



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:-

EARTHINV LAB AND GEOTECHNICAL CONSULTING (PTY) LTD

Co. Reg. No.: 2015/029662/07

Facility Accreditation Number: T0745

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

Mr T Baleni
Acting Chief Executive Officer

Effective Date: 07 December 2021
Certificate Expires: 06 December 2026



ANNEXURE A
SCHEDULE OF ACCREDITATION

Facility Number: **T0745**

Permanent Address of Laboratory:

Earthinv Lab and Geotechnical Consulting (Pty) Ltd
Plot 209 Tienie Street
Adeon A/H
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Technical Signatories:

Mr BH Modisane (All methods exl Binders)
Mr D Nkoane (All methods exl Binders)
Mr KF Langa (Aggregates, Concrete, Soils)
Mr S Khoza (Asphalt, Bitumen,
SANS 3001-GR52,55,57,
SANS 3001-AG3,AG5, SABS 865)

Nominated Representative:

Mr BH Modisane

Issue No.: 06

Date of Issue: 07 March 2022

Expiry Date: 06 December 2026

Material or Products Tested	Type of Tests/ Property measured, Range of measurement	Standard Specifications, Techniques / Equipment Used
SOILS, GRAVEL AND SAND		
	Wet preparation and Particle size analysis	SANS 3001 GR1: 2011
	Dry preparation & dry particle size analysis of gravels and sand	SANS 3001 GR2: 2013
	Wet preparation & air-drying of samples for plasticity index & hydrometer tests	SANS 3001 GR5: 2012
	Determination of one point liquid limit, plasticity index and linear shrinkage	SANS 3001 GR10: 2013
	Determination of the liquid limit with two point method	SANS 3001 GR11: 2013
	Determination of the flow curve liquid limit	SANS 3001 GR12: 2013
	Determination of moisture content by oven-drying	SANS 3001 GR20: 2010
	Determination of the maximum dry density and optimum moisture content	SANS 3001 GR30 : 2015

SAMPLING

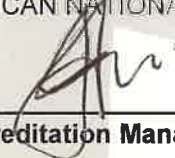
Determination of the maximum dry density and optimum moisture content of laboratory mixed cementitious stabilized materials	SANS 3001 GR31 : 2013
Determination of the California bearing ratio	SANS 3001 GR40: 2013
Preparation, compaction & curing of specimens of laboratory mixed cementitious stabilized materials	SANS 3001 GR50: 2013
Sampling, preparation, compaction & curing of field mixed freshly cementitious stabilized materials incl. max dry density & opt MC	SANS 3001 GR51: 2013
Sampling and preparation of cored specimens of field compacted, matured, cementiously stabilised material	SANS 3001 GR52: 2010
Determination of the UCS of compacted and cured specimens of cementitious stabilised materials	SANS 3001 GR53: 2010
Determination of the ITS of compacted and cured specimens of cementitious stabilized materials	SANS 3001 GR54: 2010
Determination of the UCS of compacted and cured specimens of field compacted, matured, cementitious stabilized materials by hand brushing	SANS 3001 GR55: 2012
Determination of the initial stabilizer consumption of soils and gravels	SANS 3001 GR57: 2014
Determination of Insitu density using a nuclear gauge	SANS 3001 NG5: 2014
Sampling from a sampling pit in natural gravel, soil and sand	TMH 5 MA 2: 1981
Sampling of a stockpile	TMH 5 MB1: 1981
Sampling of bituminous binders	TMH5-MB4:2021
Sampling of previously blended asphalt	TMH5-MB7:2021
Sampling of slurry mixtures	TMH5-MB8:1981
Sampling of freshly mixed concrete	SANS 5861-2 TMH 5 MB9: 1981
Sampling of a treated pavement layers	TMH 5 MB 10: 1981
Sampling of road pavement layers	TMH 5 MC1: 1981
Sampling of asphalt or concrete from completed layer or structure	TMH 5 MC 2: 1981
Division of sample using the riffler	TMH 5 MD1: 1981
Division of sample quartering	TMH 5 MD2: 1981

	Sampling of modified binders	TG1-MB1:2019
	Sample preparation for modified binders	TG1-MB2:2019
CONCRETE	Making and curing of test specimen Part 3	SANS 5863-3: 2006
	Test: Consistence of freshly mixed concrete	SANS 5863-1: 2006
	Concrete Test: Compressive strength of hardened concrete	SANS 5863: 2006
	Consistence of freshly mixed concrete Slump test	SANS 5862-1: 2006
	Concrete Tests- the drilling, preparation and compressive strength of cores taken from hardened concrete	SABS 865:1994
AGGREGATE	Particle size analysis of aggregate by sieving	SANS 3001 AG1: 2014
	Determination of the ALD of aggregates by direct measurement	SANS 3001 AG2: 2009
	Determination of the average least dimension of aggregate by computation	SANS 3001 AG3: 2014
	Determination of flakiness index of course aggregates	SANS 3001 AG4: 2014
	Sand equivalent value of fine aggregates	SANS 3001 AG5: 2015
	ACV & 10 % Fact values of course aggregates	SANS 3001 AG10: 2012
	Determination of bulk density, apparent density & water absorption of aggregate particle retained on the 5 mm sieve for road Construction	SANS 3001 AG20: 2011
	Determination of bulk density, apparent density & water absorption of aggregate particle passing the 5 mm sieve for road Construction	SANS 3001 AG21: 2011
	Apparent density of crushed stone base	SANS 3001 AG22: 2012
	Particle & relative densities of aggregates	SANS 3001 AG 23: 2012
ASPHALT	Asphalt briquette manufacture	SANS 3001-AS1:2015
	Marshall Stability & Flow & Quotient	SANS 3001-AS2:2011
	Bulk Density of asphalt briquette	SANS 3001-AS10:2011
	Maximum voidless density of asphalt	SANS 3001-AS11:2011
	Binder content of asphalt mix	SANS 3001-AS20:2011

	Determination of immersion index of a bituminous mixture test	TMH1 C5:1986
	Asphalt briquette indirect tensile strength	TMH1 C12T:1986
BITUMEN	Determination of needle penetration (bitumen & bituminous binders)	EN 1426:2015
	Softening point of bitumen (Ring & Ball apparatus)	ASTM D36:2020
	Viscosity determination of asphalt at elevated temperatures using a rotational viscometer	ASTM D4402:2015
FIELD	Ball penetration test for design of surface seals	SANS 3001-BT10:2014
	Texture depth measurement for design of surface seals	SANS 3001-BT11:2012
	Determination of the in situ permeability of a Bituminous surfacing (Marvel test)	SANS 3001-BT12:2012

Original Date of Accreditation: 07 December 2016

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



Accreditation Manager