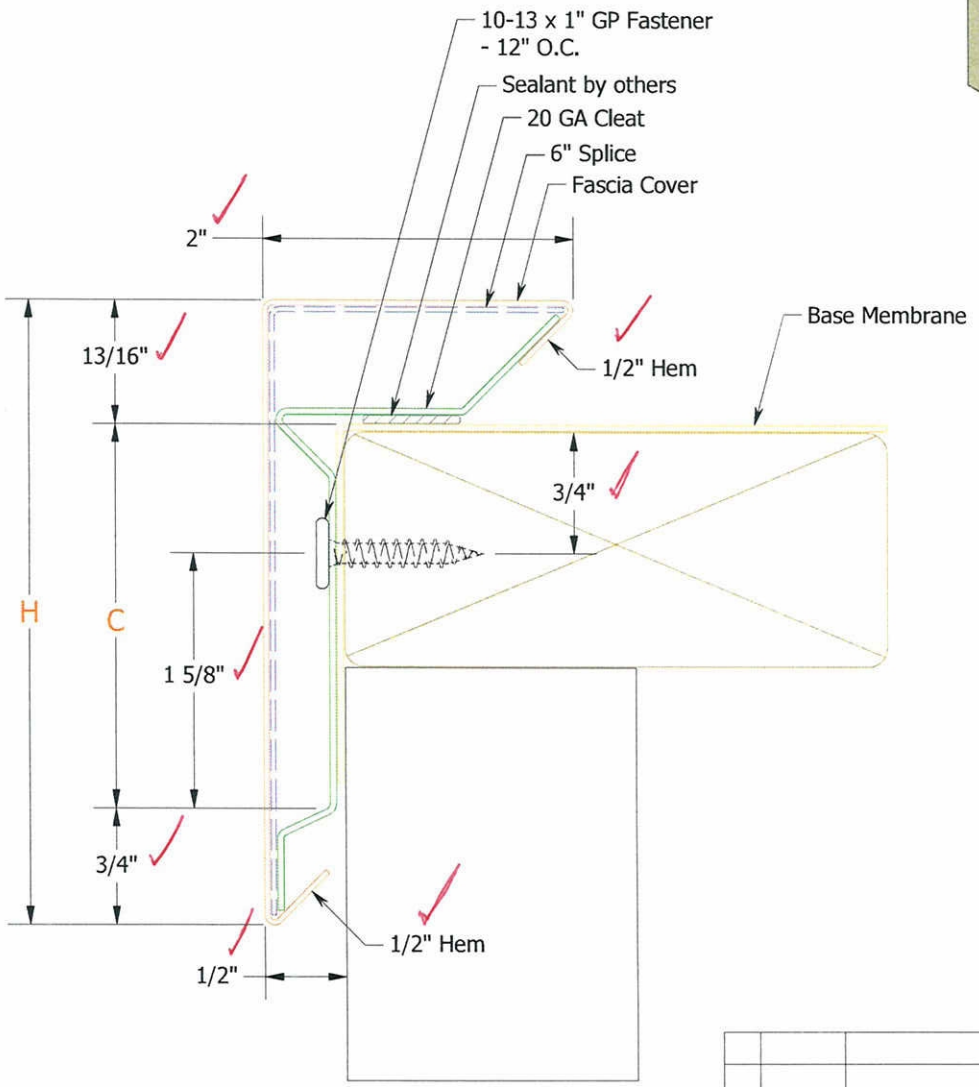
Rev. #	Date	Page(s)	Revision(s)
0	12/11/15	N/A	Original report issue
1	02/23/16	All	Added ANSI/SPRI Test RE-1 test data

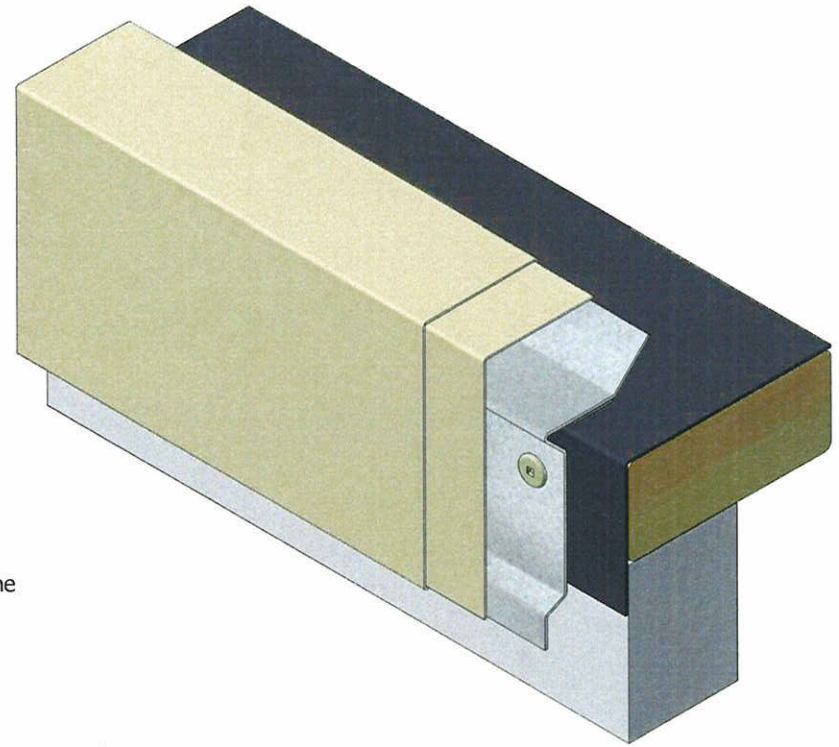
APPENDIX A

Drawings

Dimensions	
Coverage (C)	Height (H)
2-1/2"	4"
4"	5-1/2"
5-1/2"	7"
7"	8-1/2"
8-1/2"	10"
10"	11-1/2"

Standard Materials	
Material	Available Gauges
Pre-Finished Steel	24 GA, 22 GA
Stainless Steel	24 GA, 22 GA
Pre-Finished Alum.	.040, .050, .063
Mill Alum.	.040, .050, .063





Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # F1420.01-119-16

Date 12/3/15 Tech AJS

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

TITLE: Rapid Lok Fascia - Design Drawing

DWG. NO.

