WITNESS TESTING REPORT

Hardline Laboratory

Report No.：TH10297A/2022
Page： 1 of 7
Date： MAR. 20, 2023

Frontline Fall Protection Inc
2023 NW 84TH AVE, Miami, FL 33122, United States

The following merchandise was submitted and identified by the applicant as:

Product Description: 6ft Webbing Self-Retracting lifeline / Dual 6ft Webbing Self-Retracting lifeline
Style/Item No.: RPA061R / RPA061S / RPA091TB /
RPA062R / RPA062RA / RPA062S / RPA092TB
Site of Witness: No. 88-8, Sec. 2, Zhongtou W. Rd., Wufeng Dist., Taichung City 41355, Taiwan
Additional Information: Test Witness: James Tsai.

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: Clause 3.1.5, 3.2.1, 3.2.3, 3.3.1, 3.3.2, 3.5.1, 3.6.1 & 3.6.2 of ANSI/ASSP Z359.14-2021, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems.

Test Method: ANSI/ASSP Z359.14-2021, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems.

Test of Samples: Device Classes: Class 1

Test Result: --See following sheet(s)--

Testing Period: JAN. 07, 2022 ~ FEB. 18, 2022

Conclusion: The submitted sample **complies with** clause 3.1.5, 3.2.1, 3.2.3, 3.3.1, 3.3.2, 3.5.1, 3.6.1 & 3.6.2 of ANSI/ASSP Z359.14-2021, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems.

Note: This test report is extended from the original one TH10297/2022, issued on MAR. 10, 2022.

Signed for and on behalf of
SGS Taiwan Ltd.

Luke Lee
Supervisor

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Test Method & Results:

<table>
<tr><th>Clauses</th><th>Test Item/Results</th><th>Compliance</th></tr>
<tr><td>3.1.5</td><td>Corrosion Protection
Corrosion protection shall be afforded to all elements (parts) of self-retracting devices. Protection shall, at a minimum, allow the device to operate as intended and show no signs of corrosion which, if left unchecked, could result in corrosion-related failure of the device after being salt spray (fog) tested for 96 hours in accordance with the method described in the reference in 7.4. After the salt spray test, the line shall pay out, retract and lock. Retraction tension shall be as specified in 3.5.
<table>
<tr><td colspan="2">Test item</td><td>Observation</td></tr>
<tr><td colspan="2">Operate as intended:</td><td>Yes</td></tr>
<tr><td colspan="2">Signs of corrosion (visual check):</td><td>No</td></tr>
<tr><td colspan="2">Line pay out, retract and lock:</td><td>Yes</td></tr>
<tr><td rowspan="3">Retraction tension:
1.25~25 lbf</td><td>1 foot:</td><td>2.42 lbf</td></tr>
<tr><td>50%:</td><td>4.54 lbf</td></tr>
<tr><td>100%:</td><td>7.04 lbf</td></tr>
</table></td><td>Pass</td></tr>
<tr><td>3.2.1</td><td>Static Strength of Self-Retracting Devices (SRDs)
When tested in accordance with 4.2.1, SRDs shall withstand, without breaking, a load of 3,600 pounds (16kN) when statically applied.
<table>
<tr><td>Test item</td><td>Observation</td></tr>
<tr><td>Static test:</td><td>No breaking and withstand the load.</td></tr>
</table></td><td>Pass</td></tr>
<tr><td>3.2.3</td><td>Locking Strength
When tested in accordance with 4.2.3, devices not featuring a rotary brake energy management system, shall withstand, without breaking and releasing the load, a minimum static load of 1,800 pounds (8kN).
<table>
<tr><td>Test item</td><td>Observation</td></tr>
<tr><td>Locking strength:</td><td>No breaking and withstand the load.</td></tr>
</table></td><td>Pass</td></tr>
</table>

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<table>
<tr><th>Clauses</th><th>Test Item/Results</th><th>Compliance</th></tr>
<tr><td>3.3.1</td><td>
Dynamic Performance of SRDs
For all SRDs, when tested in accordance with 4.3.1:
3.3.1.1 Locking function shall operate in accordance with 3.1.2.
3.3.1.2 The device shall pay out and retract the line in accordance with 3.5 after each dynamic performance test. SRL-Ps and Class 2 SRDs are excluded from this requirement.
3.3.1.3 The visual indicator shall activate when dynamic performance is tested, providing clear evidence that the device has been impact loaded.
3.3.1.4 The maximum arrest force shall not exceed 1,800 pounds (8kN), the average arrest force shall not exceed 1,350 pounds (6kN) and the arrest distance shall not exceed 42 inches (1,067mm) under ambient conditions.
3.3.1.5 The maximum arrest force shall not exceed 1,800 pounds (8kN), the average arrest force shall not exceed 1,575 pounds (7kN) and the arrest distance shall not exceed 42 inches (1,067mm) under hot, cold or wet conditions. New SRDs shall be used for each conditioning procedure.
<table>
<tr><th rowspan="2" colspan="2">Test item</th><th colspan="4">Observation</th></tr>
<tr><th>Ambient</th><th>Hot</th><th>Cold</th><th>Wet</th></tr>
<tr><td colspan="2">Locking function:</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td colspan="2">Pay out and retract:</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td rowspan="3">Retraction tension:
1.25~25 lbf</td><td>1 foot:</td><td>3.56 lbf</td><td>2.55 lbf</td><td>3.11 lbf</td><td>3.77 lbf</td></tr>
<tr><td>50%:</td><td>4.54 lbf</td><td>4.49 lbf</td><td>3.97 lbf</td><td>5.57 lbf</td></tr>
<tr><td>100%:</td><td>9.71 lbf</td><td>7.69 lbf</td><td>8.28 lbf</td><td>8.51 lbf</td></tr>
<tr><td colspan="2">Visual indicator:</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td colspan="2">Maximum arrest force:
≦1800 lbf</td><td>961.60 lbf</td><td>870.31 lbf</td><td>1045.72 lbf</td><td>994.89 lbf</td></tr>
<tr><td colspan="2">Average arrest force:
Ambient≦1350 lbf
Hot/Cold/Wet≦1575 lbf</td><td>754.75 lbf</td><td>676.06 lbf</td><td>782.49 lbf</td><td>749.20 lbf</td></tr>
<tr><td colspan="2">Arrest distance:
≦42 inches</td><td>20.0 inches</td><td>22.0 inches</td><td>17.7 inches</td><td>12.2 inches</td></tr>
</table>
</td><td>Pass</td></tr>
</table>

