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Email Address: address_email@ac.id (Correspondence)

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*Corresponding Author, Received: 00 Sept. 2019, Revised: 00 Sept. 2018, Accepted: 00 Sept. 2019

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Keywords: Kajang House, Earthquake Resistant, Vernacular Construction, Local Materials, Wooden Structure

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Table 1. Sound Speed in Air

Temperature (°C)	Sound Speed (m/s)
0	331,3
15	340
20	255
21	275
22	275
23	276
24	278
24	279
25	273
26	347

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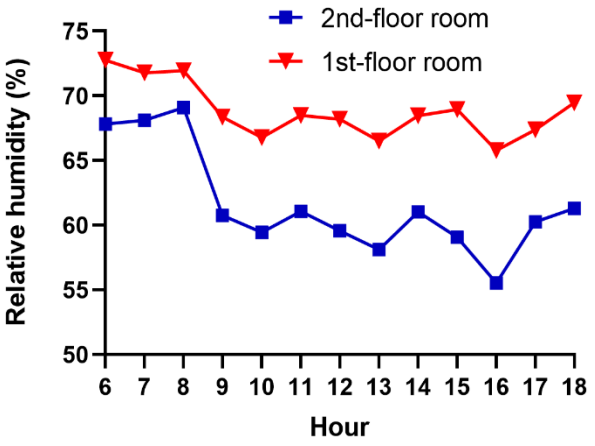


Figure 1 Temperature Graphic
Source: Author's Data Processing (2026)

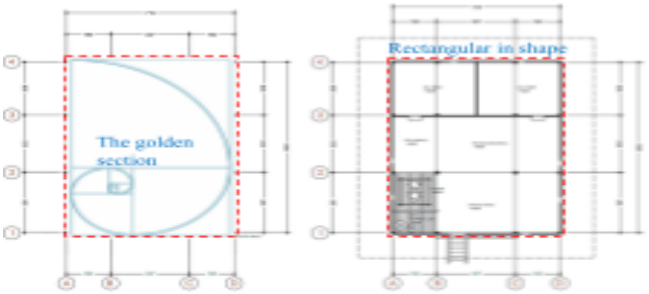


Figure 2. *Siring's* Ground Floor Plan (3a) and *Kale Balla's* First Floor Plan (3b)
Source: Results of Analysis (in AutoCAD)

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$$S = v\,x\,t \quad (1)$$

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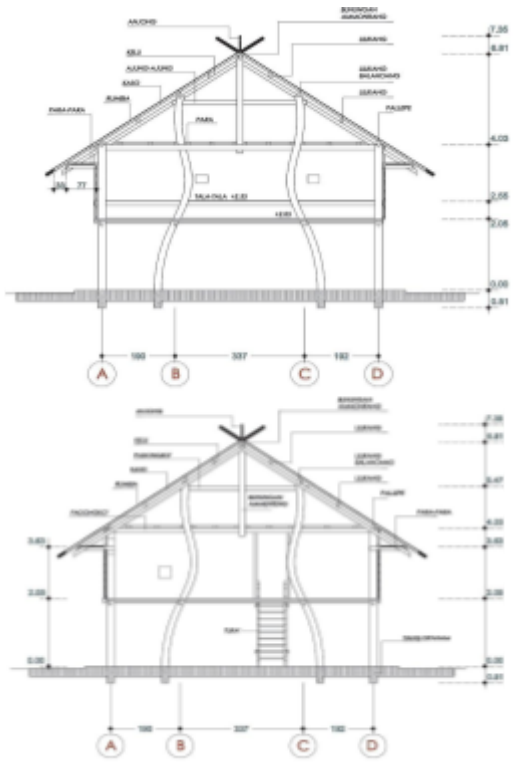


Figure 3. View of a Section of the Kajang House
Source: Results of Analysis (in AutoCAD)

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The authors used generative artificial intelligence tools during manuscript preparation to assist with language editing, structural refinement, and improved graphical presentation. The authors reviewed and verified all scientific content, numerical results, interpretations, references, and final revisions. The authors take full responsibility for the accuracy, integrity, and originality of the [illegible]hed work.

04

AUTHOR CONTRIBUTION STATEMENT

First Author's Name contributed to conceptualization, methodology, investigation, data collection, formal analysis, visualization, and preparation of the original manuscript draft. Second Author's Name contributed to supervision, validation, interpretation of the findings, and critical review and editing of the manuscript. Third Author's Name contributed to supervision, validation, interpretation of the findings, and critical review and editing of the manuscript. All authors reviewed and approved the final version of the manuscript and agreed to be accountable for the work.

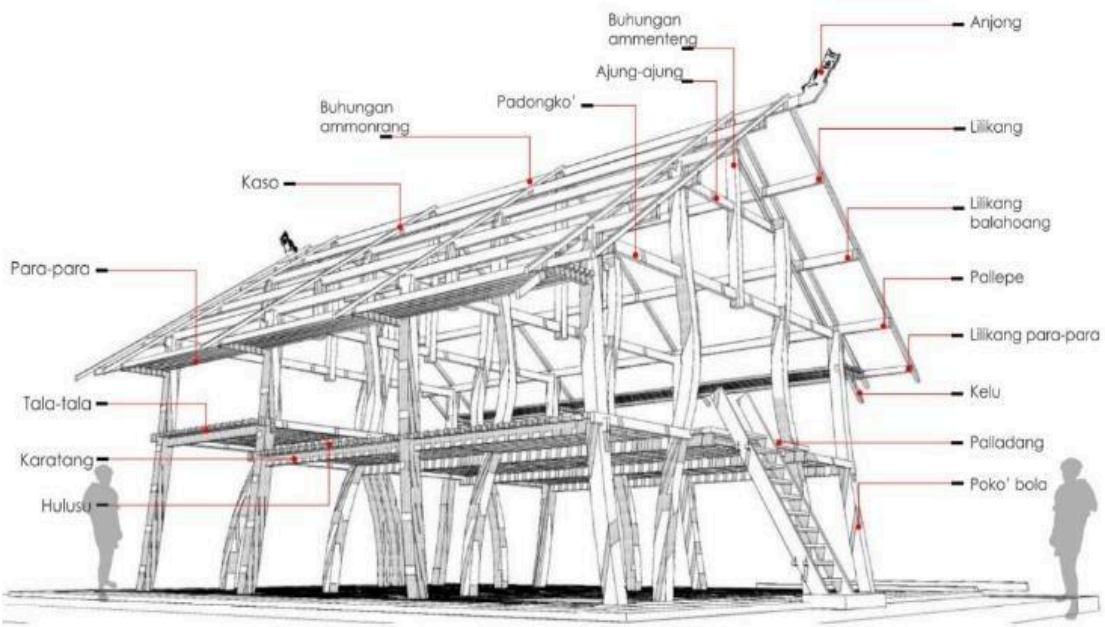


Figure 4. Structure and Construction of the Kajang House Depicted in Perspective
Source: Results of Analysis (in ArchiCAD)

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CONFLICT OF INTEREST STATEMENT

The authors declare that they have no known financial or non-financial conflicts of interest that could have influenced the research reported in this article.

DATA AVAILABILITY STATEMENT

The corresponding author can provide the data supporting this study's findings upon reasonable request. Any data shared will be anonymized and subject to applicable confidentiality and institutional requirements.

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