



Wagners Composite Fibre Technologies (CFT)

Boardwalks

Whether you need walkways through mangroves or boardwalks around the coastline, Wagners Composite Fibre Technologies (CFT) will supply the perfect boardwalk infrastructure for you.

Wagners CFT has designed, supplied and constructed Fibre Reinforced Polymer (FRP) boardwalks around the globe from the sweltering tropics to the burning deserts and snow-capped mountaintops.

Our FRP structures have proven their unique ability to withstand the harshest of environments while providing low maintenance, long life assets for the local community through durability and strength.

Designed to meet local codes and conditions, Wagners CFT can incorporate requirements for mobility or disability access including loads up to 10 tonnes for emergency vehicles.

Wagners new Environmental Product Declaration (EPD) gives our customers credible environmental information about our products that has been independently verified, is recognised globally and can be used to make educated decisions on material selection for projects which helps reduce global warming and meet 2030 carbon targets.



Wagners CFT Boardwalk solutions are constructed from Square Hollow Section (SHS), Rectangular Hollow Sections (RHS) and Circular Hollow Sections (CHS) which are certified Australian Made.

Performance Advantages



Durable with an expected 100-year design life



Inert will not rot, rust and corrode



Resistant to termites and acid sulfate soils



Lightweight, making it safer to handle, transport and install



Modular by design so can be assembled off-site and craned into place saving you onsite time and expenses whilst reducing weather impacts to your project



Non-leaching, so will not release harmful substances into the environment making it suitable for areas of high conservation value



Budget friendly – with reduced maintenance and replacement cycles resulting in significant savings over the lifetime of the structure



Plus structures made from FRP contribute to decarbonisation in construction and reducing global warming through **less embodied carbon**.

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wagnerscft.com.au

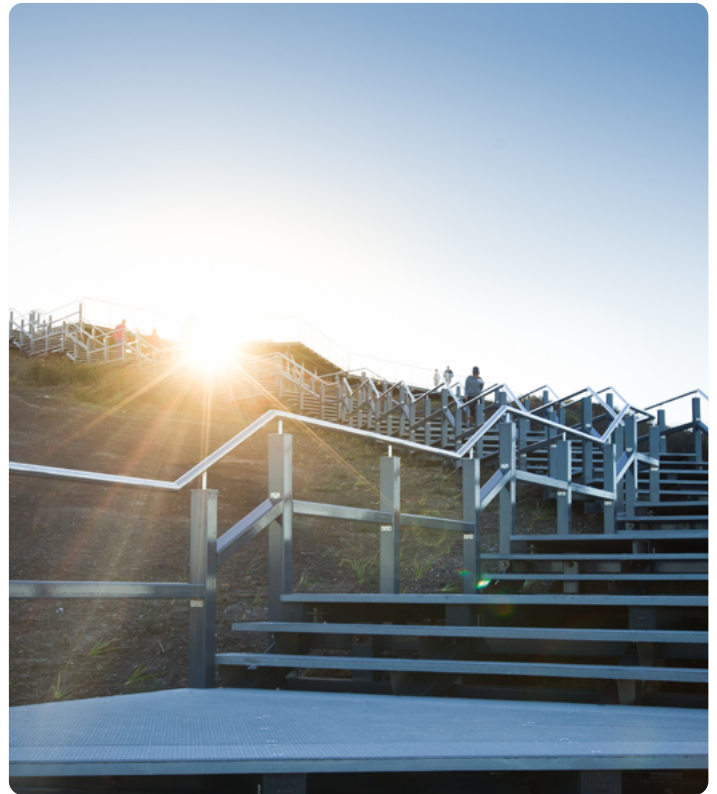
Custom Design

Wagners FRP boardwalks are fully customised to suit every application and provide a solution for your every need, while at the same time taking into account budget, timeframes, safety, design, mobility access, aesthetics, longevity and maintenance requirements.

Our composite boardwalks and other structures can be supplied to the construction site as fully or partially pre-assembled, in kit form, or for full on-site assembly. Your project may include multiple components from stairs, platforms, ramps, decking (or grating) to pedestrian bridges and with fully customizable hand and kick rail options.



Custom designed boardwalks for wetlands, beach access, sand dunes, riverbanks, nature reserves, National Parks or anywhere you are looking to reduce foot traffic impact on the environment or improve accessibility.



Code Compliance

We have developed design methodologies for composite boardwalks from the following standards:

- **AS 1657:** Design for walkways, platforms, stairways and ladders
- **AS 2156:** Walking tracks, infrastructure design
- **AS/NZS 1170:** Structural design actions
- **AS/NZS 1428:** Design for access and mobility

The design of FRP structures as per ASCE/SEI 74-23 and Eurocomp design code differs slightly from that of traditional materials in that the 'serviceability' criteria generally governs the design. Typically, traditional materials are designed primarily for strength and 'serviceability' checks are performed. But due to the high strength-to-stiffness ratio of FRP profiles compared to steel, FRP structures are designed to meet the serviceability/stiffness criteria and as a result contain large strength reserves.

Wagners CFT also meets the international management standards for:



T +61 7 4637 7777
E cftsales@wagnerscft.com.au



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