Declaration of Conformity

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



Alexander Andrew, Inc. 1306 S. Alameda St Compton, CA 90221 (800) 719-4619

| Declaration # | D02160 | 67 | Declaratio | on Date 2 | /16/2023 |
|--|------------------|---|--------------------|--|-------------|
| ested Item # | 721530T | FT-R SRL, Class | 1 Technora Rop | e, 30', Plastic | Housing |
| 721530TD1 | | er this Declaration: | | | |
| Alexander A | the requir | eclares that the pro ements of the follo I Z359.14-2021 | wing product star | ndard(s): | ity with |
| Con | formity Assess | ment Method in acc | ordance with ANSI/ | ISEA 125-2014 | |
| Le | vel 1 | Level 2 | χ | evel 3 | |
| Level 1: FallTo Outside the S ISO/IEC Standard | cope of | Level 2: FallTo Within the So ISO/IEC Standard | cope of | vel 3: Independent accredited ISO/IEC Standard | d to |
| pporting ocumentation | PC-2682 | | | | |
| Auth | orized Signat | ure / | ak Witu | | |
| ame Zachar | y Winters | Title Er | gineering Manager | Date | 2/16/2023 |
| | Accreditation Se | rvice, Inc | FallT | ech Lab - TL-594 | |
| 3060 Saturn S | | | | EC 17025:2017 | |
| REDITED Brea CA 9282 | 1 +1 562-364-8 | 201 | Alexa | ander Andrew Inc (| ha FallTech |





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| FallTech Test Report | | | | | | | |
|----------------------|------------------------------|--------------|---------------|---|---------|-----------|-------------|
| Test Report No. | PC-2682 | Rpt. Date | 2/16/2023 | Rpt. Rev | | Rev Date | |
| Report Prepared For | FallTech | | | | | | |
| Initiated By | Zachary Winters | Test Specif | fication(s) | ANSI Z359.14-2021: 4.2.1, 4.2.3 4.3.1, 4.5.1, | | | 3.1, 4.5.1, |
| Part No. | 721530T | | | Part No. Re | evision | Α | |
| Part Description | FT-R SRL, Class | 1 Technora F | Rope, 30' Pla | stic Housing | | | |
| Test Request No. | PC-2682 | | | Date Complete | | 1/17/2023 | |
| Test Operator(s) | Yesbet Sierra / Jay Sponholz | | | | | | |

| | Material/Sample Identification |
|-----------|--|
| Sample ID | Description |
| SST1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| SST2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| SST3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| L1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| L2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| L3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| A1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| A2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| A3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| H1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| H2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| H3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| C1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| C2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| C3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| W1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| W2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| W3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| R1 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| R2 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |
| R3 | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing |

| | Test Summary | | | | | | |
|----------------------------|-----------------|--------------------------------|------------|-----------|--|--|--|
| Test Specification | Tes | Test Criteria | | Pass/Fail | | | |
| ANSI Z359.14-2021 4.2.1 | Static Strength | ≥ 3600 Lbf for ≥ 60 Seconds | 3639.6 lbF | Pass | | | |
| ANSI Z359.14-2021 4.2.1 | Static Strength | ≥ 3600 Lbf for ≥ 60 Seconds | 3633.5 lbF | Pass | | | |
| ANSI Z359.14-2021 4.2.1 | Static Strength | ≥ 3600 Lbf for ≥ 60 Seconds | 3627.7 lbF | Pass | | | |





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| FallTech Test Report | | | | | | | |
|----------------------|-----------------|--|------------|---|---------|-----------|-------------|
| Test Report No. | PC-2682 | Rpt. Date | 2/16/2023 | Rpt. Rev | | Rev Date | |
| Report Prepared For | FallTech | | | | | | |
| Initiated By | Zachary Winters | Test Specif | ication(s) | ANSI Z359.14-2021: 4.2.1, 4.2.3 4.3.1, 4.5.1, | | | 3.1, 4.5.1, |
| Part No. | 721530T | | | Part No. Re | evision | Α | |
| Part Description | FT-R SRL, Class | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing | | | | | |
| Test Request No. | PC-2682 | | | Date Comp | lete | 1/17/2023 | |

