

BOARDWALKS

STAIRCASES

BALUSTRADES

SHELTERS

ACCESS RAMPS

WATERCRAFT ACCESS

JETTIES



**NatureTREAD™**  
Composite FRP Recreational Public Infrastructure









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## The Treadwell Edge

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Fibre Reinforced Plastics (FRP) is the revolutionary construction material that has untapped potential to reach out into uncharted territories. Its exceptional benefits provide higher returns unmatched by homogenous products or metallic alternatives, with the added advantage of leaving a smaller carbon footprint on the environment.

We keep abreast with industry improvements and continuously adapt to the ever-changing and demanding FRP industry. By offering optimal and affordable FRP solutions, we are dedicated to helping our clients avoid the challenges posed by the use of traditional alternatives.

### We pride ourselves on our 'Fit & Forget' FRP solutions.

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Treadwell has been applying excellent engineering strategies and design tactics since 1994 to extend both time and cost-efficient solutions to our clients across the globe. Our capabilities, resources and competence have grown over the years, enabling us to provide complete access (for example, boardwalks and jetties) and structural solutions that are increasingly being used in the recreational public infrastructure space.

We actively seek techniques that allow us to create quality FRP solutions, which in turn help save time and money, and remain innovators of FRP technology. We cultivate a strong culture of innovation and resourcefulness to allow us to implement the complete 'Fit & Forget' FRP solution.

## MAJOR TRADING PARTNERS



# Bespoke & Specialised Projects - Our Process Explained

## COMPLEX TURNKEY PROJECTS

Shipping is undertaken upon completion and our team follows through with you to ensure seamless delivery.

Treadwell receives an enquiry from you, our customer.

An initial consultation is arranged with our specialists to qualify your requirements and establish solution options.

A budget quotation is developed by Treadwell and presented.

Upon acceptance of our quotation, design and engineering commences and modelling and general assembly drawings developed.

Final detailing and production commence following sign-off or approval of submitted design.

**TREADWELL™**  
COMPLETE "Fit & Forget" SOLUTIONS

# Why work with Treadwell's NatureTREAD™ team

## Suite of Standard Designs

We have standard designs that have proven effective in various applications. These can be easily adapted to suit your project requirements, making design a quick and easy process, and gets your project completed quicker.

## In-house Engineering Team

Whether you're looking to upgrade existing, or install new infrastructure, we can support you with our design capabilities across all stages of your project lifecycle. Our qualified and experienced engineering team have provided turnkey as well as purely design-based projects. With a knowledgeable team, we are able to provide solutions to fit your requirements.



## Transport Capability

With our well-established partnerships with logistics partners across Oceania, complemented by our fleet of trucks and trailers in Australia, we are able to deliver your projects across the region efficiently and effectively, on time and in full.

## Fabrication Capability

Treadwell has a LEAN manufacturing facility, approximately 4000m<sup>2</sup> under one roof. Our automated CNC equipment, including state-of-the-art 90,000 PSI waterjet cutting system and beam line ensure minimal material wastage, and as such, eliminates excessive costs. Our internal design engineering department is able to provide design expertise and sign off engineering in all states of Australia (RPEQ and NT certified), and an on-site Quality Assurance team to perform the necessary checks



## Network of Approved Installation Contractors

Through years of experience, Treadwell has established a core group of reliable contractors that we can recommend for your projects, if you require.







## BOARDWALKS

Designed to your specifications and built to last. The flexibility of design capabilities means that our NatureTREAD™ boardwalks can be installed to suit all types of terrain conditions. Manufactured from FRP, these structures, whether installed in remote locations or public areas accessible to greater population, provide minimal environmental impact.

Boardwalks are designed and built to protect environmentally fragile or sensitive areas from damage. Commonly found over marshlands, wetlands, sand dunes, riverbanks and nature reserves, boardwalks provide access to users, minimising their impact on the natural environment.


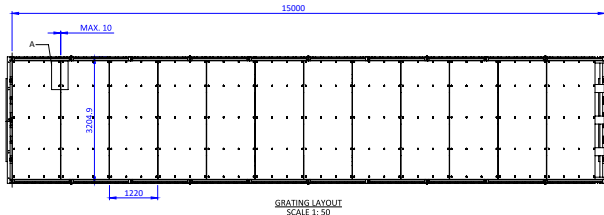

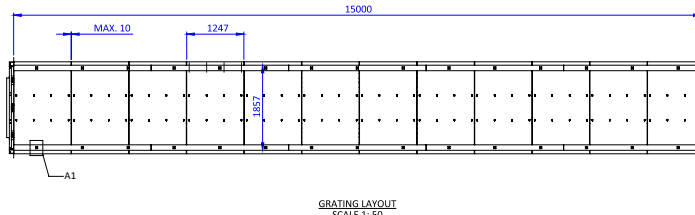

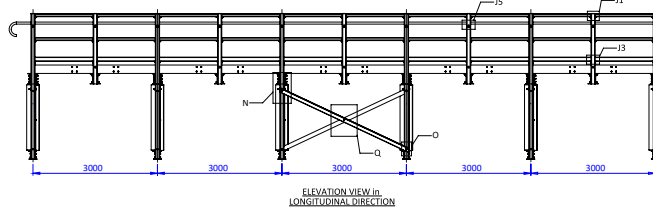
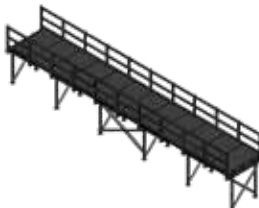
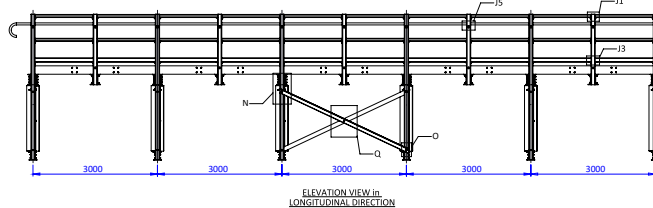
Boardwalks built from traditional materials of timber and steel are prone to deterioration and corrosion. Fibreglass Reinforced Plastic offer a longer design life, minimising maintenance, repair and replacement costs.

Treadwell offers design, engineering and installation of FRP boardwalks. Standard designs are available and custom designs are easily arranged.





# Boardwalk Standard Designs

Brighton Series Track Class 1 & 2, with kerb rail			
Boardwalk Clear Walking Width	Max. 3 metres		
Pile Spacing	Max. 3 metres		
Deck Height	0.95 metres off the ground		
AS 2156 Track Class 1 or 2	5 kPA, 3.6kN Point Load		
Brighton Series Track Class 3 & 4, with kerb rail			
Boardwalk Clear Walking Width	Max. 2.2 metres		
Pile Spacing	Max. 3 metres		
Deck Height	0.95 metres off the ground		
AS 2156 Track Class 3 or 4	3 kPA, 1.4kN Point Load		
Brighton Series Track Class 2, Murray Series Handrail, AS1428 Compliant			
Boardwalk Clear Walking Width	Max. 3 metres		
Pile Spacing	Max. 3 metres		
Deck Height	2.3 metres off the ground		
AS 2156 Track Class 2	5 kPA, 3.6kN Point Load		
Brighton Series Track Class 3 & 4, Murray Series Handrail, AS 1428 Compliant			
Boardwalk Clear Walking Width	Max. 3 metres		
Pile Spacing	Max. 3 metres		
Deck Height	2.3 metres off the ground		
AS 2156 Track Class 2	3 kPA, 1.4kN Point Load		





## STAIRCASES

The preferred choice over traditional materials like wood or metal, FRP staircases are constructed with a built-in anti-slip surface, and are able to withstand exposure to the corrosive coastal environment. With its lightweight characteristics, heavy machinery is not required for installation. This ensures the protection of the natural environment.



Treadwell's FRP decking, stair treads, structural profiles and balustrades work in cohesion to create a NatureTREAD™ solution of a durable and long-lasting staircase structure. Ideal for the outdoor environment, the aperture of the FRP decking and stair treads allow debris and water to fall through. This creates a self-maintaining anti-slip surface.

Constructed from premium resins systems, Treadwell's FRP staircases are suitable for exposure to the corrosive marine environment, as well as constant exposure to high UV experienced in Australia. Low thermal conductivity make it safe for users, and fire retardant additives ensure that these FRP materials are not self-propagating.



# Classic Staircase Design

Staircase		
Staircase Clear Walking Width	Max. 1.5 metres	 
Stringer Length	Max. 3.7 metres	
Slope Range	30° - 38°	
Handrail Post Spacing	Max. 2.0 metres	
AS2156 Trak Class 3 or 4	3kPA, 1.4kN Point Load	

Ground Connecting Staircase		
Staircase Clear Walking Width	Max. 1.5 metres	 
Stringer Length	Max. 3.7 metres	
Slope Range	30° - 38°	
Handrail Post Spacing	Max. 2.0 metres	
AS2156 Trak Class 3 or 4	3kPA, 1.4kN Point Load	





## BALUSTRADE

The NatureTREAD™ balustrade systems consider the differing requirements within the Australian Standards. Mainly constructed using the ArchitEX™ range of structural profiles, these systems are complemented with balustrade infill systems, DDA compliant grab rails, bike safe rub rails and many more features.

Balustrade Handrails are used to ensure safety of the public as well as provide support. NatureTREAD™ balustrade systems are manufactured using the premium range of ArchitEX™ FRP structural profiles. These systems comprise of a range of materials including steel components like grab rails.

The NatureTREAD™ balustrades are designed and engineered to rigorous Australian Standards including AS1170, AS2156 as well as AS1428 and AS5100.

Available in both standard and customised shapes and designs, Treadwell's balustrade profiles have a unique surface finishing system ensuring UV stability in exposed applications, directly eliminating the need for costly surface treatment.



