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DAFTAR PUSTAKA

[KLHK] Direktorat Jenderal Planologi Kehutanan dan Tata Lingkungan. SP. 062/HUMAS/PP/HMS.3/3/2021. Jakarta. 3 Maret 2021

Agoes, H.F., Irawan, F.A., & Marlianisya, R. 2018. Interpretasi Citra Digital Pengindraan Jauh untuk Pembuatan Peta Lahan Sawah dan Estimasi Hasil Panen Padi. Jurnal Informasi Teknik dan Niaga. 18(1): 1-66.

American Society for Testing and Materials. 2020. Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials. Annual Book of ASTM Standard. ASTM D 1037.

Bodig, J., & dan Jayne, B. A. 1982. Mechanics of Wood and Wood Composites. Van Nostrand Reinhold.

Bowyer, J.L., Haygreen J.G., & Shmulsky, R. 2007. Forest Products and Wood Science: An Introduction. Wiley-Blackwell. New Jersey.

British Standards Institution. 1957. BS 373: Methods of Testing Small Clear Specimens of Timber.

Correal, J. F., & Arbelaez, C. 2010. Influence of preservative treatment and adhesive type on the mechanical properties of laminated Guadua bamboo. Journal of Materials in Civil Engineering, 22(12), 1357–1364.

Fakhri. 2002. Kemampuan Perekat Resin Urea Formaldehyde Pada Laminasi Kayu Sengon dan Keruing. Jurnal Sains dan Teknologi Universitas Riau.

Farrelly, D. 1984. The Book of Bamboo. Sierra Club Books. ISBN 087156825X.

Frihart, C. R., & Hunt, C. G. 2010. Adhesives with wood materials: Bond formation and performance. In Wood handbook: Wood as an engineering material. USDA Forest Service.

Green Work Realty. 2007. Bamboo Floors. The Green Door, Seattle.

Gusmawati, E. 2018. Sifat Fisika dan Mekanika Papan Laminasi Berdasarkan Warna Bidang Orientasi Kayu. Universitas Mataram.

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Haygreen, J. G., & Bowyer, J. L. 1996. Forest Products and Wood Science: An Introduction.

Hesse, W. 1991. *"Phenolic Resin"* dalam Ulmann's Encyclopedia of Industrial Chemistry, Vol. 19 Edisi 5, VCH Publishers, New York.

ISO 3133:1975. Wood — Determination of Ultimate Strength in Static Bending.

ISO. 1975. ISO 3349: Wood – Determination of Modulus of Elasticity in Static Bending.

Janssen, J.J.A. 2000. Designing and Building with Bamboo: Technical Report No.20. International Network for Bamboo and Rattan.

Karyadi, Dewi, S.M., & Soehardjono, A. 2014. *A comparison of shear strength of box-section beam made of sliced-laminated dendrocalamusasper under torsion and transversal load*. Procedia Engineering, 95(Scescm), 38-42. https://doi.org/10.1016/j.proeng.2014.12.163

Kasmudjo & Suryani S. 2013. Pengaruh Perbedaan Jenis dan Bagian Batang Bambu terhadap Kualitas Bahan Mebel dan Kerajinan. Prosiding 93 Seminar Nasional Masyarakat Peneliti Kayu Indonesia (MAPEKI) XVI. Pp 35-43.

Kelly, M. W. 1977. Critical Literature Review of Relationships Between Processing Parameters and Physical Properties of Particleboard.

Lee, A.W.C. & Liu, Y. 2003. Selected Physical Properties of Commercial Bamboo Flooring. Forest Products Journal Vol.53 (6): 23-26.

Li, Q., Wang, Q., & Ren, H. 2018. Manufacture and mechanical properties of bamboo scrimber with epoxy resin. International Journal of Polymer Science, 2018.

