

Reparação de Emergência do Quebra-Mar – Fase 3

Porto Militar – Praia da Vitória, Açores

Emergency Repair of the Breakwater – Stage 3

Military Port, POL Pier – Praia da Vitória, Azores

Work Description

The third and final stage of the reconstruction of the North Breakwater of Praia da Vitória Bay, a contract that the US Navy had awarded to **Seth**, on November 1, 2007, was concluded in March 26, 2009.

The job in question, budgeted at about € 8.5 million, took 15 months (3 months ahead of the date scheduled by the customer) and it involved the following tasks and quantities:

- Conclusion of the protection crown (30 metres wide) around the head, involving application of 19,300 tonnes of rock-fill of between 8 and 22 tonnes;
- Reprofilling the body of the breakwater over a distance of 540 m and application of 66,300 tonnes of rock-fill of between 2,5 and 8 tonnes used in the construction of the protection mantle along the inner side of the breakwater;
- Pre-fabrication of 392 C60/75 concrete Core-locs reinforced with 50mm synthetic-fibre;
- Placement of 516 new 33-tonne Core-locs;
- Shifting and replacing 100 existing Core-locs;
- Shifting and replacing 120 Antifers each of 20 tonnes;
- Concreting the superstructure of the head and placement of the Port of Praia da Vitória approach light having a visual range of 10 nautical miles.

NOTE: *The world's largest CORE-LOCS® at the time of this work.*

Equipment used

- 1 Crawler crane, 350 tons
- 1 Crawler crane, 250 tons
- 1 Hydraulic excavator, 60 tons
- 3 trailers, 40 tons
- 1 Wheel Loader Komatsu WA600 (60 ton)



Resumo da Obra

Work Summary

Cliente	US Navy United States Navy	<i>Client</i>
Projectista	Baird & Associates (USA)	<i>Engineering</i>
Data de construção	2007 - 2009	<i>Construction period</i>
Custo	€8,5 million (Phase 3)	<i>Cost</i>