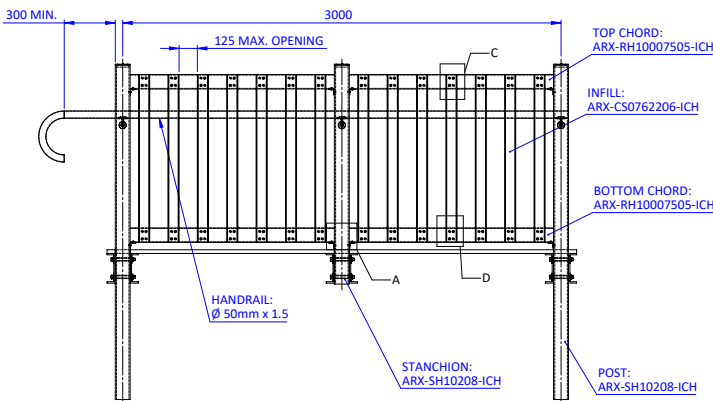


# Balustrade Standard Designs

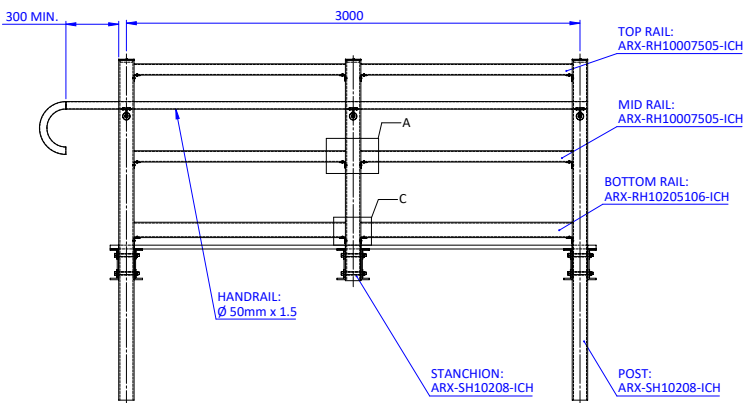
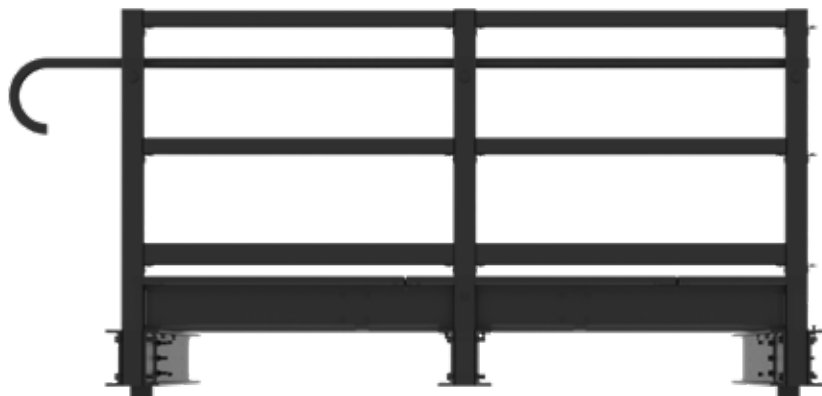
## Grange Series Balustrades, AS1428 Compliant



Grange Series Balustrades are available with AS1428 and AUSTRROAD 6A Compliance.



## Murray Series Balustrades, AS1428 Compliant



ARX-SH1008 is selected as post for standard design, which can be replaced with other profiles as per engineering requirement. Stanchion and post can be a continuous profile. Post spacing is determined as per engineering requirements. Bracing profile is determined as per boardwalk design.





## SHELTERS

NatureTREAD™ shelters are the solution of choice when requiring shade and protection from the elements in marine environments. Being constructed from the ArchitEX™ range of structural profiles, these shelters are inert, corrosion resistant and UV stable. The lightweight properties allow for easy installation without the requirement for heavy machinery.



Treadwell's structural profiles provide the frame of the shelters built to shelter you from the sun, rain and wind. Structures installed in the marine environment need to withstand being blasted by sand, wind, and salt in addition to the usual outdoor elements. As a non-porous material, FRP do not run the risk of absorbing moisture and its related challenges. A prime example of our shelter structures in action can be seen on the beach jetties of Henley Beach and Semaphore in South Australia.

Our FRP products are lightweight enough to maintain the structural integrity of existing timber jetties, without adding excessive weight loading. Backed by our team of engineers, structures are designed according to the relevant standards and codes, while maintaining aesthetic appeal.





## ACCESS RAMPS

Where it is difficult to use steps or gently sloped walkways to navigate changes in level, ramps provide a better alternative for people using wheelchairs or other mobility aids, and strollers. Ramps are also ideal for users carrying heavy water sports equipment.

Access ramps have become increasingly popular among users, especially in beach areas as it enhances the beach-going experience for users with mobility challenges. These ramps provide and improve access to the beach and ocean.







## WATERCRAFT ACCESS

NatureTREAD™ Watercraft Access structures are the ideal solution where tidal influences are extreme and traditional floating systems are not feasible.

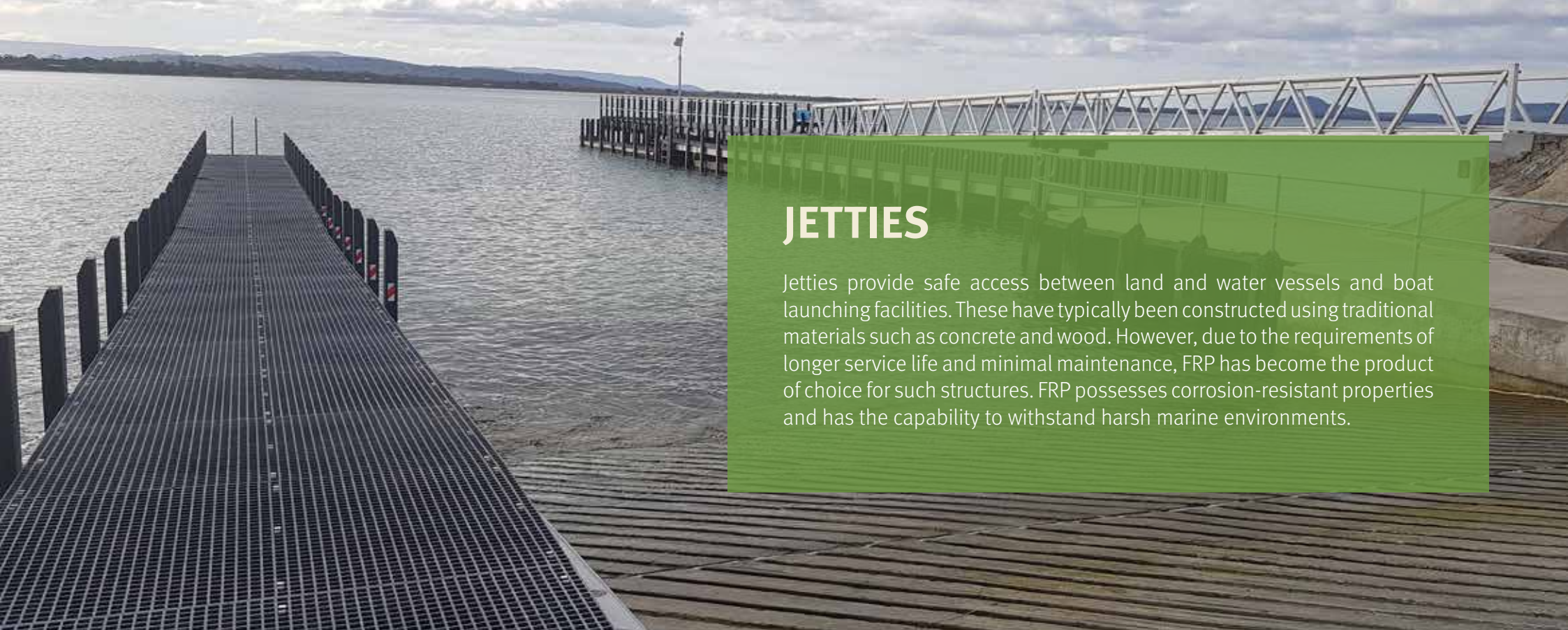
These structures can be customised to suit the requirements and purpose of the infrastructure. The AS4586 compliant anti-slip surface can be engineered to meet the slip requirements without causing damage to water equipment being dragged along it.

Recreational water activities play a significant role in Australia life. Structures like those pictured here not only give people access to the water but also play a key part in environmental protection of dunes, mangroves and many other natural beauties.

These Watercraft Access Structures are combination of ArchitEX™ FRP structural profiles, GratEX® FRP grating and metallic bracketry and hardware. All structures are designed to the relevant Australian Standards.







## JETTIES

Jetties provide safe access between land and water vessels and boat launching facilities. These have typically been constructed using traditional materials such as concrete and wood. However, due to the requirements of longer service life and minimal maintenance, FRP has become the product of choice for such structures. FRP possesses corrosion-resistant properties and has the capability to withstand harsh marine environments.

The NatureTREAD™ range of FRP has very low thermal conductivity ensuring that surfaces do not retain heat like traditional materials such as timber and concrete. This makes it a product of choice for such structures as it is suitable for bare feet.

As FRP is resistant to rot and rust, these structures provide a long service life with minimal maintenance.







## BRIDGES

The NatureTREAD™ range of bridges are manufactured to withstand the vast climate differences experienced in Australia. The combination of efficient supply costs, low installation costs, minimal maintenance, and long service life provide a competitive long-term solution.

Bridges constructed from traditional materials of timber and steel are increasingly being replaced by FRP bridges. FRP bridges are more cost-effective than their traditional counterparts as they require substantially lower maintenance and replacement. Being lightweight and easily pre-fabricated greatly reduces installation times and eliminates the need for heavy machinery. This further improves cost savings as labour time and equipment operational costs are greatly reduced.

Treadwell's FRP products are constructed with fire retardant additives, which mean that in the event of a fire, our products will not feed the flames. Our FRP is also corrosion resistant with UV inhibitors, making it ideal for the outdoor environment.





# CASE STUDY - CORRIDOR OF OAKS



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply FRP grating and structural profiles
Treadwell Products:	NatureTREAD™ FRP Solution EX-Series® GratEX® FRP Mini Mesh ArchitEX™ FRP Structural Profiles

**Faulconbridge, New South Wales** – The Corridor of Oaks commemorates the memory and legacy of Sir Henry Parkes, and the prominent role he played in bringing about the federation of the Australian colonies. The Corridor is also significant of the successive Prime Ministers of Australia since Federation. In 2022, plans were established to upgrade the Corridor, to make it accessible for visitors and to improve amenities. As part of the upgrade, an elevated walkway was designed to protect the sensitive root system of the trees. This would also help visitors avoid injuries while trying to walk around the tree roots. Treadwell was engaged to supply the FRP products for this walkway.

