



INTERTEK TEST REPORT

Frontline Fall Protection Inc.
1725 NW 97 Ave
Miami, FL 33172
USA
www.Fronlinefall.com

10/29/18

Intertek Test Report Number: 103714328CRT-001
Intertek Signed Quote Number (s): Qu-00903796
Client Purchase Order Number: None
Product Type: Self-Retracting Lanyard (Leading Edge Capability)
Product Models: RPG25LE
Additional Models Covered: RPG50LE
Type of Testing Entity: Third Party Testing Laboratory
Test Standard: ANSI/ASSE Z359.14-2014
Evaluation/Testing Location: Intertek, 3933 US Rt. 11, Cortland NY 13045 **
Date(s) of Testing: 7/3/17 - 1/3/18

Intertek has completed the evaluation of the self-retracting lanyard with leading edge capability, model RPG25LE & RPG50LE', to the client specified requirements of American National Standard, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems, ANSI/ASSE Z359.14-2014 The test samples were received in pristine condition. The evaluation was performed at Intertek located in Cortland, NY on the dates posted below. The results of these tests are as indicated below.

Table with 4 columns: Tests Completed, Test Data Source Report, ANSI/ASSE Z359.14-2014, Clause, Pass/Fail. Rows include General Requirements, Static Strength test, Dynamic Strength (LE) (ambient), etc.

Please see attached test data for details.

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.

Tested by,

[Signature of Matthew Stevens]

Matthew Stevens
Technician
Performance Group

Reviewed by,

[Signature of Andrew Rulison]

Andrew Rulison
Team Leader
Performance Group



** Intertek Laboratory is ISO/IEC 17025:2005 (CAN-P-4E) accredited by Standards Council of Canada (SCC) with the scope available for review at the following location: http://www.scc.ca/en/palcan/38

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report.

INTERTEK TEST DATA SHEETS

Client/Ref #: Frontline Fall Protection Inc. Engineer: Andrew Rulison
 Job No.: G103714328 Tested By: Matthew Stevens Date: 1/4/17
 Product: Self-Retracting Lanyard Leading Edge Reviewed By: Andrew Rulison Date: 1/4/17
 Model No.: RPG25LE & RPG50LE Standard: ANSI/ASSE Z359.14-2014
 Sample Control #: CRT1706291047 **TRANSCRIBED TEST DATA**

TEST EQUIPMENT							
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	Test Dead Weight	NA	15065	300 lbs	-	VBU	VBU
X	Load Cell	Interface	558451	-	-	9/15/16	9/15/17
X	Leading Edge Bar	Intertek	G110	NA	-	9/20/16	9/20/17
*X	Leading Edge Bar	Karam	H324	NA	-	9/14/17	9/14/18
*X	Leading Edge Bar	Karam	308-Karam	NA	-	12/28/17	12/28/18
X	Tape Measure	Stanley	N949	25'	-	8/8/16	8/8/17
X	TC (Chamber)	Fluke	T965	-	-	11/5/16	11/5/17

*Leading Edge Bar Asset # H324 was supplied by Client and Calibrated prior to testing.
 *Leading Edge Bar Asset # 308-Karam was supplied by Client and Calibrated prior to testing. (Used on 1/3/18 Retesting)

Section (Test)	Requirement	Results			Compliance
3.1.7 (4.2.5)	Static Strength: (ambient) shall withstand 3,000 lbs. when tested to: - apply a 3,000 lbs (+60/-0 lbs) load and maintain for 1-minute to the point of SRL line connection to the SRL drum (across the device)		Sample: 31	Sample: 32	Sample: 33
		Withstand the tensile load	YES	YES	YES
					PASS

