

Rock Mechanics Laboratory CC

About Us

Rock Mechanics Laboratory CC (RML) is an independent testing facility offering professional rock mechanics testing services to the mining and civil engineering industries. Based at the CSIR Carlow Road Campus in Melville, Johannesburg, we combine state-of-the-art equipment with over 25 years of expertise to provide high-quality geotechnical testing services.



Vision

To excel and be a world-class facility in rock mechanics testing.

Mission

- Deliver cost-effective rock mechanics testing services
- Equip the laboratory with high-calibre instruments
- Adhere to international standards and best practices
- Provide timely and reliable results
- Promote education and training in rock mechanics

Rock Testing Services

- Uniaxial Compressive Strength (UCS) with Elastic Modulus and Poisson's ratio (UCM)
- Tri-axial Compressive Strength (TCS) for determining the Mohr Coulomb parameters (Cohesion, Friction Angle) and Hoek-Brown Constants (σ_{ci} and m_i)
- Brazilian Indirect Tensile Strength
- Direct Tensile Strength
- Direct Transverse Tensile Strength
- Point Load Index
- Slake durability index
- Duncan swell index
- Basic Friction Angle (BFA) using shear box
- Shear strength of open joint/discontinuity plane and Barton's JRC using shear box
- Density, Moisture content Measurement



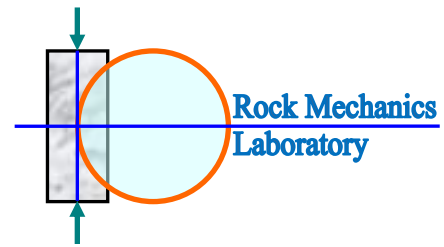
ROCK MECHANICS LABORATORY CC

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Support Unit Testing Services

- TSLs: tensile, bond, shear, biaxial/flexural, compressive strengths
- Shotcrete / Backfill / Concrete: cube compression, EFNARC Panel tests
- Tendons/Cables: tensile. Resin: pull and shear tests. Domed washer: compression test
- Props/Elongates/Mechanical Props compressive strength. Pre-stress Pots Burst loads.



Training

Rock mechanics theory (Paper 1) and mechanical properties of rock

Why Choose RML?

- Independent
- Decades of experience
- Fast turnaround times
- International standard compliance
- Expert staff and advanced facilities
- Conveniently located in Johannesburg

Contact Us

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