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# PROJECT: ROKER PIER, SUNDERLAND COPING REPAIRS

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VALUE: £52,000  
ROLE: MAIN CONTRACTOR  
START DATE: SEPTEMBER 2011  
COMPLETION: NOVEMBER 2011

CLIENT: SUNDERLAND CITY COUNCIL  
JACK CRAWFORD HOUSE  
HENDON  
SUNDERLAND

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- 42m of copings to remove, clean and repaint
- Coping weighing 2t – 5.7t
- 35mm joints pointed with Easipoint Marine Mortar.

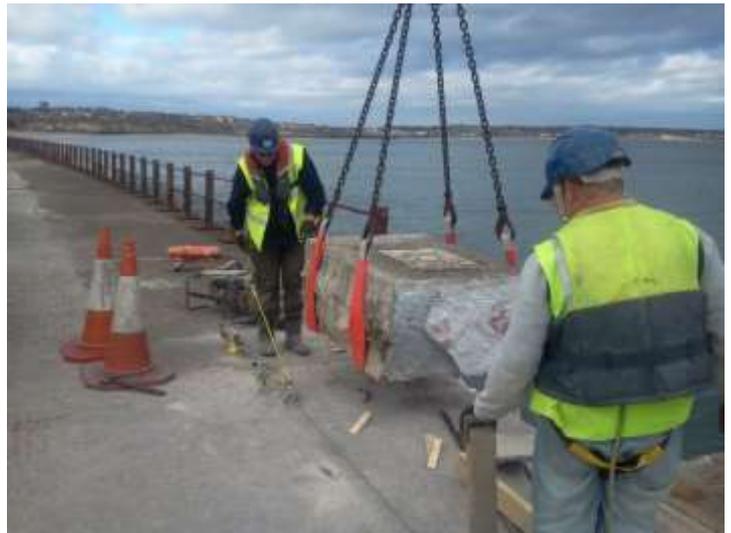
- Work area on pier 500m from the beach
  - Hazardous and restricted working area
  - Listed structure
  - Temporary works to prevent copings getting washed away.
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The works involved removing 42m of granite coping stones that had become dislodged due to severe wave action over a number of years.

The drilling of the granite blocks was not permitted as the pier is a listed structure so each block had to be jacked up and lifted with webbing slings, the blocks weighed between 2t and 5.7t. No tracked plant was permitted onto the pier so a Franna crane was used to lift the granite blocks.

The blocks were lifted out and transported to the land where they were cleaned and dressed. The coping bed was levelled and prepared and the stones replaced in the same position as they were removed.

A 300mm concrete strip backing was poured to help secure the copings in position. Once the copings were in position the joints were pointed using Easipoint Marine Mortar from a man basket.



*Copings had to be removed without being drilled as the structure is listed*

## CHALLENGES

The work area was situated 500m out on the pier. Due to the potential risk of waves breaching the pier all plant and materials had to be removed from the pier at the end of each shift to prevent them from being washed away. Temporary works had to be designed and installed to prevent the open ends of the copings being washed away. A mansafe running line was used to prevent falls off the pier whilst working on the coping stones.

## PROGRAMME

The works had to be completed during a 4-week closure of the pier to the public. The works were complete on time and to budget.



*Copings pointed using Easipoint Marine Mortar*