

Declaration of Conformity

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

Declaration #: DOC-UFH10101G **Declaration Date:** 08/29/2024

Item #: UFH10101G

Description: KStrong® Kapture™ Essential 3-Point Full Body Harness, Dorsal D-ring, TB Legs

(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):

UFH10101G(S-L) UFH10101G(L-XL)

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

ANSI Z359.11-2021

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-UFH10101G.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: 105931908CRT-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: Full Body Harness

Models/Type References: UFH10231G, UFH10101G, UFH10131G, UFH16101G, UFH16001GP, UFH10201GQ

Brand Name: KStrong Inc.

Relevant Standards: ANSI Z359.11-2021

Verification Issuing Office

Name & Address:

Intertek Testing Services NA, Inc.

3933 US Rt-11

Cortland, NY 13045

USA

Date of Tests: 04/27/2023 – 04/28/2023

Test Report Number(s): 105931908CRT-001

Signature:

Name: Matthew Stevens
Position: Team Leader
Date: 08/29/2024





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 WORK

Standard Evaluation to ANSI Z359.11-2021 Safety Requirements for Full Body Harnesses

REPORT NUMBER

105931908CRT-001

ORIGINAL REPORT NUMBER

105529384CRT-011

ISSUE DATE

August 29, 2024

PAGES

11

DOCUMENT CONTROL NUMBER

GFT-OP-10a (6-March-2017) © 2017 INTERTEK





Report No.: 105931908CRT-001

Date: August 29, 2024

3933 US Rt. 11 Cortland, NY 13045

Telephone: 1 607-753-6711

www.intertek.com

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

Report Number.....: 105931908CRT-001

Signed Quote Number.: Qu-01473922

PO Number.::

Name of Testing Laboratory

Preparing the Report: Intertek Testing Services NA Inc.

Test Specification:

Standard: ANSI/ASSP Z359.11-2021

Date(s) of Testing.....: 4/27/2023 – 4/28/2023

Product Description:

Product Type:: Full Body Harness

Model Number:: UFH10231G

Shared Model Number:....: UFH10101G, UFH10131G, UFH16101G, UFH16001GP, UFH10201GQ

Date(s) Samples Received: 4/17/23

Report No.: 105931908CRT-001

Date: August 29, 2024

SECTION 1

SUMMARY OF TESTING

| TESTS COMPLETED | ANSI/ASSP Z359.11-2021 CLAUSE | STATUS |
|--|----------------------------------|--------|
| Design | 3 | PASS |
| Dynamic Feet First Drop (Dorsal) | 4.3.3 | PASS |
| Dynamic Headfirst Drop (Dorsal) | 4.3.4 | PASS |
| Fall Arrest Indicator (Dorsal) | 4.3.6 | PASS |
| Static Feet First (Dorsal) | 4.3.5 | PASS |
| Static Feet First (Hip) | 4.3.5 | PASS |
| Static Feet First for Lanyard Parking Attachment | 4.3.7 | PASS |

SECTION 2

This test report concludes the work anticipated in the testing phase of your project. Original Testing performed to 2014 Edition. Data evaluated to 2021 version as no differences in test procedures. If there are any questions regarding this report, please contact the undersigned at 607-753-6711.

| COMPLETE D BY: | Alex Smith | REVIEWED BY: | Matthew Stevens |
|-------------------|------------|-----------------|---|
| TITLE: | Technician | TITLE: | Team Leader |
| SIGNATURE: | Alex Smith | SIGNATURE | Alf-state and the state of the |
| DATE | 08/29/2024 | DATE: | 08/29/2024 |

Please see attached test data for details.

