

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014 and ANSI/ASSP Z359.7-2019

Declaration #: DOC-UFA55207SW(12)

Declaration Date: 6/13/2022

Item #: UFA55207SW(12)

Description: KStrong® 12" Riser Post Roof Anchor with Swivel D-Ring(ANSI)

Brand Name: KStrong **Manufacturer:** KStrong

Address: 18505 Intercontinental Crossing, Houston, TX 77073

KStrong declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):

ANSI Z359.18 - 2017

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014



Level 1:

KStrong Lab Outside the Scope of ISO/IEC Standard 17025:2017



Level 2:

KStrong Lab Within the Scope of ISO/IEC Standard 17025:2017



Level 3:

Independent 3rd Party Lab accredited to ISO/IEC Standard 17025:2017

Supporting Documentation: KS-Test-UFA55207SW(12).pdf

This Certificate is a guarantee that the above standard(s) was met by the requirements of such standard. Testing was performed under normal operation mode. The results of testing apply only to the particular sample tested and the specific test carried out. This Certificate is only issued for products which have passed the testing requirements of listed standard(s).

Authorized Signature:

John H. Kemp Jr. President - KStrong

ISO 17025 Accredited Test Laboratory





Intertek Testing Services NA, Inc. 3933 US Rt. 11 Cortland, NY 13045

Tel: 1 607-753-6711 www.intertek.com **Accrediting Agency**





A2LA 5202 Presidents Court, Ste 220 Frederick, MD 21703 Tel: 301.644.3248 info@A2LA.org



KSTRONG INC TEST REPORT

SCOPE OF WORKS

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

REPORT NUMBER

104619963CRT-002

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Report No.: 104619963CRT-002

Date: June 13th 2022

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Report Number.....: 104619963CRT-002

Original Report Number.....: 104619963CRT-001

Signed Quote Number.....: Qu-01150216

PO Number...... None

Name of Testing Laboratory

Test Specification:

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

Date(s) of Testing...... 3/10/21 - 3/20/21

Product Description: Anchor

Product Type: Type A

Brand Name: KStrong INC

Model Number(s): UFA55207(18)

Model Share Number (s)::: UFA55207(12), UFA55207SW(12), UFA55207SW(18)

Date(s) Samples Received 3/9/2021

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Design Requirements	3	PASS
Static Strength Test	4.2.1.1	PASS
Conditioning- Textile Abrasion	4.2.2.1.2	PASS
Dynamic Strength Test- Type A	4.2.2.1.4	PASS
Residual Dynamic Strength- Type A	4.2.3.1	PASS
Marking And Instructions	5	PASS

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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:	Theodore Brown Technician	REVIEWED BY: TITLE:	Matthew Stevens Team Leader
SIGNATURE:	3/12/2021	SIGNATURE DATE:	6/13/2022

Please see attached test data for details.

Date: June 13th 2022

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
X	Load Cell	Interface	G139	-	-	5/28/20	5/28/21
X	Load Cell	Interface	L137	-	-	4/4/20	4/4/21
X	Tape Measure	Stanley	H339	25'	-	5/14/20	5/14/21

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SECTION 3

SUPPLEMENTAL TEST DATA

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE		
3	Design Requirements		PASS		
	Connection points shall meet the following A) A connection point shall support	g requirements: t 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.				
3.1.1		onnectors, anchorage connectors shall not stended for, or could be mistaken for, a	PASS		
		ide an operable gate, rings, buckle, ered by ANSI Z359.12 shall use hardware ents of that standard.	PASS		
	E) Multiple connection points shall style anchorage connectors.	only be permitted on tripod and davit	PASS		
3.1.2	Anchorage connector surfaces that can co shall be free of burrs, pits, sharp corners a cutting or abrading of the components.	·	PASS		
3.1.3.1	Corrosion Resistance: all hot-dip galvanize A123/A123M, standard specification for Z and steel products.		NA		
3.1.3.2.1	Type A and Type T: load bearing metallic r connectors shall maintain adequate tough degrees F (-34C) and +130 degrees F (+540 reduced toughness at low temperatures. I tested and certified as meeting ANSI Z359 section.	NA			
3.1.3.2.2	Type D anchorage connectors shall be cleatemperature of -10 degrees F (-23 C) if loat specified in sections 3.1.3.2.2	NA			
3.1.3.2.3	Where a type D anchorage connector is al 10 degrees F (-23 C), a qualified person sh perform as specified per the manufacture	NA			
3.1.3.3	Finishes: hardware finishes shall be clean foreign material other than applied protect	· · · · · · · · · · · · · · · · · · ·	PASS		

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3.1.3.4	Welded Assembly: When components are ANSI/AWS D1.1 for steel, ANSI/AWS D1.2 stainless steel.	_	NA
3.1.3.5	Fasteners: Manufacturer shall provide or sanchorage connector to an anchorage in it be included in the user instructions.		NA
3.1.4.1	Textiles shall not contain natural fibers, ar synthetic material, having strength, aging, characteristics equivalent or superior to po- with any restrictions.	PASS	
3.1.4.2	Stitching/Cutting: If a subsystem uses stitc components it shall meet the following read of the shall meet the following read of the shall be secure the end of threads by barmethods. C) Threads used for sewing shall be and of a quality comparable to to to the shall component fraying. E) The tread color or shade shall confacilitate visual inspection.	PASS	
3.1.5.1	Other load bearing materials used in anch performance requirements of ANSI Z359.1	PASS	
3.1.5.2		n another standard in the ANSI Z359 series	PASS

