DAFTAR PUSTAKA

Aloisio, A., Pasca, D.P., Fragiacomo, M., 2025. Fire resistance of wooden dowelled cross-laminated timber panels under in-plane loading. Eng Struct 340. https://doi.org/10.1016/j.engstruct.2025.120592

Bartlett, A.I., Hadden, R.M., Bisby, L.A., 2019. A Review of Factors Affecting the Burning Behaviour of Wood for Application to Tall Timber Construction. Fire Technol. https://doi.org/10.1007/s10694-018-0787-y

Dassault Systèmes Simulia Corp., 2023. Abaqus/CAE User's Guide.

European Committee for Standardization (CEN), 2004. Eurocode 5: Design of timber structures - Part 1-2: General - Structural fire design.

Flity, H., Terrei, L., Acem, Z., Parent, G., 2025. Study of heat transfer in wood before the onset of pyrolysis at the cone calorimeter scale. International Journal of Thermal Sciences 210. https://doi.org/10.1016/j.ijthermalsci.2024.109545

Forest Products Laboratory, 2010. Wood Handbook, Wood as an Engineering Material.

Francis, L., Kueh, A.B.H., Bhkari, N.M., Azlan, H.M., Ahmad, Z., 2025. Development of Finite Element Model for *Charring* Rate. https://doi.org/10.15376/biores.20.3.7695-7712

Gérard, Jean., Guibal, Daniel., Paradis, S., Cerre, J.-Claude., 2017. Tropical Timber Atlas : Technological *char*acteristics and uses. Éditions Quæ.

Hopkin, D., Węgrzyński, W., Gorska, C., Spearpoint, M., Bielawski, J., Krenn, H., Sleik, T., Blondeau, R., Stapf, G., 2024. Full-Scale Fire Experiments on Cross-Laminated Timber Residential Enclosures Featuring Different Lining Protection Configurations. Fire Technol 60, 3771–3803. https://doi.org/10.1007/s10694-024-01581-1

Hu, Y.-P., Li, W.-B., Wu, S., Wang, Y.-J., Zhong, W.-Z., Zhang, H., 2023. Experimental Study of the Anisotropic Thermal Conductivity of Spruce Wood. https://doi.org/10.21203/rs.3.rs-2929581/v1

ISO, 1999. ISO 834-1:1999: Fire-resistance tests — Elements of building construction — Part 1: General requirements 1999.

Kamenická, Z., Sandanus, J., Cabová, K., Antonín, F., Wald, E., 2018. Methods for determining the *charring* rate of timber and their mutual comparison.

Khelifa, M., Thi, V.D., Oudjène, M., Khennane, A., El Ganaoui, M., Rogaume, Y., 2024. Modelling the Response of Timber Beams Under Fire. International Journal of Civil Engineering 22, 1537–1549. https://doi.org/10.1007/s40999-024-00973-2

Listyanto, T., Aji Pratama, A., Ando, K., Hattori, N., 2020. Improving Fire Resistance of Mahogany (Swietenia macrophylla) Wood Impregnated with Mixture of Borax and Boric Acid. Wood Research Journal 11, 48–52. https://doi.org/10.51850/wrj.2020.11.2.48-52

Maharjan, S., Gunawardena, T., Mendis, P., 2025. Review of Experimental Testing and Fire Performance of Mass Timber Structures. Journal of Composites Science. https://doi.org/10.3390/jcs9060290

Majedi, F., Wijayanti, W., Hamidi, N., 2015. Parameter Kinetik *Char* Hasil Pirolisis Serbuk Kayu Mahoni (Switenia Macrophylla) dengan Variasi Heating Rate dan Temperatur. Jurnal Rekayasa Mesin 6, 1–7.

