



PROGRESS: 100% - COMPLETED
GERMANY

LANDWEHR CANAL LIVING

Maybachufer 36 residential project, Berlin Neukölln

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PORR Deutschland GmbH has completed a turnkey construction with 71 residential and two commercial units in the trendy Neukölln district of Berlin.

The construction of the new complex of four buildings next to Berlin's Landwehr Canal was marked by difficult foundation conditions and a complex façade design, which varied from building to building.

Overview

The Maybachufer 36 project is a building complex comprising four buildings, situated right next to Berlin's Landwehr Canal, with a gross floor area of around 11,000 m², accommodating a supermarket, a day care centre and 71 residential units in different sizes and configurations.

The client is Turkish jeans manufacturer Cross Jeanswear, which expanded its business to the rest of the European market in the early 1990s. Berlin was selected as a central location in this expansion strategy and an old glassworks was purchased for use as warehouse and office space and as a factory outlet.

As the space available no longer meets its requirements, Cross Jeanswear relocated its warehouse and offices and decided to construct a residential complex with a supermarket and day care centre on the site of the old glassworks.

Project data

Employer	Cross Jeanswear GmbH
Contractor	PORR Deutschland GmbH . ZNL Berlin
Architect	Patzschke und Partner Architekten
Order type	Main contractor
Project type	Building construction . Residential building
Project scope	Planning and construction of a six-storey apartment building with grocery store and day care centre
Order volume	16 million euros
Construction start	04/2017
Construction end	03/2019



THE REAL CHALLENGE WAS THE INTRICATE FAÇADE DESIGN WITH DIFFERENT STRUCTURES IN THE DIFFERENT BUILDINGS.

Melanie Splichal
Project manager, PORR Bau GmbH



The elaborate façade design has differentiated structures depending on the equipment level. Source: PORR/Markus Löffelhardt

In harmony with the urban landscape

The residential complex comprises four buildings. The supermarket extends through all four buildings; buildings 1 and 2 are also home to the day care centre as well as premium rental apartments. In addition to the supermarket space, building 3 contains mid-scale rental apartments, while building 4 has simple micro apartments.

The complex has a classical style on the outside, tastefully complemented by modern elements. The inclusion of features of the historical architecture of the immediate surroundings ensures that the new building blends into the cityscape. The real challenge was the intricate façade design with different structures, depending on the configuration of the building in question and combined with the copper roof dome.



The Maybachufer 36 residential complex uses classical elements inspired by late 19th to early 20th century architecture with a modern twist. Source: PORR/Markus Löffelhardt



THE GROUNDWATER CONDITIONS ON THE SITE MADE DEWATERING NECESSARY. GROUNDWATER REDUCTION MEASURES WERE PLANNED AND EXECUTED WITH A SOLDIER PILE WALL FOR SHORING.

Melanie Splíchal
Project manager, PORR Bau GmbH

Difficult foundation conditions

The building complex includes a basement level with a garage, technical and storage rooms, a ground floor and five or six higher storeys depending on the building.

The high groundwater conditions on the site made dewatering necessary. Groundwater reduction measures were planned and executed using a soldier pile wall for shoring. A trench embankment on neighbouring land was possible on one site boundary. The entire basement level was constructed in waterproof reinforced concrete. The ceilings over the ground floor in the areas not built on and the passageways were also planned and implemented with waterproof concrete.

The load-bearing vertical components were designed in reinforced concrete and brickwork; the ceilings are also made of reinforced concrete. The roofs were constructed as warm roofs with bituminous sealing. The roofs of the internal courtyard and all other roofs outside of the roof terraces have a green roof.

PORR handed over the day care centre to the client as an extended shell for the work to be completed by the operator. All other areas were handed over by PORR on a turnkey basis.



Modern elements complement the classic façade style. Source: PORR/Markus Löffelhardt

Conclusion

The confined inner-city location of the construction area with a directly adjacent building and a car park required a high level of care, consideration and precision from the experts at PORR. For example, during the excavation work, the soldier pile wall was installed directly on the car park boundary. The team had to ensure that use of the rest of the car park was not obstructed during the work.

Thanks to a strong project team that worked passionately to implement our PORR principles in collaboration with the subcontractors and all involved in the planning process, the project was handed over to a happy client in March 2019.

Technical data



2,222 m²

Plot area

7,200 m³

Amount of excavated material

Gross floor area	10,961 m ²
Excavation pit depth	3.50 m
Car parking spaces	33
Steel incorporated	682 t
Concrete incorporated	3,600 m ³



The copper roof dome makes the residential project a special eye-catcher. Source: PORR/Markus Löffelhardt