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For the attention of: CK Leong

Technical Report

Subject: TESTING OF TRIPOD AND WINCH DESCRIBED AS "HD-240" IN

ACCORDANCE WITH EN 795: 2012 TYPE B AND EN 1496: 2006 TYPE A

Your ref: TA14/0021

Our ref: SPC0222491/1408/2 Issue 2

Date: 21st November 2014

This replaces report reference SPC0222491/1408/2 dated 27th May 2014

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 It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.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.

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

Harrison



WORK REQUESTED

Samples of tripod and winch, described as "HD-240", were received by SATRA on 21st February & 19th September 2014, for testing in accordance with EN 795: 2012 type B & EN 1496: 2006 Type A

CONCLUSIONS

SAMPLE REFERENCE	STANDARD	CLAUSE / PROPERTY	PASS / FAIL
		4.1 General	PASS
	EN 795: 2012	4.2 Materials	Not fully assessed
		4.3 Design and ergonomics	PASS
		4.4 Specific requirements – type B	PASS
HD-240 (with 20m		4.1 General	PASS
and 35m winches)	winches)	4.2 Ergonomics	PASS
and 33m whiches)		4.3 Materials and construction	Not fully assessed
40, 30,	EN 1496: 2006	4.4 Function for class A rescue lifting devices	PASS
	ER IENIE	4.6 Static strength	PASS
* SER	VBC. 101	4.7 Corrosion resistance	PASS

TESTING

Testing was carried out in accordance with EN 795: 2012 between 30th April & 19th November 2014

The anchor device is intended as a type B (temporary transportable) device, intended to be used on a solid structure

For the purposes of testing, the anchor device was installed on concrete, with test forces applied in a vertical direction

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

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Figure 1 – Tripod and winch described as "HD-240"





TEST RESULTS

Table 1 – Testing of anchor device described as "HD-240" in accordance with EN 795: 2012 as a type B device

EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.1 General	Anchor devices shall be designed so that they can be removed from the structure, without	Anchor device can be removed without damaging itself or the structure		PASS
	damaging the structure or anchor, thus allowing reuse	CHNOLO		
	U-bolt clamps shall not be used for terminations in any part of an anchor device	No U-bolt clamps used on product		PASS
NOV- 20	It shall not be possible for elements with an anchor point to become detached unintentionally. If an element can be removed	Unintentional detachment unlikely during normal use. All components require at least 2 deliberate manual actions to remove	JEMBE	PASS
2014 NO.	it shall be designed to have at least 2 separate deliberate manual actions	JEME NOVI 2014 REF	N/A	NBEN N
NON-YA	Anchor devices shall allow connectors to rotate freely and sit in the anchor in the preferred load-bearing position	Connectors are free to rotate and sit in the preferred load bearing position	BER 14 NC	PASS
BER NOV	Where an anchor device comprises more than one element, the design shall be such that those elements cannot appear to be correctly assembled without being positively locked together	Incorrect assembly would be visually evident	EN 20 EN 20	PASS

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EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.1 General (continued)	The mass of any element of an anchor device that is intended to be transported shall be less than 25kg	Anchor device including largest winch has a weight of 12kg		PASS
	If a fall indicator is incorporated, the indicator shall clearly show when a fall has occurred	Indicator deployed during tests on winch attachment		PASS
	If an anchor device consists of a combination of several types, it shall be tested for each type and for the combination	Not applicable – Anchor device is only type B	N/A	N/A
	If the manufacturer permits loading in more than one direction, then each safety critical direction shall be tested	Not applicable – Loading can only occur in one direction	EMBE O1	N/A
4.2.1 Materials – Metal parts	Metallic parts shall show no evidence of any corrosion that could affect the function of the device (white scaling or tarnishing is acceptable)	Corrosion test in accordance with ISO 9227: 2012 - 24 hours Neutral Salt Spray, followed by 1 hour drying, followed by a further 24 hour exposure Temperature: 35 °C Fall out rate: 1.96 ml/hr pH of test solution: 6.8 Specific gravity of test solution: 1.030 Very light white scaling present on all metallic components. Heavy white scaling present on chain. No other visual evidence of any corrosion present	See table 4 See note 2	PASS See note 4
	If steel wire ropes are galvanised, this shall be done in accordance with ISO 2232	Not assessed	10VE	Not assessed
4.2.3 Materials - Connectors	Connectors shall conform to EN 362	Connectors are marked as being compliant with EN 362	N/A	PASS

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EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.3 Design and ergonomics	Anchor devices shall not have sharp edges or burrs that may cause injury to the user or that may damage itself or any other equipment it may come into contact with	No sharp edges or burrs that could add additional risk to the user	N/A	PASS
4.4.2.1 Specific requirements – Type B anchor deformation test	No part of a type B anchor excluding rope and webbing slings manufactured from man-made fibres, which is intended to deform, shall demonstrate permanent deformation of more than 10mm	Attachment point: Winch 0.7kN load applied for 1 minute Permanent deformation: 0 Attachment point: Eyebolt 0.7kN load applied for 1 minute Permanent deformation: 0	± 50 N See note 2	PASS
4.4.2.2 Specific requirements – Type B anchor dynamic strength & integrity test	When tested dynamically with a rigid steel mass of 100 kg, the test mass shall be arrested. The anchor must then hold an increased mass of 300kg for 3 minutes	Attachment point: Winch 100kg mass held following 3.6m freefall using 2m EN 892 reference lanyard Peak arrest force: 7.2kN (see figure 2) Displacement of anchor point: 0 Residual strength: 300kg held for 3 minutes following dynamic test Attachment point: Eyebolt 100kg mass held following 3.6m freefall using 2m EN 892 reference lanyard Peak arrest force: 8.7kN (see figure 3) Displacement of anchor point: 0 Residual strength: 300kg held for 3 minutes following dynamic test	± 40 mm See note 2	PASS
4.4.2.3 Specific requirements – Type B anchor static strength test	Metallic elements shall sustain a force of at least 12 kN for 3 minutes without release, and non-metallic elements shall sustain a force of at least 18kN for 3 minutes without release	Attachment point: Winch 12kN sustained for 3 minutes without failure See note 3	± 50 N See note 2	PASS

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EN 795: 2012	EN 795: 2012	RESULT / COMMENT	UoM	PASS /
CLAUSE / TEST	REQUIREMENT		(See note 1)	FAIL
4.4.2.3 Specific requirements – Type B anchor static strength test (continued)	Metallic elements shall sustain a force of at least 12 kN for 3 minutes without release, and non-metallic elements shall sustain a force of at least 18kN for 3 minutes without release	Attachment point: Eyebolt 12kN sustained for 3 minutes without failure See note 3	± 50 N See note 2	PASS

Table 2 – Testing of rescue device described as "HD-240-20" in accordance with EN 1496: 2006

EN 1496: 2006 CLAUSE / TEST	EN 1496: 2006 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.1 General	A rescue lifting device integrated into a fall protection system shall meet the requirements of	Rescue lifting device passes the requirements of EN 1496: 2006		PASS
- 2107 °C	EN 1496: 2006 whilst in rescue mode	Br. Mr. Mr. D) ' _c	
EMBER 21	If the rescue lifting device is intended to be fitted to a tripod or similar anchor device according to EN 795, the whole unit combined shall meet EN 1496: 2006	Rescue lifting device tested together with the tripod that it is intended to be used with	N/A	PASS
4.2 Ergonomics	When tested in accordance with 5.5	Maximum rated load: 100kg	SER	ENB
2 20 VEN	(operating force test) with a mass equivalent to the maximum rated load, the operating force for lifting the test mass shall not exceed 250 N	Force required on handle to lift maximum rated load: 87N	± 5%	PASS





EN 1496: 2006	EN 1496: 2006		UoM	PASS /
CLAUSE / TEST	REQUIREMENT	RESULT / COMMENT	(See note 1)	FAIL
4.3.1 Materials and	Materials used in the	Not assessed		Not
construction –	rescue lifting device that			assessed
General	may come into contact			
	with the skin of a user			
	shall not be known to			
	cause irritating or			
	sensitization effects		N/A	
	during intended use		IN/A	
	The rescue lifting device shall have no sharp	No sharp edges or burrs that could add additional risk to user		PASS
	edges and burrs that			
	may cause injury to the			
42224 : 1 1	user	W. 11 ' 1 C 1 '		
4.3.2 Materials and	Lines shall be made	Winch line is made from steel wire		
construction –	from textile rope or		N/A	PASS
Lines	webbing or from steel			
	wire			





