

# **Declaration of Conformity**

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

Item #: UFA55370

**Description:** KStrong® Single Seam Roof Anchor (ANSI)

**Brand Name:** KStrong **Manufacturer:** KStrong

Address: 150 N. Radnor Chester Road, Suite F200, Radnor, PA 19087

**Declaration #:** DOC-UFA55370 **Declaration Date:** 05/16/2022

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 Z359.18-2017 Type A/T

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-UFA55370.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



# KSTRONG INC TEST REPORT

#### **SCOPE OF WORK**

ANSI/ASSP Z359.18 – 2017 Safety Requirements for Anchorage Connectors for Active Fall Protection Systems

#### **REPORT NUMBER**

105057246CRT-002

#### **ISSUE DATE**

May 16, 2022

#### **PAGES**

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#### **DOCUMENT CONTROL NUMBER**

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





Report No.: 105057246CRT-002

Date: May 16, 2022

3933 US Route 11 Cortland, New York ,USA 13045

Telephone: 607-758-6246

Facsimile: None www.intertek.com

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

PO Number ...... None

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

**Test Specification:** 

Standard...... ANSI/ASSP Z359.18-2017

Date(s) of Testing...... 11/18/20 - 5/10/21

**Product Description:** 

Product Type: ...... Type A/T

Brand Name: ...... Kstrong

Model Number(s): ...... UFA55370

Date(s) Samples Received ...... 11/2/20 & 2/18/2021

Date: May 16, 2022

#### **SECTION 1**

# **SUMMARY OF TESTING**

| TESTS COMPLETED                                            | ANSI/ASSP Z359.18-2017<br>CLAUSE | STATUS |
|------------------------------------------------------------|----------------------------------|--------|
| Design Requirements                                        | 3                                | PASS   |
| (104504299CRT-001a Data)                                   | _                                |        |
| Corrosion Type T                                           | 3.2.5                            | PASS   |
| (104504299CRT-001a Data)                                   | 5.2.5                            | PASS   |
| Conditioning (pre-dynamic strength) - Non-Textile Abrasion | 4.2.2.1.2                        | PASS   |
| (104504299CRT-001a Data)                                   | 4.2.2.1.2                        | PASS   |
| Dynamic Strength Test- Type T                              | 4.2.2.2.4                        | PASS   |
| Residual Dynamic Strength-Type T                           | 4.2.3.2                          | PASS   |
| Static Strength Test- Type T                               | 4.2.1.2                          | PASS   |
| (104504299CRT-001a Data)                                   | 4.2.1.2                          | PASS   |
| Serviceability Static Load Test- Type T                    | 4.2.4.2                          | PASS   |
| (104504299CRT-001a Data)                                   | 4.2.4.2                          | PASS   |
| Markings and Instructions                                  | 5                                | PASS   |

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#### **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<br>COMPLETED BY: | Colin King           | REVIEWED BY: | Matthew Stevens |
|-------------------------|----------------------|--------------|-----------------|
| TITLE:                  | Sr. Technical Writer | TITLE:       | Team Leader     |
| SIGNATURE:              |                      | SIGNATURE    | Alf-Ship        |
| DATE:                   | May 4, 2022          | DATE:        | May 16, 2022    |

Please see attached test data for details.

Date: May 16, 2022

# **SECTION 3**

# **TESTING EQUIPMENT CALIBRATION INFORMATION**

| USED<br>FOR TEST | DESCRIPTION            | MANUFACTURER | CONTROL<br>NO. | MODEL<br>NO. | SERIAL<br>NO. | CAL.<br>DATE | CAL. DUE |
|------------------|------------------------|--------------|----------------|--------------|---------------|--------------|----------|
| X                | Drop Test<br>Structure | Intertek     | NA             | CAT. 3       | -             | N/A          | N/A      |
| X                | Test Dead<br>Weight    | NA           | 15064          | 282 lbs      | -             | VBU          | VBU      |
| X                | Load Cell              | Interface    | G139           | -            | -             | 5/28/20      | 5/28/21  |

| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                        | RESULTS                                                                                                                                     | COMPLIANCE |  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
| 3                 | Design Requirements                                                                                                                                                                                |                                                                                                                                             | PASS       |  |
|                   |                                                                                                                                                                                                    | Connection points shall meet the following requirements:  A) A connection point shall support only one user or system at a time.            |            |  |
|                   | B) A connection point eye be closed eye with a mir                                                                                                                                                 | on a type T anchorage connector shall nimum 1" inside radius.                                                                               | PASS       |  |
| 3.1.1             | connectors shall not have                                                                                                                                                                          | orage connectors, anchorage ve closed loops that are not intended on for, a connection point.                                               | PASS       |  |
|                   | D) Anchorage connectors t buckle, adjuster or othe shall use hardware that that standard.                                                                                                          | PASS                                                                                                                                        |            |  |
|                   | E) Multiple connection poi and davit style anchorag                                                                                                                                                | nts shall only be permitted on tripod ge connectors.                                                                                        | PASS       |  |
| 3.1.2             | Anchorage connector surfaces that can come in contact with other components shall be free of burrs, pits, sharp corners and roughness that could accelerate cutting or abrading of the components. |                                                                                                                                             | PASS       |  |
| 3.1.3.1           | ·                                                                                                                                                                                                  | Corrosion Resistance: all hot-dip galvanized steel shall conform with ASTM A123/A123M, standard specification for Zinc (hot-dip galvanized) |            |  |
| 3.1.3.2.1         | Type A and Type T: load bearing anchorage connectors shall main temperatures between -30 degree or be engineered to account for temperatures. Metallic componers meeting ANSI Z359.12 are deep     | PASS                                                                                                                                        |            |  |
| 3.1.3.2.2         | Type D anchorage connectors sha<br>service temperature of -10 degre<br>made of materials specified in se                                                                                           | NA                                                                                                                                          |            |  |
| 3.1.3.2.3         | Where a type D anchorage connected temperatures below -10 degrees verify the anchorage connector wanufacturers instructions.                                                                       | F (-23 C), a qualified person shall                                                                                                         | NA         |  |

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| SECTION<br>(TEST) | REQUIREMENT RESULTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COMPLIANCE |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 3.1.3.3           | Finishes: hardware finishes shall be clean and free of scale, rust and deposits of foreign material other than applied protective coatings.                                                                                                                                                                                                                                                                                                                                                                                                                                       | PASS       |
| 3.1.3.4           | Welded Assembly: When components are welded, the welding shall meet ANSI/AWS D1.1 for steel, ANSI/AWS D1.2 for aluminum and ANSI/AWS D1.6 for stainless steel.                                                                                                                                                                                                                                                                                                                                                                                                                    | PASS       |
| 3.1.3.5           | Fasteners: Manufacturer shall provide or specify fasteners for connecting an anchorage connector to an anchorage in its intended application. Information must be included in the user instructions.                                                                                                                                                                                                                                                                                                                                                                              | PASS       |
| 3.1.4.1           | Textiles shall not contain natural fibers, and shall be made of pure non-recycled synthetic material, having strength, aging, abrasion and heat resistance characteristics equivalent or superior to polyamide or polyester and shall be marked with any restrictions.                                                                                                                                                                                                                                                                                                            | PASS       |
| 3.1.4.2           | Stitching/Cutting: If a subsystem uses stitching for connection of load bearing components it shall meet the following requirements:  A) Use lock stitching  B) Secure the end of threads by backstitching, overlapping stitching or other methods.  C) Threads used for sewing shall be physically compatible with the webbing and of a quality comparable to that of the webbing.  D) Hot-cut or fuse thermoplastic materials, cord, tape and webbing to prevent fraying.  E) The tread color or shade shall contrast with that of the webbing to facilitate visual inspection. | NA         |
| 3.1.5.1           | Other load bearing materials used in anchorage connectors shall meet the performance requirements of ANSI Z359.18-2017.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PASS       |
| 3.1.5.2           | Integrally connected components to which another standard in the ANSI Z359 series exists shall meet the requirements of ANSI Z359.18-2017.                                                                                                                                                                                                                                                                                                                                                                                                                                        | PASS       |

