



## **Condition Assessments of Concrete Structures**

*Concrete Diagnostics Pty Ltd, can assist you in determining the condition of a concrete structure by providing a range of diagnostic services including:*

- **Reinforcement** location, size, cover and distribution,
- Location and depth of **stressing cables** ( Post/Pre tension cables),
- **Concrete thickness**, beams and concrete thickenings (such as footings),
- **Voids** within and under concrete slabs.
- verify the precise **exit point** of core penetrations

Supporting diagnostics may also include:

- **Chloride and sulphate profiling**; whereby the core is sliced into smaller biscuits and analyzed. This can assist in determining the degree of chloride penetration into the concrete structure and where the chlorides may have originated.
- **Carbonation testing**; normally performed on fractured cores removed from site or can be performed on concrete fragments in-situ.
- **Compressive strength**; of the concrete can be determined by removal of concrete cores for crushing. A **Schmidt hammer** can also be used; however in older concrete structures uncertainty due to carbonation of the concrete can be quite high so it is generally only used as a guide.
- **Corrosion potential survey**; may be performed in-situ, using a reference electrode, allowing a snap shot of the corrosion potential, locating potential "hot spots".

Concrete Diagnostics use a range of NDT methods including Ground Penetrating Radar (GPR), electromagnetic field detection, magnetic field transpointing, and many other methods if requested such as impact echo, pulse velocity etc.

*With over 12 years of experience, providing a range of concrete scanning, testing, and diagnostic services. We are only too willing to assist you on your project, no matter how large or small.*

Contact us on **0458 772 327** / [admin@concretediagnosics.com.au](mailto:admin@concretediagnosics.com.au)

or visit us on [www.concretediagnosics.com.au](http://www.concretediagnosics.com.au)

