

Client: National Home Builders Registration Council (NHBRC)
Value: R3 million (Fee) (to-date)
Services: Forensic Engineering Assessments
Project Duration: March 2015 – Ongoing

Forensic Engineering Assessments, South Africa

Forensic Infrastructure Assessments: Civil and Structural; 3 year duration

The Task

The National Home Builders Registration Council (NHBRC) has a mandate to manage structural defect risks in the home building industry so as to protect industry consumers. The NHBRC implements a warranty scheme which safeguards the Council from gratuitous claims.

The NHBRC issued an instruction to perform forensic engineering assessments at various townships in South Africa over the course of three years, beginning in 2015. The assessments provide the client with a current condition assessment of existing RDP homes within the townships together with remedial actions for each housing unit. The project submission includes an engineering (structural and civil) report and photographic record data,

Scope of Work

Lithon Project Consultants, together with Nurizon, was appointed to undertake the forensic assessments for the NHBRC within the three year timeframe. Nurizon draws on its credible past experience in the forensic housing assessment arena and field data capturing techniques. Each housing unit is assessed using in the following manner:

1. Investigate the structural integrity and quality of foundations and top structure;
2. Assess the quality of material and products;
3. Assess the conditions of the infrastructural services; and
4. Produce specifications and cost estimates for the necessary remedial works.



The Result

Nurizon has developed quality assessment methodologies, which are guaranteed to produce forensic engineering assessment results with the necessary clarification on structural suitability and habitability of existing NHBRC housing units in the country. Clear and concise report templates for remedial works have also been refined over a number of years, however each township is inherently different. At the time of publication (Sept 2015), the NHBRC has been issued with consolidated forensic assessment reports and cost estimates for 2,880 units.



Township assessments undertaken to-date

Stranger (KwaDukuza) ext 46

Ncotshane

Umdumezulu

Ismahla

Enyathi

Umlazi F11

Forensic Housing Assessments, South Africa

Forensic Infrastructure Assessments: Civil and Structural