

PRESS INFORMATION

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5 press photos
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Infrastructure construction: Hünnebeck formwork solutions for railway line

To the beach by metro

Ratingen/Hoek van Holland, November 2021 With the 2.5 km long „Metro aan Zee“ project, a consortium made up of Boskalis Nederland and Swietelsky is realising the conversion and extension of a former railway line into a metro line plus a new stop at the beach of Hoek van Holland. Hünnebeck is supplying the formwork solutions for the various sections of the metro, which are being realised as tunnels, U-sections and elevated block sections.

The Dutch coastal town of Hoek van Holland (near Rotterdam) is located at the main estuary of the Rhine and is an important ferry port to the UK. The railway line that used to end at the harbour has already been converted into a metro line and is currently being extended to include a stop right at the beach. 1.5 kilometres of the route under construction runs on a former railway line, while the final kilometre to the beach is being built on concrete foundations and partly elevated on concrete blocks.

Mobile tunnel formwork from the Infra-Kit modular system

The sections of the new metro line also include a 315-metre long tunnel, which was realised using the cut-and-cover method. It was created as a semi-recessed box section (internal height: 5.5 m), which will be covered with sand and laid out as a dune after completion. This is to provide extensive protection for the environment and residents from noise and vibrations. For the production of the box section, Hünnebeck formwork experts developed displaceable tunnel formwork based on the Infra-Kit modular system in combination with H 20 beams.

The main components of the 15-metre long formwork unit were beams and struts from the Infra-Kit L (Light) and M (Medium) load classes, which are especially suitable for light and medium-heavy applications in infrastructure construction. Hünnebeck generally offers the double U-beams in lengths between 62.5 and 550 cm (L-version) and 150 to 600 cm (M-version). The modular Infra-Kit system includes struts, spindles, connectors and adapters in order to connect the beams. The advantage of the concept: A few basic components cover a wide range of applications in infrastructure and civil engineering. This includes, for example, the tunnel formwork in this project. Thanks to the user-friendly design, the construction site team was able to quickly assemble the wheeled formwork unit for the first concreting operation and then winch it to the next cycle – 15 times in total.

Manto: robust panel formwork for 80 kN/m² concrete pressure

The already completed tunnel is followed by a 225-metre long, sunken open route along the beach promenade. The semi-submerged, channel-like structure made of in-situ concrete is being constructed by the structural engineers in 15 concreting sections, each 15-metre long, using the robust Manto crane-dependent panel formwork. Thanks to a comprehensive range of panels up to 3.30 metre high, Manto is particularly suitable for rapid shuttering and striking of large wall surfaces.

Elevated

The final 400 m of the new metro line run directly along the beach. To allow the sand to move freely in strong winds, this section is elevated. The rails will run around 0.5 metre above the ground and have support points made of concrete blocks every 1.5 metre. This final section of the route will certainly be the most interesting part of the journey for future passengers.

About Hünnebeck

The BrandSafway Group, headquartered in Kennesaw, GA, USA, is a leading global provider of a broad range of products and services for access solutions, specialized industrial services and formwork and support solutions for industrial, commercial and infrastructure applications. BrandSafway facilitates conversion and modernization measures as well as expansion and new construction programs using defined processes and with safety as its uppermost priority. As part of its global presence, BrandSafway serves more than 32,000 customers worldwide through a closely knit network of more than 40,000 employees at 360 locations in 30 countries.

The BrandSafway Group comprises a number of strong traditional brands that are among the market leaders in their respective segments and regions. Hünnebeck, headquartered in Europe, is part of this international group of companies – a name that dates back to 1929 and stands for formwork, scaffolding and safety equipment characterized by high quality, flexibility and cost-effectiveness. Hünnebeck also offers a broad spectrum of project-related services, ranging from engineering, site logistics, cleaning & repair services, user training and formwork services to complete project development. The BrandSafway formwork division also includes SGB (Middle East/Asia) and Aluma Systems (North and Latin America).

