Photo: UBM

Timber Praha

Prague, Czech Republic

Four residential buildings with a total of 62 flats in the rapidly growing district of Stodůlky were constructed using timber – they are the first multi-storey residential buildings of this type in Prague. The high degree of prefabrication of the CLT ("cross laminated timber") enabled a rapid construction period and, as a result, a reduction in the carbon footprint.

In addition to its pioneering position as a multi-storey timber residential building, Timber Praha also makes full use of energy efficiency. A heat pump uses geothermal energy to heat and cool the rooms. Energy consumption can be controlled and read for each flat via a smart home system. External blinds help to prevent overheating in summer. There is also a photovoltaic system on the green roof.

The use of timber ensures user comfort in the interior. The connection to public transport and the immediate proximity to a local recreation area are two other factors that come into play here. Timber Praha, certified with BREEAM Excellent, is an all-round successful example of a highly energy-efficient timber construction that leaves nothing to be desired in terms of living comfort.

Federal Ministry
Innovation, Mobility
and Infrastructure
Republic of Austria

Federal Ministry
Economy, Energy
and Tourism
Republic of Austria

Companies involved

Concept, development

- UBM Development AG

Timber construction

- ELK TECH GmbH

Facts

Residential building

- Completed 2024
- Area:
  House J – 1,527.3 m² | House K – 1,051.6 m² |
  House L – 1,288.1 m² | House M – 1,288.1 m²

Energy and environmental aspects

- Wood hybrid construction
- Reduction in construction time thanks to high degree of prefabrication
- Heat pump, geothermal energy
- Photovoltaics
- Green roof
- E-charging stations at 1/3 of parking spaces
- Comprehensive energy monitoring
- External blinds to prevent overheating in summer
- Exhaust air system with air flow elements

Key figures

- Heating requirements per house:
  J – 33.2 kWh/m²a | K – 34.4 kWh/m²a |
  L – 33.2 kWh/m²a | M – 33.2 kWh/m²a
- Primary energy requirement per house:
  J – 64.9 kWh/m²a | K – 70.4 kWh/m²a |
  L – 58.9 kWh/m²a | M – 63.7 kWh/m²a

Awards

- BREEAM Excellent
- Estate Awards 2024 – Environmental Project of the Year 2024

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