

DC2160/1

Peel Adhesion Testing on the 3M™ 8067 All Weather Flashing Tape to ICBO AC148 (2001) Specifications for Rockcote Resene Ltd

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BRANZ's agreement with its Client in relation to this report contains the following terms and conditions in relation to **Liability and Indemnification**

- a. Limitation and Liability
 - i. BRANZ undertakes to exercise due care and skill in the performance of the Services and accepts liability to the Client only in cases of proven negligence.
 - ii. Nothing in this Agreement shall exclude or limit BRANZ's liability to a Client for death or personal injury or for fraud or any other matter resulting from BRANZ's negligence for which it would be illegal to exclude or limit its liability.
 - iii. BRANZ is neither an insurer nor a guarantor and disclaims all liability in such capacity. Clients seeking a guarantee against loss or damage should obtain appropriate insurance.
 - iv. Neither BRANZ nor any of its officers, employees, agents or subcontractors shall be liable to the Client nor any third party for any actions taken or not taken on the basis of any Output nor for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to BRANZ.
 - v. BRANZ shall not be liable for any delayed, partial or total non-performance of the Services arising directly or indirectly from any event outside BRANZ's control including failure by the Client to comply with any of its obligations hereunder.
 - vi. The liability of BRANZ in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim or NZD\$50,000 (or its equivalent in local currency), whichever is the lesser.
 - vii. BRANZ shall have no liability for any indirect or consequential loss (including loss of profits).
 - viii. In the event of any claim the Client must give written notice to BRANZ within 30 days of discovery of the facts alleged to justify such claim and, in any case, BRANZ shall be discharged from all liability for all claims for loss, damage or expense unless legal proceedings are commenced in respect of the claim within one year from:
 - The date of performance by BRANZ of the service which gives rise to the claim;
 - or
 - The date when the service should have been completed in the event of any alleged non-performance.
- b. Indemnification: The Client shall guarantee, hold harmless and indemnify BRANZ and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any third party for loss, damage or expense of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance, of any Services.
- c. Without limiting clause b above, the Client shall guarantee, hold harmless and indemnify BRANZ and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any party for loss, damage or expense of whatsoever nature including all legal expenses and related costs arising out of:
 - i. any failure by the Client to provide accurate and sufficient information to BRANZ to perform the Services;
 - ii. any misstatement or misrepresentation of the Outputs, including Public Outputs;
 - iii. any defects in the Products the subject of the Services; or
 - iv. any changes, modifications or alterations to the Products the subject of the Services.



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1. CLIENT

Rockcote Resene Ltd
PO Box 39108
Harewood
Christchurch 8545
New Zealand

2. OBJECTIVE

To carry out the Peel Adhesion testing in accordance with the ICBO Evaluation Service Inc. Acceptance Criteria for Flashing Materials (AC148, 2001) on the 3M 8067 All Weather Flashing Tape.

3. DESCRIPTION OF MATERIAL TESTED

The client provided two rolls of 3M™ 8067 All Weather flashing tape. This sample was understood by BRANZ to be representative of what was being provided to the industry. The flashing tape was assigned a BRANZ sample code 11/476.

4. 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.

5. DESCRIPTION OF TEST PROCEDURE

5.1 Peel Adhesion - Method A of ICBO criteria:


Peel Adhesion testing was carried out on eight substrates, Kraft building paper; Du Pont (N.Z.) Ltd 'Tyvek Home Wrap'; Thermakraft Industries (N.Z.) Ltd 'Diflex 130'; Thermakraft Industries (N.Z.) Ltd 'Cover-Up'; Thermakraft Industries (N.Z.) Ltd 'Watergate Plus'; Marshall Waterproofing NZ/AUS Ltd 'Tekton', Paul Industries 'Fast Wrap' and uPVC. Five control specimens and five aged test specimens for each substrate were prepared and tested in accordance with ASTM C 794. Control specimens were conditioned at 23°C and 54%RH for a minimum of 40 hours. Aged specimens were exposed to 25 conditioning cycles as follows: (1) Oven drying at 48.9°C for three hours, (2) Horizontal immersion in water maintained at 24±3°C for three hours, (3) Removal from the water and blotted dry before 18 hours at -40°C. Testing was carried out on a calibrated Instron Universal Testing Machine with a 10kN load cell and a test speed of 50.8 mm/min was used.

5.1.1 Conditions of Acceptance

No visible damage, such as cracking or chipping to the specimens and the peel strength of the aged specimens must exceed 75 percent that of the control specimens.


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6. RESULTS

The results recorded here only relate to the samples tested.

6.1 Peel Adhesion

Kraft Building Paper

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	9.2	*	
2	8.7	*	
3	8.5	10.7	
4	8.0	9.5	
5	8.3	9.3	
Average	8.5	9.8	15.3

Tyvek Home Wrap

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	6.8	7.0	
2	6.7	6.8	
3	6.5	7.4	
4	6.6	7.3	
5	6.8	7.5	
Average	6.7	7.2	7.5

Thermakraft Cover-Up

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	6.5	7.1	
2	5.9	7.4	
3	5.9	6.9	
4	6.4	9.3	
5	6.1	7.9	
Average	6.2	7.7	24.2

Tekton

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	8.2	10.8	
2	7.4	12.1	
3	7.9	10.2	
4	7.4	11.2	
5	7.2	11.1	
Average	7.6	11.1	46.1

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Diflex 130

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	6.9	9.2	
2	6.5	8.8	
3	6.7	8.6	
4	6.7	9.5	
5	6.9	7.9	
Average	6.7	8.8	31.3

Watergate Plus

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	5.4	11.1	
2	5.3	10.4	
3	5.4	10.8	
4	5.4	10.3	
5	5.0	8.8	
Average	5.3	10.3	94.3

Fastwrap

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	8.1	8.0	
2	8.0	9.1	
3	6.6	8.0	
4	7.7	8.8	
5	7.6	8.4	
Average	7.6	8.5	11.8

uPVC

Specimen no.	Average Peel Strength (N)		Percentage Difference %
	Control specimens	Aged specimens	
1	10.8	*	
2	10.0	11.4	
3	11.7	11.0	
4	10.7	9.2	
5	11.3	9.9	
Average	10.9	10.4	-4.6

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7. SUMMARY

The 3M™ 8067 All Weather Flashing Tape passed the peel adhesion requirements of the ICBO AC148 July 2001 Acceptance Criteria for Flashing Materials.


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