

# Intertek

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# REVSAFETY, LLC

# TEST REPORT

## SCOPE OF WORK

ANSI/ASSE Z359.4-2013 American National Standard, Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components

## REPORT NUMBER

104777002CRT-001a

ISSUE DATE 9/20/21

PAGES

8

DOCUMENT CONTROL NUMBER

GFT-OP-10a (6-March-2017)

0 2017 INTERTEK

# Intertek

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## TEST REPORT FOR REVSAFETY LLC

Report No.: 104777002CRT-001a

Date: September 20, 2021

Dave Chandler  
RevSafety, LLC  
9805 Statesville Road  
Suite 6088  
Charlotte, NC 28269  
USA  
dave@revsafety.com



### Name of Testing Laboratory

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

Report Number..... :104777002CRT-001a

Signed Quote Number. . . . . Qu-01182759-O

PO Number..... N/A

980-214-3776

Preparing the Report..... :Intertek Testing Services NA Inc.

### Test Specification:

Standard.. . . . . : ANSI/ASSE Z359.4-2013

Date(s) of Testing..... :9/20/21

Product Description:..... :

Product Type; ..... :Auto Descent Device

Brand Name: ..... :RevSafety LLC

Model Number(s):..... : SELF RESCUE-21

Date: September 21<sup>st</sup>, 2021

Date(s) Samples Received .....:8/6/2021

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**SECTION 1**



**SUMMARY OF TESTING**

TESTS COMPLETED	ANSI/ASSE Z359.4-2013 CLAUSE	STATUS
Design (Line Material)	3.2.7 & 3.2.7.6	PASS
Descent Energy	3.2.7.1 & 3.2.7.2	PASS
Static Strength Test	3.2.7.3 (4.3.5.2)	PASS
Dynamic Strength Test	3.2.7.4 (4.3.5.3)	PASS
Functional Test	3.2.7.5 (4.3.5.4)	PASS
Markings & Instructions	5	PASS
Descent Control Device Additional Markings	5.2.7	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.

Please see attached test data for details.

<b>COMPLETED BY:</b>	Steven Morey	<b>REVIEWED BY:</b>	Matthew Stevens
<b>TITLE:</b>	Technician	<b>TITLE:</b>	Team Leader
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	9/20/21	<b>DATE:</b>	9/21/21

Date: September<sup>st</sup>, 2021

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SECTION 3 TESTING EQUIPMENT CALIBRATION INFORMATION

USED OR TEST	DESCRIPTION	MANUFACTURER	CONTROL NO.	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE
X	Drop Test Structure	Intertek		CAT. 3		N/A	N/A
X	Test Dead Weight		15064	282 lbs/ 310 lbs		VBU	VBU
X	Load Cell	Interface	G139			7/6/21	7/6/22
X	Load Cell	Interface	L099			5/04/21	5/04/22
X	Tape Measure	Stanley	H339	25'		5/10/21	5/10/22

SECTION 4

SAMPLE LOG				
Model No.	Intertek Control No.	Received Date:	Quantity (ea)	Condition (as rec'd)
SELF RESCUE-21	CRT2108061410-001	8/6/21	12	Pristine, new, unused

SECTION 5

Section (Test)	Requirement	Results				Compliance
3.2.7.3 (4.3.5.2)	<u>Static Strength Test:</u> (ambient) shall withstand 2,700 lbs. applied directly to descent device and descent line as normally installed and terminated. Hold for a period of one minute.		Sample:	Sample:	Sample:	PASS
		SN or ID	1	2	3	
		Withstand the tensile load and no release	YES	YES	YES	
*Broke at 3344lbs. , 3498lbs. , 2745lbs.(broke at 1.10 min.)						

Date: September 21<sup>st</sup>, 2021

Section (Test)	Requirement	Results	Compliance																											
3.2.7.4 (4.3.5.3)	<p><u>Dynamic Strength Test:</u> (ambient) The descent device or line shall be connected to the test structure anchorage in accordance with the manufacturer's instructions. For this test, there shall be no manual control of manually operated descent devices. The 220 pound test weight shall be connected directly to the descent device or the descent line. The descent device shall be located within 2 feet (0.6m) from the anchorage. The test weight shall then be raised to allow a free fall of 2 feet (.6m) before the descent device engages. Release the test weight using the quick release mechanism. Samples Shall Stop and Not release the test weight. Shall remain functional.</p>	<table border="1"> <tr> <td></td> <td>Sample:</td> <td>Sample:</td> <td>Sample:</td> </tr> <tr> <td>SN or ID</td> <td></td> <td>2</td> <td>3</td> </tr> <tr> <td>Functional</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Breakage</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> </table>		Sample:	Sample:	Sample:	SN or ID		2	3	Functional	YES	YES	YES	Breakage	NO	NO	NO	PASS											
	Sample:	Sample:	Sample:																											
SN or ID		2	3																											
Functional	YES	YES	YES																											
Breakage	NO	NO	NO																											
3.2.7.1/ 3.2.7. (4.3.5.1)	<p><u>Descent Energy:</u> For manually operated descent control devices when tested in accordance with 4.3.5.1, the descent speed shall not exceed 6.6 feet/second (2m/s). The descent distance used to apply the descent energy shall be equal to the maximum allowable descent distance of the device. The test weight shall be 310 pounds (141 kg). Measure the descent velocity by timing the descent over a 10-20 feet (3-6m) distance and calculating the descent speed or by direct velocity. For manual descent devices the descent velocity evaluation shall be operated at a nearly contact rate of speed, but not greater than 6.6 feet/second (2m/s). Evaluate in accordance with section 3.2.7.2 following the energy test and evaluate the descent device and line in accordance with requirements of</p>	<table border="1"> <tr> <th colspan="3">Sample #1</th> </tr> <tr> <td>Descent #</td> <td>Decent Speed ft/s</td> <td>Function YES/NO</td> </tr> <tr> <td>1</td> <td>3.9</td> <td>YES</td> </tr> <tr> <th colspan="3">Sample#2</th> </tr> <tr> <td>Descent #</td> <td>Decent Speed ft/s</td> <td>Function YES/NO</td> </tr> <tr> <td>1</td> <td>1.9</td> <td>YES</td> </tr> <tr> <th colspan="3">Sample #3</th> </tr> <tr> <td>Descent #</td> <td>Decent Speed ft/s</td> <td>Function YES/NO</td> </tr> <tr> <td>1</td> <td>5.1</td> <td>YES</td> </tr> </table>	Sample #1			Descent #	Decent Speed ft/s	Function YES/NO	1	3.9	YES	Sample#2			Descent #	Decent Speed ft/s	Function YES/NO	1	1.9	YES	Sample #3			Descent #	Decent Speed ft/s	Function YES/NO	1	5.1	YES	PASS
Sample #1																														
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1	5.1	YES																												

