

FALL PROTECTION DISTRIBUTORS, LLC TEST REPORT

SCOPE OF WORK

ANSI/ASSE Z359.18 SECTION 4.2.1.1 (TYPE A)/OSHA 1910.140(C)(8) STATIC STRENGTH
EVALUATION OF A DUAL-ANCHORAGE STANDING SEAM PLATE SYSTEM (SSRA3 ANCHOR
PLATE)

REPORT NUMBER

I9295.01-106-31 R0

TEST DATES

10/09/18 - 10/11/18

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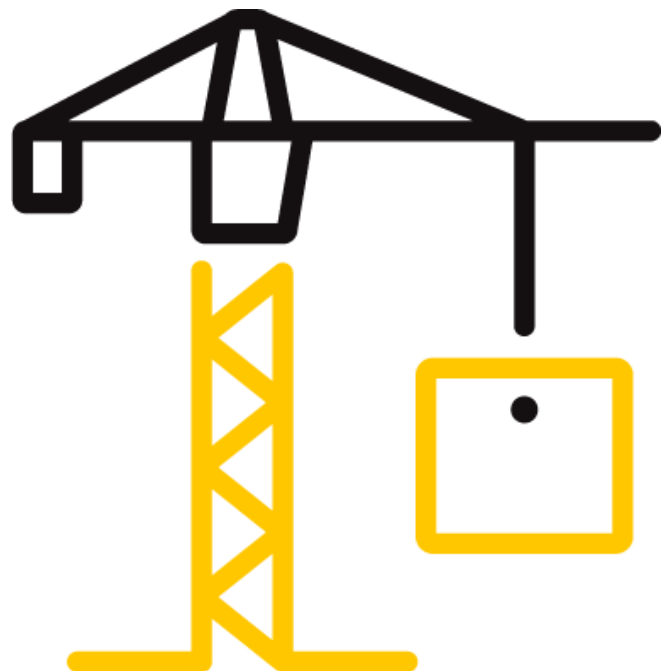
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Report No.: I9295.01-106-31 R0

Date: 11/02/18

REPORT ISSUED TO

FALL PROTECTION DISTRIBUTORS, LLC

1324 Seven Springs Boulevard #323

Trinity, FL 34655

SECTION 1

SCOPE

Product: SSRA3 Anchor Plate - Standing Seam Anchorage System

Intertek Building & Construction (B&C) was contracted by Fall Protection Distributors, LLC to evaluate one dual standing seam spanner plate anchorage system (SSRA3 Anchor Plate) in accordance with ANSI/ASSE Z359.18 Section 4.2.1.1 (Type A) Static Strength Test and OSHA 1910.140(C)(8) - *Personal Fall Protection Systems*. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Scott D. Scallorn
TITLE:	Project Engineer Materials Laboratory
SIGNATURE:	
DATE:	11/02/18

REVIEWED BY:	Joseph M. Brickner
TITLE:	Laboratory Supervisor Materials Laboratory
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DATE:	11/02/18

SDS:jmb/jlp

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SECTION 2

TEST METHOD

The specimens were evaluated in accordance with the following:

ANSI/ASSE Z359.18-2017, *Safety Requirements for Anchorage Connectors for Active Fall protection Systems*

OSHA 1910.140, *Personal Fall protection Systems*

SECTION 3

MATERIAL SOURCE

The test materials were provided by Fall Protection Distributors, LLC. Installation mockups were assembled on-site at the Intertek-ATI test facility located in York, PA. by Fall Protection Distributors, LLC personnel with the assistance of Intertek-ATI personnel. Refer to the product description photos in Section 9. The anchorage installation test mockups were evaluated by Intertek-ATI personnel immediately upon assembly. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Scott D. Scallorn	Intertek B&C
Joseph M. Brickner	Intertek B&C
Brion McMullen	Action Manufacturing SnoBar LLC
Howie Scarboro	Fall Protection Distributors, LLC

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SECTION 5

TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 9.

