Australian Standard®

Methods of testing concrete

Method 17: Determination of the static chord modulus of elasticity and Poisson's ratio of concrete specimens

PREFACE

This Standard was prepared by the Standards Australia Committee BD/42 Methods of Testing Concrete, to supersede AS 1012.17—1976. This Standard is part of a series applying to the sampling and testing of concrete.

The objective of this Standard is to provide those involved in the testing of concrete with methods for the determination of static chord modulus of elasticity and a method for the determination of Poisson's ratio.

In preparing the methods set out in this Standard, the Committee has taken into account experience in Australia and the methods described in ASTM C469, *Standard Method of Test for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression*. Acknowledgment is made of the assistance received from this source.

The term 'normative' has been used in this Standard to define the application of the appendices to which it applies. A 'normative' appendix is an integral part of a Standard.

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out methods for the determination of static chord modulus of elasticity and a method for the determination of Poisson's ratio.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1012 Methods of testing concrete

1012.8 Method 8: Method for making and curing concrete compression, indirect tensile and flexure tests specimens, in the laboratory or in the field

1012.9 Method 9: Method for the determination of the compressive strength of concrete specimens

1012.12 Method 12: Method for the determination of mass per unit volume of hardened concrete

1012.14 Method 14: Method for securing and testing cores from hardened concrete for compressive strength

1379 The specification and manufacture of concrete

1545 Methods for the calibration and grading of extensometers

3600 Concrete structures