DR: PJR DATE: 08-13-15

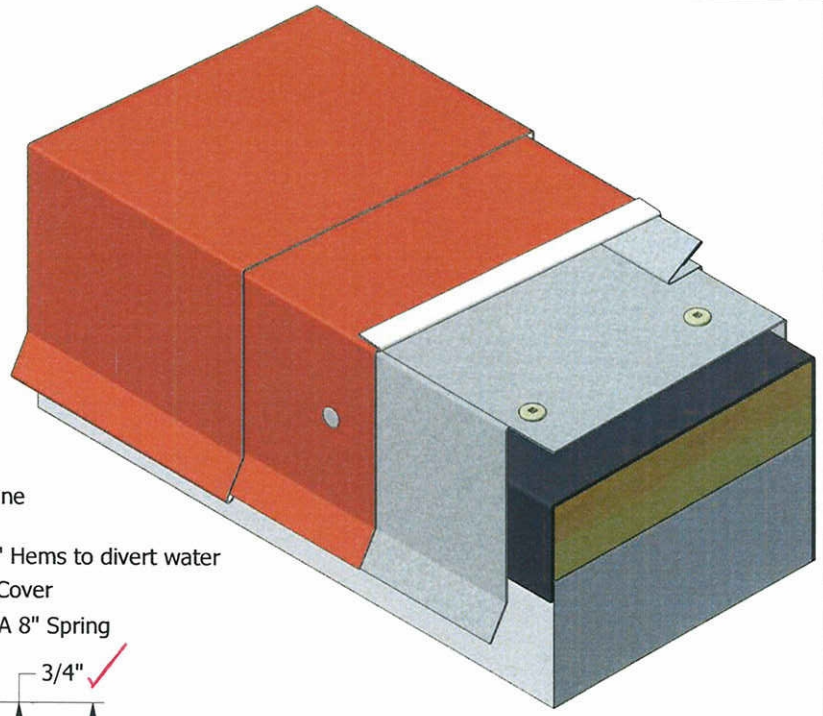
APP DATE

MATERIAL

SH. SIZE: A SCALE: X:X

Dimensions		
Coverage (C)	Height (H)	Width (W)
2-1/2"	4-1/2"	4"-12"
4"	6"	4"-12"
5-1/2"	7-1/2"	4"-12"

Standard Materials	
Materials	Available Gauges
Pre-Finished Steel	24 GA, 22 GA
Stainless Steel	24 GA, 22 GA
Pre-Finished Alum.	.040, .050, .063
Mill Alum.	.040, .050, .063