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Date: August 29, 2024

SECTION 3

TESTING EQUIPMENT CALIBRATION INFORMATION

| USED FOR TEST | DESCRIPTION | MANUFACTURER | CONTROL NO. | MODEL NO. | SERIAL NO. | CAL. DATE | CAL. DUE |
|------------------|------------------------|--------------|----------------|--------------|---------------|--------------|-------------|
| Х | Drop Test Structure | Intertek | NA | CAT. 3 | | N/A | N/A |
| Χ | Test Torso | NA | 15064 | 220 lbs | - | VBU | VBU |
| X | Load Cell | Interface | G119 | - | - | 5/25/22 | 5/25/23 |
| X | Tape Measure | Kobalt | H422 | - | _ | 5/13/22 | 5/13/23 |

SECTION 3

SUPPLEMENTAL TEST DATA

| Paragraph | Test Description | Results | Compliance |
|-----------|--|---------|------------|
| 3 | Requirements | | · |
| 3.1 | Design Requirements | | |
| 3.1.1 | Permanently incorporate a dorsal or sternal attachment | YES | PASS |
| 3.1.2 | Materials and constructions shall meet requirements | YES | PASS |
| 3.1.3 | FBH w/ dorsal attachment shall permanently include a sub- pelvic strap and /or waist belt | YES | PASS |
| 3.1.4 | FBH w sternal attachment shall permanently include a waist belt | YES | PASS |
| 3.1.5 | All shoulder straps shall come together and be connected at the dorsal location | YES | PASS |
| 3.1.6 | All FBH's shall permanently incorporate a waist belt or a back strap for controlling the separation of the shoulder straps | YES | PASS |
| 3.1.7 | Modular components shall design requirements | | NA |
| 3.1.7.1 | Modular components shall be attached to the harness using connections that meet section 3 | | NA |
| 3.1.7.2 | Attachment element extender can be no longer than 24-inches | | NA |
| 3.1.8 | FBH integrated into a vest shall allow visual inspection or entire FBH | | NA |
| 3.1.9 | All FBH shall be equipped with a fall arrest indicator that will deploy during dynamic testing | YES | PASS |
| 3.1.10 | FBH/EA/EAL combinations shall meet the requirements of Z359.11 and Z359.13 | YES | PASS |
| 3.1.11 | FBH shall include keepers for straps | YES | PASS |
| 3.1.12 | FBH shall include lanyard parking attachment | YES | PASS |
| 3.1.13 | It shall not be possible to remove elements | YES | PASS |
| 3.1.14 | All single point attachment elements must be located within 2-inches of the vertical centerline | YES | PASS |
| 3.2 | Attachment Element Requirements | YES | PASS |
| 3.2.1 | Dorsal- shall be used as the primary fall arrest attachment | YES | PASS |
| 3.2.1.1 | May be used in travel restraint or rescue | YES | PASS |
| 3.2.1.2 | Dorsal attachment shall direct the load through the shoulder straps and around the thighs | YES | PASS |
| 3.2.1.3 | Dorsal Attachment Element requirements | YES | PASS |
| 3.2.1.3.1 | Dynamic Feet First- see section 4.3.3 | YES | PASS |
| | | | |

