

FRONTLINE FALL PROTECTION INC TEST REPORT

SCOPE OF WORKS

ANSI Z359.18 – 2017 Safety Requirements for Anchorage Connectors for Active Fall Protection Systems

REPORT NUMBER

105938082CRT-002

ISSUE DATE

September 26, 2024

PAGES

18

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TEST REPORT FOR ON FRONTLINE FALL PROTECTIO INC

Report No.: 105938082CRT-002

Date: September 26, 2024

3933 US Route 11
Cortland, New York ,USA
13045
Telephone: 607-758-6246
Facsimile: NA
www.intertek.com

Andres Betancourt
Frontline Fall Protection Inc
6 Lee Blvd Malvern, PA 19355
USA
andres@frontlinefall.com

Phone: +1 (888)-523-1795

Report Number..... : 105938082CRT-002

Signed Quote Number..... : Qu-01448762

PO Number.....: N/A

Name of Testing Laboratory

Preparing the Report: Intertek Testing Services NA Inc.

Test Specification:

Standard.....: ANSI/ASSP Z359.18-2017

Date(s) of Testing.....: 09/17/2024 – 9/25/2024

Product Description:

Product Type:: Type T Anchor

Brand Name:: Frontline Fall Protection Inc

Model Number(s):: RO12-CAL

Model Share Number(s):.....: RO18-CAL

Date(s) Samples Received: 9/10/2024

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SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Design Requirements	3	PASS
Conditioning (Pre-Dynamic Strength) – Non Textile Abrasion	4.2.2.1.2	PASS
Dynamic Strength Test- Type T (Concrete)	4.2.2.2.4	PASS
Dynamic Strength Test- Type T (Wood)	4.2.2.2.4	PASS
Dynamic Strength Test- Type T (Metal)	4.2.2.2.4	PASS
Residual Dynamic Strength- Type T (Concrete)	4.2.3.2	PASS
Residual Dynamic Strength- Type T (Wood)	4.2.3.2	PASS
Residual Dynamic Strength- Type T (Metal)	4.2.3.2	PASS
Static Strength Test Type T (Per loading direction) (Concrete)	4.2.1.2	PASS
Static Strength Test Type T (Per loading direction) (Wood)	4.2.1.2	PASS
Static Strength Test Type T (Per loading direction) (Metal)	4.2.1.2	PASS
Marking And Instructions	5	PASS

SECTION 2

This test report concludes the work anticipated in the testing phase of your project. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

COMPLETED BY:	Alex Smith	REVIEWED BY:	Matthew Stevens
TITLE:	Technician	TITLE:	Team Leader
SIGNATURE:		SIGNATURE	
DATE	09/26/2024	DATE:	09/26/2024

Please see attached test data for details.

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SECTION 3

TESTING EQUIPMENT CALIBRATION INFORMATION

USED FOR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
X	Drop Test Structure	Intertek	NA	CAT. 3	-	N/A	N/A
X	Test Dead Weight	NA	15064	282 lbs	-	VBU	VBU
X	Load Cell	Interface	G139	-	-	03/21/24	03/21/25
X	Load Cell	Interface	L099	-	-	10/27/23	10/27/24
X	Tape Measure	Stanley	H422	25'	-	07/02/24	07/02/25

SECTION 3

SUPPLEMENTAL TEST DATA

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3	Design Requirements		PASS
3.1.1	Connection points shall meet the following requirements:		PASS
	A) A connection point shall support only one user or system at a time.		PASS
	B) A connection point eye on a type T anchorage connector shall be closed eye with a minimum 1" inside radius.		PASS
	C) Except for cinching anchorage connectors, anchorage connectors shall not have closed loops that are not intended for, or could be mistaken for, a connection point.		PASS
	D) Anchorage connectors that include an operable gate, rings, buckle, adjuster or other hardware covered by ANSI Z359.12 shall use hardware that complies with the requirements of that standard.		PASS
	E) Multiple connection points shall only be permitted on tripod and davit style anchorage connectors.		NA
3.1.2	Anchorage connector surfaces that can come in contact with other components shall be free of burrs, pits, sharp corners and roughness that could accelerate cutting or abrading of the components.		PASS
3.1.3.1	Corrosion Resistance: all hot-dip galvanized steel shall conform with ASTM A123/A123M, standard specification for Zinc (hot-dip galvanized) Coatings on iron and steel products.		PASS
3.1.3.2.1	Type A and Type T: load bearing metallic materials used in the anchorage connectors shall maintain adequate toughness at temperatures between -30 degrees F (-34C) and +130 degrees F (+54C) or be engineered to account for the reduced toughness at low temperatures. Metallic components that have been tested and certified as meeting ANSI Z359.12 are deemed to comply with this section.		PASS
3.1.3.2.2	Type D anchorage connectors shall be clearly labeled with a minimum service temperature of -10 degrees F (-23 C) if load bearing parts are made of materials specified in sections 3.1.3.2.2		NA
3.1.3.2.3	Where a type D anchorage connector is allowed to be used in temperatures below -10 degrees F (-23 C), a qualified person shall verify the anchorage connector will perform as specified per the manufacturers instructions.		NA

