Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



Alexander Andrew, Inc. 1306 S. Alameda St Compton, CA 90221

Declaration #	A1218012	2a	Decla	aration Date	1	2.18.18
Tested Item #	7442		Toggle A	Anchor 5k		
Additional Items	Conforming Unde	r this Declaration:	:			
Alexander A		nts of the follo	product(s) listed owing performan			ity with
		ANSI Z35	9.18-2017			
Cor	nformity Assessm	nent Method in	accordance with A	NSI/ISEA 125	-2014	
	evel 1	Level 2	2	Level 3	Х	
Level 1: Fall Outside the	Scope of	Within th	allTech Lab le Scope of ard 17025:2005	a	ccredited	3rd Party Lab to 17025:2005
Supporting Documentation	103767304	1CRT-003				
Auth	norized Signatu	re		3		
Name Mai	rk Sasaki	Title	Director of Enginee	ring	Date _	3.20.19



ClimbTech LLC.

TEST REPORT

SCOPE OF WORKs

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

REPORT NUMBER

103767304CRT-003

ISSUE DATE

12/18/18

PAGES

13

DOCUMENT CONTROL NUMBER

GFT-OP-10a (6-March-2017) © 2017 INTERTEK





Report No.: 103767304CRT-003 Date: December 18th, 2018

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Danny Aleksovski ClimbTech LLC. 7303 Burleson Rd. Austin, TX 8744-3200 USA Danny@Climbtech.com

Report Number.....: 103767304CRT-003

Signed Quote Number.....: Qu-00933797

PO Number N/A

Name of Testing Laboratory

Preparing the Report: Intertek Testing Services NA Inc.

Test Specification:

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

Date(s) of Testing.....: 12/13/18 – 12/17/18

Product Description: Anchor

Product Type:: Type T

Brand Name: Toggle Bolt Anchor

Model Number(s): TLA075N

Date(s) Samples Received: 12/12/18

Date: 18, Dec , 2018

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSE 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	4.2.2.1.4	PASS
Residual Dynamic Strength-Type T	4.2.3.2	PASS
Static Strength Test- Type T	4.2.1.2	PASS
Serviceability Static Load Test- Type T	4.2.4.2	PASS
Markings and Instructions	5	PASS

Report No.: 103767304CRT-003

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:	Matthew Stevens	REVIEWED BY:	Andrew Rulison
TITLE:	Technician	TITLE:	Engineering Supervisor
SIGNATURE:	A12/10/10	SIGNATURE	Anday Cula
DATE	12/18/18	DATE:	12/18/18

Please see attached test data for details.

Date: 18, Dec , 2018

SECTION 3
TESTING EQUIPMENT CALIBRATION INFORMATION

USED FOR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
Х	Drop Test Structure	Intertek	NA	CAT. 3	-	N/A	N/A
Χ	Test Dead Weight	NA	15064	282 lbs	-	VBU	VBU
X	Test Dead Weight	NA	15065	300 lbs	-	VBU	VBU
X	Load Cell	Interface	558451	-	-	12/29/18	12/29/19
X	Tape Measure	Stanley	H339	25'	-	4/26/18	4/26/19

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3	Design Requirements		PASS
	Connection points shall meet the A) A connection point shall a time.	following requirements: support only one user or system at	PASS
		on a type T anchorage connector a minimum 1" inside radius.	PASS
3.1.1	connectors shall not have	orage connectors, anchorage re closed loops that are not intended n for, a connection point.	PASS
	D) Anchorage connectors to buckle, adjuster or othe shall use hardware that that standard.	PASS	
	E) Multiple connection poi and davit style anchorag	nts shall only be permitted on tripod ge connectors.	PASS
3.1.2	_	at can come in contact with other s, pits, sharp corners and roughness brading of the components.	PASS
3.1.3.1	Corrosion Resistance: all hot-dip ASTM A123/A123M, standard sp galvanized) Coatings on iron and		PASS
3.1.3.2.1	Type A and Type T: load bearing to anchorage connectors shall main temperatures between -30 degree (+54C) or be engineered to account temperatures. Metallic compone certified as meeting ANSI Z359.12 section.	PASS	
3.1.3.2.2	,,	all be clearly labeled with a minimum es F (-23 C) if load bearing parts are ctions 3.1.3.2.2	PASS

Date: 18, Dec , 2018

SECTION	REQUIREMENT	RESULTS	COMPLIANCE
3.1.3.2.3	Where a type D anchorage connected temperatures below -10 degrees verify the anchorage connector wanufacturer's instructions.	F (-23 C), a qualified person shall	PASS
3.1.3.3		be clean and free of scale, rust and r than applied protective coatings.	PASS
3.1.3.4	Welded Assembly: When compo meet ANSI/AWS D1.1 for steel, A ANSI/AWS D1.6 for stainless stee		PASS
3.1.3.5		ovide or specify fasteners for tor to an anchorage in its intended 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.		PASS
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.		PASS
3.1.5.1	Other load bearing materials use meet the performance requirem	PASS	
3.1.5.2	, ,	s to which another standard in the the requirements of ANSI Z359.18-	PASS

