

## Warrnambool Beach Access Staircase

This beach in Victoria is a popular destination for families and has a rich maritime heritage. The city council is committed to encouraging biodiversity on the coast, and protecting the existing dunes and vegetation.

To ensure ease of access for beach goers, the city council deemed that a beach access staircase was required. Treadwell was engaged to design, engineer and supply a beach access FRP staircase.

### Project Challenges

- Needed to be corrosion resistant being exposed in a coastal environment.
- Had to withstand harsh outdoor environmental conditions.
- Required a pre-engineered and fabricated system for ease of installation.
- Had to be able to combat seawater wave loading.

### PROJECT INFORMATION

|                     |   |
|---------------------|---|
| Project Category:   | Recreational Public Infrastructure                    |
| Scope of Work:      | Design, engineer and supply of beach access staircase |
| Treadwell Products: | NatureTREAD™  |

### Treadwell Solution:



**1** As part of the exclusive Treadwell NatureTREAD™ range, high performance GratEX® FRP grating was specified in building the structure as a preferred solution over traditional materials.

**2** ArchitEX™ FRP beams were specified as the structural support.

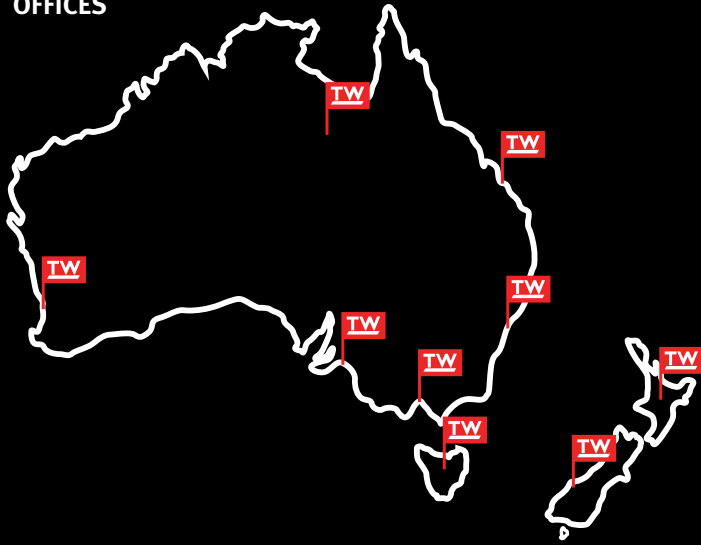
**3** GratEX® FRP stair treads are moulded with solid edge nosing as a single component, ensuring durability and dependability in high traffic situations.

**4** As FRP is lightweight and easy to install, heavy machinery is not required, protecting the natural beach environment.

**5** Treadwell FRP products are corrosion resistant and will withstand the corrosive coastal environment. It is virtually maintenance free, keeping maintenance costs at a minimum.

**6** FRP is simply fabricated and modified on site. This means there is no need for any hot works permit.

## OFFICES



## ABOUT TREADWELL

At Treadwell Group, our core business divisions have been developed utilising the latest fibreglass reinforced plastic (FRP) technology. With constant innovation and evolution of our offerings, we grow in competence with each experience in delivering unparalleled solutions to a diversified index of industries which include the water and wastewater, mining, oil and gas, public infrastructure, marine sectors. The progression of our products has been focused on ensuring extended design life in varied applications, enabling us to support our continuing commitment to satisfy and add value to our client's endeavours.

### Australia

#### SOUTH AUSTRALIA

▶ **ADELAIDE (HEAD OFFICE & WAREHOUSE)**

58 DEEDS ROAD  
NORTH PLYMPTON, SA 5037

▶ **STRATHALBYN (FACTORY & WAREHOUSE)**

22 DUNREATH ROAD  
STRATHALBYN, SA 5255

#### VICTORIA

▶ **MELBOURNE (BRANCH OFFICE & WAREHOUSE)**

1/38-40 AYLESBURY DRIVE,  
1 CAILIN PL, ALTONA, VIC 3018

#### NEW SOUTH WALES

▶ **SYDNEY (SERVICED OFFICE)**

LEVEL 6, 10 HERB ELLIOT AVENUE  
SYDNEY OLYMPIC PARK, NSW 2127

▶ **WAGGA (REGIONAL OFFICE)**

BALL PL  
EAST WAGGA WAGGA, NSW 2650

#### NEW SOUTH WALES

▶ **SYDNEY (DISTRIBUTION CENTRE)**

2 COAL PIER ROAD  
BANKSMEADOW, NSW 2109

#### QUEENSLAND

▶ **BRISBANE (BRANCH OFFICE & WAREHOUSE)**

LOT 3, 6 GOODMAN PLACE  
MURRARI, QLD 4172

#### WESTERN AUSTRALIA

▶ **PERTH (BRANCH OFFICE & WAREHOUSE)**

4 ELMSFIELD ROAD  
MIDVALE, WA 6056

#### TASMANIA

▶ **BURNIE (DISTRIBUTION CENTRE)**

8 RIVER ROAD  
WIVENHOE, TAS 7320

### New Zealand

#### NORTH ISLAND

▶ **AUCKLAND (BRANCH OFFICE & WAREHOUSE)**

110B CRYERS ROAD  
EAST TAMAKI, AUCKLAND 2013

### Australia

P 1800 246 800

sales@treadwellgroup.com.au

F 1300 763 521

treadwellgroup.com.au

### New Zealand

P 0800 246 600

sales@treadwellgroup.co.nz

F 0800 244 600

treadwellgroup.co.nz