| Test Summary | | | | | | |
|------------------------------|------------------|--------------------------------|----------------|-----------|--|--|
| Test Specification | Te | st Criteria | Test Result | Pass/Fail | | |
| ANSI Z359.14-2021 4.2.3 | Locking Strength | > 1800 Lbf for > 60 Seconds | 1836.2 lbF | Pass | | |
| ANSI Z359.14-2021 4.2.1 | Locking Strength | > 1800 Lbf for > 60 Seconds | 1836.5 lbF | Pass | | |
| ANSI Z359.14-2021 4.2.1 | Locking Strength | > 1800 Lbf for > 60 Seconds | 1832.9 lbF | Pass | | |
| | Max Arrest Force | <u><</u> 1800 Lbf | 1279.3 lbF | Pass | | |
| ANSI Z359.14-2021 | Avg Arrest Force | ≤ 1350 Lbf | 777.9 lbF | Pass | | |
| 4.3.1 | Arrest Distance | <u>≤</u> 42" | 41.5" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1233.1 lbF | Pass | | |
| ANSI Z359.14-2021 | Avg Arrest Force | ≤ 1350 Lbf | 756.6 lbF | Pass | | |
| 4.3.1 | Arrest Distance | <u>≤</u> 42" | 39.8" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1175.0 lbF | Pass | | |
| ANSI Z359.14-2021 | Avg Arrest Force | ≤ 1350 Lbf | 798.2 lbF | Pass | | |
| 4.3.1 | Arrest Distance | <u>≤</u> 42" | 29.8" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1006.3 lbF | Pass | | |
| ANSI Z359.14-2021 4.3.1.7 | Avg Arrest Force | ≤ 1575 Lbf | 682.6 lbF | Pass | | |
| 4.3.1.7 Hot | Arrest Distance | <u>≤</u> 42" | 40.5" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1009.4 lbF | Pass | | |
| ANSI Z359.14-2021 4.3.1.7 | Avg Arrest Force | ≤ 1575 Lbf | 756.0 lbF | Pass | | |
| 4.3.1.7 Hot | Arrest Distance | ≤ 42" | 38.9" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1140.0 lbF | Pass | | |
| ANSI Z359.14-2021 4.3.1.7 | Avg Arrest Force | <u><</u> 1575 Lbf | 702.5 lbF | Pass | | |
| 4.5.1.7 Hot | Arrest Distance | <u>≤</u> 42" | 30.1" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |





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| FallTech Test Report | | | | | | | |
|----------------------|-----------------|---|------------|---|---------|-----------|-------------|
| Test Report No. | PC-2682 | Rpt. Date | 2/16/2023 | Rpt. Rev | | Rev Date | |
| Report Prepared For | FallTech | | | | | | |
| Initiated By | Zachary Winters | Test Specif | ication(s) | ANSI Z359.14-2021: 4.2.1, 4.2.3 4.3.1, 4.5.1, | | | 3.1, 4.5.1, |
| Part No. | 721530T | | | Part No. Re | evision | Α | |
| Part Description | FT-R SRL, Class | T-R SRL, Class 1 Technora Rope, 30' Plastic Housing | | | | | |
| Test Request No. | PC-2682 | | | Date Comp | lete | 1/17/2023 | |

