

We are pleased to be able to bring to you the most extensive range of FRP Handrail Products released yet - welcome to the RailEX® System.

Treadwell's RailEX <sup>®</sup> Ergonomic Tubular Handrail System is an industrial rated composite handrail product which combines strength, durability and versatility, meaning the system is ideal for use in numerous applications in many industries.

With the flexibility to supply handrail as either components modulised panels to suit your exact requirements, Treadwell and the brand names EX-Series® and RailEX® are the names you can rely on.

# A BRIEF HISTORY

Treadwell Group is one of the most established names in the supply of Access Systems throughout Australia.

Our centrally located Adelaide fabrication facility, coupled with our second to none distribution network across Australia and our commitment to quality and testing, allows our technical staff to provide engineering and design assistance for any project.

With a broad history of installation in a wide range of challenging applications, including industrial process plants, mining applications, marine and coastal environments as well as public infrastructure, Treadwell has the experience to help you specify the right resin systems and products every time.

If you have any unique design problems, chances are we've encountered something similar before. Get in contact today - Freecall 1800 246 800.









# Treadwell Group Pty Ltd

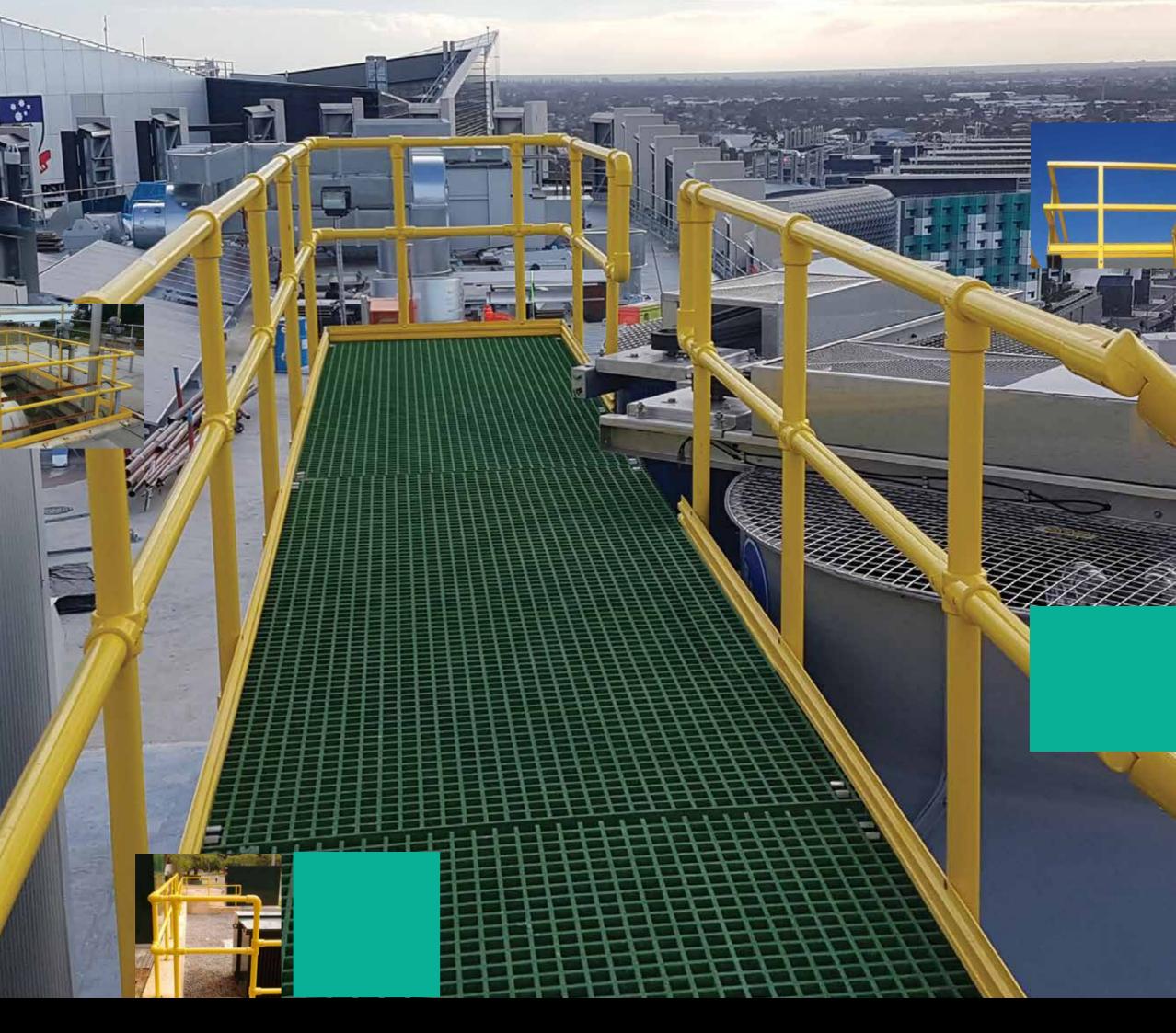
#### Australia

P 1800 246 800 F 1300 763 521 sales@treadwellgroup.com.au

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# Quality Policy



Quality is at the forefront of Treadwell's working practices. With over 15 years of manufacturing to the highest quality standards, Treadwell prides itself on its implementation of strict quality control measures, and strives to supply products that surpass customers' expectations. The company works on a policy of continuous improvement.



### **Environmental Policy**

Treadwell is conscious of the impact it has on the environment and its associated responsibilities. The company is committed to ensuring its operations satisfy both legal obligations and moral duties. Treadwell has been committed to sustainability for many years and is not just responding to current trends.

# FRP Handrail Selection Guide

# **Our Commitment to Testing**

Structural integrity is paramount with access safety products. With this in mind, Treadwell has subjected all EX-Series® systems to a stringent series of tests by approved international testing agencies. This stringent testing and test data allows engineers to review how the performance of this system exceeds the high standards demanded.