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## Treadwell Solution:



1

Treadwell FRP is lightweight, allowing for quick installation without the need for heavy machinery. This also presents minimal loading impact to the surroundings.

2

Treadwell FRP has corrosion-resistant properties, as well as UV inhibitors, ensuring that structural integrity is maintained even in the exposed outdoor environment.

3

EX-Series® GratEX® FRP grating has anti-slip grit impregnated into the surface, ensuring optimal safety for users.

4

This NatureTREAD™ FRP structure is also compliant to the relevant standards for accessibility.

5

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

6

Given the nature of FRP, any system utilizing it is virtually maintenance free, keeping maintenance costs to a minimum.



# CASE STUDY - ARNO BAY BOARDWALK



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply FRP grating and structural profiles
Treadwell Products:	NatureTREAD™ FRP Solution NatureTEAD™ FRP Balustrade System EX-Series® GratEX® FRP Mini Mesh Grating ArchitEX® FRP Structural Profiles Related fasteners

**Eyre Peninsula, South Australia** – Located in the east coast of the Eyre Peninsula you will find Arno Bay, a favourite amongst recreational fishermen. Accessible via a new boardwalk that was constructed by community volunteers, this 1.4km walk is wheelchair-friendly and features three jetties for the keen fishermen and those looking to take a dip.

Treadwell was engaged to supply the FRP grating, structural profiles and balustrades for this boardwalk.

## Treadwell Solution:



1

The lightweight nature of FRP ensures minimal impact on the surroundings as installation is done without the need for heavy machinery, and there is minimal weight loading on the natural environment.



2

The openings in GratEX® FRP Mini Mesh grating allows for water and debris to fall through, creating a self-maintaining anti-slip surface, while allowing ventilation and sunlight through for the vegetation beneath to survive.



3

GratEX® FRP Mini Mesh grating and ArchitEX® FRP structural profiles are constructed from premium resin systems that include corrosion resistant properties, UV inhibitors and a fire-retardant formula, making it ideal for this outdoor application.

4

NatureTREAD™ FRP Balustrades provide support for users on designated sections of the boardwalk.

5

Given the nature of FRP, any system utilising it is virtually maintenance free, keeping maintenance costs to a minimum.



# CASE STUDY - HENLEY BEACH SHELTER AND BALUSTRADE



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Designing and fabricating the shelter and balustrade
Treadwell Products:	NatureTREAD™ ArchitEX™ FRP Structural Profiles

One of the liveliest places in Adelaide, the Henley Beach area has over the last couple of years undergone major upgrades including the Henley Square. Long stretches of pristine sandy beach where the jetty sits, picturesque coastal walks, delightful dining and entertainment nearby, with magnificent sunsets draw locals and visitors to this beautiful beach.

Treadwell Group was engaged to assist with the supply of a fibreglass reinforced plastic (FRP) shelter and balustrading system for the construction of the entirely new jetty.

Treadwell assisted throughout the entire project which included design consultancy, material supply & fabrication services.

## Treadwell Solution:



1

As part of the exclusive NatureTREAD™ range, high performance ArchitEX™ FRP structural profiles were specified in building the structure and providing a more sustainable solution over traditional materials.

2

The fibreglass beams, columns and associated sections from the extensive ArchitEX™ range are produced from high quality FRP through a pultrusion process, which ensures satisfactory results even in challenging conditions.

3

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

4

To make the structure aesthetically appealing, the standard colours of the system can be made to match the design team's requirements.

5

Being lightweight and easy to install, FRP is very manageable during construction.

6

Given the nature of FRP, any system utilising it is virtually maintenance free, thus keeping maintenance costs as low as possible.





# CASE STUDY - HAPPY VALLEY ACCESS RAMP



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Design and supply FRP products
Treadwell Products:	NatureTREAD™ FRP Solution Grange Series Bike Safe FRP Balustrades EX-Series® GratEX® FRP Mini Mesh Grating ArchitEX™ FRP Structural Profiles

**Happy Valley, South Australia** – Completed over 120 years ago, the Happy Valley Reservoir is one of South Australia's oldest reservoirs. One of the 10 reservoir reserves now open to the public, visitors can look forward to walking trails, picnic areas with shelters and barbecues at this reserve. As part of the commitment to improve access for visitors, an access ramp was installed.

Treadwell provided design and supply for this FRP ramp.

## Treadwell Solution:



1

Treadwell's FRP products are constructed from premium resins with corrosion resistant and fire-retardant properties, as well as UV inhibitors, making it ideal for this outdoor application.

2

The lightweight nature of FRP means that heavy machinery is not required for installation. This also minimises the weight loading of the entire structure on the environment.

3

The openings of the GratEX® FRP Mini Mesh allows for water and debris to fall through, creating a self-maintaining anti-slip surface.

4

FRP is durable and has a long design life, easily outlasting structures built from traditional materials. This means it is virtually maintenance free, keeping maintenance costs to a minimum.

5

With ample stockholdings, Treadwell was able to manage the timeline expectations for this project.





# CASE STUDY - REMARKABLE CAVES VIEWING PLATFORM & STAIRCASE



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply FRP products
Treadwell Products:	NatureTREAD™ FRP Solution ArchitEX™ FRP Structural Profiles GratEX® FRP Square Mesh and Mini Mesh Grating & Stair Treads

Located along the southern coastline of Tasmania, Remarkable Cave offers a truly unforgettable experience. Once a deep and covered cave, the back of the cave has collapsed, with the debris long since washed out to sea.

As part of infrastructure upgrades, the existing viewing platforms and stair access were replaced. These improvements are part of the tourism plan to encourage visitors to extend their stay in the Tasman Peninsula to help sustain jobs in the tourism and service industries.

Treadwell was engaged to supply the various FRP structures for these upgrades.

## Treadwell Solution:



1

GratEX® FRP grating is built to withstand high weight and wave loading, compliant to the relevant standards and codes.

2

Treadwell's FRP products are constructed from premium resin systems with an anti-slip surface and corrosion resistant properties.

3

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

4

ArchitEX™ FRP Structural Profiles provided the durable and strong foundation of the structure.

5

A shelter was constructed using GratEX® FRP Square Mesh grating to prevent water and vegetation debris buildup, while allowing ventilation.





# CASE STUDY - SPEERS POINT JETTY



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply FRP products
Treadwell Products:	NatureTREAD™ FRP Solution ArchitEX™ FRP Structural Profiles MoultrEX® FRP Grating

Speers Point, New South Wales – The ageing jetty underwent an upgrade to a more usable one, which includes a lower-level landing to improve access for a wide variety of vessels across all tides. This was one of seven jetty and boat ramp upgrades in the Lake Macquarie electorate, supported in the past five years. An important recreation, sporting and cultural hub for Lake Macquarie and the region, this new jetty will provide safe access for the boating community in the years to come.

Treadwell was engaged to supply the FRP structural profiles as well as the grating for this upgrade.

## Treadwell Solution:



**1** ArchitEX™ FRP structural profiles are created through a pultrusion process which contributes to bi-directional stability and longitudinal strength.

**2** MoultrEX® FRP grating boasts greater amount of glass fibres offering excellent load bearing and resilience characteristics, while upholding the highest level of resistance to the elements and corrosion.

**5** Given the nature of FRP, any system utilising it is virtually maintenance free, keeping maintenance costs to a minimum.

**3** Treadwell's FRP products are constructed from premium resins systems which include corrosion resistant properties and UV protection.

**4** Being lightweight and easy to install, FRP is very manageable during construction.



# CASE STUDY - STURT LINEAR PARK PEDESTRIAN BRIDGES



## PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Supply FRP products for 3 pedestrian bridges
Treadwell Products:	NatureTREAD™ FRP Solution ArchitEX™ FRP Structural Profiles GratEX® FRP Mini Mesh Grating

Sturt River Linear Park in the Coromandel Valley, South Australia is part of a 30 year masterplan for recreational activity for Greater Adelaide. The third stage was recently completed, allowing for easy and safe commute for pedestrians, cyclists and equestrian use. The future stage of this masterplan will see a continuous trail link all the way to the Patawalonga Basin in Glenelg North. Bridges were constructed at river crossings to provide the community with the opportunity to enjoy the views of the wildlife and rock foundations along the river.

Treadwell was engaged to design, engineer and supply three bridges, complete with collapsible handrail system for major flood events. This also included an additional boardwalk to complement one of these bridges.

## Treadwell Solution:



1

Shear pin bolts were used on the handrail posts stanchions. This allowed the railings to be collapsible in the event of flooding, minimising flood damage.

2

GratEX® FRP Mini Mesh is constructed with an anti-slip surface, corrosion resistant properties and UV inhibitors. This allows for enhanced safety for the user, and assures structural integrity even in this exposed application.

3

This structure was constructed according to the relevant compliance codes for pedestrians and cyclists.

4

As FRP is easily modified on site without the need for any hot works permit, fire risk concerns are eliminated.

5

Given the nature of FRP, any system utilising it is virtually maintenance free, keeping maintenance costs to a minimum.





# GratEX® STANDARD SQUARE MESH



## What is GratEX® Standard Square Moulded Fibreglass Grating?

Treadwell's GratEX® Standard Square Moulded FRP grating is a high strength, single piece construction mesh panel product. Treadwell offers both standard panel sizes as well as the option of custom panels made to order from your drawings, or alternatively, drawings provided by Treadwell's drafting department.

Cost-effective GratEX® Standard Square Mesh panels allow for easy on-site fabrication/trimming whilst ensuring that wastage is minimised. Load bearing bars in both directions likewise allow for use without continuous side support and so contribute to cost effectiveness.

GratEX® offers all the benefits available with grating made from other materials plus a host of superior benefits unequalled by steel or other metal alternatives, and hence has over time become the first choice in application where zero maintenance is key.

For load and deflection data, please refer to the latest EX-Series® Grating Product Guide.

