

CONSTRUCTION DETAILS

SUSTAINABILITY

INNOVATION

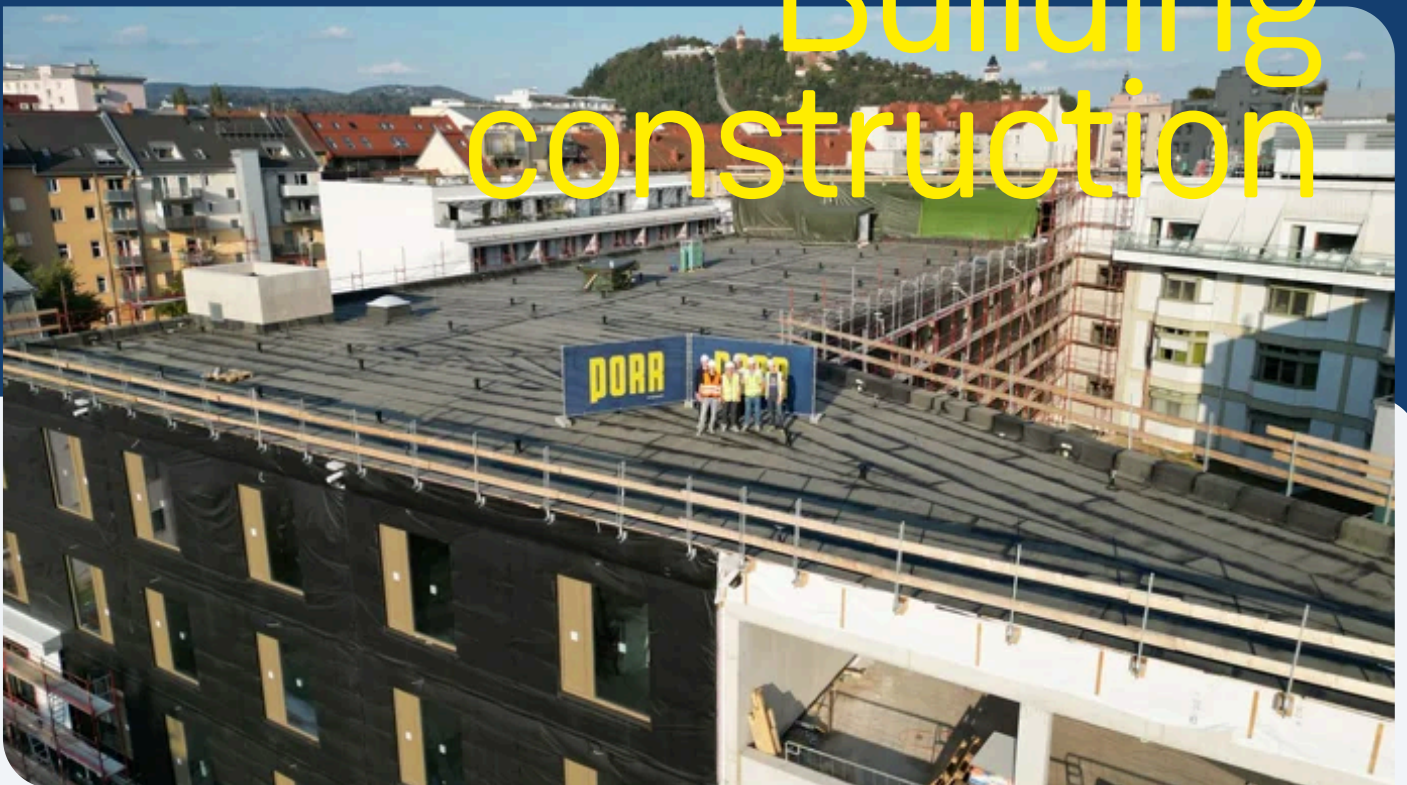
BEHIND THE CONSTRUCTION FENCE

VIDEO

# Sustainable & innovative: The hybrid timber clinic

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## Building construction



PORR is turning the Elisabethinen Hospital in Graz into a hybrid timber building. And all while the hospital continues to operate.

Concrete provides the necessary structural stability and durability, while timber, a renewable raw material, improves the carbon footprint and the indoor climate, meaning the materials complement

each other perfectly. This is how we are aiming to combine functionality, health, and sustainability in the extension and remodelling of the Elisabethinen Hospital.

## Hybrid extension

The centrepiece of our first hybrid timber project in Styria is the expansion of capacity for geriatric psychiatry. We are completing the extension as part of a consortium with Strobl. During three construction phases and a construction period of 26 months, an ultra-modern area for 75 new beds and other departments offering holistic care for patients is being created on a gross floor area of 12,000m<sup>2</sup>. In construction phase one, we built a six-storey extension. In construction phase two, we are focusing on adding several storeys to an existing building. Both construction phases feature the hybrid construction method of using concrete and

wood. We had a small window in which to erect the reinforced concrete components. However, the just-in-time delivery and assembly of the prefabricated timber elements significantly shortened our construction time and mitigated the cramped conditions in the city centre. Working on such a complex construction project while the hospital is still open is naturally challenging. But thanks to our precise planning, there are very few disruptions. Another highlight of this hospital complex will be the planted flat roofs, which are also part of the scope of our consortium agreement.

## We build during ongoing operations

# Sustainable remodelling

In construction phase three – adapting the existing buildings to the modern requirements of the health care sector – we are consistently pursuing our sustainable approach. Instead of demolishing the buildings, we are improving and modernising the existing building fabric in an environmentally

friendly way. This will enable us to integrate modern medical facilities into the existing buildings. This conserves valuable resources, reduces waste, and enables us to make a significant contribution to climate protection.



*We show how such a logistically demanding extension and conversion in timber hybrid construction and all other construction measures can be successfully completed while operations are ongoing. We are able to do this by working shoulder to shoulder with everyone involved. And it once again proves our core expertise in innovative construction projects, especially in the health care sector.*

**Markus**  
Team Leader