At the time of testing Treadwell's RailEX® systems were the first completely FRP handrail system to have been tested by a NATA accredited laboratory to Australian Standards AS1657 and conform.



# Benefits of FRP



# **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.



# Light Weight, High Strength & Easy Installation

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**

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



#### Non-Conductive & RF Transmission Transparent

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 Materials**

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.



### **Design Flexibility**

The unique capabilities of conforming partial functionality to the use or application, ease to manufacture and to personalise shapes and aesthetics are just some of the key benefits that draw designers, engineers and architects to composite materials.



### **Environmentally Sound**

Related to the lightweight, low need for maintenance and long design life of FRP, the reduced lifecycle cost and environmental footprint are highly sought after characteristics in the modern world. Continual resin formulation fine tuning and development can further raise this environmental profile of composites.

# Materials of Construction

RailEX® FRP handrail is constructed from fibreglass rovings combined with a blend of thermosetting resin systems. All of the resins used in the production of EX-Series® products contain UV inhibitors and fire retardant additives.



# What is RailEX® ROUND Tubular Handrail?

Treadwell's RailEX® ROUND Tubular Handrail is an industrial rated composite handrail system which combines strength, durability and versatility meaning the system is ideal for use in numerous applications in a vast range of industries. Treadwell can supply RailEX® as either components or as fabricated handrail panels ready for installation.

### **Smart Transposable Designs**

Unlike traditionally welded alternatives, Treadwell FRP handrail system disposes the need for drafting, engineering and onsite fabrication while minimising installation costs. Treadwell's safety handrail systems can be adapted or extended with additional components, or cut to size on-site. Pre-engineered kits are supplied as a series of components with simple assembly instructions. With our clients in mind, Treadwell aims to minimise the cost of maintenance and repairs, and damaged components with easily with spare parts, available ex-stock.

#### Simple Zero Weld Assembly

As an added benefit, fibreglass handrail kits are assembled using a simple, zero weld construction method; reducing the chances for corrosion activation. Treadwell's RailEX® designs and fittings effectively eliminate the need for specialist trades, hot works permits, fire spotters and welding protection to finished surfaces. Our selection of FRP increases safety conditions for installers by eliminating toxic fumes, welding in wet areas and fire risk hazards.

Developed by Treadwell with the input of designers, and of course plan operators, this system offers you all benefits of traditional guardrail systems without the inherent problems - corrosion, welding and hot works permits for onsite modifications. Furthermore, this unique system is a first to be tested and conform with Australian Standards. AS 1657 RailEX® is the 'fit and forget' handrail system.







### RailEX® Features and Benefits vs. Traditional Alternatives

	RailEX®	Stainless Steel	Galvanised Steel	Aluminium	Timber
Chemical Resistance	••••	• • • •	•	• • •	• • • •
Strength	• • • •	• • • •	• • • • •	• • • •	• •
Lightweight	• • • • •	•	•	• • • •	• •
Electrical Resistance	• • • •	•	•	• • • •	• • • •

# **EX-Series® Standard Colours**

Treadwell's Standard Colours are Safety Yellow and Light Grey.

Contact Customer Service on 1800 246 800 or email us at sales@ treadwellgroup.com.au for custom requirements – custom colours are available on request.



### **Did You Know?**

Treadwell has the resource and expertise to fabricate handrail to your exact requirements and furthermore, we specialize in drafting to save you the bother. See page 18 for more details.





# RailEX® ROUND System Overview

### FAQ's

# Dubious about the actual strength of FRP handrail?

**Q:** Are RailEX® handrails are the strongest type of non-metallic handrail available?

**A:** They are, based on equal product weights comparisons.- For higher strength and stiffness, RailEX® handrail panels incorporate glass reinforcing which no other plastic handrail features; for example, polypropylene handrails, which can be simply welded and are light-weight, will be affected by a much smaller temperature range than FRP and will not retain their structural integrity, especially on hot days outdoors. - Likewise, for additional strength, RailEX® panels typically contain 15-20% more reinforcing content (glass) in comparison to alternative FRP handrail systems on the market.

# You're perhaps au fait with metal, but not FRP?

 $\mathbf{Q}\text{:}$  How simply can I modify RailEX® handrail on site or even once it is installed?

**A:** Very simply. All that will be required is the correct tools to undertake the job, which consist mainly of simple carpenters' tools. All fittings are mechanically fastened and can be simply released by undoing fixings.

# FRP handrail - why, when the frame must be metal?

**Q:** Is there a lot of point utilising RailEX® handrails, even though we are working in a corrosive environment, if frame work will be being built out of mild steel due to stainless steel not being viable?

**A:** Certainly there is. For industrial applications, Treadwell offers a family of FRP building products including structural shapes, grating, cladding and roofing, louvres, ridge vents & many other non-corrosive solutions, and our expertise includes in-house design and fabrication services.

### How can you guarantee RailEX® will last outdoors?

Q: Does RailEX® offer better UV protection that alternative FRP materials?

**A:** Yes, RailEX® has additional means of UV protection. - RailEX®, which is only ever produced with premium EX-Series® Resin Systems, incorporates an optimum amount of UV inhibitors and stabilisers within the material. - For longevity of surface serviceability, RailEX® surface veils are pre-finished with a factory applied two pack surface coating.

# One of the most common questions asked is about the cost of Treadwell products.

Q: How does RailEX® compare to stainless steel in price?

**A:** Treadwell's FRP materials are normally less than the cost of stainless steel.

Q: How does RailEX® compare to carbon steel in price?

**A:** Treadwell's FRP materials are generally more expensive than carbon steel when comparing material costs. However, when factoring in installation, handling, transportation and other associated expenses, the total installed cost of FRP is therefore more competitive.

