

CERTIFICATE OF ACCREDITATION

RANKIN ENGINEERING CONSULTANTS - ZAMBIA

Company Registration No. 21082

Facility Accreditation Number: TEST-3 0004

is a SADCAS accredited Testing Laboratory
provided that all SADCAS conditions are complied with

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

CIVIL ENGINEERING

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

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

*SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States
as a multi-economy accreditation body*

Eve Christine Gadzikwa
SADCAS Chief Executive Officer

Date of renewal of Accreditation 04 September 2023
Effective Date (Issue No: 1): 04 September 2023
Certificate Expires: 03 September 2028

ANNEXURE A

SCHEDULE OF ACCREDITATION

CIVIL ENGINEERING

Laboratory Accreditation Number: **TEST-3 0004 (ISO/IEC 17025:2017)**

<u>Permanent Address of Laboratory</u> Rankin Engineering Consultants Rankin House 11038 Chozi Road Northmead Lusaka Zambia <u>Postal Address:</u> PO Box 50566 Lusaka Zambia Tel : +260 211 290 085 Cell : +260 977 758 800 Fax : +260 211 290 562 Email : tphiri@rankinengineering.com	<u>Technical Signatories</u> : Mr K Malata (All methods) Mr B Zulu (All methods) Mr C Mukuka (All methods) Mr E Tembo (All methods) Mr S Nkonge (All methods) Ms H Sipatunyana (All methods) <u>Nominated Representative</u> : Ms T Phiri <u>Issue No</u> : 04 <u>Date of Issue</u> : 14 July 2026 <u>Expiry Date</u> : 03 September 2028
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MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Aggregates	Particle Size Analysis by Sieving Aggregate Crush Value (ACV) and 10% FACT Values of Coarse Aggregates	SANS 3001 - AG1: 2026 SANS 3001 - AG10: 2012
	Determination of the Flakiness of Coarse Aggregate	SANS 3001 - AG4: 2023
Asphalt	Determination of Bulk Density and Void content of Compacted Asphalt	SANS 3001 - AS10:2011
Bitumen and Bituminous Binders	Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test)	ASTM D2872-22
	Bitumen and Bituminous Binders – Determination of Need Penetration	BS EN 1426:2015
	Viscosity Determination of Asphalt at Elevated Temperatures using a Rotational Viscometer	ASTM D 4402-23
	Softening Point of Bitumen (Ring - and - Ball Apparatus)	ASTM D36/D36M – 14

ANNEXURE A

Laboratory Accreditation No: TEST-3 0004 (ISO/IEC 17025:2017)

Issue No: 04

Date of Issue: 14 July 2026

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MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Gravel	Wet Preparation and Particle Size Analysis	SANS 3001 - GR1:2026
	Determination of the California Bearing Ratio	SANS 3001 - GR40:2023
	Determination of Moisture Content by Oven Drying	SANS 3001 - PR20:2023
	Determination of the Maximum Dry Density and Optimum Moisture Content	SANS 3001 - GR30:2024
	Determination of the Flow Curve Liquid Limit	SANS 3001 - GR12:2013
	Determination of the One-Point Liquid Limit, Plastic Limit, Plasticity Index and Linear Shrinkage	SANS 3001 - GR10:2013
	Particle Size Analysis of Material Smaller than 2.0 mm	SANS 3001 - GR3:2022
Concrete	Compressive Strength of Hardened Concrete	SANS 5863:2006

Original date of accreditation: 25 January 2019

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Varsha Gungoa
For SADCAS Technical Manager