

**TREADWELL™**

TOTAL “Fit & Forget” SOLUTIONS

At Treadwell™, we believe that the Fibreglass Reinforced Plastic (FRP) sector is poised for evolution into new and uncharted territories, where its many benefits will provide a return on investment previously unequalled by traditional alternatives and leave a smaller footprint on our environment.

In response to the need for FRP Fencing Systems, Treadwell™ is pleased to present our SecurEX® FRP Fencing Systems. As a progressive product, SecurEX® is fully customisable with height, panel width, and picket spacing as flexible options, plus this product also offers the provision for razor hoops and barb wire on the top. Along with our profiles made from FRP, all our fixings are manufactured from 304 Stainless Steel with tamper proof heads.



**Corrosion, Rust & Rot Proof**

Treadwell’s superior resin systems offer exceptional resistance to acids, salts and alkalis. At the same time, our FRP systems are rot and termite proof.



**Lightweight, High Strength & Easy to Install**

Treadwell’s FRP products and systems are lightweight and very manageable. FRP has specific gravity one quarter that of steel and two thirds of aluminium.



**No Protective Coating Required**

Treadwell’s unique surface finishing system ensures UV stability in exposed applications, directly eliminating the need for costly surface treatment.



**No Hot Work or Welding Required**

FRP is very simply modified or fabricated on site with easy to use hand tools. These can be done without the hassle of first needing to obtain hot work permits.



**Long Term Cost Benefits over Time**

Long service life, minimal maintenance costs and low installation costs all combine to provide a very competitive solution over time.



**Non-Conductive & Transparent to RF Transmission**

FRP is transparent to radio frequency transmission and is non-conductive in nature. This makes the material ideal for applications that need to avoid electrical currents and radio frequency.



**Virtually Maintenance Free**

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

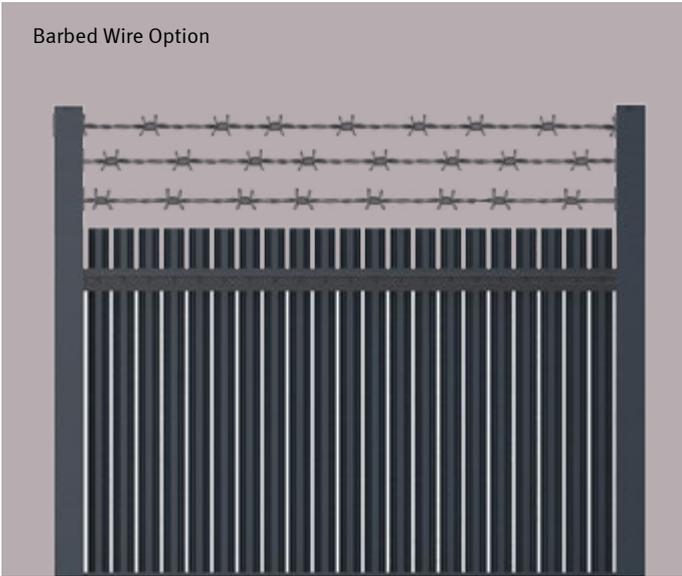


**Competitive vs. Traditional Alternatives**

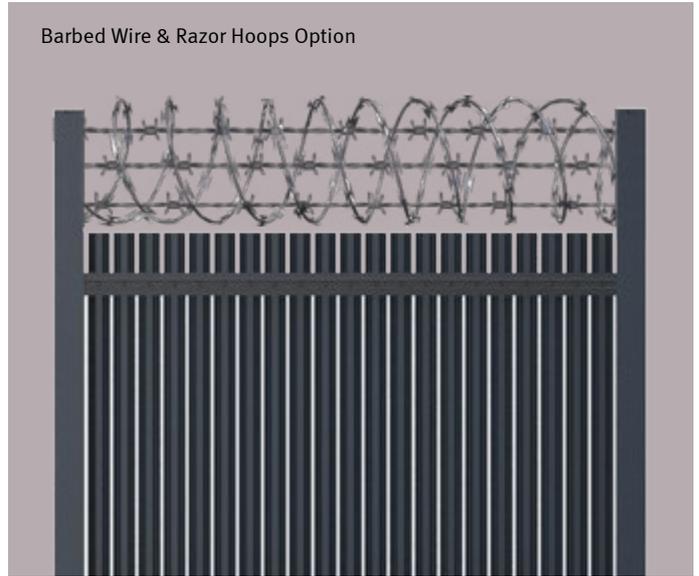
FRP is manufactured from a more economically sound raw material base than metallic alternatives, and is far more structurally sound when compared to timber and plastic materials.

