

Declaration of Conformity

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

Declaration #: DOC-UFS570060

Declaration Date: 11/16/2023

Item #: UFS570060

Description: KStrong® BRUTE™ Sealed 60 ft. SRL with stainless steel cable and stainless steel swivel snap hook. Includes stainless steel 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 1 and IP68

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-UFS570060.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

TEST REPORT

No: 56274

Client	Kstrong Inc 150 N Radnor Chester Road Suite f 200 Radnor PA19087 USA
Client contact	Mr John Kemp
Item/s tested	Retractable Fall Arresters Models: UFS570060 Rated: IP68
Sample/s tested / Condition	One of each / Good condition
Tested to	All relevant clauses of BS EN 60529: 1992 +A2: 2013 (IP68) and deemed to comply
Date sample received	19 th August 2020
Test period	7 th to 10 th September 2020
Date of Issue	20 th April 2022
Tests carried out at	20 ± 5 °C
Testing Officer	 _____ <i>Bunmi Phillips</i>
Verified by	 _____ <i>Stuart Mann</i>

**Registered Address:**
Eurofins Electrical & Electronic UK London Ltd
i54 Business Park, Valiant Way
Wolverhampton, WV9 5GB, UKRegistered in England and Wales
Company Reg. No. 03270900
VAT Reg. No. GB 887 127 683

Report No:	56274
Client:	Kstrong Inc

THIS REPORT APPLIES ONLY TO THE PARTICULAR SAMPLE UNIT(S) TESTED AND TO THE SPECIFIC TESTS CARRIED OUT AS DETAILED IN THE PROJECT FILE HELD AT EUROFINS E&E.

THIS REPORT DOES NOT COVER ELECTROMAGNETIC COMPATIBILITY.

IT SHOULD BE NOTED THAT ONLY A LIMITED NUMBER OF UNITS HAVE BEEN TESTED. IT IS THEREFORE ESSENTIAL FOR THE MANUFACTURER OR SUPPLIER OF THIS PRODUCT TO ENSURE THAT THE QUALITY OF ALL PRODUCTION UNITS IS TO THE SAME STANDARDS AS THAT OF THE SAMPLE (S) CHECKED.

UNLESS OTHERWISE DEFINED IN THIS TEST REPORT THE DECISION RULE APPLIED TO ALL TEST RESULTS IS A 'CONSTRAINED SIMPLE ACCEPTANCE' PASS/FAIL CRITERIA AS DEFINED IN IEC GUIDE 115, CLAUSE 4.4.2 PROCEDURE 1, WHICH TAKES INTO ACCOUNT A CONFIDENCE LEVEL OF 95% (K=2) AND FALSE ACCEPTANCE OF 2.5%.

SUMMARY

The sample unit submitted for testing has been checked in accordance with the relevant clauses of:

BS EN 60529: 1992 +A2: 2013

- 13 *Tests for protection against solid foreign objects indicated by the first characteristic numeral (IP6X)*
- 14 *Tests for protection against water indicated by the second characteristic numeral (IPX8)*

As a result of the above tests, the unit can be considered to comply in respect of the above Clauses

Condition / number of test sample : Good / 1 **Serial Number(s) :-** None

Notes relating to this report : - None

Project History: -

<u>Job Number</u>	<u>Sample received</u>	<u>Job Completion Date</u>	<u>Summary of work carried out</u>
54373	19 Aug-20	10-Sept-20	IP68 test only
56274	-	12-April-22	Client address change and model name change from SLBL60FT to UFS570060

----- End of Report -----

Test Verification of Conformity

Verification Number: 105631057CRT-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: Self-Retracting Device

Models/Type References: UFS570025R, UFS570030R, UFS570050R, UFS570060R, UFS570080R, UFS5700100R
Shared Model: UFS570025, UFS570030, UFS570050, UFS570060, UFS570080, UFS570100

Brand Name: KStrong INC.

