

IAN BENNIE AND ASSOCIATES

TEST REPORT NO. 2014-045-S3.1 to 3.8

**HANITA '4 MIL CLEAR XTRA' FILM ON 4
MM FLOAT GLASS
IMPACT TEST to AS/NZS 2208 - 1996**

for

Hanita Pacific

December 2014



Accredited Laboratory No. 2371
Accredited for compliance with ISO/IEC 17025.



IAN BENNIE & ASSOCIATES PTY. LTD.
Building Performance Testing

ACN : 007 133 253



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Laboratory
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TEST REPORT NUMBER 2014-045-S3.1 to 3.8

Test Client: Hanita Pacific

Sample I.D: Material: Hanita '4 mil Clear Xtra' film on 4 mm float glass (film applied by Hanita)
Size: 1900 mm x 860 mm (default size)
Number of identical samples supplied: 8

Test Method: In accordance with Appendix D Impact Test of AS/NZS2208-1996, Safety Glazing Materials in Buildings, amended 1999, the eight samples were tested for compliance with the requirements for Grade A Safety Glazing Materials. As the sample was asymmetrical, four samples were impacted on the film side (Samples 2.1 to 2.4) and four on the glass side (Samples 2.5 to 2.8).

Conditioning: All samples were stored in a temperature control test room for more than 24 hours with an ambient temperature of $22 \pm 3^{\circ}$ C prior to testing. All tests were conducted in the same room with the temperature maintained.

Result: Observations are given in Table 1.

Conclusion: The Hanita '4 mil Clear Xtra' film on 4 mm float glass passed the impact test requirements for Grade A Safety Glazing Materials.

Test Location: Ian Bennie & Associates Test Centre

Test Date(s): 19 November 2014

Test Officer: Ian Bennie

Table 1. Test Observations

Sample	Drop height when breakage occurred (mm)	Observations	Result
S3.1 FS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample, the largest fragment being approximately 150 square millimetres	Pass
S3.2 FS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample with only fine splinters of glass falling off.	Pass
S3.3 FS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample with only fine splinters of glass falling off.	Pass
S3.4 FS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample, the largest fragment being approximately 240 square millimetres	Pass
S3.5 GS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample, the largest fragment being approximately 280 square millimetres	Pass
S3.6 GS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample with only fine splinters of glass falling off.	Pass
S3.7 GS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample with only fine splinters of glass falling off.	Pass
S3.8 GS	300	Numerous cracks were created in the glass but no openings occurred. No significant pieces released from the sample with only fine splinters of glass falling off.	Pass

FS = film side impact

GS = glass side impact

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Ian Bennie, 1 December 2014
Authorised NATA Signatory