

WITNESS TESTING REPORT

Hardline Laboratory

Report No. : TH40204F/2022

Page : 1 of 11

Date : NOV. 15, 2023

Frontline Fall Protection Inc

6 Lee Blvd, Malvern, PA 19355, USA (888) 523-1795

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

Product Description: Cable Self-Retracting lifeline with leading edge capability

Style/Item No.: RPGC65LE

Site of Witness:
1. No. 88-8, Sec. 2, Zhongtong W. Rd., Wufeng Dist., Taichung City, Taiwan
2. No. 61, Ln. 1265, Zhongzheng Rd., Jifeng Vil., Wufeng Dist., Taichung City, 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, 3.1.7, 3.3.3, 3.4 & 3.5.1 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 2

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

Testing Period: MAY 06, 2022 ~ MAY 13, 2022; SEP. 12, 2022 ~ SEP. 16, 2022

Conclusion: The submitted sample **complies with** clause 3.1.5, 3.1.7, 3.3.3, 3.4 & 3.5.1 of ANSI/ASSP Z359.14-2021, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems.

Signed for and on behalf of
SGS Taiwan Ltd.



Luke Lee
Supervisor



Testing Site: No. 9, 14th Rd., Taichung Ind. Park, Taichung City 40755, Taiwan

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Test Method & Results:

Clauses	Test Item/Results	Compliance																																
3.1.5	<p><u>Corrosion Protection</u></p> <p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Test item</th> <th colspan="3">Observation</th> </tr> <tr> <th style="width: 15%;">Sample #1</th> <th style="width: 15%;">Sample #2</th> <th style="width: 15%;">Sample #3</th> </tr> </thead> <tbody> <tr> <td>Operate as intended:</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td>Signs of corrosion (visual check):</td> <td style="text-align: center;">No</td> <td style="text-align: center;">No</td> <td style="text-align: center;">No</td> </tr> <tr> <td>Line pay out, retract and lock:</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td rowspan="3">Retraction tension: 1.25~25 lbf</td> <td>1 foot:</td> <td style="text-align: center;">1.42 lbf</td> <td style="text-align: center;">1.70 lbf</td> <td style="text-align: center;">1.36 lbf</td> </tr> <tr> <td>50%:</td> <td style="text-align: center;">1.65 lbf</td> <td style="text-align: center;">2.25 lbf</td> <td style="text-align: center;">1.97 lbf</td> </tr> <tr> <td>100%:</td> <td style="text-align: center;">3.13 lbf</td> <td style="text-align: center;">2.96 lbf</td> <td style="text-align: center;">2.98 lbf</td> </tr> </tbody> </table>	Test item	Observation			Sample #1	Sample #2	Sample #3	Operate as intended:	Yes	Yes	Yes	Signs of corrosion (visual check):	No	No	No	Line pay out, retract and lock:	Yes	Yes	Yes	Retraction tension: 1.25~25 lbf	1 foot:	1.42 lbf	1.70 lbf	1.36 lbf	50%:	1.65 lbf	2.25 lbf	1.97 lbf	100%:	3.13 lbf	2.96 lbf	2.98 lbf	Pass
	Test item		Observation																															
		Sample #1	Sample #2	Sample #3																														
	Operate as intended:	Yes	Yes	Yes																														
	Signs of corrosion (visual check):	No	No	No																														
	Line pay out, retract and lock:	Yes	Yes	Yes																														
	Retraction tension: 1.25~25 lbf	1 foot:	1.42 lbf	1.70 lbf	1.36 lbf																													
50%:		1.65 lbf	2.25 lbf	1.97 lbf																														
100%:		3.13 lbf	2.96 lbf	2.98 lbf																														
<p>Note:</p> <p>1.3 pcs of samples were tested.</p> <p>2.Sample #1 was tested at “No. 88-8, Sec. 2, Zhongtuo W. Rd., Wufeng Dist., Taichung City, Taiwan” with equipment calibrated according to table 1.</p> <p>3.Sample #2 and #3 were tested at “No. 61, Ln. 1265, Zhongzheng Rd., Jifeng Vil., Wufeng Dist., Taichung City, Taiwan” with equipment calibrated according to table 2.</p>																																		

