

## TEST CERTIFICATE No.: INZ77589-01

Client: Forté  
Order No.: 01980  
Sample Description: Timber Flooring  
Identification: Touge & Groove Joint profile- Plywood Core- Two Layer (Ranges: Atelier\ Ultra\ Smartfloor\ Artefact\ Villa\ Artiste Rustic\ Artiste Refined\ Indus\ Loft\ Artiste Grande)  
Material Specification: Not specified  
Tested in accordance with: ISO 4760:2022(E)

**Scope:** SGS was engaged to carry out topical moisture resistance testing on assembled flooring samples.

**Methodology:** Samples were assembled by the client by connecting the locking edge of the plank to form a "T joint" configuration, as per figure 3 of ISO 4760:2022(E) and supplied to SGS. The specimens were then conditioned at 23°C and 50% R.H for 24 h prior the surface swell test. A 100mm diameter plastic ring was glued over the inverted "T joint" with suitable sealant and a 1 kg weight placed on each corner of the test area. For each specimen, four initial height measurements were taken before water exposure. One measurement at the "T joint" position and three at the "line joint" positions. After the initial measurements were taken, 100ml of water with coloured food dye was exposed to the sealed area and allowed to stand for 24 h. The water was then removed, area patted dry and the wet swell measurement carried out within 15 min after 24 h of exposure. The specimens were allowed to stand for a further 24 h and the recovery swell measurement carried out within 15 min after 48 h of exposure.

### Results:

	Wet Swell(mm)	Recovery Swell(mm)
Final Avg. Thickness Swell (Pos 2-4)	0.07	0.02
Final Avg. Thickness Swell (Pos 1)	0.06	0.01
Final Avg. Qualitative Rating	1	1
Observations: No leaking was observed from the underside of the plank		
Disassembly observations: Can not be carried out due to the adhesive in the joint		

Qualitative Grade: 1 = No change 2 = Slight swelling 3 = Moderate 4 = Objectionable 5 = Failed test

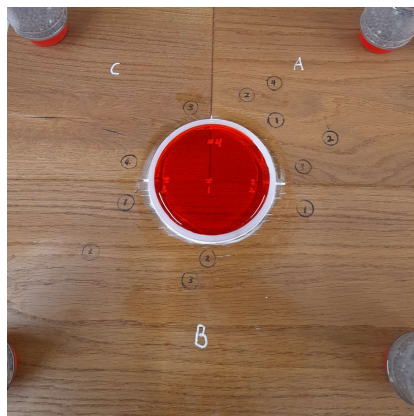


Fig. 1 Test setup

### Acceptance Criteria: Report findings

Tested by: C.Cheng	Reviewed By: Gijs Schoutens	Authorised By: Kelvin Chin
Date: 25-Jan-23	01-Feb-23	01-Feb-23 <i>Kelvin Chin</i>

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