**310 metres above Warsaw – Varso Tower**

**Poland’s tallest building in construction**

**In the future office spaces of the Varso Tower, people will be able to work in the tallest building in Poland. Doka is supplying formwork solutions suited to the modern architecture of the new building in the heart of Warsaw. The construction scheme is part of the Varso Place mixed-use development which aims to revitalise the surrounding city district.**

The Polish capital’s highrise skyline is expanding steadily. The new Varso Tower is one of the highest buildings in Europe and, when completed, the 310 m tower will be the tallest building in Poland. Situated in the centre of the city, near the Palace of Culture and Science, the building features a restaurant and observation deck on top with panoramic views across Warsaw. London architectural firm Foster and Partners is responsible for the design of the Varso Tower project, which has glass façades designed to flood interior spaces with daylight.

The entire Varso Place development covers a total leasable area of 144,000 m². Apart from offices, the complex will contain a range of facilities including a hotel, fitness club, medical centre, multiple restaurants and cafés. Not only will the Varso Tower enrich the architectural scene in Warsaw, it will also showcase the city’s potential as a prominent European business and academic location.

The tower comprises 53 above-ground stories and some 70,000 m² of office space. It also has the highest viewing point in Poland at the height of 230 metres. Doka is supplying a custom formwork solution for the international workspace provider HB Reavis responsible for the development of the project.

**Reduced shuttering times with Framax Xlife and Dokadek 30**

The geometry of the building core and the inner-city location of the construction site presented particular challenges for this project. The geometry is reminiscent of a parallelogram, in which the triangular shape of the building shafts also presented some structural challenges. Besides, the structure of the core was significantly affected by the architecture of the upper floors, which had to be carefully considered from the conception phase.

The complex geometry of the building necessitated the use of framed formwork Framax Xlife. Framax represents high productivity that can be achieved even under severe working conditions. With this system, only a few units were required to create a 15-centimetre grid into which all the connecting materials could be seamlessly integrated. The significant distance between anchors meant that assembly time could be reduced. Specified unit formats and consistent unit grids ensured optimum usage of formwork materials. This combination contributed significantly to the high profitability in the use of the system.

Dokadek 30 unit ceiling boarding was used for the construction of the individual levels. Large

3 m² units could be inserted with this bearer-free system, which represented a significant saving in time. The mating surfaces were capped using Dokaflex seamless interlocking. The Doka concept is characterised by self-climbing forming and working platform SCP for the building core as well as the Table Lifting System TLS for quick and secure vertical construction without a crane. This combination enabled a significant increase in the speed of the construction process so that a five-day cycle could be established.

**All-round safety**

The SCP platform significantly increases efficiency. The platforms used the pump included in the system to prevent unnecessary movements in the erection of the highrise core. The Protection screen Xclimb 60 ensures safety from falling as well as protection from weather conditions. The hydraulic climbing system provides constant guidance that allowed construction to continue even in high winds. The Safety Net Fan was used to intercept falling objects and debris safely. This flexible system can be used with all kinds of structures and shapes.

Project completion is expected for end of 2021.

**In short:**

Project: Varso Tower

Location: Warsaw, Poland

Type of structure: Highrise, office building

Height: 310m

Number of floors: 53 above ground, 4 subterranean

Construction principal: HB Reavis Construction

Construction work by: Warbud S.A.

Architect: Foster + Partners

Start of Construction: 2016

Scheduled construction end: 2021

Systems used: Products: Self-climbing platform SCP, Dokadek 30, Table lifting system TLS, Protection screen Xclimb 60, Framed formwork Framax Xlife,

Automatic climbing formwork SKE 100 plus

Services: Prefabrication of platforms

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| C:\Users\junterst\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Varso_Tower_DSC5669.tif | The inner-city location of the construction site and the geometry of the core presented particular challenges for this project.  Photo: VarsoTower\_IMG02.jpg  Copyright: HB Reavis Poland |
| C:\Users\junterst\AppData\Local\Microsoft\Windows\INetCache\Content.Word\IMG_20191130_094952.jpg | The Protection screen Xclimb 60 and the Safety Net Fan were used to ensure safety on the construction site.  Photo: VarsoTower\_IMG03.jpg  Copyright: Doka |
| C:\Users\junterst\AppData\Local\Microsoft\Windows\INetCache\Content.Word\_DSC1377.JPG | Framed formwork Framax Xlife was a significant component of this project.  Photo: VarsoTower\_IMG04.jpg  Copyright: HB Reavis Poland |

**About Doka:**

Doka is a world leader in the development, manufacture and distribution of formwork technologies for all areas of construction. With more than 160 supply and logistics locations in over 70 countries, Doka operates a highly effective distribution network and guarantees quick and professional provision of both materials and technical support. Doka is a company of the Umdasch Group and employs 7,000 people worldwide.

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