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Clauses	Test Item/Results	Compliance											
3.1.7	<p>Class 2 Energy Absorber</p> <p>The line constituent of Class 2 devices shall include an integral energy absorber element adjacent to the end of the line which connects to the body support. The energy absorber shall meet the requirements of ANSI/ASSP Z359.13. Alternative energy absorber designs are allowed provided all performance requirements for Class 2 devices are satisfied including 3.2.1 with the alternative energy absorber included during the static test. If the Class 2 device housing(s) is intended to be connected to the full body harness and can only be used in this orientation, then an energy absorber is not required as part of the line constituent although an energy management system is still required.</p>	Pass											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 20%;">Test item</th> <th colspan="3" style="text-align: center;">Observation</th> </tr> <tr> <th style="width: 20%;">Sample #1</th> <th style="width: 20%;">Sample #2</th> <th style="width: 20%;">Sample #3</th> </tr> </thead> <tbody> <tr> <td>Static test:</td> <td style="text-align: center;">No breaking and withstand the load.</td> <td style="text-align: center;">No breaking and withstand the load.</td> <td style="text-align: center;">No breaking and withstand the load.</td> </tr> </tbody> </table>		Test item	Observation			Sample #1	Sample #2	Sample #3	Static test:	No breaking and withstand the load.	No breaking and withstand the load.	No breaking and withstand the load.
	Test item			Observation									
			Sample #1	Sample #2	Sample #3								
Static test:	No breaking and withstand the load.	No breaking and withstand the load.	No breaking and withstand the load.										
<p>Note:</p> <p>1.3 pcs of samples were tested.</p> <p>2.Sample #1 was tested at “No. 88-8, Sec. 2, Zhongtuo W. Rd., Wufeng Dist., Taichung City, Taiwan” with equipment calibrated according to table 1.</p> <p>3.Sample #2 and #3 were tested at “No. 61, Ln. 1265, Zhongzheng Rd., Jifeng Vil., Wufeng Dist., Taichung City, Taiwan” with equipment calibrated according to table 2.</p>													

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Clauses	Test Item/Results	Compliance
3.3.3	<p><u>Dynamic Performance for SRDs - Class 2</u> Class 2 SRDs shall be tested in accordance with 4.3.1 and 4.3.3: 3.3.3.1 The visual indicator shall activate when dynamic performance is tested, providing clear evidence that the device has been impact loaded. 3.3.3.2 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 be measured and included in labelling and in the manufacturer's instructions. See Section 5. 3.3.3.3 Dynamic performance testing shall be repeated for each conditioning procedure (hot, cold and wet). The maximum arrest force shall not exceed 1,800 pounds (8kN) and the average arrest force shall not exceed 1,575 pounds (7kN). 3.3.3.4 The constituent line shall be subjected to static testing following dynamic performance testing. Synthetic materials shall have a residual static strength of not less than 1,000 pounds (4.4kN) and wire rope shall withstand, without breaking, a load of no less than 675 pounds (3kN).</p>	Pass

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Clauses	Test Item/Results	Compliance		
3.3.3	SRL Line Orientation: Perpendicular			
	Test item	Ambient		
		Sample #1	Sample #2	Sample #3
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	962.84	1083.0	1180.0
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	698.97	712.0	681.7
	Arrest distance:	112.2	105.9	107.0
	Constituent line static test:	No breaking	No breaking	No breaking
	SRL Line Orientation: Perpendicular			
	Test item	Hot		
		Sample #4	Sample #5	Sample #6
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	959.04	1062.1	1138.6
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	678.01	676.9	670.7
Arrest distance:	113.4	108.3	109.9	
Constituent line static test:	No breaking	No breaking	No breaking	
			Pass	

