

CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

CAPE METROLOGY FIELD SERVICES CC

Co. Reg. No.: 1998/041535/23

FORCE CALIBRATION LABORATORY

Accreditation Number: **842**

is a South African National Accreditation System Accredited Calibration Laboratory
provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation
Annexure "A", bearing the above accreditation number for

FORCE METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a
laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the
relevant SANAS accreditation symbol to issue facility reports and/or certificates

Ms FS Radebe
Acting Chief Executive Officer

Effective Date: 16 January 2023
Certificate Expires: 15 January 2028

ANNEXURE A

SCOPE OF ACCREDITATION

FORCE METROLOGY

Accreditation Number: 842

Permanent Address of Laboratory: Cape Metrology Field Services CC Force Calibration Laboratory Unit 5, ADF Centre Saxenburg Park 2 Blackheath 7580		Technical Signatory: Mr P Barber		
Postal Address: P O Box 5169 Helderberg 7135 Tel: (021) 904-9811 Cell: 082 333-7373 E-mail: nadia@capemet.co.za		Nominated Representative: Ms N de Lange Issue No: 08 Date of Issue: 22 August 2023 Expiry Date: 15 January 2028		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	METHOD / PROCEDURE
4.0	FORCE			
4.2	Compression			
4.2.5	Fruit Penetrometer (Fruit Firmness Tester)	1 kg to 20 kg	0,32 kg	Calibration through the application of a constant force against a load cell or scale.
5.0	TORQUE			
5.2	Torque Generating Devices			
5.2.1	Torque Wrenches	2 N•m to 1 500 N•m	$4 \cdot 10^{-2} \cdot T$	Calibration in torque rig against a standard torque load cell.
5.2.5	Hydraulic Torque Tools	250 N•m to 20 000 N•m	4,0 %	Calibration by comparison with a reference torque transducer.
6	On site calibration for all items above			

Original Date of Accreditation: 15 January 2013

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager