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Technical Specification Durometer PCE-HT-225A

General information about concrete's resistance to pressure

Resistance to pressure is generally defined as the measurement of resistance to breaking under a particular pressure load at an axis during a brief point in time. The resistance to pressure of concrete is determined, taking into account the following parameters:

- Resistance of a block of cement
- Composition and compactness of concrete
- Time and conditions of storage
- Dimensions and form of element being tested
- Type and duration of load

Resistance to pressure is normally determined in laboratories using cubes or cylinders of concrete. If using cylinders, once the concrete sample has been chosen, it is recommended that a surface is immediately prepared that is flat and smooth. Cylinders are very durable. In places where it's not possible to take measurements with methods used in laboratories, a durometer, with an easy to use hammer, is used.

Technical specifications

Range of measurement	100 to 600 kg/cm² (~9.81 to 58.9 N/mm²)
Accuracy	±18 kg/cm² (~±1.8 N/mm²)
Energy	2207 J
Indication of measurement	0 to 100 (without dimensions)
Scale for the resistance to pressure at the back	to convert values indicated without dimensions to kg/cm (with introduction of angle)
Correction table for measurements	in the user's manual
Maximum thickness of concrete (of the material)	70cm
Dimensions	diameter de 66 x 280mm
Weight	1kg