Relevant Standards: ANSI Z359.14-2021

Verification Issuing Office Name & Address: Intertek Testing Services NA, Inc.
3933 US Rt-11
Cortland, NY 13045
USA

Date of Tests: 04/25/2023 – 04/26/2023

Test Report Number(s): 105631057CRT-001

Signature:



Name:

Matthew Stevens

Position:

Team Leader

Date:

11/16/2023



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

105631057CRT-001

ORIGINAL REPORT NUMBER

105415277CRT-001

ISSUE DATE

November 16, 2023

PAGES

9

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Address
3933 US rt. 11 Cortland, NY
13045

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

TEST REPORT FOR KSTRONG INC.

Report No.: 105631057CRT-001

Date: November 16, 2023

KStrong Inc. 150 N. Radnor Chester Rd. Suite F200 Radnor, PA 19087 USA	
Report Number..... :	105631057CRT-001
Signed Quote Number..... :	Qu-01400876
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..... :	4/25/2023 – 4/26/2023
Product Description:	
Product Type:	Self-Retracting Device
Brand Name:..... :	KStrong
Model Number(s):..... :	UFS570025R, UFS570030R, UFS570050R, UFS570060R, UFS570080R, UFS5700100R Shared Model: UFS570025, UFS570030, UFS570050, UFS570060, UFS570080, UFS570100
Model Share:.....:	N/A
Dates Samples Received:	4/17/2023

This report 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 report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. 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 results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Date: November 16, 2023

SECTION 1**SUMMARY OF TESTING**

TESTS COMPLETED	TEST DATE	ANSI/ASSP Z359.14-2021 CLAUSE	STATUS
General Requirements	4/25/23	3.1/3.1.2/3.1.3/3.1.4	PASS
Static Strength Testing of SRD's	4/25/23	3.2.1/4.2.1	PASS
Dynamic Performance (ambient)	4/25/23	3.3/4.3.1	PASS
Energy Capacity (Rotary Break Only)	4/25/23	3.4/4.4	PASS
Markings and instructions/User inspection, Maintenance	4/25/23	5.1/5.2/6	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:		SIGNATURE	
DATE	11/09/2023	DATE:	11/16/2023

Please see attached test data for details.

Date: November 16, 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	8/30/23
X	Tape Measure	Kobalt	H422	25'	-	5/13/22	5/13/23
X	Load Cell	Interface	L099	-	-	2/14/23	2/14/24

SECTION 4**SUPPLEMENTAL TEST DATA**

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

Date: November 16, 2023

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

Date: November 16, 2023

Section (Test)	Requirement	Results				Compliance
5.2.6	Instructions shall provide warnings regarding:					PASS
	Warnings	Comments	YES	NO	NA	
	Altering the equipment		X			
	Misusing the equipment		X			
	Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other		X			
	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		X			
	Using the equipment around moving machinery and electrical hazards		X			
	Using the equipment near sharp edges or abrasive surfaces		X			
	Risk of striking an object or obstruction during a swing fall		X			
	That the consequences of improperly using the device, not following instructions or markings may cause serious injury or death		X			

Section (Test)	Requirement	Results				Compliance
3.2.1/4.2.1	<u>Line Constituent of Self Retracting Devices :</u> (Webbing or Wire Rope) *Supply Line only – 5' Sections terminated on both ends*					PASS
		Sample ID	1	2	3	
		Class 1/2	Class 1	Class 1	Class 1	
		Broke At	4950 lbf.	4910 lbf.	4865 lbf.	