GTX-253838SS		
Isometric View 	Plan View 	Elevation View 
GTX-303838SS		
Isometric View 	Plan View 	Elevation View 
GTX-383838SS		
Isometric View 	Plan View 	Elevation View 
GTX-505050SS		
Isometric View 	Plan View 	Elevation View 

### Clip-Top

STANDARD M	3D	PLAN	ELEVATION
Hole Diameter: 8mm Material type: 316 st/st Threaded hole: N/A			

### Clamp - Underside

J - UNIVERSAL	3D	PLAN	ELEVATION	SIDE ELEVATION
Hole Diameter: N/A Material type: 316 st/st Threaded hole: N/A				

H	3D	PLAN	ELEVATION
Hole Diameter: 8mm Material type: 316 st/st Threaded hole: N/A			







# GratEX® MINI MESH



## What is GratEX® Mini Mesh Moulded Fibreglass Grating?

Treadwell's GratEX® Mini Mesh carries all the same benefits as the Standard Square Mesh plus more. This grating typically has an aperture of approximately 19mm – 20mm meaning that the actual opening is around 12mm – 13mm. The GratEX® Mini Mesh is compliant to the following standards:

- AS 1428 (Set)-2010 - Design for access and mobility series, provides design requirements for buildings encompassing the specific needs of people with disabilities.
- AS 1657-2013 - Fixed platforms, walkways, stairways and ladders - design, construction and installation.
- AS 4586-2013 - Slip resistance classification of new pedestrian surface materials.

Stock holdings of the GratEX® Mini Mesh cover a large range of panel sizes and thicknesses. However, it is recommended availability be confirmed for project requirements.

For load and deflection data, please refer to the latest EX-Series® Grating Product Guide.





GratEX® MINI MESH

GTX-141919M1, GTX-142020M1		
Isometric View	Plan View 38.1mm 19.05mm 38.1mm 40 mm 20 mm 40 mm	Elevation View 7mm 7mm 7mm 5.8mm 5.8mm 14mm
GTX-221919M1, GTX-222020M1		
Isometric View	Plan View 38.1mm 19.05mm 38.1mm 40 mm 20 mm 40 mm	Elevation View 6.4mm 6.4mm 5.2mm 5.2mm 22mm
GTX-251919M1, GTX-252020M1		
Isometric View	Plan View 38.1mm 19.05mm 38.1mm 40 mm 20 mm 40 mm	Elevation View 6.4mm 6.4mm 5.2mm 5.2mm 25mm
GTX-301919M1, GTX-302020M1		
Isometric View	Plan View 38.1mm 19.05mm 38.1mm 40 mm 20 mm 40 mm	Elevation View 7mm 7mm 5.8mm 5.8mm 30mm

GTX-381919M1, GTX-382020M1			
Isometric View	Plan View	Elevation View	
GTX-502525M1			
Isometric View	Plan View	Elevation View	
MINI MESH M			
	3D	PLAN	ELEVATION
Hole Diameter: 8mm Material type: 316 st/st Threaded hole: N/A			
MINI MESH J			
	3D	PLAN	ELEVATION
Hole Diameter: N/A Material type: 316 st/st Threaded hole: N/A			



# GratEX® MICRO MESH



## What is GratEX® Micro Mesh Moulded Fibreglass Grating?

Treadwell’s GratEX® Micro Mesh is the preferred product in applications where both product longevity and aperture sizes are points of concern. With an opening size of 6mm, this product is also heel safe, meaning that it is the best decking option for structures where social events such as weddings and parties are held.

The aluminium oxide anti-slip surface which is impregnated into the surface is available in 10 different levels ranging from heavy offshore Marine Grade to Pedestrian (wet barefoot friendly) Grade. Panels can be supplied in a range of sizes and thicknesses.

For load and deflection data, please refer to the latest EX-Series® Grating Product Guide.

GTX-251313M2		
Isometric View 	Plan View 	Elevation View 
GTX-301313M2		
Isometric View 	Plan View 	Elevation View 
GTX-381313M2		
Isometric View 	Plan View 	Elevation View 
S - Clip	F-FA(SC)-M8*60-BH-SS316	F-FA(ST)-G-6.3*70-IHX-SS316



# GratEX® SOLID SURFACE MESH



## What is GratEX® Solid Surface Moulded Fibreglass Grating?

Treadwell's GratEX® Solid Surface moulded FRP grating is based on the Standard Square moulded FRP Grating with a fully covered top.

This product is used in applications where apertures are not required or cause concerns for the public. This product is typically used for pedestrian bridges and elevated walkways where the public commute for business.

The GratEX® Solid Surface Moulded FRP Grating is available with numerous surface options including our anti-slip and chequered surfaces. Panels are available in many sizes and thicknesses.

For load and deflection data, please refer to the latest EX-Series® Grating Product Guide.

GTX-253838F3, GTX-253838F5		
Isometric View	Plan View	Elevation View
GTX-303838F3, GTX-303838F5		
Isometric View	Plan View	Elevation View
GTX-383838F3, GTX-383838F5		
Isometric View	Plan View	Elevation View
GTX-505050F3, GTX-505050F5		
Isometric View	Plan View	Elevation View

\* (3) or (5) refers to the option of a 3mm or 5mm Solid Top

S	3D	PLAN	ELEVATION
Hole Diameter: 5mm Material type: 316 st/st Threaded hole: N/A			



# GratEX® MOULTRUDED FIBREGLASS GRATING



MTX-381025SR		
Isometric View	Plan View	Elevation View
MTX-381038SR		
Isometric View	Plan View	Elevation View
MTX-501025SR		
Isometric View	Plan View	Elevation View

## What is MoultrEX® Moultruded Fibreglass Grating?

Treadwell's MoultrEX® fibreglass moultruded grating is the first grating to combine the high performance of fibreglass reinforced plastic moulded and pultruded grating construction at a cost more competitive with metal products. With the introduction of this revolutionary product, a new class of grating is now available to meet the needs of both pedestrian and industrial use. This uniquely rigid product is able to perform well at exceptionally larger spans than other products available, meaning substructure can be reduced resulting in savings.

The aluminium oxide anti-slip surface which is impregnated into the surface is available in 10 different levels ranging from heavy offshore Marine Grade to Pedestrian (wet barefoot friendly) Grade. Panels can be supplied in a range of sizes and thicknesses.

For load and deflection data, please refer to the latest EX-Series® Grating Product Guide.

## Clip-Top

M-Clip	Isometric View	Plan View	Elevation View
Hole Diameter: 8mm Material type: 316 st/st Threaded hole: N/A			

## Clip Underside

M-Clip	Isometric View	Plan View	Elevation View
Hole Diameter: 5mm Material type: 316 st/st Threaded hole: N/A			







# STAIR TREADS



## Can I Use FRP for Stair Treads?

The EnviroTREAD™ range of Stair Treads includes both open surface and closed surface options and a range of surface patterns, colour and leading edge nosing options.

All GratEX® and MoultrEX® Premium and Standard Stair Tread options are moulded with the solid leading edge nosing as an integrated single stage operation. This increases the rigidity and durability of the entire leading edge ensuring reliable performance in high traffic scenarios. All the treads with abrasive leading edge nosings are manufactured to conform to AS-1657-2013.

The GratEX® and MoultrEX® Stair Tread nosings are typically stocked in colours that contrast by 30% with the primary tread colour, as per AS1657-2013. This ensures maximum visual awareness of the stair treads forward edge for the public utilising the stairways and consequently enhancing the OHS safety ratings.

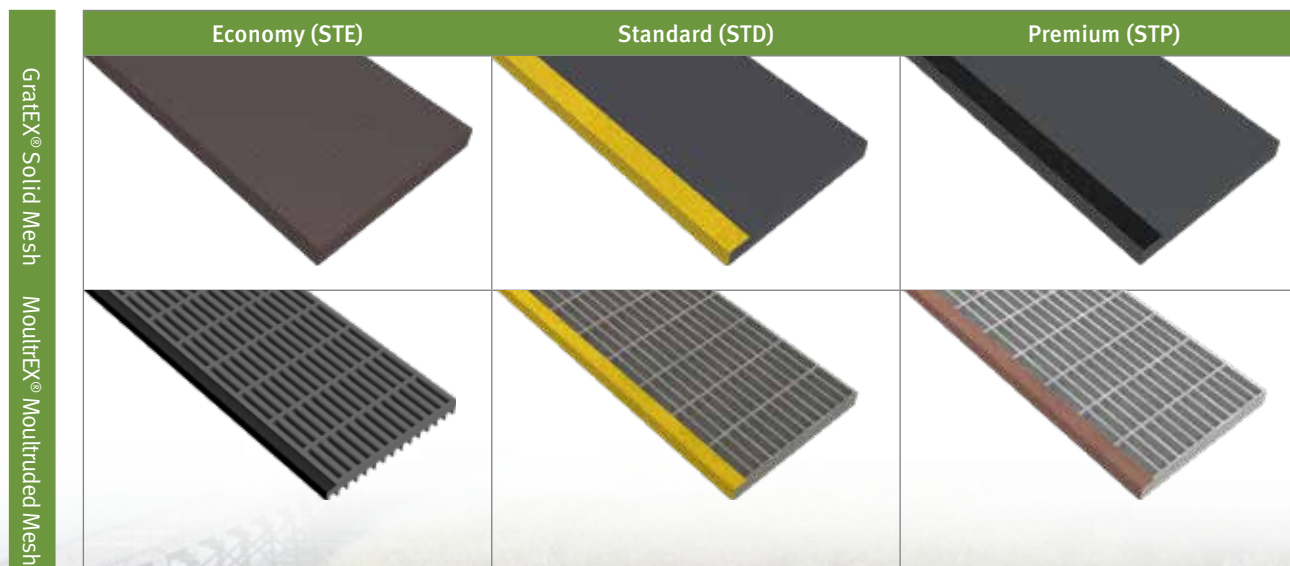
Treadwell recommends that leading edge nosings are specified when ordering GratEX® and MoultrEX® Stair Treads as the safety risks associated with elevated work areas or walkways is significantly increased without them.

NOTE: A bearing surface of at least 40mm is recommended at either side of GratEX® and MoultrEX® Stair Treads. Compliance with AS 1657-2013 requires a tread depth of > 225mm.

	Economy (STE)	Standard (STD)	Premium (STP)
GratEX® Square Mesh			
GratEX® Mini Mesh			
GratEX® Micro Mesh			



# STAIR TREADS





# GratEX® EZY TREAD STAIR TREADS

If the required stair tread span exceeds standard lengths, the expected concentrated load exceeds 4.5kN, and/or the stair treads deflection goes beyond the range accepted in Australian standards and compliance codes, Treadwell's ArchitEX™ FRP equal leg angle must be assembled as part of the structure. This will be installed along the length of the stair tread to provide additional support and address safety concerns.

