



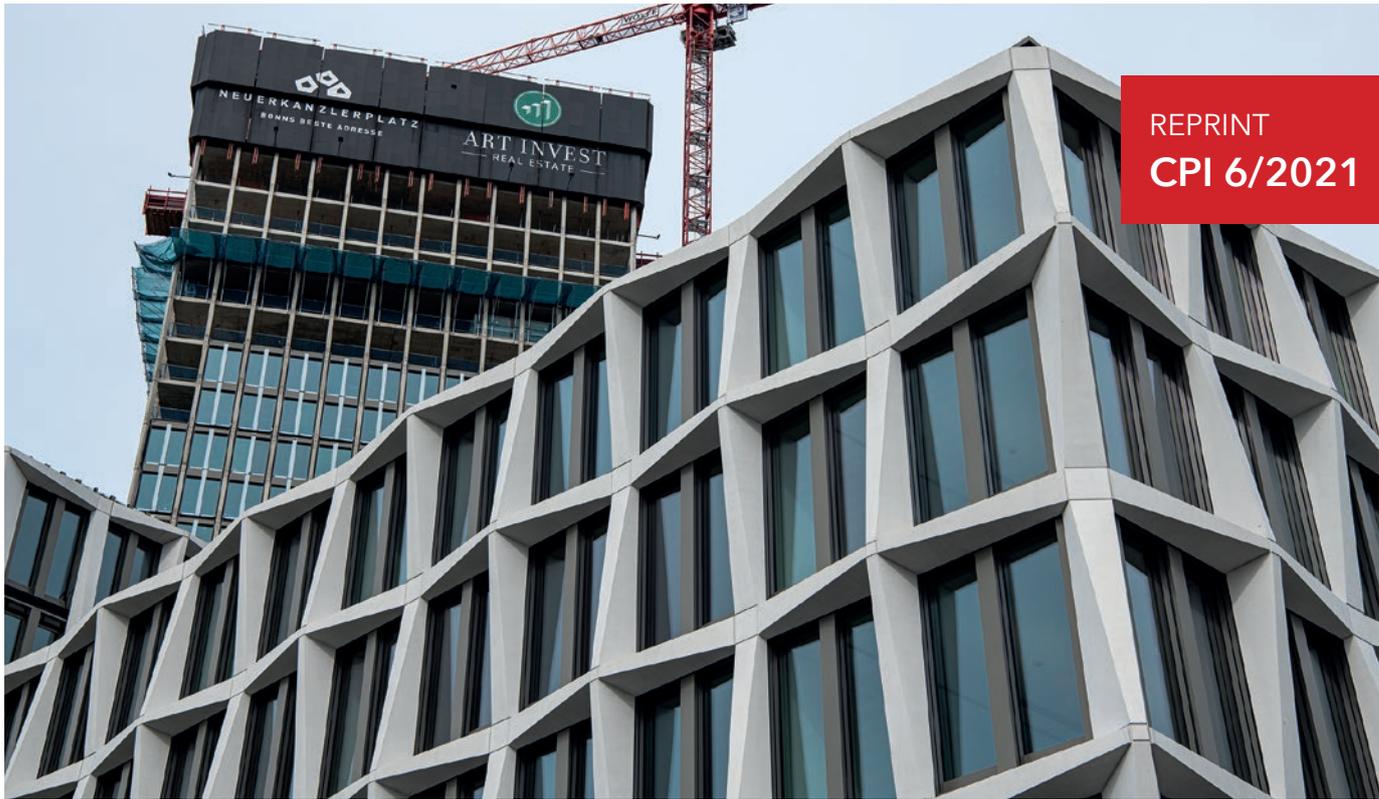
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New Chancellor Square in Bonn -  
eye-catching façade thanks to PU matrices



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Wasa Compound GmbH & Co. KG, 98617 Neubrunn, Germany



# New Chancellor Square in Bonn – eye-catching façade thanks to PU matrices

The Wasa Construct division is becoming increasingly important within the Wasa group. Only small formats were manufactured in the first years of polyurethane mould production, but now the share of large moulds for façade construction is rising at an ever-increasing rate. For the last seven years, Wasa has been involved in large-scale projects, where the interplay of state-of-the-art technology and professional expertise is essential. With the New Chancellor Square in Bonn, Wasa has once again impressively demonstrated all its competence in the field of model and mould creation.

The New Chancellor Square, consisting of a total of three building complexes, combines innovations from a wide variety of fields. Futuristic architecture encounters modern building materials - sophisticated detailed solutions facilitated with expertise from Wasa. The construction project, which is

managed by the Art-Invest Real Estate project development company, sets new standards for Bonn and the region. With its high point of 101.5 m, the New Chancellor Square forms a fresh landmark in the middle of the city quarter. Only the Post Tower and the Lange Eugen in the former government quarter, immediately adjacent to the New Chancellor Square, will still surpass the building in height.

