



WORKSHOP Design of Vibration Resistant CLT Floors

Friday 08-Dec-2023

Faculty of Civil Engineering, University of Belgrade – Room 141

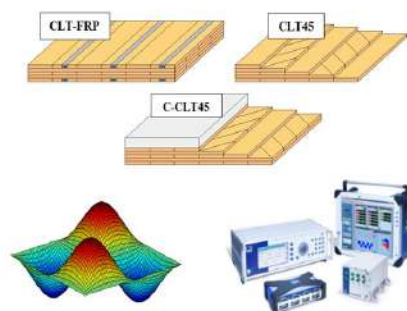
Towards Sustainable Buildings: Novel Strategies for the Design of Vibration Resistant Cross – Laminated Timber Floors

SUBSTRATE4CLT PROJECT

Carbon emission in civil engineering can be drastically reduced by using wood. Recent technological advances and new construction techniques have led to the development of new natural composite material called cross-laminated timber (CLT), a compelling alternative to the concrete and steel, providing a low carbon footprint.

Substrate4CLT aims to deliver sustainable and cost-effective solution for vibration resistant CLT floors primarily designed for large open-floor areas in commercial buildings. This will be achieved by:

- proposing novel strengthening methods of CLT floors;
- providing scientifically supported information on their dynamic performance through numerical and experimental simulations by using a unique walking and jumping force models;
- developing vibration-based methods and tools for their implementation in the design and construction.



WORKSHOP PROGRAMME

09:30-10:00 Registration

10:00-11:40 Part 1

10:00-10:20	Welcome Speech	<i>GRF-BG Dean, Science Fund Representative</i>
10:20-10:40	Substrate4CLT - Project Overview	<i>Assoc. Prof. Dr Marija Nefovska-Danilović</i>
10:40-11:00	Introduction to CLT	<i>Assoc. Prof. Dr Ivan Glišović</i>
11:00-11:20	Human-Induced Vibration of CLT Floors	<i>Assoc. Prof. Dr Vitomir Racić</i>
11:20-11:40	Q&A Session	

11:40-12:00 Coffee Break

12:00-13:30 Part 2

12:00-12:30	Overview of Residential-Business-Industrial Buildings Designed in CLT	<i>Assist. Prof. Dr Radovan Cvetković</i>
12:30-13:00	CLT Structural Design in Practice	<i>Acetra – CEO Dušan Milutinović</i>
13:00-13:30	Panel and Final Discussion	

13:30-14:15 Cocktail

PROJECT PARTICIPANTS



University of Belgrade
Faculty of Civil Engineering



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INDUSTRY PARTNERS



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Substrate4CLT Project

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START DATE: 17th January 2022

DURATION: 36 months