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3.1.8/ 3.1.6 (4.2.4)	<p>Retesting 9/19/17</p> <p>Dynamic Strength: (ambient) – shall lock and remained locked until released. The test weight shall not touch the ground.</p> <ol style="list-style-type: none"> Connect 300 lb. weight. Drop test weight from a level 5 feet +/- 1 inch Allow test weight to swing unrestrained for a period of not less than 2 minutes Record maximum and average forces and arrest distance 	<table border="1"> <thead> <tr> <th>SRL Line Orientation: Perpendicular</th> <th>Sample: 1</th> <th>Sample: 2</th> <th>Sample: 3</th> </tr> </thead> <tbody> <tr><td>SRL Locked:</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>SRL Remained Locked until released</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>Test weight touch the ground</td><td>NO</td><td>NO</td><td>NO</td></tr> <tr><td>Did SRL payload out to full extension</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>Did load indicator engage</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>AAF: (lbs) Ref only:</td><td>797</td><td>791</td><td>792</td></tr> <tr><td>MAF: (lbs) Ref only:</td><td>1295</td><td>1336</td><td>1310</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>SRL Line Orientation: 5' Offset</th> <th>Sample: 4</th> <th>Sample: 5</th> <th>Sample: 6</th> </tr> </thead> <tbody> <tr><td>SRL Locked:</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>SRL Remained Locked until released</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>Test weight touch the ground</td><td>NO</td><td>NO</td><td>NO</td></tr> <tr><td>Did SRL payload out to full extension</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>Did load indicator engage</td><td>YES</td><td>YES</td><td>YES</td></tr> <tr><td>AAF: (lbs) Ref only:</td><td>807</td><td>844</td><td>803</td></tr> <tr><td>MAF: (lbs) Ref only:</td><td>1303</td><td>1313</td><td>1284</td></tr> </tbody> </table>	SRL Line Orientation: Perpendicular	Sample: 1	Sample: 2	Sample: 3	SRL Locked:	YES	YES	YES	SRL Remained Locked until released	YES	YES	YES	Test weight touch the ground	NO	NO	NO	Did SRL payload out to full extension	YES	YES	YES	Did load indicator engage	YES	YES	YES	AAF: (lbs) Ref only:	797	791	792	MAF: (lbs) Ref only:	1295	1336	1310	SRL Line Orientation: 5' Offset	Sample: 4	Sample: 5	Sample: 6	SRL Locked:	YES	YES	YES	SRL Remained Locked until released	YES	YES	YES	Test weight touch the ground	NO	NO	NO	Did SRL payload out to full extension	YES	YES	YES	Did load indicator engage	YES	YES	YES	AAF: (lbs) Ref only:	807	844	803	MAF: (lbs) Ref only:	1303	1313	1284	<p>PASS</p>
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3.1.9 (4.2.2)	<p><u>Dynamic Performance: "AMBIENT"</u></p> <ol style="list-style-type: none"> 1. Connect 282 lb. weight 2. Drop test weight from a level 5 feet +/- 1 inch 3. Allow weight to swing unrestrained for a period of not less than 10 seconds 4. Record the maximum and average arresting forces 5. Line must retain 675 lb. static load after drops <table border="1" data-bbox="305 783 1328 1150"> <thead> <tr> <th>SRL Line Orientation: Perpendicular</th> <th>Sample: 7</th> <th>Sample: 8</th> <th>Sample: 9</th> </tr> </thead> <tbody> <tr> <td>Conditioning in: (4 hrs min)</td> <td>24 Hr.</td> <td>24 Hr.</td> <td>24 Hr.</td> </tr> <tr> <td>Lock function shall operate per 3.1.2</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Visual indicator shall activate</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.</td> <td>1409</td> <td>1365</td> <td>1314</td> </tr> <tr> <td>Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.</td> <td>784</td> <td>793</td> <td>793</td> </tr> <tr> <td>Arrest Distance (in):</td> <td>80</td> <td>89</td> <td>89</td> </tr> <tr> <td>Retain a minimum of 675 lbs of residual tensile strength following the test</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table> <table border="1" data-bbox="305 1205 1328 1572"> <thead> <tr> <th>SRL Line Orientation: 5' Offset</th> <th>Sample: 10</th> <th>Sample: 11</th> <th>Sample: 12</th> </tr> </thead> <tbody> <tr> <td>Conditioning in: (4 hrs min)</td> <td>24 Hr.</td> <td>24 Hr.</td> <td>24 Hr.</td> </tr> <tr> <td>Lock function shall operate per 3.1.2</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Visual indicator shall activate</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.</td> <td>1305</td> <td>1207</td> <td>1313</td> </tr> <tr> <td>Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.</td> <td>840</td> <td>797</td> <td>795</td> </tr> <tr> <td>Arrest Distance (in):</td> <td>69</td> <td>89</td> <td>91</td> </tr> <tr> <td>Retain a minimum of 675 lbs of residual tensile strength following the test</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table>	SRL Line Orientation: Perpendicular	Sample: 7	Sample: 8	Sample: 9	Conditioning in: (4 hrs min)	24 Hr.	24 Hr.	24 Hr.	