

Office building oN5, Vancouver

2021



oN5 is the first TS3 building, North America. Situated in Vancouver, the oN5 office building pays homage to the beauty, structural performance and sustainability of solid wood.

The project

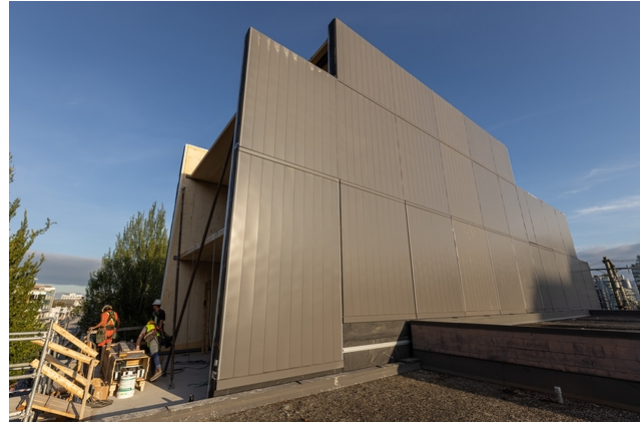
The oN5 project uses advanced building technologies that are designed to improve the efficiency and long-term performance of the structure. TS3 is not the only innovation the only innovation used in this building. For the layers are added to the CLT to improve acoustics and vibration performance. vibration behavior. In addition, the building uses an innovative and elastic connection system is used in the building, which absorbs the seismic energy and realigns the structures after a possible earthquake. The CLT wall and ceiling and ceiling elements are left visible in the interior, which highlights the natural beauty of the solid wood. the natural beauty of the solid wood, which has a positive impact on the the well-being of the occupants. The mixed-use four-story commercial building with an area of 840 m2 will provide space for small manufacturing operations and a number of stores.

The construction

The wall, ceiling and roof elements serve as the primary load-bearing system of the building, which is a concrete base. From Kattera's CLT factory in the Spokane Valley, in Washington, a total of 32 CLT elements were delivered by truck. The use of advanced logistics software enabled just-in-time just-in-time delivery, allowing for precise installation on this tight urban lot. Due to the lightness of the prefabricated elements, the components can be lifted quickly and efficiently into place. place.

The challenges

oN5 is TS3's first project in North America. The employees of Naikon were already trained directly on site in 2019. Before the start of construction, the knowledge was knowledge was refreshed again in an online training course.



Construction data

- Number of floors: 2 + 1 roof
- Gross floor area: 761 m²
- Cross laminated timber: 43.5 m³
- TS3 technology: 280 linear meters of joints

Client

Equilibrium
Vancouver BC, Canada

GU/TU

Naikoon Contracting Ltd.
Vancouver BC, Canada