



## 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:-*

### **ROADLAB LABORATORIES (PTY) LTD**

**Co. Reg. No.: 2011/005423/07**

**GERMISTON**

Facility Accreditation Number: **T0296**

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

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

### **CIVIL ENGINEERING TESTING**

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 quality management system

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

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**Mr M Phaloane**

**Acting Chief Executive Officer**

**Effective Date: 01 November 2020**

**Certificate Expires: 31 October 2025**



**ANNEXURE A**  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0296**

**Permanent Address of Laboratory:**

Roadlab Laboratories (Pty) Ltd  
207 Rietfontein Road  
Primrose  
Germiston  
1401

**Technical Signatories:**

Mr D Beekhuizen (All methods)  
Mr J Fourie (Soils, Asphalt, Concrete)  
Mr W Potgieter (Soils, Asphalt, Concrete, Aggregates)  
Mr J Roopall (Concrete, Soils, Aggregates)  
Mr G Jacobs (All Methods)  
Mr C Jordaan (Soils, Aggregates)  
Mr L Chuene (Soils, Concrete, Aggregates)  
Mr S Mahlangu (Soils, Concrete)  
Mr D Juckers (All methods)  
Mr K Koster (Concrete, Soils)  
Mr R Theart (Asphalt, Soils)  
Mr NW Herbst (Soils)  
Mr D Klaver (Asphalt)  
Mr WAL du Toit (All methods)

**Postal Address:**

PO Box 1476  
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**Nominated Representative:**

Mr J Botha

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**Issue No.:** 18  
**Date of Issue:** 01 November 2020  
**Expiry Date:** 31 October 2025

Material or Products Tested	Type of Tests/ Property measured, Range of measurement	Standard Specifications, Techniques / Equipment Used
Soils, Gravel, Sand	Wet preparation and particle size analysis	SANS 3001 GR1 : 2013
	Dry preparation and dry particle size analysis of gravels and sands	SANS 3001 GR2 : 2011
	Determination of the one-point liquid limit, plastic limit, plasticity index and linear shrinkage	SANS 3001 GR10 : 2013
	Determination of the liquid limit with the two-point method	SANS 3001 GR11 : 2013
	Determination of the flow curve liquid limit	SANS 3001 GR12 : 2013
	Determination of the moisture content by oven-drying	SANS 3001 GR20 : 2010
	Determination of the maximum dry density and optimum moisture content	SANS 3001 GR30 : 2015

Determination of the maximum dry density and optimum moisture content of laboratory mixed cementitiously stabilized materials	SANS 3001 GR31 : 2015
Determination of the California bearing ratio	SANS 3001 GR40 : 2013
Determination of the California bearing ratio of lime treated materials	SANS 3001 GR41 : 2014
Preparation, compaction and curing of specimens of laboratory mixed cementitiously stabilized materials	SANS 3001 GR50 : 2013
Sampling, preparation, compaction and curing of field mixed freshly cementitiously stabilized materials including the determination of the maximum dry density and optimum moisture content	SANS 3001 GR51 : 2015
Sampling and preparation of cored specimens of field compacted, matured, cementitiously stabilised material	SANS 3001 GR52 : 2010
Determination of the unconfined compressive strength of compacted and cured specimens of cementitiously stabilized materials	SANS 3001 GR53 : 2010
Determination of the indirect tensile strength of compacted and cured specimens of cementitiously stabilized materials	SANS 3001 GR54 : 2014
Determination of the wet-dry durability of compacted and cured specimens of cementitiously stabilized materials by hand brushing	SANS 3001 GR55 : 2012
Determination of the wet-dry durability of compacted and cured specimens of cementitiously stabilized materials by hand brushing	SANS 3001 GR56 : 2015
Determination of the initial stabilizer consumption of soils and gravels	SANS 3001 GR57 : 2014
Determination of the cement or lime content of stabilized materials by means of the back-titration (acid base) method	SANS 3001 GR58 : 2014
Determination of insitu density using a nuclear density gauge	SANS 3001-NG5 : 2014



Aggregate	Computation of soil-mortar percentages, coarse sand ratio, grading modulus and fineness modulus	SANS 3001-PR5 : 2011
	Particle size analysis of aggregates by sieving	SANS 3001 AG1 : 2014
	Determination of the average least dimension of aggregates by direct measurement	SANS 3001 AG2 : 2009
	Determination of the average least dimension of aggregates by computation	SANS 3001 AG3 : 2014
	Determination of the flakiness index of coarse aggregate	SANS 3001 AG4 : 2015
	Sand equivalent value of line aggregates	SANS 3001 AG5: 2015
	ACV (aggregate crushing value) and 10 % FACT (fines aggregate crushing test) values of coarse aggregates	SANS 3001 AG10 : 2012
	Tests for mechanical and physical properties of aggregates — Determination of the polished stone value	SANS 3001 AG11
	Determination of rock durability using 10 % FACT (fines aggregate crushing test) values after soaking in ethylene glycol	SANS 3001 AG15 : 2012
	Determination of the bulk density, apparent density and water absorption of aggregate particles retained on the 5 mm sieve for road construction materials	SANS 3001 AG20 : 2014
	Determination of the bulk density, apparent density and water absorption of aggregate particles passing the 5 mm sieve for road construction materials	SANS 3001 AG21 : 2014
Concrete	Apparent density of crushed stone base	SANS 3001 AG22 : 2012
	Particle and relative densities of aggregates	SANS 3001 AG23 : 2014
	Mixing Fresh concrete in the laboratory	SANS 5861-1:2006
	Sampling of freshly mixed concrete	SANS 5861-2:2006
	Making and curing of test specimens	SANS 5861-3:2006
	Consistence of freshly mixed concrete (Slump test)	SANS 5862-1:2006
	Compressive strength of hardened Concrete	SANS 5863:2006