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Clauses	Test Item/Results	Compliance		
3.3.3	SRL Line Orientation: Perpendicular			
	Test item	Cold		
		Sample #7	Sample #8	Sample #9
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	1047.42	1009.5	1169.2
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	777.35	750.3	758.7
	Arrest distance:	99.6	88.5	89.0
	Constituent line static test:	No breaking	No breaking	No breaking
	SRL Line Orientation: Perpendicular			
	Test item	Wet		
		Sample #10	Sample #11	Sample #12
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	1089.40	1226.5	1000.4
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	763.39	748.4	749.7
Arrest distance:	107.1	93.7	93.3	
Constituent line static test:	No breaking	No breaking	No breaking	
			Pass	

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Clauses	Test Item/Results	Compliance		
3.3.3	SRL Line Orientation: 5 ft offset			
	Test item	Ambient		
		Sample #13	Sample #14	Sample #15
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	1063.96	1155.7	1133.6
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	694.59	700.6	700.2
	Arrest distance:	115.4	110.4	108.5
	Constituent line static test:	No breaking	No breaking	No breaking
	SRL Line Orientation: 5 ft offset			
	Test item	Hot		
		Sample #16	Sample #17	Sample #18
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	1177.47	988.6	1123.2
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	670.70	663.5	674.2
Arrest distance:	115.9	113.7	112.0	
Constituent line static test:	No breaking	No breaking	No breaking	
			Pass	

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Clauses	Test Item/Results	Compliance		
3.3.3	SRL Line Orientation: 5 ft offset			
	Test item	Cold		
		Sample #19	Sample #20	Sample #21
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	1194.89	1329.6	1091.2
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	803.82	759.3	763.5
	Arrest distance:	100.0	94.5	99.4
	Constituent line static test:	No breaking	No breaking	No breaking
	SRL Line Orientation: 5 ft offset			
	Test item	Wet		
		Sample #22	Sample #23	Sample #24
	Visual indicator:	Yes	Yes	Yes
	Maximum arrest force: ≤ 1800 lbf	1016.54	1119.1	1069.6
	Average arrest force: Ambient ≤ 1350 lbf Hot/Cold/Wet ≤ 1575 lbf	750.40	753.1	748.9
	Arrest distance:	110.2	98.7	102.0
	Constituent line static test:	No breaking	No breaking	No breaking
	Note:			
	1.24 pcs of samples were tested.			
	2.Sample #1, #4, #7, #10, #13, #16, #19 and #22 were tested at “No. 88-8, Sec. 2, Zhongtong W. Rd., Wufeng Dist., Taichung City, Taiwan” with equipment calibrated according to table 1.			
	3.Sample #2, #3, #5, #6, #8, #9, #11, #12, #14, #15, #17, #18, #20, #21, #23 and #24 were tested at “No. 61, Ln. 1265, Zhongzheng Rd., Jifeng Vil., Wufeng Dist., Taichung City, Taiwan” with equipment calibrated according to table 2.			
		Pass		

