

For the attention of: Leon Gosens

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Customer details:

Zoontjens Beton BV Centaurusweg 19-25 PO Box 61 5000 AB TILBURG Netherlands SATRA reference: SPC0255143 /1710

Your reference:

Date of report:

Samples received: 20 March 2017

Date(s) work carried out: 21 March 2017

31 March 2017

TECHNICAL REPORT

Subject:

Testing of anchor device described as "BIBO" in stalled on a variety of surfaces in accordance with the test methods of EN 795: 2012 & CEN/TS 16415: 2013≠

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 It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.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 \neq 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 client as a result of information supplied in the report.

The uncertainty of the results (UoM) in this report is based on a standard uncertainty multiplied by a coverage factor k=2, which provides for a confidence level of approximately 95%.

Report signed by: Position: Department: Daniel Harrison PPE Technologist Safety Product Testing

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WORK REQUESTED

Samples of anchor device, described as "BIBO" in stalled on a variety of surfaces, were received by SATRA on 20th March 2017, for testing in accordance with the test methods of EN 795: 2012 & CEN/TS 16415: 2013≠

CONCLUSIONS

SAMPLE REFERENCE	STANDARD	CLAUSE / PROPERTY	PASS / FAIL
DIDO (installed on	EN 795: 2012	4.4.1.2 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
BIBO (installed on bitumen by heating pads of sample and	EN 795. 2012	4.4.1.3 Specific requirements – Type A anchor static strength test	PASS
pressing into roof surface)	CEN/TS 16415: 2013≠	4.2.1.1 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
Sunace)	CEN/13 10415. 2013#	4.2.1.2 Specific requirements – Type A anchor static strength test	PASS
	EN 795: 2012	4.4.1.2 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
BIBO (installed on	EN 795. 2012	4.4.1.3 Specific requirements – Type A anchor static strength test	PASS
PVC using adhesive)	CEN/TS 16415: 2013≠	4.2.1.1 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
22°-04'	CEN/13 10415. 2013+	4.2.1.2 Specific requirements – Type A anchor static strength test	PASS
MARTI	EN 795: 2012	4.4.1.2 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
BIBO (installed on 1	EN 795. 2012	4.4.1.3 Specific requirements – Type A anchor static strength test	PASS
AU using adhesive)	CEN/TS 16415: 2013≠	4.2.1.1 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
	CEN/13 10415. 20134	4.2.1.2 Specific requirements – Type A anchor static strength test	PASS
120 CH. 10	EN 705: 2012	4.4.1.2 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
BIBO (installed on 2	EN 795: 2012	4.4.1.3 Specific requirements – Type A anchor static strength test	PASS
BE using adhesive)	CEN/TS 16415: 2013≠	4.2.1.1 Specific requirements – Type A anchor dynamic strength & integrity test	PASS
201 APU	GENVIS 10413. 2013+	4.2.1.2 Specific requirements – Type A anchor static strength test	PASS

Note 4 – Whilst the anchor devices listed above meet the requirements of EN 795: 2012 type A clauses 4.4.1.2, 4.4.1.3 & CEN/TS 16415: 2013 type A clauses 4.2.1.1 & 4.2.1.2, the anchor device does not fall within the scope of the standards and therefore cannot be marked as meeting these standards

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TESTING

Testing was carried out in accordance with EN 795: 2012 & CEN/TS 16415: 2013≠ on the 21st March 2017 in the presence of Leon Gosens and Ton Berlee of Zoontjens Beton BV

The anchor device allows up to a maximum of 3 users to be attached simultaneously

For the purposes of testing the roofing material was installed onto a wooden board and then fixed to the test bed using 4 x M12 fixings. The BIBO blocks were then installed onto the roofing surface as per manufactures instructions. Samples arrived at SATRA already installed on wooden board

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



Figure 1 – Anchor device described as "BIBO" (installed on bitumen by heating pads of sample and pressing into roof surface)

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Figure 2 – Anchor device described as "BIBO" (installed on PVC using adhesive)



Figure 3 – Anchor device described as "BIBO" (installed on 1 AU using adhesive)

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Figure 4 – Anchor device described as "BIBO" (installed on 2 BE using adhesive)

TEST RESULTS

Table 1 – Testing of anchor device described as "BIBO" (installed on bitumen by heating pads of sample and pressing into roof surface) in accordance with EN 795: 2012 as a type A device

	EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
<	4.4.1.2 Specific requirements – Type A anchor	When tested dynamically with a rigid steel mass of 100 kg,	100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard	. 40 mm	H20
	dynamic strength & integrity test	the test mass shall be arrested. The anchor must then hold an	Peak arrest force: 8.9kN (see figure 5) Attachment point deformed slightly	± 40 mm See note 2	PASS
	MART	increased mass of 300kg for 3 minutes	Residual strength: 300kg sustained for 3 minutes without failure	CH S	RON
	4.4.1.3 Specific requirements – Type A anchor	Metallic elements shall sustain a force of at least 12 kN for 3	12kN sustained for 3 minutes without failure	017 11	2017
	static strength test	minutes without release, and non-metallic elements shall sustain a	Force then increased to 15kN without failure	± 50 N See note 2	PASS
1	H 20 ARCH	force of at least 18kN for 3 minutes without release	See note 3	1201	CH 2

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Table 2 – Testing of anchor device described as "BIBO" (installed on bitumen by heating pads of sample and pressing into roof surface) in accordance with CEN/TS 16415: 2013≠ as a type A device

	CEN/TS 16415: 2013≠ CLAUSE / TEST	CEN/TS 16415: 2013≠ REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
	4.2.1.1 Specific requirements – Type A anchor dynamic strength & integrity test	When tested dynamically with a rigid steel mass of 200 kg (2 users), the test mass shall be arrested. A further dynamic test	200kg mass held following 1.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 11.0kN (see figure 6) Attachment point deformed slightly		
		shall be carried out on the same system in accordance with EN 795: 2012, for each additional user claimed. The tests masses, or an equivalent force shall be applied to the line to simulate the number of users already fallen. The	Test mass removed from anchor and replaced with static load of 200kg to simulate 2 users still hanging on device. Further drop carried out for 3 rd user falling 100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 9.3kN (see figure 7)	± 40 mm See note 2	PASS
X	120. RCH	anchor must then hold an increased mass of 600kg (2 users) + 150kg for each additional user for 3 minutes	Attachment point deformed slightly Residual strength: 750kg sustained for 3 minutes without failure	"	~+ 2 ⁰
D'A A	4.2.1.2 Specific requirements – Type A anchor static strength test	Metallic elements shall sustain a force of at least 12 kN + 1kN for each additional user claimed, for 3 minutes without release, and non-metallic elements shall sustain a force of at least 18kN + 1kN for each additional user claimed, for 3 minutes without release	12kN sustained for 3 minutes without failure Force then increased to 15kN without failure See note 3	± 50 N See note 2	PASS

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Table 3 – Testing of anchor device described as "BIBO" (installed on PVC using adhesive) in accordance with EN 795: 2012 as a type A device

EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.4.1.2 Specific requirements – Type A 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	100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 8.6kN (see figure 8) Attachment point deformed slightly Residual strength: 300kg sustained for 3	± 40 mm See note 2	PASS
	300kg for 3 minutes	minutes without failure		
4.4.1.3 Specific requirements – Type A 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	12kN sustained for 3 minutes without failure Force then increased to 15kN without failure See note 3	± 50 N See note 2	PASS

Table 4 – Testing of anchor device described as "BIBO" (installed on bitumen by heating pads of sample and pressing into roof surface) in accordance with CEN/TS 16415: 2013≠ as a type A device

CEN/TS 16415: 2013≠ CLAUSE / TEST	CEN/TS 16415: 2013≠ REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.2.1.1 Specific requirements – Type A anchor dynamic strength &	When tested dynamically with a rigid steel mass of 200 kg (2 users), the test mass	200kg mass held following 1.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 11.0kN (see figure 9)	2042	ARC
integrity test	shall be arrested. A further dynamic test	Attachment point deformed slightly	11	
	shall be carried out on the same system in accordance with EN 795: 2012, for each	Test mass removed from anchor and replaced with static load of 200kg to simulate 2 users still hanging on device. Further drop carried out for 3 rd user	± 40 mm	
	additional user claimed. The tests masses, or an	falling	See note	PASS
	equivalent force shall be applied to the line to simulate the number of	100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard	CH N	
	users already fallen. The anchor must then hold an increased mass of	Peak arrest force: 8.6kN (see figure 10) Attachment point deformed slightly	011	
Nº 2017 Nº	600kg (2 users) + 150kg for each additional user for 3 minutes	Residual strength: 750kg sustained for 3 minutes without failure	NARO.	MAR

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CEN/TS 16415: 2013≠ CLAUSE / TEST	CEN/TS 16415: 2013≠ REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.2.1.2 Specific requirements – Type A anchor static strength test	Metallic elements shall sustain a force of at least 12 kN + 1kN for each additional user claimed, for 3 minutes without release, and non-metallic elements shall sustain a force of at least 18kN + 1kN for each additional user claimed, for 3 minutes without release	12kN sustained for 3 minutes without failure Force then increased to 15kN without failure See note 3	± 50 N See note 2	PASS

