



Test Report

No. VNHL2602004930HG-01

Date: April 03, 2026

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This report cancels and supersedes the report No. VNHL2602004930HG-01 dated March 24, 2026 issued by SGS Vietnam

HPLY VIETNAM COMPANY LIMITED.

TANG 5, SO 564 NGUYEN VAN CU, PHUONG BO DE, TP.HA NOI, VIET NAM

The following sample(s) was/were submitted and identified by the client as:

SGS Job No. : VNHL2602004930HG-01

Sample Description : TOP FORMPLY

Color : DARK BROWN

Characteristic : Acacia core Dynea PFS 135gsm Phenolic glue

Item/Style# : "FILM FACED PLYWOOD (VAN EP PHU PHIM)"

Date of Production : 11/2/2026

Country of Origin : VIETNAM

Country of Destination : EUROPEAN UNION, AUSTRALIA, AFRICA

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Sample Receiving Date : FEBRUARY 26, 2026

Final Confirmed Date : FEBRUARY 26, 2026

Testing Period : FEBRUARY 26, 2026 TO MARCH 24, 2026

Test Requested : PLEASE REFER TO THE RESULT SUMMARY

Test Results : PLEASE REFER TO NEXT PAGES

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**Test Report**

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Result Summary

:

Test Requested	Conclusion
Formaldehyde emission by chamber method	See Result
Density	See Result
Bending test	See Result
Swelling in thickness after immersion in water for 24 h	See Result
Resistance to surface wear	See Result
Bonding quality – As client's requirement	PASS

Signed for and on behalf of
SGS Vietnam LTD



Ung Thanh Van
Hardline SBU Manager

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Test Result(s):
Formaldehyde emission by chamber method

Test Method: With reference to BS EN 717-1:2004. Analysis was performed by UV-VIS.

Test Item	Result (mg/m ³)	Reporting Limit (mg/m ³)
	1	
Formaldehyde emission (in air)	ND	0.04

Sample Description:

1 BROWN COMPOSITE WOOD (PLYWOOD CORE) (18MM) WITH NON WOOD SURFACE

Note:

1. mg/m³ = milligram per cubic meter
2. ND = Not Detected
3. 0.1 mL/m³ = 0.124 mg/m³

Class E1 Requirement: ≤ 0.124 mg/m³ air
 Class E2 Requirement: > 0.124 mg/m³ air

Characteristic	Unit	Test method	Test result
			A
1. Density (*)	kg/m ³	BS EN 323 : 1993	670
2. Bending test (*) (a)			
• Bending strength	N/mm ²	BS EN 310 : 1993	40.5
• Modulus of elasticity in bending	N/mm ²		5234
3. Swelling in thickness after immersion in water for 24 h (*)	%	BS EN 317 : 1993	0.5
4. Resistance to surface wear			
• Mean value of initial wear point (IP)	revolutions	BS EN 438-2: 2016	270

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Characteristic	Test method	Test result		Remark
		A		
5. Bonding quality (*) (b) (Shear strength)	BS EN 314-2 : 1993 - Class 3 & BS EN 314-1 : 2004	Mean shear strength (f_v) (N/mm ²)	Mean apparent cohesive wood failure percentage (%)	
• Pre-treatment 5.1.1		1.31	15	Accept
• Pre-treatment 5.1.3		1.02	5	Accept
• Pre-treatment 5.1.4		1.03	5	Accept

Requirements: The relationship between the mean percentage of apparent cohesive wood failure and the mean shear strength given in Table 2 - BS EN 314-2 : 1993.

Mean shear strength f_v (N/mm ²)	Mean apparent cohesive wood failure w (%)
$0.2 \leq f_v < 0.4$	≥ 80
$0.4 \leq f_v < 0.6$	≥ 60
$0.6 \leq f_v < 1.0$	≥ 40
$1.0 \leq f_v$	no requirement

Sample description:

A TOP FORMPLY

- Note:
1. Lab environmental conditions: (20 ± 2) °C; (65 ± 5) %RH.
 2. (a) Span: 360 mm. Test speed: 15 mm/min.
 3. (b) Pre-treatments:
 - 5.1.1 Immersion for 24 h in water at (20 ± 3) °C.
 - 5.1.3 Immersion for 4 h in boiling water, then drying in the ventilated drying oven for 16 h to 20 h at (60 ± 3) °C, then immersion in boiling water for 4 h, followed by cooling in water at (20 ± 3) °C for at least 1 h.
 - 5.1.4 Immersion for (72 ± 1) h in boiling water, followed by cooling in water at (20 ± 3) °C for at least 1 h.