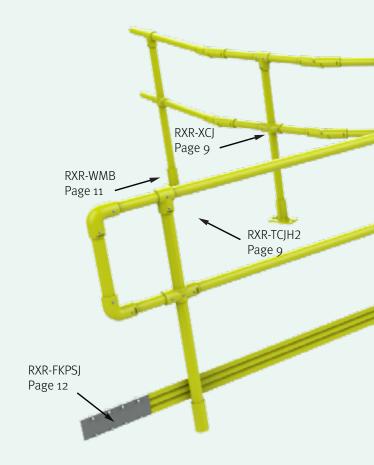
**Q:** How does RailEX® compare to aluminium in price?

A: Treadwell's FRP materials are usually priced competitively with aluminium and the total installed cost generally makes FRP a more price competitive choice than aluminium.

Q: How does RailEX® compare to wood in price?

**A:** Treadwell's FRP materials cannot compete with wood on price alone. Customers considering using FRP in place of wood should evaluate the strength, not the resistance and over all performance requirements for the application and choose the best material accordingly.

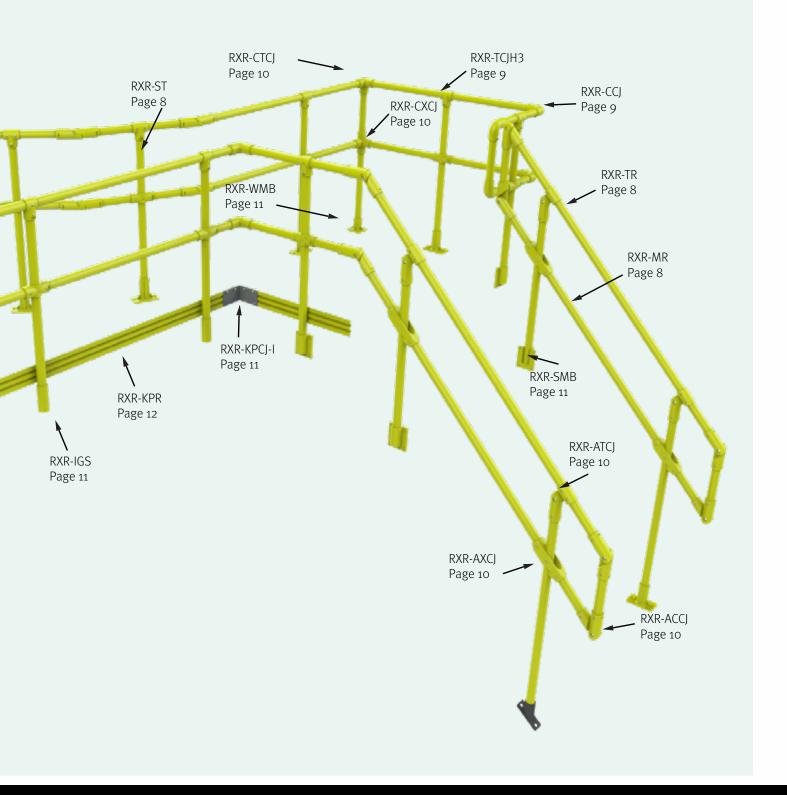




This illustration is for parts visualization only and does not represent an actual layout.