Mensah, R.A., Jiang, L., Renner, J.S., Xu, Q., 2022. *Char*acterisation of the fire behaviour of wood: From pyrolysis to fire retardant mechanisms. J Therm Anal Calorim 148, 1407–1422. https://doi.org/10.1007/s10973-022-11442-0

Mikkola, E., 1991. *Charring* Of Wood Based Materials. Fire Safety Science 3, 547–556. https://doi.org/10.3801/iafss.fss.3-547

Mundin, M.A.M., Acda, M.N., 2025. Thermal Conductivity of Plantation Wood Species and Selected Tropical Hardwoods from the Philippines. https://doi.org/10.15376/biores.20.3.6877-6886

Perković, N., Skejić, D., Rajčić, V., 2024. Numerical Analysis of Fire Resistance in Cross-Laminated Timber (CLT) Constructions Using CFD: Implications for Structural Integrity and Fire Protection. Forests 15. https://doi.org/10.3390/f15112046

Poespowati, T., 2008. An Experimental Study on Autoignition of Wood. Recent Advances in Technologies 55–58. https://doi.org/10.5772/7398

Seyedrazavi, S., Viau, C., 2025. Post-fire structural performance of glued-laminated timber columns subjected to real fires. Structures 75. https://doi.org/10.1016/j.istruc.2025.108772

Shabanian, M., Braxtan, N.L., 2023. Thermo-mechanical behavior of CLT beam-to-girder assemblies connected with T-shaped dowelled connections before, during and after fire exposure. Journal of Structural Fire Engineering 14, 385–402. https://doi.org/10.1108/JSFE-04-2022-0015

Shi, L., Chew, M.Y.L., 2021. A review of thermal properties of timber and *char* at elevated temperatures. Indoor and Built Environment 32, 9–24. https://doi.org/10.1177/1420326X211035557

Shnal, T., Pozdieiev, S., Sidnei, S., Shvydenko, A., 2021. Determination of the *Charring* Rate of Timber to Estimate the Fire Resistance of Structures at Real Temperature Modes of Fires, dalam: Lecture Notes in Civil Engineering. Springer, hlm. 409–418. https://doi.org/10.1007/978-3-030-57340-9_50

EN 338, 2016. Structural timber – Strength classes. European Committee for Standardization (CEN).

Špilák, D., Majlingová, A., Kačíková, D., Tischler, P., 2022. Determining the *Char*red Layer of Wooden Beams with Finite Element Analysis Based on Enthalpy Approach. Buildings 12. https://doi.org/10.3390/buildings12070875

Spörri, S., Karannagodage, C., Schmid, J., Frangi, A., 2023. Numerical Simulation of Fires With Exposed Timber. 13th World Conference on Timber Engineering, WCTE 2023 3, 1728–1737. https://doi.org/10.52202/069179-0231

Šulc, S., Šmilauer, V., Wald, F., 2021. Thermal model for timber fire exposure with moving boundary. Materials 14, 1–10. https://doi.org/10.3390/ma14030574

Vairo, M., Pignatta Silva, V., Hideyoshi Icimoto, F., 2023. Behavior of cross-laminated timber panels during and after an ISO-fire: An experimental analysis. Results in Engineering 17. https://doi.org/10.1016/j.rineng.2023.100878

Wiesner, F., Hadden, R., Deeny, S., Bisby, L., 2022. Structural fire engineering considerations for cross-laminated timber walls. Constr Build Mater 323. https://doi.org/10.1016/j.conbuildmat.2022.126605

Xing, Z., Zhang, J., Zheng, C., Lu, C., 2022. Experimental study and finite element analysis on residual carrying capacity of CLT wall-floor angle bracket connections after fire. Constr Build Mater 328. https://doi.org/10.1016/j.conbuildmat.2022.127113

Ye, Q., Gong, Y., Ren, H., Peng, L., Zhang, H., 2023. Theoretical, numerical and experimental studies on thermal insulation performance of different cross laminated timber walls. Journal of Building Engineering 72. https://doi.org/10.1016/j.jobe.2023.106640

Zhang, J., Qu, L., Wang, Z., Zhao, Z., He, Z., Yi, S., 2017. Simulation and validation of heat transfer during wood heat treatment process. Results Phys 7, 3806–3812. https://doi.org/10.1016/j.rinp.2017.09.046