

### **Declaration of Conformity**

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

Declaration #: DOC-UFS310018L Declaration Date: 12/08/2023

Item #: UFS310018L

Description: KStrong® BRUTE™ LE 18 ft. Cable SRL with swivel snap hook. Includes

installation carabiner and tagline (ANSI)

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

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

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 Z359.14-2021 Class 2

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-UFS310018L.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

ilac-MRA



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

**Accrediting Agency** 



## **Test Verification of Conformity**

Verification Number: 105663091CRT-004

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: Self-Retracting Device

Models/Type References: UFS310025L, UFS310050L, UFS310018L, UFS310080L, UFS480020L, UFS480050L,

UFS480025L, UFS480018L

Brand Name: KStrong INC

Relevant Standards: ANSI/ASSP Z359.14-2021

Verification Issuing Office

Name & Address:

Intertek Testing Services NA, Inc.

3933 US Rt-11 Cortland, NY 13045

USA

Date of Tests: 10/24/22 – 10/28/22

Test Report Number(s): 105663091CRT-003

Signature:

Name: Matthew Stevens
Position: Team Leader
Date: 12/08/2023





This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



# KSTRONG INC TEST REPORT

#### **SCOPE OF WORKs**

ANSI/ASSP Z359.14-2021 - SELF RETRACTING DEVICES

#### REPORT NUMBER

105663091CRT-003

#### **ORIGINAL REPORT NUMBER**

105376372CRT-009

#### **ISSUE DATE**

December 21, 2023

#### **PAGES**

9

#### **DOCUMENT CONTROL NUMBER**

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Report No.: 105663091CRT-003

Date: December 21, 2023

Address 3933 US rt. 11 Cortland, NY 13045

Telephone: 607-758-6246 www.intertek.com

KSTRONG Inc. 150 N. Radnor Chester RD. Suite F200 Radnor, PA 19087

USA	
Report Number:	105663091CRT-003
Signed Quote Number:	Qu-01405542
PO Number:	N/A
Name of Testing Laboratory Preparing the Report:	Intertek Testing Services NA Inc.
Test Specification:	
Standard::	ANSI/ASSP Z359.14-2021
Date(s) of Testing::	10/24/2022-10/28/2022
Product Description:	
Product Type::	Self-Retracting Lanyard
Brand Name::	KSTRONG INC
Model Number(s)::	UFS310025L, UFS310050L, UFS310018L, UFS310080L, UFS480020L, UFS480050L, UFS480025L, UFS480018L
Model Share::	N/A
Dates Samples Received:	9/26/2022

Date: December 21, 2023

#### **SECTION 1**

#### **SUMMARY OF TESTING**

TESTS COMPLETED	ANSI/ASSP Z359.14-2021 CLAUSE	STATUS
General Requirements	3.1	PASS
Markings and instructions/User inspection,	5.1, 5.2/6	PASS
Maintenance		
Static Strength Testing of SRD's	3.2.1/4.2.1	PASS
Dynamic Performance (ambient)	3.3/4.3.1	PASS
Dynamic Performance (LE) (ambient)	3.3.3/4.3.3	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:	Alex Smith	REVIEWED BY:	Matthew Stevens
TITLE:	Technician	TITLE:	Team Leader
SIGNATURE:	ales Smith	SIGNATURE	12/21/2023
DATE	12/21/2023	DATE:	12/21/2023

Please see attached test data for details.

Date: December 21, 2023

#### **SECTION 3**

#### **TESTING EQUIPMENT CALIBRATION INFORMATION**

USED FOR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
X	Test Weight	NA	NA	310 lbs	-	VBU	VBU
X	Load Cell	PCB	N1392	-	-	8/30/22	8/23/2023
X	Tape Measure	Kobalt	H422	25'	-	5/13/2022	5/13/2023
X	Load Cell	Interface	L099	-	-	11/11/2021	11/11/2022

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#### **SECTION 4**

Section	Requirement		Results				Compliance	
(Test)								
3	"Marking and Instructions"							
5.1.1	Shall be in English						PASS	
5.1.3	Self-Retracting Devices shall be marked with the following:							
	Marking	Comment	S	YES	NO	NA		
	Part number and model designation			Х				
	Year of manufacture			Х				
	Manufacturer's name or logo			Х				
	Capacity Range			X				
	Unique ID Number			X				
	Standard Number (Z359.14)			X				
	How to inspect the visual indicator			Х				
	Warning to follow the manufacturer's							
	instructions included with the equipment			X				
	at time of shipment from the manufacturer							
	Warning of the need for inspection in							
	accordance with the manufacturer's			X				
	instructions							
	The fiber or other materials used in the			l x			PASS	
	lanyard construction						FA33	
	The lanyard working length			X				
	Average arresting force for the SRD class			X				
	Arresting distance			X				
	Proper installation means			Х				
	Warning on the need for testing the device			x				
	for locking and retraction before each use							
	SRD class and arrest distance			X				
	Warning of the need to avoid lanyard							
	contact with sharp edges and abrasive			X				
	surfaces (not required for LE devices)							
	Free fall limit			X				
	Suitability for use with horizontal lifelines	1				Х		
	Suitability for horizontal use					Х		
	Suitability for Leading Edge capability			Х				
5.2.1	Instructions shall be in English, and affixed to	the						
	equipment at time of shipment from the manufacturer						PASS	