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# **ND Overview**

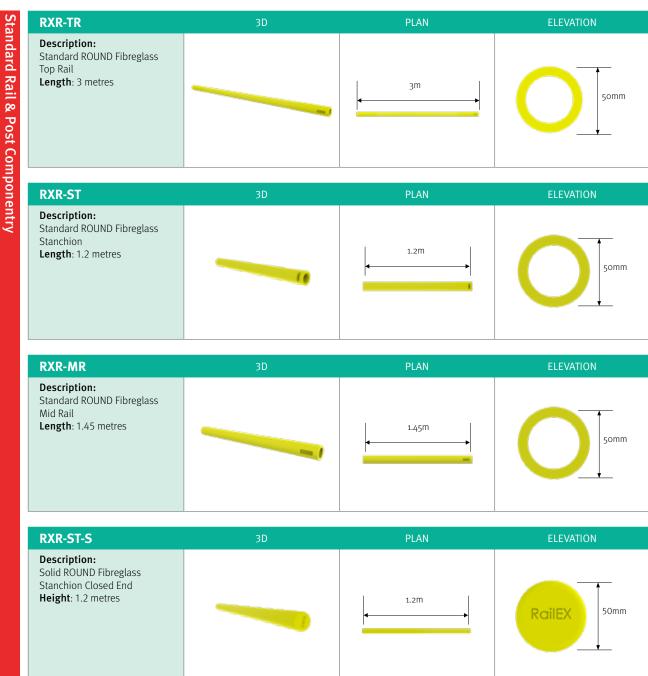




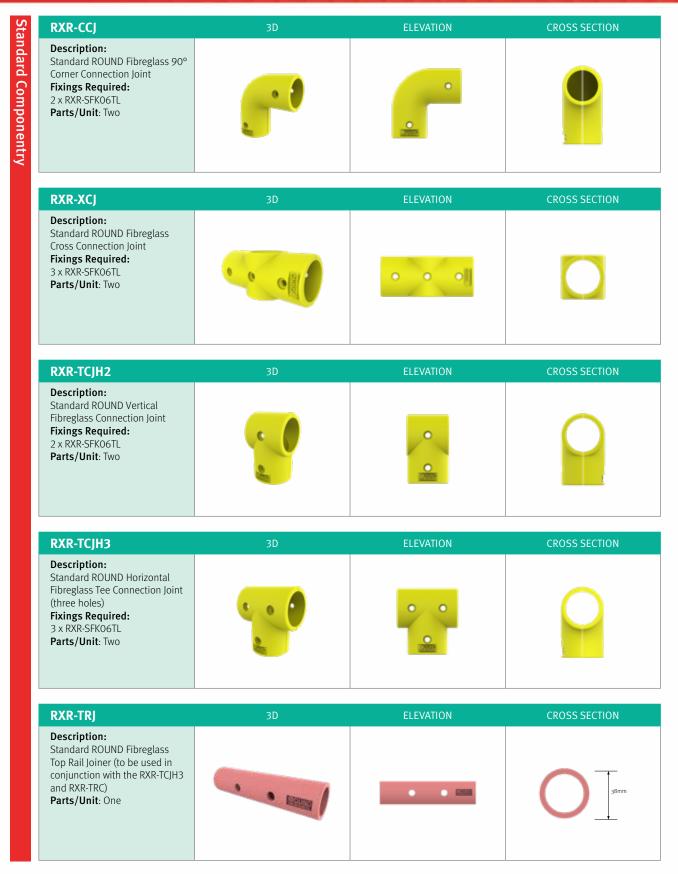
# RailEX® ROUND Componentry

Developed to compliment Treadwell's range of corrosion resistant structural solutions, RailEX $^{\odot}$  offers you the ideal solution for the harshest of destructive, chemical, laden environments, both inside and out.

All of the RailEX® components are completely constructed from fibreglass reinforced plastic (FRP) and are coated with a two pack UV resistant coating to provide the peace of mind that premature breakdown of the product will not result from exposure to elements.

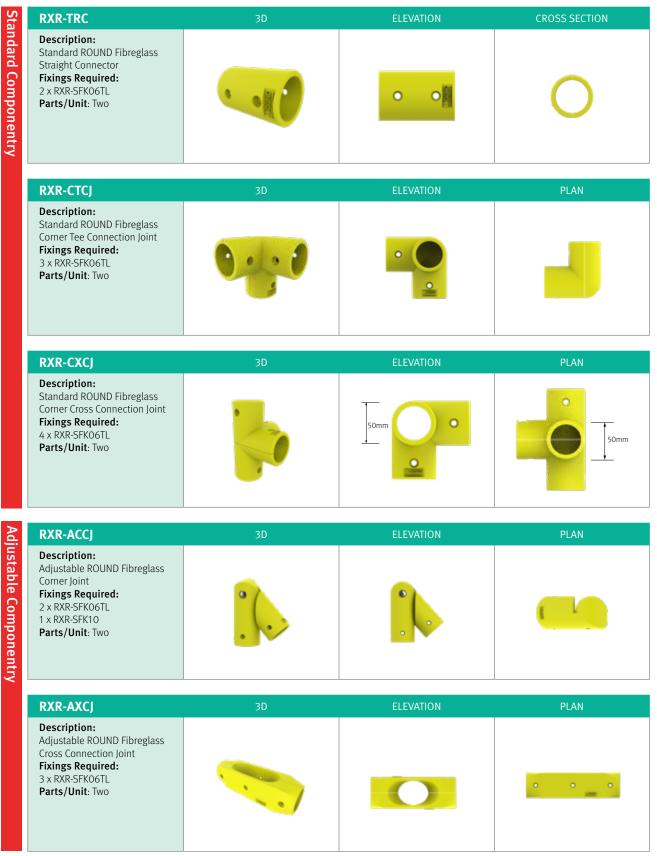


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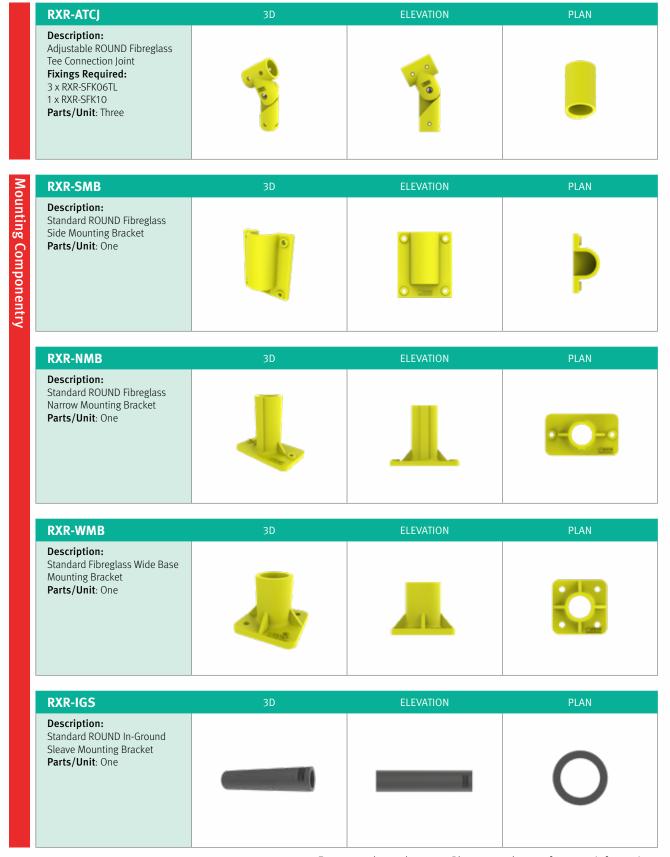


Fasteners are available separately. Please refer to page 13 & 14 for more information.





Fasteners are available separately. Please refer to page 13 & 14 for more information.



Fasteners depend on use. Please speak to us for more information.



