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## Methods of testing roof tiles

### Method 4: Determination of water absorption

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#### 1 SCOPE

This Standard sets out the method for determining the water absorption of roof tiles.

#### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2049 Roof tiles

4046 Method of testing roof tiles

4046.3 Method 3: Determination of transverse strength

#### 3 PRINCIPLE

Saturated pieces of tile are weighed, oven-dried and reweighed. The decrease in mass is used to express the water-absorption properties of the tiles.

#### 4 APPARATUS

The following apparatus is required:

- (a) A water trough in which to immerse the tiles.
- (b) A ventilated oven capable of maintaining a temperature within the range 100°C to 110°C for 24 h.
- (c) Suitable weighing apparatus to weigh to an accuracy of 0.1% of the weight of the specimen.

#### 5 TEST SPECIMENS

##### 5.1 General

Each test piece required for the test shall have a mass of not less than 1000 g.

##### 5.2 Roof tiles

Test pieces shall be taken from the six tiles fractured in the transverse strength test (AS 4046.3), the test being commenced while the portions are still in a saturated condition.

##### 5.3 Accessories

Test pieces from three specimens from an identifiable lot are required. Accessories shall be tested in a saturated condition. Where the required test pieces have not first been tested for transverse breaking, they shall be conditioned in accordance with AS 4046.3.

NOTE: In certain circumstances, AS 2049 makes provision for a retest.