Remark: This / these test(s) (*) was / were accredited ISO 17025:2017 by VILAS.
The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012.

Test details of Bonding quality:
1. Immersion for 24 h in water at (20 ± 3) °C

Specimen No.	l_1	b_1	F	f_v	Wood failure
	(mm)	(mm)	(N)	(N/mm ²)	(%)
1	25.10	24.98	703.2	1.12	10
2	24.85	24.98	762.9	1.23	10
3	25.08	24.92	1476.1	2.36	10
4	25.18	25.22	1087.8	1.71	20
5	25.10	25.36	562.0	0.88	10
6	25.21	25.04	1031.3	1.63	20
7	25.17	24.98	846.9	1.35	10
8	25.38	25.14	365.5	0.57	20
9	25.28	25.12	747.5	1.18	20
10	25.16	24.89	688.3	1.10	20
Average	25.15	25.06	827.2	1.31	15

2. Immersion for 4 h in boiling water, then drying in the ventilated drying oven for 16 h to 20 h at (60 ± 3) °C, then immersion in boiling water for 4 h, followed by cooling in water at (20 ± 3) °C for at least 1 h

Specimen No.	l_1	b_1	F	f_v	Wood failure
	(mm)	(mm)	(N)	(N/mm ²)	(%)
1	25.18	24.98	468.7	0.75	0
2	25.45	25.16	670.9	1.05	20
3	25.13	25.21	459.1	0.73	0
4	25.09	25.17	523.4	0.83	0
5	25.22	25.10	878.1	1.39	0
6	25.30	25.14	462.4	0.73	10
7	25.10	25.36	578.3	0.91	0
8	25.27	25.14	1043.1	1.64	10
9	25.10	25.36	543.5	0.85	10
10	25.17	25.01	829.1	1.32	10
Average	25.20	25.16	645.7	1.02	5

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3. Immersion for (72 ± 1) h in boiling water, followed by cooling in water at (20 ± 3) °C for at least 1 h

Specimen No.	l_1	b_1	F	f_v	Wood failure
	(mm)	(mm)	(N)	(N/mm ²)	(%)
1	25.31	24.98	403.8	0.64	10
2	25.40	25.11	613.9	0.96	0
3	25.02	24.99	685.8	1.10	10
4	24.99	25.06	455.6	0.73	0
5	25.03	25.11	447.1	0.71	20
6	25.17	25.10	720.2	1.14	10
7	25.17	24.89	793.3	1.27	0
8	24.92	24.88	900.3	1.45	0
9	25.45	25.38	695.0	1.08	10
10	25.14	25.04	734.9	1.17	0
Average	25.16	25.05	645.0	1.03	5

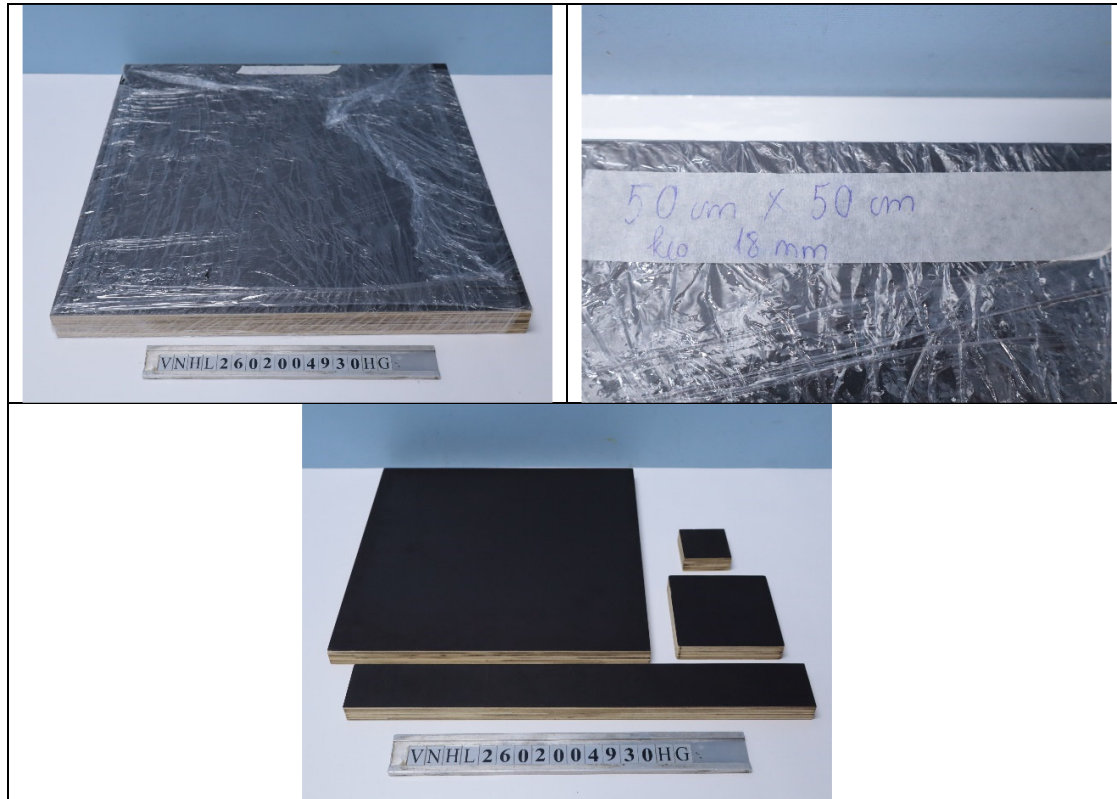
Note: Note: l_1 : shear length; b_1 : shear width; F : breaking force; f_v : shear strength.