Date: 18, Dec , 2018

SECTION (TEST)	REQUIREMENT RESULTS			COMPLIANCE		
3.2.2.2/4.2.2.2.	Dynamic Strength (Type T Anchor): A) Install anchorage connector, con requirements of 4.2.2.1.2 or 4.2. accordance with 4.1.2 B) Connect one end of the test lany anchorage connector to be loade instrumentation. C) Connect the other end of the test 4.1.3 D) Raise the test weight to achieve E) Release the test weight by mean F) Evaluate the test results per 3.2.	PASS				
4	Dynamic Strength Test	SAMPLE:	SAMPLE:	SAMPLE:		
	Anchorage connector successfully arrest the test weight?	YES	YES	YES		
	If deformation occurred did it create more than 1/8" (3mm) between gate and N/A N/A N/A body?					
	MAF (Ref Only) Lbs. 4023 4000 4030					
	Note: Mounted through ¾" thick I-Beam Substrate.					

Date: 18, Dec , 2018

SECTION (TEST)	REQUIREMENT	RESULTS			COMPLIANCE
	connector without further condin first test. 2. Must support the test weight a dynamic drop.	 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. 			
	Residual Dynamic Strength	SAMPLE:	SAMPLE: 2	SAMPLE:	
	Anchorage connector successfully arrest the test weight?	YES	YES	YES	
3.2.3.1/4.2.3.2	Maintain the test weight for a period of at least 1 minute?	YES	YES	YES	PASS
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	N/A	N/A	N/A	

Date: 18, Dec , 2018

	<u> </u>				<u> </u>
SECTION (TEST)	REQUIREMENT		RESULTS		COMPLIANCE
3.2.1.1/4.2.1.2	Static Strength Test for Type T Anchorage Connectors: A) A new anchorage connector may be used for each test. B) Test force shall be 5,000 pounds (+50/-0) C) Install anchorage connector on the test anchorage in accordance with requirements of 4.1.2. D) Apply load to the anchorage connector in the direction(s) of loading specified in 4.1.2.5. E) Apply load at no greater than 2"/min and maintain 5,000 pound test load for at least 3 minutes. F) Release load G) Evaluate the test results per 3.2.1.1 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) NA NA NA NA between gate and body?				PASS
3.2.1.1/4.2.4.2	Serviceability Load for Type T Anchor. A new anchorage connector. Test force shall be greater to (Whichever is Greater). Install anchorage connector requirements of 4.1.2. Apply load at no greater that minutes. Release load Evaluate the test results per static Strength Requirements. Anchorage resist the test load? Cracking/Breaking or Deformation	may be used han twice the von the test and an 90lbs/min a	for each test. work load or 2, achorage in acc	ordance with	PASS

Date: 18, Dec , 2018

SECTION (TEST)	REQUIREMENT	COMPLIANCE
5	Marking and Instruction Requirements	PASS
	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: A) The manufacture's name or mark	PASS
	B) The year of manufacture	PASS
	C) Model number	PASS
5.1.1	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
5.1.2.2	For type D anchorage connectors only, any information that is needed for clearances calculations and anchorage strength identification	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

Date: 18, Dec , 2018

SECTION (TEST)	REQUIREMENT	COMPLIANCE
5.2.1.1	Overall: 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. 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: i) Can withstand 5,000 pounds without failure, except that lower strengths are acceptable when permitted by applicable legislation ii) Are certified by a professional engineer as having the required strength for fall arrest or travel restraint, as applicable 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 C) The manufacturer shall clearly label the minimum service temperature for the anchorage connector according to 3.1.3.2. D) The manufacturer shall supply complete specifications for fasteners E) The anchorage connector type	PASS

Report No.: 103767304CRT-003

Version: 03-April-2017 Page 10 of 13 Control No.

Date: 18, Dec , 2018

SECTION (TEST)	REQUIREMENT	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

Report No.: 103767304CRT-003

Version: 03-April-2017 Page 11 of 13 Control No.

Date: 18, Dec , 2018

SECTION (TEST)	REQUIREMENT	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
5.2.1.4	Clinching and Non-Clinching Style Anchorage Connectors: A) Where the anchorage connector includes an abrasion pad, provide directions that the abrasion pad shall be installed between the anchorage and the lead bearing loop B) The proper method of installing the anchorage connector including, as applicable for non-clinching anchorage connectors. The maximum angle permitted between the connection legs	PASS

Report No.: 103767304CRT-003

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
103767304CRT-003	12/18/18	Original Report	Matthew Stevens	Andrew Rulison

Date: 18, Dec , 2018

Sample Pictures

