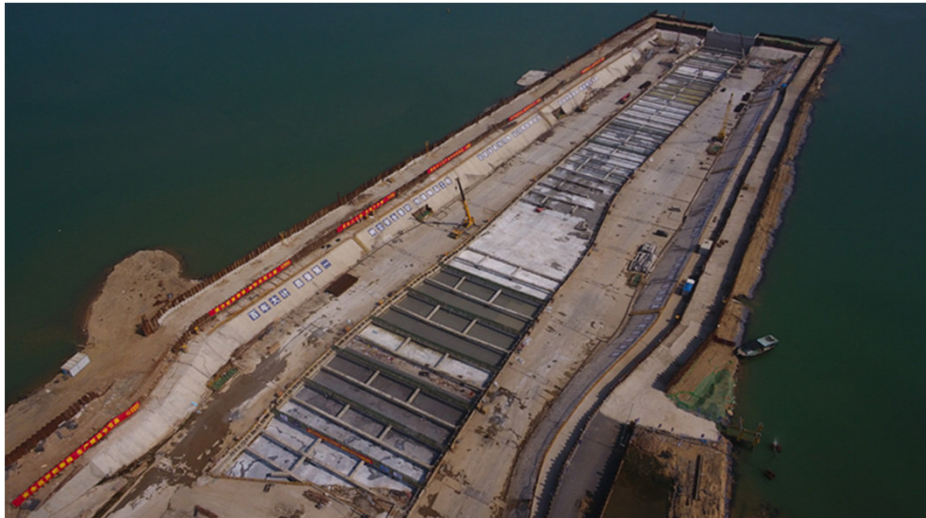


REFERENCE LIST



Projekt: Wenming East Passage, Haikou, Hainan Provinz, China

Haikou Wenming East Passage is an important link between the main city of Haikou and the new Jiangdong District. The construction started in the end of 2018 and was completed in June 2020. The direct traffic link has a length of 4.38 km, including 2.72 km of tunnel sections. The sheet piles were used for a cofferdam.



Construction:	2018 to 2020
Profile:	Larssen 627C
Steel grades:	S 355 GP, S 390 GP
Quantity:	5.000 t
Length:	15 up to 27 m
Type:	river underpass

Projekt: The Grand Canal von Beijing nach Hangzhou, Zaozhuang Shandong Province, China



Beijing-Hangzhou Grand Canal has a total length of 1,794 km and is running in the north and south through 18 urban areas, connecting five major water systems. The Zaozhuang province is located in the middle section of the canal.

Construction:	2020
Profile:	Larssen 618C
Steel grade:	S 355 GP
Quantity:	3.000 t
Length:	9 m
Type:	canal, slope protection

Projekt: Beijing-Xiongan Expressway, Beijing, China



Beijing-Xiongan Expressway is the most convenient highway link between Beijing and Xiongan New Area. The project is elevated to 90%, minimizing the occupation of land resources. With completion in 2019, it is possible to reach Beijing and Tianjin in 60 minutes from Xiongan New Area through the highway network.

Construction:	2019
Profile:	Larssen 627C
Steel grade:	S 355 GP
Quantity:	2.000 t
Length:	15 up to 18 m
Type:	excavation pit