| | Test Summary | | | | | |
|------------------------------|------------------|--------------------------|----------------|-----------|--|--|
| Test Specification | Te | st Criteria | Test Result | Pass/Fail | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1181.4 lbF | Pass | | |
| ANSI Z359.14-2021 4.3.1.8 | Avg Arrest Force | ≤ 1575 Lbf | 818.6 lbF | Pass | | |
| 4.5.1.8 Cold | Arrest Distance | <u>≤</u> 42" | 34.6" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1212.1 lbF | Pass | | |
| ANSI Z359.14-2021 4.3.1.8 | Avg Arrest Force | ≤ 1575 Lbf | 808.9 lbF | Pass | | |
| 4.3.1.8 Cold | Arrest Distance | <u>≤</u> 42" | 37.8" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1114.9 lbF | Pass | | |
| ANSI Z359.14-2021 | Avg Arrest Force | ≤ 1575 Lbf | 766.3 lbF | Pass | | |
| 4.3.1.8 Cold | Arrest Distance | <u>≤</u> 42" | 37.1" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1012.9 lbF | Pass | | |
| ANSI Z359.14-2021 | Avg Arrest Force | ≤ 1575 Lbf | 725.9 lbF | Pass | | |
| 4.3.1.9 Wet | Arrest Distance | <u>≤</u> 42" | 41.8" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1155.2 lbF | Pass | | |
| ANSI Z359.14-2021 4.3.1.9 | Avg Arrest Force | ≤ 1575 Lbf | 773.4 lbF | Pass | | |
| 4.3.1.9 Wet | Arrest Distance | <u>≤</u> 42" | 33.4" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |
| | Max Arrest Force | ≤ 1800 Lbf | 1197.7 lbF | Pass | | |
| ANSI Z359.14-2021 | Avg Arrest Force | ≤ 1575 Lbf | 749.0 lbF | Pass | | |
| 4.3.1.9 Wet | Arrest Distance | <u>≤</u> 42" | 35.8" | Pass | | |
| | Visual Indicator | Clear evidence of Impact | Clear Evidence | Pass | | |





FallTech Testing Laboratory

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| FallTech Test Report | | | | | | | |
|----------------------|-----------------|--|------------|---|---------|-----------|-------------|
| Test Report No. | PC-2682 | Rpt. Date | 2/16/2023 | Rpt. Rev | | Rev Date | |
| Report Prepared For | FallTech | | | | | | |
| Initiated By | Zachary Winters | Test Specif | ication(s) | ANSI Z359.14-2021: 4.2.1, 4.2.3 4.3.1, 4.5.1, | | | 3.1, 4.5.1, |
| Part No. | 721530T | | | Part No. Re | evision | Α | |
| Part Description | FT-R SRL, Class | FT-R SRL, Class 1 Technora Rope, 30' Plastic Housing | | | | | |
| Test Request No. | PC-2682 | | | Date Comp | lete | 1/17/2023 | |

| Test Summary | | | | | | |
|----------------------------|--------------------------------------|-------------------------------------|-------------|-----------|--|--|
| Test Specification | Test Criteria | | Test Result | Pass/Fail | | |
| | Retraction Tension 0% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 2.7 lbF | Pass | | |
| ANSI Z359.14-2021 4.5.1 | Retraction Tension 50% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 3.5 lbF | Pass | | |
| | Retraction Tension 100% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 7.8 lbF | Pass | | |
| | Retraction Tension 0% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 3.0 lbF | Pass | | |
| ANSI Z359.14-2021 4.5.1 | Retraction Tension 50% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 3.7 lbF | Pass | | |
| | Retraction Tension 100% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 7.8 lbF | Pass | | |
| | Retraction Tension 0% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 2.7 lbF | Pass | | |
| ANSI Z359.14-2021 4.5.1 | Retraction Tension 50% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 2.2 lbF | Pass | | |
| | Retraction Tension 100% Extracted | 1.25 Lbf - 25 Lbf ≤ 48" Extended | 7.2 lbF | Pass | | |

Conclusion Based upon the samples provided to the Lab:

FallTech P/N 721530T Rev. A meets the requirements of ANSI Z359.14-2021 and ASTM F887-20 Section 22

| | Report Signatories and Approval | | |
|---------------------|---------------------------------|------|-----------|
| Lab Quality Manager | Jay Sponholz | Date | 2/16/2023 |
| | • | - | |
| Witnessed by | Not Required | Date | N/A |





TESTING - EXPOSURE TO AN ELECTRIC ARC

Test Specimen:

FallTech, Self-Retracting Lifeline - Personal, Style 721530T, Webbing: Kevlar, Yellow

Requested by:

FallTech 1306 S Alameda St Compton, CA 90221

Test Standard:

