



Unit 53, Trevallyn Park, cnr River Road & Hyskraan Close,  
Kya Sand, Randburg, 2169  
PO Box 77110, Fontainebleau, 2132  
Tel: +27 11 708 6141 / Fax: +27 11 708 6144  
Email: infosales@cte-labsupplies.co.za

Western, Northern & Eastern Cape:  
Tel: 044 – 620 5145 / Fax: 086 684 0616

Reg. 98/027324/23  
Vat Reg. No: 4090177686

## CALIBRATION CERTIFICATE

**CERTIFICATE NO: 9432**

**Description of Device Under Test** : **CUBE PRESS - MANUAL**  
**Manufacturer** : **CONCRETE TESTING EQUIPMENT**  
**Serial Numbers - Frame** : **CTE 54-1016 MCP**

**Capacity** : **60 MPA**  
**Range of calibration** : **0 – 60 MPA**  
**Resolution of UUT Force indicator** : **0.2 MPA**

**Location of calibration** : **CTE WORKSHOP  
KYA SAND**

**Temperature (Start / Finish)** : **25°C / 25°C**  
**Limitation or Environmental Conditions** : **None**

**Calibrated for** : **UBUNTHU MIX  
JEFFREYSBAY**

**Calibration Date** : **10 OCTOBER 2016**  
**Calibration Expiry Date** : **09 OCTOBER 2017**

**Reference force testing equipment - Loadcell** : **19771**  
**- Readout** : **HCF 1**  
**Calibration traceable to SABS - Date** : **31 July 2012**  
**NMISA calibration certificate number** : **2020.5569-5**  
**Calibration procedure** : **869-WI-001**

**Method of Calibration with reference to** : **BS EN ISO 7500-1:2004**

The Device Under Test (DUT) was measured in terms of standards whose accuracies are traceable to the National Standard of Force maintained by NMISA. A copy of our calibration equipment's chart is available on request for traceability to a National Source. Triplicate sets of readings were taken to determine the repeatability of registration of the machine under test after being loaded three times to capacity prior to calibration. Digital readout units are considered as a single range device for the purpose of calibrating error and repeatability.

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**RESULTS:**

INDICATED FORCE IN MPA	TRUE FORCE IN Kn				FACTOR	FACTOR	FACTOR	FACTOR
	RUN 1	RUN 2	RUN 3	AVERAGE				
0	0	0	0	0.00	0.00	0.00	0.00	0.00
10	299.60	300.10	300.40	300.03	3.00	1.33	1.19	1.50
20	601.60	600.20	600.40	600.73	3.00	1.33	1.19	1.50
30	901.20	901.00	901.20	901.13	3.00	1.34	1.19	1.50
40	1200.20	1201.40	1200.20	1200.60	3.00	1.33	1.19	1.50
50	1500.20	1501.60	1500.40	1500.73	3.00	1.33	1.19	1.50
60	1802.40	1801.60	1802.00	1802.00	3.00	1.33	1.19	1.50
<b>FACTOR:</b>					<b>3.00</b>	<b>1.33</b>	<b>1.19</b>	<b>1.50</b>

**Note:** To obtain True MPA = Gauge Reading x Factor

This certificate is issued under the conditions of Concrete Testing Equipment and may not be reproduced, except in full with prior written approval. This calibration certificate automatically expires if a gauge or transducer or instrument is repaired or if changes are made to sealed adjustments.

*NB: While every care is taken to ensure that the calibration certificate is accurate in figures and statistics quoted and in the conclusions drawn from the results of the test, Concrete Testing Equipment shall not be liable in anyway whatsoever for any errors caused through calibration, transportation or mishandling.*

**Calibrated by:**

**Head of Laboratory:**



**CL DU PLESSIS**

**MJ GRASSMAN**