

## **Declaration of Conformity**

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

Item #: UFA30430(SW)

Description: KStrong® Vertical Post for Containers with Swivel Anchor (ANSI)

Brand Name: KStrong

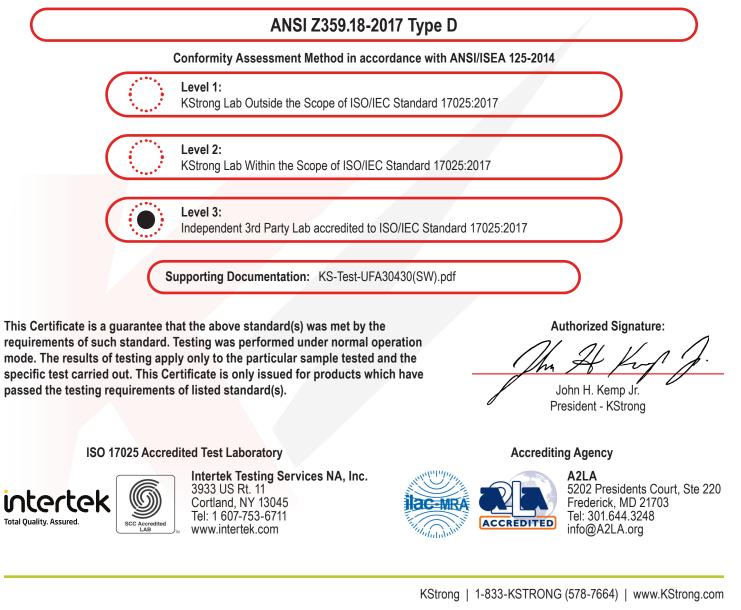
Manufacturer: KStrong

Address: 150 N. Radnor Chester Road, Suite F200, Radnor, PA 19087

### Declaration #: DOC-UFA30430(SW) Declaration Date: 08/15/2023

Additional Items Conforming Under this Declaration (If Applicable):

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





# Test Verification of Conformity

Verification Number: 105541534CRT-002

harmonized standards and Dire	test report(s), sample(s) of the below prod actives listed on this verification at the time	e the tests were carried out.	Other
-	e relevant to the product. This verification	is part of the full test report	(s) and should
be read in conjunction with it(t	hem).		
Applicant Name & Address:	KStrong INC		
	150 N. Radnor Chester Rd.		
	Suite F200		
	Radnor, PA 19087		
	USA		
Product Description:	Type D Anchor		
Models/Type References:	UFA30430(SW), UFA30430		
Brand Name:	KStrang INC		
Brand Name:	KStrong INC		
Relevant Standards:	ANSI/ASSP Z359.18 – 2017 Ed.		
Verification Issuing Office	Intertek Testing Services NA, Inc.		
Name & Address:	3933 US Rt-11		
	Cortland, NY 13045		
	USA		
Date of Tests:	7/28/2023		
Test Report Number(s):	105541534CRT-001		
-F			
Signature:	11/1 11		
	THE COM		
Name:	Matthew Stevens	- SCC Accredited	ACCREDITED
Position:	Team Leader		

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08/15/2023

Date:



# **KSTRONG INC.** TEST REPORT

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

**REPORT NUMBER** 105541534CRT-001

ORIGINAL REPORT NUMBER 105515208CRT-001

**ISSUE DATE** August 15, 2023

PAGES 13

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



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#### **TEST REPORT FOR KSTRONG INC.**

Report No.: 105541534CRT-001 Date: August 15, 2023 3933 US Route 11 Cortland, New York ,USA 13045 Telephone: 607-758-6246 Facsimile: NA www.intertek.com

KStrong Inc. 150 N. Radnor Chester Rd. Suite F200 Radnor, PA 19087 USA

Report Number.....: 105541534CRT-001

Signed Quote Number.....: Qu-01381443

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:	7/28/2023

**Product Description:** 

Product Type::	Type D Anchor
Brand Name::	KStrong
Model Number::	UFA30430(SW)
Model Share::	UFA30430
Date(s) Samples Received:	05/05/2023

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Report No: 105541534CRT-001 Date: August 15, 2023

#### 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 D	4.2.2.3	PASS
Residual Dynamic Strength- Type D	4.2.3.3	PASS
Static Strength Test (Per loading direction)	4.2.1.3	PASS
Serviceability Static Load Test- Type D	4.2.4.3	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:	ales Smith	SIGNATURE	Alf 12022
DATE	8/15/2023	DATE:	8/15/2023

Please see attached test data for details.