ELECTRIC ARC TESTS: ASTM F887-20, SECTION 22

OBSERVATION OF PERSONAL CLIMBING EQUIPMENT EXPOSED TO AN ELECTRIC ARC

Test Report:

K-580778-2207H10-R00

Results:

Based on the test results in Table 4-1 and observations, the product tested meets the requirements criteria of Table 1-1. The verification of performance shall include a mechanical integrity (vertical drop test) as soon as possible following the arc exposure. SRL products are not included in the scope in ASTM F887-20 section 22. The material evaluation under arc exposure from these limited tests is not a validation of performance to the referenced standard.

| • | e Received 15, 2022 | Test Date August 4, 2022 | Report Date August 31, 2022 |
|--|---|-----------------------------|---|
| Prepared by | | Approv | ved by |
| yBrito Y. | Digitally signed by Guerra Yosbani Date: 2022.09.06 09:08:08 -04'00' | | Claude Maurice 2022.09.06 10:28:57 -04'00' |
| Yosbani Guerra Technologist, HCL TD Technologies, Kinectrics | | Tech | de Maurice nnical Specialist, HCL echnologies, Kinectrics |

For questions about this test report, please contact testing@arcwear.com

KINECTRICS INC. 800 Kipling Ave, Unit 2, M8Z 5G5, Toronto, ON, Canada www.kinectrics.com



Revision History

| Rev | Description | | |
|-----|-------------------------|----------------|----------------|
| 00 | Initial report creation | | |
| | Issue Date | Prepared by | Approved by |
| | August 31, 2022 | Yosbani Guerra | Claude Maurice |
| Rev | Description | | |
| | Issue Date | Prepared by | Verified by |
| | | | |

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QUALITY MANAGEMENT

The arc testing performed to the above mentioned Standard is accredited by the Standards Council of Canada (SCC) to conform to the requirements of CAN-P-4E (ISO/IEC 17025:2017). Accreditation by the Standards Council of Canada (SCC) is a mark of competence and reliability

- The test performed does not apply to electrical contact or electrical shock hazard.
- The test result is applicable only to the Test Specimens delivered to Kinectrics, other material, design or color may have a different response.
- It is the clients' responsibility to provide full and accurate information about the items supplied.
- No test is done to validate the fiber content or composition of the test item.
- Photographs of the test specimens and waveforms of the arc current, voltage and calorimeters
 with the circuit and arc exposure calibration records are available from Kinectrics and provided to
 the client separately from this report.

August 31, 2022 Page 2 of 10 **Kinectrics Inc.** www.kinectrics.com



1 Test Standard:

Electrical arc test according to ASTM F887-20, Section 22

Standard Specifications for Personal Climbing Equipment, After Exposure to an Electric Arc Evaluation. Specimens are mounted on mannequins of panels having a distance of 30.5 cm (12 inches) from the centerline of the electrodes. The test standard requires that the finished personal climbing equipment be exposed to a level of 40 cal/cm² ± 5 cal/cm².

1.1 Test Requirements

Harnesses- The test program requires the specimens be placed on mannequins as normally worn. A minimum of eight samples are tested, four samples with the front facing the arc and four samples with the back side toward the arc.

Harness accessories, loops etc. - Three specimens of each accessory or loop are required to be exposed to the arc.

Energy Absorbing Lanyard - Three specimens of each lanyard are required to be exposed to the arc.

SRL & SRD- Self-retracting devices (SRDs) are not included in the scope of arc exposure test in ASTM F887-20, Section 22. These devices are under consideration for inclusion at a future date. In the current standard, their test method, number of samples required, and subsequent drop test and criteria has not been established by ASTM.

At the request of the client, the test exposure level and method for energy absorbing lanyards was followed. The drop test to verify mechanical integrity following the arc exposure will be arranged by the producer based on the applicable drop method followed for such devices.

Other effects than the thermal effects of an electric arc like noise, light emissions, pressure rise, hot oil, electric shock, the consequences of physical and mental shock or toxic influences are not covered by this standard.

