		Fall Protection. Precision Engin Andrew, Inc. 1306 S. Alameda St Corr	lieereu.	
Declaration #	A10180	10a Dec	claration Date	10.22.18
Tested Item #	7440	Concrete W	edge Ancho	r 5k
	the requiren	eclares that the product(s) listenents of the following performa ANSI Z359.18-2017	ince standard(s)	:
Co	the requiren	nents of the following performa	ince standard(s)	:
Co	the requiren	ANSI Z359.18-2017	ANSI/ISEA 125-2 Level 3	014
Level 1: Fall Outside the	the requiren	ANSI Z359.18-2017 ANSI Z359.18-2017 Sment Method in accordance with Level 2 Level 2: FallTech Lab Within the Scope of	ANSI/ISEA 125-2 Level 3	014 X endent 3rd Party Lab redited to
Level 1: Fall Outside the ISO/IEC Standard	the requiren	ANSI Z359.18-2017 ANSI Z359.18-2017 ment Method in accordance with Level 2 Level 2 Level 2: FallTech Lab Within the Scope of ISO/IEC Standard 17025:2005 97CRT-001	ANSI/ISEA 125-2 Level 3	014 X endent 3rd Party Lab redited to



ClimbTech LLC.

TEST REPORT

SCOPE OF WORKs

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

REPORT NUMBER

103670897CRT-001

ISSUE DATE

10/22/18

PAGES

13

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



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TEST REPORT FOR CLIMBTECH LLC.

Report No.: 103670897CRT-001 Date: October 19th , 2018 3933 US Route 11 Cortland, New York ,USA 13045

Telephone: 607-758-6246 Facsimile: None www.intertek.com

> Ph: 1.800.466.6385 Fx: None

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

Report Number:	103670897CRT-001
Signed Quote Number: :	Qu-00912586
PO Number	Q#00912586

Name of Testing Laboratory Preparing the Report

Test Specification:

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

Date(s) of Testing.....: 10/16/18 - 10/18/18

Product Description:	Anchor
Product Type::	Туре Т
Brand Name::	Concrete Embedded Anchor
Model Number(s)::	RAF075N
Date(s) Samples Received:	10/8/18

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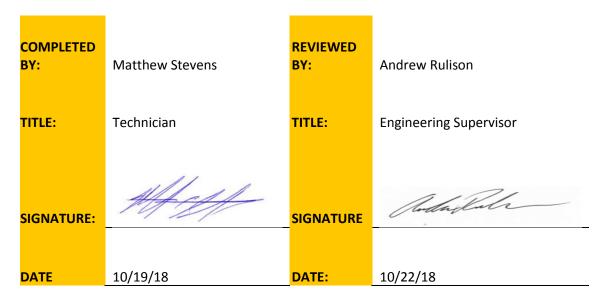
SECTION 1

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

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.



Please see attached test data for details.

Date: 22, Oct , 2018

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
Х	Test Dead Weight	NA	15064	282 lbs	-	VBU	VBU
Х	Test Dead Weight	NA	15065	300 lbs	-	VBU	VBU
Х	Load Cell	Interface	558451	-	-	12/29/18	12/29/19
Х	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 ve closed loops that are not intended n for, a connection point.	PASS
	 D) Anchorage connectors t buckle, adjuster or othe shall use hardware that that standard. 	NA	
	 E) Multiple connection poi and davit style anchorage 	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	temperatures. Metallic compone	tain adequate toughness at ees F (-34C) and +130 degrees F Int for the reduced toughness at low	PASS
3.1.3.2.2		all be clearly labeled with a minimum res F (-23 C) if load bearing parts are ctions 3.1.3.2.2	NA

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3.1.3.2.3	Where a type D anchorage connected temperatures below -10 degrees verify the anchorage connector verify the anchorage connector verify the anchorage connector vertify the anchorage connector	F (-23 C), a qualified person shall	NA
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	non-recycled synthetic material,	fibers, and shall be made of pure having strength, aging, abrasion and juivalent or superior to polyamide or th any restrictions.	PASS
3.1.4.2	 bearing components it shall meet A) Use lock stitching B) Secure the end of thread stitching or other method C) Threads used for sewing the webbing and of a qui webbing. D) Hot-cut or fuse thermore webbing to prevent fray 	ds by backstitching, overlapping ods. s shall be physically compatible with ality comparable to that of the plastic materials, cord, tape and ing. e shall contrast with that of the	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

SECTION (TEST)	REQUIREMENT	F	RESULTS		COMPLIANCE
	 Dynamic Strength (Type T Anchor): A) Install anchorage connector, requirements of 4.2.2.1.2 or accordance with 4.1.2 B) Connect one end of the test anchorage connector to be lo instrumentation. C) Connect the other end of the 4.1.3 D) Raise the test weight to achie E) Release the test weight by m F) Evaluate the test results per 	4.2.2.1.3 on the te lanyard to the con baded or to the arr e test lanyard to th eve a free-fall dista leans of quick relea	nection point rest force mea e test weight	in of the suring specified in 1/-0).	
3.2.2.2/4.2.2.2.4	Dynamic Strength Test	SAMPLE:	SAMPLE: 2	SAMPLE: 3	PASS
	Anchorage connector successfully arres the test weight?	t YES	YES	YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate an body?	nd N/A	N/A	N/A	
	MAF (Ref Only) Lbs.	3459	3437	3396	
	Note: Mounted in Round 2'x Tech LLC.	2'x5" Concrete Blo	ock Supplied b	y Climb	

SECTION (TEST)	REQUIREMENT	I	RESULTS		COMPLIANCE
	 <u>Residual Dynamic Strength Test:</u> <u>Repetition of the test specific connector without further coused in first test.</u> <u>Must support the test weight dynamic drop.</u> <u>Evaluate the test results per 3</u> 				
	Residual Dynamic Strength	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	
	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 a least 1 minute?	at YES	YES	YES	PASS
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	d N/A	N/A	N/A	

SECTION (TEST)	REQUIREMENT		RESULTS		COMPLIANCE
	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				
3.2.1.1/4.2.1.2	Static Strength Requirements	SAMPLE 3	SAMPLE 4	SAMPLE 5	PASS
	Anchorage resist the test load? If deformation occurred did it create more than 1/8" (3mm) between gate and body?	YES NA	YES NA	YES NA	
	Serviceability Load for Type T Anchor <u>A new anchorage connector</u> Test force shall be greater t (Whichever is Greater)	r may be used the work of the	f <u>or each test.</u> work load or 2,		
	Install anchorage connector requirements of 4.1.2. Apply load at no greater that				
	<u>3 minutes.</u> <u>Release load</u> <u>Evaluate the test results pe</u>	r 3.2.4.2			
3.2.1.1/4.2.4.2	Static Strength Requirements	SAMPLE 3	SAMPLE 4	SAMPLE 5	PASS
	Anchorage resist the test load?	YES	YES	YES	
	Cracking/Breaking or Deformation	NO	NO	NO	

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.	NA
5.2	Instruction Requirements	PASS
5.2.1	Instruction and information shall be provided in English with each anchorage connector.	PASS

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

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 	PASS

Date: 22, Oct , 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 	NA

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
G103670897CRT- 001	10/18/18	Original Report	Matthew Stevens	Andrew Rulison