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3.1.3.3	Finishes: hardware finishes shall be clean and free of scale, rust and deposits of foreign material other than applied protective coatings.		PASS
3.1.3.4	Welded Assembly: When components are welded, the welding shall meet ANSI/AWS D1.1 for steel, ANSI/AWS D1.2 for aluminum and ANSI/AWS D1.6 for stainless steel.		PASS
3.1.3.5	Fasteners: Manufacturer shall provide or specify fasteners for connecting an anchorage connector to an anchorage in its intended application. Information must be included in the user instructions.		PASS
3.1.4.1	Textiles shall not contain natural fibers, and shall be made of pure non-recycled synthetic material, having strength, aging, abrasion and heat resistance characteristics equivalent or superior to polyamide or polyester and shall be marked with any restrictions.		NA
3.1.4.2	Stitching/Cutting: If a subsystem uses stitching for connection of load bearing components it shall meet the following requirements: A) Use lock stitching B) Secure the end of threads by backstitching, overlapping stitching or other methods. C) Threads used for sewing shall be physically compatible with the webbing and of a quality comparable to that of the webbing. D) Hot-cut or fuse thermoplastic materials, cord, tape and webbing to prevent fraying. E) The tread color or shade shall contrast with that of the webbing to facilitate visual inspection.		NA
3.1.5.1	Other load bearing materials used in anchorage connectors shall meet the performance requirements of ANSI Z359.18-2017.		NA
3.1.5.2	Integrally connected components to which another standard in the ANSI Z359 series exists shall meet the requirements of ANSI Z359.18-2017.		NA

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3.2.2.2/4.2.2.4	<p><u>Dynamic Strength (Type T Anchor):</u></p> <p style="text-align: center;"><u>Concrete Substrate</u></p> <ul style="list-style-type: none"> • Install anchorage connector, conditioned according the applicable requirements of 4.2.2.1.2 or 4.2.2.1.3 on the test anchorage in accordance with 4.1.2 • Connect one end of the test lanyard to the connection point of the anchorage connector to be loaded or to the arrest force measuring instrumentation. • Connect the other end of the test lanyard to the test weight specified in 4.1.3 • Raise the test weight to achieve a free-fall distance of 3' (+0.1/-0). • Release the test weight by means of quick release mechanism. • Evaluate the test results per 3.2.2.1 				PASS
	Dynamic Strength Test	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	
	Anchorage connector successfully arrest the test weight?	YES	YES	YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	N/A	N/A	N/A	
	MAF (Ref Only) Lbs.	3,233	3,468	3,340	

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3.2.2.2/4.2.2.4	<p><u>Dynamic Strength (Type T Anchor) :</u></p> <p style="text-align: center;"><u>Wood Substrate</u></p> <ul style="list-style-type: none"> • Install anchorage connector, conditioned according the applicable requirements of 4.2.2.1.2 or 4.2.2.1.3 on the test anchorage in accordance with 4.1.2 • Connect one end of the test lanyard to the connection point of the anchorage connector to be loaded or to the arrest force measuring instrumentation. • Connect the other end of the test lanyard to the test weight specified in 4.1.3 • Raise the test weight to achieve a free-fall distance of 3' (+0.1/-0). • Release the test weight by means of quick release mechanism. • Evaluate the test results per 3.2.2.1 				PASS
	Dynamic Strength Test	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	
	Anchorage connector successfully arrest the test weight?	YES	YES	YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	N/A	N/A	N/A	
	MAF (Ref Only) Lbs.	3,279	3,416	3,333	