Lock function shall operate per 3.1.2	YES	YES	YES	Visual indicator shall activate	YES	YES	YES	Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	1409	1365	1314	Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.	784	793	793	Arrest Distance (in):	80	89	89	Retain a minimum of 675 lbs of residual tensile strength following the test	YES	YES	YES	SRL Line Orientation: 5' Offset	Sample: 10	Sample: 11	Sample: 12	Conditioning in: (4 hrs min)	24 Hr.	24 Hr.	24 Hr.	Lock function shall operate per 3.1.2	YES	YES	YES	Visual indicator shall activate	YES	YES	YES	Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	1305	1207	1313	Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.	840	797	795	Arrest Distance (in):	69	89	91	Retain a minimum of 675 lbs of residual tensile strength following the test	YES	YES	YES		PASS
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3.1.9 (4.2.8.2)	<p>Dynamic Performance: "COLD (-40 C)"</p> <ol style="list-style-type: none"> Connect 282 lb. weight Drop test weight from a level 5 feet +/- 1 inch Allow weight to swing unrestrained for a period of not less than 10 seconds Record the maximum and average arresting forces Line must retain 675 lb. static load after drops 	<table border="1"> <thead> <tr> <th data-bbox="305 716 930 762">SRL Line Orientation: Perpendicular</th> <th data-bbox="938 716 1060 762">Sample: 19</th> <th data-bbox="1068 716 1190 762">Sample: 20</th> <th data-bbox="1198 716 1328 762">Sample: 21</th> </tr> </thead> <tbody> <tr> <td>Conditioning in: (2 hrs min)</td> <td>7:00AM</td> <td>7:00AM</td> <td>7:00AM</td> </tr> <tr> <td>Conditioning out: (2 hrs min)</td> <td>9:30pm</td> <td>9:40pm</td> <td>9:50pm</td> </tr> <tr> <td>Lock function shall operate per 3.1.2</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Visual indicator shall activate</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.</td> <td>1282</td> <td>1308</td> <td>1358</td> </tr> <tr> <td>Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.</td> <td>915</td> <td>921</td> <td>926</td> </tr> <tr> <td>Arrest Distance (in):</td> <td>84</td> <td>87</td> <td>90</td> </tr> <tr> <td>Retain a minimum of 675 lbs of residual tensile strength following the test</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th data-bbox="305 1167 930 1213">SRL Line Orientation: 5' Offset</th> <th data-bbox="938 1167 1060 1213">Sample: 22</th> <th data-bbox="1068 1167 1190 1213">Sample: 23</th> <th data-bbox="1198 1167 1328 1213">Sample: 24</th> </tr> </thead> <tbody> <tr> <td>Conditioning in: (2 hrs min)</td> <td>7:00AM</td> <td>7:00AM</td> <td>7:00AM</td> </tr> <tr> <td>Conditioning out: (2 hrs min)</td> <td>10:00pm</td> <td>10:10pm</td> <td>10:20pm</td> </tr> <tr> <td>Lock function shall operate per 3.1.2</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Visual indicator shall activate</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.</td> <td>1343</td> <td>1394</td> <td>1330</td> </tr> <tr> <td>Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.</td> <td>935</td> <td>958</td> <td>955</td> </tr> <tr> <td>Arrest Distance (in):</td> <td>83</td> <td>78</td> <td>84</td> </tr> <tr> <td>Retain a minimum of 675 lbs of residual tensile strength following the test</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table>	SRL Line Orientation: Perpendicular	Sample: 19	Sample: 20	Sample: 21	Conditioning in: (2 hrs min)	7:00AM	7:00AM	7:00AM	Conditioning out: (2 hrs min)	9:30pm	9:40pm	9:50pm	Lock function shall operate per 3.1.2	YES	YES	YES	Visual indicator shall activate	YES	YES	YES	Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	1282	1308	1358	Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.	915	921	926	Arrest Distance (in):	84	87	90	Retain a minimum of 675 lbs of residual tensile strength following the test	YES	YES	YES	SRL Line Orientation: 5' Offset	Sample: 22	Sample: 23	Sample: 24	Conditioning in: (2 hrs min)	7:00AM	7:00AM	7:00AM	Conditioning out: (2 hrs min)	10:00pm	10:10pm	10:20pm	Lock function shall operate per 3.1.2	YES	YES	YES	Visual indicator shall activate	YES	YES	YES	Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	1343	1394	1330	Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.	935	958	955	Arrest Distance (in):	83	78	84	Retain a minimum of 675 lbs of residual tensile strength following the test	YES	YES	YES	<p>PASS</p>
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Client/Ref #: Frontline Fall Protection Inc. Engineer: Andrew Rulison
 Job No.: G103714328 Tested By: Matthew Stevens Date: 1/4/17
 Product: Self-Retracting Lanyard Leading Edge Reviewed By: Andrew Rulison Date: 1/4/17
 Model No.: RPG25LE & RPG50LE Standard: ANSI/ASSE Z359.14-2014
 Sample Control #: CRT1706291047 **TRANSCRIBED TEST DATA**

