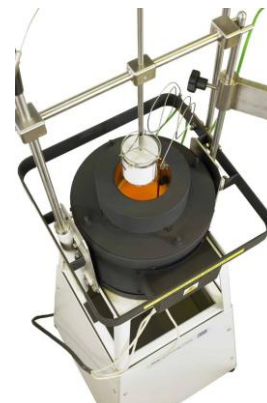
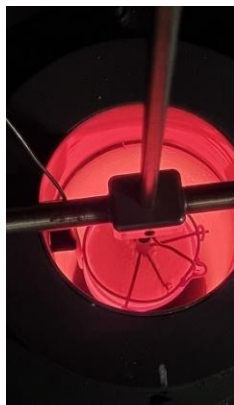


Combustibility Test for Materials (AS 1530.1)

The Australian National Construction Code definition of **Non-Combustible** means:

(a) when applied to a material – *not deemed combustible as determined by AS 1530.1*; and
(b) when applied to construction or part of a building - *constructed wholly of materials that are not deemed combustible*.



AS 1530.1 sets out a test method for a small-scale assessment of building materials, and components. It can be used to show compliance with the “Deemed to Satisfy” provisions in the Australian National Construction Code.

In this test a vertically mounted specimen is subjected to a constant intense radiant heat source at 750°C, over a 30-minute period. Temperatures at the centre of the specimen, the outer surface of the specimen and the furnace are continually measured using thermocouples, and the specimen is constantly observed.

Any period of sustained flaming (greater than 5 seconds) is recorded, and the cumulative total of these periods of flaming is divided by 5.

The mass of the specimen before the test is measured. After exposure and a cooling period, the specimen including any ash, char or other debris is reweighed.

Combustibility is determined by failure in any one of three conditions:

- (a) Any duration of sustained flaming greater than 0 seconds
- (b) The increase in the mean temperature of the furnace by 50°C; or
- (c) The increase in mean temperature of the outer surface of the test specimen by 50°C.

Sample size:

10 cylindrical specimens, diameter 45+0 / -2mm, height 50±3mm

Test Code:

T18C

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