



**ZEAL INTERNATIONAL** (An ISO 9001 Certified Company)

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## Density Of Fresh And Hardened Concrete ZI 2053

Standards:

Specification:

The density of both fresh and hardened concrete is of interest to the engineer for numerous reasons including its effect on durability, Strength and resistance to permeability.

Hardened concrete density is determined either by simple dimensional checks, followed by weighing and calculation or by weight in air / water buoyancy methods.

### **Density of Hardened Concrete:**

The density of hardened concrete specimens such as cubes and cylinders can be quickly and accurately determined using a Buoyancy Balance.

### **Buoyancy Balance:**

The buoyancy balance system developed by us consists of a rigid support frame. Incorporating a water tank mounted on a platform. A mechanical lifting device is used to raise the water tank through the frame height immersing the specimen suspended below the balance fixed on a cradle.

The balance supplied may also be used as a standard weighting device, thus providing a versatile and comprehensive weighing system in the laboratory. The sample is weighed in air and in water to calculate the density of fresh concrete.

