

Methods of testing roof tiles

Method 2: Determination of batten lugs and squareness

1 SCOPE

This Standard sets out the method for the selection of roof tiles for testing and sets out the method for determining the following:

- (a) That the tiles are self supporting when hung on the lugs provided.
- (b) That the alignment of the tile is true.
- (c) The dimensioned deviations from work size.

2 REFERENCED DOCUMENTS

The following document is referred to in this Standard:

AS	
4046	Method of testing roof tiles
4046.1	Method 1: Determination of distortion

3 APPARATUS

The following is required:

- (a) Stand, as shown in Figure 1, designed for both horizontal and vertical use.
- (b) A gauge or calliper, capable of being read to an accuracy of 1 mm and long enough to measure the complete specimen in one application, shall be used.

4 TEST SPECIMENS

The 12 tiles used for distortion in AS 4046.1 shall be used for this test.

5 PROCEDURE

The procedure for each of the 12 tiles is as follows:

- (a) Place the stand on a surface that is approximately horizontal.
- (b) Hang or place each tile to be tested on the stand so that its batten lugs rest fully on the top edge of the stand.
- (c) Measure, to the nearest millimetre, the distances between the top and bottom corners of the tile and the adjacent side of the stand for each side and note the differences.
- (d) Lay the tile horizontal in the frame and measure to the nearest millimetre, the exposed width and the length of each tile, using the frame as a straight edge to align the nose, head or sides as required to achieve a plan measure of each dimension.

6 RECORDS

The following information shall be recorded:

- (a) Identification of the sample.

- (b) Date and location of sampling.
- (c) Date of test.
- (d) Where lugs are fitted, whether or not the tile was self-supporting when hung by the batten lugs.
- (e) Work sizes of the type of tile.
- (f) Individual measurements for each of the specimens in Clauses 5(c) and 5(d).

7 REPORT

The following information shall be reported:

- (a) Identification of the test method.
- (b) Identification of the sample.
- (c) Date and location of sampling.
- (d) Date of test.
- (e) Work sizes for the lot.
- (f) Where batten lugs are fitted, whether or not each of the tiles were self supporting when hung by the batten lugs.
- (g) The differences in the dimensions measured in Clause 5(c) for each of the tiles.
- (h) The dimensions measured in Clause 5(d) for each of the tiles.
- (i) The percentage of variation of each dimension in Clause 5(d) to the nominated work size, for each of the tiles.
- (j) The maximum % variation for each dimension in Clause 5(d) from across the sample of 12 tiles tested.
- (k) Reference to this Australian Standard, i.e., AS 4046.2.