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Section		Results				
(Test)	Requirement					Compliance
5.2.2						
	Instructions shall contain the following inform					
	Instructions	Comments	YES	NO	NA	
	A statement that the manufacturer's		X			
	instructions shall be provided to the users					
	Manufacturers name, address, and		X			
	telephone number			+		
	Manufacturer's part number and model		X			
	designation for the equipment			+		
	Intended use and purpose of the		X			
	equipment	+				
	Proper method of use and limitations on		X			
	use of the equipment	+	+			
	Illustrations showing locations of markings		X			
	on the equipment					
	Reproduction of printed information on all		X			
	markings					
	Inspection procedures required to assure					
	the equipment is in serviceable condition		X			PASS
	and operating correctly					
	Anchorage requirements		X			
	Criteria for discarding equipment which		X			
	fails inspection					
	Procedures for cleaning. maintenance, and		X			
	storage					
	Reference to Z359 standards		X			
	Proper installation means and limitations		Х			
	on the type of anchorage connectors used					
	The fiber or other materials used in the		X			
	lanyard construction					
	The lanyard length		X			
	The average arresting force when		V			
	dynamically tested in accordance with the requirements of the standard		X			
	SRD class and arrest distance when	+				
	dynamically tested in accordance with the		X			
	requirements of the standard		^			
	How to determine fall clearance		Х			
	Testing the device for locking before each		^			
	use		Х			
5.2.3	Instructions shall require that only the equipm	nent				
3.2.3	manufacturer, or persons or entities authorize					
	writing by the manufacturer, shall make repair					PASS
	the equipment					
5.2.4	Instructions shall require the user to remove					
	equipment from service if it has been subjected	ed to				PASS
	the forces of arresting a fall or affecting a resc					
5.2.5	Instructions shall require the user to have a w					
- ·· <del>·</del>	rescue plan and the means at hand to implem					PASS
	when using the equipment					

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Section (Test)	Requirement	Results				Compliance
5.2.6	Instructions shall provide warnings regarding:  Warnings	Comments	YES	NO	NA	
	Altering the equipment  Misusing the equipment		X	X		
	Using combinations of components or sub- systems, or both, which may affect or interfere with the safe function of each other		Х			
	Exposing the equipment to chemicals, high heat, severe cold, or other harsh environments which may produce a harmful effect and to consult the manufacturer in case of doubt		х			PASS
	Using the equipment around moving machinery and electrical hazards		х			
	Using the equipment near sharp edges or abrasive surfaces		Х			
	Risk of striking an object or obstruction during a swing fall		Х			
	That the consequences of improperly using the device, not following instructions or markings may cause serious injury or death		Х			
6	User Inspection, Maintenance and Storage of	Equipment			_	PASS

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#### **SUPPLEMENTAL TEST DATA**

Section (Test)	Requirement	Results				Compliance
3.2.1/4. 2.1						
	Static Strength: (ambient) shall withstand 3,600 lbs. when tested to:		Sample: 1	Sample: 2	Sample: 3	
	- apply a 3,600 lbs ,(+60/-0 lbs) load and maintain for 1-minute to the point of SRL line connection to the SRL drum (across the	Withstand load?	YES	YES	YES	PASS
	device)					

