

Declaration of Conformity

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

Declaration #: DOC-UFS351102

Declaration Date: 01/31/2024

Item #: UFS351102

Description: KStrong® Micron™ 6 ft. SRL with Aluminum Swivel Carabiner (ANSI) - Installation carabiner included

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

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-UFS351102.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: 105713099CRT-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: UFS359002, UFS351102, UFS350002, UFS354002, UFS356002, UFS359506

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: 04/11/2023 – 04/12/2023

Test Report Number(s): 105713099CRT-001

Signature:



Name:
Position:
Date:

Matthew Stevens
Team Leader
01/31/2024



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KSTRONG INC.

TEST REPORT

SCOPE OF WORKS

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

REPORT NUMBER

105713099CRT-001

ORIGINAL REPORT NUMBER

105395925CRT-001

ISSUE DATE

January 31, 2024

PAGES

11

DOCUMENT CONTROL NUMBER

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Address
3933 US rt. 11 Cortland, NY
13045

TEST REPORT FOR KSTRONG INC.

Report No.: 105713099CRT-001
Date: January 31, 2024

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

KStrong Inc. 150 N. Radnor Chester Rd. Suite F200 Radnor, PA 19087 USA	
Report Number	105713099CRT-001
Signed Quote Number	Qu-01419599
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	4/11/2023 & 4/12/2023
Product Description:	
Product Type	Self-Retracting Device
Brand Name	KStrong
Model Number(s)	UFS359002, UFS351102
Model Share	UFS350002, UFS354002, UFS356002, UFS359506
Dates Samples Received:	03/24/2023

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.

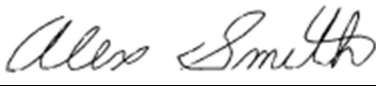

Date: January 31, 2024

SECTION 1
SUMMARY OF TESTING

TESTS COMPLETED	TEST DATE	ANSI/ASSP Z359.14-2021 CLAUSE	STATUS
General Requirements	3/14/22	3.1 Report #: 104972900CRT-001	PASS
Markings and instructions/User inspection, Maintenance	3/14/22	5.1, 5.2/6 Report #: 104972900CRT-001	PASS
Line Constituent of Self Retracting Devices (Webbing or Wire Rope)	3/21/22	3.1.6/7. 1, 7. 2, or 7. 3 Report #: 104972900CRT-001	PASS
Static Strength Testing of SRD's	3/21/22	3.2.1/4.2.1 Report #: 104972900CRT-001	PASS
Dynamic Performance (ambient)	3/21/22	3.3/4.3.1 Report #: 104972900CRT-001	PASS
SRL-P Wrap around Static Strength	4/12/23	3.6.3 / 4.6.3	PASS
SLR-P Additional Dynamic Performance (ambient)	4/11/23	3.3.2 / 4.3.1	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	01/31/2024	DATE:	01/31/2024

Please see attached test data for details

Date: January 31, 2024

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	-	-	7/22/21	7/22/22
X	Tape Measure	Stanley	H339	25'	-	5/10/21	5/10/22
X	Load Cell	Interface	L099	-	-	5/10/21	5/10/22

SECTION 4

TEST DATA

Section (Test)	Requirement	Results	Compliance																																																																																																														
3	"Marking and Instructions"																																																																																																																
5.1.1	Shall be in English		PASS																																																																																																														
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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

