



StoraEnso

# Moholt 50|50 Trondheim, Norway

Partner of Stora Enso



WOODCON

Moholt 50|50 is an impressive and extensive award-winning solid wood project of over 20,000 square meters.

The five towers of nine stories and a height of 28 metres provide student housing for over six hundred students.

It took Woodcon AS just five weeks to complete each tower of prefabricated Sylva™ CLT Walls, Floors and Roofs by Stora Enso. And a mere nine months to complete the entire project!

In addition to the technical advantages such as the short construction period and the high functionality, Sylva continues to have a positive effect on the student's quality of living.

The towers were originally planned to be built with as a steel and concrete with a brick cladding. However, to meet the project's energy and climate goals, the planners turned to sustainable wood as a solution. The towers, with their relatively short spans, were statically optimal for Sylva CLT Walls and Floors construction.

Specifying 6,500 m<sup>3</sup> Sylva CLT Walls and Floors in the load-bearing structures reduced greenhouse gases in the building materials by 57 %, and the climate-damaging emissions associated with energy use were reduced by approximately 70% compared to standard Norwegian requirements.

A full-scale fire test was conducted to establish accurate burn rates and sprinkler capacity. Plasterboard, screed and insulation are used in some of the ceilings and walls to meet fire and sound regulations. But many of the structural walls, and the insides of the staircases, have a transparent fire-protective coating that enables the beautiful and natural wood to be left exposed.



Design and Architecture Norway DOGA 2021



Wooden Construction of the Year 2016



Photo credit: MDH Arkitekti | Woodcon



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## General

### Delivery year

2017

### Area (m<sup>2</sup>)

20000

### Units

632

### Building type

Multi Residential

### Storeys

9



Photo credit: MDH Arkitekti | Woodcon



## Products

### Products

Sylva™ CLT Floors and Roofs, Sylva™ CLT Walls

### Product volume (m<sup>3</sup>)

6 321



Photo credit: MDH Arkitekti | Woodcon



## Team

### Partner of Stora Enso

Woodcon AS

### Developer

Woodcon

### Architect

MDH

### Main contractor

Woodcon



Photo credit: MDH Arkitekti | Woodcon



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