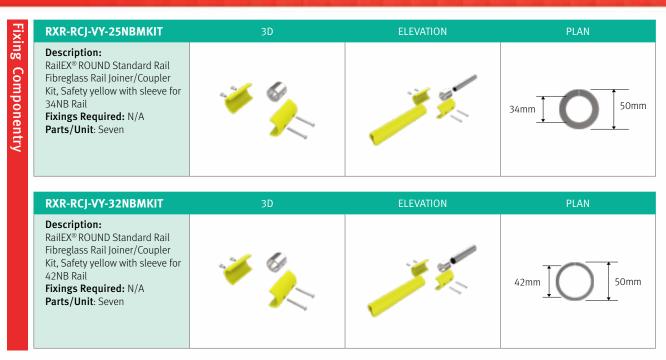


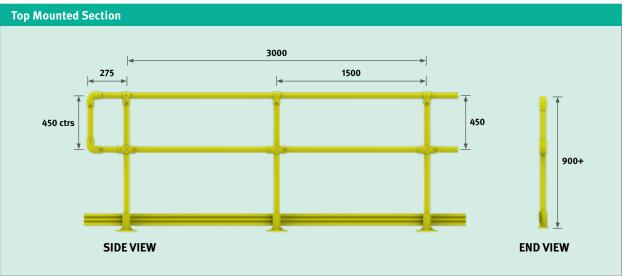
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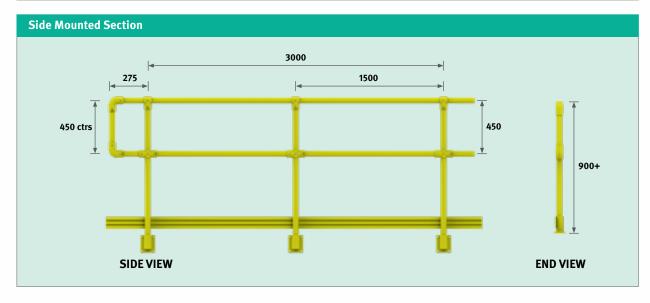
Kick Plate Componenti **RXR-KPH** PLAN Description: Standard Fibreglass Kick Plate High. Affix to Stanchion with RXR-KSF or RXR-RF Fixings Required: RXR-KSF 200mm Parts/Unit: One **RXR-SFK10 PLAN** Description: Standard Kick Plate Straight Componentry Joiner with Trilobular Head (stock item) Fixings Required: N/AParts/Unit:Three **RXR-SFK06TL PLAN Description:** Standard Kick Plate Straight Joiner with Trilobular Head (stock item) Fixings Required: N/A Parts/Unit:Three **RXR-SFK06ST PLAN** Description: Standard Kick Plate Straight Joiner with Socket Head (on request) Fixings Required: N/A Parts/Unit:Three **RXR-RF PLAN Description:** Standard Stainless Steel Rivet Fastener Fixings Required: N/A Parts/Unit: One

Fixing	RXR-KSF	3D	ELEVATION	PLAN
ng Componentry	Description: Standard Stainless Kick Plate to Stanchion Fastener Kit Fixings Required: N/A Parts/Unit: Four			
Fix	RXR-SFK06-STD	3D	ELEVATION	PLAN
Fixing Componentry	Description: Standard Stainless Steel Driver Kit M6 type with Hex Socket Head Fixings Required: N/A Parts/Unit: One			<b>€≥№</b> —-
	RXR-SFK06-STID	3D	ELEVATION	PLAN
	Description: Standard Stainless Steel Socket Head Impact Drill Head Fixings Required: N/A Parts/Unit: One			
	RXR-SFK06-TLD	3D	ELEVATION	PLAN
	Description: Standard Stainless Steel Driver Kit M6 Type with Trilobular Head Fixings Required: N/A Parts/Unit: One	50	<b>ELEVATION</b>	T LAIN
	RXR-SFK06-TLID	3D	ELEVATION	PLAN
	Description: Standard Stainless Steel Trilobular Head Impact Drill Head Fixings Required: N/A Parts/Unit: One			

# RailEX® ROUND Typical Sections

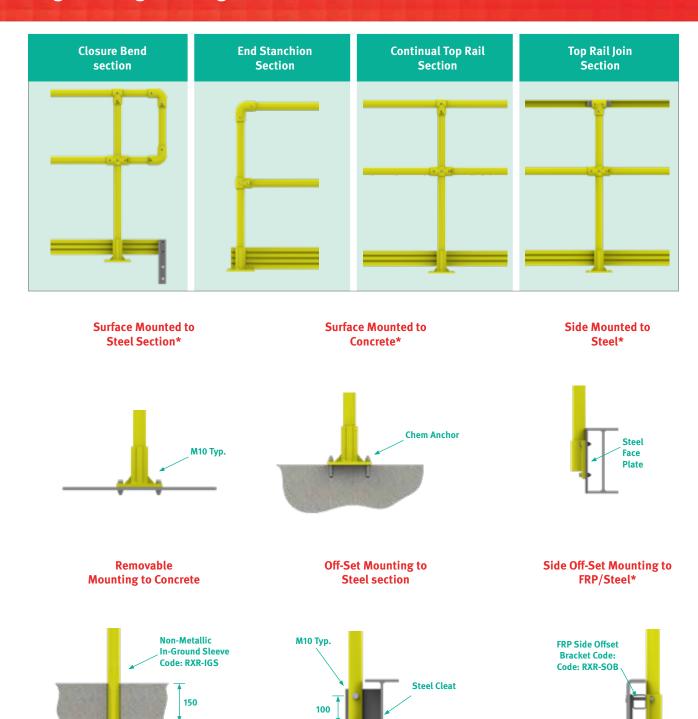








# **Engineering & Design Assistance**

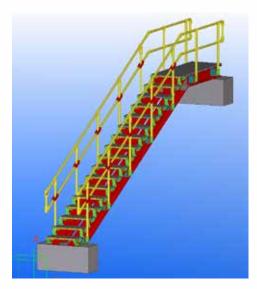


<sup>\*</sup>Note: Top and side mount bases are friction fit. Adhesive is optional.

# RailEX® Self Closing Gates



Because Treadwell is ever conscious that designers are a key stakeholder in our business, we have made the entire RailEX® componentry range available in several electronic file configurations. Contact us on 1800 246 800 to request your copy immediately.