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| Paragraph | Test Description | Results | | Compliance |
|-----------|--|---------|----|------------|
| 3.2.1.3.2 | Dynamic Head First – see section 4.3.4 | YES | | PASS |
| 3.2.1.3.3 | Static Feet First- see section 4.3.5 | YES | | PASS |
| 3.2.1.3.4 | Fall Arrest Indicator – see section 4.3.6 | YES | | PASS |
| 3.2.2 | The sternal attachment may be used as an alternative fall arrest attachment | | NA | NA |
| 3.2.2.1 | The sternal attachment may be used for travel restraint or rescue | | NA | NA |
| 3.2.2.2 | Sternal attachment design shall direct the load through the shoulder straps and thighs | | NA | NA |
| 3.2.2.3 | Sternal Attachment Element Requirements | | NA | NA |
| 3.2.2.3.1 | Dynamic Feet First – see section 4.3.3 | | NA | NA |
| 3.2.2.3.2 | Static Feet First – see section 4.3.5 | | NA | NA |
| 3.2.2.3.3 | Fall Arrest Indicator – see section 4.3.6 | | NA | NA |
| 3.2.3 | Frontal attachment to be used for ladder guided type FA's where no chance of fall in a feet first direction (may be used for work positioning) | | NA | NA |
| 3.2.3.1 | Frontal Attachment Element Requirements | | | NA |
| 3.2.3.1.1 | Dynamic Feet First – see section 4.3.3 | | | NA |
| 3.2.3.1.2 | Static Feet First – see section 4.3.5 | | | NA |
| 3.2.4 | Shoulder attachments shall be used as a pair, also for rescue and entry/retrieval not for FA. | | | NA |
| 3.2.4.1 | Shoulder Attachment Elements Requirements | | | NA |
| 3.2.4.1.1 | Static Feet First – see section 4.3.5 | | | NA |
| 3.2.5 | Waist, rear attachment for travel restraint only | | | NA |
| 3.2.5.1 | Waist, rear attachment shall be subjected to minimal loading, not used for FA | | | NA |
| 3.2.5.2 | Waist Attachment Elements Requirements | | | NA |
| 3.2.5.2.1 | Static Feet First – see section 4.3.5 | | | NA |
| 3.2.6 | Hip attachments shall be used as a pair and solely for work positioning, not used for FA | YES | | PASS |
| 3.2.6.1 | Hip Attachment Element Performance Requirements | YES | | PASS |
| 3.2.6.1.1 | Static Feet First – see section 4.3.5 | YES | | PASS |
| 3.2.7 | Suspension seat shall be used as a pair and solely for work positioning, not used for FA | | NA | NA |
| 3.2.7.1 | Suspension Seat Attachment Element Performance Requirements | | NA | NA |
| 3.2.7.1.1 | Static Feet First – see section 4.3.5 | YES | | PASS |
| 3.3 | Component Requirements | YES | | PASS |
| 3.3.1 | Load Bearing Straps | YES | | PASS |
| 3.3.1.1 | Shall not be less than 1-5/8" (41mm) | YES | | PASS |
| 3.3.1.2 | Minimum breaking strength of 5,000 lbs per section 7.1.1 | YES | | PASS |
| 3.3.1.3 | Straps shall be pure, non-recycled synthetic material. Any restrictions shall be marked on the FBH | YES | | PASS |
| 3.3.1.4 | Straps shall be hot cut, sealed, covered, or stitched to prevent fraying | YES | | PASS |
| 3.3.1.5 | After abrasion conditioning per 7.1.2, straps shall have a breaking strength of at least 3,600 lbs when tested to 7.1.1 | YES | | PASS |

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| Paragraph | Test Description | | Results | | | Compliance |
|-----------|---|---|---|-----|---|------------|
| 3.3.1.6 | In areas of concentrated wear straps shall | be protected | Y | 'ES | | PASS |
| 3.3.1.7 | Spacing between eyelets centers shall be linches | Spacing between eyelets centers shall be between 1-1/8- 2 inches | | 'ES | | PASS |
| 3.3.2 | Thread and Stitching YE | | 'ES | | PASS | |
| 3.3.2.1 | Shall have the same material as load beari | ing straps | Y | 'ES | | PASS |
| 3.3.2.2 | All stitching shall be lock stitched and back | kstitched | Υ | 'ES | | PASS |
| 3.3.2.3 | All stitching used to connect load bearing contrasting in color at a distance of 12-inc | | Y | 'ES | | PASS |
| 3.3.3 | Connecting Components | | Y | 'ES | | PASS |
| 3.3.3.1 | Hardware shall conform to Z359.12 (excep | ot soft loops) | Y | 'ES | | PASS |
| 3.3.3.2 | Soft loops attachments may be used in pla connecting components | ace of metal | Y | 'ES | | PASS |
| 3.3.3.3 | Soft loop attachments shall be constructed meet section 3.3.1 | d of materials that | | | NA | NA |
| 3.3.3.4 | Soft loops shall include protection from w | ear | | | NA | NA |
| 4 | Qualification Testing | | | | | |
| | | "DORSAL ATT | ACHMENT" | | | |
| 4.3.3 | Dynamic Feet First Drop Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment per the Mfg Instructions. 3. If equipped with chest strap (section 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Determine drop height, attach quick release to the torso neck, lower torso to remove slack, measure height (lowest point of torso to floor) 5. Raise torso to predetermined height, release, measure MAF, measure and record final height | Requi Sample ID: Location of Dorsal At Drop Height Max Arrest Force Hi- initial height Hf- final height He – Harness Effect (Harness effect shall n which is stated in the whichever is less. Sta Release from the torso Support the torso for a | Hi-Hf) ot exceed 18-inches or Mfg. Instructions, ated: o a period of 5-minutes post o post fall of an angle not rtical t indicator deployed | | inches ft lbs inches inches inches inches | PASS |