Liese, W. 1985. Bamboos: Biology, Silvics, Properties, Utilization

Liese, W. & Weiner, G. 1996. Ageing of bamboo culms. Wood Science and Technology 30(2): 77-89

Liese, W., & Kohl, M. 2015. Bamboo: The plant and its uses. Springer.

UNIVERSITAS
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Maloney, T. M. 1993. Modern Particleboard and Dry-Process Fiberboard Manufacturing.

Manik, P., Hartono, Y., & Fredits A. S. 2017. Pengaruh Susunan dan Ukuran Bilah Bambu Betung *(Dendrocalamus asper)* dan Bambu Apus *(Gigantochloa apus*) Terhadap Kekuatan Tarik, Kekuatan Tekan dan Kekuatan Lentur untuk Komponen Konstruksi Kapal. Jurnal Ilmu Pengetahuan dan Teknologi Kelautan Vol. 14 (3): 94-101.

Marra, A. A. 1992. Technology of Wood Bonding: Principles in practice. Alan A. Publication

Mohinderu, K., Sriram Aelati, & Saahastaranshu R. Bhardwaj. 2026. Engineered Laminated Bamboo for Structural Applications. Materials, 7(2), 24.

Mujiman, P.H., Sulistyo, D., & Prayitno, T.A. 2014. Influence of shape and dimensions of lamina on shear and bending strength of vertically glue laminated bamboo beam. In Procedia Engineering, 95, 22-30. https://doi.org/10.1016/j.proeng.2014.12.161

Pizzi, A. 2003. Wood adhesives: Chemistry and technology. CRC Press.

Salam, K., & Pongen, Z. 2008. Hand Book on Bamboo. (S.K. Sharma, Ed.). New Delhi: National bamboo Mission Ministry of Agriculture, Government India dan Cane and Bamboo Technology Centre.

Sewar, Y., Mugahed Amran, Siva Avudaiappan, Yaser Gamil, & Raizal SM Rashid. 2024. Bonding strength performance of bamboo-based composite materials: A review. Heliyon, 10, e281866.

Sharma, B., Gatoo, A., Bock, M., & Ramage, M. 2015. Enginered bamboo for structural applications. Journal of Construction and Building Materials, 81, 66-73.

Skaar, C. 1988. Wood-Water Relations. Springer-Verlag.

UNIVERSITAS
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Sylvayanti, S.P., Nugroho, N., & Bahtiar, E.T. 2023. Bamboo Scrimber's Physical and Mechanical Properties in Comparison to Four Structural Timber Species. *Forests 2023, 14, 146*. https://doi.org/10.3390/f14010146

Sulastiningsih, I. M. & Santosi, Adi. 2012. Pengaruh Jenis Bambu, Waktu Kempa, dan Perlakuan Pendahuluan Bilah Bambu Terhadap Sifat Papan Bambu Lamina. Jurnal Penelitian Hasil Hutan, 30(3) : 198-206.

Tsoumis, G. 1991. Science and Technology of Wood.

United States Department of Agriculture, 2018. Classification for Kingdom Plantae Down to Species Dendrocalamus asper (Schult. f.) Backer ex Heyne. URL:https://plants.usda.gov/java/ClassificationServlet?source=profile&symbol=DEAS&display=31. Tanggal akses: 11 Juli 2023.

Wang, Y., Li, Y., & Li, J. 2016. Mechanical and physical properties of bamboo scrimber. BioResources, 11(2), 4423-4433.

Wulandari, F. T. 2022. Analisis Perbandingan Sifat Fisika dan Mekanika Papan Laminasi Kayu Jati Putih *(Gmelina Arborea Roxb*) dan Papan *Laminasi* Bambu Betung *(Dendrocalamus asper).* Jurnal Daun, 9(2) : 67-75.

Wulandari, F. T. 2022. Pengaruh Berat Labur Perekat Terhadap Sifat Fisika dan Mekanika Papan Laminasi Jati Putih *(Gmelina Arborea Roxb).* Jurnal Media Bina Ilmiah, 16(9).