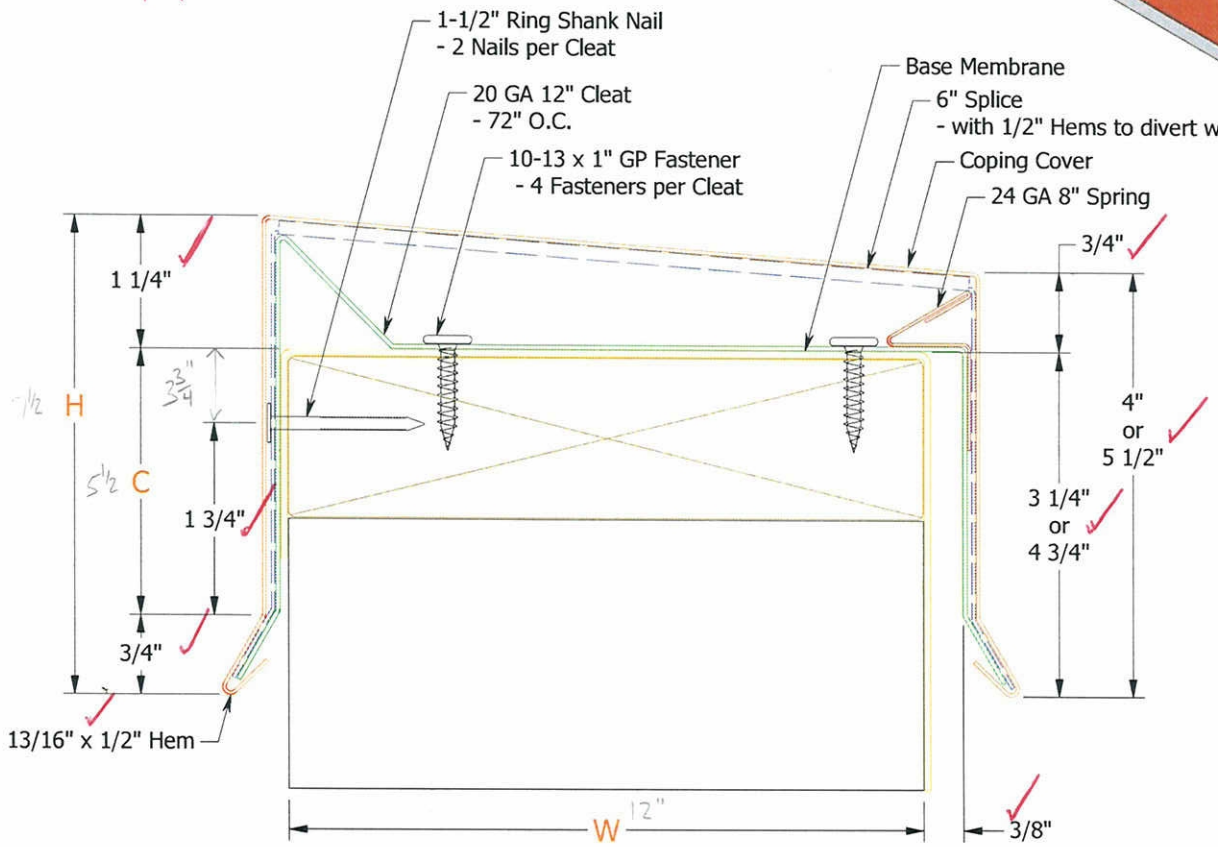


Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # F1420.01-119-16

Date 12/8/15 **Tech** AJS





Pre-Punched Nail Holes

Pre-Punched Fastener Holes

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

TITLE: Rapid Lok Coping - Design Drawing

DWG. NO.

DR: PJR DATE: 08-21-15

APP DATE

MATERIAL

SH. SIZE: A SCALE: X:X

Dimensions		
Coverage (C)	Height (H)	Width (W)
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4"	6"	12"-32"
5-1/2"	7-1/2"	12"-32"

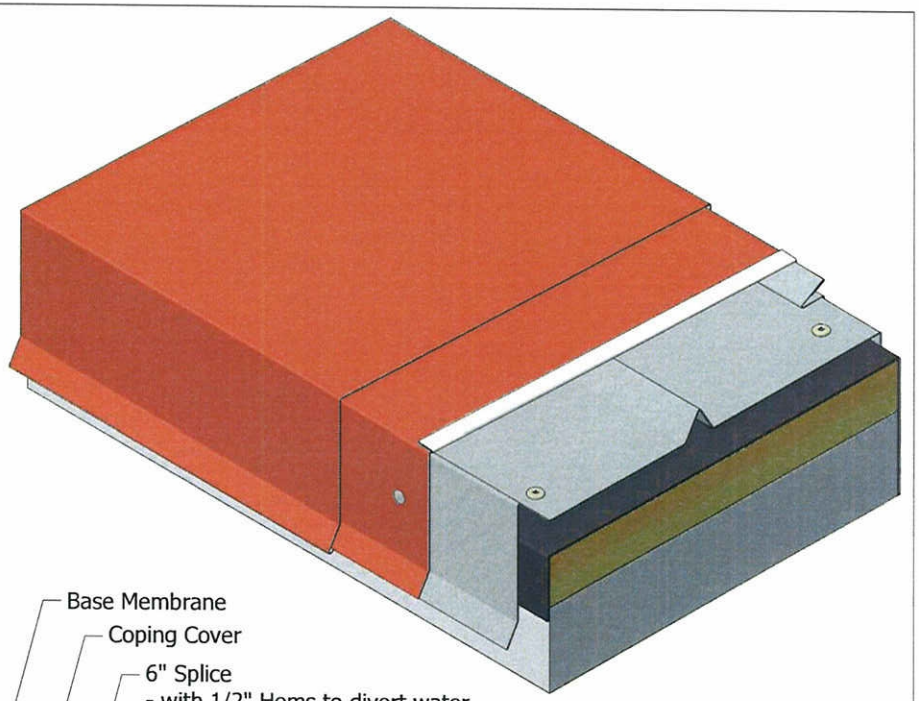
Standard Materials	
Materials	Available Gauges
Pre-Finished Steel	24 GA, 22 GA
Stainless Steel	24 GA, 22 GA
Pre-Finished Alum.	.040, .050, .063
Mill Alum.	.040, .050, .063