Section (Test)	Requirement	Results	Compliance																																																																								
3.1.9 (4.2.8.3)	<p>Dynamic Performance: "WET"</p> <ol style="list-style-type: none"> 1. Connect 282 lb. weight 2. Drop test weight from a level 5 feet +/- 1 inch 3. Allow weight to swing unrestrained for a period of not less than 10 seconds 4. Record the maximum and average arresting forces 5. Line must retain 675 lb. static load after drops 	<table border="1"> <thead> <tr> <th data-bbox="824 506 930 558">SRL Line Orientation: Perpendicular</th> <th data-bbox="938 506 1060 558">Sample: 25</th> <th data-bbox="1068 506 1190 558">Sample: 26</th> <th data-bbox="1198 506 1320 558">Sample: 27</th> </tr> </thead> <tbody> <tr> <td data-bbox="824 562 930 594">Conditioning in: (3 hrs min)</td> <td data-bbox="938 562 1060 594">9:30am</td> <td data-bbox="1068 562 1190 594">9:30am</td> <td data-bbox="1198 562 1320 594">9:30am</td> </tr> <tr> <td data-bbox="824 598 930 630">Conditioning out: (3 hrs min)</td> <td data-bbox="938 598 1060 630">12:45pm</td> <td data-bbox="1068 598 1190 630">12:55pm</td> <td data-bbox="1198 598 1320 630">1:10pm</td> </tr> <tr> <td data-bbox="824 634 930 665">Lock function shall operate per 3.1.2</td> <td data-bbox="938 634 1060 665">YES</td> <td data-bbox="1068 634 1190 665">YES</td> <td data-bbox="1198 634 1320 665">YES</td> </tr> <tr> <td data-bbox="824 669 930 701">Visual indicator shall activate</td> <td data-bbox="938 669 1060 701">YES</td> <td data-bbox="1068 669 1190 701">YES</td> <td data-bbox="1198 669 1320 701">YES</td> </tr> <tr> <td data-bbox="824 705 930 758">Max. 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7.4	<p><u>Corrosion Resistance</u></p> <p>Subject the samples to 96 hours of salt spray per ASTM B117, following the salt spray perform retraction tension, test 3.1.6</p> <table border="1"> <thead> <tr> <th></th> <th>Sample: 3.1.5 Salt (-1)</th> <th>Sample: 3.1.5 Salt (-2)</th> <th>Sample: 3.1.5 Salt (-3)</th> </tr> </thead> <tbody> <tr> <td>SN or ID</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Operate as intended:</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> <tr> <td>Signs of corrosion (visual only):</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>Line pay out, retract, and lock:</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>Line Extension (in or ft)</th> <th>Sample: (#4)</th> <th>Sample: (#5)</th> <th>Sample: (#6)</th> </tr> </thead> <tbody> <tr> <td>(1) Force (lbs) @ 1 ft</td> <td>1'</td> <td>3.9</td> <td>4.1</td> <td>4.1</td> </tr> <tr> <td>Retracted length < 24-inches</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>(2) Force (lbs) @ 20%</td> <td>2'</td> <td>5.2</td> <td>4.8</td> <td>4.9</td> </tr> <tr> <td>Retracted length < 24-inches</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>(3) Force (lbs) @ 40%</td> <td>4'</td> <td>5.7</td> <td>6.2</td> <td>5.6</td> </tr> <tr> <td>Retracted length < 24-inches</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>(4) Force (lbs) @ 60%</td> <td>6'</td> <td>6.8</td> <td>7.9</td> <td>6.4</td> </tr> <tr> <td>Retracted length < 24-inches</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>(5) Force (lbs) @ 80%</td> <td>8'</td> <td>8.0</td> <td>8.4</td> <td>7.2</td> </tr> <tr> <td>Retracted length < 24-inches</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>(6) Force (lbs) @ 100%</td> <td>10'</td> <td>9.2</td> <td>8.6</td> <td>8.7</td> </tr> <tr> <td>Retracted length < 24-inches</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>		Sample: 3.1.5 Salt (-1)	Sample: 3.1.5 Salt (-2)	Sample: 3.1.5 Salt (-3)	SN or ID	1	2	3	Operate as intended:	YES	YES	YES	Signs of corrosion (visual only):	NO	NO	NO	Line pay out, retract, and lock:	YES	YES	YES		Line Extension (in or ft)	Sample: (#4)	Sample: (#5)	Sample: (#6)	(1) Force (lbs) @ 1 ft	1'	3.9	4.1	4.1	Retracted length < 24-inches		N/A	N/A	N/A	(2) Force (lbs) @ 20%	2'	5.2	4.8	4.9	Retracted length < 24-inches		N/A	N/A	N/A	(3) Force (lbs) @ 40%	4'	5.7	6.2	5.6	Retracted length < 24-inches		N/A	N/A	N/A	(4) Force (lbs) @ 60%	6'	6.8	7.9	6.4	Retracted length < 24-inches		N/A	N/A	N/A	(5) Force (lbs) @ 80%	8'	8.0	8.4	7.2	Retracted length < 24-inches		N/A	N/A	N/A	(6) Force (lbs) @ 100%	10'	9.2	8.6	8.7	Retracted length < 24-inches		N/A	N/A	N/A		PASS
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INTERTEK TEST DATA SHEETS

