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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
105207931CRT-001

ISSUE DATE
10/14/2022

PAGES
7

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

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TEST REPORT FOR FRONTLINE FALL PROTECTION

Report No.: 105207931CRT-001
Date: October 14, 2022

FRONTLINE FALL PROTECTION
Andres Betancourt
2023 NW 84th Ave
Miami, FL 33122
USA
andres@frontlinefall.com

Ph: +1 (888) 523-1795

Report Number..... : 105207931CRT-001

Signed Quote Number..... : Qu-01302314-0

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..... : 10/09/2022-10/13/2022

Product Description:

Product Type: ..... : Anchor

Brand Name: ..... : Frontline

Model Number(s): ..... : SBW01 Steel Bolt on

Additional Model(s) Covered:..... : SBW01 Steel Weld on

Date(s) Samples Received ..... : 9/06/2022

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Static Strength Test (Per loading direction)	4.2.1.1	PASS
Conditioning (pre dynamic strength)-Non Textile Abrasion	4.2.2.1.2	PASS
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:	Steve Morey	**REVIEWED BY:**	Matthew Stevens
TITLE:	Technician	**TITLE:**	Team Leader
SIGNATURE:		**SIGNATURE**	
DATE	10/14/2022	**DATE:**	10/14/2022

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	Load Cell	Interface	L099	-	-	11/11/21	11/11/22
X	Load Cell	Interface	G119	-	-	5/25/22	5/25/23
X	Tape Measure	Stanley	N1407	-	-	2/16/22	2/16/23

SECTION 3
SUPPLEMENTAL TEST DATA

3.2.2.2/4.2.2.2.4

Dynamic Strength (Type A) :

A) Install anchorage connector, conditioned according to 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

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.	3147	3171	3273

PASS

<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>3130</td><td>3147</td><td>3792</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 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>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
105207931CRT-001	10/14/2022	Original Report	Steve Morey	Matthew Stevens
105207931CRT-001	10/14/2022	Added Model Share	Steve Morey	Matthew Stevens

SECTION 6
PHOTOGRAPHS

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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
105207931CRT-002

ISSUE DATE
10/14/2022

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

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TEST REPORT FOR FRONTLINE FALL PROTECTION

Report No.: 105207931CRT-002
Date: October 14, 2022

FRONTLINE FALL PROTECTION
Andres Betancourt
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Report Number..... : 105207931CRT-002

Signed Quote Number..... : Qu-01302314-0

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..... : 10/09/2022-10/13/2022

Product Description:

Product Type: ..... : Anchor

Brand Name: ..... : Frontline

Model Number(s): ..... : SBW01 Concrete Bolt on

Date(s) Samples Received ..... : 9/06/2022

SECTION 1

SUMMARY OF TESTING

TESTS COMPLETED	ANSI/ASSP Z359.18-2017 CLAUSE	STATUS
Static Strength Test (Per loading direction)	4.2.1.1	PASS
Conditioning (pre dynamic strength)-Non Textile Abrasion	4.2.2.1.2	PASS
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:	Steve Morey	**REVIEWED BY:**	Matthew Stevens
TITLE:	Technician	**TITLE:**	Team Leader
SIGNATURE:		**SIGNATURE**	
DATE	10/14/2022	**DATE:**	10/14/2022

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	Load Cell	Interface	L099	-	-	11/11/21	11/11/22
X	Load Cell	Interface	G119	-	-	5/25/22	5/25/23
X	Tape Measure	Stanley	N1407	-	-	2/16/22	2/16/23

SECTION 3
SUPPLEMENTAL TEST DATA

3.2.2.2/4.2.2.2.4

Dynamic Strength (Type A) :

A) Install anchorage connector, conditioned according to 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

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.	3087	3196	3219

PASS

<table>
<tr>
<td>3.2.3.1/4.2.3.2</td>
<td>
<u>Residual Dynamic Strength Test:</u>

<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>
<u>Must support the test weight an additional minute after the residual dynamic drop.</u>
<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>3914</td><td>3177</td><td>3898</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 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>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
105207931CRT-002	10/14/2022	Original Report	Steve Morey	Matthew Stevens

SECTION 6
PHOTOGRAPHS