

Firm: VICSA Steelpro  
KM 7 Autopista Medellin Lote 49  
Bodega 1-2 Parque Empresarial  
Celta Funza  
Cundinamarca  
Colombia

For the attention of: Gina Bogota

## Technical Report

Subject: TESTING OF SRL DESCRIBED AS “BLOQUE AUTORETRACTIL DE 2M 6FT (CODE 500877)” IN ACCORDANCE WITH ANSI Z359.14 - 2014

Our ref: SPC0222213/1407/1 Issue 5 Ext 1

Date: 6<sup>th</sup> April 2018

This is an extension of report reference SPC0222213/1407/1 Issue 5

### Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

**A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the customer as a result of information supplied in the report.**

Report signed by: D Harrison  
Position: PPE Technologist  
Department: Safety Product Centre



## WORK REQUESTED

Samples of self-retracting device, described as “BLOQUE AUTORETRACTIL DE 2M 6FT (CODE 500877)”, were received by SATRA on 24<sup>th</sup> February & 11<sup>th</sup> August 2014, for testing in accordance with ANSI/ ASSE Z359.14 – 2014 Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems.

Additional samples were received on the 31<sup>st</sup> March 2017 for testing in accordance with ANSI Z359.14 – 2014 clause 3.1.5 only to verify addition of nickel plating process added to brake pawls would not affect corrosion resistance – see table 2 for results

Testing was initially carried out in accordance with ANSI Z359.14 – 2012 and the clauses shown below in the conclusions section have not changed in ANSI Z359.14 – 2014 to require further testing

## CONCLUSIONS

SAMPLE REFERENCE	STANDARD	CLAUSE / PROPERTY	SUB CLAUSE / PROPERTY	PASS / FAIL
BLOQUE AUTORETRACTIL DE 2M 6FT (CODE 500877)	ANSI Z359.14 – 2014	3.1 General Requirements	3.1.1 Integral Connectors	PASS
			3.1.2 Locking Function	PASS
			3.1.3 Energy Absorption	PASS
			3.1.4 Visual Indicator	PASS
			3.1.5 Corrosion Protection	PASS
			3.1.6 Retraction Tension	PASS
			3.1.7 Static Strength (SRL)	PASS
			3.1.8 Dynamic Strength	PASS
			3.1.9 Dynamic Performance	PASS

## TESTING

Testing was carried out in accordance with ANSI Z359.14 – 2014 between 3<sup>rd</sup> April & 6<sup>th</sup> November 2014

The retractable lanyard is a class A device and therefore has a maximum fall arrest distance of 610mm

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in individual test clauses



Figure 1 – Self-retracting device described as “BLOQUE AUTORETRACTIL DE 2M 6FT (CODE 500877)”

## TEST RESULTS

Table 1 – Testing of Self-retracting device described as “BLOQUE AUTORETRACTIL DE 2M 6FT (CODE 500877)” in accordance with ANSI Z359.14 – 2014

ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL
3.1.1 Integral Connectors	Snap hooks or carabineers which are integral to self retracting devices shall meet the requirements of ANSI Z359.12	Connector is marked as compliant with ANSI Z359.12	N/A	PASS
	Integral rings or similar openings intended to accept a snap hook or carabineer shall be designed to minimize the possibility of rollout	Possibility of rollout minimised		PASS
3.1.2 Locking Function	Self-retracting devices shall be automatic in their locking function	SRL automatically locks in the event of a fall	N/A	PASS
	It shall not be possible to override the self-locking feature of the device when in use	Self-locking mechanism cannot be overridden		PASS
	The design of the device shall prevent the possibility of performance being impaired by casual interference	Casual interference would not impair the performance of the device		PASS
3.1.3 Energy Absorption	Self-retracting devices which have an energy absorption function shall be designed so that it works across the whole range of the device	Energy absorption is provided across the whole range of the device	N/A	PASS
3.1.4 Visual Indicator	Self-retracting devices shall have a visual indicator that will activate in accordance with the requirements of section 3.1.9	Visual indicator is included  Indicator deployed successfully following each dynamic performance test	N/A	PASS



ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL														
3.1.5 Corrosion Protection	Protection, at a minimum, shall allow the device to operate as intended and show no signs of corrosion which, left unchecked, could result in a corrosion related failure of the device after being salt spray tested for 96 hours. Following the salt spray test the device shall pay out the line, retract and lock	Corrosion test in accordance with ASTM B 117-07a– 96 hours Neutral Salt Spray  Temperature: 35 °C Fall out rate: 1.0 ml/hr pH of test solution: 7.2 Specific gravity of test solution: 1.032	±2.0%	PASS														
		Sample 1  White & black scaling present on connector only. No other visual evidence of any corrosion present  Retraction tension following corrosion test <table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>8.5</td></tr><tr><td>0.354</td><td>10.0</td></tr><tr><td>0.708</td><td>16.0</td></tr><tr><td>1.062</td><td>14.5</td></tr><tr><td>1.416</td><td>11.0</td></tr><tr><td>1.770</td><td>14.5</td></tr></table>			Length of line (m)	Force (N)	0.305	8.5	0.354	10.0	0.708	16.0	1.062	14.5	1.416	11.0	1.770	14.5
Length of line (m)	Force (N)																	
0.305	8.5																	
0.354	10.0																	
0.708	16.0																	
1.062	14.5																	
1.416	11.0																	
1.770	14.5																	
		Sample 2  White & black scaling present on connector only. No other visual evidence of any corrosion present  Retraction tension following corrosion test <table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>17.5</td></tr><tr><td>0.354</td><td>14.0</td></tr><tr><td>0.708</td><td>18.0</td></tr><tr><td>1.062</td><td>19.5</td></tr><tr><td>1.416</td><td>25.5</td></tr><tr><td>1.770</td><td>19.5</td></tr></table>	Length of line (m)	Force (N)	0.305	17.5	0.354	14.0	0.708	18.0	1.062	19.5	1.416	25.5	1.770	19.5		PASS
Length of line (m)	Force (N)																	
0.305	17.5																	
0.354	14.0																	
0.708	18.0																	
1.062	19.5																	
1.416	25.5																	
1.770	19.5																	

ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL														
3.1.5 Corrosion Protection	Protection, at a minimum, shall allow the device to operate as intended and show no signs of corrosion which, left unchecked, could result in a corrosion related failure of the device after being salt spray tested for 96 hours. Following the salt spray test the device shall pay out the line, retract and lock	<p>Sample 3</p> <p>White &amp; black scaling present on connector only. No other visual evidence of any corrosion present</p> <p>Retraction tension following corrosion test</p> <table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>7.0</td></tr><tr><td>0.354</td><td>7.5</td></tr><tr><td>0.708</td><td>11.0</td></tr><tr><td>1.062</td><td>13.0</td></tr><tr><td>1.416</td><td>20.0</td></tr><tr><td>1.770</td><td>18.0</td></tr></table>	Length of line (m)	Force (N)	0.305	7.0	0.354	7.5	0.708	11.0	1.062	13.0	1.416	20.0	1.770	18.0	±2.0%	PASS
Length of line (m)	Force (N)																	
0.305	7.0																	
0.354	7.5																	
0.708	11.0																	
1.062	13.0																	
1.416	20.0																	
1.770	18.0																	

ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL														
3.1.6 Retraction Tension	<p>Retraction tension of the self-retracting device line, 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</p> <p>SRL-LE’s shall retract without stopping when tested in a horizontal orientation</p> <p>For SRL’s and SRL-R’s, no more than 24 inches (610mm) of the line can remain extended when the device is fully retracted.</p> <p>For SRL-LE’s, no more than 60 inches (1.5m) of the line can remain extended when the device is fully retracted</p>	Sample 1	±0.43%	PASS														
		<table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>14.20</td></tr><tr><td>0.26</td><td>9.90</td></tr><tr><td>0.52</td><td>17.55</td></tr><tr><td>0.79</td><td>22.00</td></tr><tr><td>1.05</td><td>19.80</td></tr><tr><td>1.30</td><td>20.70</td></tr></table>			Length of line (m)	Force (N)	0.305	14.20	0.26	9.90	0.52	17.55	0.79	22.00	1.05	19.80	1.30	20.70
		Length of line (m)			Force (N)													
		0.305			14.20													
		0.26			9.90													
		0.52			17.55													
		0.79			22.00													
		1.05			19.80													
		1.30			20.70													
		300mm lanyard length permanently extracted from device																
Sample 2																		
<table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>14.20</td></tr><tr><td>0.26</td><td>13.35</td></tr><tr><td>0.52</td><td>11.90</td></tr><tr><td>0.79</td><td>19.20</td></tr><tr><td>1.05</td><td>22.85</td></tr><tr><td>1.30</td><td>21.40</td></tr></table>	Length of line (m)	Force (N)	0.305	14.20	0.26	13.35	0.52	11.90	0.79	19.20	1.05	22.85	1.30	21.40				
Length of line (m)	Force (N)																	
0.305	14.20																	
0.26	13.35																	
0.52	11.90																	
0.79	19.20																	
1.05	22.85																	
1.30	21.40																	
300mm lanyard length permanently extracted from device																		
Sample 3																		
<table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>6.0</td></tr><tr><td>0.354</td><td>6.5</td></tr><tr><td>0.708</td><td>11.0</td></tr><tr><td>1.062</td><td>9.5</td></tr><tr><td>1.416</td><td>15.5</td></tr><tr><td>1.770</td><td>19.5</td></tr></table>	Length of line (m)	Force (N)	0.305	6.0	0.354	6.5	0.708	11.0	1.062	9.5	1.416	15.5	1.770	19.5				
Length of line (m)	Force (N)																	
0.305	6.0																	
0.354	6.5																	
0.708	11.0																	
1.062	9.5																	
1.416	15.5																	
1.770	19.5																	
300mm lanyard length permanently extracted from device																		



ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL
3.1.7 Static Strength	Self-retracting devices shall withstand a tensile load of 3,000 pounds (13.3kN) statically applied	Sample 1  13.3kN sustained for 1 minute without failure	± 0.37% See note 2	PASS
		Sample 2  13.3kN sustained for 1 minute without failure		
		Sample 3  13.3kN sustained for 1 minute without failure		
3.1.8 Dynamic Strength	SRL's & SRL-LE's shall lock, remain locked until released and the test weight shall not strike the ground  For SRL's and SRL-R's, the line shall retain a minimum of 1,000 (4.4kN) of residual tensile strength after the dynamic test	Sample 1  136kg test mass held  Additional information only Arrest distance: 2.0m  Residual strength: 4.4kN sustained following dynamic strength test without failure	± 4.0% See note 2	PASS
		Sample 2  136kg test mass held  Additional information only Arrest distance: 1.87m  Residual strength: 4.4kN sustained following dynamic strength test without failure		
		Sample 3  136kg test mass held  Arrest distance: 1.75m  Residual strength: 4.4kN sustained following dynamic strength test without failure		

ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL
3.1.9 Dynamic Performance	SRL's & SRL-LE's shall not exceed an arrest distance of 24 inches (610mm) and the average arresting force shall not exceed 1,350 pounds (6kN) or a maximum peak of 1,800 pounds (8kN) for class A devices  The locking function must operate and the device must pay out and retract the line after every dynamic performance test	Sample 1		
		128kg test mass held		
		Peak arrest force: 4.1kN (see figure 2)		
		Arrest distance: 0.31m		
		Average arrest force: 3.40kN		
		Device still able to retract in accordance with clause 3.1.6		
		Visual indicator deployed		
		Sample 2		
		128kg test mass held		
		Peak arrest force: 5.5kN (see figure 3)	Force ±0.37%	
		Arrest distance: 0.36m	Height ±0.22%	PASS
		Average arrest force: 3.62kN		
		Device still able to retract in accordance with clause 3.1.6		
		Visual indicator deployed		
		Sample 3		
		128kg test mass held		
		Peak arrest force: 4.8kN		
		Arrest distance: 0.29m		
		Average arrest force: 3.45kN		
		Device still able to retract in accordance with clause 3.1.6		
		Visual indicator deployed		



ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL
3.1.9 Dynamic Performance (continued)	The visual indicator shall activate when dynamic performance is tested and give clear evidence that the device has been impact loaded  The dynamic performance requirements shall also be met after conditioning to heat, cold & wet, where the average arresting force shall not exceed 1,575 pounds (7kN) or a maximum peak of 1,800 pounds (8kN) for Class A devices	<p>Sample 1</p> <p>Wet conditioning: sample sprayed with 70 litres/hour of water for 3 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 4.8kN (See figure 5)</p> <p>Average arrest force: 3.91kN</p> <p>Arrest distance: 0.21m</p>	<p>Force ±0.37%</p> <p>Height ±0.22%</p>	PASS
		<p>Sample 2</p> <p>Wet conditioning: sample sprayed with 70 litres/hour of water for 3 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 4.3kN (See figure 6)</p> <p>Average arrest force: 3.47kN</p> <p>Arrest distance: 0.29m</p>		
		<p>Sample 3</p> <p>Wet conditioning: sample sprayed with 70 litres/hour of water for 3 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 5.1kN (See figure 7)</p> <p>Average arrest force: 3.86kN</p> <p>Arrest distance: 0.25m</p>		

ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL
3.1.9 Dynamic Performance (continued)	The visual indicator shall activate when dynamic performance is tested and give clear evidence that the device has been impact loaded  The dynamic performance requirements shall also be met after conditioning to heat, cold & wet, where the average arresting force shall not exceed 1,575 pounds (7kN) or a maximum peak of 1,800 pounds (8kN) for Class A devices	<p>Sample 1</p> <p>Cold conditioning: sample placed in a freezer at -40°C for 2 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 3.3kN (See figure 8)</p> <p>Average arrest force: 2.82kN</p> <p>Arrest distance: 0.27m</p>	<p>Force ±0.37%</p> <p>Height ±0.22%</p>	PASS
		<p>Sample 2</p> <p>Cold conditioning: sample placed in a freezer at -40°C for 2 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 4.6kN (See figure 9)</p> <p>Average arrest force: 3.80kN</p> <p>Arrest distance: 0.20m</p>		
		<p>Sample 3</p> <p>Cold conditioning: sample placed in a freezer at -40°C for 2 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 5.7kN (See figure 10)</p> <p>Average arrest force: 3.82kN</p> <p>Arrest distance: 0.35m</p>		



ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL
3.1.9 Dynamic Performance (continued)	The visual indicator shall activate when dynamic performance is tested and give clear evidence that the device has been impact loaded  The dynamic performance requirements shall also be met after conditioning to heat, cold & wet, where the average arresting force shall not exceed 1,575 pounds (7kN) or a maximum peak of 1,800 pounds (8kN) for Class A devices	<p>Sample 1</p> <p>Heat conditioning: sample placed in a heated chamber at 54°C &amp; 85% relative humidity for 2 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 4.4kN</p> <p>Average arrest force: 3.75kN</p> <p>Arrest distance: 0.37m</p>	Force ±0.37%	PASS
		<p>Sample 2</p> <p>Heat conditioning: sample placed in a heated chamber at 54°C &amp; 85% relative humidity for 2 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 4.1kN (See figure 12)</p> <p>Average arrest force: 3.15kN</p> <p>Arrest distance: 0.32m</p>		
		<p>Sample 3</p> <p>Heat conditioning: sample placed in a heated chamber at 54°C &amp; 85% relative humidity for 2 hours. Test carried out within 90 seconds of removal</p> <p>128kg test mass held</p> <p>Device still able to retract in accordance with clause 3.1.6</p> <p>Visual indicator deployed</p> <p>Peak arrest force: 5.6kN</p> <p>Average arrest force: 4.10kN</p> <p>Arrest distance: 0.41m</p>	Height ±0.22%	



Table 2 – Testing of Self-retracting device described as “BLOQUE AUTORETRACTIL DE 2M 6FT (CODE 500877)” with new nickel plated brake pawls in accordance with ANSI Z359.14 – 2014 clause 3.1.5

ANSI Z359.14 – 2014 CLAUSE / TEST	ANSI Z359.14 – 2014 REQUIREMENT	TEST RESULTS	UoM (See note 1)	PASS / FAIL														
3.1.5 Corrosion Protection	Protection, at a minimum, shall allow the device to operate as intended and show no signs of corrosion which, left unchecked, could result in a corrosion related failure of the device after being salt spray tested for 96 hours. Following the salt spray test the device shall pay out the line, retract and lock	<div>Corrosion test in accordance with ASTM B 117-07a– 96 hours Neutral Salt Spray</div> <div>Temperature: 35 °C Fall out rate: 1.1 ml/hr pH of test solution: 6.4 Specific gravity of test solution: 1.030</div> <div>Sample 1</div> <div>Moderate scaling present on connector only. No other visual evidence of any corrosion present</div> <div>Retraction tension following corrosion test</div> <table><tr><th>Length of line (m)</th><th>Force (N)</th></tr><tr><td>0.305</td><td>8.35</td></tr><tr><td>0.37</td><td>6.50</td></tr><tr><td>0.74</td><td>8.60</td></tr><tr><td>1.11</td><td>11.60</td></tr><tr><td>1.48</td><td>21.45</td></tr><tr><td>1.83</td><td>17.90</td></tr></table> <div>See note 3</div>	Length of line (m)	Force (N)	0.305	8.35	0.37	6.50	0.74	8.60	1.11	11.60	1.48	21.45	1.83	17.90	±2.0%	PASS
Length of line (m)	Force (N)																	
0.305	8.35																	
0.37	6.50																	
0.74	8.60																	
1.11	11.60																	
1.48	21.45																	
1.83	17.90																	