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| Paragraph | Test Description | Results | | Compliance |
|-----------|---|--|---|------------|
| 4.3.3 | Dynamic Feet First Drop Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment per the Mfg Instructions. 3. If equipped with chest strap (section 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Determine drop height, attach quick release to the torso neck, lower torso to remove slack, measure height (lowest point of torso to floor) 5. Raise torso to predetermined height, release, measure MAF, measure and record final height | Feet First DORSAL Attachm Requirements per Section 3.2. Sample ID: 2 Location of Dorsal Attachment Element Drop Height Max Arrest Force Hi- initial height Hf- final height He – Harness Effect (Hi-Hf) Harness effect shall not exceed 18-inches or which is stated in the Mfg. Instructions, whichever is less. Stated Release from the torso Support the torso for a period of 5-minutes post fall Shall support the torso post fall of an angle not greater than 30° to vertical At least one fall arrest indicator deployed visibly and permanently | inches ft lbs inches inches inches inches | PASS |
| 4.3.3 | Dynamic Feet First Drop Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment per the Mfg Instructions. 3. If equipped with chest strap (section 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Determine drop height, attach quick release to the torso neck, lower torso to remove slack, measure height (lowest point of torso to floor) 5. Raise torso to predetermined height, release, measure MAF, measure and record final height | Feet First DORSAL Attachmer Requirements per Section 3.2.1 Sample ID: 3 Location of Dorsal Attachment Element Drop Height Max Arrest Force Hi- initial height He- Harness Effect (Hi-Hf) Harness effect shall not exceed 18-inches or which is stated in the Mfg. Instructions, whichever is less. Stated: Release from the torso Support the torso for a period of 5-minutes post fall Shall support the torso post fall of an angle not greater than 30° to vertical At least one fall arrest indicator deployed visibly and permanently | inches ft lbs inches inches inches inches | PASS |

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| Paragraph | Test Description | Results | | | Compliance |
|-----------|--|--|----------------|-----------------------|------------|
| 4.3.4 | Dynamic Head First Drop Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment bearing point 8 +/- 1 inch below the top of the shoulder (or maximum lowest position) 3. If equipped with chest strap (section 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Attach quick release to the torso crotch, lower torso to remove slack 5. Raise torso to predetermined height, release, measure MAF | Head First DORSAL Attachment Requirements per Section 3.2.1.3. Sample ID: 1 Location of Dorsal Attachment Element Drop Height Max Arrest Force Release from the torso Support the torso for a period of 5-minutes post fall Shall support the torso post fall of an angle not greater than 30° to vertical At least one fall arrest indicator deployed visibly and permanently | - | inches ft lbs No 7.4° | PASS |
| 4.3.4 | Dynamic Head First Drop Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment bearing point 8 +/- 1 inch below the top of the shoulder (or maximum lowest position) 3. If equipped with chest strap (section | Head First DORSAL Attachment Requirements per Section 3.2.1.3. Sample ID: 2 Location of Dorsal Attachment Element Drop Height Max Arrest Force Release from the torso | 8 6 1908 | inches ft lbs No | DAGG |
| | 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Attach quick release to the torso crotch, lower torso to remove slack 5. Raise torso to predetermined height, release, measure MAF | Support the torso for a period of 5-minutes post fall Shall support the torso post fall of an angle not greater than 30° to vertical At least one fall arrest indicator deployed visibly and permanently | Yes Yes Yes | 7.7° | PASS |
| 4.3.4 | Dynamic Head First Drop Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment bearing point 8 +/- 1 inch below the top of the shoulder (or maximum lowest position) 3. If equipped with chest strap (section 4.3.2), locate strap +/-2 inches on torso from datum E figure 5 and 1b of standard 4. Attach quick release to the torso crotch, lower torso to remove slack 5. Raise torso to predetermined height, release, measure MAF | Head First DORSAL Attachment Requirements per Section 3.2.1.3. Sample ID: 3 Location of Dorsal Attachment Element Drop Height Max Arrest Force Release from the torso Support the torso for a period of 5-minutes post fall Shall support the torso post fall of an angle not greater than 30° to vertical At least one fall arrest indicator deployed visibly and permanently | | inches Ft Lbs No 8.0° | PASS |

