



NEXT Timber – Novel Execution Tool for Timber Structures

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Nordic innovation programme : Standards as a tool for business success

- Developing the links between standards and innovation

Development of Nordic building concepts for multi-storey building with wood

- Execution methods
- Standardisation
- Performance requirements

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Finnish Confederation of Construction Product Industries RTT

2

Project aim

The overall aim is to develop an open standard tool for planning and execution of timber buildings on an international context

- Open
- Standard
- Planning and execution
- International

Available and transparent

Agreed manner of doing

Design and construct to achieve a set of performances

- a) National standards are carried out
- b) Nordic discussion ongoing
- c) A European standard is aimed for

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3

Project aim

The overall aim is to develop an open standard tool for planning and execution of timber buildings on an international context as follows:

- Develop a base document for an execution standard of timber structures in terms of Eurocode 5.
- Study performance requirements and respective solutions for some critical performances: vibrations, acoustics, fire and moisture load.
- Ensure the use of the same terminology and concepts by all stake holders with focus on the description on element joints to enable the use of elements from different sources and materials.

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4

The results of the project will be:

- A Nordic draft for a standard on the execution of timber buildings (for CEN TC250/SC5)
- Solution principles for the design for performance on selected critical characteristics (vibration, acoustics, fire and moisture load), a Nordic view will be sought.
- Framework for element technology connections and detailing for prefabrication.

Partnership

- **1 RTT** is the Confederation of Finnish construction product industries. Its role is to coordinate the project and to contribute to all WPs.
- **2 SP** is a Research Institute in Sweden. SP Wood Technology will lead WP4 and contribute to all WPs.
- **3 TMF** is a National Trade and Employers' Association of the Wood processing and furniture industry in Sweden, which will enforce the link from/to the project to Swedish national networks.
- **4 Traeinfo**, Danish Timber Information is a member based organisation which collect, develops and disseminate knowledge about using timber in buildings. Traeinfo will lead WP2 on performance requirements and contribute to the other WPs.
- **5 Treteknisk**, Norwegian Institute of Wood Technology is an independent research organization. The role is to lead WP3 and participate as the Norwegian research member.
- **6 NTF**, Association of Norwegian Roof Truss Producers is a national trade association. NTF will be to provide producer competence and market knowledge.
- **7 TUT**, Tallinn University of Technology, Faculty of Civil Engineering is the main competence centre for structural design in Estonia.
- **8 Kod**, Kodumaja AS is a holding the group of enterprises producing wooden module houses incl. one of the biggest module house factories in Europe.

Project Resources

- Total costs 320 000 euros
- March 2014 - August 2016, Duration: **30 months**

First workshop

Nordic Holzbau Forum