# **Engineering Design & Assistance**

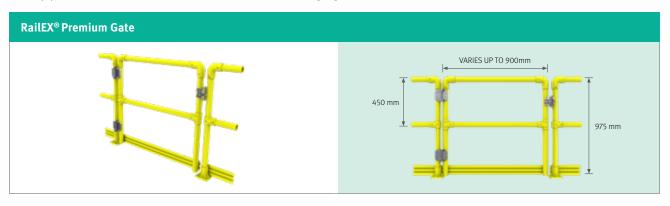
Treadwell specialises in supplying handrail panels manufactured to suit your exact requirements.

From initial design through to site delivery, Treadwell has the expertise and capacity to provide a turnkey handrail solution. From drafting or design, through to fabrication of handrail panels or modules and delivery as well. Treadwell can organise the lot for you.

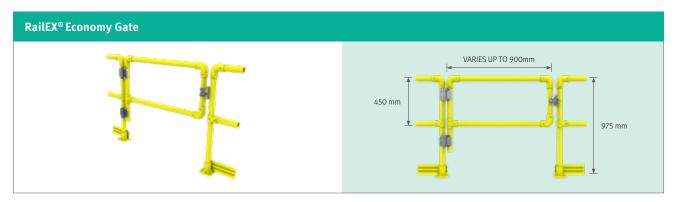
All Treadwell requires in order to undertake this service is the outline of parameters from you to which the handrail needs to be manufactured and our experienced design team can produce a detailed set of design drawings. These will then be submitted for client review and approval prior to being released to the Treadwell manufacturing department for actual fabrication.

Consider the benefits seriously! This saves you excessive site labour costs, makes for fast and efficient onsite installation and ensures you will end up with a satisfactory and professional finished product.

Treadwell's RailEX® gates are self-closing and are designed to attach to RailEX® stanchions. Both Economy and Premium gates can also be simply fitted to LadderEX® ROUND & SQUARE Grab Stiles. Single gates should not exceed 900mm.



Brief:
Premium RailEX® gates are supplied with kick plates for added safety and awareness around sites.



Brief:

A solid industrial safety gate, the economy RailEX® self-closing gate features a spring-loaded mechanism which increases safety in any environment by automatically closing behind after use.



# RailEX® ROUND Specification Guide

#### General

#### 1.0 Scope

The handrail/guard rail shall conform to the material and fabrications requirements as per this specification

#### 2.0 Standards/Related Documents

- 2.1 AS 1657 2018 Fixed platforms, walkways, stairways and ladders – design, construction and installation.
- 2.2 ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- 2.3 ASTM D 635 Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- 2.4 AS 4020 2005 Testing of materials in contact with drinking water (potable).

#### 3.0 Design Criteria

3.1 The design criteria of the fibreglass products (FRP) shall be in accordance with governing building codes and generally accepted standards in the FRP industry.

#### 4.0 Submittals

- 4.1 Shop drawings of all fabricated guard rail/ handrail modules shall be submitted by Treadwell (unless provided by the client) displaying clearly material sizes, types, styles, product codes and including types and sizes of fasteners as well as a layout if required.
- 4.2 Technical data and sample pieces can also be submitted if
- 4.3 No fabrication will commence prior to the client approving the submittal drawings.

# 5.0 Quality Assurance

Quality surrounds every aspect of Treadwell's commitment to our superior products and efficiency. Treadwell's quality assurance strictly adheres to the high quality control standards placed to conform to relevant specifications, codes, Australian Standards and contractual requirements in a timely manner.

# 6.0 Product Delivery Storage

- 6.1 All handrail/guard rail and components or ancillary items shall be fabricated as per the design and piece marked to design drawings.
- 6.2 All manufactured materials shall be delivered in unbroken packages.
- 6.3 Handrails/guard rails shall be fully assembled, ready for installation OR handrails/guard rails shall be trial assembled and flat packed for site assembly and installation.

# **Product System**

#### 7.0 Manufacturing Process

- All fiberglass (FRP) items listed under this section shall be constructed from fiberglass reinforcement and resin of the quality necessary to meet the design requirements and dimensions as specified.
- Fibreglass reinforcement shall be continuous roving and shall be in sufficient quantities as required for the application.
- Resins shall be (refer to page 19) with chemical formulations as necessary to provide the corrosion resistance, strength and any other physical properties as required.
- All finished surfaces are to be smooth, resin-rich free of voids and without dry spots, cracks reinforced areas and all fiberglass reinforced shall be well covered with resin to protect against exposure due to weather or wear.
- All fiberglass (FRP) items shall be EITHER fire retardant OR have a tested flame spread rating of 25 or less when tested in accordance with the ASTM E-84 Tunnel Test.
- All metallic accessories shall be manufactured from 316 stainless steel OR galvanized steel OR Monel. (OR refer to specific uncommon customer requests.)
- The fiberglass reinforcement content shall be maintained at acceptable levels for a) pultruded items and b) SMC moulded items so as to ensure excellent resilience and performance over time.
- 7.8 All fibreglass material shall have an ultraviolet light inhibiting chemical additive to resist UV degradation.
- Colour shall be any Treadwell standard colours (Safety Yellow, Light Grey or a custom colour)

# 8.0 Fabrication & Workmanship

8.1 All cut or machined edges, holes and abrasions shall be sealed with a resin equivalent to the EX-Series® Resin System from which the handrail/guard rail is constructed.

#### 9.0 Installation

9.1 All FRP handrail/guard rail sections shall be installed by others as shown on the approved shop drawings.

### 10.0 Acceptable Manufacture

The fibreglass (FRP) ROUND Handrail System shall be manufactured by Treadwell Group pty Ltd of Australia.

Information contained in this guide is based on data collected from several years of actual industrial applications. Recommendations are based on conservative evaluations of the changes which occur in certain properties of replicate laminates after exposures of one year or longer, both in the laboratory and the field.

Temperatures are neither the minimum nor the maximum but represent standard test conditions (Room Temperature & 70°C). The products may be suitable at higher temperatures but individual test data should be required to establish such suitability.

