



**INSTITUT PENYELIDIKAN PERHUTANAN MALAYSIA**

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Your Ref:

Our Ref: FRIM(S).600-5/6/10Klt.19(32)

Date: 12 July 2022

**CONFIDENTIAL**

**Hyperack Sdn Bhd**

No. 40G & MF, Lintang Gelugor,  
Off Persiaran Sultan Ibrahim,  
41300 Klang, Selangor

(Attn: Ms. Nana)

**Sir,**

**TEST REPORT: FORMALDEHYDE EMISSION TESTING-JN133/22**

*(Amendment to the test report FRIM(S).600-5/6/10Klt 19(13) dated 5 July 2022).*

Amendment to the test report FRIM(S).600-5/6/10Klt 19(13) dated 5<sup>th</sup> July 2022 has been made in sample description by changing the type of board from MDF to HDF.

Thank you

Your sincerely,

(.....)

**DR. SUFFIAN MISRAN**

On behalf of  
Director General FRIM

**CONFIDENTIAL**



SAMM 154

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### TEST REPORT

Job No.: 133/22	Page 1 of 2
This report consists pages	

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#### CUSTOMER

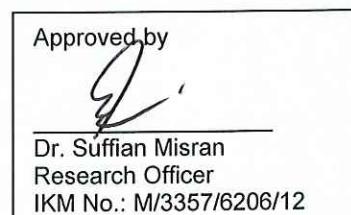
Name and Address : Hyperack Sdn Bhd  
No. 40G & MF, Lintang Gelugor,  
Off Persiaran Sultan Ibrahim,  
41300 Klang, Selangor

#### SAMPLE DESCRIPTION

WCTL serial number : 2690622 - 2700622  
\*Sample Identity : A) E1 18mm  
B) E2 18mm  
\*Manufacturer & place : -  
\*Lot number : -  
\*Type of board : HDF  
Thickness (mm) : 18mm  
\*Density (kg/m<sup>3</sup>) : -  
Cut-off location of test specimen : Cut out from central part in parallel to the longitudinal direction of a products  
\*Storage condition after manufacture : -  
\*Sampling method & date : -  
\*Place and conditioning of sampling of test specimens from factory : -  
\*Provided by customer : -  
Note: The remaining samples will be disposed after testing has been carried out.

#### TEST PERFORMED

Tested for : Formaldehyde determination  
Standard Method : JIS A 1460-Determination of the emission of formaldehyde from building boards-Desiccator method  
Name of test body : FRIM  
Conditioning of test samples : June 16 – 23, 2022  
Date of samples tested : June 23 – 24, 2022



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**TEST REPORT**

Job No.: 133/22	Page 2 of 2
This report consists of 2 pages	

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**TEST RESULT**

No. of test specimen : 1  
No. of replicate : 2  
Conditioning test specimen : 20.6°C & 60%  
(Temperature & Humidity)  
Duration of conditioning specimen : 7 days  
Temperature and humidity at test place : 19.9°C  
Person in charge of testing : Azlina Azit  
Background value : Below 0.1 mg/L  
Test duration : 24h

**Formaldehyde Emission (desiccator method) :**

Sample ID	Formaldehyde concentration obtained	
	Individual value (mg/l)	Mean value (mg/l)
E1	0.3	0.3
E2	4.3	4.2

Approved by  
  
Dr. Suffian Misran  
Research Officer  
IKM No.: M/3357/6206/12

-----END OF REPORT-----

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