Date: November 16, 2023

Section (Test)	Requirement	Results	Compliance																																												
3.2.1/4.2.1	<p>Static Strength: (ambient) shall withstand 3,000 lbs. when tested to:</p> <ul style="list-style-type: none"> - apply a 3,000 lbs. (+60/-0 lbs) load and maintain for 1-minute to the point of SRL line connection to the SRL drum (across the device) 	<table> <tr> <th></th><th>Sample: 1</th><th>Sample: 2</th><th>Sample: 3</th></tr> <tr> <td>Withstand load</td><td>YES</td><td>YES</td><td>YES</td></tr> </table>		Sample: 1	Sample: 2	Sample: 3	Withstand load	YES	YES	YES	PASS																																				
	Sample: 1	Sample: 2	Sample: 3																																												
Withstand load	YES	YES	YES																																												
3.3/4.3.1	<p>Dynamic Performance: "AMBIENT"</p> <ol style="list-style-type: none"> 1. connect 310 lb. weight 2. extract enough line for a 36-inch free fall per Fig 5 in Test Standard. 3. release the test weight 4. Max Arrest distance shall not exceed 42 inches. <table> <tr> <th></th><th>Sample: 4</th><th>Sample: 5</th><th>Sample: 6</th></tr> <tr> <td>Conditioning in:</td><td></td><td></td><td></td></tr> <tr> <td>SN or ID:</td><td>4</td><td>5</td><td>6</td></tr> <tr> <td>Payout and retract the line per 3.3.1.2 following test</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr> <td>Lock function shall operate per 3.3.1.1</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr> <td>Visual indicator shall activate</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr> <td>Max. Arrest Force: (lbs.) Class 1 & 2 < 1,800 lbs.</td><td>794</td><td>813</td><td>802</td></tr> <tr> <td>Avg Arrest Force (lbs.): Class 1 < 1,350 lbs. Class 2 < 900 lbs.</td><td>665</td><td>676</td><td>609</td></tr> <tr> <td>Distance Initial (in): D1</td><td>55"</td><td>55"</td><td>55"</td></tr> <tr> <td>Distance Final (in): D2</td><td>66"</td><td>63 ½"</td><td>60 ¼"</td></tr> <tr> <td>Arrest Distance (in): D2-D1 < 42 Inches</td><td>11"</td><td>8 ½"</td><td>5 ¼"</td></tr> </table>			Sample: 4	Sample: 5	Sample: 6	Conditioning in:				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 per 3.3.1.1	YES	YES	YES	Visual indicator shall activate	YES	YES	YES	Max. Arrest Force: (lbs.) Class 1 & 2 < 1,800 lbs.	794	813	802	Avg Arrest Force (lbs.): Class 1 < 1,350 lbs. Class 2 < 900 lbs.	665	676	609	Distance Initial (in): D1	55"	55"	55"	Distance Final (in): D2	66"	63 ½"	60 ¼"	Arrest Distance (in): D2-D1 < 42 Inches	11"	8 ½"	5 ¼"	PASS
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Date: November 16, 2023

Section (Test)	Requirement	Results	Compliance												
3.3/4.4	Energy Capacity (Rotary Brake Only) "AMBIENT" <ol style="list-style-type: none"> Shorten the line so that retractable length is 42 inches. connect 310 lb. weight Hoist the weight so that 36 inches is extended from the nozzle. Clamp off 36-inch point so it cannot retract. Raise the weight so that there is a 24-inch free fall release the test weight <table border="1"> <thead> <tr> <th></th><th>Sample: 7</th><th>Sample: 8</th><th>Sample: 9</th></tr> </thead> <tbody> <tr> <td>Max. Arrest Force: (lbs.) Class 1 & 2 < 1,800 lbs.</td><td>1198</td><td>1306</td><td>1391</td></tr> <tr> <td>Avg Arrest Force (lbs.): Class 1 <1,350 lbs. Class 2 < 900 lbs.</td><td>715</td><td>751</td><td>800</td></tr> </tbody> </table>		Sample: 7	Sample: 8	Sample: 9	Max. Arrest Force: (lbs.) Class 1 & 2 < 1,800 lbs.	1198	1306	1391	Avg Arrest Force (lbs.): Class 1 <1,350 lbs. Class 2 < 900 lbs.	715	751	800		PASS
	Sample: 7	Sample: 8	Sample: 9												
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SECTION 5**REVISION HISTORY**

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105415277CRT-001	4/26/2023	Original Report	Alex Smith	Matthew Stevens
105631057CRT-001	11/16/2023	Report Extension	Alex Smith	Matthew Stevens

SECTION 6

PHOTOGRAPHS

