

As an accredited laboratory, this laboratory is entitled to
use the following accreditation symbol.



Valid from 14 May 2023
to 13 May 2026
Issued on 28 December 2023



ISO/IEC 17025
TL 004-03

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: TL 004-03

**Materials Laboratory,
Industrial Technology Institute,
No.120 /4A,
Vidya Mawatha,
Colombo 07.**

Scope of Accreditation: Performing Chemical Testing on Cement and Mechanical Testing on (Reinforcement Steel), Cement and Rubber products as per the Test Methods appearing in this Schedule.

The Laboratory is accredited for the following tests appear on page 02 to 03;



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SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection
Chemical Testing				
01	Cement	Loss on ignition	SLS 107:2015	0.1 – 10.0 %
		Insoluble residue	SLS ISO 29581: Part 1:2011	0.1 – 10.0 %
		Sulfate	BS EN 196: Part 2: 2013	0.1 – 5.0 %
		Chloride		0.01 – 0.50 %
Mechanical Testing				
02	Metal Reinforcement Steel (08- 32mm)	Yield strength	SLS 375:2009 and BS 4449:2005 + A3:2016	475-875 MPa (Ø ≤ 20mm) 475-725 MPa (Ø > 20mm)
		Tensile strength		500-850 MPa (Ø ≤ 20mm) 500-750 MPa (Ø > 20mm)
		Tensile strength to Yield strength ratio		1.00-1.50
		Total elongation at maximum force		1.0 -15.0 %
		Mass per Meter		0.300-7.000 kg
		Rebend test		Up to 900 kN
		Bend test	SLS 375:2009	Up to 900 kN
		Total Elongation at break		10-40
03	Cement	Compressive strength (2 days)	SLS 107: 2015	7-35 N mm-2
		Compressive strength (28 days)	SLS ISO 679:2011	25 -70 N mm-2
		Setting time	SLS 107: 2015	20 -300 min
		Soundness	SLS ISO 9597:2011	0.0 -20 min
04	Rubber Products	Shore A Hardness	ISO 48-4:2018	30 -90 Shore A
		IRHD Hardness	ISO 48-2:2018	30 - 85 IRHD
		Density	ISO 2781:2018	0.024 - 2.600 gcm ⁻³
		Abrasion	ISO 4649:2017	Cylindrical test piece, Non rotating 0 - 400 mm ³



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05	Rubber Products	Heat Aging	ISO 188:2011	Method B 23 °C ± 1 °C 70 °C ± 1 °C 85 °C ± 1 °C 100 °C ± 1 °C 1.5 – 50.0 MPa 30 – 90 Shore A 30- 85 IRHDN
		After aging Tensile strength Hardness Shore A Hardness IRHD N		
		Compression Set	ISO 815 - 1:2019	Type B, 25 % Compression 23 °C ± 1 °C 70 °C ± 1 °C 85 °C ± 1 °C 100 °C ± 1 °C 0- 100%
		Tensile properties (Elongation)	ISO 37:2017	1-1000%, 500mm/min
		Tensile Strength	ISO 37:2017	1.5 – 50 Mpa Dumb-bell 500mm/min

C. A. G. K.
Director/CEO
Sri Lanka Accreditation Board for Conformity Assessment