Report No: 105541534CRT-001 Date: August 15, 2023

#### 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	Load Cell	Interface	G139	-	-	11/8/22	11/8/23
Х	Load Cell	Interface	L099	-	-	2/14/23	2/14/24
Х	Tape Measure	Stanley	N1392	25'	-	8/23/22	8/23/23

#### SECTION 3

#### SUPPLEMENTAL TEST DATA

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3	Design Requirements		PASS
	Connection points shall meet the followin A) A connection point shall support	PASS	
	<ul> <li>B) A connection point eye on a type eye with a minimum 1" inside ratio</li> </ul>	e T anchorage connector shall be closed dius.	N/A
3.1.1		onnectors, anchorage connectors shall not itended for, or could be mistaken for, a	PASS
	<ul> <li>D) Anchorage connectors that inclu adjuster or other hardware cove that compiles with the requirem</li> </ul>	PASS	
	<ul> <li>E) Multiple connection points shall style anchorage connectors.</li> </ul>	NA	
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.	PASS	
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.	ness at temperatures between -30 C) or be engineered to account for the Metallic components that have been	N/A
3.1.3.2.2	Type D anchorage connectors shall be cleat temperature of -10 degrees F (-23 C) if loat specified in sections 3.1.3.2.2		PASS
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	all verify the anchorage connector will	PASS

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE	
3.1.3.3	Finishes: hardware finishes shall be clean foreign material other than applied protect		PASS	
3.1.3.4	Welded Assembly: When components are ANSI/AWS D1.1 for steel, ANSI/AWS D1.2 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.			
3.1.4.1	Textiles shall not contain natural fibers, ar synthetic material, having strength, aging, characteristics equivalent or superior to p with any restrictions.		NA	
3.1.4.2	<ul> <li>Stitching/Cutting: If a subsystem uses stitc components it shall meet the following re</li> <li>A) Use lock stitching</li> <li>B) Secure the end of threads by ba methods.</li> <li>C) Threads used for sewing shall be and of a quality comparable to t</li> <li>D) Hot-cut or fuse thermoplastic m prevent fraying.</li> </ul>	quirements: ckstitching, overlapping stitching or other e physically compatible with the webbing	NA	
3.1.5.1	Other load bearing materials used in anch performance requirements of ANSI Z359.1	NA		
3.1.5.2	Integrally connected components to which exists shall meet the requirements of ANS	h another standard in the ANSI Z359 series I Z359.18-2017.	NA	

SECTION (TEST)	REQUIREMENT	RESULTS			COMPLIANCE	
	<ul> <li>(1231)</li> <li>Dynamic Strength (Type D Anchor):         <ul> <li>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</li> <li>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.</li> <li>C) Connect the other end of the test lanyard to the test weight specified in 4.1.3</li> <li>D) Raise the test weight to achieve a free-fall distance of 6' (+0.1/-0).</li> <li>E) Release the test weight by means of quick release mechanism.</li> <li>F) Evaluate the test results per 3.2.2.3</li> </ul> </li> </ul>					
4.2.2.3	Dynamic Strength Test	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	PASS	
	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. 3139 3401 3433					

SECTION (TEST)	REQUIREMENT		COMPLIANCE			
	<ol> <li><u>Residual Dynamic Strength Test:</u> <ol> <li><u>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.</u></li> <li><u>Must support the test weight an additional minute after the residual dynamic drop.</u></li> <li><u>Evaluate the test results per 3.2.3.3</u></li> </ol> </li> </ol>					
	Residual Dynamic Strength	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3		
	Anchorage connector successfully arrest the test weight?	YES	YES	YES		
4.2.3.3	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		
	MAF (Ref Only) Lbs.	3336	3488	3537		

SECTION (TEST)	REQUIREMENT		5	COMPLIANCE	
4.2.1.3	Static Strength Test for Type D AncheA)A new anchorage connectorB)Test force shall be 5,000 pcC)Install anchorage connectorrequirements of 4.1.2.D)Apply load to the anchorage specified in 4.1.2.5.E)Apply load at no greater the load for at least 3 minutes.F)Release loadG)Evaluate the test results period	or may be used ounds (+50/-0) or on the test a ge connector in oan 2"/min and	for each test. nchorage in ac	(s) of loading	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	