Table 5 – Testing of anchor device described as "BIBO" (installed on 1 AU using adhesive) in accordance with EN 795: 2012 as a type A device

EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.4.1.2 Specific requirements – Type A anchor dynamic strength & integrity test	arrested. The anchor must then hold an	100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 8.7kN (see figure 11) Attachment point deformed slightly	± 40 mm See note 2	PASS
NT W. OTI	increased mass of 300kg for 3 minutes	Residual strength: 300kg sustained for 3 minutes without failure	MAT	N
4.4.1.3 Specific requirements – Type A anchor	Metallic elements shall sustain a force of at least 12 kN for 3	12kN sustained for 3 minutes without failure	1 22	011 CX
static strength test	minutes without release, and non-metallic elements shall sustain a	Force then increased to 15kN without failure	± 50 N See note 2	PASS
MARCI	force of at least 18kN for 3 minutes without release	See note 3	20,20	X 2 A

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Table 6 – Testing of anchor device described as "BIBO" (installed on 1 AU using adhesive) in accordance with CEN/TS 16415: 2013≠ as a type A device

	CEN/TS 16415: 2013≠ CLAUSE / TEST	CEN/TS 16415: 2013≠ REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
	4.2.1.1 Specific requirements – Type A anchor dynamic strength & integrity test	When tested dynamically with a rigid steel mass of 200 kg (2 users), the test mass shall be arrested. A further dynamic test	200kg mass held following 1.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 11.5kN (see figure 12) Attachment point deformed slightly		
		shall be carried out on the same system in accordance with EN 795: 2012, for each additional user claimed. The tests masses, or an equivalent force shall be applied to the line to simulate the number of users already fallen. The	Test mass removed from anchor and replaced with static load of 200kg to simulate 2 users still hanging on device. Further drop carried out for 3 rd user falling 100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard	± 40 mm See note 2	PASS
	+ 20. RCH	anchor must then hold an increased mass of 600kg (2 users) + 150kg for each additional user for 3 minutes	Peak arrest force: 8.3kN (see figure 13) Attachment point deformed slightly Residual strength: 750kg sustained for 3 minutes without failure	"	~ 20
D P X 1	4.2.1.2 Specific requirements – Type A anchor static strength test	Metallic elements shall sustain a force of at least 12 kN + 1kN for each additional user claimed, for 3 minutes without release, and non-metallic elements shall sustain a force of at least 18kN + 1kN for each additional user claimed, for 3 minutes without release	12kN sustained for 3 minutes without failure Force then increased to 15kN without failure See note 3	± 50 N See note 2	PASS

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Table 7 – Testing of anchor device described as "BIBO" (installed on 2 BE using adhesive) in accordance with EN 795: 2012 as a type A device

EN 795: 2012 CLAUSE / TEST	EN 795: 2012 REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.4.1.2 Specific requirements – Type A 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	100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard Peak arrest force: 8.7kN (see figure 14) Attachment point deformed slightly Residual strength: 300kg sustained for 3	± 40 mm See note 2	PASS
	300kg for 3 minutes	minutes without failure		
4.4.1.3 Specific requirements – Type A 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	12kN sustained for 3 minutes without failure Force then increased to 15kN without failure See note 3	± 50 N See note 2	PASS

Table 8 – Testing of anchor device described as "BIBO" (installed on 2 BE using adhesive) in accordance with CEN/TS 16415: 2013≠ as a type A device

CEN/TS 16415: 2013≠ CLAUSE / TEST	CEN/TS 16415: 2013≠ REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.2.1.1 Specific requirements – Type A anchor	When tested dynamically with a rigid steel mass of 200 kg (2	200kg mass held following 1.6m free fall using 2m EN 892 reference lanyard	1 12	311
dynamic strength & integrity test	users), the test mass shall be arrested. A further dynamic test shall be carried out on	Peak arrest force: 11.4kN (see figure 15) Attachment point deformed slightly	2011 V	
	the same system in accordance with EN 795: 2012, for each additional user claimed.	Test mass removed from anchor and replaced with static load of 200kg to simulate 2 users still hanging on device. Further drop carried out for 3 rd user	± 40 mm See note	PASS
	The tests masses, or an equivalent force shall be	falling	2	
	applied to the line to simulate the number of users already fallen. The	100kg mass held following 3.6m free fall using 2m EN 892 reference lanyard	17 11	
	anchor must then hold an increased mass of 600kg (2 users) + 150kg	Peak arrest force: 7.8kN (see figure 16) Attachment point deformed slightly	RCH	
201 CX	for each additional user for 3 minutes	Residual strength: 750kg sustained for 3 minutes without failure	MAY ON	Nu

