





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

No. 1519154.7

(Please quote this number in all correspondence)

CLIENT: Godfrey Hirst New Zealand Ltd.	SAMPLE RECEIVED FROM: Godfrey Hirst New Zealand Ltd.	Date Received:	20.6.24	
PO Box 97 145				
SAMC, Manukau	SAMPLE DESCRIPTION:			
Attn.: Marty Veele	Laminate flooring planks assembly with standard Arriba underlay attached o the bottom as a complete system: GH LAM AS1261X192 & AW1261X244 Code: 486159 & 486160			
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)			Rec	overed Swell (mm)
	Specimen 1	Specimen 2	Specimen 3	Specimen 1	Specimen 2	Specimen 3
Final Average Results (Positions 2 to 4)	0.08	0.07	0.12	0.01	0.01	0.03
Final Results (Position 1)	0.07	0.11	0.12	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 0NLY. This document shall not be reproduced except in full.

Key Technical Person







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SAMPLE RECEIVED FROM: Godfrey Hirst New Zealand Ltd.	Date Received:	20.6.24
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underlay attached o the bottom as a complete	system:	
GH LAM AS1261X192 & AW1261X244		
Code: 486159 & 486160		
	Godfrey Hirst New Zealand Ltd. SAMPLE DESCRIPTION: Laminate flooring planks assembly with standa underlay attached o the bottom as a complete GH LAM AS1261X192 & AW1261X244	Godfrey Hirst New Zealand Ltd. SAMPLE DESCRIPTION: Laminate flooring planks assembly with standard Arriba underlay attached o the bottom as a complete system: GH LAM AS1261X192 & AW1261X244

Client Order No.: 7000021230 Client Reference:

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	Yes	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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C Judan Key Technical Person





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Attn.: Marty Veele

CCREDITED

STING

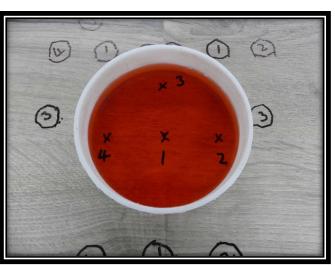
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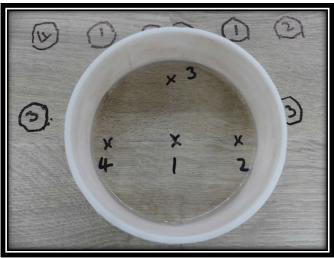
Client Order No.: 7000021230

Client Reference:

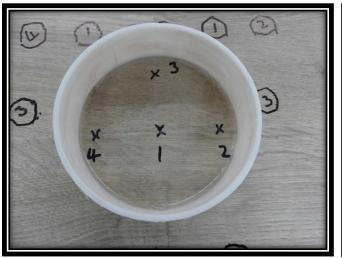




After 24 hrs With Water



Wet Swell



Recovered Swell

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Recovered Swell (Disassembled)

Judan C Key Technical Person







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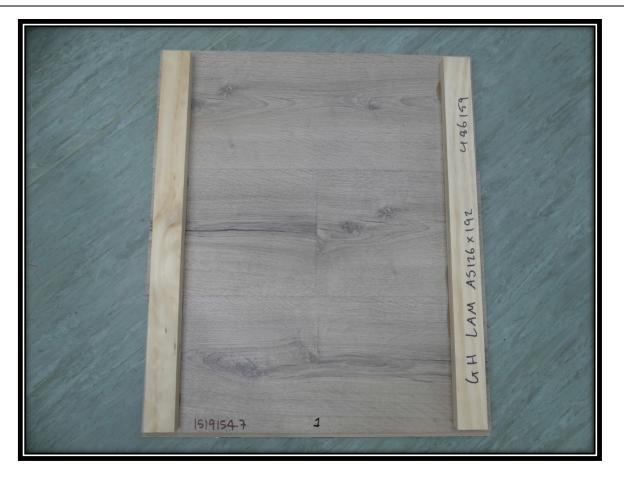
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Judan

Key Technical Person