

**WELCOME TO WESTHAVEN.
THE HEART OF AUCKLAND BOATING.**

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Auckland
An Auckland Council Organisation

WESTHAVEN
MARINA AUCKLAND

Repairs to Westhaven Marina.

Improving durability and lifespan of
infrastructure.

Made in collaboration with

HERA



Dixon Manufacturing provided cost effective and innovative redesign solutions for the repair of Auckland's iconic Westhaven Marina. Overall, improving the durability and lifespan of their clients existing infrastructure.

The largest marina in the southern hemisphere, Westhaven forms an iconic part of not only the Hauraki Gulf, but Auckland's 'City of Sails' culture – as the home to over 2000 boats and a vibrant marine industry in the heart of the city.

Situation

Earmarked as an integral part of Panuku Development Auckland's Westhaven Plan to improve facilities for boat owners and the way water space is utilised – ensuring the marina's existing infrastructure was safe and able to cope with predicted increases in load and demand was imperative. However, after being in operation for more than 70 years, finding cost effective and suitable material replacements able to withstand the elements and heavy duty use was a must.

As a busy boating facility, works also had to be delivered in a live environment with as little disruption to users as possible – following a gradual upgrade programme over time.

Solution

Traditionally the marina utilised galvanised steel in its structures due to its protective coating of zinc making it corrosion resistant when exposed to moisture. Dixons were able to demonstrate stainless steel was a much better option due to its chromium make up ensuring a protective layer is always in place, in comparison to galvanized steels coating which eventually wears away – providing a stronger, longer lasting and cost effective material substitute, supported by detailed cost comparisons for the client.

Dixon's consultation during the pre-production stage led to simple redesign elements that made a real difference, such as slotting frames instead of bolting them. This not only made the marinas frames more adaptive, but reduced installation time by avoiding the need to re-drill bolt holes - minimising disruption to the public and allowing Dixon to effectively meet project deadlines through a phased delivery approach.

Result

Dixon Manufacturing's strong consultation engagement has led to the delivery of several project improvements – providing valuable cost savings across the life of the project with robust material use and clever design.

So far their contributions to Westhavens promenade, Y and Z pier and pile mooring development will help their clients achieve plans to ensure the marina can support future growth over the next 30 years – with their success now seeing them extend services to other marinas throughout New Zealand under the endorsement of the Marina Operators Association.

Client: Panuku Development Auckland
Duration: January 2016 – Ongoing (maintenance)
Location: Auckland, New Zealand
Project value: NZD\$500,000 per year



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