



CERTIFICATE OF ACCREDITATION

This is to certify that:

MATROLAB GROUP (PTY) LTD

Facility Accreditation Number: **T0025**

is a South African National Accreditation System accredited Testing laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope on the accompanying schedule of accreditation bearing the above accreditation number for

CIVIL ENGINEERING TESTING

The facility complies with the general requirements of

ISO/IEC 17025:2005

This accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system and shall remain in force subject to continuing compliance with SANAS accreditation criteria, ISO/IEC 17025:2005 and any further requirements specified by SANAS

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

Mr MA Peet

Chief Executive Officer

Initial Accreditation: August 1992

Certificate Commences: March 2008

Certificate Expires: January 2013

"Recognised as the official national accreditation body by the Department of Trade and Industry of the Republic of South Africa"

This certificate is only valid when accompanied by its schedule of accreditation.

SCHEDULE OF ACCREDITATION

Testing Laboratory Number: T0025

<p><u>Permanent Address of Laboratory:</u> Matrolab Group (Pty) Ltd 256 Brander Street Jan Niemandpark Silverton 0127</p> <p><u>Postal Address:</u> P O Box 912-387 Silverton 0127</p> <p>Tel : (012) 800-1281/2 Fax : (012) 800-8043 E-mail : bennievn@matrolab.co.za</p>	<p><u>Technical Signatories</u> : Mr BJ van Niekerk : Mr S Dewnath : Ms SE Breiting</p> <p><u>Nominated Representative</u> : Mr BJ van Niekerk</p> <p>Issue No. : 11 Date of issue : March 2008 Expiry date : January 2013</p>
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Materials/Products Tested	Types of Tests/Properties Measured, Range of Measurement	Standard Specifications, Equipment/Techniques Used
SOIL, AGGREGATES, CONCRETE AND ASPHALT	The wet preparation and sieve analysis of gravel, sand and soil samples	TMH 1 Method A1 (a)
	The determination of the liquid limit of soils by means of flow curve method	TMH 1 Method A2
	The determination of the plastic limit and plasticity index of soils	TMH 1 Method A3
	The determination of the linear shrinkage of soils	TMH1 Method A4
	The determination of the percentage of material passing a 0,075 mm sieve in a soil sample	TMH 1 Method A5
	The determination of the maximum dry density and optimum moisture content of gravel, soil and sand	THM 1 Method A7
	The determination of California Bearing Ratio of untreated soils and gravels	TMH 1 Method A8
	The determination of the California Bearing Ratio of lime-stabilized soils and gravels	TMH 1 Method A9
	The determination of the in-place dry density and moisture content of soils and gravels by nuclear methods	TMH 1 Method A10 (b)
	The determination of the unconfined compressive strength of stabilized soils, gravels and sands	TMH 1 Method A14 including (Appendix to Method A14 and TMH1 Method A13T)
Tentative method for the determination of the indirect tensile strength of stabilized materials	TMH1 Method A16T	
The determination of the moisture content of soils	TMH1 Method A17	



Field Manager

Materials/Products Tested	Types of Tests/Properties Measured, Range of Measurement	Standard Specifications, Equipment/Techniques Used
SOIL, AGGREGATES, CONCRETE AND ASPHALT(Continue)	The determination of the aggregate crushing value	TMH1 Method B1
	The determination of the 10 percent fines aggregate value	TMH1 Method B2
	The determination of the Flakiness Index of a coarse aggregate	TMH! Method B3
	The sieve analysis of aggregates, including the determination of the material passing the 0,425 and 0,075mm sieves	TMH 1 Method B4
	The determination of the bulk density of coarse and fine aggregate	TMH1 Method B9
	The determination of the dry bulk density, apparent relative density and water absorption of aggregate retained on a 4,75mm sieve	TMH1 Method B14
	The determination of the dry bulk density, apparent relative density and water absorption of aggregate passing the 4,75mm sieve	TMH1 Method B15
	The determination of the average least dimension of aggregate by direct measurement	TMH1 Method B18(a)
	The determination of the resistance to flow a cylindrical briquette of a bituminous mixture by means of the Marshall apparatus	TMH1 Method C2 (Including Appendix to TMH1 C2)
	The determination of the bulk relative density of a compacted bituminous mixture and the calculation of the voids content	TMH 1 Method C3
	The determination of: a) The maximum theoretical relative density of asphalt mixes (Rice's method) b) The quantity of bituminous binder absorbed by the Aggregate	TMH 1 Method C4
	The determination of the binder content of a bituminous mixture (Indirect method)	TMH 1 Method C7
The making, curing and compressive strength determination of concrete test cubes	TMH1 Method D1 & SABS 863 (Including SABS method 861 p2 & p3)	
The determination of the slump of freshly mixed concrete	TMH1 Method D3 & SABS 862-1	




Field Manager

Materials/Products Tested	Types of Tests/Properties Measured, Range of Measurement	Standard Specifications, Equipment/Techniques Used
SPECIAL METHODS FOR TESTING ROADS	Measurement of the texture depth of a road surface The ball penetration test for surface treatment design Measurement of the in-situ strength of soils by the Dynamic Cone Penetrometer (DCP)	TMH6 Method ST1 TMH6 Method ST4 TMH6 Method ST6

Original date of accreditation: August 1992

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Field Manager