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CEN/TS 16415: 2013≠ CLAUSE / TEST	CEN/TS 16415: 2013≠ REQUIREMENT	RESULT / COMMENT	UoM (See note 1)	PASS / FAIL
4.2.1.2 Specific	Metallic elements shall	12kN sustained for 3 minutes without		
requirements – Type A anchor static strength test	sustain a force of at least 12 kN + 1kN for each additional user claimed, for 3 minutes without release, and non-metallic elements shall sustain a force of at least 18kN + 1kN for each additional user claimed, for 3 minutes without release	failure Force then increased to 15kN without failure See note 3	± 50 N See note 2	PASS

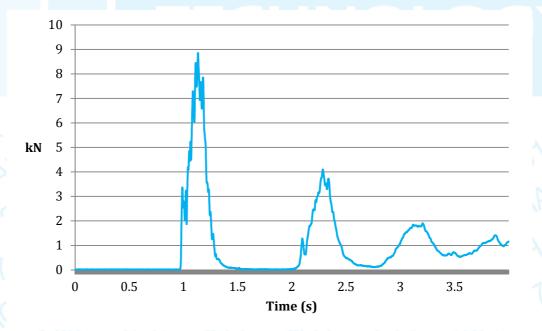


Figure 5 – Dynamic performance test: Graph of force vs. time

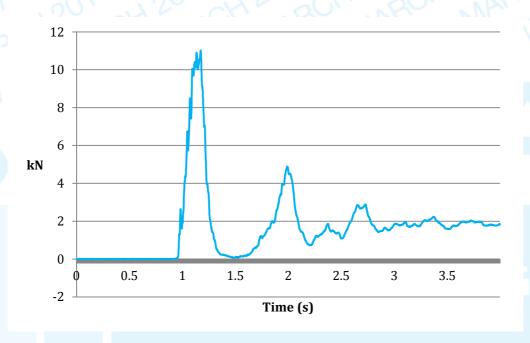
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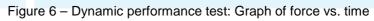
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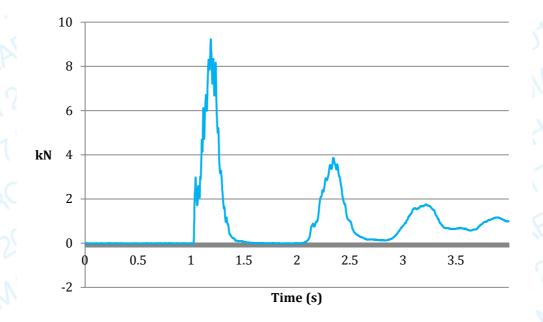
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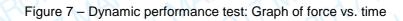
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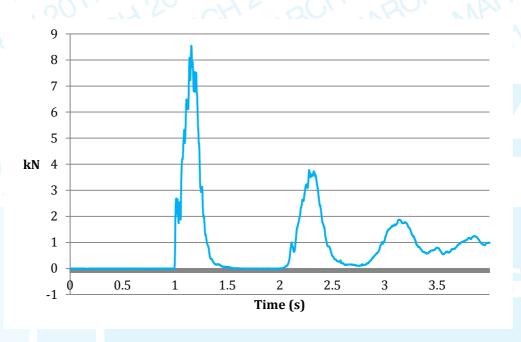
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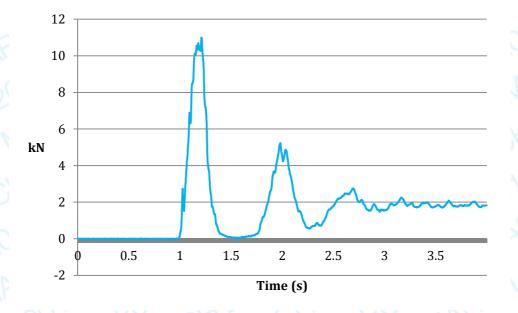


