Declaration of Conformity

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

Declaration #: DOC-UFA30031
Declaration Date: 09/12/2024

Item #: UFA30031

Description: KStrong® 4-way Anchor Plate

Brand Name: KStrong

Manufacturer: KStrong

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

Additional Items Conforming Under this Declaration (If Applicable):

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

ANSI Z359.18 – 2017

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-UFA30031-SA70-temp.pdf

This Certificate is a guarantee that the above standard(s) was met by the requirements of such standard. Testing was performed under normal operation mode. The results of testing apply only to the particular sample tested and the specific test carried out. This Certificate is only issued for products which have passed the testing requirements of listed standard(s).

Authorized Signature:

John H. Kemp Jr.
President - KStrong

ISO 17025 Accredited Test Laboratory

Intertek Testing Services NA, Inc.
3933 US Rt. 11
Cortland, NY 13045
Tel: 1 607-753-6711
www.intertek.com

Accrediting Agency

A2LA
5202 Presidents Court, Ste 220
Frederick, MD 21703
Tel: 301.644.3248
info@A2LA.org

intertek
Total Quality. Assured.

PN INTERNATIONAL PRIVATE LIMITED

TEST REPORT

SCOPE OF WORKs
ANSI Z359.18 – 2017 Safety Requirements for Anchorage Connectors for Active Fall Protection Systems

REPORT NUMBER
105940655CRT-001

ISSUE DATE
September 12, 2024

PAGES
9

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

3933 US Route 11
Cortland, New York ,USA
13045
Telephone: 607-758-6246
Facsimile: NA
www.intertek.com

TEST REPORT FOR PN INTERNATIONAL PRIVATE LIMITED
Report No.: 105940655CRT-001
Date: September 12, 2024

PN International Private Limited
Pragya Awasthi
C-12 Amausi Industrial
Area,Nadar
Gunj
Lucknow 226008
India
Pragya.awasthi@karam.in

Phone: 91522243801

Report Number..... : 105940655CRT-001

Signed Quote Number..... : Qu-01442633

PO Number..... N/A

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

Test Specification:

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

Date(s) of Testing..... : 09/10/2024 – 09/11/2024

Product Description:

Product Type: ..... : Anchor

Brand Name: ..... : Karam

Model Number(s): ..... : SA 70

Model Sharing ..... : N/A

Date(s) Samples Received ..... : 6/26/24

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Design Requirements	3	PASS
Conditioning (Pre Dynamic Strength) Non Textile Abrasion	4.2.2.1.2	PASS
Dynamic Strength Test- Type A	4.2.2.1.4	PASS
Residual Dynamic Strength- Type A	4.2.3.1	PASS
Static Strength Test (Per loading direction)	4.2.1.1	PASS

SECTION 2

This test report concludes the work anticipated in the testing phase of your project. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

COMPLETED BY:	Alex Smith	**REVIEWED BY:**	Matthew Stevens
TITLE:	Technician	**TITLE:**	Team Leader
SIGNATURE:		**SIGNATURE**	
DATE	09/12/2024	**DATE:**	09/12/2024

Please see attached test data for details.

SECTION 3
TESTING EQUIPMENT CALIBRATION INFORMATION

USED FOR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
X	Drop Test Structure	Intertek	NA	CAT. 3	-	N/A	N/A
X	Test Dead Weight	NA	15064	282 lbs	-	VBU	VBU
X	Load Cell	Interface	L099	-	-	10/27/23	10/27/24
X	Load Cell	Interface	G139	-	-	03/21/24	03/21/25
X	Tape Measure	Kobalt	H422	-	-	07/02/24	07/02/25