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tion	Requirement	Results			Compliano
st)	Danagasia Danfannaan aan "ANADIENIT"				
/4.3.	<b>Dynamic Performance</b> : "AMBIENT"				
	1. connect 310 lb. weight				
	<ol> <li>extract enough line for a 36-ir</li> </ol>	nch free fall per Fig 5 i	n Test Standard.		
	<ol><li>release the test weight</li></ol>				
	4. Max Arrest distance shall not	exceed 42 inches.			
		Canada	Committee	Committee	
		Sample: 1	Sample: 2	Sample: 3	
	Conditioning in: (Ambient)		2	3	
	SN or ID:	4	5	6	
	Payout and retract the line				
	per 3.3.1.2 following test	YES	YES	YES	
	Lock function shall operate	VEC	\/	VEC.	
	per 3.3.1.1	YES	YES	YES	
	Visual indicator shall activate	YES	YES	YES	
	Max. Arrest Force: (lbs.)	897	569	807	
	Class 1 & 2 < 1,800 lbs.		303	507	
	Avg Arrest Force (lbs.):	615	532	623	
	Class 1 & 2 < 1,350 lbs.				
	Distance Initial (in): D1	83 ¼	83 ¼	83 ¼	
	D: . F: 1/: \ D2		1001/		
	Distance Final (in): D2	113 ½	108 ½	114	
	Arrest Distance (in): D2-D1	113 ½		114	PASS
			108 ½ 25 ¼		PASS
	Arrest Distance (in): D2-D1	113 ½		114	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches	113 ½	25 ¼	114 30 ¾	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches  Retraction Strength: The weight of the	113 ½ 30 ¼ line constituent, shal	25 ¼ I not be less than 1.25 lb	114 30 ¾ os. (5.55N) or more than	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches  Retraction Strength: The weight of the 25 lbs. (111.1N) at any point in the of re	113 ½ 30 ¼ line constituent, shal	25 ¼ I not be less than 1.25 lb	114 30 ¾ os. (5.55N) or more than	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches  Retraction Strength: The weight of the	113 ½ 30 ¼ line constituent, shal	25 ¼ I not be less than 1.25 lb	114 30 ¾ os. (5.55N) or more than	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches  Retraction Strength: The weight of the 25 lbs. (111.1N) at any point in the of re	113 ½ 30 ¼ line constituent, shal	25 ¼ I not be less than 1.25 lb	114 30 ¾ os. (5.55N) or more than	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches  Retraction Strength: The weight of the 25 lbs. (111.1N) at any point in the of reaccordance with 4.5.1.	113 ½ 30 ¼ line constituent, shal	25 ¼ I not be less than 1.25 lk ded by the line constitue	30 ¾ os. (5.55N) or more than ent when tested in	PASS
	Arrest Distance (in): D2-D1 Class 1&2 < 42-inches  Retraction Strength: The weight of the 25 lbs. (111.1N) at any point in the of reaccordance with 4.5.1.  Retraction	113 ½ 30 ¼  line constituent, shal ange of motion providence Sample 1	25 ¼ I not be less than 1.25 ltded by the line constitue Sample 2	30 ¾  os. (5.55N) or more than ent when tested in  Sample 3	PASS

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#### **SECTION** Compliance **REQUIREMENT RESULTS** (TEST) **DYNAMIC PERFORMANCE: "AMBIENT"** 5. Connect 310 lb. weight Drop test weight from a level 5 feet +/- 1 inch 7. Allow weight to swing unrestrained for a period of not less than 10 seconds Record the maximum and average arresting forces 8. Line must retain 1,000 lb. static load after drops **SAMPLE: SAMPLE:** SAMPLE: **SRL Line Orientation: Perpendicular** 4 5 6 Conditioning in: (4 hrs min) 24 Hr. 24 Hr. 24 Hr. Lock function shall operate per 3.1.2 YES YES YES Visual indicator shall activate YES YES YES Max. Arrest Force: (lbs.) 1332 1114 1242 Class A & B < 1,800 lbs. Avg Arrest Force (lbs.): Class A <1,350 lbs. 839 797 918 Class B < 900 lbs. Arrest Distance (in): 157 ½ 157 ½ 157 ½ 3.3.3/ **PASS** Retain a minimum of 1,000 lbs of 4.3.3 residual tensile strength following the YES YES YES test SAMPLE: SAMPLE: **SAMPLE: SRL LINE ORIENTATION: 5' OFFSET** 8 9 7 Conditioning in: (4 hrs min) 24 Hr. 24 Hr. 24 Hr. Lock function shall operate per 3.1.2 YES YES YES Visual indicator shall activate YES YES YES Max. Arrest Force: (lbs.) 1108 1202 1131 Class A & B < 1,800 lbs. Avg Arrest Force (lbs.): Class A <1,350 lbs. 849 796 819 Class B < 900 lbs. Arrest Distance (in): 157 ½ 157 ½ 157 ½ Retain a minimum of 1,000 lbs of residual tensile strength following the YES YES YES test

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**SECTION 5** 

#### **REVISION HISTORY**

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105209482CRT-001	10/28/2022	Original Report	Steve Morey	Matthew Stevens
105376372CRT-009	3/27/2023	Report Revision	Alex Smith	Matthew Stevens
105663091CRT-003	12/08/2023	Report Revision: Added Model & Picture	Alex Smith	Matthew Stevens
105663091CRT-003	12/08/2023	Updated Page 4: (Yes) suitable for LE	Alex Smith	Matthew Stevens

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**SECTION 6** 

#### **PHOTOGRAPH**

#### UFS480018L