SecurEX® - Fence System Overview

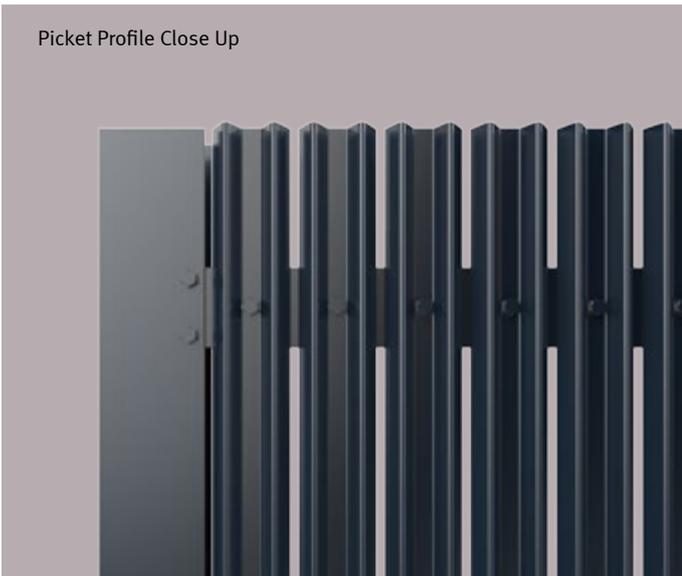
Barbed Wire Option



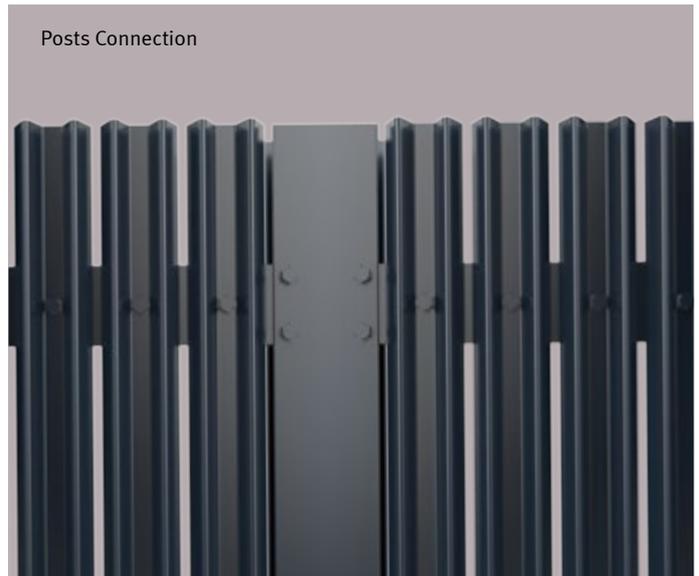
Barbed Wire & Razor Hoops Option



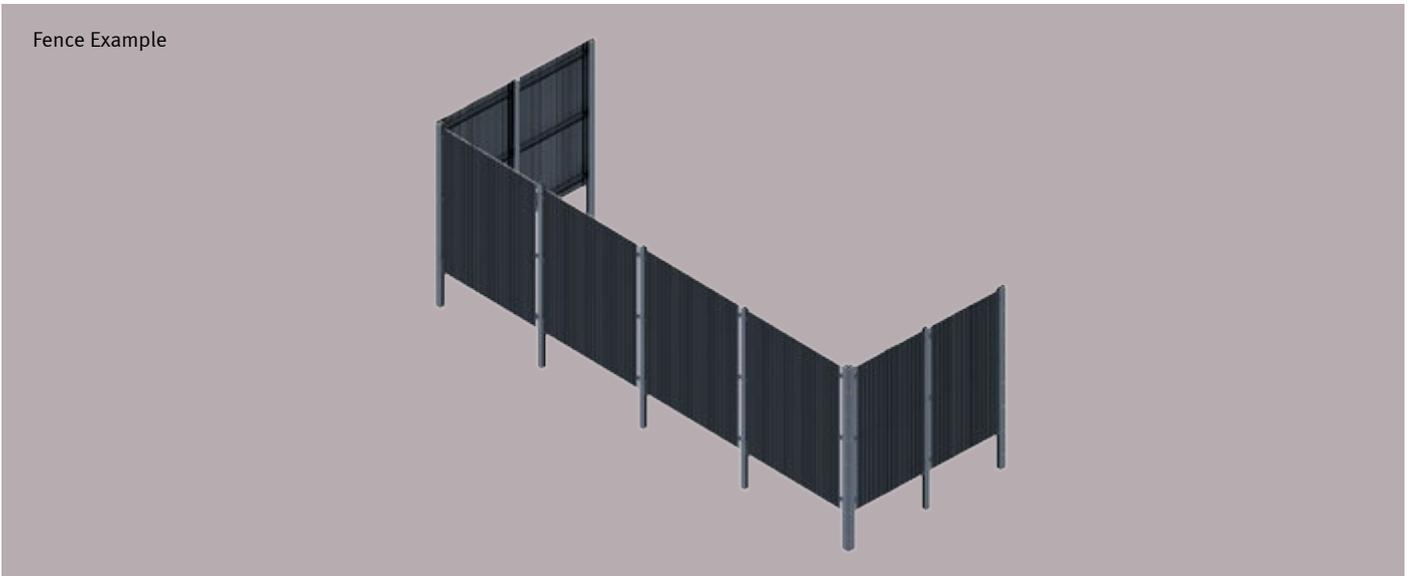
Picket Profile Close Up



Posts Connection



Fence Example



**SecurEX® - Fence System Overview**

SecurEX® is an excellent investment suited to a large range of sectors, spanning from commercial to residential projects, the light weight, ease of installation and lack of maintenance characteristics are highly viewed.

The communications, energy and transport sectors make particular use of it due to its requirement for materials with substantial electrical insulation properties. The non-conductive nature of FRP makes it ideal for applications where power, magnetic fields and RF transmission are also sensitive considerations.

Further, applications for SecurEX® FRP Fencing Systems, like all our gratings, can be applied in areas where corrosion exists (e.g. the naval and offshore sectors) or to reduce fire risks (low smoke emissions).

ELECTRICAL PROPERTIES	ASTM	UNITS	VALUE	UNITS	VALUE
Arc Resistance, LW	D - 495	seconds	120	<i>seconds</i>	<i>120</i>
Dielectric Strength, LW	D - 149	kv. / in.	35	<i>kv. / in.</i>	<i>1.37</i>
Dielectric Strength, PF	D - 149	volts / mil.	200	<i>volts / mil.</i>	<i>200</i>
Dielectric Constant, PF	D - 150	@60hz	5	<i>@60hz</i>	<i>5</i>