## DURABLE, HARD-WEARING, ANTI SLIP SURFACE

Outperforms steel, concrete and other traditional materials, ensuring dependability in high traffic situations.

## HIGH STRENGTH FRP LEDGER ANGLE

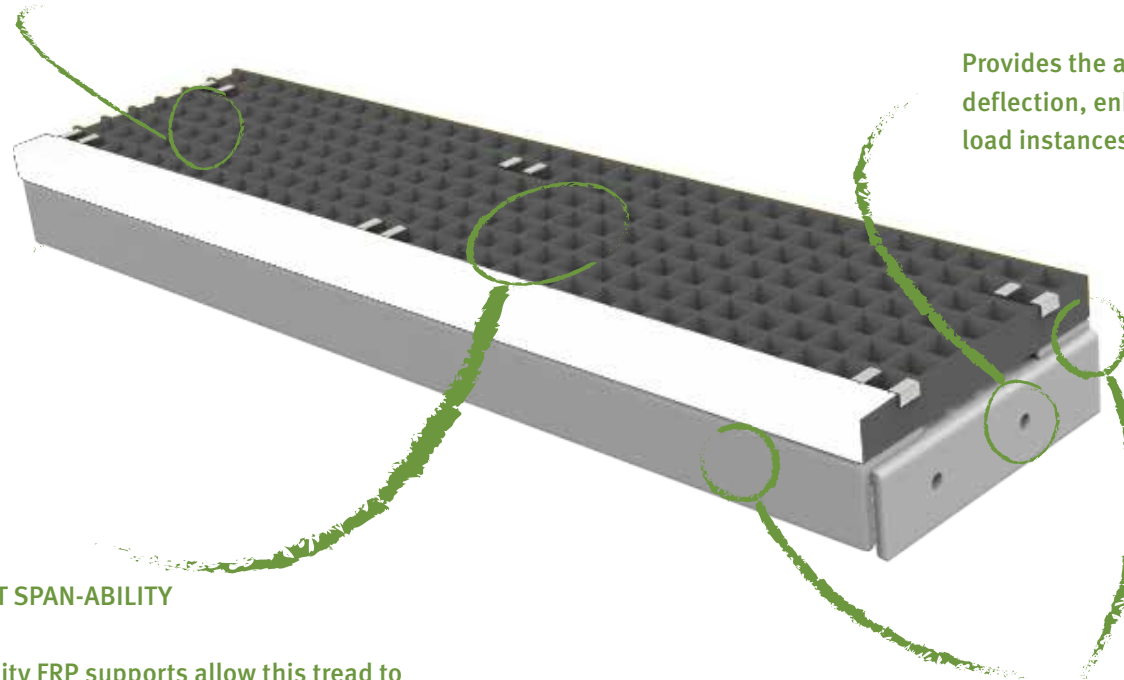
Provides the additional support to eliminate deflection, enhancing performance under high load instances.

## BRILLIANT SPAN-ABILITY

High quality FRP supports allow this tread to span up to 1800mm under normal walkway loadings.

## INCREDIBLE RIGIDITY

The sturdy FRP Equal Leg Angle support under the front and back of the tread provides exceptional rigidity.









# StormChief

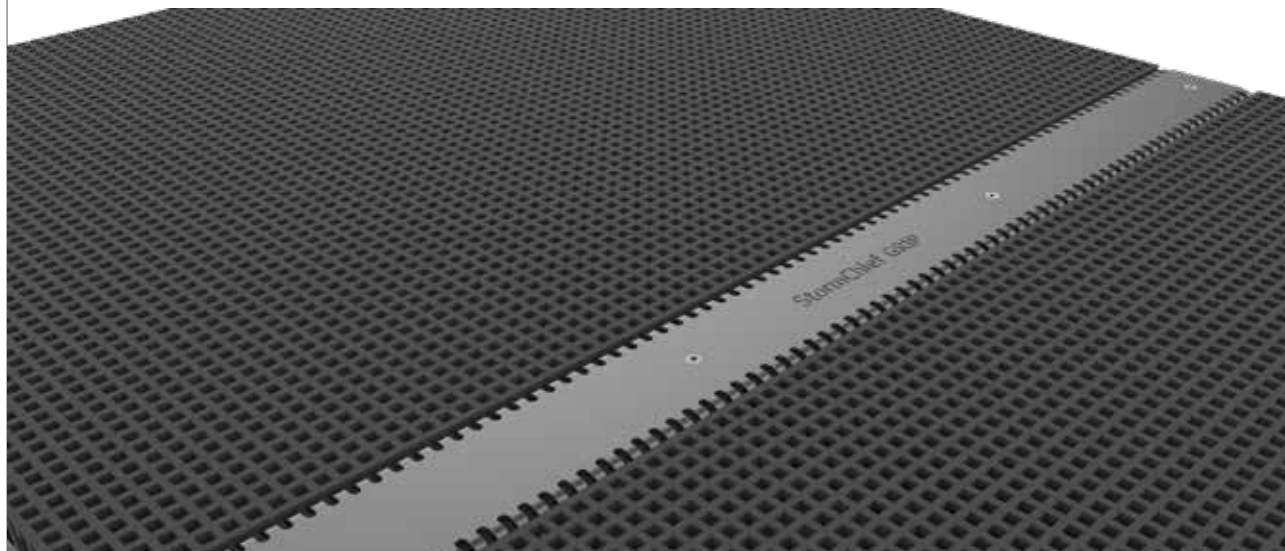
Treadwell developed the StormChief® fastening systems to provide a solution for fastening down grating products in environments that experience high wave action and subsequently require a fastening system that is designed to withstand wave zone loadings.

Wave action exerts extreme forces on grating, sometimes causing panels to be wrenched off substructures. This damage affects large industrial offshore structures such as oil and gas drilling platforms, dockside walkways or decks, and marine based recreational public infrastructure.

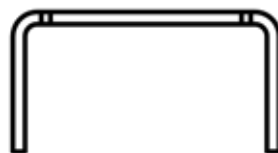
StormChief® Wave Zone Grating Fasteners save organisations large expenses in downtime due to access complications and restrictions and reinstallation costs. Additionally, the systems provide time saving installation methods such as the StormChief® Hybrid System which eliminates the necessity for access to the underside of the substructure.



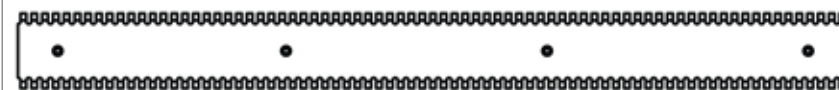
## StormChief GRIP®



Elevation View



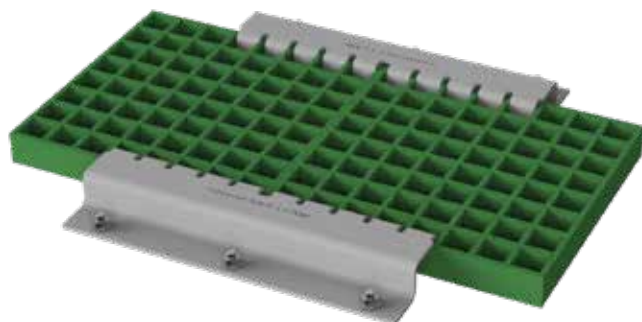
Plan View



The StormChief GRIP® is a rugged stainless steel clamping bracket that is designed to meet and exceed the requirements of extreme wave zone loadings. The StormChief GRIP® is a unique clamping system designed by Treadwell to seamlessly join two sheets of grating along one edge. This clip is easily recessed into the grating to ensure minimal trip hazard, making it ideal for public access areas that are subject to harsh coastal conditions.



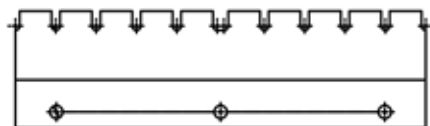
## StormChief CLAW®



Elevation View



Plan View



The StormChief CLAW® is a heavy duty 316 Stainless Steel grating fixing bracket that is designed to meet and exceed specifications for wave zone loadings. With integrated fingers that protrude into the grating aperture, the StormChief CLAW® provides secure fastening in even the harshest of coastal conditions. Used exclusively in conjunction with the StormChief® Hybrid System, it ensures simple, strong and rapid installation.

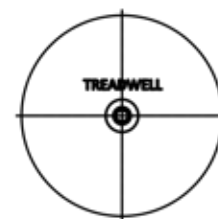
## StormChief DISC®



Elevation View



Plan View



The StormChief DISC® is an extremely robust and secure grating fastening system intended for use in areas that experience high wave zone loadings. The DISC is designed to be used when the width of a walkway or deck area exceeds 200mm or requires securing in situations where the application of the CLAW system is impractical. The DISC is recessed to ensure safe and secure pathway for all types of traffic accessing the area. This system is compatible with the H-Clip fastener and the StormChief® Hybrid System.