Further information about Hünnebeck is available at www.huennebeck.com

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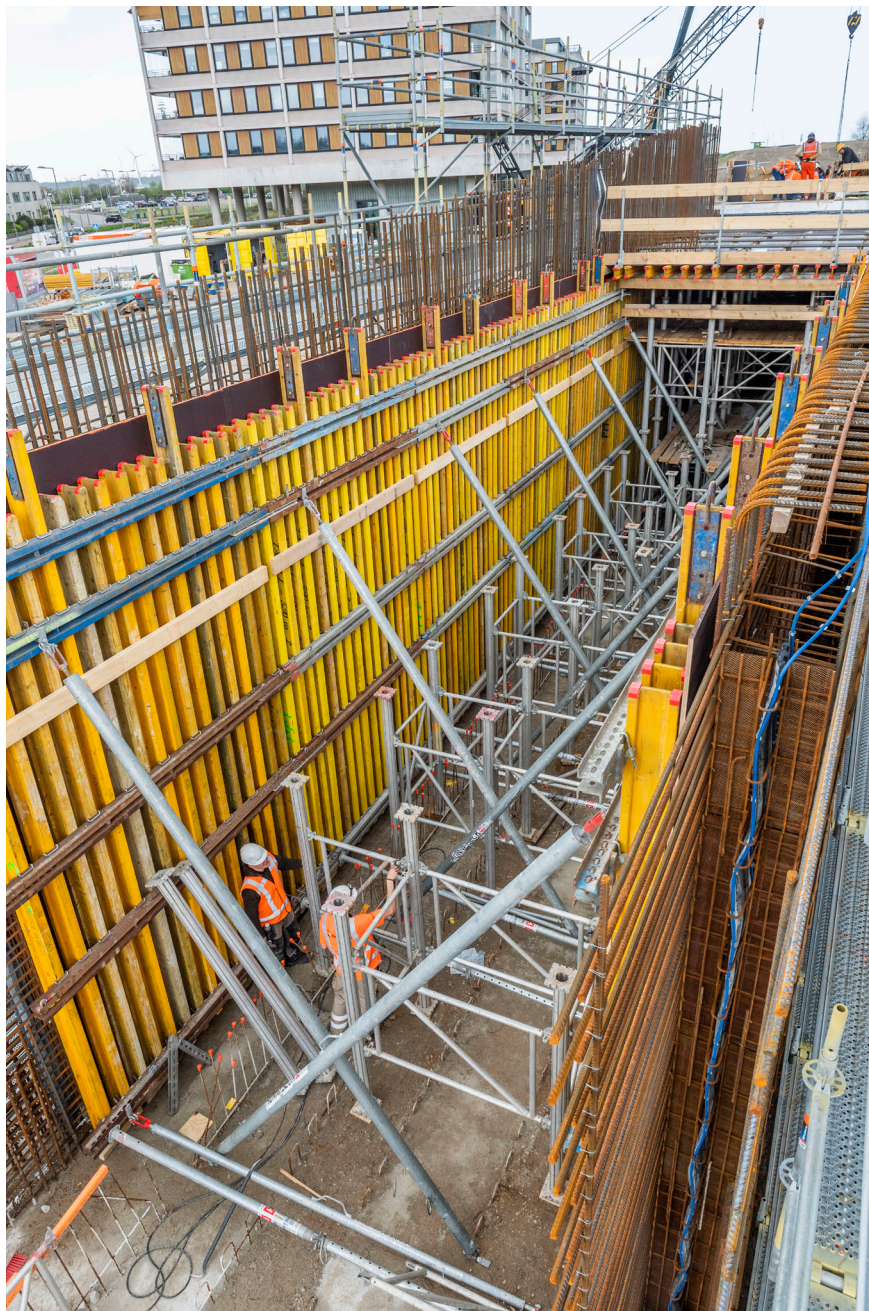
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With the 2.5-kilometre project „Metro aan Zee“ long, a former railway line will be converted into a metro line and extended to include a stop at the beach. Hünnebeck is supplying the formwork solutions.

