

EMC TEST FACILITY

ELECTROMAGNETIC COMPATIBILITY TESTING



The **EMC Test Facility** at Houwteq provides Electromagnetic Compatibility (EMC) testing services to the commercial, aerospace and defence industries.

The laboratory is located near Grabouw, a small town approximately 70km from the Cape Town international airport.

The test facility is equipped with a large fully anechoic chamber and a 10m Open Area Test site. The size of the anechoic chamber (8m x 7m x 8m) and the large access doors make provision for the testing of large systems.



SPECIFICATIONS

EMC TEST FACILITY

Dimensions

Room with Large Access Doors

8m x7m x 8m

Open Area Test Site

10m

Testing Standards

Radiated and conducted emission measurements are performed to commercial specifications such as:

CISPR-11 (Medical and Scientific Test equipment), CISPR-22 (IT equipment) and CISPR-25 (Automotive).

The capability also exists for subjecting products to immunity tests such as:

Electrostatic discharge, radiated susceptibility, fast transient bursts, surges, and magnetic field immunity testing according to standards such as IEC-1000-4-2, IEC-1000-4-3, IEC-1000-4.4, IEC 1000-4-5 and IEC-1000-4-11

Testing for the Aerospace and Defence industries is performed in accordance with standards such as:

MIL-STD-461G and RTCA DO/160G

The capability exists to perform testing to these standards over the frequency range of 10kHz to 18GHz for emission testing and to immunity levels of 200V/m over the same frequency range, the latter capability being unique in the RSA.

Certification

The test facility is not accredited at present but the process for applying for accreditation by the South African National Accreditation Service (SANAS) is currently underway.