

Australian/New Zealand Standard®

Pliable building membranes and underlays— Methods of test

Method 4: Resistance to water penetration

METHOD

1 SCOPE This test determines the ability of a pliable building membrane material to resist water penetration.

2 APPARATUS The following apparatus shall be required:

- (a) *Cylinder*—cross-sectional area not less than 25 cm² with base clamping mechanism.
- (b) *Coloured aqueous solution*—distilled water containing a minimum dose of dye, such as methylene blue, which is non-reactive to the test specimen. Temperature 20 ±2°C.
- (c) *White filter paper*

3 TEST SPECIMEN The test specimen shall be at least 1000 mm in length in machine direction, and be of full roll width.

4 PROCEDURE The following steps shall be taken:

- (a) Cut a circular test piece from the test specimen.
- (b) Securely clamp the test piece over the base of the cylinder.
- (c) Clamp a filter paper to the underside of the test piece.
- (d) Pour the coloured aqueous solution into the cylinder to a depth of 100 mm.
- (e) Allow the test apparatus to stand for a period of 24 h in a room at 23 ±5°C.
- (f) Remove the filter paper from the underside of the test piece. Visually inspect the filter paper for evidence of staining by coloured solution which has penetrated the test piece.
- (g) For materials which are asymmetrical in structure, repeat Steps 3(a) to 3(f) using a second test piece orientated with the reverse face towards the coloured solution.

5 REPORTING The following results shall be reported:

- (a) *Pass* If no test pieces exhibit staining, then report the test result as 'Pass'.
- (b) *Fail* If any test pieces exhibit staining, then report the test result as 'Fail'.

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