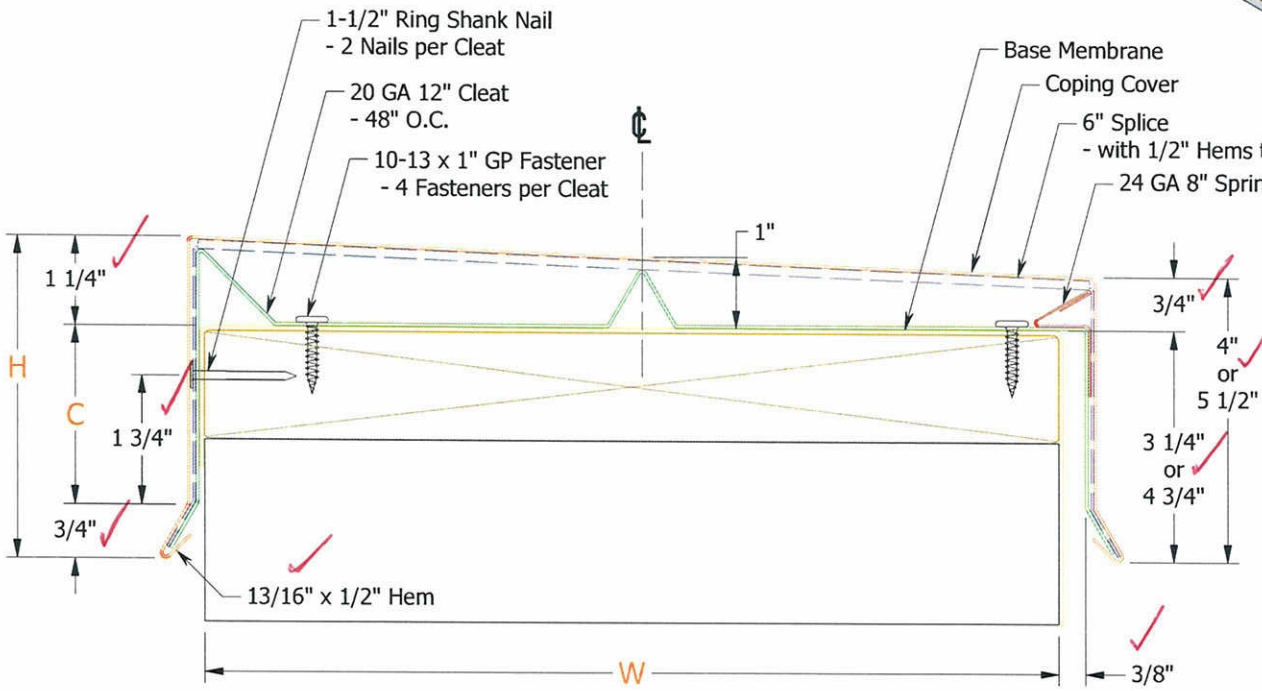
Architectural Testing

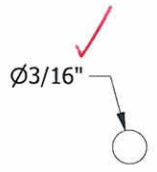
Test sample complies with these details.
Deviations are noted.

Report # F1470.01-119-16

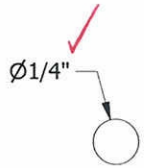
Date 12/8/15 Tech AJS







Pre-Punched
Nail Slots



Pre-Punched
Fastener Holes

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

