



## GEOFABRICS CASE STUDY



# STOCKTON SURF LIFE SAVING CLUB RESCUED BY ELCOROCK SEA WALL

## PRODUCTS USED

### ELCOROCK® GEOTEXTILE SAND CONTAINER

- Made in Australia with Texcel geotextile - a unique staple fibre blend of polyester and polypropylene, providing flexibility and allowing the product to resist the natural forces of the marine environment
- Filled with sand and used to form a stabilising and defensive barrier against erosion in harsh coastal environments by building breakwaters, sea walls, revetments, groynes and artificial reefs
- Highly resistant to abrasion, hydrocarbon, impact damage and UV degradation
- Precise size and shape can be made to meet site specific requirements



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## PROJECT DESCRIPTION

In 1996, severe beach erosion began to threaten the safety of the Stockton Beach Surf Life Saving Club. The Newcastle City Council was faced with two alternatives - demolish the existing building and construct a new club house, or construct a temporary sea wall to halt the erosion whilst a total coastal management strategy was completed.

## OUR SOLUTION

The Geofabrics Elcorock Geotextile Sand Container system was chosen due to its cost effectiveness, ease of installation and aesthetic appeal. A sea wall was constructed using a double layer of the Elcorock Sand Containers at a slope of 1:1.5. Each Elcorock Sand Container was placed using a rock grab attached to a 24 tonne excavator - approximately 15 Elcorock Sand Containers were placed per hour.

Natural vegetation was planted above the constructed sea wall and eventually grew, covering the front face of the Elcorock Geotextile Sand Container system. The natural look, feel and environmental protection capabilities of the Elcorock Geotextile Sand Containers make this system the ideal solution for popular beaches.

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