SECTION (TEST)	REQUIREMENT	RESULTS			COMPLIANCE	
	Static Strength Test for Type A 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:	SAMPLE:	SAMPLE:		
	• .	3	4	5		
	Anchorage resist the test load?	Yes	Yes	Yes		
4.2.1.1	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	NA	NA	NA	PASS	
	<u>Direction B</u>					
	Static Strength Requirements	SAMPLE:	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		
	<u>Direction C</u>					
	Static Strength Requirements	SAMPLE:	SAMPLE:	SAMPLE:		
	5 .	3	4	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
	Dynamic Strength: A) 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 B) 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. C) Connect the other end of the test lanyard to the test weight specified in 4.1.3 D) Raise the test weight to achieve a free-fall distance of 3' (+0.1/-0). E) Release the test weight by means of quick release mechanism. F) Evaluate the test results per 3.2.2.1				
	Sample Pre Conditioning	SAMPLE:	SAMPLE:	SAMPLE:	
4.2.2.1.2/4.2.2. 1.4	Non-Textile- Connection point rotated on hardened steel hex bar for 50,000 cycles between 50-75 RMP?		YES	YES	PASS
	Textile- Samples subjected to 2,000 hours (1,000 cycles at two hours per cycle) to Xenon Accelerated Weathering	NA	NA	NA	
	Dynamic Strength Test	SAMPLE: 6	SAMPLE:	SAMPLE: 8	
	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?	NO	NO	NO	
	MAF (Lbs.) Ref. Only	2408	2998	2937	

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SECTION (TEST)	REQUIREMENT	RESULTS			COMPLIANCE
	1. 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. 2. Must support the test weight an additional minute after the residual dynamic drop. 3. Evaluate the test results per 3.2.3.1				
4.2.3.1	Residual Dynamic Strength	SAMPLE:	SAMPLE:	SAMPLE:	PASS
4.2.3.1	Anchorage connector successfully arrest the test weight?	YES	YES	YES	17.55
	Maintain the test weight for a period of at least 1 minute?	YES	YES	YES	
	If deformation occurred did it create more than 1/8" (3mm) between gate and body?	NO	NO	NO	
	MAF (Lbs.) Ref. Only	2799	2999	2912	

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SECTION (TEST)	REQUIREMENT RESULTS	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.			
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		
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		

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SECTION (TEST)		REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.1	Overall: F) G) H) I) K) L) M)	The permitted uses of the anchor The connection point(s), working The material used in the anchorage commay affect its compatibility with connected. The manufacturer shall make av design of systems, such as AAF at the device. A statement that only one fall pumay be attached to an individual Specification providing the internanchorage connector A complete list of the anchorage manufacturer at the time of sale A warning against unauthorized anchorage connector	PASS	
5.2.1.2	Use:	Instructions on proper installatic compatibility with other fall profit The length of the anchorage commay affect its compatibility with Where applicable, directions report to use with the anchorage connected length that it may add to the land of anchorage connector, mannes surface in the calculation of fall of Permitted and forbidden uses, in recommended ways of dealing with A warning to remove any surface roofing material, etc., that could attached components Warnings concerning environment anchorage connector	PASS	

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.3	proof testing upon installation. I and acceptable methods C) Field serviceability testing: The rhow often field load testing must anchorage connector continues. These guidelines shall include reincluding the direction and point D) The recommended frequencies maintenance, and when applical E) Instructions for inspecting and studies subjected to a fall or an inspectification of the recommended frequencies of the recommended frequencies maintenance, and when applical instructions for inspecting and studies. The action to be taken if an inspection of the action to be taken after the manufacture of the recommendation of the action to be taken after the subjects the recommendation of the recommendati	the installer to perform and document Directions shall include proof load forces manufacturer shall provide guidelines for t be undertaken to prove that the to be adequately secured to the structure. commended methods for testing, t of application of test loads and procedures for inspection, ble, testing ervicing an anchorage connector after it is on reveals an unsafe condition etirement of the anchorage connector ection of the anchorage connector reveals anchorage connector is subjected to a fall rage connector from service if deformed	PASS
5.2.1.4	Clinching and Non-Clinching Styl A) Where the anchorage conn directions that the abrasior anchorage and the lead bea B) The proper method of insta	e Anchorage Connectors: ector includes an abrasion pad, provide a pad shall be installed between the aring loop Illing the anchorage connector including, ing anchorage connectors. The maximum	NA

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SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
104619963CRT-001	3/20/2021	Original Report	Theodore Brown	Matthew Stevens
104619963CRT-002	6/13/2022	Report Extension	Steve Morey	Matthew Stevens