TITLE: Rapid Lok Coping - Design Drawing

DWG. NO.

DR: PJR

DATE: 08-21-15

APP

DATE

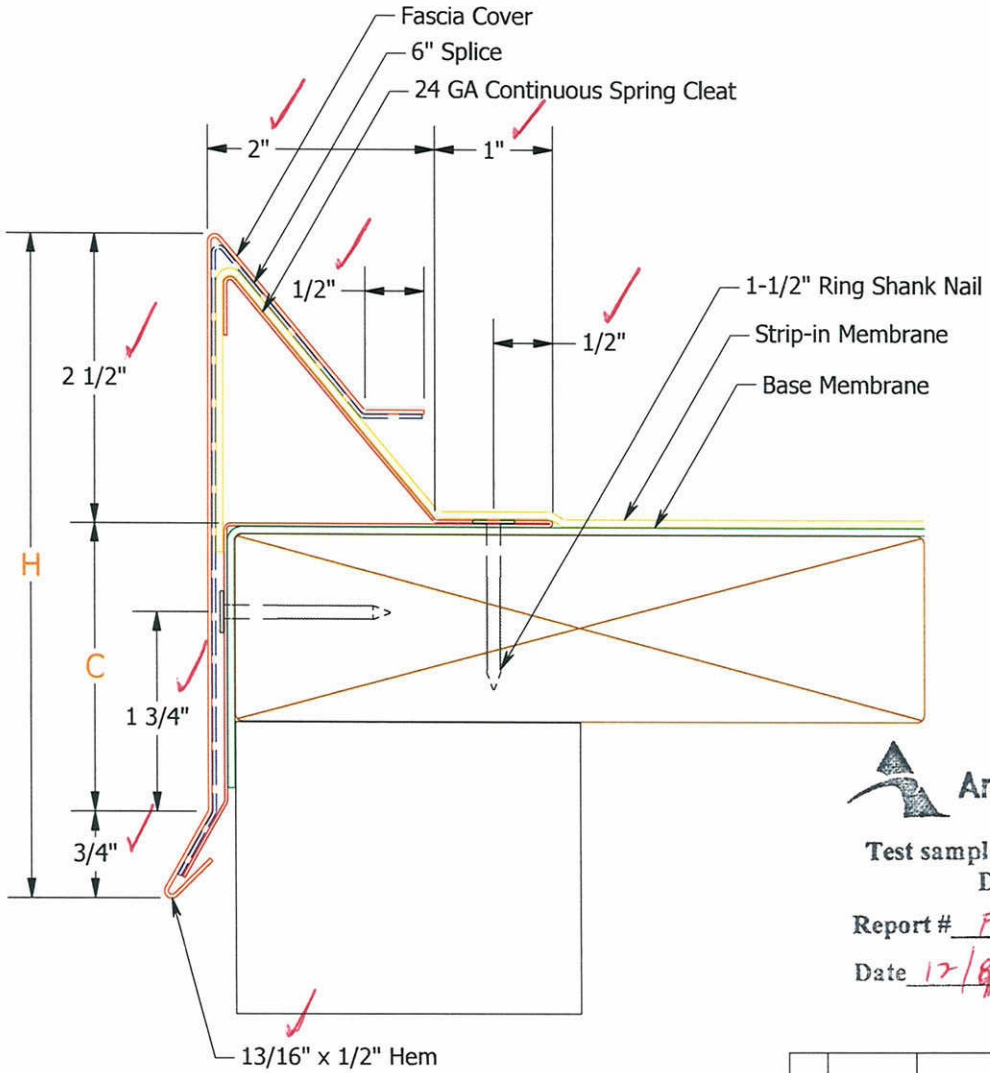
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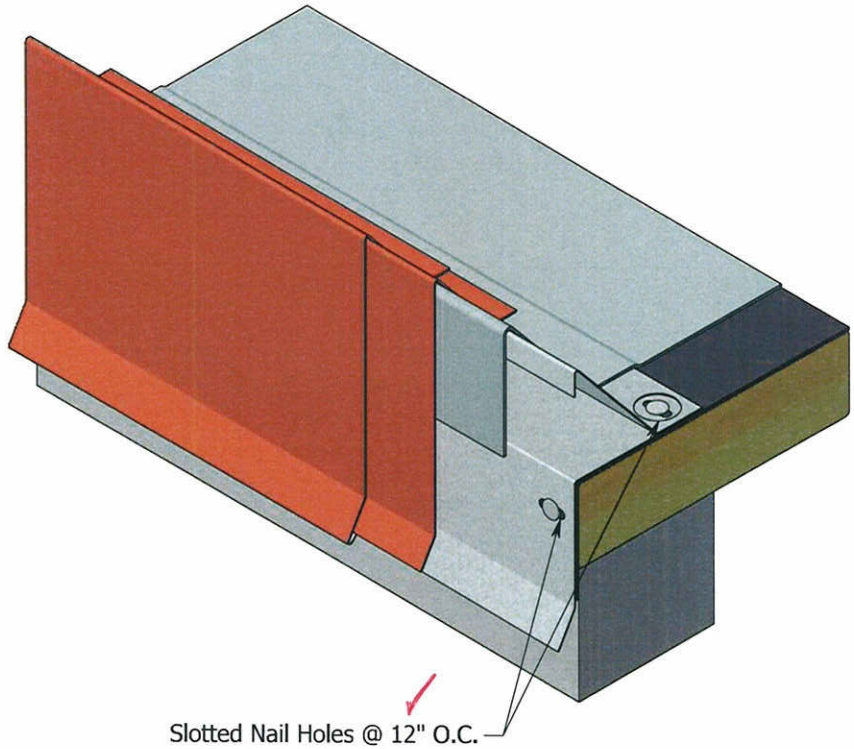
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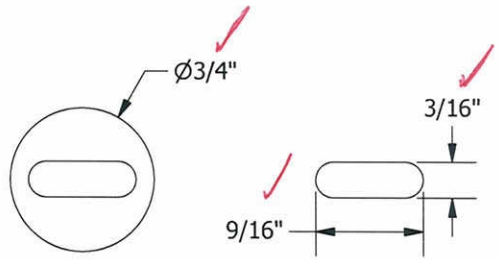
SCALE: X:X

