



CASE STUDY

The Aurizon logo, consisting of a stylized diamond icon made of four colored triangles (yellow, orange, red, and blue) to the left of the word "AURIZON" in a bold, sans-serif font.

Aurizon Kalgoorlie | West Kalgoorlie Container Terminal | 1,846m²

The hardstand at Kalgoorlie Container Terminal, composed of interlocking pavers and reinforced concrete, has deteriorated under heavy vehicular loads, including quad road trains and full-laden reach stackers. The interlocking pavers have deformed, causing uneven surfaces, while the reinforced concrete has deteriorated to the point of exposing steel reinforcements.

SOLUTION

Instead of a costly and time-consuming full reconstruction, Rombus provided an innovative solution that minimized downtime, costs, and carbon emissions. By stabilizing deformed areas with a sand mixture and overlaying the existing concrete and interlocking pavers with our modular system, we delivered a faster, stronger, and more sustainable alternative to traditional repairs.



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OUTCOME

The Rombus overlay system at the Kalgoorlie Container Terminal delivered significant cost savings, environmental benefits, and reduced downtime:

- **Cost Savings:** ~\$350,000 by eliminating the need for full slab reconstruction.
- **Carbon Emissions Avoided:** >172,785 kg by reducing concrete use and earthworks.
- **Recycled Plastic Used:** 9,876 kg of 100% locally sourced recycled polypropylene.
- **Reduced Downtime:** Enabled slab use within 7 days, saving ~42 days of operational delays.

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