THE BEHAVIOR OF CLT PANEL SUBJECTED TO BLAST LOADING

Abstract:
The use of crossed laminated timber (CLT) in civil structures has been increasing due to the increasing demands for environmental sustainability and eco-friendly materials. CLT is widely used because it is not only lightweight and high strength but also has low greenhouse gas emissions compared to other traditional construction material such as concrete. Several static tests were conducted to investigate the behavior of CLT under static loading. However, the number of study on the dynamic behavior of CLT is limited. This research conducted blast loading experiments on CLT panels to study the difference between high and low strain rate behavior of CLT panels.

Discipline: Civil Engineering

Author: Van Tu Le (Tu Le)
Email: vle3@student.unimelb.edu.au
Supervisors: Prof. Tuan Ngo / Dr. Abdallah Ghazlan
Discipline: Civil Engineering