Dimensions	
Coverage (C)	Height (H)
2-1/2"	5-3/4"
4"	7-1/4"
5-1/2"	8-3/4"
7"	10-1/4"
8-1/2"	11-3/4"

Standard Materials	
Material	Available Gauges
Pre-Finished Steel	24 ga
Stainless Steel	24ga
Pre-Finished Alum	.040, .050, .063
Mill Alum	.040, .050, .063







Top Face Slotting

Side Face Slotting

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # F1420.01-119-16

Date 12/8/15 Tech AJS

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

TITLE: Edge Lok 2 - Design Drawing

DWG. NO.

DR: PJR

DATE: 08-06-15

APP

DATE

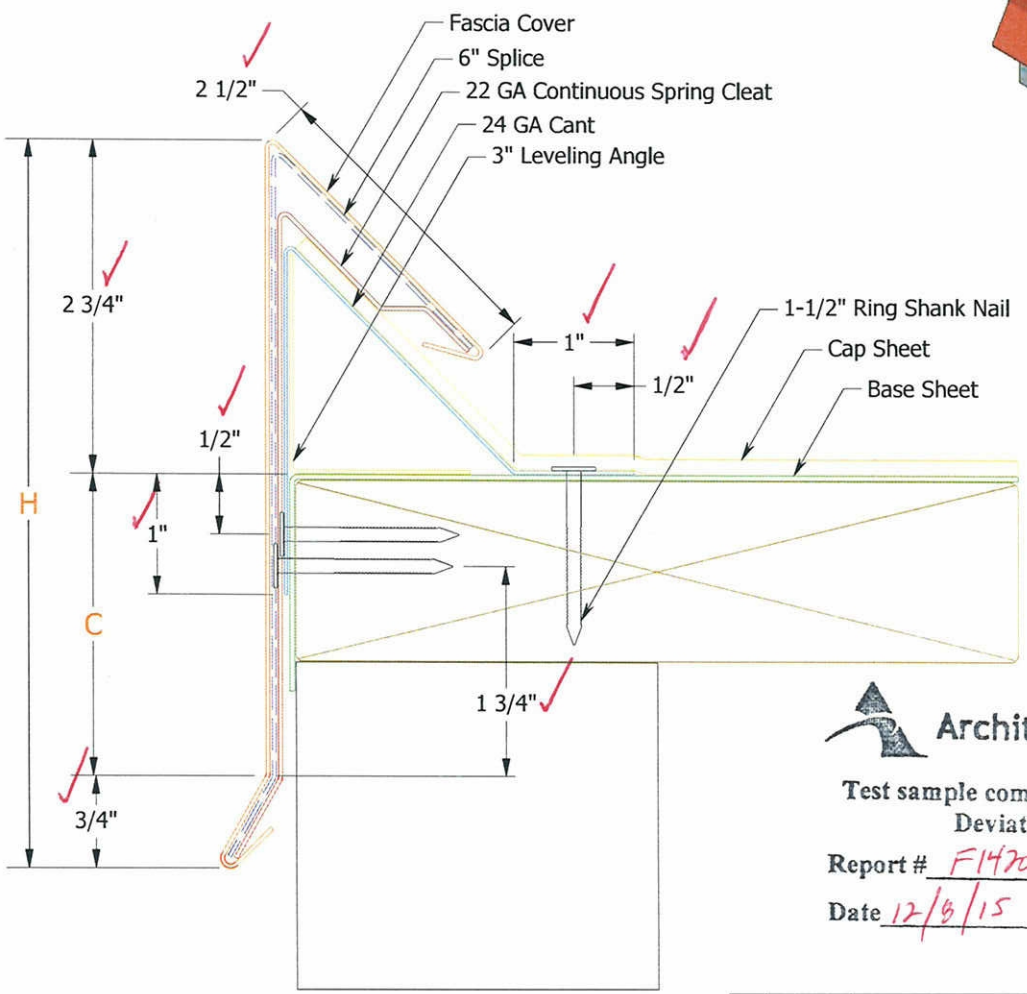
MATERIAL

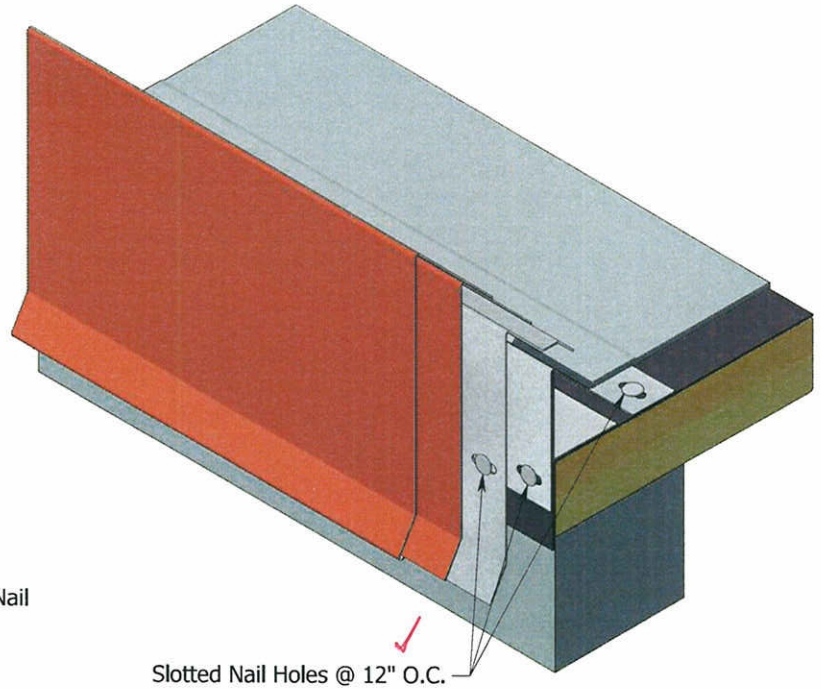
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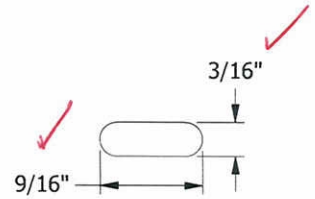
SCALE: X:X

Dimensions	
Coverage (C)	Height (H)
2-1/2"	6"
4"	7-1/2"
5-1/2"	9"
7"	10-1/2"
8-1/2"	12"

Standard Materials	
Material	Available Gauges
Pre-Finished Steel	24 GA, 22 GA
Stainless Steel	24 GA, 22 GA
Pre-Finished Alum.	.040, .050, .063
Mill Alum.	.040, .050, .063







Top and Side Face Slotting

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # F1420.01-119-16

Date 12/8/15 Tech AJS

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

TITLE: Edge Lok 3 - Design Drawing

DWG. NO.