## Underside Mounting Options

### StormChief® H-Clip Combination



## Recess Tool

### StormChief® Recess Tool

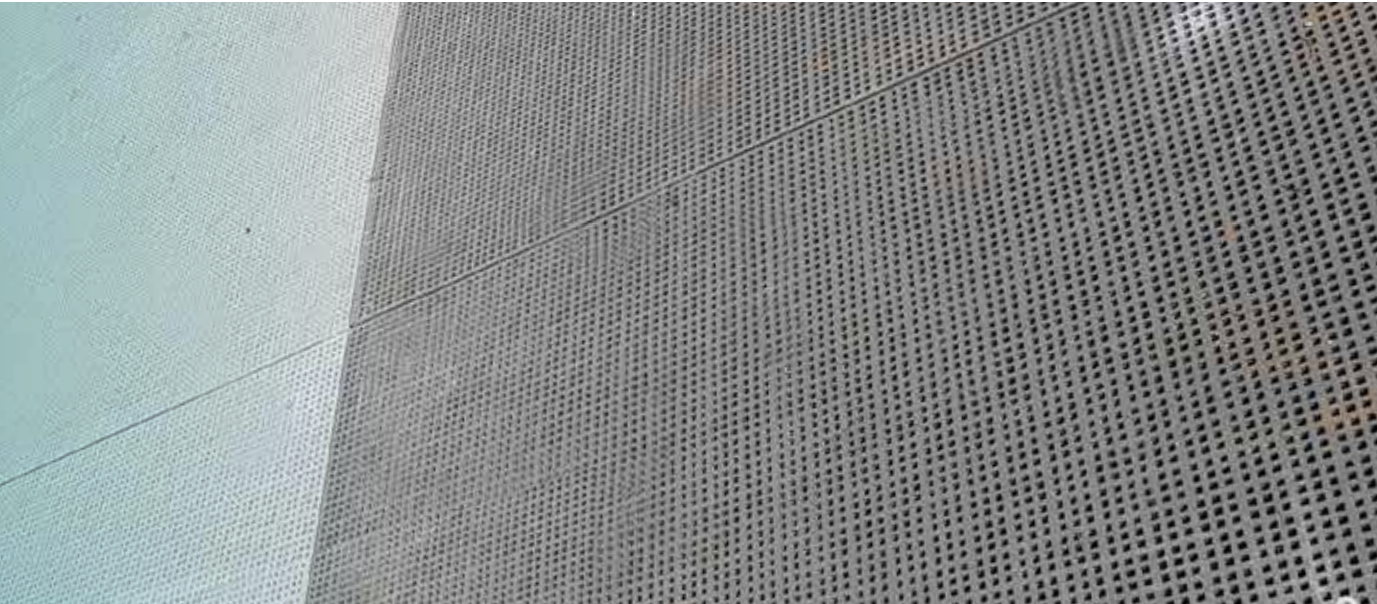




# GratEX® Premium Integrated Edge Banding

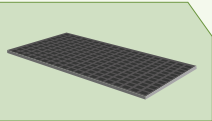
## What is EX-Series® Premium Integrated Edge Banding?

Treadwell sets the highest standards for edge banding without compromise. With the provision of high quality professional edge banding services, Treadwell offers specifiers a flexibility in design and finishes, allowing projects that consistent finish that impresses. Each project is accurately cut with computer aids before the required surface option is applied. This allows for an ultimate seamless finish that boasts quality and will endure.




## Showcase Projects

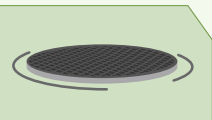
### Process Sequence




● Product is moulded initially.



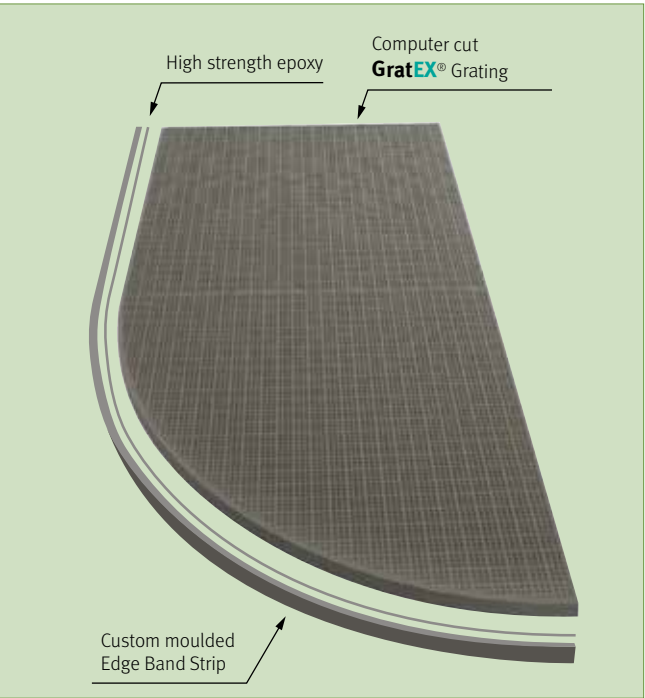
● Simultaneously CAD drawings are developed by Treadwell's in-house design team.



● Product is then computer cut in accordance with the CAD drawings.



● Following this, custom moulded Edge Banding is bonded to the computer cut grating using high strength epoxy.



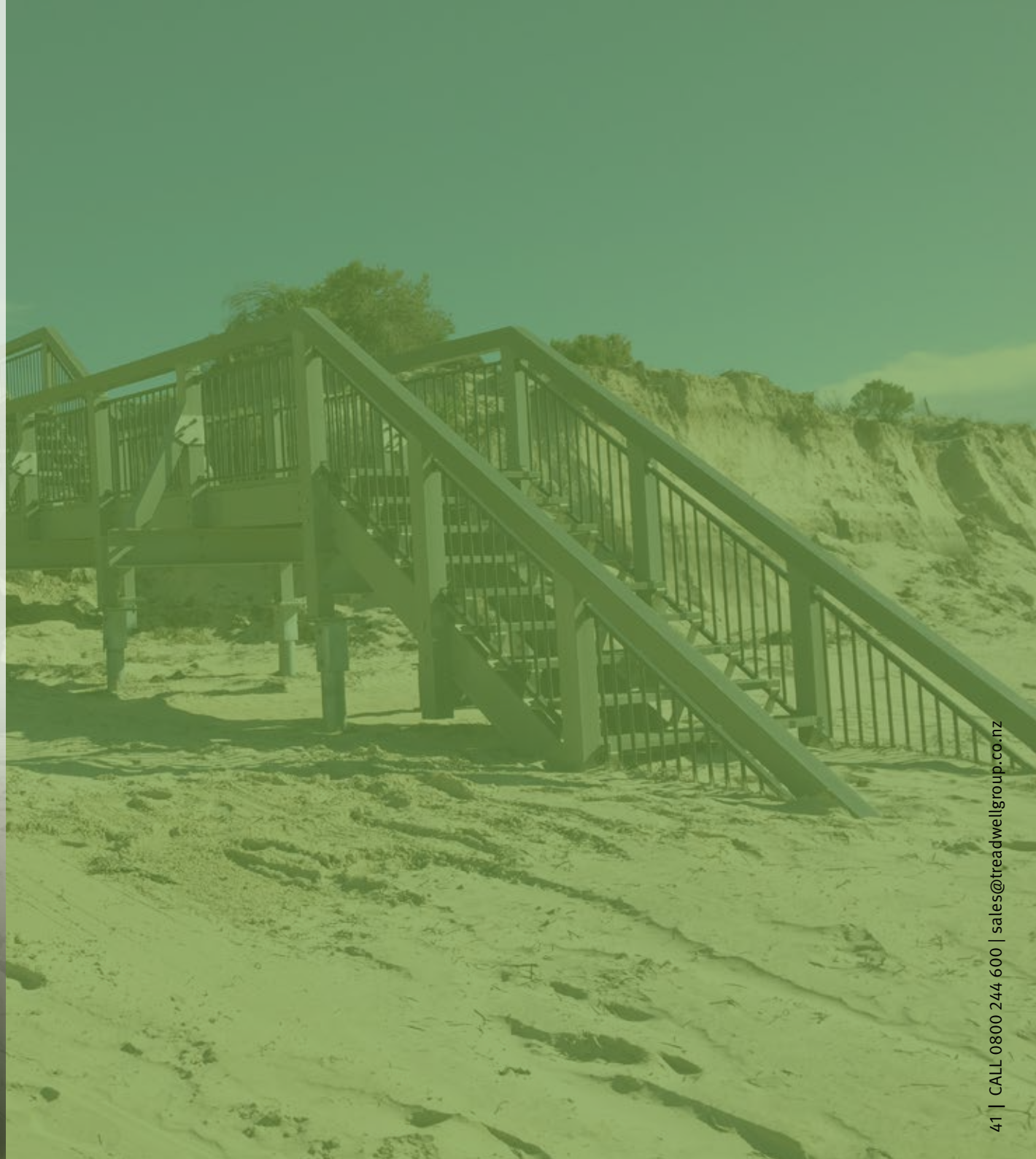


## Premium Surface Finish Options

Treadwell FRP products are constructed with integral UV stabilisers and colour pigmentation that ensure the colour remains consistent throughout the entire product.

These stabilisers limit UV degradation to just 0.1%, so while there may be some surface fading over time, the structural integrity of the product is not affected. This built-in UV stability makes Treadwell FRP products ideal for exposed applications and eliminates the need for additional surface treatments, saving on long-term maintenance costs.

**Integral Pigmentation is available in the standard colours of Charcoal, Dark Grey and Light Grey. RAL colours, with a minimum order quantity of 100m, can be ordered, subject to manufacturing limitations.**