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| Paragraph | Test Description | Results | | | Compliance |
|-----------------|--|---|------------------|--|------------|
| Paragraph 4.3.5 | Test Description Static Feet First Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Secure crotch of test torso to test equipment 3. connect to attachment element | Feet First DORSAL Attachmen Requirements per Section 3.2.1.3 Sample ID: 1,2,3 Release from the torso Slippage – Crotch Strap Adjuster, Right Slippage – Crotch Strap Adjuster, Left | 0 0 | no inches inches | Compliance |
| | 4. mark locations of buckles and adjusters 5. apply 3,600 lb load and maintain for 1-minute 6. Release load and evaluate sample | Slippage – Chest Strap Adjuster, Center Slippage – Chest Strap Adjuster, Right Slippage – Chest Strap Adjuster, Left Slippage – Other Slippage – Other Strap tear further than adjacent eyelet adjuster Straps shall show no signs of tearing "Slippage through any adjuster shall not exceed 1- | 0 0 na na na Yes | inches inches inches inches inches na | PASS |
| 4.3.6 | Fall Arrest Indicator Test: Test Set-up (Dorsal): 1. Don the harness on the test torso 2. Position dorsal attachment per the Mfg Instructions. 3. Attach quick release to the neck of the test torso 4. Attach a Z359.13 compliant 6-foot EAL to the test anchorage 5. lower torso until test shackles are straight but no load 6. raise torso 24-inches | DORSAL Attachment Requirements per Section 3.2.1.3 Sample ID: 1,2,3 At least one fall arrest indicator shall deploy visibly and permanently | | Yes | PASS |

Report No.: 105931908CRT-001

| Paragraph | Test Description | Results | Compliance |
|---------------------------------------|---|--|------------------------|
| · · · · · · · · · · · · · · · · · · · | 1 000 0 00011 p 11011 | "HIP ATTACHMENT" | |
| 4.3.5 | Static Feet First Test: Test Set-up (Hip): 1. Don the harness on the test torso 2. Secure crotch of test torso to test equipment 3. connect to attachment element 4. mark locations of buckles and adjusters 5. apply 3,600 lb load and maintain for 1-minute 6. Release load and evaluate sample | Feet First HIP Attachment Requirements per Section 3.2.6.1.1 Sample ID: 1,2,3 Release from the torso no Slippage – Crotch Strap Adjuster, Right oinche Slippage – Crotch Strap Adjuster, Left oinche Slippage – Chest Strap Adjuster, Center oinche Slippage – Chest Strap Adjuster, Right oinche Slippage – Chest Strap Adjuster, Right oinche Slippage – Chest Strap Adjuster, Left oinche Slippage – Chest Strap Adjuster, Left oinche Slippage – Other na inche Slippage – Other na inche Strap tear further than adjacent eyelet adjuster na Straps shall show no signs of tearing yes "Slippage through any adjuster shall not exceed 1-inch" | es es es es PASS |
| 4.3.7 | 1) Secure the crotch of the test torso to the static test equipment ensuring the direction of the pull on the attachment simulates a feet first fall 2) Connect the attachment element to the static test equipment using a test lanyard. 3) Apply and steadily increase the load until a disengagement load of not more than 120 pounds (0.5 Kn) | Sample 2 (break load) 23 I | bs bs bs PASS |

Report No.: 105931908CRT-001

Date: August 29, 2024

SECTION 5

REVISION HISTORY

| REPORT NUMBER | DATE OF REVISION | DESCRIPTION OF CHANGE: | PROJECT OWNER | REVIEWED BY |
|------------------|---------------------|--|------------------|-----------------|
| 105431545CRT-001 | 04/28/2023 | Original Report | Alex Smith | Matthew Stevens |
| 105431545CRT-001 | 08/04/2023 | Report Correction (Model Number & Shared Model Number) | Alex Smith | Matthew Stevens |
| 105529384CRT-011 | 08/10/2023 | Report Extension | Alex Smith | Matthew Stevens |
| 105931908CRT-001 | 08/29/2024 | Report Extension | Alex Smith | Matthew Stevens |

SECTION 6

PHOTOGRAPHS

UFH10131G



UFH16101G

