

## **Declaration of Conformity**

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

Item #: UFA30420

Description: KStrong® I-beam Stanchion Anchor (ANSI)

**Brand Name:** KStrong **Manufacturer:** KStrong

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

Declaration #: DOC-UFA30420
Declaration Date: 10/09/2023

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):

### ANSI Z359.18-2017 Type D

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-UFA30420.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 Total Quality. Assured.



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



# **Test Verification of Conformity**

Verification Number: 105602883CRT-002

On the basis of the referenced test report(s), sample(s) of the below product have been found to comply with the harmonized standards and Directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it(them).

Applicant Name & Address: KStrong INC

150 N. Radnor Chester Rd.

Suite F200

Radnor, PA 19087

USA

Product Description: Type D Anchor

Models/Type References: UFA30420

Brand Name: KStrong INC

Relevant Standards: ANSI/ASSP Z359.18 – 2017 Ed.

Verification Issuing Office Ir

Name & Address:

Intertek Testing Services NA, Inc.

3933 US Rt-11 Cortland, NY 13045

USA

Date of Tests: 3/21/2023 & 7/14/2023

Test Report Number(s): 105602883CRT-001

Signature:

Name: Matthew Steven
Position: Team Leader
Date: 10/09/2023

Matthew Stevens
Team Leader



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# KSTRONG INC. TEST REPORT

#### **SCOPE OF WORKs**

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

#### **REPORT NUMBER**

105602883CRT-001

#### **ORIGINAL REPORT NUMBER**

105376340CRT-001a

#### **ISSUE DATE**

October 9, 2023

#### **PAGES**

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#### **DOCUMENT CONTROL NUMBER**

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Report No.: 105602883CRT-001

Date: October 9, 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.....: 105602883CRT-001

**Signed Quote Number.....:** Qu-01395422

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.....: 3/21/2023 & 7/14/2023

**Product Description:** 

Product Type: .....: Type D Anchor

Brand Name: .....: KStrong

Model Number(s): .....: UFA30420

Date(s) Samples Received .....: 03/03/2023

Report No: 105602883CRT-001

Date: October 9, 2023

#### **SECTION 1**

#### **SUMMARY OF TESTING**

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Design Requirements	3 *Data from 105376340CRT-001	PASS
Conditioning (Pre-Dynamic Strength) – Non Textile Abrasion	4.2.2.1.2 *Data from 105376340CRT-001	PASS
Dynamic Strength Test- Type D	4.2.2.1.4 *Data from 105376340CRT-001	PASS
Residual Dynamic Strength- Type D	4.2.3.1 *Data from 105376340CRT-001	PASS
Static Strength Test (Per loading direction)	4.2.1.1	PASS
Marking And Instructions	5 *Data from 105376340CRT-001	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:	alles Smith	SIGNATURE	10/00/2022
DATE	10/05/2023	DATE:	10/09/2023

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	G138	-	-	5/25/22	5/25/23
X	Load Cell	Interface	L099	n <b>-</b> 1	-	2/14/23	2/14/23
X	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 following  A) A connection point shall support	PASS				
	B) A connection point eye on a type					
3.1.1	, ,	onnectors, anchorage connectors shall not needed for, or could be mistaken for, a	PASS			
	adjuster or other hardware cove	·				
	E) Multiple connection points shall style anchorage connectors.	E) Multiple connection points shall only be permitted on tripod and davit				
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.	PASS				
3.1.3.2.2	Type D anchorage connectors shall be cleatemperature of -10 degrees F (-23 C) if loatemperature 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	all verify the anchorage connector will	NA			

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3.1.3.3	Finishes: hardware finishes shall be clean foreign material other than applied protections.	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 sanchorage connector to an anchorage in it be included in the user instructions.		PASS
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	Stitching/Cutting: If a subsystem uses stitc components it shall meet the following re  A) Use lock stitching  B) Secure the end of threads by ba methods.  C) Threads used for sewing shall be and of a quality comparable to t  D) Hot-cut or fuse thermoplastic m prevent fraying.  E) The tread color or shade shall confacilitate visual inspection.	NA	
3.1.5.1	Other load bearing materials used in anch performance requirements of ANSI Z359.1	<del>-</del>	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