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| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         | RESULTS                                                                                  |                         | COMPLIANCE |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------|------------|
| 3.2.2.2/4.2.2.2.4 | Dynamic Strength (Type T Anchor):  A) Install anchorage connector, con requirements of 4.2.2.1.2 or 4.2 with 4.1.2  B) Connect one end of the test lany anchorage connector to be loaded instrumentation.  C) Connect the other end of the test 4.1.3  D) Raise the test weight to achieve a series the test weight by means.  F) Evaluate the test results per 3.2.3 | 2.1.3 on the tes ard to the connid or to the arre t lanyard to the a free-fall distar s of quick releas | t anchorage in<br>ection point o<br>st force measo<br>test weight sp<br>ace of 3' (+0.1) | f the uring pecified in | PASS       |
|                   | Dynamic Strength Test                                                                                                                                                                                                                                                                                                                                                 | SAMPLE:                                                                                                 | SAMPLE:                                                                                  | SAMPLE:                 |            |
|                   | Anchorage connector successfully arrest the test weight?                                                                                                                                                                                                                                                                                                              | YES                                                                                                     | YES                                                                                      | YES                     |            |
|                   | If deformation occurred did it create more than 1/8" (3mm) between gate and body?                                                                                                                                                                                                                                                                                     | N/A                                                                                                     | N/A                                                                                      | N/A                     |            |
|                   | MAF (Ref Only) Lbs.                                                                                                                                                                                                                                                                                                                                                   | 3418                                                                                                    | 3534                                                                                     | 3621                    |            |
|                   |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |                                                                                          |                         |            |

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| SECTION<br>(TEST) | REQUIREMENT                                                                         |                                                                                                                                                                                                                                                                       | RESULTS      |         | COMPLIANCE |
|-------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|------------|
|                   | without further conditioning and 2. Must support the test weight an advinamic drop. | <ol> <li>Repetition of the test specified in 4.2.2.1 using same anchorage connector without further conditioning and the same test lanyard used in first test.</li> <li>Must support the test weight an additional minute after the residual dynamic drop.</li> </ol> |              |         |            |
|                   | Residual Dynamic Strength                                                           | SAMPLE:<br>1                                                                                                                                                                                                                                                          | SAMPLE:<br>2 | SAMPLE: |            |
|                   | Anchorage connector successfully arrest the test weight?                            | YES                                                                                                                                                                                                                                                                   | YES          | YES     |            |
| 2221/4222         | Maintain the test weight for a period of at least 1 minute?                         | YES                                                                                                                                                                                                                                                                   | YES          | YES     | PASS       |
| 3.2.3.1/4.2.3.2   | If deformation occurred did it create more than 1/8" (3mm) between gate and body?   | N/A                                                                                                                                                                                                                                                                   | N/A          | N/A     | PASS       |
|                   |                                                                                     |                                                                                                                                                                                                                                                                       |              |         |            |