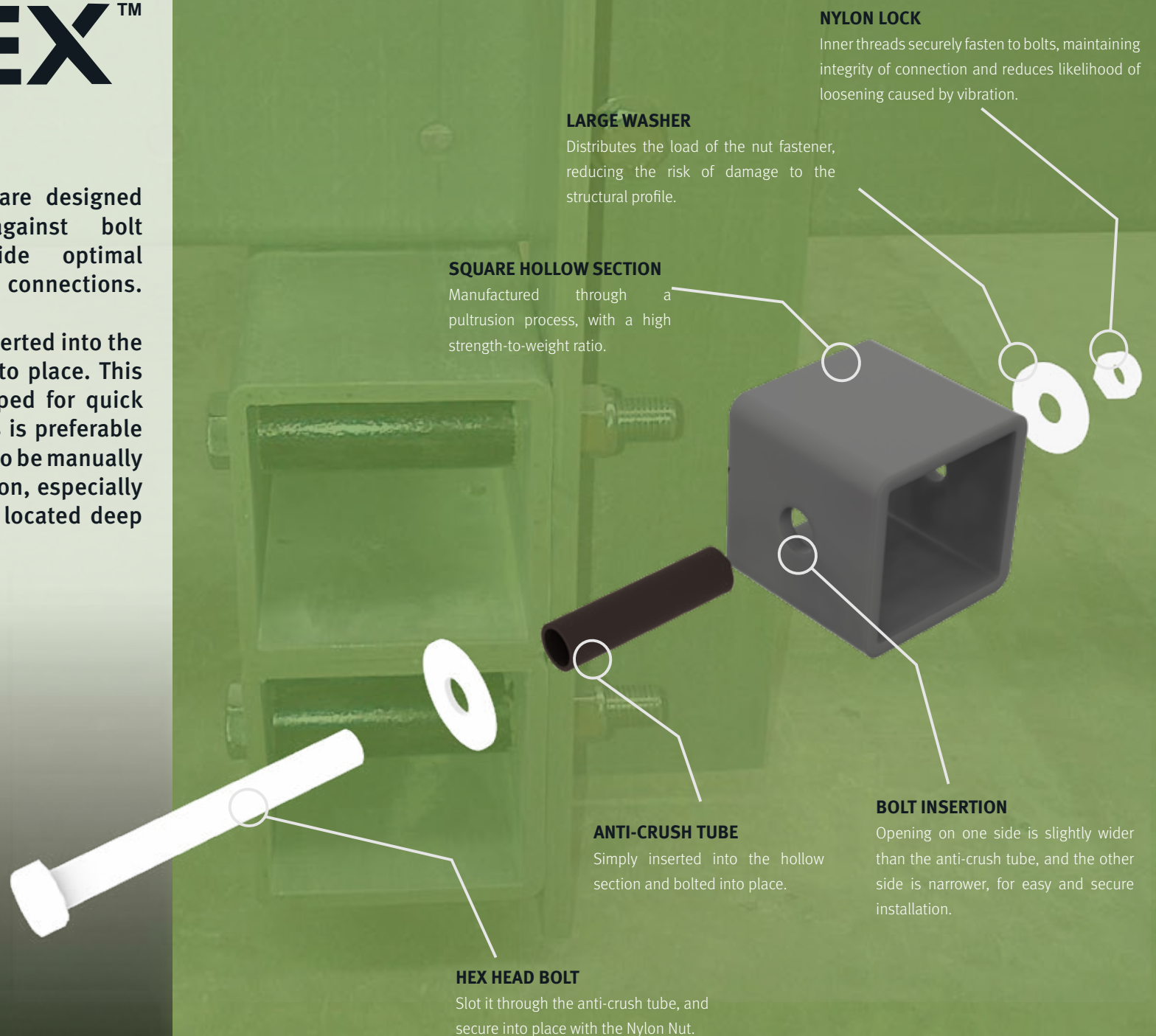


# ArchitEX™

## Anti-Crush Tube

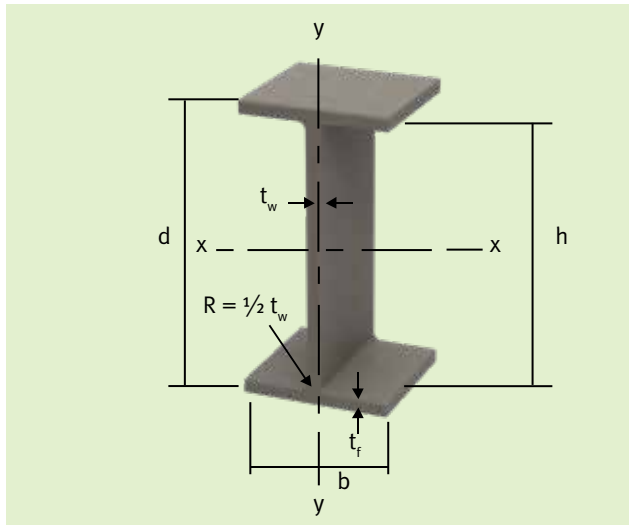
ArchitEX™ Anti-Crush Tubes are designed to provide resistance against bolt tightening and to provide optimal load bearing strength of connections.

Anti-crush tubes are easily inserted into the hollow section, and bolted into place. This localised system was developed for quick and efficient installation. This is preferable compared to inserts that have to be manually positioned into a hollow section, especially when reinforced sections are located deep within a hollow profile.





# I-SECTION



## Sectional Properties – I-Section

The section values shown on this page have been calculated from the nominal dimensions of the profile. All the shapes listed in the table are available but not all are stocked. For information on availability and price, contact Treadwell Group on 1800 246 800.

\*457.20 I Section - Web = 9.53mm Flange = 12.70mm

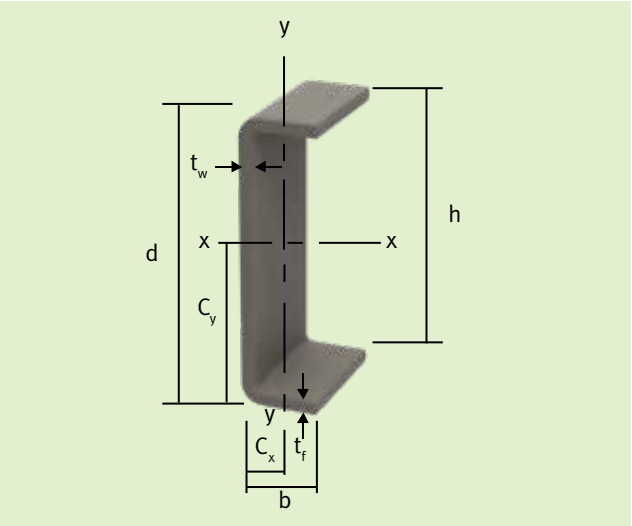
\*609.60 I Section - Web = 9.53mm Flange = 19.05mm

I-Section		Sectional Dimensions				
Part	Part Number	d mm	b mm	$t_w$ mm	$t_f$ mm	h mm
		Web	Flange			
76.2 x 38.1 x 6.4mm	F-P-IS(76/38/6.4)	76.2	38.1	6.4	6.4	63.50
88.9 x 38.1 x 4.8mm	F-P-IS(89/38/4.8)	88.9	38.1	4.8	4.8	79.38
101.6 x 50.8 x 6.4mm	F-P-IS(102/51/6.4)	101.6	50.8	6.4	6.4	88.90
139.7 x 63.5 x 6.4mm	F-P-IS(140/64/6.4)	139.7	63.5	6.4	6.4	127.00
152.4 x 76.2 x 6.4mm	F-P-IS(152/76/6.4)	152.4	76.2	6.4	6.4	139.70
152.4 x 76.2 x 9.5mm	F-P-IS(152/76/9.5)	152.4	76.2	9.5	9.5	133.35
203.2 x 101.6 x 9.5mm	F-P-IS(203/102/9.5)	203.2	101.6	9.5	9.5	184.15
203.2 x 101.6 x 12.7mm	F-P-IS(203/102/12.7)	203.2	101.6	12.7	12.7	177.80
254 x 127 x 9.5mm	F-P-IS(254/127/9.5)	254	127	9.5	9.5	234.95
254 x 127 x 12.7mm	F-P-IS(254/127/12.7)	254	127	12.7	12.7	228.60
304.8 x 152.4 x 12.7mm	F-P-IS(305/152/12.7)	304.8	152.4	12.7	12.7	279.40
457.2 x 9.5 x 114.3 x 12.7mm	F-P-IS(457/9.5/114/12.7)	457.2	114.3	9.5	12.7	431.80
609.6 x 9.5 x 190.5 x 19.1mm	F-P-IS(610/9.5/191/19.1)	609.6	190.5	9.5	19.1	571.50



# C-SECTION

C Section		Sectional Dimensions						
Part	Part Number	d mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	h mm	C <sub>x</sub> mm	C <sub>y</sub> mm
		Web	Flange					
50.8 x 14 x 3.2mm	F-P-CS(51/14/3.2)	50.8	14.2	3.2	3.2	44.75	3.761685	25.4
76.2 x 22.2 x 6.4mm	F-P-CS(76/22/6.4)	76.2	22.2	6.4	6.4	63.5	6.443382	38.1
76.2 x 25.4 x 6.4mm	F-P-CS(76/25/6.4)	76.2	25.4	6.4	6.4	63.5	7.408333	38.1
76.2 x 38.1 x 6.4mm	F-P-CS(76/38/6.4)	76.2	38.1	6.4	6.4	63.5	11.83409	38.1
88.9 x 3.2 x 30.2 x 4.8mm	F-P-CS(89/3.2/30/4.8)	88.9	30.2	3.2	4.8	79.375	8.775759	44.45
88.9 x 38.1 x 4.8mm	F-P-CS(89/38/4.8)	88.9	38.1	4.8	4.8	79.375	10.54554	44.45
101.6 x 28.6 x 6.4mm	F-P-CS(102/29/6.4)	101.6	28.6	6.4	6.4	88.9	7.52337	50.8
101.6 x 34.9 x 4.8mm	F-P-CS(102/35/4.8)	101.6	34.9	4.8	4.8	92.075	8.886887	50.8
139.7 x 38.1 x 6.4mm	F-P-CS(140/38/6.4)	139.7	38.1	6.4	6.4	127	9.128125	69.85
152.4 x 41.3 x 6.4mm	F-P-CS(152/41/6.4)	152.4	41.3	6.4	6.4	139.7	9.661071	76.2
152.4 x 42.9 x 9.5mm	F-P-CS(152/43/9.5)	152.4	42.9	9.5	9.5	133.35	11.28505	76.2
203.2 x 55.6 x 9.5mm	F-P-CS(203/56/9.5)	203.2	55.6	9.5	9.5	184.15	13.42547	101.6
254 x 69.9 x 12.7mm	F-P-CS(254/70/12.7)	254	69.9	12.7	12.7	228.6	17.18879	127
292.1 x 69.9 x 12.7mm	F-P-CS(292/70/12.7)	292.1	69.9	12.7	12.7	266.7	16.17266	146.05
304.8 x 76.2 x 12.7mm	F-P-CS(305/76/12.7)	304.8	76.2	12.7	12.7	279.4	17.55588	152.4
355.6 x 88.9 x 19.1mm	F-P-CS(356/89/19.1)	355.6	88.9	19.1	19.1	317.5	22.06218	177.8
457.2 x 60.32 x 9.5mm	F-P-CS(457/60/9.5)	457.2	60.3	9.5	9.5	438.15	10.24659	228.6

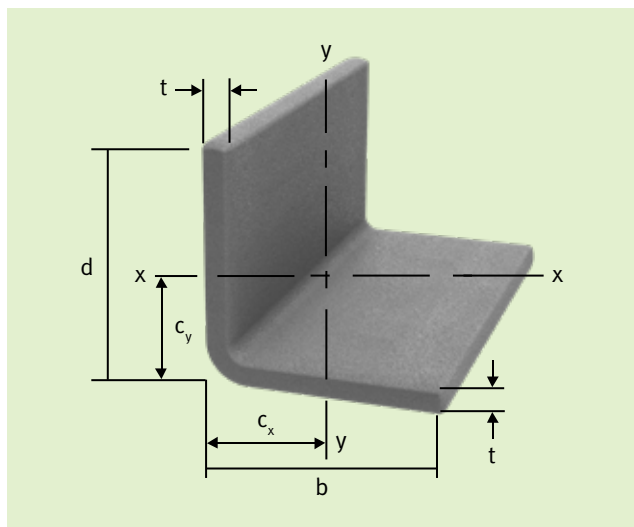


### Sectional Properties - C Section

The section values shown on this page have been calculated from the nominal dimensions of the profile. All the shapes listed in the table are available but not all are stocked. For information on availability and price, contact Treadwell Group on 1800 246 800.