House 2 is nearing completion and is thus also about to be handed over to its tenant. Construction work on houses 1 and 3 is also already well advanced. Lift rails, portals and cabins have been installed so that the shell structures are accessible.

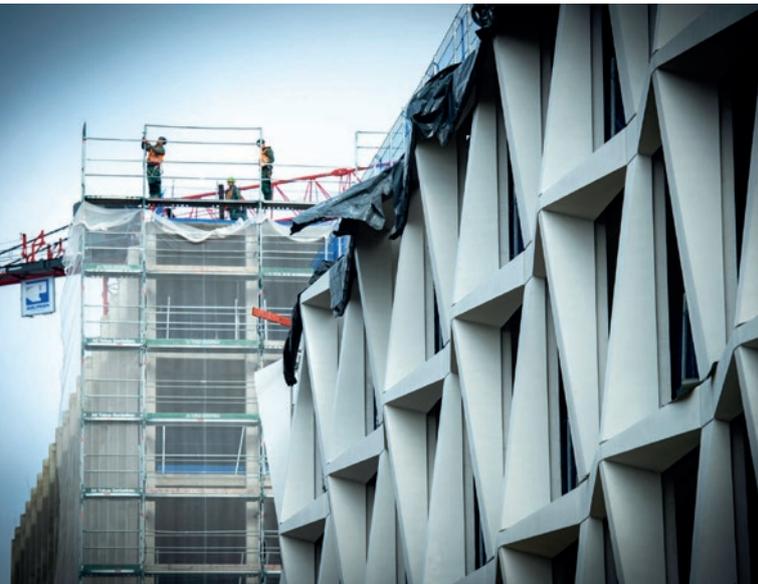


View of the New Chancellor Square in the evening



Completing the model frame in Wasa's own carpentry workshop

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*Construction work on the three building complexes is progressing rapidly*

After their final completion in 2022, the 28 storeys of the tower and two other building areas will offer state-of-the-art office solutions, areas for gastronomy and retail, as well as event and conference areas. The New Chancellor Square will consist of three building structures grouped around a large public square, lending a characteristic landmark to Bonn's skyline.

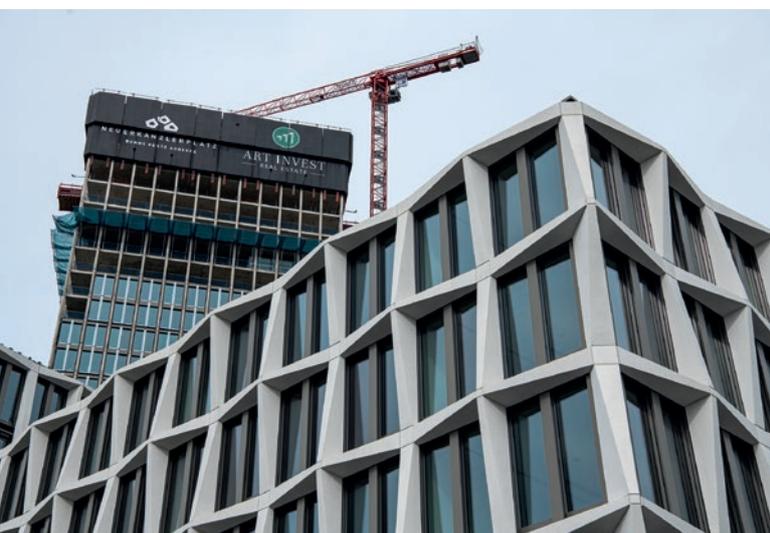
The Lindner Group, based in Arnstorf, Bavaria, commissioned Wasa Compound GmbH & Co. KG to produce 12 different casting models, of which 30 PU matrices were made with their corresponding production frames. The dimensions of the matrices are considerable. The longest model measures 11.0 m in length; the corresponding PU matrix weighs 240 kg. Glass-fibre reinforced concrete elements, which will make



*Demoulding the hardened polyurethane matrices*

up the eye-catching façade of the elegant ensemble, were produced on the matrices supplied by Wasa. The façade will consist of a total of 2,786 GFRC elements.