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<table>
<tr><th>Clauses</th><th>Test Item/Results</th><th>Compliance</th></tr>
<tr><td>3.3.2</td><td><u>SRL-Ps when tested in accordance with 4.3.2:</u>
3.3.2.1 Locking function shall operate in accordance with 3.1.2.
3.3.2.2 The visual indicator shall activate when dynamic performance is tested, providing clear evidence that the device has been impact loaded.
3.3.2.3 The maximum arrest force shall not exceed 1,800 pounds (8kN), under ambient conditions.
<table>
<tr><td>Test item</td><td>Observation</td></tr>
<tr><td>Locking function:</td><td>Yes</td></tr>
<tr><td>Visual indicator:</td><td>Yes</td></tr>
<tr><td>Maximum arrest force:
≦1800 lbf</td><td>953.84 lbf</td></tr>
</table></td><td>Pass</td></tr>
<tr><td>3.5.1</td><td>Retraction tension of the self-retracting device line, in addition to that required to retract the weight of the line constituent, shall not be less than 1.25 pounds (5.55N) or more than 25 pounds (111.1N) at any point in the range of motion provided by the line constituent when tested in accordance with 4.5.1. Additionally, Class 2 devices shall retract without stopping when tested in a horizontal orientation in accordance with 4.5.2.
<table>
<tr><td colspan="2">Test item</td><td>Observation</td></tr>
<tr><td rowspan="2">Retraction tension:
1.25~25 lbf</td><td>1 foot:
50%:
100%:</td><td>3.78 lbf
3.76 lbf
8.96 lbf</td></tr>
<tr><td colspan="2">Retract without stopping in horizontal (Class 2):</td><td>N/A</td></tr>
</table></td><td>Pass</td></tr>
<tr><td>3.6.1</td><td><u>Static Test, for Dual SRL-Ps</u>
Self-retracting lanyards, personal (SRL-Ps) featuring a dual configuration shall be tested in accordance with 4.6.1. Class 1 and 2 devices shall withstand, without breaking, a static load of 3,600 pounds (16kN). NOTE: Some self-retracting lanyard personal connectors contain sacrificial elements which facilitate energy absorber deployment. Breaking or cracking of the sacrificial element will not constitute a failure, provided that the energy absorber assembly can withstand the static load applied.
<table>
<tr><td>Test item</td><td>Observation</td></tr>
<tr><td>Static test:</td><td>Withstand the load and no breaking.</td></tr>
</table></td><td>Pass</td></tr>
</table>

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<table>
<tr><th>Clauses</th><th>Test Item/Results</th><th>Compliance</th></tr>
<tr><td>3.6.2</td><td><u>SRL-P Dual Connection</u>
SRL-Ps in dual configurations shall be tested according to 4.6.2. If the maximum arrest force exceeds 1,800 pounds (8kN), the markings and instructions must include warnings in accordance with 5.1.9. and 5.2.10.
<table>
<tr><td>Test item</td><td>Observation</td></tr>
<tr><td>Maximum arrest force:
≦1800 lbf</td><td>1554.13 lbf</td></tr>
</table></td><td>Pass</td></tr>
</table>

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Test equipment:

Description	Manufacturer	Model No.	Serial No.	Cal. Date
Laser distance meter	BOSCH	GLM40	122213512	2021/11/22
Environmental testing equipment	TERCHY	HEMB-120L	1080911	2021/3/24
Environmental testing equipment	TERCHY	HEMB-120L	1060910	2021/8/9
Universal Machine	NTS	LCX-100kN	18038	2021/3/24
Force guage	AIKOH	RX-10	D02639	2021/4/21
Load cell	JIHSENSE	LM-3T	90508	2021/7/14
Salt spray tester	-	DR-90	B-03-01	2021/8/9
PH meter	Lutron	PH-211	AJ.92507(B-03-02)	2020/9/25

Note：

1. The content of this report is invalid if it is not presented as the entire report.
2. The statement of conformity is based on the test results, but does not include the measurement uncertainty.
3. N/A = Not applicable; “--” = blank.

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– Picture(s) –

	
Photo “A” Appearance of sample	Photo “B” Appearance of sample

--- End of Report ---

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