DR: PJR DATE: 08-11-15

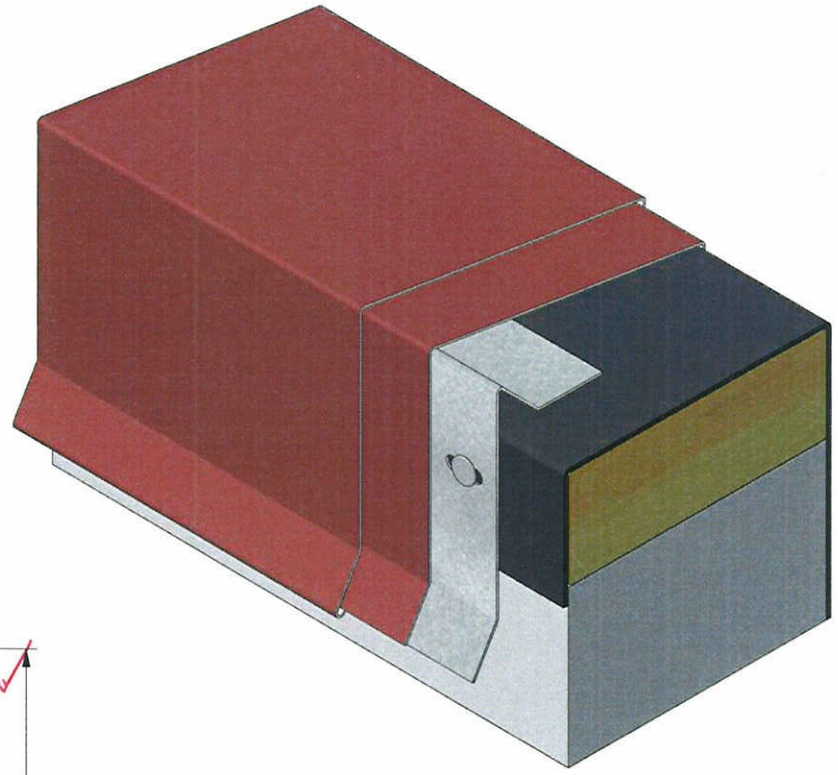
APP DATE

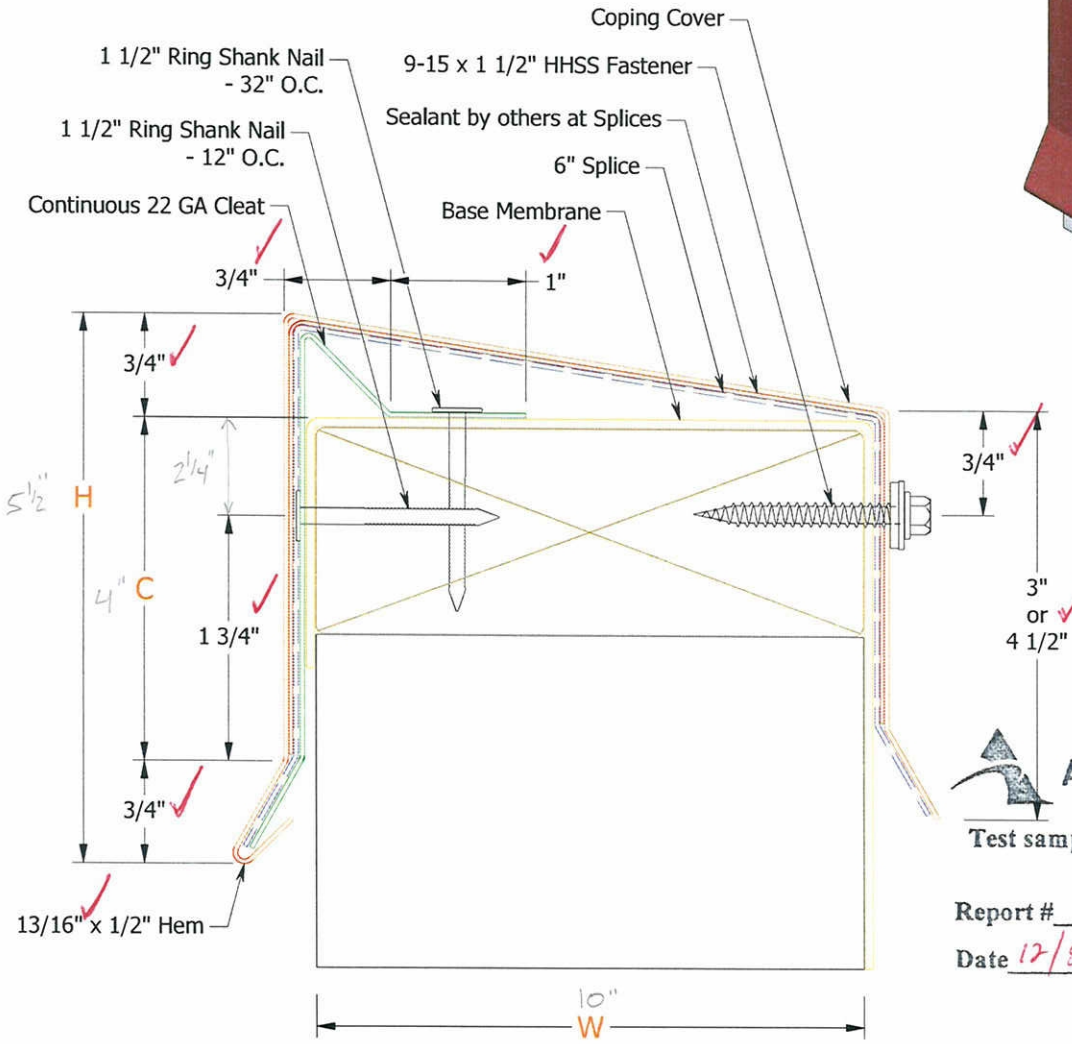
MATERIAL

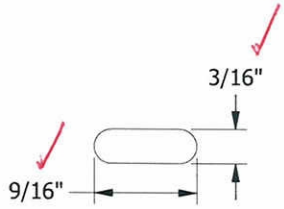
SH. SIZE: A SCALE: X:X

Dimensions		
Coverage (C)	Height (H)	Width (W)
2 1/2"	4"	4" - 10"
4"	5 1/2"	4" - 10"

Standard Materials	
Material	Available Gauges
Pre-Finished Steel	24 GA, 22 GA
Stainless Steel	24 GA, 22 GA
Pre-Finished Alum.	.040, .050, .063
Mill Alum.	.040, .050, .063







Slotted Fastener and Nail Holes

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # F1420.01-119-16

Date 12/3/15 Tech AJS

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

TITLE: Continuous Cleat Coping - Design Drawing

DWG. NO.