1.2 Acceptance criteria for products exposed to electrical arc:

The procedure outlined in ASTM F887-20 is followed to verify the electric arc performance of the personal climbing equipment. The product is considered as having passed the visual inspection criteria if the parameters defined in Table 1-1 are met. As proof of performance following the arc exposure, the exposed test specimens shall be subjected to a drop test. This shall be done as soon as practically possible. The samples have been returned to the client as directed to perform the drop test.

August 31, 2022 Page 3 of 10 **Kinectrics Inc.** www.kinectrics.com



Table 1-1: Visual inspection Criteria for Electric Arc Performance of ASTM F887-20

| Parameter | Criterion | |
|------------------|--|--|
| Arc Energy | Electrical arc exposure of 40 cal/cm² ± 5 cal/cm² | |
| Ignition | No electric arc ignition. | |
| After-flame Time | Less than 5 seconds on load bearing materials and less than 15 seconds for accessories or non-load bearing components. | |
| Melting/Dripping | No melting and dripping of molten materials to the floor of any load bearing material. Accessories are allowed to exhibit melting and dripping provided they are not ignited while dripping. | |

2 Test Condition:

The following test circuit parameters and conditions were used.

- Electric arc current: 8 kA rms ± 10%, 60 Hz
- Open circuit voltage: 2500 V rms ± 10%, 60 Hz
- Nominal Heat Flux Density: 2100 kW/m² (50 cal/cm²·s)
- Arc duration: 0.85 seconds ± 0.1 s to obtain required incident energy
- Electrode gap: 305 mm (12 inches)
- Distance from mannequin to electrode: 305 mm (12 inches)
- Deviations and abnormalities: **Verification of arc performance for SRDs is not the scope of ASTM F887-20**.

Note: The measurement uncertainty, MU, for the measured values of this test method are well within the requirements of the test standard and are defined on a 95% confidence interval basis over the full test range, as follows:

- Temperature: ± 2 °C Incident Energy: ± 1.5% - Arc Current: ± 2.5% Voltage: ± 2.2%

- Time zero reference: ± 3 ms



4 Test Results:

Arc exposures were performed on the samples provided to include the webbing, document pouch area and SRL case. If the conditions and evaluation of the samples meet the criteria in Table 1-1, the product has passed the electrical arc exposure and is candidate for the mechanical drop test to fully meet the arc performance requirements of ASTM F887-20. Photographs of the samples before and after the arc exposure are shown in Section 6.

Test A - Left A - Right B - Left B - Right Specimen 44.0 Cal/cm² 44.0 Cal/cm² 39.0 Cal/cm² 39.0 Cal/cm² Incident Energy After-flame (s) 0 0 0 0 Ignition Ν Ν Ν Ν Melting and Dripping Ν Ν Ν Ν Acceptance Criteria Meets Meets Meets Meets 22-1710 Test A - Left A - Left B - Right Specimen Incident Energy 44.7 Cal/cm² 44.7 Cal/cm² 36.6 Cal/cm² After-flame (s) 0 0 0 Ignition Ν Ν Ν Melting and Dripping Ν Ν Acceptance Criteria Meets Meets Meets

Table 4-1: Summary of Test Results

4.1 Observations:

Charring of the outer layer of webbing was observed on all samples tested. No after-flame was observed on any of the samples tested. There was no evidence of melting or dripping on any of the samples tested.

5 Interpretation of Results:

This testing does not assign an arc rating to this product. The purpose of this test was to observe the response characteristics of this product when exposed to an open-air electric arc.

Based on the test results in Table 4-1 and observations, the product tested meets the requirements criteria of Table 1-1 used for evaluation of harnesses and lanyards.

The verification of performance shall include a mechanical integrity (vertical drop test) as soon as possible following the arc exposure.

SRL & SRD- Self-retracting devices are not included in the scope of arc exposure test in ASTM F887-20, Section 22. These devices are under consideration for inclusion at a future date. In the referenced standard, their test method, number of samples required, and subsequent drop test and criteria has not been established.

August 31, 2022 Page 6 of 10 **Kinectrics Inc.** www.kinectrics.com