# EQUAL LEG ANGLE



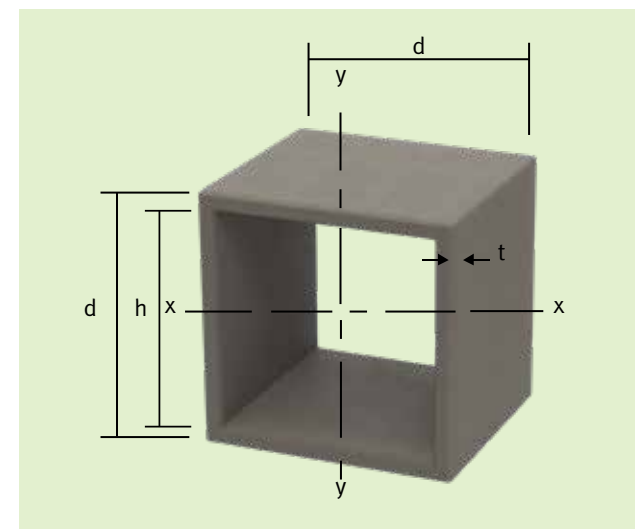
## Sectional Properties - Equal Leg Angle

The section values shown on this page have been calculated from the nominal dimensions of the profile. All the shapes listed in the table are available but not all are stocked. For information on availability and price, contact Treadwell Group on 1800 246 800.

Equal Leg Angle		Section Dimensions					
Part	Part Number	$d$ mm	$b$ mm	$t$ mm	$C_x/C_y$ mm	Area mm <sup>2</sup>	Weight Kg./m
25.4 X 3.2mm	F-P-ELA(25/3.2)	25.4	25.4	3.2	7.51	151.17	0.27
31.8 X 3.2mm	F-P-ELA(32/3.2)	31.8	31.8	3.2	9.11	191.48	0.35
38.1 X 4.8mm	F-P-ELA(38/4.8)	38.1	38.1	4.8	11.27	339.29	0.61
38.1 X 6.4mm	F-P-ELA(38/6.4)	38.1	38.1	6.4	11.83	443.44	0.80
50.8 X 6.4mm	F-P-ELA(51/6.4)	50.8	50.8	6.4	15.03	604.69	1.09
76.2 X 6.4mm	F-P-ELA(76/6.4)	76.2	76.2	6.4	21.40	927.19	1.67
76.2 X 9.5mm	F-P-ELA(76/9.5)	76.2	76.2	9.5	22.54	1360.55	2.45
76.2 X 12.7mm	F-P-ELA(76/12.7)	76.2	76.2	12.7	23.67	1773.75	3.20
101.6 X 6.4mm	F-P-ELA(102/6.4)	101.6	101.6	6.4	27.76	1249.69	2.25
101.6 X 9.5mm	F-P-ELA(102/9.5)	101.6	101.6	9.5	28.91	1844.30	3.32
101.6 X 12.7mm	F-P-ELA(102/12.7)	101.6	101.6	12.7	30.06	2418.75	4.36
152.4 X 9.5mm	F-P-ELA(152/9.5)	152.4	152.4	9.5	41.63	2811.80	5.07

# SQUARE HOLLOW SECTION

Square Hollow Section	Section Dimensions			
Part	Part Number	d mm	t mm	h mm
25.4 X 3.2mm	F-P-SHS(25/25/3.2)	25.4	3.2	19.05
25.4 X 6.4mm	F-P-SHS(25/25/6.4)	25.4	6.4	12.70
31.8 X 3.2mm	F-P-SHS(32/32/3.2)	31.8	3.2	25.40
31.8 X 6.4mm	F-P-SHS(32/32/6.4)	31.8	6.4	19.05
38.1 X 3.2mm	F-P-SHS(38/38/3.2)	38.1	3.2	31.75
38.1 X 6.4mm	F-P-SHS(38/38/6.4)	38.1	6.4	25.40
44.5 X 3.2mm	F-P-SHS(45/45/3.2)	44.5	3.2	38.10
44.5 X 6.4mm	F-P-SHS(45/45/6.4)	44.5	6.4	31.75
50.8 X 3.2mm	F-P-SHS(51/51/3.2)	50.8	3.2	44.45
50.8 X 6.4mm	F-P-SHS(51/51/6.4)	50.8	6.4	38.10
50.8 X 9.5mm	F-P-SHS(51/51/9.5)	50.8	9.5	31.75
57.2 X 3.2mm	F-P-SHS(57/57/3.2)	57.2	3.2	50.80
76.2 X 3.2mm	F-P-SHS(76/76/3.2)	76.2	3.2	69.85
76.2 X 6.4mm	F-P-SHS(76/76/6.4)	76.2	6.4	63.50
88.9 X 6.4mm	F-P-SHS(89/89/6.4)	88.9	6.4	76.20
101.6 X 6.4mm	F-P-SHS(102/102/6.4)	101.6	6.4	89.90
101.6 X 8mm	F-P-SHS(102/102/8)	101.6	8	85.6
101.6 X 9.5mm	F-P-SHS(102/102/9.5)	101.6	9.5	82.55
127 X 8mm	F-P-SHS(127/127/8)	127	8	111
152.4 X 9.5mm	F-P-SHS(152/152/9.5)	152.4	9.5	133.35

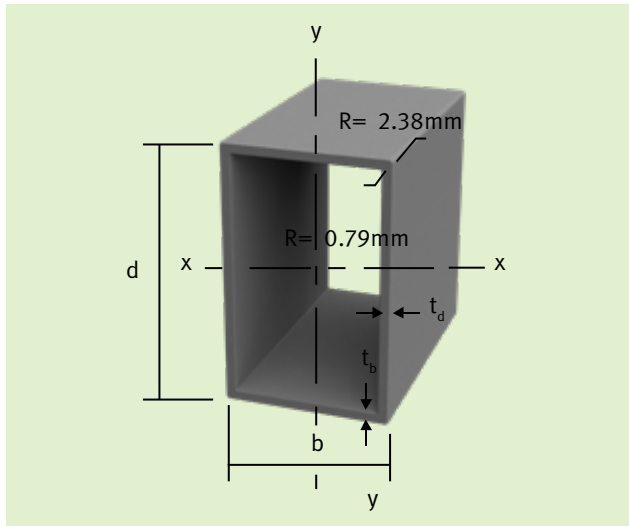


## Sectional Properties - Square Hollow Section

The section values shown on this page have been calculated from the nominal dimensions of the profile. All the shapes listed in the table are available but not all are stocked. For information on availability and price, contact Treadwell Group on 1800 246 800.



# RECTANGULAR HOLLOW SECTION



## Sectional Properties – Rectangular Hollow Section

The section values shown on this page have been calculated from the nominal dimensions of the profile. All the shapes listed in the table are available but not all are stocked. For information on availability and price, contact Treadwell Group on 1800 246 800.

Rectangular Hollow Section		Section Dimensions			
Part	Part Number	d mm	b mm	t <sub>d</sub> mm	t <sub>b</sub> mm
38.1 X 19.1 X 3.2mm	F-P-RHS(38/19/3.2)	38.1	19.1	3.2	3.2
38.1 X 25.4 X 3.2mm	F-P-RHS(38/25/3.2)	38.1	25.4	3.2	3.2
50.8 X 25.4 X 3.2mm	F-P-RHS(51/25/3.2)	50.8	25.4	3.2	3.2
101.6 X 25.4 X 3.2mm	F-P-RHS(102/25/3.2)	101.6	25.4	3.2	3.2
101.6 X 3.2 X 50.8 X 6.4mm	F-P-RHS(102/3.2/51/6.4)	101.6	50.8	3.2	6.4
111.1 X 3.2 X 34.9 X 4.8mm	F-P-RHS(111/3.2/35/4.8)	111.13	34.93	3.2	4.8
139.7 X 88.9 X 6.4mm	F-P-RHS(140/90/6.4)	139.70	88.90	6.4	6.4
152.4 X 101.6 X 6.4mm	F-P-RHS(152/102/6.4)	152.40	101.60	6.4	6.4

BOARDWALKS

STAIRCASES

BALUSTRADES

SHELTERS

ACCESS RAMPS

WATERCRAFT ACCESS

JETTIES

## 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)**

37 MACAULAY STREET

WILLIAMSTOWN NORTH, VIC 3016

### NEW SOUTH WALES

► **SYDNEY (SERVICED OFFICE)**

SUITE 9, 35-36 EAST ESPLANADE

MANLY, NSW 2095

► **WAGGA WAGGA (REGIONAL OFFICE)**

13 CHESHIRE STREET

WAGGA WAGGA, NSW 2650

► **QUEENSLAND**

**BRISBANE (SERVICED OFFICE)**

OFFICE 32, 59 ALBANY CREEK ROAD

ASPLEY, QLD 4034

► **WESTERN AUSTRALIA**

**PERTH (BRANCH OFFICE & WAREHOUSE)**

UNIT 2, 4 ELMSFIELD ROAD

MIDVALE, WA 6056

► **TASMANIA**

**BURNIE (DISTRIBUTION CENTRE)**

8 RIVER ROAD

WIVENHOE, TAS 7320

## New Zealand

### NORTH ISLAND

► **PALMERSTON NORTH (BRANCH OFFICE & WAREHOUSE)**

36 RATANUI STREET,

AORANGI, FEILDING 4775

## Contact Us



1800 246 800 (AU) 0800 244 600 (NZ)



sales@naturetread.com



naturetread.com