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3.2.2.2/4.2.2.4	<p><u>Dynamic Strength (Type T Anchor) :</u></p> <p style="text-align: center;"><u>Metal Substrate</u></p> <ul style="list-style-type: none"> • Install anchorage connector, conditioned according the applicable requirements of 4.2.2.1.2 or 4.2.2.1.3 on the test anchorage in accordance with 4.1.2 • Connect one end of the test lanyard to the connection point of the anchorage connector to be loaded or to the arrest force measuring instrumentation. • Connect the other end of the test lanyard to the test weight specified in 4.1.3 • Raise the test weight to achieve a free-fall distance of 3' (+0.1/-0). • Release the test weight by means of quick release mechanism. • Evaluate the test results per 3.2.2.1 				PASS
	Dynamic Strength Test	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	
	Anchorage connector successfully arrest the test weight?	YES	YES	YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	N/A	N/A	N/A	
	MAF (Ref Only) Lbs.	3,129	3,308	3,330	

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3.2.3.1/ 4.2.3.2	<p><u>Residual Dynamic Strength Test:</u></p>				PASS																				
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	<ul style="list-style-type: none"> • Repetition of the test specified in 4.2.2.1 using same anchorage connector without further conditioning and the same test lanyard used in first test. • Must support the test weight an additional minute after the residual dynamic drop. • Evaluate the test results per 3.2.3.1 																								
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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE												
3.2.1.2/ 4.2.1.2	<p><u>Static Strength Test for Type T Anchorage Connectors:</u></p> <p style="text-align: center;"><u>Metal Substrate:</u></p> <ul style="list-style-type: none"> • A new anchorage connector may be used for each test. • Test force shall be 5,000 pounds (+50/-0) • Install anchorage connector on the test anchorage in accordance with requirements of 4.1.2. • Apply load to the anchorage connector in the direction(s) of loading specified in 4.1.2.5. • Apply load at no greater than 2"/min and maintain 5,000 pound test load for at least 3 minutes. • Release load • Evaluate the test results per 3.2.1.1 <table border="1" data-bbox="375 877 1200 1045"> <thead> <tr> <th data-bbox="375 877 743 911">Static Strength Requirements</th> <th data-bbox="743 877 886 911">SAMPLE 3</th> <th data-bbox="886 877 1029 911">SAMPLE 4</th> <th data-bbox="1029 877 1200 911">SAMPLE 5</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 911 743 945">Anchorage resist the test load?</td> <td data-bbox="743 911 886 945">YES</td> <td data-bbox="886 911 1029 945">YES</td> <td data-bbox="1029 911 1200 945">YES</td> </tr> <tr> <td data-bbox="375 945 743 1045">If deformation occurred did it create more than 1/8" (3mm) between gate and body?</td> <td data-bbox="743 945 886 1045">NA</td> <td data-bbox="886 945 1029 1045">NA</td> <td data-bbox="1029 945 1200 1045">NA</td> </tr> </tbody> </table>	Static Strength Requirements	SAMPLE 3	SAMPLE 4	SAMPLE 5	Anchorage resist the test load?	YES	YES	YES	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	NA	NA	NA		PASS
Static Strength Requirements	SAMPLE 3	SAMPLE 4	SAMPLE 5												
Anchorage resist the test load?	YES	YES	YES												
If deformation occurred did it create more than 1/8" (3mm) between gate and body?	NA	NA	NA												