Projekt: Lianyungang Petrochemical Co. Ltd, Lianyungang, Jiangsu Province, China



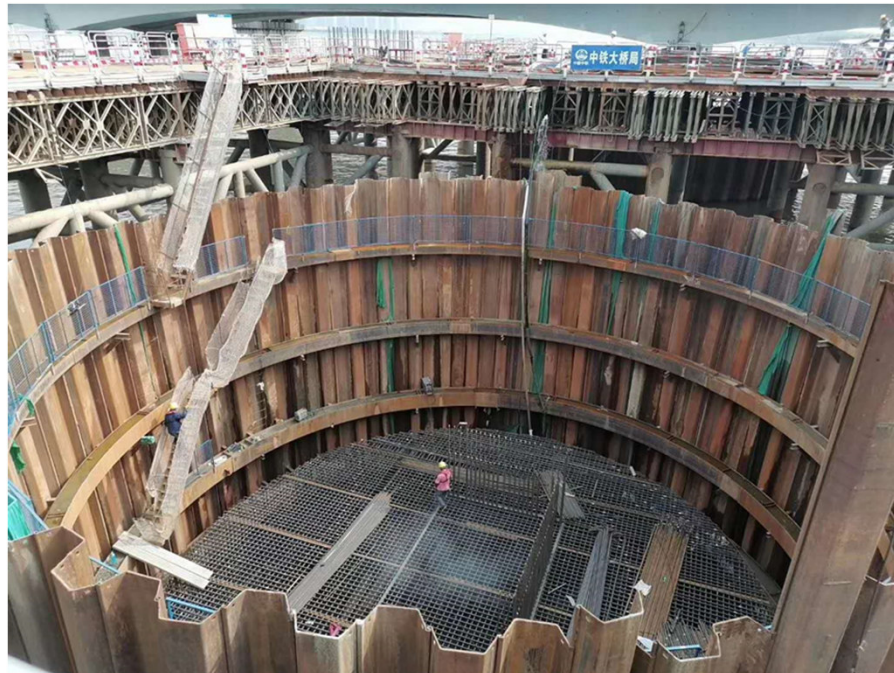
Construction: 2019
Profile: Larssen 627C
Steel grade: S 355 GP
Quantity: 5.000 t
Length: 18 m
Type: excavation pit

Lianyungang Petrochemical Co., Ltd is located in one of the seven National-Level Petrochemical Industrial Bases – XuWei District, Lianyungang Port, Jiangsu Province. The company is constructing a light hydrocarbon comprehensive processing and utilization plant with a performance of 3.2 million Mt/y. The sheet piles were used for the foundation works.



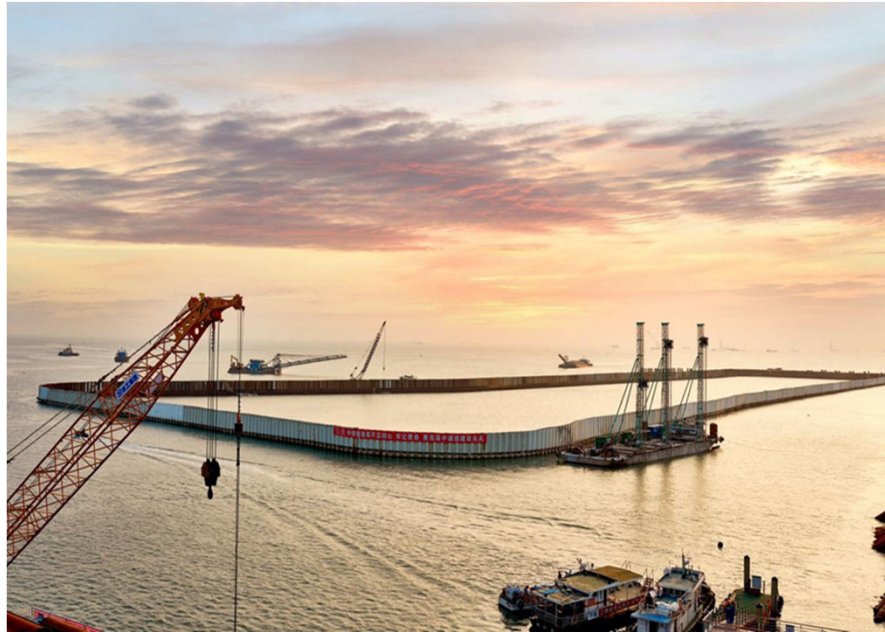
Projekt: Qiantang River Bridge, Hangzhou Zhejiang Province, China

The new Qiantang River Bridge is close to the old bridge and parallel to it. The base construction consists of 8 piers with sheet pile cofferdams. Due to the annual river spring tide, the project is a major challenge to nature. The tide coming upstream from the bay into the narrower river leads to a tidal wave up to nine meters high. The “Silver Dragon”, as the giant wave is called, annually attracts hundreds of thousands of onlookers who follow the natural spectacle. The tidal wave of the Qiantang River is considered the largest in the world. For the sheet pile cofferdams this means a high technical requirement, which our products have fulfilled with excellent performance.



