

Australian Standard[®]

Methods of testing concrete

Method 13: Determination of the drying shrinkage of concrete for samples prepared in the field or in the laboratory

METHOD

1 SCOPE

This Standard sets out a method for curing concrete shrinkage specimens in the laboratory, and for determining the length changes of these specimens due to drying in air. It provides for testing of specimens prepared in the laboratory or in the field in accordance with AS 1012.8.4, in which the nominal size of aggregate in the concrete, in accordance with AS 2758.1, does not exceed 40 mm.

The precision statement in Clause 9 does not apply to specimens which have had non-standard initial curing (normally field-prepared specimens). In addition, this Standard requires that field-prepared specimens are marked, recorded and reported as such.

NOTES:

- 1 This test method is not always suitable for very low slump concrete (less than 20 mm), primarily due to the difficulties in obtaining adequate compaction. Provided adequate compaction is obtained, the method is applicable.
- 2 The method is specifically designed for measurement of drying shrinkage of concrete, but it is capable of adaptation for measurement of length changes of specimens subjected to a variety of environmental conditions.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1012 Methods of testing concrete

1012.8.1 Method 8.1: Method for making and curing concrete—Compression and indirect tensile test specimens

1012.8.4 Method 8.4: Making and curing concrete—Drying shrinkage specimens prepared in the field or in the laboratory

2758 Aggregates and rock for engineering purposes

2758.1 Part 1: Concrete aggregates