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| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                | RESULT                                              | 'S           | COMPLIANCE |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------|------------|
| 3.2.1.1/4.2.1.2   | Static Strength Test for Type T Anchorage Connectors:  A) A new anchorage connector may be used for each test.  B) Test force shall be 5,000 pounds (+50/-0)  C) Install anchorage connector on the test anchorage in accordance with requirements of 4.1.2.  D) Apply load to the anchorage connector in the direction(s) of loading specified in 4.1.2.5.  E) Apply load at no greater than 2"/min and maintain 5,000 pound test load for at least 3 minutes.  F) Release load  G) Evaluate the test results per 3.2.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |                                                     |              |            |
|                   | Static Strength Requirements  Anchorage resist the test load?  If deformation occurred did it create more than 1/8" (3mm) between gate and body?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | YES NA                                                         | YES NA                                              | YES NA       |            |
| 3.2.1.1/4.2.4.2   | Serviceability Load for Type T Ancho A new anchorage connector Test force shall be greater (Whichever is Greater) Install anchorage connector requirements of 4.1.2. Apply load at no greater the minutes. Release load Evaluate the test results possible to the state of the state o | or may be used than twice the or on the test an an 90lbs/min a | for each test.<br>work load or 2<br>nchorage in acc | ordance with | PASS       |

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| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                                                                                                                   | COMPLIANCE |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 5                 | Marking and Instruction Requirements                                                                                                                                                                                                                                                          | PASS       |
|                   | The following marking shall appear in English on the label, marking or tag that is designed to last for the lifetime of the anchorage connector and is permanently affixed to the anchorage connector:  A) The manufacture's name or mark                                                     | PASS       |
|                   | B) The year of manufacture                                                                                                                                                                                                                                                                    | PASS       |
|                   | C) Model number                                                                                                                                                                                                                                                                               | PASS       |
| 5.1.1             | D) "ANSI Z359.18 and the type                                                                                                                                                                                                                                                                 | PASS       |
|                   | E) Marking to indicate restrictions on directions of loading, if applicable                                                                                                                                                                                                                   | PASS       |
|                   | F) Where specified by the manufacturer, the working load.                                                                                                                                                                                                                                     | PASS       |
|                   | G) An individual serial number or a lot or batch number that provides traceability                                                                                                                                                                                                            | PASS       |
|                   | H) Minimum breaking strength followed by "MBS"                                                                                                                                                                                                                                                | PASS       |
| 5.1.2             | As required for the specific anchorage connector, the following marking shall appear in English on a label, marking or tag that is designed to last for the lifetime of the anchorage connector and is permanently affixed to the anchorage connector.                                        | PASS       |
| 5.1.2.1           | Anchorage connector that incorporates a closed loop not intended for connection, but may be mistake for a connection point shall be permanently labeled with a warning not to connect a fall protection system or suspended component to the closed loop when used in a cinching application. | PASS       |
| 5.1.2.2           | For type D anchorage connectors only, any information that is needed for clearances calculations and anchorage strength identification                                                                                                                                                        | PASS       |
| 5.1.2.3           | The minimum service temperature the anchorage connector according to 3.1.3.2                                                                                                                                                                                                                  | PASS       |
| 5.1.2.4           | For tripods and davit systems, the maximum number of users permitted on the system.                                                                                                                                                                                                           | PASS       |
| 5.2               | Instruction Requirements                                                                                                                                                                                                                                                                      | PASS       |
| 5.2.1             | Instruction and information shall be provided in English with each anchorage connector.                                                                                                                                                                                                       | PASS       |

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| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COMPLIANCE |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 5.2.1.1           | Overall:  A) A statement that the anchorage connector has been tested in compliance with the requirements of ANSI/ASSE Z359.7, and caution that the ANSI compliance and testing covers only the hardware and does not extend to the anchorage and substrate w=to which the anchorage connector is attached.  B) Specifications for appropriate anchorage(s) to which the anchorage connector can be attached, including instructions on how to proceed when the user is unable to determine whether the anchorage meets the manufactures specification and instructions that the anchorage connector shall only be connected to anchorages that:  i) Can withstand 5,000 pounds without failure, except that lower strengths are acceptable when permitted by applicable legislation  ii) Are certified by a professional engineer as having the required strength for fall arrest or travel restraint, as applicable  iii) The manufacturer may provide specifications of allowable materials including the minim shapes, sizes and geometry of structural elements to which the anchors connector may be fastened  C) The manufacturer shall clearly label the minimum service temperature for the anchorage connector according to 3.1.3.2.  D) The manufacturer shall supply complete specifications for fasteners  E) The anchorage connector type | PASS       |

