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## REFERENZ HARBOUR CONSTRUCTION AND MARINE ENGINEERING

### Extension Mole 2, Brunsbüttel



The lighthouse „Mole“ will be moved about 50 m westwards. The existing pierhead will be damaged on a length of about 25 m and a 75 m long pier construction will be built.

The work includes following components and measures:

Survey works;

Bulkhead as combined wall build of HZM 680 with AZ 26-700 with mounted steel waling and access jetty at the passages between old and new Mole.

Diagonal anchoring with bored injection piles Ø 63,5 mm

Bulkhead as combined wall build of piles with Ø 1420 mm and injected piles AZ 26-700 with diagonal anchoring by combined piles Ø 711 mm with PSt 600 with a length of about 64 m

Foundation of the lighthouse consisting of 3 tubes Ø 914 mm and pilecap.

Dolphin row with piles from Ø 1220 up to 1626 mm in front of the supporting structure.

Access jetty made of steel, width 1,20 m with railing on both sides.

Damage, transport and storage of the old lighthouse including granite base; grounding and lightning protection

**Contract Value:**  
~5,44 € Mio

**Executed by:**  
F+Z Baugesellschaft mbH

**Employer:**  
WSA Brunsbüttel

**Construction Period:**  
2012 - 2013

**Site**  
Brunsbüttel, Germany

#### **Specifications / Main Quantities:**

|                                   |             |
|-----------------------------------|-------------|
| Bulkhead                          | 16 m        |
| Mole                              | 75 m        |
| Top of Mole                       | NN +3,65 m  |
| Harbour bottom                    | NN -14,00 m |
| Calculation sole                  | NN -17,00 m |
| Load bearing- /<br>injected piles | 950 t       |
| Dolphins                          | 660 t       |

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