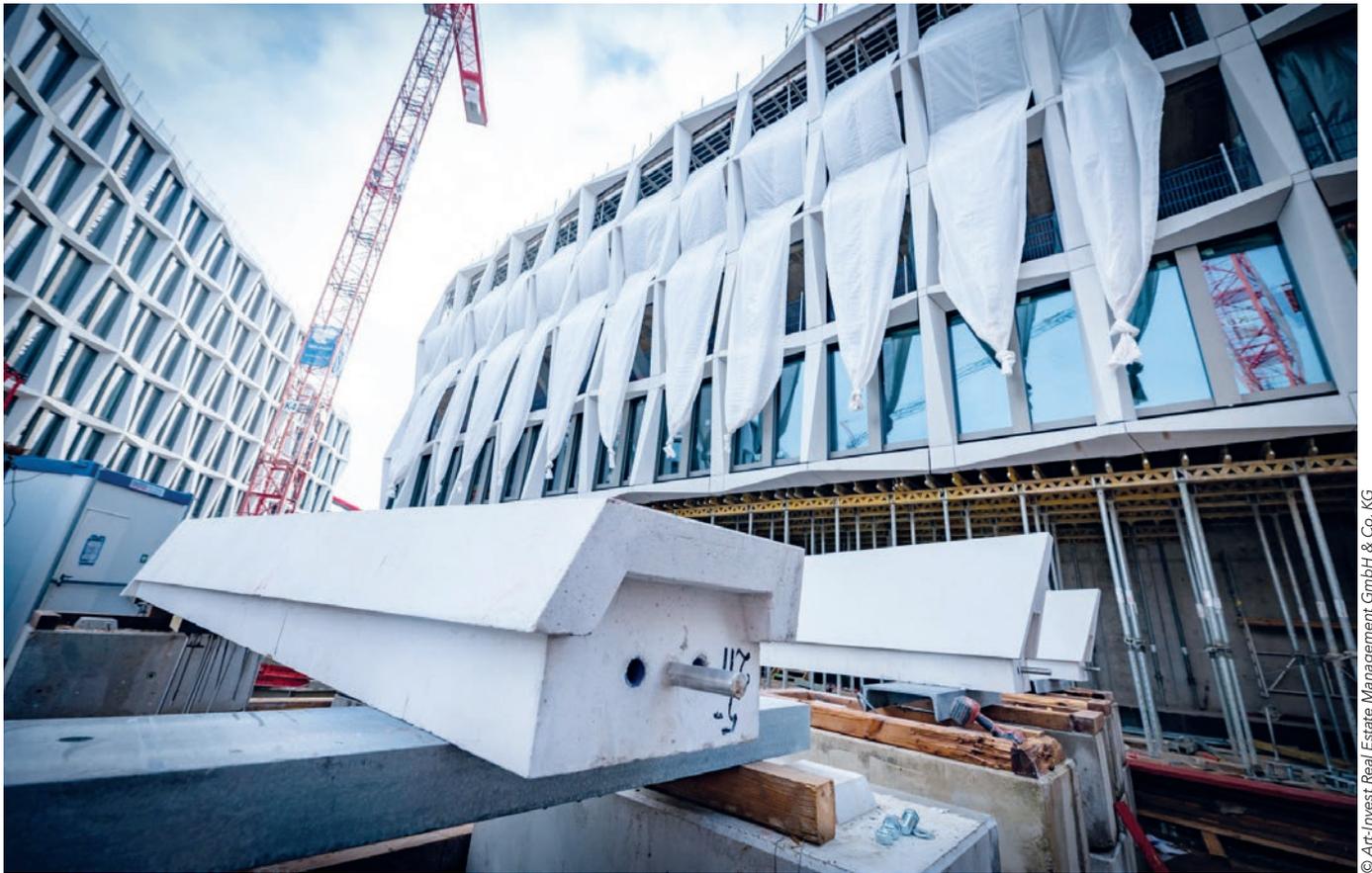
The great efficiency with which Wasa operates is also reflected in the short time required for production, which was completed in just two months - also thanks to flexibly planned extra shifts: order placed in mid-June 2020, delivery already in mid-August 2020. All the milled components needed to make the production frames and casting models were able to be manufactured on a state-of-the-art, 5-axis milling machine. Without this investment, which Wasa made at the end of 2019, it would have been impossible to meet the delivery date required by the Lindner Group within the specified time frame. Several hundred façade elements were produced on



*At a height of over 100 m, the New Chancellor Square is Bonn's third-highest building*



*A discerning eye: Dr Arno Schimpf, the managing director of Wasa Compound GmbH & Co. KG, meticulously inspects the finished models*



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The elements made of glass-fibre reinforced concrete shortly before installation on the façade

some of the formwork during the construction work. The first and last elements to be installed had to have exactly the same surface finish and identical geometry - a major challenge for the Wasa Pur PU system, which once again proved its worth in this major project. The extremely low-viscosity, two-component casting resin was again very easy to process due to its low viscosity with the associated flow properties, a long pot life and the smooth surfaces.

### Wasa Shuttering

Another innovation also ensured rapid progress: Wasa Shuttering - a methodology that was specially designed and developed for producing flat concrete products and for which a utility model application has been filed by Wasa. Among other things, this process eliminates the need for time-consuming silicone work to seal formwork and form chamfers. This generates savings on both material resources and working time in the long term. Wasa Shuttering additionally ensures a uniform joint pattern, the geometry of which can be individually adapted to a customer's wishes. The shaping of the chamfer pattern on the precast concrete component is also reproducible unproblematically in large quantities.

The façade for the New Chancellor Square is the latest in a growing list of demanding large-scale projects undertaken by Wasa Compound GmbH & Co. KG - proof of its great innovative strength and the very high quality of Wasa work. ■

#### FURTHER INFORMATION



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