

Declaration #: DOC-UFA30201

Declaration Date: 08/03/2021

Declaration of Conformity

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

Item #: UFA30201

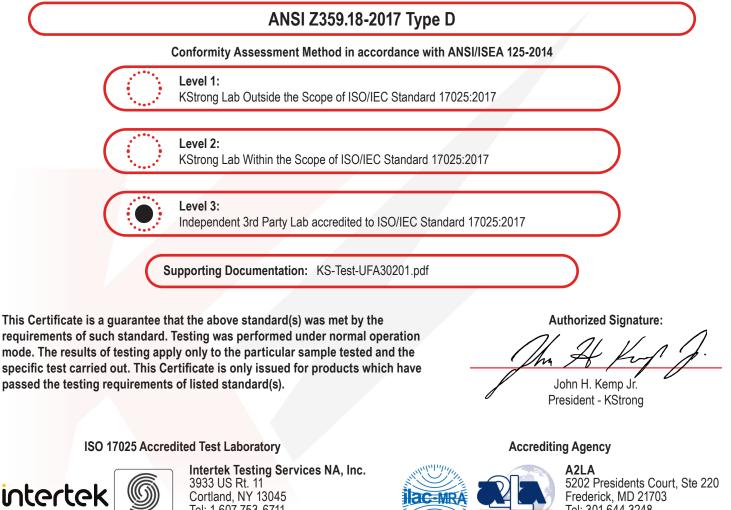
Description: KStrong® Swivel Anchor for SRL's Used on Standing Seam Metal Roof Deck (ANSI)

Brand Name: KStrong

Manufacturer: KStrong

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

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



Tel: 1 607-753-6711 www.intertek.com



Tel: 301.644.3248 info@A2LA.org

KStrong | 1-833-KSTRONG (578-7664) | www.KStrong.com

Additional Items Conforming Under this Declaration (If Applicable):



Intertek Testing Services NA Inc. 3933 US Route 11 Cortland, NY 13045 Phone: 607-753-6711 Fax: 607-756-4173

Test Verification of Conformity

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address	:	KStrong Inc. 150 N. Radnor Chester Road, Suite F200 Radnor, PA 19087, USA
Product(s) Tested	:	KStrong Inc. Type D Anchor
Model(s)	:	UFA30201 / UFA30211
Relevant Standard(s)/Specification(s)	:	ANSI Z359.18 – 2017 Safety Requirements for Anchorage Connectors for Active Fall Protection Systems
Verification Issuing Office Name & Address	:	Intertek Testing Service NA Inc. 3933 US Route 11 Cortland NY 13045
Date of Test(s)	:	7/21/21
Intertek Report Number:		104772378CRT-002
Verification/Original Report Number(s)	:	104772378CRT-001

NOTE : This verification is part of the full test report(s) and should be read in conjunction with it.

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Name: Matthew Stevens Position: Team Leader Date: 8/3/21



KSTRONG INC. TEST REPORT

SCOPE OF WORKs

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

REPORT NUMBER 104772378CRT-001

ISSUE DATE

7/23/21

PAGES

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TEST REPORT FOR KSTRONG INC.

Report No.: 104772378CRT-001 Date: July 23rd 2021

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

Report Number...... 104772378CRT-001

Original Report Number..... 104681912CRT-001

Signed Quote Number..... Qu-01195189-1

PO Number..... N/A

 Name of Testing Laboratory
 Intertek Testing Services NA Inc.

 Preparing the Report
 Intertek Testing Services NA Inc.

Test Specification:

Product Description:

Product Type: Type D Anchor

Brand Name: KStrong

Model Number(s): UFA30201 / UFA30211

Date(s) Samples Received7/6/21

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3933 US Route 11 Cortland, New York ,USA 13045 Telephone: 607-758-6246 Facsimile: NA www.intertek.com

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Design Requirements	3	PASS
Static Strength Test (UFA30211 Tested)	4.2.1.3	PASS
Serviceability Load – Type D (UFA30211 Tested)	4.2.4.3	PASS
Conditioning (pre-dynamic strength) Non Textile Abrasion	4.2.2.1.2	PASS
Dynamic Strength Test- Type D (UFA30201 Tested)	4.2.2.3.5	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:	Colin King	REVIEWED BY:	Matthew Stevens
TITLE:	Technical Writer	TITLE:	Team Leader
SIGNATURE:	Colin P. King	SIGNATURE	#H-J-
DATE	8/3/21	DATE:	8/3/21

Please see attached test data for details.