EN 1496: 2006 CLAUSE / TEST	EN 1496: 2006 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.3.3 Material and construction – Ropes and webbings	Fibre ropes of a non- sheathed core construction shall conform to EN ISO 1140 or EN ISO 1141	Not applicable		N/A
	Fibre ropes of kernmantel construction shall conform to EN 1891: 1998, type A	Not applicable		N/A
	Wire ropes shall conform to ISO 2232	Not assessed)G	Not assessed
	Webbings and yarns shall be made of filament or	Not applicable		N/A
EMBER 20	multifilament synthetic fibres, suitable for the use intended. The breaking tenacity of the synthetic fibre shall be known to be at least 0.6 N/tex	BLNOVE 14 NC 2	N/A	
014 NBEP 10 VENBEP 2 2014 N 2 2014 14 NO VEND 14 NO 2014	Threads used for sewing shall be physically compatible with the rope or webbing and their quality shall be comparable to those of the rope or webbing. They shall, however, be of a contrasting shade in order to facilitate visual inspection	Not applicable	NOVE BER 14 NO 14 NBE	N/A
4.3.4 Materials and construction – Connectors	Connectors shall conform to EN 362	Connectors are marked as compliant with EN 362	N/A	PASS
4.4 Function for class A rescue lifting devices	The test mass shall be arrested within a vertical distance of 100 mm	Test 1 Conditions: As received Test mass: 150kg Pre-test mass height: 1.0m Post-test mass height: 1.0m Arrest distance: <5mm	± 20 mm	PASS

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EN 1496: 2006 CLAUSE / TEST	EN 1496: 2006 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.4 Function for	The test mass shall be	Test 2		
class A rescue	arrested within a vertical	Conditions: As received		
lifting devices	distance of 100 mm	Test mass: 30kg		
		Pre-test mass height: 1.0m		
		Post-test mass height: 1.0m		
		Arrest distance: <5mm		
		Test 3		
		Conditions: under simulated rain fall for		
		24 hours		
		Test mass: 150kg	20	DAGG
		Pre-test mass height: 1.0m	± 20 mm	PASS
		Post-test mass height: 1.0m		
		Arrest distance: <5mm		
		Test 4		
		Conditions: under simulated rain fall for		
		24 hours		
		Test mass: 30kg		
		Pre-test mass height: 1.0m		
		Post-test mass height: 1.0m		
~10 _A , ~0	7 2 1	Arrest distance: <5mm	0, ~	R
4.6 Static strength	When tested with a test force equivalent to 10	See table 1 clause 4.4.2.3 for test result	ENBE	40
NOV	times the maximum	See note 3	1	\ \ \ \
EM, OM	rated load (minimum	See note 3	007	-a
IN MO	12kN), the rescue lifting	ICNIN TON TYPIN	± 50 N	PASS
ILA CE	device shall withstand	15. " HO 001, VEL	See note 2	17100
01, 135,	the force applied for 3	ath a late		
CNIL	min without tearing or	oo, ok, kin	70 4	7/14
WE, M	rupture	The War	10	10.
4.7 Corrosion	Metal parts shall show	Corrosion test in accordance with	6	
resistance	no evidence of corrosion	ISO 9227: 2012 – 24 hours Neutral Salt	35,	TEW.
Tesistance	that would affect the	Spray, followed by 1 hour drying, then a	1 - 1 C	7
2 WEIGHT	function of the rescue	further 24 hours exposure	1 100	00
, "10, "	lifting device (white	Turther 24 hours exposure	14	2
A Parado	scaling or tarnishing is	Temperature: 35 °C	See	1
12 JO,	acceptable if the	Fall out rate: 1.96 ml/hr	table 4	PASS
12 1	function is not impaired)	pH of test solution: 6.8	See note 2	See note 4
ak 101	runction is not impaned)	Specific gravity of test solution: 1.030	See Hote 2	` .0
IV NO	MA SER	Specific gravity of test solution. 1.050	00,	OFF
-014 0	O, "UBL. IC	Very light white scaling present on all	3 -	10
20 0	IEM, ON	metallic components. No other visual	-11EI	. 4
		THE WILL CONTROLLED, 130 OUICE VIOUAL		

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Table 3 – Testing of rescue device described as "HD-240-35" in accordance with EN 1496: 2006

EN 1496: 2006 CLAUSE / TEST	EN 1496: 2006 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.1 General	A rescue lifting device integrated into a fall protection system shall meet the requirements of EN 1496: 2006 whilst in	Rescue lifting device passes the requirements of EN 1496: 2006		PASS
	If the rescue lifting device is intended to be fitted to a tripod or similar anchor device according to EN 795, the whole unit combined shall meet EN 1496: 2006	Rescue lifting device tested together with the tripod that it is intended to be used with	N/A	PASS
4.2 Ergonomics	When tested in accordance with 5.5 (operating force test) with a mass equivalent to the maximum rated load, the operating force for lifting the test mass shall not exceed 250 N	Maximum rated load: 100kg Force required on handle to lift maximum rated load: 89N	± 5%	PASS
4.3.1 Materials and construction – General	Materials used in the rescue lifting device that may come into contact with the skin of a user shall not be known to cause irritating or sensitization effects during intended use	Not assessed	N/A	Not assessed
BER NOV	The rescue lifting device shall have no sharp edges and burrs that may cause injury to the user	No sharp edges or burrs that could add additional risk to user	EMBE 2014	PASS
4.3.2 Materials and construction – Lines	Lines shall be made from textile rope or webbing or from steel wire	Winch line is made from steel wire	N/A	PASS

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EN 1496: 2006 CLAUSE / TEST	EN 1496: 2006 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.3.3 Material and construction – Ropes and webbings	Fibre ropes of a non- sheathed core construction shall conform to EN ISO 1140 or EN ISO 1141	Not applicable		N/A
	Fibre ropes of kernmantel construction shall conform to EN 1891: 1998, type A	Not applicable		N/A
	Wire ropes shall conform to ISO 2232	Not assessed)G	Not assessed
	Webbings and yarns shall be made of filament or	Not applicable		N/A
EMBER 20	multifilament synthetic fibres, suitable for the use intended. The breaking tenacity of the synthetic fibre shall be known to be at least 0.6 N/tex	BLNOVE 14 NC 2	N/A	
014 NBEP 10 VENBEP 2 2014 N 2 2014 14 NO VEND 14 NO 2014	Threads used for sewing shall be physically compatible with the rope or webbing and their quality shall be comparable to those of the rope or webbing. They shall, however, be of a contrasting shade in order to facilitate visual inspection	Not applicable	NOVE BER 14 NO 14 NBE	N/A
4.3.4 Materials and construction – Connectors	Connectors shall conform to EN 362	Connectors are marked as compliant with EN 362	N/A	PASS
4.4 Function for class A rescue lifting devices	The test mass shall be arrested within a vertical distance of 100 mm	Test 1 Conditions: As received Test mass: 150kg Pre-test mass height: 1.0m Post-test mass height: 1.0m Arrest distance: <5mm	± 20 mm	PASS

