



KEMENTERIAN KEHUTANAN
PUSAT PENGEMBANGAN HUTAN BERKELANJUTAN

Jl. Gunung Batu 5 Bogor 16610, Telp: (0251) 8633378

To:

Runi
CV. Kharisma Duta Utama
Jl. Mayjend Sungkono No. 53 Gresik
East Java Province

TEST REPORT

Reply to your letter /
Request date : March, 24th 2025

Number : 45/LHU/ P2HB/3/2025

Analysis Number : 111-112/ P2HB/3/2025

Serial Number : P2HB-045

Page : 1 of 2

Date issued : March, 26th 2025

The undersigned explains that the testing of

Sample : Merbau TMT - Heimu

Test Parameters : Modulus of elasticity (MOE), Modulus of rupture (MOR) and Hardness

Condition of sample : Good

Date of sample received : March 24th, 2025

Date of analysis : March 25th, 2025

Results are as follows : Results attached

THESE TEST RESULTS ARE NOT TO BE
DUPLICATED AND APPLY ONLY TO THE
SAMPLE(S) MENTIONED ABOVE.



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TEST RESULTS

Serial Number: P2HB-045 Number : 45/LHU/ P2HB/3/2025
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| No./Sample/Code | Result | Testing Method |
|--------------------------------|---|-----------------|
| 111. Merbau TMT - Heimu (KMB1) | Side Hardness : 46.29 MPa End Hardness : 70.90 MPa | In-house Method |
| 112. Merbau TMT - Heimu (KMB2) | MOE : 18,318.36 MPa MOR : 140.6 MPa | In-house Method |

Note:
The sample split during Hardness test

Center for Sustainable Forest Development

Head of Sub Division Administration

Head of Laboratory



(Signature)
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(Signature)

(Dr. Sukadaryati S.Hut, M.P.)
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