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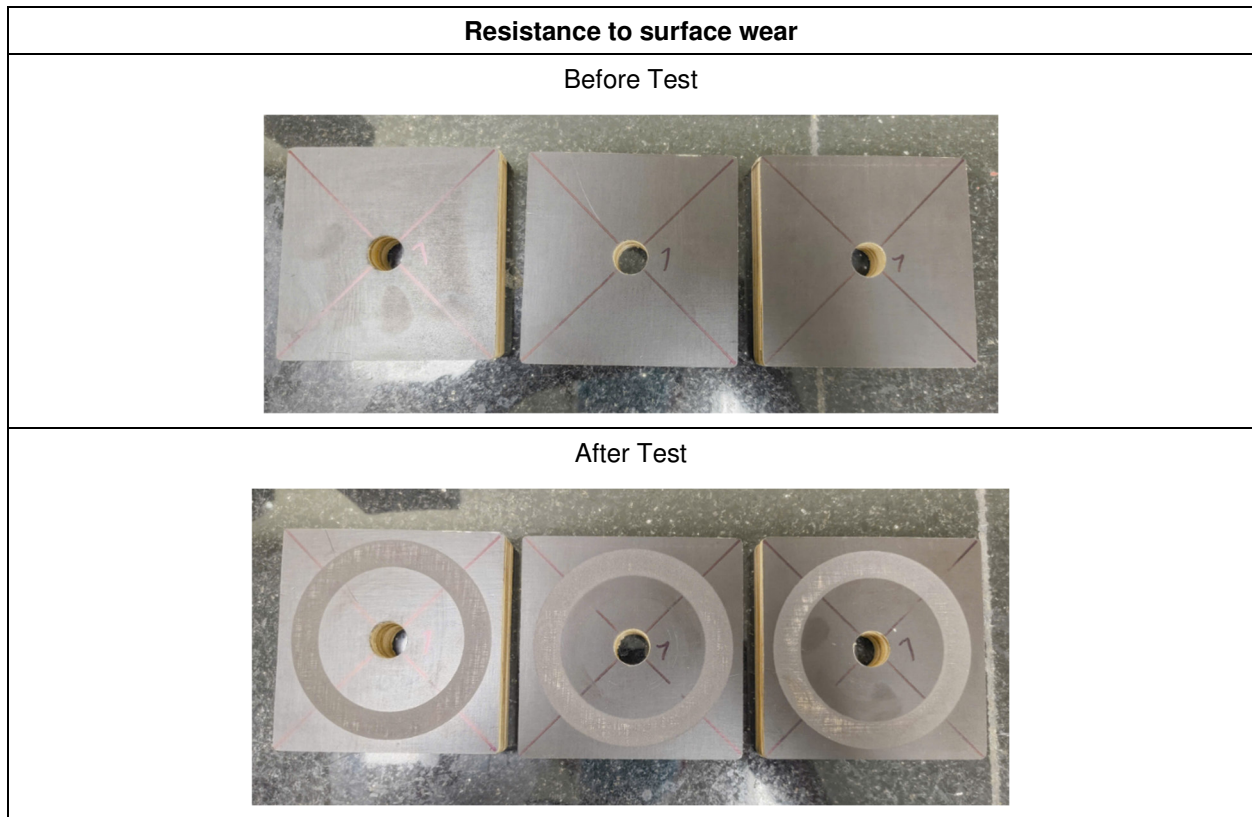
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PHOTO OF SUBMITTED SAMPLE FOR TESTING



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REPORT RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
*** End of Report ***

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