SECTION 3
SUPPLEMENTAL TEST DATA

SECTION (TEST)	REQUIREMENT	RESULTS	COMPLIANCE
3	Design Requirements		**PASS**
3.1.1	Connection points shall meet the following requirements: A) A connection point shall support only one user or system at a time.		**PASS**
	B) A connection point eye on a type T anchorage connector shall be closed eye with a minimum 1" inside radius.		
	C) Except for cinching anchorage connectors, anchorage connectors shall not have closed loops that are not intended for, or could be mistaken for, a connection point.		**PASS**
	D) Anchorage connectors that include an operable gate, rings, buckle, adjuster or other hardware covered by ANSI Z359.12 shall use hardware that compiles with the requirements of that standard.		**PASS**
	E) Multiple connection points shall only be permitted on tripod and davit style anchorage connectors.		**N/A**
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) Coatings on iron and steel products.		**PASS**
3.1.3.2.1	Type A and Type T: load bearing metallic materials used in the anchorage connectors shall maintain adequate toughness at temperatures between -30 degrees F (-34C) and +130 degrees F (+54C) or be engineered to account for the reduced toughness at low temperatures. Metallic components that have been tested and certified as meeting ANSI Z359.12 are deemed to comply with this section.		**PASS**
3.1.3.2.2	Type D anchorage connectors shall be clearly labeled with a minimum service temperature of -10 degrees F (-23 C) if load bearing parts are made of materials specified in sections 3.1.3.2.2		**N/A**
3.1.3.2.3	Where a type D anchorage connector is allowed to be used in temperatures below -10 degrees F (-23 C), a qualified person shall verify the anchorage connector will perform as specified per the manufacturers instructions.		**N/A**

SECTION (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.		**N/A**
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.		**N/A**
3.1.5.1	Other load bearing materials used in anchorage connectors shall meet the performance requirements of ANSI Z359.18-2017.		**N/A**
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.		**N/A**

<table>
<tr><th>SECTION (TEST)</th><th>REQUIREMENT</th><th>RESULTS</th><th>COMPLIANCE</th></tr>
<tr><td>3.2.2.2/4.2.2.2.4</td><td colspan="2"><u>Dynamic Strength (Type of Anchor)</u> :
A) Install anchorage connector, conditioned according the applicable requirements of 4.2.2.1.2 or 4.2.2.1.3 on the test anchorage in accordance with 4.1.2
B) Connect one end of the test lanyard to the connection point of the anchorage connector to be loaded or to the arrest force measuring instrumentation.
C) Connect the other end of the test lanyard to the test weight specified in 4.1.3
D) Raise the test weight to achieve a free-fall distance of 3’ (+0.1/-0).
E) Release the test weight by means of quick release mechanism.
F) Evaluate the test results per 3.2.2.1</td><td>PASS</td></tr>
</table>

Dynamic Strength Test	SAMPLE: 1	SAMPLE: 2	SAMPLE: 3
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?	NO	NO	NO
MAF (Ref Only) Lbs.	2,593	2,610	2,588

<table>
<tr>
<td>3.2.3.1/4.2.3.2</td>
<td>
<u>Residual Dynamic Strength Test:</u>
1. <u>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.</u>
2. <u>Must support the test weight an additional minute after the residual dynamic drop.</u>
3. <u>Evaluate the test results per 3.2.3.1</u>
<table>
<tr><th>Residual Dynamic Strength</th><th>SAMPLE: 1</th><th>SAMPLE: 2</th><th>SAMPLE: 3</th></tr>
<tr><td>Anchorage connector successfully arrest the test weight?</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Maintain the test weight for a period of at least 1 minute?</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>If deformation occurred did it create more than 1/8” (3mm) between gate and body?</td><td>NO</td><td>NO</td><td>NO</td></tr>
<tr><td>MAF (Ref Only) Lbs.</td><td>3,291</td><td>3,209</td><td>3,222</td></tr>
</table>
</td>
<td>PASS</td>
</tr>
</table>

<table>
<tr>
<td>3.2.1.1/4.2.1.2</td>
<td>
<u>Static Strength Test for Type of Anchorage Connectors:</u>
A) <u>A new anchorage connector may be used for each test.</u>
B) <u>Test force shall be 5,000 pounds (+50/-0)</u>
C) <u>Install anchorage connector on the test anchorage in accordance with requirements of 4.1.2.</u>
D) <u>Apply load to the anchorage connector in the direction(s) of loading specified in 4.1.2.5.</u>
E) <u>Apply load at no greater than 2”/min and maintain 5,000 pound test load for at least 3 minutes.</u>
F) <u>Release load</u>
G) <u>Evaluate the test results per 3.2.1.1</u>

<table>
<tr><th>Static Strength Requirements</th><th>SAMPLE 3</th><th>SAMPLE 4</th><th>SAMPLE 5</th></tr>
<tr><td>Anchorage resist the test load?</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>If deformation occurred did it create more than 1/8” (3mm) between gate and body?</td><td>NO</td><td>NO</td><td>NO</td></tr>
</table>
</td>
<td>PASS</td>
</tr>
</table>

SECTION 5

REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
105940655CRT-001	09/12/2024	Original Report	Alex Smith	Matthew Stevens

SECTION 6
PHOTOGRAPH