(Photo: Hünnebeck)

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To the beach by metro



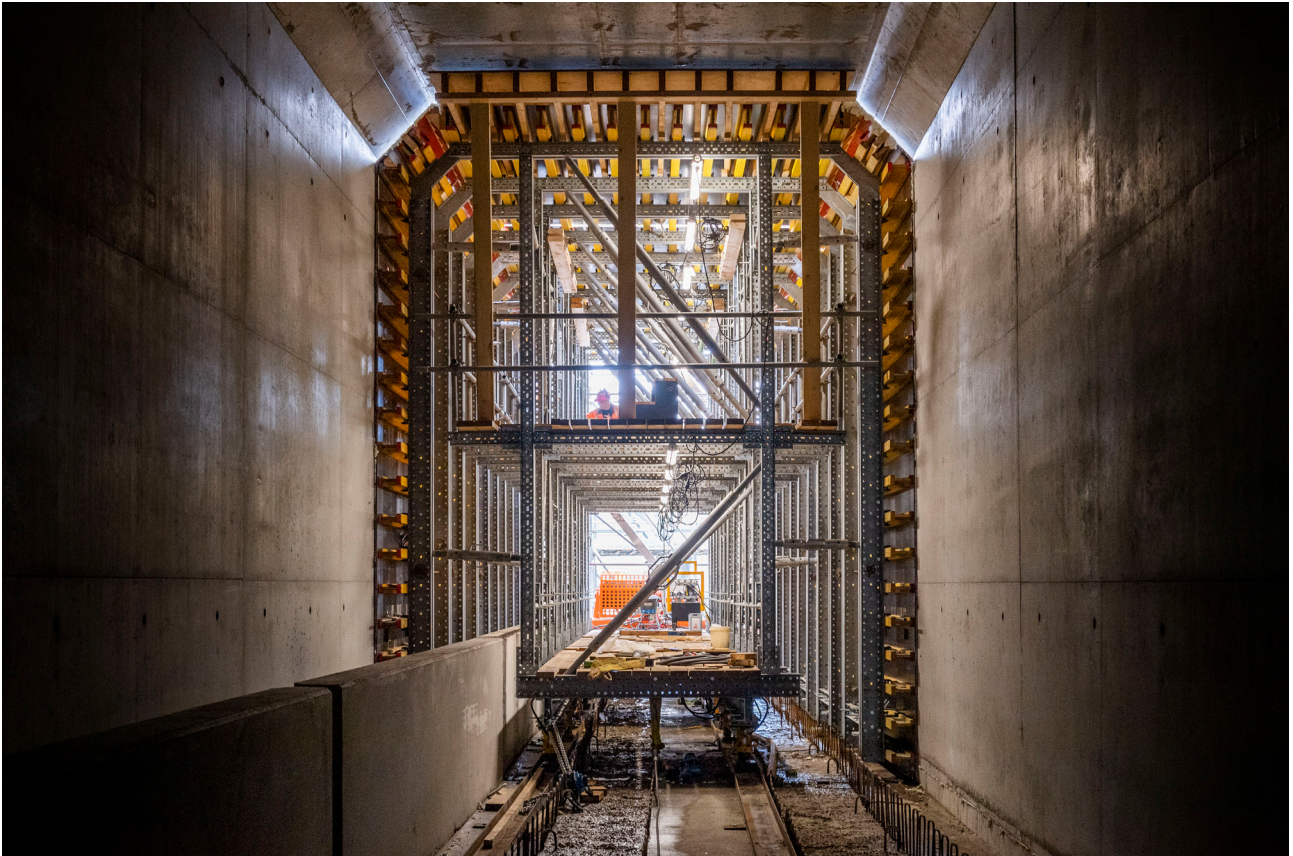
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On site: the lightweight, high-performance Gass aluminium support system.

(Photo: Hünnebeck)

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To the beach by metro



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For the production of the underground box section, Hünnebeck formwork experts developed displaceable tunnel formwork based on the Infra-Kit modular system in combination with an H 20 beam formwork.

(Photo: Hünnebeck)

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User-friendly: The Infra-Kit module includes various struts, spindles, connectors and adapters for connecting the beams. Thus, a few basic components enable a wide range of applications.

(Photo: Hünnebeck)

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The semi-submerged, channel-like structure made of in-situ concrete is being constructed by the structural engineers with the help of the robust Manto panel formwork.

(Photo: Hünnebeck)