



All tests reported herein
have been performed in
accordance with the
laboratory's scope of
accreditation

No. 1519153.9

(Please quote this number in all correspondence)

CLIENT:
Godfrey Hirst New Zealand Ltd.
PO Box 97 145
SAMC, Manukau

Attn.: Marty Veele

SAMPLE RECEIVED FROM:
Godfrey Hirst New Zealand Ltd.

Date Received: 20.6.24

SAMPLE DESCRIPTION:
Laminate flooring planks assembly with standard Arriba
underlay attached o the bottom as a complete system:
GH LAM E2050X211
Code: 485984

Client Order No.: 7000021230

Client Reference:

1 of 4

ISO 4760:2022(E) - LAMINATE FLOORING – TOPICAL MOISTURE RESISTANCE – ASSEMBLED JOINT (MODIFIED)

Method

The sample was cut into pieces then connected using the profiled locking edges and fastened into an assembled floating "T joint" configuration as per the test method . The testing was performed in triplicate.

Weights were not used on all samples.

100 mls of dye solution was applied onto the sample surface. It was poured into a cylinder 100mm diameter placed in the centre of the sample at the "T joint." Sealant was used at the plank/cylinder interface to avoid leakage.

The sample was placed on white paper towels prior to testing to enable detection of any dye penetration through the joints.

The sample was left at 20°C, 65% Relative Humidity room conditions for 24 hours after the dye was added and then examined for dye penetration through the backing (not 23°C, 50% RH as stated in the method).

If swelling measurements are requested, thickness measurements are taken at specified test positions - before water, within 15 minutes after water removal (qualitative and quantitative) and 24 hours after removal of water (qualitative and quantitative).

Quantitative measurements are used to calculate surface swell in mm (within 15 minutes after water removal) and recovery swell (24 hours after removal of water).

Date Tested: 24/6/2024

Note: Samples were assembled by the client.

Results:

Quantitative Results:	Wet Swell (mm)			Recovered Swell (mm)		
	Specimen 1	Specimen 2	Specimen 3	Specimen 1	Specimen 2	Specimen 3
Final Average Results (Positions 2 to 4)	0.00	0.07	0.02	0.00	0.00	0.00
Final Results (Position 1)	0.00	0.01	0.00	0.00	0.00	0.00

	Wet Swell			Recovered Swell		
	Specimen 1	Specimen 2	Specimen 3	Specimen 1	Specimen 2	Specimen 3
Qualitative Ratings (individual results):	1	1	1	1	1	1

Qualitative Grade:

- 1 = No change - Little to no noticeable change in edge swell or panel surface lift
- 2 = Slight swelling - Slight swelling, small ridge along one or more joints, very little if any panel surface lift
- 3 = Moderate - Noticeable edge swelling and some panel surface lift extending away from joint
- 4 = Objectional - Severely raise edge and swelling extending noticeably under the panel surface
- 5 = Failed test - Water leaked out of the ring, leaving no continuous film of water inside the ring
(this grade is given even if there is no swell of the edge joint)

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.


C Judan
Key Technical Person

27/06/2024



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Observations:	Specimen 1	Specimen 2	Specimen 3
Migration of water along the upper surface:	No	No	No
Migration of water to the underside:	No	No	No

Disassembly Observations:	Specimen 1	Specimen 2	Specimen 3
Migration of water along the upper surface:	No	No	No
Migration of water to the underside:	No	No	No

Note: The Acceptable Solutions and verification methods, New Zealand Building Code E3 Internal Moisture defines on page 9 definitions - "**Impervious**" - that which does not allow the passage of moisture. While E3.3.3 and E3.3.6 require impervious surfaces about sanitary appliances/fixtures, the impervious performance criteria compliance covered in Page 11 mentions "No specific methods have been adopted for verifying compliance with the performance of NZBC E3." In summary, the Objective (3.1) and Functional requirement (3.2) of E3 is to prevent illness/injury or damage through accumulation of moisture, or damage caused by free water penetration.

This ISO test method is used internationally and has been independently performed in New Zealand. The result of this test verified that this product's assembled joint over a 24 hour period did not allow water penetration through to the substrate, or if tested at the edges where edge sealant has been applied.

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NZWTA
WOOL TESTING



NZWTA
TEXTILES AND
MATERIALS TESTING



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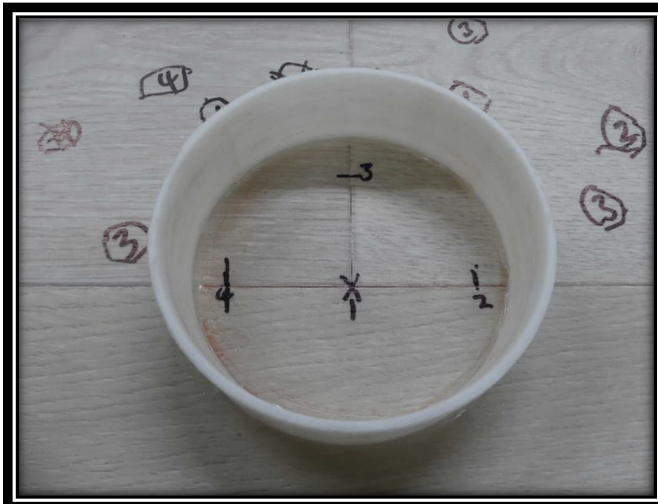
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After 24 hrs With Water



Wet Swell



Recovered Swell



Recovered Swell (Disassembled)

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