

# Level 2 rating for Mooring Dolphin after 6 years

STL Jetty & Wharf  
Lucinda, QLD

## Project partners

**Asset owner:** Sugar Terminals Limited (STL)

**Asset operator:** Queensland Sugar Limited (QSL)

**Applicator:** Advanced Aquablasting (AAB)

## Challenge

Stretching 5.76 kilometres into the Coral Sea, the Lucinda Jetty is the longest jetty in the Southern Hemisphere and conveys hundreds of thousands of tonnes of sugar out to shipping vessels each year. Wharf dolphin and berthing structures, including headstocks, are exposed to a severe marine environment and are also very difficult to access, making their maintenance both complex and costly.

## Coatings solutions

Dulux® Duremax® GFX was selected as the coating for the remediation of the Southern Mooring Dolphin. Offering incredible corrosion-resistance, the dense lamellar pigmentation of Duremax GFX delivers long term durability in severe marine environments.

The specification delivered was a Class 2.5 blast with two coats of Duremax GFX at 500 microns (µm) dry film thickness each coat.

Duremax GFX delivers cost savings by significantly extending the periods between maintenance.

## Coating rating after 6 years

Level 2\*

## Results

The assessment of Lucinda Jetty revealed headstock coatings to be in excellent condition:

- minor signs of breakdown: chalking due to high UV exposure
- no visible rust at welded sections
- excellent DFT values across all areas that could be inspected
- no coatings thickness measurements below original specification were recorded

\* Coating Inspection 5-Level Rating System

Coatings are inspected to determine the degree of deterioration. Ratings indicate the following condition status:

- No film damage other than dirt and minor staining
- Soiled, stained, ingrained dirt, chalking or loss of gloss
- Minor film damage (cracking, flaking or erosion of topcoats) in small areas
- Minor corrosion where up to 0.5% of the base metal is showing signs of rusting
- Widespread and excessive corrosion and damage

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Inspected coating