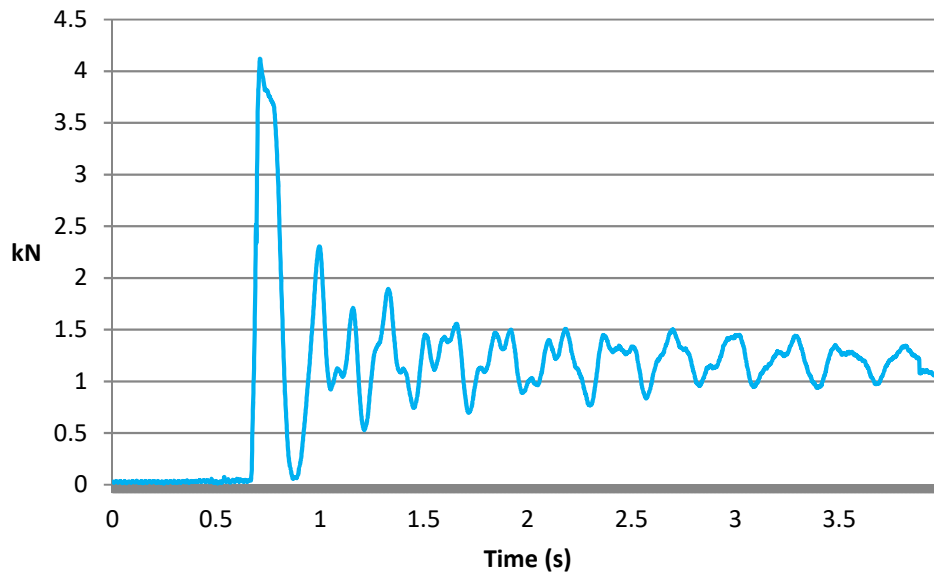


Figure 2 – Dynamic performance test: Graph of force vs. time

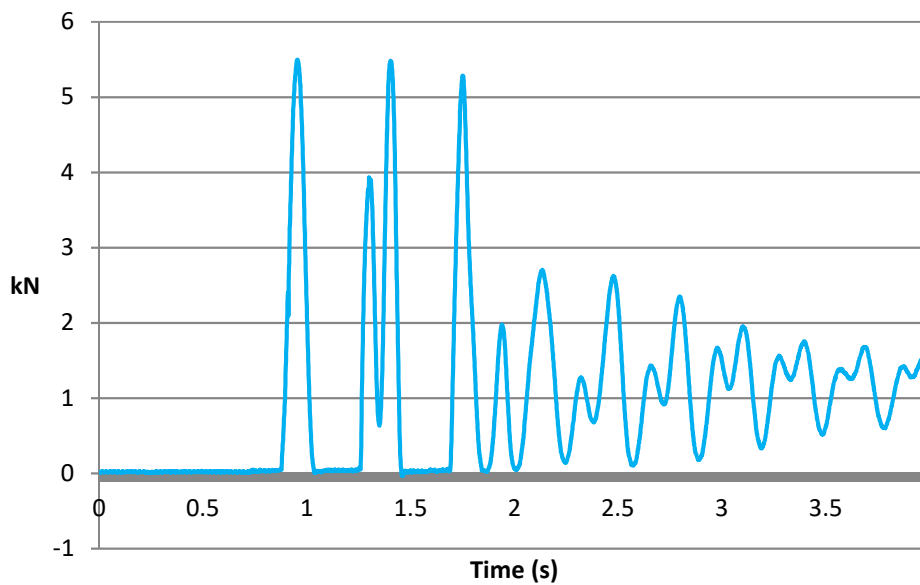


Figure 3 – Dynamic performance test: Graph of force vs. time

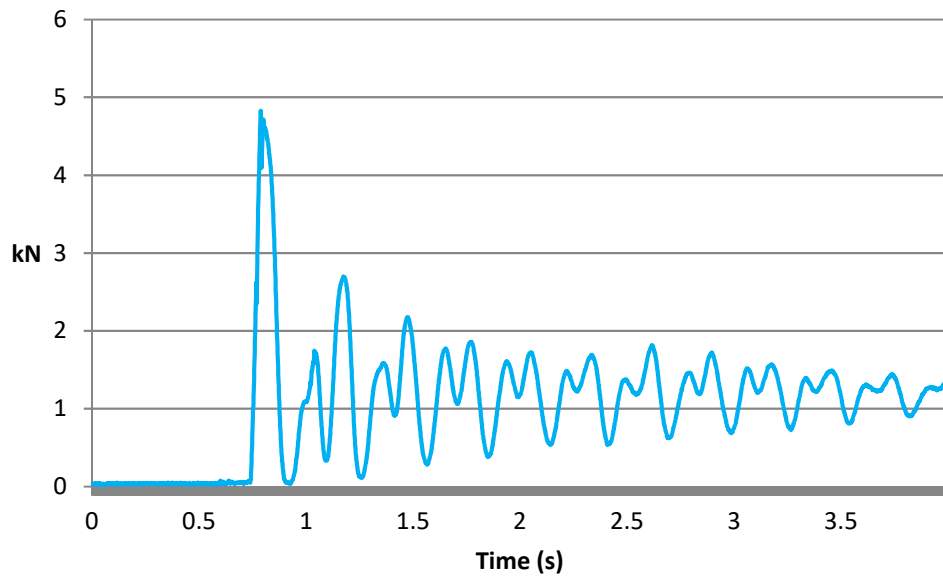


Figure 5 – Dynamic performance test: Graph of force vs. time

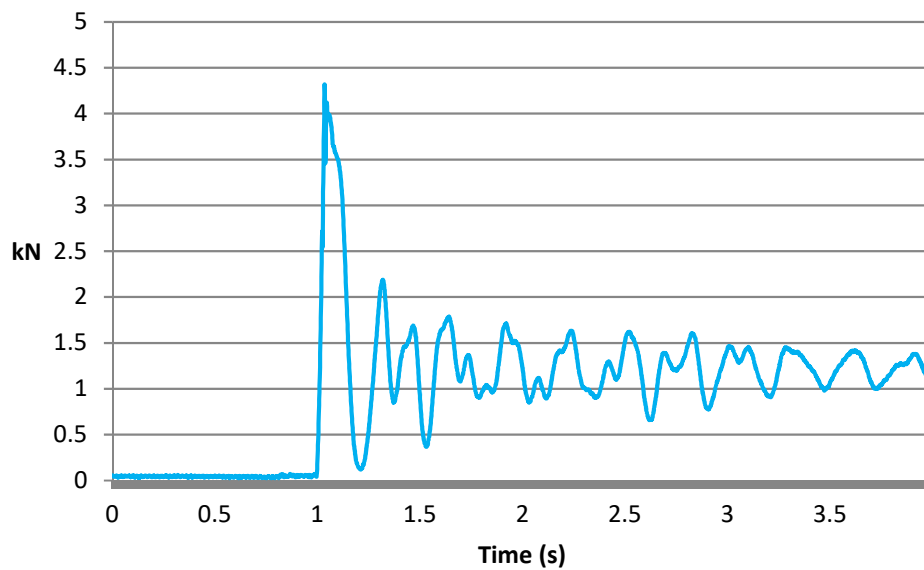


Figure 6 – Dynamic performance test: Graph of force vs. time



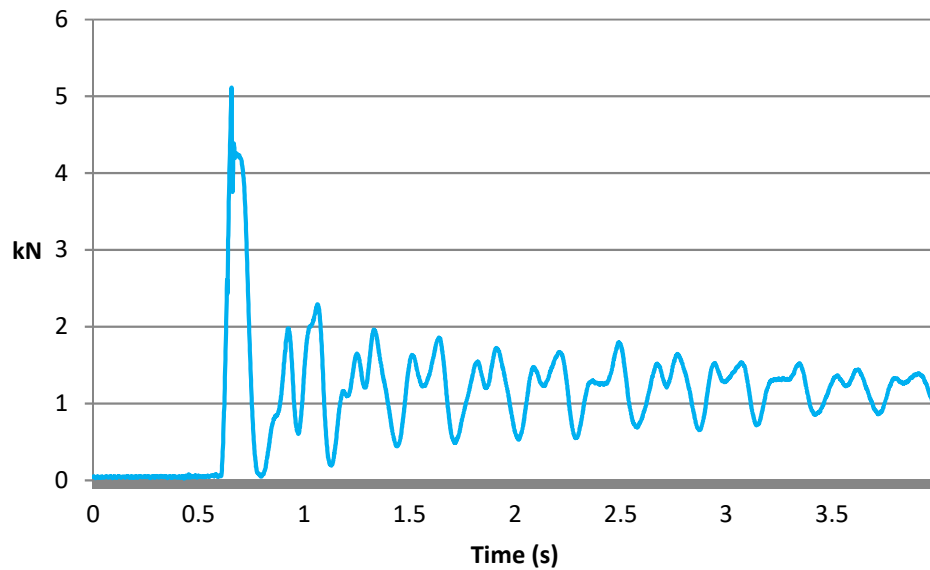


Figure 7 – Dynamic performance test: Graph of force vs. time

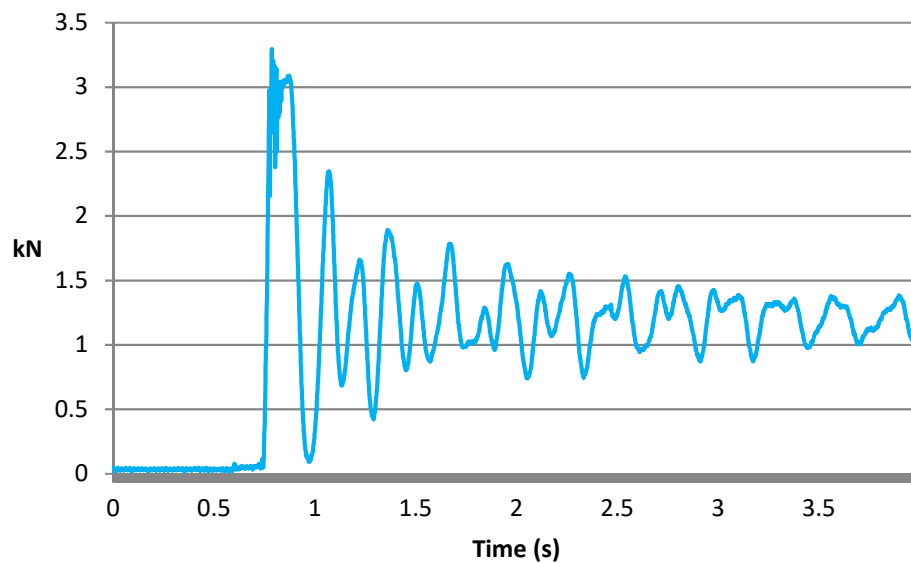


Figure 8 – Dynamic performance test: Graph of force vs. time

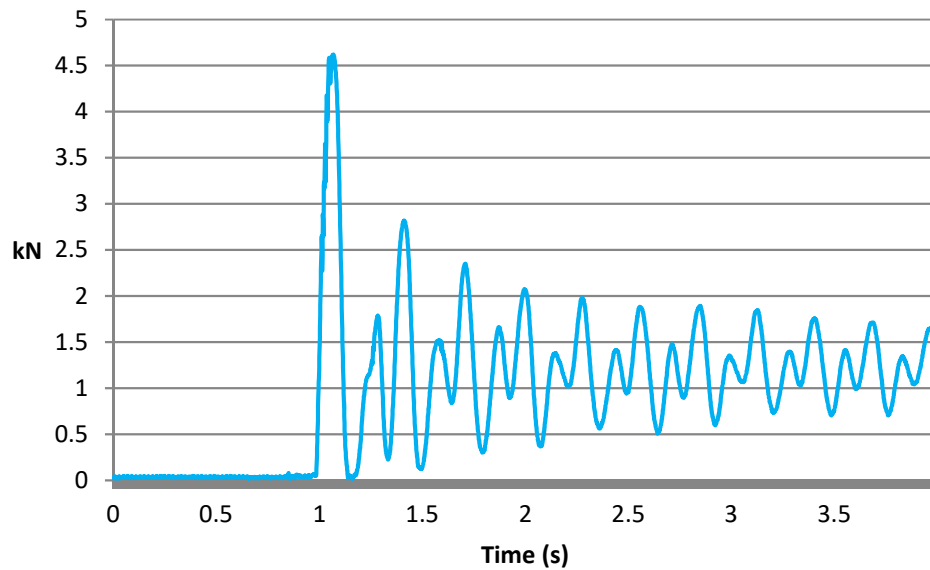


Figure 9 – Dynamic performance test: Graph of force vs. time

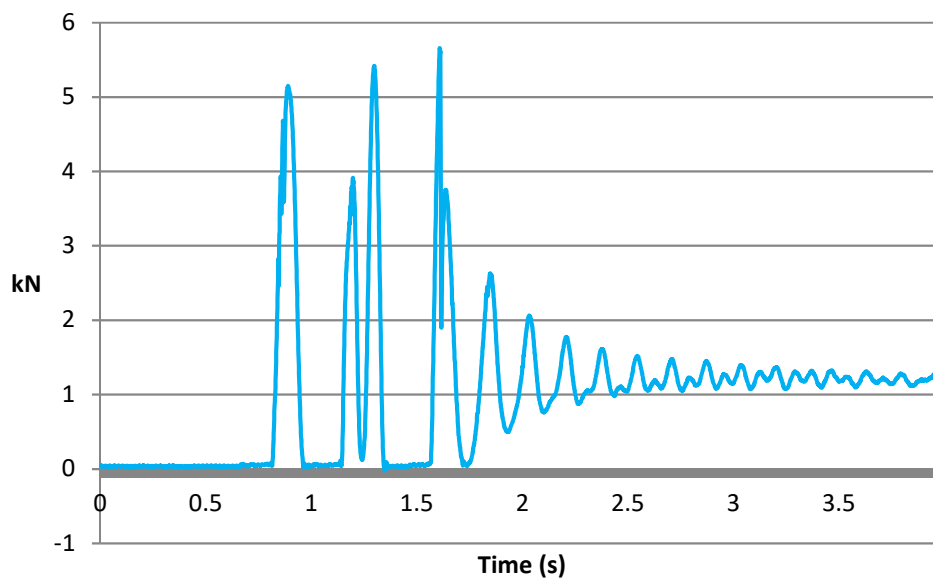


Figure 10 – Dynamic performance test: Graph of force vs. time

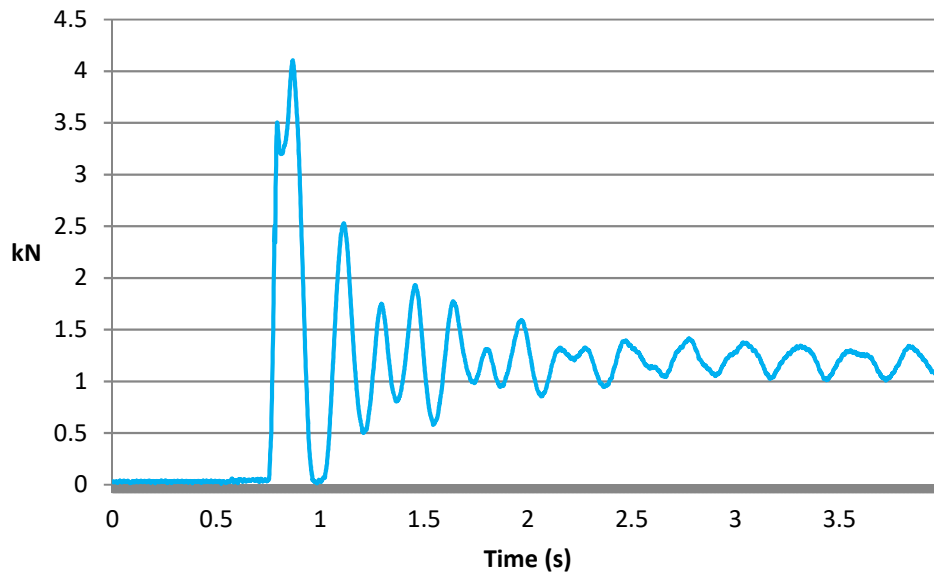


Figure 12 – Dynamic performance test: Graph of force vs. time

## ADDITIONAL INFORMATION / NOTES

Note 1 – ‘UoM’ denotes estimated Uncertainty of Measurement for stated test results. This uncertainty value is based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , which provides for a confidence level of approximately 95%