ANSI/ASSE Z359.18 - Static Strength Evaluation

The Static Strength evaluation was performed on a SATEC UTM (ICN: Y002011). Load was applied both parallel and perpendicular to the mockup substrate standing seam orientation, designated as Side Load and In-Line Load, respectively. A total of 3 installation mockups were evaluated for each of the four conditions evaluated, both previously detailed loading orientations for both cupped tip at 100 ft-lbs torque and nylon tip at 180 ft-lbs torque anchorage systems. As per section 4.2.1.1.e., load was applied at a constant crosshead movement of 2 in/min. until the target load of 5,000 lbf was achieved and then held for a minimum of 3 minutes prior to release and evaluation of the post-test mockup assembly. Test results were evaluated against the minimum 5,000 pound (22.2kN) load resistance performance criteria presented in ANSI/ASSE Z359.18, Section 3.2.1.1 and the OSHA 1910.140(C)(8) performance requirement of minimum 3,600 pounds tensile pounds force without failure or permanent deformation.

SECTION 6

TEST SPECIMEN DESCRIPTION

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ANSI/ASSE Z359.18 Section 4.2.1.1	Total 6 - Cupped Tip System	27 in. long x 12 in. wide x 0.4 in. thick panel sections affixed to 24 in.	Aluminum SSRA spanner plate w/attached steel D-ring
OSHA 1910.140(C)(8)	3 loaded parallel to roofing seams and 3 loaded perpendicular to roofing seams	in. x 36 in. standing seam roofing mockup substrates	See Note 1
	Total 6 - Nylon Tip System		
	3 loaded parallel to roofing seams and 3 loaded perpendicular to roofing seams		

Note 1 - Aluminum SSRA spanner plate w/attached steel D-ring bolted to two 12 in. long SSRA1 aluminum standing seam anchorages spaced at 20 in. and affixed to 24 ga coated steel seamed roofing assembly section mounted to a 2 in. thick section of stacked plywood sheathing.

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SECTION 7

TEST RESULTS

ANSI/ASSE Z359.18 - Static Strength Evaluation (Side Load/Cupped Tip)

SPECIMEN DETAILS				PEAK LOAD (lbf)	5k lbf HOLD DURATION (min)
NO.	LOAD DIRECTION	ANCHORAGE SYSTEM	TORQUE (ft-lbs)		
A-1	Side Load (Parallel to Seams)	Cupped Tip	100	5,132	3
A-2				5,053	3
A-3				5,120	3
Average				5,102	3

ANSI/ASSE Z359.18 - Static Strength Evaluation (Side Load/Nylon Tip)

SPECIMEN DETAILS				PEAK LOAD (lbf)	5k lbf HOLD DURATION (min)
NO.	LOAD DIRECTION	ANCHORAGE SYSTEM	TORQUE (ft-lbs)		
B-1	Side Load (Parallel to Seams)	Nylon Tip	180	5,085	3
B-2				5,032	3
B-3				5,058	3
Average				5,059	3

ANSI/ASSE Z359.18 - Static Strength Evaluation (In-Line Load/Cupped Tip)

SPECIMEN DETAILS				PEAK LOAD (lbf)	5k lbf HOLD DURATION (min)
NO.	LOAD DIRECTION	ANCHORAGE SYSTEM	TORQUE (ft-lbs)		
C-1	In-Line Load (Perpendicular to Seams)	Cupped Tip	100	5,021	3
C-2				5,011	3
C-3				5,033	3
Average				5,022	3

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ANSI/ASSE Z359.18 - Static Strength Evaluation (In-Line Load/Nylon Tip)

SPECIMEN DETAILS				PEAK LOAD (lbf)	5k lbf HOLD DURATION (min)
NO.	LOAD DIRECTION	ANCHORAGE SYSTEM	TORQUE (ft-lbs)		
D-1	In-Line Load (Perpendicular to Seams)	Nylon Tip	180	5,032	3
D-2				5,039	3
D-3				5,045	3
Average				5,039	3

SECTION 8

CONCLUSION

The SSRA3 Anchor Plate system met or exceeded the Type A performance requirements as specified by ANSI/ASSE Z359.18 Section 3.2.1.1. and OSHA 1910.140(c)(8)) by resisting a static load of at least 5,000 pounds (22.2kN) for a period of 3 minutes without permanent deformation for both cupped and nylon tipped anchorage systems in both loading orientations.

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SECTION 9 PHOTOGRAPHS



Photo No. 1
Side Load Test Setup - Mockup Anchorage Face



Photo No. 2
Side Load Test Setup - Mockup Rear

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Photo No. 3

In-Line Load Test Setup - Mockup Anchorage Face



Photo No. 4

In-Line Load Test Setup - Mockup Rear



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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	11/02/18	N/A	Original Report Issue