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FRONTLINE FALL PROTECTION
TEST REPORT

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

REPORT NUMBER
105556094CRT-001

ISSUE DATE
8/31/2023

PAGES
7

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TEST REPORT FOR FRONTLINE FALL PROTECTION

Report No.: 105556094CRT-001
Date: August 31, 2023

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Report Number..... : 105556094CRT-001

Signed Quote Number..... : Qu-01375375

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..... : 8/30/2023

Product Description:

Product Type: ..... : Concrete Swiveling Anchor

Brand Name: ..... : Frontline

Model Number(s): ..... : COB01SW Used w/ ½" Concrete Bolt

Date(s) Samples Received ..... : 8/21/2023

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Static Strength Test (Per loading direction)	4.2.1.2	PASS
A Dynamic Strength Test- Type A	4.2.2.2.4	PASS
Residual Dynamic Strength- Type A	4.2.3.2	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	8/31/2023	**DATE:**	8/31/2023

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	G139	-	-	11/15/22	11/15/23
X	Load Cell	Interface	L099	-	-	5/25/22	5/25/23
X	Tape Measure	Stanley	N1392	25'	-	2/14/23	2/14/24

SECTION 3
SUPPLEMENTAL TEST DATA

<table>
<tr><th>SECTION (TEST)</th><th>REQUIREMENT</th><th colspan="3">RESULTS</th><th>COMPLIANCE</th></tr>
<tr><td rowspan="5">3.2.2.2/4.2.2.2.4</td><td colspan="4"><u>Dynamic Strength (Type A 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 rowspan="5">PASS</td></tr>
<tr><td>Dynamic Strength Test</td><td>SAMPLE: 1</td><td>SAMPLE: 2</td><td>SAMPLE: 3</td></tr>
<tr><td>Anchorage connector successfully arrest the test weight?</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>N/A</td><td>N/A</td><td>N/A</td></tr>
<tr><td>MAF (Ref Only) Lbs.</td><td>2792</td><td>3520</td><td>3560</td></tr>
</table>

<table>
<tr><th>SECTION (TEST)</th><th>REQUIREMENT</th><th colspan="4">RESULTS</th><th>COMPLIANCE</th></tr>
<tr><td rowspan="6">3.2.3.1/4.2.3.1</td><td colspan="4"><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></td><td rowspan="6">PASS</td></tr>
<tr><td>Residual Dynamic Strength</td><td>SAMPLE: 1</td><td>SAMPLE: 2</td><td>SAMPLE: 3</td></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>N/A</td><td>N/A</td><td>N/A</td></tr>
<tr><td>MAF (Ref Only) Lbs.</td><td>3541</td><td>4252</td><td>3583</td></tr>
</table>

<table>
<tr><th>SECTION (TEST)</th><th>REQUIREMENT</th><th>RESULTS</th><th>COMPLIANCE</th></tr>
<tr><td>3.2.1.1/4.2.3.2</td><td><u>Static Strength Test for Type A 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>NA</td><td>NA</td><td>NA</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
105556094CRT-001	8/31/2023	Original Report	Alex Smith	Matthew Stevens

SECTION 6
PHOTOGRAPH