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
Х	Load Cell	Interface	L099	-	-	8/21/20	8/21/21
Х	Load Cell	Interface	G118	-	-	10/30/20	10/30/21
Х	Tape Measure	Stanley	H339	25'	-	5/10/21	5/10/22

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				
		T anchorage connector shall be closed eye	NA			
3.1.1		nnectors, anchorage connectors shall not rended for, or could be mistaken for, a	PASS			
	 D) Anchorage connectors that includ or other hardware covered by AN compiles with the requirements of 	PASS				
	 E) Multiple connection points shall a anchorage connectors. 	E) Multiple connection points shall only be permitted on tripod and davit style				
3.1.2	Anchorage connector surfaces that can come in contact with other components shall be free of burrs, pits, sharp corners and roughness that could accelerate cutting or abrading of the components.					
3.1.3.1	Corrosion Resistance: all hot-dip galvanized A123/A123M, standard specification for Zir steel products.	l steel shall conform with ASTM nc (hot-dip galvanized) Coatings on iron and	NA			
3.1.3.2.1	Type A and Type T: load bearing metallic m shall maintain adequate toughness at temp +130 degrees F (+54C) or be engineered to temperatures. Metallic components that ha ANSI Z359.12 are deemed to comply with t	NA				
3.1.3.2.2	Type D anchorage connectors shall be clear temperature of -10 degrees F (-23 C) if load specified in sections 3.1.3.2.2	NA				
3.1.3.2.3		Where a type D anchorage connector is allowed to be used in temperatures below -10 degrees F (-23 C), a qualified person shall verify the anchorage connector will perform				
3.1.3.3	Finishes: hardware finishes shall be clean a foreign material other than applied protect		PASS			

Date: August 3, 2021

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE			
3.1.3.4	Welded Assembly: When components are v D1.1 for steel, ANSI/AWS D1.2 for aluminur		PASS			
3.1.3.5	Fasteners: Manufacturer shall provide or sp anchorage connector to an anchorage in its included in the user instructions.	pecify fasteners for connecting an s intended application. Information must be	PASS			
3.1.4.1	synthetic material, having strength, aging, a	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				
3.1.4.2	 Stitching/Cutting: If a subsystem uses stitch components it shall meet the following req A) Use lock stitching B) Secure the end of threads by back methods. C) Threads used for sewing shall be of a quality comparable to that of D) Hot-cut or fuse thermoplastic ma fraying. E) The tread color or shade shall cor visual inspection. 	NA				
3.1.5.1	Other load bearing materials used in ancho performance requirements of ANSI Z359.18		PASS			
3.1.5.2	Integrally connected components to which exists shall meet the requirements of ANSI		PASS			

SECTION (TEST)	REQUIREMENT		RESULTS			COMPLIANCE
	Static St	rength Test for Type D Anchorage	Connectors:			
	A)	A new anchorage connector may	be used for eacl	n test.		
	B)	Test force shall be 5,000 pounds	(+50/-0)			
	C)	Install anchorage connector on the requirements of 4.1.2.	he test anchorag	e in accordan	ce with	
	D)	Apply load to the anchorage conspecified in 4.1.2.5.	nector in the dire	ection(s) of loa	ading	
	E)	Apply load at no greater than 2"/ at least 3 minutes.	min and maintai	n 5,000 poun	d test load for	
	F)	Release load				
	G)	Evaluate the test results per 3.2.2	1.1			
4211		Static Strength Requirements	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3	ΡΔςς
4.2.1.1						PASS
		rage resist the test load? rmation occurred did it create	Yes	Yes	Yes	
		han 1/8" (3mm) between gate and	I NA	NA	NA	
	body?					

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 lany anchorage connector to be loade instrumentation. 					
	C) Connect the other end of the tes 4.1.3	t lanyard to the	test weight sp	ecified in		
	D) Raise the test weight to achieve	a free-fall distan	ce of 3' (+0.1/	′-0).		
	E) Release the test weight by mean	s of quick releas	e mechanism.			
	F) Evaluate the test results per 3.2.	Evaluate the test results per 3.2.2.1				
4.2.2.1.2	Sample Pre Conditioning	SAMPLE:	SAMPLE:	SAMPLE:	PASS	
		4	5	6		
	Non-Textile- Connection point rotated on hardened steel hex bar for 50,000 cycles between 50-75 RMP?	YES	YES	YES		
	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					
		4	5	6		
	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	3467	3358	3425		

SECTION (TEST)	REQUIREMENT		RESULTS			
	 <u>Residual Dynamic Strength Test:</u> 1. Repetition of the test specified without further conditioning a 2. Must support the test weight a dynamic drop. 3. Evaluate the test results per 3 					
	Residual Dynamic Strength	SAMP 4	LE: SAMPI 5	E: SAMPLE: 6		
4.2.3.1	Anchorage connector successfully arrest the test weight?	st YES	S YES	YES	PASS	
	Maintain the test weight for a period o least 1 minute?	of at YES	YES	YES		
	If deformation occurred did it create more than 1/8" (3mm) between gate a body?	ind NA	NA	NA		
	MAF (Lbs.) Ref. Only	339	0 3384	3244		
3.2.1.1/4.2.4.3	A new anchorage connector may be used for each test. Test force shall be greater than twice the work load or 2,500 pounds (Whichever is Greater) Install anchorage connector on the test anchorage in accordance with requirements of 4.1.2. Apply load at no greater than 90lbs/min and maintain load for at least 3 minutes. 3 Release load Evaluate the test results per 3.2.4.2 Static Strength Requirements SAMPLE 3 SAMPLE 4 SAMPLE 5 Anchorage resist the test load? YES YES YES Cracking/Breaking or Deformation NO NO NO					