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Clauses	Test Item/Results	Compliance																								
3.4	<p><u>Energy Capacity</u> SRDs featuring a rotary brake shall be tested in accordance with 4.4. The maximum arrest force shall not exceed 1,800 lbs (8kN).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Test item</th> <th colspan="3">Observation</th> </tr> <tr> <th style="width: 15%;">Sample #1</th> <th style="width: 15%;">Sample #2</th> <th style="width: 15%;">Sample #3</th> </tr> </thead> <tbody> <tr> <td>Maximum arrest force: ≤ 1800 lbf</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> </tbody> </table> <p>Note: As the applicant's request, refer to FS8062 report "TH40088A/2022" test result.</p>	Test item	Observation			Sample #1	Sample #2	Sample #3	Maximum arrest force: ≤ 1800 lbf	--	--	--	Pass													
	Test item		Observation																							
		Sample #1	Sample #2	Sample #3																						
	Maximum arrest force: ≤ 1800 lbf	--	--	--																						
3.5.1	<p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Test item</th> <th colspan="3">Observation</th> </tr> <tr> <th style="width: 15%;">Sample #1</th> <th style="width: 15%;">Sample #2</th> <th style="width: 15%;">Sample #3</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Retraction tension: 1.25~25 lbf</td> <td>1 foot:</td> <td style="text-align: center;">1.71 lbf</td> <td style="text-align: center;">1.57 lbf</td> <td style="text-align: center;">1.53 lbf</td> </tr> <tr> <td>50%:</td> <td style="text-align: center;">2.30 lbf</td> <td style="text-align: center;">2.28 lbf</td> <td style="text-align: center;">2.12 lbf</td> </tr> <tr> <td>100%:</td> <td style="text-align: center;">3.78 lbf</td> <td style="text-align: center;">3.22 lbf</td> <td style="text-align: center;">2.42 lbf</td> </tr> <tr> <td>Retract without stopping in horizontal (Class 2):</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> </tbody> </table> <p>Note: 1.3 pcs of samples were tested. 2.Sample #1 was tested at "No. 88-8, Sec. 2, Zhongtuo W. Rd., Wufeng Dist., Taichung City, Taiwan" with equipment calibrated according to table 1. 3.Sample #2 and #3 were tested at "No. 61, Ln. 1265, Zhongzheng Rd., Jifeng Vil., Wufeng Dist., Taichung City, Taiwan" with equipment calibrated according to table 2.</p>	Test item	Observation			Sample #1	Sample #2	Sample #3	Retraction tension: 1.25~25 lbf	1 foot:	1.71 lbf	1.57 lbf	1.53 lbf	50%:	2.30 lbf	2.28 lbf	2.12 lbf	100%:	3.78 lbf	3.22 lbf	2.42 lbf	Retract without stopping in horizontal (Class 2):	Yes	Yes	Yes	Pass
	Test item		Observation																							
		Sample #1	Sample #2	Sample #3																						
	Retraction tension: 1.25~25 lbf	1 foot:	1.71 lbf	1.57 lbf	1.53 lbf																					
		50%:	2.30 lbf	2.28 lbf	2.12 lbf																					
100%:		3.78 lbf	3.22 lbf	2.42 lbf																						
Retract without stopping in horizontal (Class 2):	Yes	Yes	Yes																							

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Test equipment:

Table 1

Description	Manufacturer	Model No.	Serial No.	Cal. Date
Laser distance meter	BOSCH	GLM40	122213512	2021/11/22
Environmental testing equipment	TERCHY	HEMB-120L	1080911	2021/8/17
Environmental testing equipment	TERCHY	HEMB-120L	1060910	2021/8/17
Universal Machine	NTS	LCX-100kN	18038	2022/3/18
Force guage	AIKOH	RX-10	D02639	2022/5/4
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: Site of witness was at No. 88-8, Sec. 2, Zhongtuo W. Rd., Wufeng Dist., Taichung City, Taiwan.

Table 2

Description	Manufacturer	Model No.	Serial No.	Cal. Date
Laser distance meter	BOSCH	GLM40	122213512	2021/11/22
Environmental testing equipment	TERCHY	HEMB-120L	1080911	2022/9/6
Environmental testing equipment	TERCHY	HEMB-120L	1060910	2022/9/6
Universal Machine	NTS	LCX-100kN	18038	2022/8/30
Force guage	AIKOH	RX-10	D02639	2022/5/4
Load cell	JIHSENSE	LM-3T	90508	2022/7/14
Salt spray tester	-	DR-90	B-03-01	2022/8/30
PH meter	Lutron	PH-211	AJ.92507(B-03-02)	2020/9/25

Note: Site of witness was at No. 61, Ln. 1265, Zhongzheng Rd., Jifeng Vil., Wufeng Dist., Taichung City, Taiwan.

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

--- End of Report ---

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