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TEST REPORT

DC2563

SELF SEALABILITY TESTING OF VIKING PEEL & STICK MEMBRANE

CLIENT

Viking Group Ltd
80 Alexander Crescent
Otaia
Manukau 2023
New Zealand

PROJECT NUMBER:

DC2563

ISSUE DATE:

10 June 2015

PAGE:

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LIMITATION

The results reported here relate only to the item/s tested.

TERMS AND CONDITIONS

This report is issued in accordance with the Terms and Conditions as detailed and agreed in the BRANZ Services Agreement for this work.



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NJM

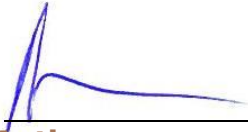
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RWC

A black ink signature, appearing to be "RWC", written inside a rectangular box.

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1. OBJECTIVE

To carry out Self Sealability Testing in general accordance with Section 7.9 of ASTM D 1970 on a membrane material.

2. DESCRIPTION OF MATERIAL TESTED

Viking provided a sample comprising a modified bitumen self-adhesive membrane adhered to 15 mm untreated (NZ sourced) plywood. The client stated that the plywood was primed with a solvent-based bitumen adhesive. Artificial thatch lengths, bonded on the top edge by a rubber strip, were fixed to the plywood through the membrane using staples. The client stated that these were 16Ga straight leg 45mm long 11mm wide crown 304 stainless steel staples.

3. LIMITATION

BRANZ has no knowledge of the sampling criteria used to select the sample submitted for testing, the results only relate to the sample provided.

4. DESCRIPTION OF TEST PROCEDURE

4.1 Self Sealability

The test was conducted general accordance with, and met the conditions of acceptance in, Section 7.9 of ASTM D 1970. This test method determines the ability of the membrane to seal around a nail or staple and prevent standing water from leaking through to the underside of the membrane.

A steel perimeter bund piece was fabricated and fixed to the top of the membrane using screws and sealant. This formed a sealed tray to allow water to be ponded on top of the membrane as shown in Figure 1. The test specimen included two rows of the stapled thatch strips each strip included three staples.



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Figure 1: Steel perimeter bund fitted to form a tray over the membrane

Once the sealant was cured the test assembly was filled with water to a depth of ~ 30 mm. The entire test assembly was left at room temperature for a period of at least three days. At the conclusion of the test an inspection was made for any water on the underside of the plywood. Water was then poured from the tray and the inside blotted dry. The steel perimeter was then peeled from the membrane and the membrane peeled back to the staples and the underside inspected for any evidence of water.

4.2 Conditions of Acceptance

No water shall be present on the staple shanks, on the underside of the plywood, or between the plywood and the membrane.

5. RESULTS

After at least three days exposure there was no evidence of water on the underside of the plywood, on the staple shanks, or between the plywood and the membrane.



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