Client/Ref #: Frontline Fall Protection Inc. Engineer: Andrew Rulison
 Job No.: G103714328 Tested By: Matthew Stevens Date: 1/4/17
 Product: Self-Retracting Lanyard Leading Edge Reviewed By: Andrew Rulison Date: 1/4/17
 Model No.: RPG25LE & RPG50LE Standard: ANSI/ASSE Z359.14-2014
 Sample Control #: CRT1706291047 **TRANSCRIBED TEST DATA**

Section (Test)	Requirement	Results				Results																																																																																																
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 Sample Control #: CRT1706291047 **TRANSCRIBED TEST DATA**

Section (Test)	Requirement	Results				Results
5.2.6	Instructions shall provide warnings regarding:					PASS
	Warnings	Comments	YES	NO	NA	
	Altering the equipment		X			
	Misusing the equipment		X			
	Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other		X			
	Exposing the equipment to chemicals, high heat, severe cold, or other harsh environments which may produce a harmful effect and to consult the manufacturer in case of doubt		X			
	Using the equipment around moving machinery and electrical hazards		X			
	Using the equipment near sharp edges or abrasive surfaces		X			
	Risk of striking an object or obstruction during a swing fall		X			
	That the consequences of improperly using the device, not following instructions or markings may cause serious injury or death		X			