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EN 1496: 2006 CLAUSE / TEST	EN 1496: 2006 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.4 Function for	The test mass shall be	Test 2		
class A rescue	arrested within a vertical	Conditions: As received		
lifting devices	distance of 100 mm	Test mass: 30kg		
		Pre-test mass height: 1.0m		
		Post-test mass height: 1.0m		
		Arrest distance: <5mm		
		Test 3		
		Conditions: under simulated rain fall for		
		24 hours		
		Test mass: 150kg	20	D 4 GG
		Pre-test mass height: 1.0m	± 20 mm	PASS
		Post-test mass height: 1.0m		
		Arrest distance: <5mm		
		Test 4		
		Conditions: under simulated rain fall for		
		24 hours		
		Test mass: 30kg		
		Pre-test mass height: 1.0m		
		Post-test mass height: 1.0m		
~10 ³ ~0	7 2 2	Arrest distance: <5mm	0, ~	R
4.6 Static strength	When tested with a test	12kN sustained for 3 minutes without	. NO	, O)
	force equivalent to 10	failure	ENIE	NO
- NOV IF	times the maximum	IN CERTIFICATION	1	× ' (
Ela. OAL	rated load (minimum	See note 3	607	-0
I No	12kN), the rescue lifting	EAL MON STAY	$\pm 50 \text{ N}$	PASS
-14 CP	device shall withstand	1, 6, 00, 20,	See note 2	115 -20
0, 185	the force applied for 3	ath a show	NE	
ENIL	min without tearing or	JO, OK, JEW,	70,	075
· Mr. M	rupture	CNILLION	(· 01
4.7 Corrosion	Metal parts shall show	Corrosion test in accordance with	-CP	
resistance	no evidence of corrosion	ISO 9227: 2012 – 24 hours Neutral Salt	Br, ~	JE1
	that would affect the	Spray, followed by 1 hour drying, then a	, ~ ~ (C	7
L WELL	function of the rescue	further 24 hours exposure	See	PASS
NO N	lifting device (white	Tarini 2 i nosio enpossio	table 4	See note 4
AL	scaling or tarnishing is	See table 2 clause 4.7 for test result	See note 2	See Hote 4
12 50.	acceptable if the	See table 2 clause 117 for test festit	CNIC	101/
CRI	function is not impaired)	The same of	The A	M
	1 anction is not impaned)		N	1

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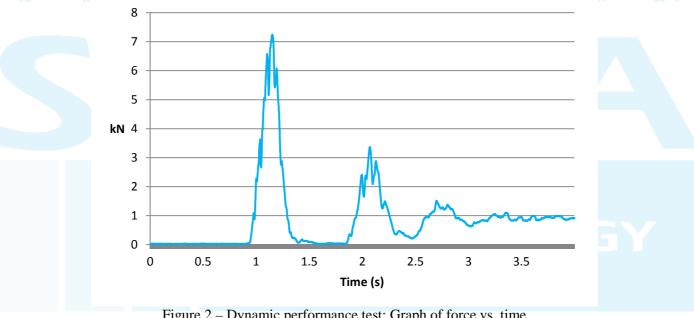


Figure 2 – Dynamic performance test: Graph of force vs. time

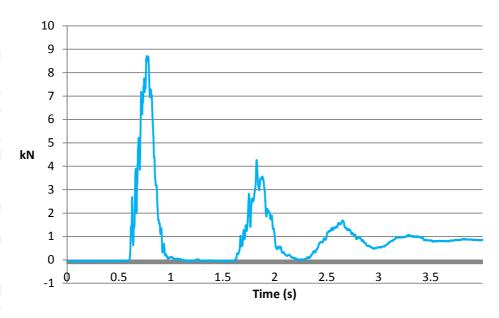


Figure 3 – Dynamic performance test: Graph of force vs. time





ADDITIONAL INFORMATION / NOTES

Table 4 – Additional uncertainty of measurement information (see note 1)

CLAUSE	TEST / COMPONENT	UoM (see note 1)
4.7 Corrosion resistance	Temperature	± 0.99 °C
	Fall-out rate of collected solution	± 2.25 ml (± 0.04 ml/hour for 24 hours)
	Specific gravity of collected solution	$\pm 0.0010 \text{ g/ml}$
	pH value of collected solution	± 0.1
	Angle of sample mounting (if applicable)	± 1.44°

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 – Static strength testing carried out by manually increasing loading, therefore rate of stressing / crosshead velocity as per EN 364: 1992 Clauses 4.1.2.1 & 4.1.2.2 cannot be accurately determined (see VG11 recommendation for use sheet CNB/P/11.023 dated 25.10.2007)

Note 4 – Testing carried out under job reference SPC0229252/1443

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TERMS AND CONDITIONS OF BUSINESS

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 <u>SATRA</u> and a charge will normally be made.

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.

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.

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.

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