Construction:	2019
Profile:	Larssen 627C
Steel grade:	S 355 GP
Quantity:	1.000 t
Length:	18 m
Type:	excavation in open water

Projekt: Shenzhen-Zhongshan Bridge, Guangdong Province, China



Construction:	2016 to 2024
Profile:	Larssen 725
Steel grade:	S 355 GP
Quantity:	3.300 t
Length:	21 up to 33 m
Type:	excavation in open water

Shenzhen-Zhongshan bridge with a length of 24 km connects Shenzhen in the east and Zhongshan in the west. It includes 16.9 km of bridges and 7.1 km of undersea tunnels with an artificial island at each tunnel end. The construction began in 2016 and is expected to be finalized in 2024. The time between Shenzhen and Zhongshan will be shortened from the current 2 hours to about 30 minutes after completion. The sheet piles of HSP are used for the excavation pits in open water.

Projekt: Suzhou River, Hochwasserschutz, Shanghai, China

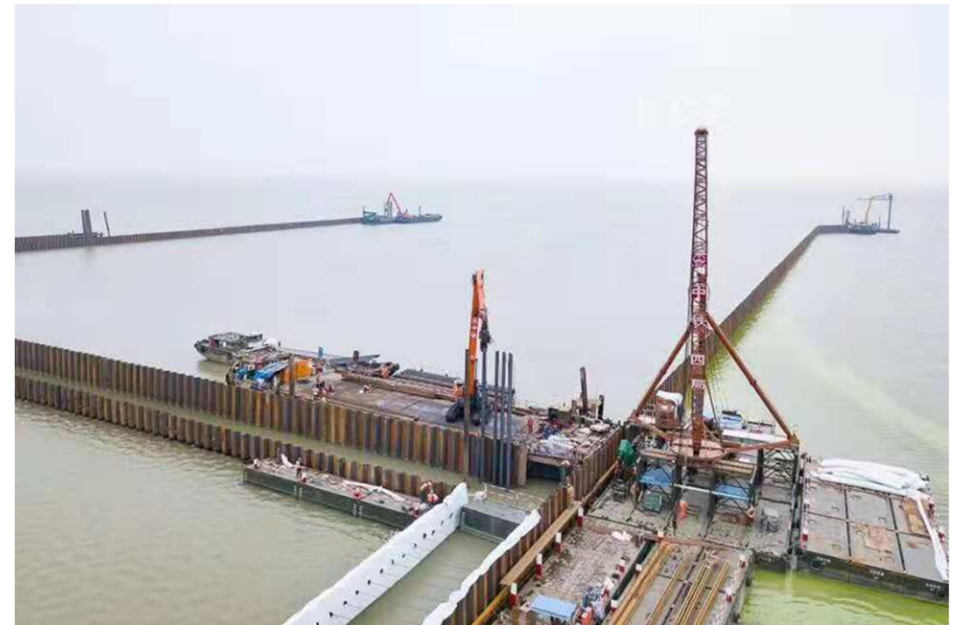
Suzhou River is the mother river of Shanghai. The project aims to improve the water quality and the city's flood control capability. Steel sheet piles greatly improves the efficiency and reduces environmental pollution.

Construction: 2019
Profile: Larssen 618C
Steel grade: S 355 GP
Quantity: 16.500 t
Length: 4 up to 25 m
Type: flood protection



Projekt: Tai Lake Tunnel, Jiangsu Provinz, China

Tai Lake Tunnel is the longest underwater tunnel in China, with a total length of 10.79 kilometers. It is currently under construction and is expected to open by the end of 2021. The Tai Lake Tunnel is constructed by the weir construction method and proceeds from the shore to the middle of the lake section-by-section. The steel sheet pile cofferdam is used to keep the water out first, then the bottom of the lake is dug to build the tunnel. The soil and water are returned after the completion of the main structure, to gradually restore the lake



Construction:	2019 to 2021
Profile:	Larssen 627C
Steel grade:	S 355 GP
Quantity:	20.000 t
Length:	15 up to 18 m
Type:	excavation in open water cofferdam

Projekt: Terminal and River Extension Project, Corpus Christi, USA

Within the expansion of the Corpus Christi River in the gulf of Mexico and two US ports, 500 million US-dollars will be invested in the next three years. After the reconstruction, the canal will have a depth of up to 50 feet. The sheet piles are used for two new VLCC berths (very large crude carriers)

Construction:	2020 to 2021
Profile:	Hoesch 2607
Steel grade:	Grade 60
Quantity:	3.000 t
Length:	12 up to 27 m
Type:	harbour wall

