

Template for Preparing Article for Civil Engineering Dimension Petra Christian University

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Abstract

The abstract, approximately 150 words in length, should provide a concise summary of the research. It must highlight the current state of knowledge, identify the research gap, state the research objective, outline the methodology, summarize key findings, and present the main conclusions. As a standalone document, separate from the article, the abstract should effectively capture the essence of the study. Avoid references; if essential, cite author(s) and year(s). Limit abbreviations, and if used, define them upon first mention. This ensures clarity and enhances its utility in information retrieval systems.

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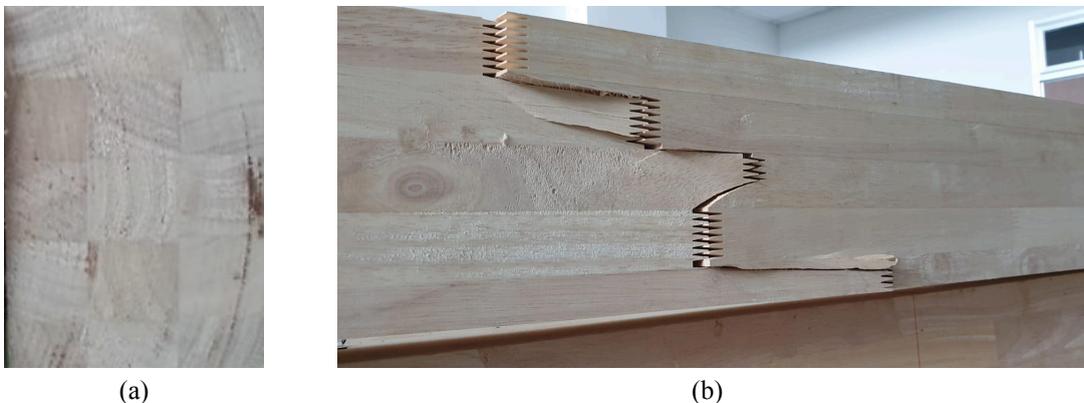


Figure 1. (a) FJLB Beam Cross-section and (b) Finger Joint along the Longitudinal Axis

RESULTS AND DISCUSSION

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The Results and Discussion section should present the key findings of the study in a clear and logical sequence, supported by appropriate figures and tables. The results should be objectively described and then critically discussed by relating them to the stated objectives, underlying mechanisms, and relevant previous studies. Authors should explain the significance of the findings, highlight trends and unexpected observations, and discuss limitations or sources of uncertainty where appropriate. This section should focus on interpretation and engineering relevance, avoiding repetition of methodological details and deferring final conclusions to the concluding section. Upon acceptance, the manuscript will undergo a comprehensive editorial process, including professional copy-editing, English language editing, author proofreading, final corrections, pagination, and publication on the Civil Engineering Dimension (CED) website on <https://ced.petra.ac.id>.

Table 1. Mechanical Properties of FJLB [8,12]

Properties	Symbol	Value
Modulus of elasticity in tension (MPa)	E_t	10026.20
Modulus of elasticity in compression (MPa)	E_c	2640.30
Modulus of elasticity in bending (MPa)	E_b	7742.72
Compressive strength parallel-to-the-grain (MPa)	σ_{e11}	44.18
Tension strength parallel-to-the-grain (MPa)	σ_{t11}	80.50
Compressive strength perpendicular-to-the-grain (MPa)	σ_{u22}	11.24
Tension strength perpendicular-to-the-grain (MPa)	σ_{u22}	4.23
Shear strength (MPa)	τ_{12}	9.43
Shear modulus (MPa)	G_t	1077.60
Poisson's ratio	ν_{12}	0.23
Poisson's ratio	ν_{21}	0.05
Density (gr/mm ³)	ρ	0.63

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CONCLUSIONS

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The Conclusions section should concisely summarize the main findings of the study in relation to the stated objectives, without repeating detailed results or discussion. It should highlight the key contributions and implications of the work for engineering practice and/or theory, and, where appropriate, acknowledge the main limitations of the study. Authors may also briefly indicate potential directions for future research or practical application. No new data, analysis, or references should be introduced in this section.

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