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	3.2.7.1.		
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Section est)	Requirement	Results	Compliance												
3.2.7.6	<p><b>Design (Line Material):</b>                      Rope used as a line constituent of a descent device shall be made of virgin synthetic materials having strength, aging, abrasion resistance and heat resistance characteristics equivalent or superior to polyamides. When statically tested in accordance with reference 8.9.2, synthetic rope shall have a minimum breaking strength of 3,000 pounds.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f4a460;"></td> <td style="text-align: center;">Sample:</td> <td style="text-align: center;">Sample:</td> <td style="text-align: center;">Sample:</td> </tr> <tr> <td style="text-align: center;">SN or ID</td> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">Withstand the tensile load</td> <td style="text-align: center;"><b>YES</b></td> <td style="text-align: center;"><b>YES</b></td> <td style="text-align: center;"><b>YES</b></td> </tr> </table> <p>* Sample 1 Max Break Static Strength 3638                      * Sample 2 Max Break Static Strength 3968                      * Sample 3 Max Break Static Strength 4021</p>		Sample:	Sample:	Sample:	SN or ID		2	3	Withstand the tensile load	<b>YES</b>	<b>YES</b>	<b>YES</b>	PASS
	Sample:	Sample:	Sample:												
SN or ID		2	3												
Withstand the tensile load	<b>YES</b>	<b>YES</b>	<b>YES</b>												
Section (Test)	Requirement	Results	Compliance												

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<p>3.2.7.5 (4.3.5.4)</p>	<p>Function Test: Device shall function as intended and descent speed shall meet the requirements of 3.2.7.2. In the case of manually operated devices, the device shall stop and hold the load if the device is released (hands free) or if excessive application of the control device is applied (panic grasp). When tested in accordance with 4.3.5.4 in the two stop models (hands free, panic grasp) the amount of line movement through the descent device or movement of the decent device on the line shall not exceed 6 inches (152mm) This test series shall be repeated following wet conditioning defined in 4.3.5.4.</p>	<table border="1" data-bbox="737 367 1369 604"> <tr> <td>Han s Free Function</td> <td>Hands Free Function</td> <td>Hands Free Function</td> <td>Hands Free Function</td> </tr> <tr> <td>Function?</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>SN or ID</td> <td>1</td> <td>2</td> <td>3</td> </tr> </table> <p>Notes: Handsfree Function N/A — Product is designed to automatically Descend.</p> <p>Notes: No Panic Crab feature on this model</p>	Han s Free Function	Hands Free Function	Hands Free Function	Hands Free Function	Function?	YES	YES	YES	SN or ID	1	2	3	<p>PASS</p>
Han s Free Function	Hands Free Function	Hands Free Function	Hands Free Function												
Function?	YES	YES	YES												
SN or ID	1	2	3												

Section (Test)	Requirement	Results	Compliance
5	"Marking and Instructions"		
5.1	Marking Requirements		
5.1.1	Shall be in English		
5.1.2	The legibility and attachment of required markings shall endure for the life of the component, subsystem or system being marked. When pressure sensitive labels are used, they shall comply with the applicable provision of reference 8.1.1.	<p>Markings/Instructions Provided</p> <p>Markings/Instruction reviewed and approved by Wayne Bogardus</p>	<p>PASS</p>



Date: September 21<sup>st</sup>, 2021

5.1.3	Device shall be marked with the following:				PASS	
	Marking	Comments	YES	NO		NA
	Part number and model designation		X			
	Year of manufacture		X			
	Manufacturer's name or logo		X			
	Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer;		X			
	The need for inspection in accordance with the manufacturer's instructions.		X			
	Capacity Range		X			
Section est	Requirement	Results			Compliance	
5.2	Specific Marking Requirements					

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5.2.7	Instructions	Comments	YES	NO	NA	PASS
	direction of use if not bi-directional		X			
	warning to avoid descending into electrical, thermal, chemical sources or other hazards		X			
	method of applying braking action, if applicable;		X			
	the compatible size and type of rope;		X			
	warnings against use of incompatible rope;		X			
	single or multiple use, with multiple use specified		X			
	reference to separate instructions and caution statements		X			
	the need for inspection at periodic intervals and at least annually		X			
	maximum length of descent		X			
	maximum number of descents (if applicable)		X			
	proper routing of line through the device if not integrally installed by the manufacturer		X			
In addition to the requirements in 5.1, descent control devices shall be marked to identify::						

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE;	PROJECT OWNER	REVIEWED BY
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Date: September 21<sup>st</sup>, 2021

104815677CRT-001a	9/21/21	Original Report	Steven Morey	Matthew Stevens
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SECTION 6

REVISION HISTORY