



MODCONS

Modular Mass Timber Building for the Circular Economy

The MODCONS project is focused on examining the use of Irish grown timber in the manufacture of engineered wood products for modular construction to address the need for increased supply of housing and to develop a sustainable building solution as we transition to a net-zero carbon economy.

The main objectives of the MODCONS Project are:

- To design, prototype and test modular building components manufactured from engineered wood products, including cross-laminated timber (CLT).
- To examine the fire performance of modular timber building components.
- To examine and optimise the acoustic performance of modular timber buildings.
- To examine the life cycle performance to reduce the impact of construction on the environment and improve the circularity of the construction industry.

DESIGN

Design of a multistorey modular timber building with Irish grown wood products

TESTING

Structural, fire and acoustic testing of engineered wood products

OPTIMISATION

Optimised design based on physical test data



Department of
**Agriculture,
Food and the Marine**
An Roinn
**Talmhaíochta,
Bia agus Mara**



NUI Galway
OÉ Gaillimh



MTU

Ollscoil Teicneolaíochta na Mumhan
Munster Technological University



Project Team

The MODCONS Project is a joint project between the Timber Engineering Research Group at the National University of Ireland Galway and Munster Technological University focused on increasing the knowledge and use of timber in modular construction.

NUI Galway Team

- **Prof. Annette Harte**, Project Coordinator Email: annette.harte@nuigalway.ie
- **Dr. Patrick McGetrick**, Principal Investigator
- **Dr. Conan O'Ceallaigh**, Post-doctoral Researcher
- **Mr. Hung Phung Quang**, PhD Researcher

MTU Team

- **Mr. Des Walsh**, Principal Investigator Email: des.walsh@cit.ie
- **Mr. Andrew Macilwraith**, Lead Researcher
- **Mr. Kieran Ruane**, Research Engineer
- **Mr. Muhammad Yasir**, Masters Researcher

Stakeholder Engagement

Knowledge engagement with the industry, regulators and other interested parties related to innovation in engineered wood products and modular construction methods is a key priority of the MODCONS Project. To keep up to date with project progress and recent developments, please visit our website and join our mailing list. If you would like to engage with the project team, please contact us via the email addresses listed above.

Project Website: www.nuigalway.ie/terg/modcons/

Project Twitter: *To keep up to date on project progress and recent developments, follow us on Twitter. #MODCONS_Project*



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