

## No. 1466298.5

(Please quote this number in all correspondence)

CLIENT:  
Hurford Wholesale Ltd.  
50 Hull Road  
Mt Maunganui 3149.

SAMPLE RECEIVED FROM: Date Received: 03.07.23

Hurford Wholesale Ltd.

SAMPLE DESCRIPTION:

Flooring Planks – Genuine Oak planks fixed to a perspex base using Mapei Ultrabond Eco 995. D3 PVA adhesive was applied in the joints before being assembled by the client.

Attn.: Jeremy Clarke.

Client Reference: 1 of 3

Client Order No.:

### 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 placed on the outer corners of the test specimens to keep the samples flat throughout the test procedure.

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 230C, 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: 03.07.23

Note: D3 PVA adhesive was applied in the joints, fixed to Perspex using Mapei Ultrabond Eco 995 adhesive 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 (Positions 2 to 4)	*	0.14	0.01	*	0.10	0.03
Final average (Position 1)	*	0.04	0.11	*	0.04	0.08

\*Not measured – water leaked out of the ring

	Wet Swell			Recovered Swell		
	Specimen 1	Specimen 2	Specimen 3	Specimen 1	Specimen 2	Specimen 3
Qualitative Ratings (individual results):	5	1	1	*	1	1

"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 Marshall  
Key Technical Person

10/07/2023

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Attn.: Jerremy Clarke.

Client Reference: 2 of 3

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#### 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)

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


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

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24hrs with water Wet Swell



Wet Swell



Wet Swell after recovery



Disassembled after recovery

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