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| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COMPLIANCE |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 5.2.1.1           | Overall:  F) The permitted uses of the anchorage connector G) The connection point(s), working load limit H) The material used in the anchorage connectors construction I) The length of the anchorage connector and any other dimensions that may affect its compatibility with anchorages to which it may be connected.  J) The manufacturer shall make available upon request information for the design of systems, such as AAF and/or force vs. displacement curve(s) for the device. K) A statement that only one fall protection system or positioning system may be attached to an individual connection point L) Specification providing the intended direction(s) of loading of the anchorage connector M) A complete list of the anchorage connector components provided by the manufacturer at the time of sale N) A warning against unauthorized alterations, relocations or additions to the anchorage connector                                                                                                                                                                | PASS       |
| 5.2.1.2           | Use:  A) Instructions on proper installation and use, including, but not limited to, compatibility with other fall protection components  B) The length of the anchorage connector and any other dimensions that may affect its compatibility with anchorages to which it may be connected  C) Where applicable, directions regarding the appropriate length of lanyard to use with the anchorage connector to compensate for the additional length that it may add to the lanyard. (Instructions to include the length of anchorage connector, manner of use and location relative to working surface in the calculation of fall clearance).  D) Permitted and forbidden uses, including clear description of and the recommended ways of dealing with the applicable compatibility concerns  E) A warning to remove any surface contamination such as concrete, stucco, roofing material, etc., that could accelerate the cutting or abrading of attached components  F) Warnings concerning environments and conditions that may degrade the anchorage connector  G) Training requirements | PASS       |

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| SECTION<br>(TEST) | REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COMPLIANCE |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 5.2.1.3           | Inspection and Field Testing:  A) Instructions on testing, if needed B) Where applicable, directions for the installer to perform and document proof testing upon installation. Directions shall include proof load forces and acceptable methods C) Field serviceability testing: The manufacturer shall provide guidelines for how often field load testing must be undertaken to prove that the anchorage connector continues to be adequately secured to the structure. These guidelines shall include recommended methods for testing, including the direction and point of application of test loads D) The recommended frequencies and procedures for inspection, maintenance, and when applicable, testing E) Instructions for inspecting and servicing an anchorage connector after it is subjected to a fall or an inspection reveals an unsafe condition F) If applicable, guidelines for the retirement of the anchorage connector G) The action to be taken if an inspection of the anchorage connector reveals an unsafe condition H) The action to be taken after the anchorage connector is subjected to a fall Criteria for removal of an anchorage connector from service if deformed from its original installed configuration | PASS       |
| 5.2.1.4           | Clinching and Non-Clinching Style Anchorage Connectors:  A) Where the anchorage connector includes an abrasion pad, provide directions that the abrasion pad shall be installed between the anchorage and the lead bearing loop  B) The proper method of installing the anchorage connector including, as applicable for non-clinching anchorage connectors. The maximum angle permitted between the connection legs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PASS       |

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# **SECTION 5**

#### **REVISION HISTORY**

| REPORT NUMBER    | DATE OF<br>REVISION | DESCRIPTION OF CHANGE:                      | PROJECT<br>OWNER | REVIEWED BY     |
|------------------|---------------------|---------------------------------------------|------------------|-----------------|
| 104608172CRT-002 | 5/10/21             | Original Report                             | Theodore Brown   | Matthew Stevens |
| 105057246CRT-002 | 5/5/22              | Report Extension                            | Steve Morey      | Matthew Stevens |
| 105057246CRT-002 | 5/16/22             | Address Change<br>& INC changed<br>from LLC | Steve Morey      | Matthew Stevens |

Date: May 16, 2022

