Australian Standard™

Methods of testing roof tiles

Method 1: Determination of distortion

1 SCOPE

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

2 REFERENCED DOCUMENTS

The following document is referred to in this Standard:

AS	
4046	Method of testing roof tiles
4046.0	Part 0: Introduction and list of methods

3 APPARATUS

3.1 Support

An array of four battens, fixed to supports inclined at approximately 45° to the horizontal and at a spacing to suit the tiles to be tested (see Figure 1).

3.2 Reference tiles

A set of 10 tiles of the same type as the test specimen, manufactured to the tile specifications and certified by the manufacturer to have a minimum distortion within the parameters of the tile type.

NOTE: These master tiles may be made from some other more durable material.

4 TEST SPECIMENS

Twelve tiles shall be selected at random from an identifiable lot (see AS 4046.0) and each shall be individually marked.

5 PROCEDURE

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

(a) Position the test stand to permit easy fixing and measurement of the tiles.

(b) Fix the first course using four reference tiles.

(c) Fix the second course using three tiles with the test specimen in the centre and a reference tile on each side.

(d) Fix the third course using four reference tiles.

(e) Measure, to the nearest millimetre, any gap between the test specimen and the adjacent reference tiles (i.e., above, below and to the side) and record the results.

(f) Repeat Steps (c) to (e) for the remaining eleven tiles.

(g) Where appropriate, repeat Steps (b) to (f) for the alternative bond (i.e., broken or straight bond).