4.2.4.3	<ul> <li><u>Anew anchorage connector</u></li> <li><u>Anew anchorage connector</u></li> <li><u>Install the anchorage connector</u></li> <li><u>Install the anchorage connector</u></li> <li><u>Install the requirements of 4</u></li> <li><u>The test force shall be the</u></li> <li><u>Apply the load simultaneo</u></li> <li><u>direction of loading specific</u></li> <li><u>Evaluate the test results point</u></li> </ul>	or may be used ector on the te 1.1.2 greater of twic usly to the anc ed in 4.1.2	est anchorage in the working	load or 450lbs.	PASS
	Static Strength Requirements	SAMPLE 3	SAMPLE 4	SAMPLE 5	
	Anchorage resist the test load?	YES	YES	YES	

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5	Marking and Instruction Requirements	PASS	
	The following marking shall appear in Engl designed to last for the lifetime of the and affixed to the anchorage connector: A) The manufacture's name or mar	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 manufac	PASS	
	G) An individual serial number or a traceability	PASS	
	H) Minimum breaking strength fol	PASS	
5.1.2	As required for the specific anchorage cor in English on a label, marking or tag that is anchorage connector and is permanently	PASS	
5.1.2.1	Anchorage connector that incorporates a but may be mistake for a connection poin warning not to connect a fall protection sy closed loop when used in a cinching applic	PASS	
5.1.2.3	The minimum service temperature the an	PASS	
5.1.2.4	For tripods and davit systems, the maximu system.	PASS	
5.2	Instruction Requirements	PASS	
5.2.1	Instruction and information shall be provide connector.	PASS	

SECTION (TEST)	REQU	IREMENT	RESULTS	COMPLIANCE
5.2.1.1	<ul> <li>with the complian the anch attached</li> <li>B) Specifica connector when the manuface shall only i)</li> <li>ii)</li> <li>iii)</li> <li>iii)</li> <li>D) The man</li> </ul>	requirements of ANSI/A nce and testing covers o orage and substrate w= tions for appropriate ar or can be attached, inclu- e user is unable to deter tures specification and is y be connected to anche Can withstand 5,000 p strengths are acceptab legislation Are certified by a profe strength for fall arrest The manufacturer may materials including the structural elements to fastened ufacturer shall clearly la orage connector accord	ounds without failure, except that lower ole when permitted by applicable essional engineer as having the required or travel restraint, as applicable y provide specifications of allowable e minim shapes, sizes and geometry of which the anchors connector may be abel the minimum service temperature for	PASS

SECTION (TEST)		REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.1	Overall: F) G) H) J) K) L) N)	may affect its compatibility with connected. The manufacturer shall make av design of systems, such as AAF a the device. A statement that only one fall pi may be attached to an individua Specification providing the inter anchorage connector A complete list of the anchorage manufacturer at the time of sale	g load limit age connectors construction inector and any other dimensions that anchorages to which it may be ailable upon request information for the and/or force vs. displacement curve(s) for rotection system or positioning system I connection point aded direction(s) of loading of the e connector components provided by the	PASS

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.2	<ul> <li>compatibility with other fall p</li> <li>B) The length of the anchorage of may affect its compatibility w</li> <li>C) Where applicable, directions to use with the anchorage correlength that it may add to the lof anchorage connector, man surface in the calculation of fa</li> <li>D) Permitted and forbidden uses recommended ways of dealin</li> <li>E) A warning to remove any surfaceing material, etc., that con attached components</li> </ul>	onnector and any other dimensions that th anchorages to which it may be connected regarding the appropriate length of lanyard unector to compensate for the additional anyard. (Instructions to include the length her of use and location relative to working	PASS

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SECTION (TEST)		REQUIREMENT	RESULTS	COMPLIANCE		
	Inspectio					
	A)	Instructions on testing, if needed	d			
	В)	Where applicable, directions for				
		proof testing upon installation. I and acceptable methods				
	C)	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 re				
5.2.1.3		including the direction and point The recommended frequencies		PASS		
	D)					
	->	maintenance, and when applical	-			
	E)	subjected to a fall or an inspection	ervicing an anchorage connector after it is on reveals an unsafe condition			
	F)	If applicable, guidelines for the r	etirement of the anchorage connector			
	G)	The action to be taken if an insp	ection of the anchorage connector reveals			
		an unsafe condition				
	H)		anchorage connector is subjected to a fall			
	I)		rage connector from service if deformed			
		from its original installed configu	uration			

#### SECTION 5 REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105515208CRT-001	07/28/23	Original Report	Alex Smith	Matthew Stevens
105541534CRT-001	08/15/23	Report Extension	Alex Smith	Matthew Stevens

Report No: 105541534CRT-001 Date: August 15, 2023

Photograph:

