Declaration of Conformity

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

Declaration #: DOC-UFS570060
Declaration Date: 04/20/2022

Item #: UFS570060

Description: KStrong® BRUTE™ Sealed 60 ft. SRL Class B with Stainless Steel Cable and Aluminum Swivel Carabiner Hook. Includes Aluminum Installation Carabiner and Tagline (ANSI)

Brand Name: KStrong

Manufacturer: KStrong

Address: 18505 Intercontinental Crossing, Houston, TX 77073

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 Z359.14-2014 Class B and IP68 Level of IEC 60529

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-ClassB.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

eurofins | E&E London

Eurofins E&E London
15 Chelsea Fields Estate,
Western Road,
London, SW19 2QA
United Kingdom

+44 (0) 20 8646 8383
info@nemko.co.uk
www.nemko.co.uk

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	19th August 2020
Test period	7th to 10th September 2020
Date of Issue	20th April 2022
Tests carried out at	20 ± 5 º C
Testing Officer	*Bunmi Phillips*
Verified by	*Stuart Mann*

eurofins | E&E London

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 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: -

Job Number	*Sample received*	*Job Completion Date*	*Summary of work carried out*
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 ----------

intertek
Total Quality. Assured.

KSTRONG INC

TEST REPORT

SCOPE OF WORK
ANSI/ASSP Z359.14-2014 – SELF RETRACTING DEVICES

REPORT NUMBER
105057246CRT-003

ISSUE DATE
May 16, 2022

PAGES
11

DOCUMENT CONTROL NUMBER
GFT-OP-10a (6-March-2017)

Address
3933 US rt. 11 Cortland, NY 13045

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

TEST REPORT FOR KSTRONG INC

Report No.: 105057246CRT-003
Date: May 16, 2022

KStrong INC
150 N. Radnor Chester Rd.
Suite F200
Radnor, PA 19087
USA

Report Number..... 105057246CRT-003

Associated Report Number. 104581650CRT-001

Signed Quote Number..... Qu-01253758-0

PO Number.....**:** N/A

Name of Testing Laboratory Preparing the Report ..... Intertek Testing Services NA Inc.

Test Specification:

Standard..... ANSI/ASSP Z359.14-2014

Date(s) of Testing..... 2/22/21 – 5/6/21

Product Description:

Product Type: ..... Self-Retracting Device

Brand Name: ..... KStrong

Model Number(s): UFS570030

Model Share: ..... UFS570060, and UFS570100

Date(s) Samples Received ..... 1/25/21 – 5/5/21

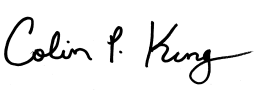
SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	TEST DATE	ANSI/ASSP Z359.14-2014 CLAUSE	STATUS
Static Strength	5/6/21	4.2.5	PASS
Retraction Tension Testing	2/23/21	4.2.6	PASS
Dynamic Strength Ambient	2/23/21	4.2.3	PASS
Dynamic Performance (ambient)	2/23/21	4.2.1	PASS
Line Constituent (Wire Rope)	2/23/21	7.5	PASS
General Requirements	2/23/21	3	PASS
Corrosion Resistance (96 hrs.)	2/22/21-2/25/21	7.4	PASS
Markings and instructions	2/23/21	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.

REPORT PREPARED BY:	Colin King	**REVIEWED BY:**	Matthew Stevens
TITLE:	Sr. Technical Writer	**TITLE:**	Team Leader
SIGNATURE:		**SIGNATURE**	
DATE	May 4, 2022	**DATE:**	May 16, 2022

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	Load Cell	PCB	N1392	10k	-	7/1/20	7/1/21
X	Load Cell	Interface	L099	-	-	8/26/20	8/26/21
X	Tape Measure	Stanley	N1407	25'	-	10/12/20	10/12/21
X	Force Gauge	Shimpo	S120S	-	-	12/11/20	12/11/21

SECTION 4

SUPPLEMENTAL TEST DATA

<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>4.2.5</td><td><u>Static Strength:</u> (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)</td><td>
<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>
Notes:
</td><td>PASS</td></tr>
</table>

<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>4.2.3</td><td><u>Dynamic Strength</u>: (ambient) – shall lock and remained locked until released. The test weight shall not touch the ground. The line constituent shall retain tensile strength of 1,000 lbs. after the dynamic strength test.

1. Connect 300 lb. weight.
2. extract enough line for a 4-foot (48-inch) free fall
3. release the test weight
4. evaluate the line strength of the affected area

<table>
<tr><th></th><th>Sample:
1</th><th>Sample:
2</th><th>Sample:
3</th></tr>
<tr><td>SN or ID:</td><td>#1</td><td>#2</td><td>#3</td></tr>
<tr><td>SRL Locked:</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>SRL Remained Locked until released</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Test weight touch the ground</td><td>NO</td><td>NO</td><td>NO</td></tr>
<tr><td>Did SRL payload out to full extension</td><td>NO</td><td>NO</td><td>NO</td></tr>
<tr><td>Did load indictor engage</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Retain a minimum of 1,000 lbs of residual tensile strength following the test</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>MAF: (lbs) Ref only:</td><td>1274</td><td>1293</td><td>1269</td></tr>
</table>
Notes:</td><td>PASS</td></tr>
</table>

<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>4.2.1 & 4.2.6</td><td>

Dynamic Performance: "**AMBIENT"**

1. connect 282 lb. weight
2. extract enough line for a 36-inch free fall per Fig 5 in Test Standard.
3. release the test weight

<table>
<tr><th></th><th>Sample:
4</th><th>Sample:
5</th><th>Sample:
6</th></tr>
<tr><td>Conditioning in: (2 hrs min)</td><td>24 Hr.</td><td>24 Hr.</td><td>24 Hr.</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 3.1.6 following test</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Lock function shall operate per 3.1.2</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>1261</td><td>1129</td><td>1181</td></tr>
<tr><td>Avg Arrest Force (lbs.):
Class A <1,350 lbs.
Class B < 900 lbs.</td><td>703</td><td>658</td><td>638</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>93"</td><td>92"</td><td>91"</td></tr>
<tr><td>Arrest Distance (in): D2-D1
Class A < 24-inches
Class B < 54-inches</td><td>46"</td><td>45"</td><td>44"</td></tr>
</table>

<table>
<tr><th>Retraction Tension</th><th>Line Extension (in or ft)</th><th>Sample:
(1)</th><th>Sample:
(2)</th><th>Sample:
(3)</th></tr>
</table>

</td><td>**PASS**</td></tr>
</table>

Section (Test)	Requirement	Results	Compliance

(1) Force (lbs) @ 1 ft	1’	2.3	2.2	2.4
Retracted length < 24-inches		N/A	N/A	N/A
(2) Force (lbs) @ 20%	6’	3.6	3.8	3.6
Retracted length < 24-inches		N/A	N/A	N/A
(3) Force (lbs) @ 40%	12’	4.3	4.5	4.6
Retracted length < 24-inches		N/A	N/A	N/A
(4) Force (lbs) @ 60%	18’	5.5	5.3	5.4
Retracted length < 24-inches		N/A	N/A	N/A
(5) Force (lbs) @ 80%	24’	6.3	6.2	6.2
Retracted length < 24-inches		N/A	N/A	N/A
(6) Force (lbs) @ 100%	30’	7.1	6.9	7.0
Retracted length < 24-inches		N/A	N/A	N/A

<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>7.4</td><td><u>Corrosion Resistance</u>

Subject the samples to 96 hours of salt spray per ASTM B117

<table>
<tr><td></td><td>Sample:
3.1.5 Salt (-1)</td><td>Sample:
3.1.5 Salt (-2)</td><td>Sample:
3.1.5 Salt (-3)</td></tr>
<tr><td>SN or ID</td><td>1</td><td>2</td><td>3</td></tr>
<tr><td>Operate as intended:</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Signs of corrosion (visual only):</td><td>NO</td><td>NO</td><td>NO</td></tr>
<tr><td>Line pay out, retract, and lock:</td><td>YES</td><td>YES</td><td>YES</td></tr>
</table></td><td></td><td>PASS</td></tr>
<tr><td>7.5</td><td><u>Wire Rope (Line Constituent)</u></td><td>Made of Synthetic materials?</td><td>YES</td><td>PASS</td></tr>
<tr><td></td><td></td><td>Any Restrictions?</td><td>NO</td><td>PASS</td></tr>
<tr><td></td><td colspan="3">
<table>
<tr><td>Section 7.1</td><td>Sample:
3.3.3 (-1)</td><td>Sample:
3.3.3 (-2)</td><td>Sample:
3.3.3 (-3)</td><td>Sample:
3.3.3 (-4)</td><td>Sample:
3.3.3 (-5)</td><td>AVG.</td></tr>
<tr><td>Tensile Load (lbs.)</td><td>>3400</td><td>>3400</td><td>>3400</td><td>>3400</td><td>>3400</td><td>>3400</td></tr>
</table>
Minimum breaking strength of 3,400 lbs when tested to Section 7.1
(FED-STD-191/4108)</td><td>PASS</td></tr>
</table>

Section (Test)	Requirement	Results	Compliance

<table>
<tr><td>5</td><td colspan="3">“Marking and Instructions”</td></tr>
<tr><td>5.1.1</td><td>Shall be in English</td><td></td><td>PASS</td></tr>
<tr><td>5.1.3</td><td colspan="3">Self-Retracting Devices shall be marked with the following:

<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></td><td>PASS</td></tr>
<tr><td>5.2.1</td><td>Instructions shall be in English, and affixed to the equipment at time of shipment from the manufacturer</td><td></td><td>PASS</td></tr>
</table>

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

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

SECTION 5
REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105057246CRT-003	5/5/2022	Report Extension	Steve Morey	Matthew Stevens
105057246CRT-003	5/16/2022	Revised Address and LLC changed to INC	Steve Morey	Matthew Stevens