**Lessons learned from Vernacular architecture: Comparative analysis of thermal comfort of a traditional rammed earth dwelling in Ha Giang Province, Vietnam and the local architect’s adaptation.**

Mai Quoc Buu1 , Nguyen Le Thao Nguyen 1,\*

*1* *Department of Architecture, Van Lang University, Vietnam*

*\*Corresponding author:* [*nguyen.nlt@vlu.edu.vn*](mailto:nguyen.nlt@vlu.edu.vn) *,* [*buu.mq@vlu.edu.vn*](mailto:buu.mq@vlu.edu.vn)

**Abstract.** The potential of vernacular architecture studies is suggested to be more explicitly acknowledged in research and academia field. Additionally, there has been an increased attention among professional practitioners who delve into vernacular architecture in order to address environmental, economic and social challenges in a sustainable way. This paper aims to contribute to the abovementioned theme by comparing the traditional Vietnamese vernacular rammed-earth dwellings, or so-called Nhà trình tường and its’ contemporary version designed by the architects as the main topics of research in terms of building envelope analysis, thermal performance and thermal comfort. The comparative analysis shows that the present-day vernacular building, which endures a continuous process of trial and error is a successful and sustainably developed version of its’ precedent.

**Keywords:** Thermal performance, building envelope analysis, thermal comfort, vernacular architecture in Vietnam, nhà trình tường