Date:	August	3,	2021
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SECTION	REQUIREMENT	RESULTS	COMPLIANCE			
(TEST)		RESOLIS				
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					
5.1.1	D) "ANSI Z359.18 and the type					
	E) Marking to indicate restrictions on direct	PASS				
	F) Where specified by the manufacturer, t		PASS			
	 G) An individual serial number or a lot or b traceability 	atch number that provides	PASS			
	H) Minimum breaking strength followed b	y "MBS"	PASS			
5.1.2	As required for the specific anchorage connector, in English on a label, marking or tag that is design anchorage connector and is permanently affixed	ed to last for the lifetime of the	PASS			
5.1.2.1	Anchorage connector that incorporates a closed I may be mistake for a connection point shall be pe not to connect a fall protection system or suspen when used in a cinching application.	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 num system.		PASS			
5.2	Instruction Requirements		PASS			
5.2.1	Instruction and information shall be provided in E connector.	nglish with each anchorage	PASS			
5.2.1.1	Overall: A) A) A statement that the anchorage connect with the requirements of ANSI/ASSE Z3 compliance and testing covers only the anchorage and substrate w=to which the Specifications for appropriate anchorage connector can be attached, including in the user is unable to determine whethe manufactures specification and instruct shall only be connected to anchorages to strengths are acceptable whe ii) Can withstand 5,000 pounds to strength are acceptable whe iii) Are certified by a professiona strength for fall arrest or trave imaterials including the minime	59.7, and caution that the ANSI hardware and does not extend to the le anchorage connector is attached. e(s) to which the anchorage structions on how to proceed when r the anchorage meets the ions that the anchorage connector that: without failure, except that lower n permitted by applicable legislation lengineer as having the required el restraint, as applicable le specifications of allowable shapes, sizes and geometry of the anchors connector may be minimum service temperature for 3.1.3.2.	PASS			

TEST REPORT FOR KSTRONG INC.

Date: August 3, 2021

SECTION		REQUIREMENT	RESULTS	COMPLIANCE
(TEST)				
5.2.1.1	G) Th H) Th i) Th J) Th de K) As be L) Sp co M) Ac ma N) As	fect its compatibility with ancho e manufacturer shall make ava isign of systems, such as AAF ar evice. statement that only one fall pro- e attached to an individual conn ecification providing the intend nnector complete list of the anchorage of anufacturer at the time of sale	load limit ge connectors construction lector and any other dimensions that may orages to which it may be connected. ilable upon request information for the id/or force vs. displacement curve(s) for the otection system or positioning system may	PASS
5.2.1.2	C) B) Th aff C) W us that an su D) Pe rev E) A v rov att F) W an	mpatibility with other fall prote e length of the anchorage conr fect its compatibility with anchor /here applicable, directions rega e with the anchorage connecto at it may add to the lanyard. (In chorage connector, manner of rface in the calculation of fall cl ermitted and forbidden uses, in commended ways of dealing wi warning to remove any surface ofing material, etc., that could a tached components	ector and any other dimensions that may orages to which it may be connected arding the appropriate length of lanyard to r to compensate for the additional length instructions to include the length of use and location relative to working	PASS
5.2.1.3	Inspection a A) Ins B) W ac C) Fie ho an Th the D) Th E) Ins su F) If a	nd Field Testing: structions on testing, if needed here applicable, directions for t oof testing upon installation. Di ceptable methods eld serviceability testing: The m ow often field load testing must ichorage connector continues to rese guidelines shall include rec e direction and point of applica ne recommended frequencies a aintenance, and when applicab structions for inspecting and se bjected to a fall or an inspectio applicable, guidelines for the re	nd procedures for inspection, le, testing rvicing an anchorage connector after it is	PASS

Date: August 3, 2021

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
	an unsafe condition H) The action to be taken after the a I) Criteria for removal of an anchora from its original installed configu		
5.2.1.4	Clinching and Non-Clinching Style A) Where the anchorage conne directions that the abrasion anchorage and the lead beau B) The proper method of instal applicable for non-clinching permitted between the conr	PASS	

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
104772378CRT-001	8/3/21	Original Report	Colin King	Matthew Stevens