I-Series® V-Series® Chemical 70°C 70°C Acetaldehyde Acetic Acid 0-25% Acetic Acid 25-50% Acetic Anhydride Acetone Acrylonitrile Alcohol, Butyl Alcohol, Ethyl 10% 66 Alcohol, Ethyl 100% Alcohol, Isopropyl 10% 66 Alcohol, Isopropyl 100% Alcohol, Methyl 10% 66 Alcohol, Methyl 100% Alcohol, Methyl Isobutyl 66 Alcohol, Secondary Butyl 66 Aluminium Aluminium Chloride Aluminium Hydroxide 49 Aluminium Nitrate Aluminium Potassium Sulfate Ammonia, Aqueous 0-10% 38 Ammonia, Gas 38 Ammonium Bicarbonate 49 Ammonium Bisulfite 49 Ammonium Carbonate 49 Ammonium Citrate 49 Ammonium Fluoride 49 Ammonium Hydroxide 5% 49 Ammonium Hydroxide 10% 49 Ammonium Hydroxide 20% 49 Ammonium Nitrate 49 Ammonium Persulfate 49 Ammonium Phosphate 49 Ammonium Sulfate Arsenious Sulfate O-Benzoyl Benzoic Acid Barium Carbonate

Contact Treadwell for any special applications that you may have.

The recommendations ( • : resistant: — :not resistant) contained in this specification sheet are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory oractual field trial prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.

	I-Series®		V-Se	ries®
Chemical	Room Temp	70°C	Room Temp	70°C
Barium Chloride	•	_	•	•
Barium Hydroxide	_	_	•	49
Barium Sulfate	•	•	•	•
Barium Sulfide	_	_	•	•
Beer	•	_	•	49
Benzene	-	-	-	_
5% Benzene in Kerosene	•	-	•	•
Benzene Sulfonic Acid	•	•	•	•
Benzoic Acid	•	-	•	•
Benzyl Alcohol	-	-	•	-
Benzyl Chloride	_	-	-	_
Brass Plating Solution:				
– 3% Copper Cyanide	_	_	•	•
– 6% Sodium Cyanide	-	-	•	•
– 1% Zinc Cyanide	_	_	•	•
- 3% Sodium Carbonate	-	-	•	•
Butyl Acetate	_	_	-	_
Butyric Acid 0-50%	•	_	•	•
Butylene Glycol	•	•	•	•
Cadmium Chloride	•	-	•	•
Cadmium Cyanide Plating Soln	:			
– 3% Cadmium Oxide	-	-	•	49
– 6% Sodium Cyanide	-	-	•	49
– 1% Caustic Soda	-	-	•	49
Calcium Bisulfate	•	•	•	•
Calcium Carbonate	•	-	•	•
Calcium Chlorate	•	•	•	•
Calcium Chloride	•	•	•	•
Calcium Hydroxide	•	-	•	49
Calcium Hypochlorite	•	-	•	49
Calcium Nitrate	•	•	•	•
Calcium Sulfate	•	•	•	•
Calcium Sulfite	•	•	•	•
Caprylic Acid	•	-	•	•
Carbon Dioxide	•	•	•	•
Carbon Disulfide	-	-	-	-
Carbon Monoxide	•	•	•	•



	I-Series®		V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C
Carbon Tetrachloride	-	-	•	38
Carbon Acid	•	_	•	•
Castor Oil	•	•	•	•
Carbon Methyl Cellulose	-	-	•	49
Chlorinated Wax	-	-	•	•
Chlorine Doixide/Air	•	-	•	•
Chlorine Dioxide, Wet Gas	-	-	•	•
Chlorine, Dry Gas	-	_	•	•
Chlorine, Wet Gas	-	-	•	•
Chlorine, Liquid	•-	•-	•-	•-
Chlorine, Water	-	-	•	•
Chloroacetic Acid 0-50%	-	_	•	38
Chlorobenzene	-	-	-	-
Chloroform	-	-	-	-
Chlorosulfonic Acid	-	-	-	-
Chromic Acid 20%	-	-	•	49
Chromic Acid 30%	-	-	-	-
Chromium Sulfate	•	•	•	•
Citric Acid	•	•	•	•
Coconut Oil	•	-	•	•
Copper Chloride	•	•	•	•
Copper Cyanide	-	-	•	•
Copper Fluoride	-	-	•	•
Copper Nitrate	•	•	•	•
Copper Plating Solution:				
– Copper Cyanide	-	_	•	•
– 10.5% Copper	-	-	•	•
– 4% Copper Cyanide	-	_	•	•
– 6% Rochelle Salts	-	-	•	•
Copper Brite Plating:				
– Caustic Cyanide	-	-	•	38
Copper Plating Solution:				
– 45% Copper Fluorobrate	-	-	•	•
– 19% Copper Sulfate	-	_	•	•
– 8% Sulfuric Acid	-	-	•	•
Copper Matte Dipping Bath:				
– 30% Ferric Chloride	-	-	•	•
– 19% Hydrochloric	-	-	•	•
Copper Pickling Bath:				
– 10% Ferric Sulfate	-	-	•	•
– 10% Sulfuric Acid	-	-	•	•
Copper Sulfate	•	•	•	•
Corn Oil	•	-	•	•
Corn Starch-Slurry	•	-	•	•
Corn Sugar	•	-	•	•
Cottonseed Oil	•	-	•	•

