

CCNS Rock Socket Shear Testing

Through its association with Monash University, Foundation QA provides advanced laboratory testing facilities for simulation of rock-socketed piles.

The Cyclic Constant Normal Stiffness (CCNS) Direct shear rig is capable of testing rock and concrete sample up to 600mm x 200mm in plan and with normal and shear load capacity to 200 kN under computer servo-hydraulic control. Monotonic or cyclic test regimes, load and deflection control, with constant stiffness or stress can all be programmed.

Dr. Seidel develops and oversees the test programs, and analyses the results using the socket design program Rocket for implementation of appropriate socket design parameters.

Other specialized specialized and unique geotechnical laboratory equipment is available for testing on request, including

- triaxial cells capable of testing rock with cell pressures of up to 70 MPa and measurement of pore pressures (for sedimentary rocks)
- Amsler and Baldwin universal tension and compression testing machines with capacities up to 5000 kN dynamic
- Hoek cells for rock testing

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