



FORCE METROLOGY LABORATORY

SANAS Accreditation Laboratory No. 801
Certification of Calibration

No. WFS 46

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NB: A statement likely to create the impression that the calibrated equipment has been otherwise approved by the SABS or that it complies with any of its specifications constitutes a punishable offence in terms of Section 21(1) of the Standards Act, 1993.

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Calibration of	: Universal testing machine
Manufacturer	: Schenck
Serial No	: POZ 0842
Max capacity	: 630 kN
Location	: On site at University of Pretoria
Calibrated for	: Business Enterprises PO Box 14679 HATFIELD 0028
Calibration procedure	: 801 - WI - 008
Traceability	: The calibration was performed using equipment which is traceable to national standards
Date of calibration	: 2003-02-10
Date of issue	: 2003-03-11
Calibrated by	: J D Jacobs 
Approved by	: J D Jacobs 

STATEMENT

SANAS is a signatory to the Multilateral Agreement of the European co-operation for Accreditation and to the Mutual Recognition Agreements with the Republic of China (CNLA), Australia (NATA) and New Zealand (IANZ) for the mutual recognition of equivalence of calibration and test certificates.

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This calibration was performed by Testing and Conformity Services (Pty) Ltd, an affiliate of the SABS.
NOTE: The values in this certificate are correct at the time of calibration. Subsequently the accuracy will depend on such factors as the care exercised in handling and use of the instrument and the frequency of use. Recalibration should be performed after a period which has been chosen to ensure that the instrument's accuracy remains within the desired limits.

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EQUIPMENT USED : load cell, s/n H 13450 & 18595
: indicator, s/n 24027

RESULTS

Compression

Indicated force V	Nominal force kN	True force kN (measurements corrected for equipment used)				Error of corrected average on indicated force	
		Test 1	Test 2	Test 3	Average	kN	%
1	63	62,936	62,946	63,105	62,996	- 0,004	< 0,1
2	126	125,697	125,738	125,667	125,701	- 0,299	0,2
3	189	188,357	188,388	188,458	188,401	- 0,599	0,3
4	252	251,198	251,177	251,213	251,196	- 0,804	0,3
5	315	314,076	313,989	313,691	313,919	- 1,081	0,3
6	378	376,771	376,790	376,662	376,741	- 1,259	0,3
7	441	439,507	439,450	439,318	439,425	1,575	0,4
8	504	502,231	502,290	502,244	502,255	- 1,745	0,3
9	567	564,398	564,658	564,231	564,429	- 2,571	0,5
9,8	617,4	627,597	627,489	627,239	627,442	+ 10,042	1,6

Note : correction must be added to machine indicated reading

UNCERTAINTY OF MEASUREMENT

The reported uncertainty of measurement of $\pm 1,5$ % full range is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, which, unless specifically stated otherwise, provides a level of confidence of approximately 95 %.

TEMPERATURE

22° C

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