DR: PJR | DATE: 08-27-15

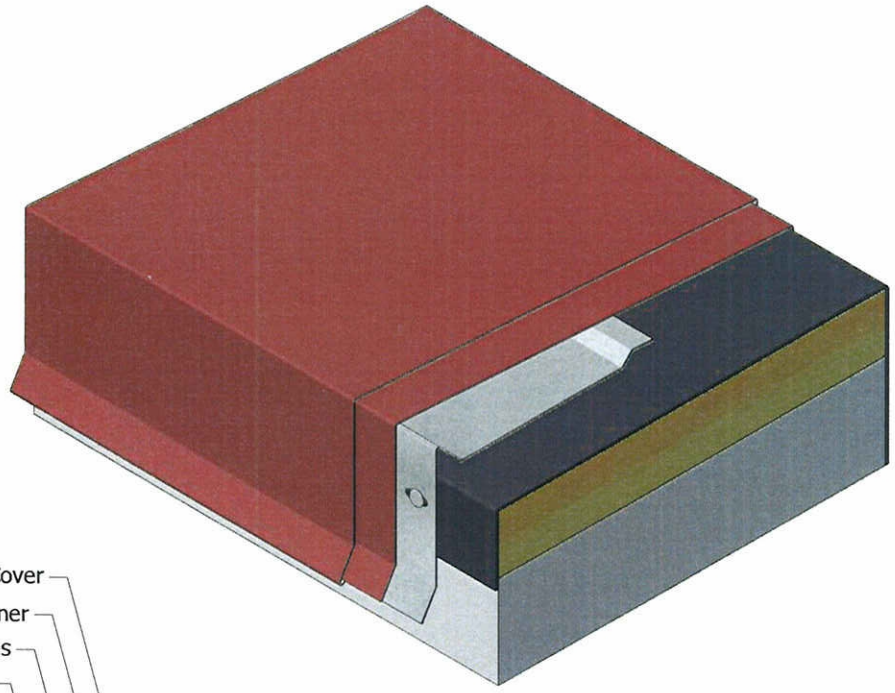
APP | DATE

MATERIAL

SH. SIZE: A | SCALE: X:X

Dimensions		
Coverage (C)	Height (H)	Width (W)
2 1/2"	4"	10" - 24"
4"	5 1/2"	10" - 24"

Standard Materials	
Material	Available Gauges
Pre-Finished Steel	24 GA, 22 GA
Stainless Steel	24 GA, 22 GA
Pre-Finished Alum.	.040, .050, .063
Mill Alum.	.040, .050, .063

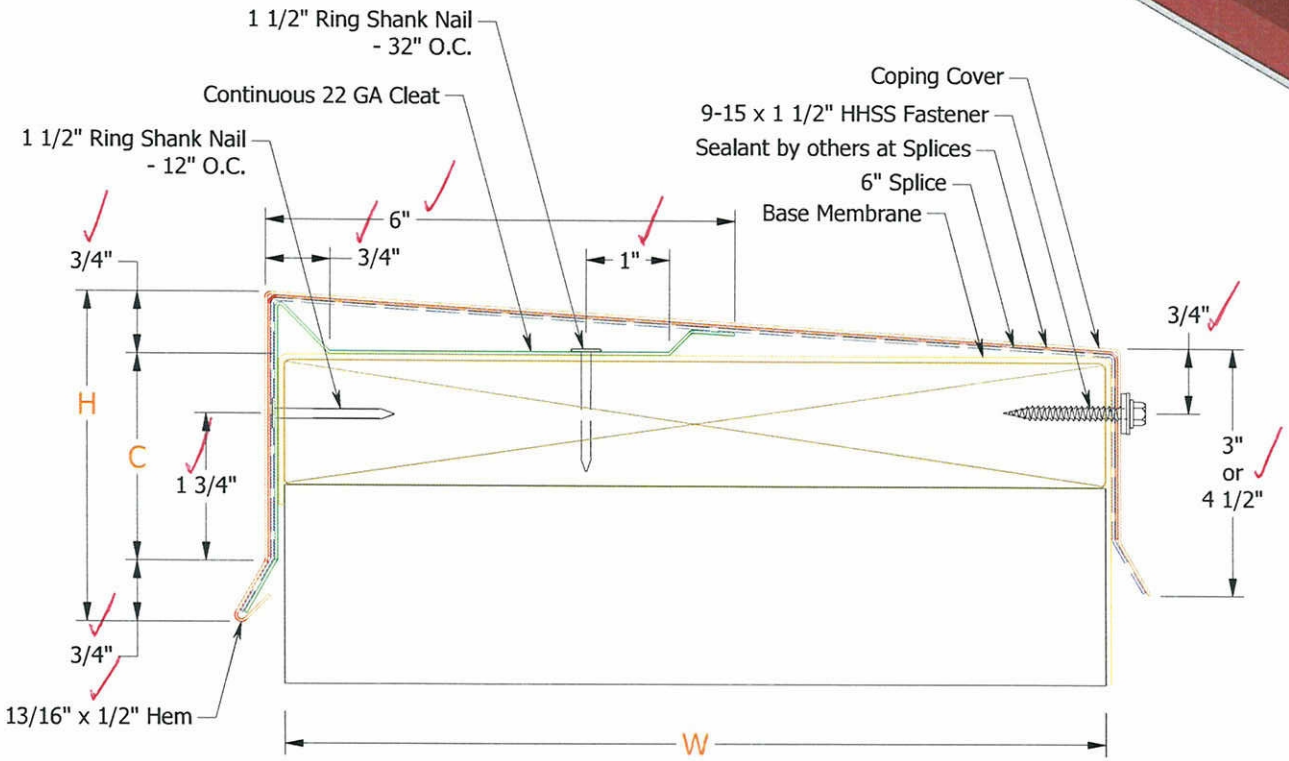


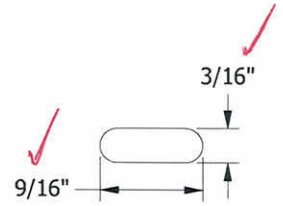
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # F1420.01-119-16

Date 12/8/15 Tech AJS





Slotted Fastener and Nail Holes

ATAS INTERNATIONAL, INC
Allentown PA
610-395-8445
Mesa AZ
480-558-7210

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	APP

TITLE: Continuous Cleat Coping - Design Drawing

DWG. NO.

DR: PJR DATE: 08-27-15

APP DATE

MATERIAL

SH. SIZE: A SCALE: X:X

APPENDIX B

Photographs



Photo No. 1
Fascia System (*Rapid-Lok*) with Applied Load



Photo No. 2
Typical Failure Mode - Fascia System (*Edge-Lok*)



Photo No. 3
Coping System with Applied Load in Both Directions



Photo No. 4
Typical Failure Mode - Coping System