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	<p>Line Constituent of Self Retracting Devices :</p> <p>(Webbing or Wire Rope) *Supply Line only – 5’ Sections terminated on both ends*</p>	<table border="1"> <thead> <tr> <th>Sample ID</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>Class 1/2</td> <td>Class 1</td> <td>Class 1</td> <td>Class 1</td> </tr> <tr> <td>Broke At</td> <td>5414 lbf.</td> <td>5582 lbf</td> <td>6123 lbf.</td> </tr> </tbody> </table>	Sample ID	1	2	3	Class 1/2	Class 1	Class 1	Class 1	Broke At	5414 lbf.	5582 lbf	6123 lbf.	PASS
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Section (Test)	Requirement	Results	Compliance																																												
3.2.1/4.2.1	<p>Static Strength: (ambient) shall withstand 3,000 lbs. when tested to: - 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)</p>	<table border="1"> <thead> <tr> <th></th> <th>Sample: 1</th> <th>Sample: 2</th> <th>Sample: 3</th> </tr> </thead> <tbody> <tr> <td>Withstand load</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table>		Sample: 1	Sample: 2	Sample: 3	Withstand load	YES	YES	YES	PASS																																				
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3.3/4.3.1	<p>Dynamic Performance: "AMBIENT"</p> <ol style="list-style-type: none"> connect 310 lb. weight extract enough line for a 36-inch free fall per Fig 5 in Test Standard. release the test weight Max Arrest distance shall not exceed 42 inches. 	<table border="1"> <thead> <tr> <th></th> <th>Sample: 4</th> <th>Sample: 5</th> <th>Sample: 6</th> </tr> </thead> <tbody> <tr> <td>Conditioning in:</td> <td>NA</td> <td>NA</td> <td>NA</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 A & B < 1,800 lbs.</td> <td>970</td> <td>991</td> <td>1039</td> </tr> <tr> <td>Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.</td> <td>719</td> <td>735</td> <td>738</td> </tr> <tr> <td>Distance Initial (in): D1</td> <td>47"</td> <td>47"</td> <td>47"</td> </tr> <tr> <td>Distance Final (in): D2</td> <td>76"</td> <td>73"</td> <td>74"</td> </tr> <tr> <td>Arrest Distance (in): D2-D1 < 42 Inches</td> <td>29"</td> <td>26"</td> <td>27"</td> </tr> </tbody> </table>		Sample: 4	Sample: 5	Sample: 6	Conditioning in:	NA	NA	NA	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 A & B < 1,800 lbs.	970	991	1039	Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.	719	735	738	Distance Initial (in): D1	47"	47"	47"	Distance Final (in): D2	76"	73"	74"	Arrest Distance (in): D2-D1 < 42 Inches	29"	26"	27"	PASS
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3.6.3/4.6.3	<p>Wrap-Around Strength (P-SRL) Static Strength: (ambient) shall withstand 3,600 lbs. when tested to: - apply a 3,600 lbs ,load and maintain for 1-minute to the point of SRL line connection to the SRL drum (across the device)</p>	<table border="1"> <thead> <tr> <th data-bbox="743 434 946 495"></th> <th data-bbox="946 434 1089 495">Sample: 1</th> <th data-bbox="1089 434 1247 495">Sample: 2</th> <th data-bbox="1247 434 1388 495">Sample: 3</th> </tr> </thead> <tbody> <tr> <td data-bbox="743 495 946 606">Withstand load</td> <td data-bbox="946 495 1089 606">YES</td> <td data-bbox="1089 495 1247 606">YES</td> <td data-bbox="1247 495 1388 606">YES</td> </tr> </tbody> </table>		Sample: 1	Sample: 2	Sample: 3	Withstand load	YES	YES	YES	PASS																																				
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3.3.2/4.3.1	<p>SLR-P Additional Dynamic Performance: "AMBIENT"</p> <ol style="list-style-type: none"> connect 310 lb. weight extract enough line for a 36-inch free fall per Fig 5 in Test Standard. release the test weight Max Arrest distance shall not exceed 42 inches. <table border="1"> <thead> <tr> <th data-bbox="332 989 652 1050"></th> <th data-bbox="652 989 888 1050">Sample: 4</th> <th data-bbox="888 989 1123 1050">Sample: 5</th> <th data-bbox="1123 989 1359 1050">Sample: 6</th> </tr> </thead> <tbody> <tr> <td data-bbox="332 1050 652 1079">Conditioning in:</td> <td data-bbox="652 1050 888 1079">NA</td> <td data-bbox="888 1050 1123 1079">NA</td> <td data-bbox="1123 1050 1359 1079">NA</td> </tr> <tr> <td data-bbox="332 1079 652 1108">SN or ID:</td> <td data-bbox="652 1079 888 1108">4</td> <td data-bbox="888 1079 1123 1108">5</td> <td data-bbox="1123 1079 1359 1108">6</td> </tr> <tr> <td data-bbox="332 1108 652 1169">Payout and retract the line per 3.3.1.2 following test</td> <td data-bbox="652 1108 888 1169">YES</td> <td data-bbox="888 1108 1123 1169">YES</td> <td data-bbox="1123 1108 1359 1169">YES</td> </tr> <tr> <td data-bbox="332 1169 652 1230">Lock function shall operate per 3.3.1.1</td> <td data-bbox="652 1169 888 1230">YES</td> <td data-bbox="888 1169 1123 1230">YES</td> <td data-bbox="1123 1169 1359 1230">YES</td> </tr> <tr> <td data-bbox="332 1230 652 1257">Visual indicator shall activate</td> <td data-bbox="652 1230 888 1257">YES</td> <td data-bbox="888 1230 1123 1257">YES</td> <td data-bbox="1123 1230 1359 1257">YES</td> </tr> <tr> <td data-bbox="332 1257 652 1318">Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.</td> <td data-bbox="652 1257 888 1318">1154</td> <td data-bbox="888 1257 1123 1318">1091</td> <td data-bbox="1123 1257 1359 1318">1109</td> </tr> <tr> <td data-bbox="332 1318 652 1404">Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.</td> <td data-bbox="652 1318 888 1404">795</td> <td data-bbox="888 1318 1123 1404">797</td> <td data-bbox="1123 1318 1359 1404">776</td> </tr> <tr> <td data-bbox="332 1404 652 1434">Distance Initial (in): D1</td> <td data-bbox="652 1404 888 1434">54"</td> <td data-bbox="888 1404 1123 1434">54"</td> <td data-bbox="1123 1404 1359 1434">54"</td> </tr> <tr> <td data-bbox="332 1434 652 1463">Distance Final (in): D2</td> <td data-bbox="652 1434 888 1463">68 ½"</td> <td data-bbox="888 1434 1123 1463">69 ½"</td> <td data-bbox="1123 1434 1359 1463">69 ¼"</td> </tr> <tr> <td data-bbox="332 1463 652 1524">Arrest Distance (in): D2-D1 < 42 Inches</td> <td data-bbox="652 1463 888 1524">14 ½"</td> <td data-bbox="888 1463 1123 1524">15 ½"</td> <td data-bbox="1123 1463 1359 1524">15 ¼"</td> </tr> </tbody> </table>			Sample: 4	Sample: 5	Sample: 6	Conditioning in:	NA	NA	NA	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 A & B < 1,800 lbs.	1154	1091	1109	Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.	795	797	776	Distance Initial (in): D1	54"	54"	54"	Distance Final (in): D2	68 ½"	69 ½"	69 ¼"	Arrest Distance (in): D2-D1 < 42 Inches	14 ½"	15 ½"	15 ¼"	PASS
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SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
10539525CRT-001	04/19/2023	Original Report	Alex Smith	Matthew Stevens
105713099CRT-001	01/31/2024	Report Extension	Alex Smith	Matthew Stevens

SECTION 6
Photographs

UFS350002



UFS351102



UFS354002



SECTION 6
Photographs

UFS356002



UFS359002