Figure 9 – Dynamic performance test: Graph of force vs. time

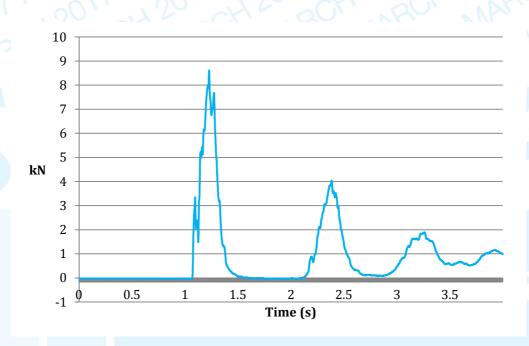
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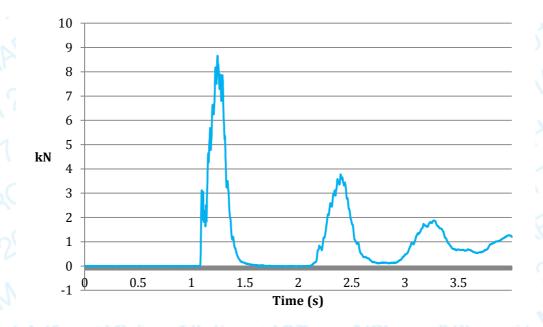
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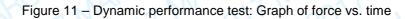
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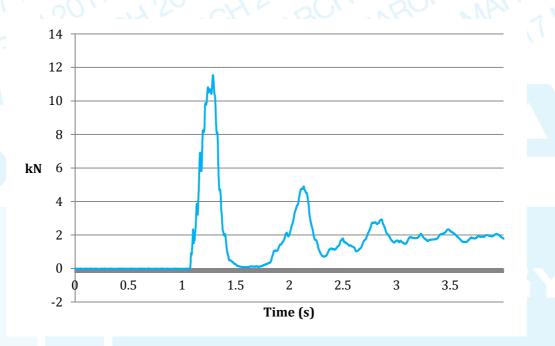


Figure 12 – Dynamic performance test: Graph of force vs. time

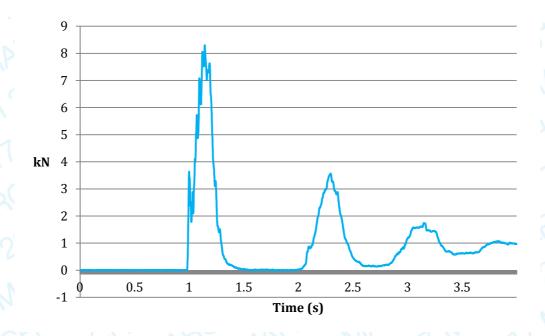


Figure 13 – Dynamic performance test: Graph of force vs. time

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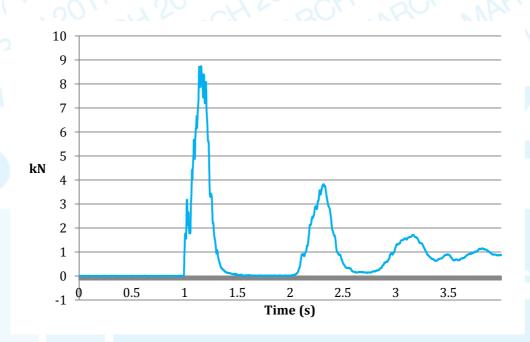
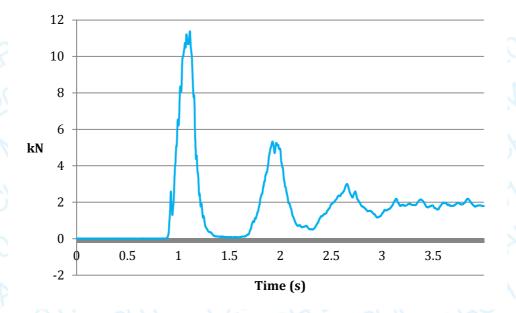
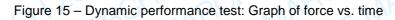


Figure 14 – Dynamic performance test: Graph of force vs. time





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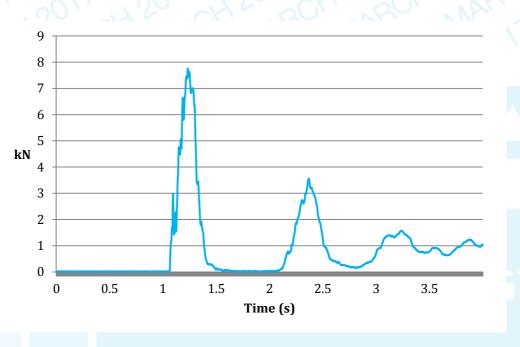


Figure 16 – Dynamic performance test: Graph of force vs. time

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 – 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)

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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 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.

3. 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:

- The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
- 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.
 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.

. 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.

Issue Date: 1st October 2009

Harrison

Zoontjens Beton BV
SATRA Reference:
Date:

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