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SECTION (TEST)	REQUIREMENT		RESULTS		COMPLIANCE
Dynamic Strength (Type D Anchor):  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 6' (+0.1/-0).  E) Release the test weight by means of quick release mechanism.  F) Evaluate the test results per 3.2.3.3					
3.2.3.3/4.2.2.1.4	Dynamic Strength Test	SAMPLE:	SAMPLE: 2	SAMPLE:	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 body?	N/A	N/A	N/A	
	MAF (Ref Only) Lbs.	2010	1811	2056	

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SECTION (TEST)	REQUIREMENT		RESULTS		COMPLIANCE
	Residual Dynamic Strength Test:     Repetition of the test specified in connector without further conding in first test.     Must support the test weight an dynamic drop.     Evaluate the test results per 3.2.				
	Residual Dynamic Strength	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	
	Anchorage connector successfully arrest the test weight?	YES	YES	YES	
3.2.3.3/4.2.3.1	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.	2023	2062	2089	

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SECTION (TEST)	REQUIREMENT		RESULTS	5	COMPLIANCE
3.2.1.3/4.2.1.1	Static Strength Test for Type D Ancho  A) A new anchorage connector  B) Test force shall be 5,000 pc  C) Install anchorage connector requirements 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 load  G) Evaluate the test results per	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	

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			
	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 manufa	F) Where specified by the manufacturer, the working load.		
	G) An individual serial number or traceability	a lot or batch number that provides	PASS	
	H) Minimum breaking strength fo	llowed by "MBS"	PASS	

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SECTION		REQUIREMENT	RESULTS	COMPLIANCE	
(TEST)			nector, the following marking shall appear		
5.1.2	As requir in English anchorag	PASS			
5.1.2.1	Anchorage but may warning closed lo	PASS			
5.1.2.3	The mini	mum service temperature the an	chorage connector according to 3.1.3.2	PASS	
5.1.2.4	For tripo system.	ds and davit systems, the maxim	um number of users permitted on the	PASS	
5.2	Instruction	on Requirements		PASS	
5.2.1			ded in English with each anchorage	PASS	
5.2.1.1	A) B) C) D) E)	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			

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.1	The length of the anchorage may affect its compatibility connected.  J) The manufacturer shall may affect the manufacturer shall may be a shall may be	S .	PASS

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SECTION (TEST)		REQUIREMENT	RESULTS	COMPLIANCE	
	K)	, ,	A statement that only one fall protection system or positioning system		
		may be attached to an individua	•		
	L)	Specification providing the inter	nded direction(s) of loading of the		
	M)	<u> </u>	e connector components provided by the		
	N)	A warning against unauthorized anchorage connector	alterations, relocations or additions to the		
	Use:				
	A)	Instructions on proper installation compatibility with other fall pro-	on and use, including, but not limited to, tection components		
	В)	5	nnector and any other dimensions that anchorages to which it may be connected		
5.2.1.2	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				
	D)	Permitted and forbidden uses, in	ncluding clear description of and the vith the applicable compatibility concerns		
	E)	A warning to remove any surface	e contamination such as concrete, stucco, I accelerate the cutting or abrading of		
	F)	•	ents and conditions that may degrade the		
	G)	Training requirements			

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SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
5.2.1.3	proof testing upon and acceptable me C) Field serviceability how often field loa anchorage connect These guidelines shincluding the direct D) The recommended maintenance, and we linstructions for instructions f	ting, if needed directions for the installer to perform and docume installation. Directions shall include proof load for thods testing: The manufacturer shall provide guidelines d testing must be undertaken to prove that the cor continues to be adequately secured to the stru hall include recommended methods for testing, tion and point of application of test loads d frequencies and procedures for inspection, when applicable, testing pecting and servicing an anchorage connector after an inspection reveals an unsafe condition lines for the retirement of the anchorage connector received.	rces s for acture.  PASS er it is cor eveals o a fall

#### **SECTION 5**

#### **REVISION HISTORY**

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105376340CRT-001	03/24/2023	Original Report	Alex Smith	Matthew Stevens
105602883CRT-001	10/09/2023	Report Extension	Alex Smith	Matthew Stevens

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#### **SECTION 6**

#### **PHOTOGRAPHS**