Note 2 – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Note 3 – Testing carried out under job reference SPC0256038/1714

\*\*\*\*\* END OF REPORT \*\*\*\*\*



## TERMS AND CONDITIONS OF BUSINESS

1. **GENERAL**  
Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.
2. **PRICES**  
Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.
3. **DELIVERY ESTIMATES**  
Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.
4. **CANCELLATION AND RETURNS**  
Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.
5. **CLAIMS**  
Claims for errors, shortages etc should be notified within 10 days of date of receipt. In the event of goods damaged in transit, packing materials should be retained for examination; otherwise no liability can be accepted.
6. **PAYMENT TERMS**  
Payment terms are net 21 days from date of invoice. Failure to comply with the terms of payment may result in delayed delivery of goods and services and a review of the Customer's credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, SATRA has a right to cancel any contract and discontinue any work. SATRA reserves the right to adjust US Dollar and Euro sales price where customer exceeds credit terms and where the exchange rate has moved more than 10% since invoicing.
7. **RETENTION OF TITLE**  
All goods remain the property of SATRA until paid in full. Under no circumstances will a customer's purchase order override SATRA's Retention of Title clause. In the case of software, the ownership of the software remains with SATRA. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of SATRA or (b) they cease trading. In both instances, the licence shall then revert to SATRA.
8. **GUARANTEE**  
All goods manufactured by SATRA are guaranteed both as regards material and workmanship. Any part returned carriage paid, within twelve months from date of supply and found defective, will be repaired or replaced at SATRA's option free of charge. SATRA admits no liability for loss, damage or delay consequent on any defect in any goods supplied by SATRA.
9. **TEST REPORTS**  
Results given in test reports refer only to samples submitted for analysis and tested by SATRA. A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the Customer as a result of information supplied in a test report.
10. **TEST SAMPLES**  
Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.
11. **RESPONSIBILITY**  
Every effort is made to ensure accuracy in description, drawings and other information in correspondence, catalogues, etc but no warranty is given in this respect and SATRA shall not be liable for any error therein. SATRA carries out all tests and/or advises only on the basis that the same are carried out, made or given without any responsibility whether for negligence or otherwise. SATRA and its servants or agents will not be liable for any damage or loss direct or indirect of whatsoever kind, whether or not the same results directly or indirectly from negligence on the part of SATRA or its servants or agents.
12. **CONFIDENTIALITY**  
Unless specifically excluded in the terms of an individual contract between SATRA and its Customer, the following shall apply to all reports, advice, drawings, photographs, specifications or data:
  - i. The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
  - ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
  - iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.
13. **CONSTRUCTION AND ARBITRATION**  
The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.