	Flexural Strength of hardened concrete	SANS 5864:2006
	The drilling, preparation, and testing for compressive strength of cores taken from hardened concrete	SANS 5865:1994
	Tensile Splitting	SANS 1058 : 2006
	Burnt clay masonry units	SANS 227 : 2006
Chemical	Chloride Content of aggregates	SANS 202 : 2006
	Particle size analysis of material smaller than 2 mm (hydrometer method)	SANS 3001 GR3 : 2014
	Wet preparation and air-drying of samples for plasticity index and hydrometer tests	SANS 3001 GR5 : 2012
	Organic impurities in fine aggregates (Limit test)	SANS 5832 : 2006
	Detection of sugar in fine aggregates	SANS 5833 : 2006
	Soluble deleterious impurities in fine aggregates (Limit test)	SANS 5834 : 2006
	Deleterious clay content of the fines in aggregate (Methylene blue absorption indicator test)	SANS 6243 : 2008
	Total water-soluble salts content of fines in aggregation	SANS 5849 : 2008
Asphalt	Making of asphalt briquettes for Marshall tests and other specialized tests	SANS 3001 AS1 : 2015
	Determination of Marshall stability, flow and quotient	SANS 3001 AS2 : 2011
	Determination of bulk density and void content of compacted asphalt	SANS 3001 AS10 : 2011
	Determination of the maximum void-less density of asphalt mixes and the quantity of binder absorbed by the aggregate	SANS 3001 AS11 : 2011
	Determination of the soluble binder content and particle size analysis of an asphalt mix	SANS 3001 AS20 : 2011
	Determination of the bitumen content of an asphalt mix by ignition	SANS 3001 AS21 : 2014
	Determination of the binder content of mixtures used in bituminous slurry seals	SANS 3001 AS22 : 2014
	Determination of moisture in asphalt	SANS 3001 AS23 : 2014

	Determination of the Ethylene Glycol Durability index for rock	ASTM D2983
	Preparation and Determination of the Relative Density of Hot Mix Asphalt (HMA) Specimens by Means of the Super pave Gyrotory Compactor	ASTM D6925-15
Bitumen	Sampling of modified binders	TG1 MB1
	Sample preparation	TG1 MB2
	Ball penetration and resilience of bitumen-rubber blends	TG1 MB10
	Compression recovery of bitumen rubber binders	TG1 MB11
	Flow test for bitumen-rubber binders	TG1 MB12
	Dynamic viscosity of bitumen-rubber binders	TG1 MB13
	Ball penetration test for the design of surfacing seals	SANS 3001 BT10 : 2013
	Texture depth measurement for the design of surfacing seals	SANS 3001 BT11 : 2012
	Determination of the insitu permeability of a bituminous surfacing (Marvil Test)	SANS 3001 BT12 : 2012
	Certification of a binder distribution	SANS 3001 BT20 :2016
	Validation of a binder distributor dipstick	SANS 3001 BT21 : 2015
	Power and road speed indicator tests for a binder distributor	SANS 3001 BT22 : 2016
	Pump system performance of a binder distributor	SANS 3001 BT23 : 2015
	Measurement of transverse distribution (Bucket test) for a binder distributor	SANS 3001 BT24 : 2015
	Penetration of bituminous materials	ASTM D5
	Softening point of bitumen (Ring and Ball apparatus)	ASTM D36
	Water Content (Binder Content)	ASTM D244
Sampling	Sampling from a sampling pit in natural gravel, soil and sand	TMH5 MA2
	Sampling from Stockpiles	TMH5 MB1
	Sampling of Bituminous Binders	TMH5 MB4
	Sampling of Premixed Asphalt	TMH5 MB7
	Sampling of Slurry Mixes	TMH5 MB8

Sampling of freshly mixed concrete	TMH5 MB9
Sampling of treatment pavement layers to determine content and distribution of the Stabilizer	TMH5 MB10
Sampling of road pavement layers	TMH5 MC1
Sampling of asphalt and concrete from a completed layer or structure	TMH5 MC2
Division of a sample using the riffler	TMH5 MD1
Division of a sample by quartering	TMH5 MD2
Determination of in-place dry density (sand replacement)	SANS 3001 GR35
Texture Depth of a road surface by means of the sand patch method	TMH 6 ST1
Ball penetration test	TMH 6 ST4
Measurement of the in-situ strength of soils by the dynamic cone penetrometer (DCP)	TMH6 ST6
Non- repetitive static plate load test of soils and flexible pavement components	Modified AASHTO T222-78
LCS Drainometer water permeability test	SABITA Manual 17

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Original Date of Accreditation: 01 November 2005

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



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**Accreditation Manager**