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5	Marking and Instruction Requirements		PASS
5.1.1	The following marking shall appear in English on the label, marking or tag that is designed to last for the lifetime of the anchorage connector and is permanently affixed to the anchorage connector:		PASS
	A) The manufacture's name or mark		PASS
	B) The year of manufacture		PASS
	C) Model number		PASS
	D) "ANSI Z359.18 and the type		PASS
	E) Marking to indicate restrictions on directions of loading, if applicable		PASS
	F) Where specified by the manufacturer, the working load.		PASS
	G) An individual serial number or a lot or batch number that provides traceability		PASS
	H) Minimum breaking strength followed by "MBS"		PASS
5.1.2	As required for the specific anchorage connector, the following marking shall appear in English on a label, marking or tag that is designed to last for the lifetime of the anchorage connector and is permanently affixed to the anchorage connector.		PASS
5.1.2.1	Anchorage connector that incorporates a closed loop not intended for connection, but may be mistake for a connection point shall be permanently labeled with a warning not to connect a fall protection system or suspended component to the closed loop when used in a cinching application.		PASS
5.1.2.3	The minimum service temperature the anchorage connector according to 3.1.3.2		PASS
5.1.2.4	For tripods and davit systems, the maximum number of users permitted on the system.		PASS
5.2	Instruction Requirements		PASS
5.2.1	Instruction and information shall be provided in English with each anchorage connector.		PASS
5.2.1.1	<p>A) A statement that the anchorage connector has been tested in compliance with the requirements of ANSI/ASSE Z359.7, and caution that the ANSI compliance and testing covers only the hardware and does not extend to the anchorage and substrate w=to which the anchorage connector is attached.</p> <p>B) Specifications for appropriate anchorage(s) to which the anchorage connector can be attached, including instructions on how to proceed when the user is unable to determine whether the anchorage meets the manufactures specification and instructions that the anchorage connector shall only be connected to anchorages that:</p> <p>i) Can withstand 5,000 pounds without failure, except that lower strengths are acceptable when permitted by applicable legislation</p> <p>ii) Are certified by a professional engineer as having the required strength for fall arrest or travel restraint, as applicable</p> <p>iii) The manufacturer may provide specifications of allowable materials including the minim shapes, sizes and geometry of structural elements to which the anchors connector may be fastened</p> <p>C) The manufacturer shall clearly label the minimum service temperature for the anchorage connector according to 3.1.3.2.</p> <p>D) The manufacturer shall supply complete specifications for fasteners</p> <p>E) The anchorage connector type</p>		PASS

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.1	Overall: F) The permitted uses of the anchorage connector G) The connection point(s), working load limit H) The material used in the anchorage connectors construction I) The length of the anchorage connector and any other dimensions that may affect its compatibility with anchorages to which it may be connected. J) The manufacturer shall make available upon request information for the design of systems, such as AAF and/or force vs. displacement curve(s) for the device. K) A statement that only one fall protection system or positioning system may be attached to an individual connection point L) Specification providing the intended direction(s) of loading of the anchorage connector M) A complete list of the anchorage connector components provided by the manufacturer at the time of sale N) A warning against unauthorized alterations, relocations or additions to the anchorage connector		PASS
5.2.1.2	Use: A) Instructions on proper installation and use, including, but not limited to, compatibility with other fall protection components B) The length of the anchorage connector and any other dimensions that may affect its compatibility with anchorages to which it may be connected C) Where applicable, directions regarding the appropriate length of lanyard to use with the anchorage connector to compensate for the additional length that it may add to the lanyard. (Instructions to include the length of anchorage connector, manner of use and location relative to working surface in the calculation of fall clearance). D) Permitted and forbidden uses, including clear description of and the recommended ways of dealing with the applicable compatibility concerns E) A warning to remove any surface contamination such as concrete, stucco, roofing material, etc., that could accelerate the cutting or abrading of attached components F) Warnings concerning environments and conditions that may degrade the anchorage connector G) Training requirements		PASS

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.3	Inspection and Field Testing: A) Instructions on testing, if needed B) Where applicable, directions for the installer to perform and document proof testing upon installation. Directions shall include proof load forces and acceptable methods C) Field serviceability testing: The manufacturer shall provide guidelines for how often field load testing must be undertaken to prove that the anchorage connector continues to be adequately secured to the structure. These guidelines shall include recommended methods for testing, including the direction and point of application of test loads D) The recommended frequencies and procedures for inspection, maintenance, and when applicable, testing E) Instructions for inspecting and servicing an anchorage connector after it is subjected to a fall or an inspection reveals an unsafe condition F) If applicable, guidelines for the retirement of the anchorage connector G) The action to be taken if an inspection of the anchorage connector reveals an unsafe condition H) The action to be taken after the anchorage connector is subjected to a fall I) Criteria for removal of an anchorage connector from service if deformed from its original installed configuration		PASS

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105938082CRT-002	09/26/2024	Original Report	Alex Smith	Matthew Stevens

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SECTION 6:
Photograph