	I-Ser	I-Series®		V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C	
Crude Oil, Sour	remp	-	remp	•	
Crude Oil, Sweet	•	_	•		
Cyclohexane	•	_	•	49	
Detergents, Sulfonated	•	_	•	•	
Di-Ammonium Phosphate	•	_	•	•	
Dibromophenol	_	_	_	_	
Dibutyl Ether	_	_	•	49	
Dichloro Benzene	_	_	_	_	
Dichloroethylene	-	-	-	_	
Diesel Fuel	••		••	••	
Diethylene Glycol	•	-	•	•	
Dimenthyl Phthalate	-	-	•	•	
Dioctyl Phthalate	-	-	•	•	
Diprophylene Gylcol	•	-	•	•	
Dodecyl Alcohol	-	-	•	•	
Esters, Fatty Acids	•	•	•	•	
Ethyl Acetate	-	-	-	_	
Ethyl Benzene	-	-	-	_	
Ethyl Ether	-	-	-	-	
Ethylene Gylcol	•	•	•	•	
Ethylene Dichloride	-	-	-	-	
Fatty Acids	•	•	•	•	
Ferric Chloride	•	•	•	•	
Ferric Nitrate	•	•	•	•	
Ferric Sulfate	•	•	•	•	
Ferrous Chloride	•	•	•	•	
Ferrous Nitrate	•	•	•	•	
Ferrous Sulfate	•	•	•	•	
8-8-8 Fertiliser	•	-	•	49	
Fertiliser:					
– Urea Ammoium Nitrate	-	-	•	49	
Fuel Gas	-	-	•	•	
Fluoboric Acid	-	-	•	49	
Fluosilicic Acid 0-20%	-	-	•	•	
Formaldehyde	•	-	•	•	
Formic Acid	•	_	•	•	
Fuel Oil	•	-	•	•	
Gas Natural	•	_	•	•	
Gasoline, Auto	•	-	•	•	
Gasoline, Aviation	•	_	•	•	
Gasoline, Ethyl	•	-	•	•	
Gluconic Acid	•	-	•	•	
Gasoline, Sour	•	-	•	•	
Glucose	•	•	•	•	
Glycerine	•	•	•	•	
Glycol, Ethylene	•	•	•	•	

Chemical   Room   Torc   Room   Torc   Glycol, Ethylene		I-Sei	I-Series®		V-Series®	
Glycol, Propylene Glycolic Acid Gold Plating Solution: - 63% Potassium Ferrocyanide	Chemical	Room Temp	70°C	Room Temp	70°C	
Gold Plating Solution:  - 63% Potassium Ferrocyanide	Glycol, Ethylene	•	•	•	•	
Gold Plating Solution:  - 63% Potassium Ferrocyanide	Glycol, Propylene	•	•	•	•	
- 63% Potassium Ferrocyanide	Glycolic Acid	•	_	•	•	
- 2% Potassium Gold Cyanide	Gold Plating Solution:					
Heptane	– 63% Potassium Ferrocyanide	_	_	•	•	
Hexane	– 2% Potassium Gold Cyanide	-	_	•	•	
Hexane	– 8% Sodium Cyanide	-	-	•	•	
Hexylene Glycol	Heptane	•	-	•	•	
Hydraulic Fluid Hydrobromic Acid 0-25% Hydrochloric Acid 0-37% Hydrocyanic Acid Hydrofluoric Acid 10% Hydrofluoric Acid 10% Hydrofluoric Acid, 10% Hydrogen Bromide, Wet Gas Hydrogen Chloride, Dry Gas Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrosulfite Bleach 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution: - 8% Fluoboric, 0.4% Boric Acid Levulnic Acid Linseed Oil Lithium Bromide	Hexane	•	-	•	•	
Hydrochloric Acid 0-25% Hydrocyanic Acid 0-37% Hydrocyanic Acid 0-37% Hydrofluoric Acid 10% Hydrofluoric Acid 10% Hydrofluosilicic Acid, 10% Hydrogen Bromide, Wet Gas Hydrogen Chloride, Dry Gas Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10% Hydrochloric 23% Sulfuric Isopropyl Amine Let Ival Let Acid Lauroryl Chloride Lauric Acid Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid Levulinic Acid Linseed Oil Lithium Bromide	Hexylene Glycol	•	•	•	•	
Hydrocyanic Acid 0-37%	Hydraulic Fluid	•	-	•	•	
Hydrocyanic Acid Hydrofluoric Acid 10% Hydrofluosilicic Acid, 10% Hydrogen Bromide, Wet Gas Hydrogen Chloride, Dry Gas Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10%  Iron Plating Solution:  - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Lactic Acid Lauroryl Chloride Lauric Acid Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrobromic Acid 0-25%	•	-	•	•	
Hydrofluoric Acid 10%	Hydrochloric Acid 0-37%	•	-	•	•	
Hydrofluosilicic Acid, 10% Hydrogen Bromide, Wet Gas Hydrogen Chloride, Dry Gas Hydrogen Chloride, Wet Gas Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrosulfite Bleach Hydrochlorus Acid 0·10%  Iron Plating Solution:  - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath:  -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Isopropyl Palmitate Jet Fuel Kerosene Lactic Acid Lauroryl Chloride Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution:  - 8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrocyanic Acid	•	-	•	•	
Hydrogen Bromide, Wet Gas Hydrogen Chloride, Dry Gas Hydrogen Chloride, Wet Gas Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10% Iron Plating Solution: - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Isopropyl Palmitate Jet Fuel Kerosene Lactic Acid Lauroryl Chloride Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution:8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrofluoric Acid 10%	-	-	•	-	
Hydrogen Chloride, Dry Gas Hydrogen Peroxide Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10%  Iron Plating Solution:  - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Isopropyl Palmitate Jet Fuel Kerosene Lactic Acid Lauroryl Chloride Lauric Acid Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution:  - 8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrofluosilicic Acid, 10%	-	-	•	•	
Hydrogen Chloride, Wet Gas Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrosulfite Bleach Hydrochlorus Acid 0-10%	Hydrogen Bromide, Wet Gas	-	-	•	•	
Hydrogen Peroxide Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10% Iron Plating Solution: - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Isopropyl Palmitate Jet Fuel Kerosene Lactic Acid Lauroryl Chloride Lauric Acid Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution: - 8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrogen Chloride, Dry Gas	-	-	•	•	
Hydrogen Sulfide, Dry Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10%	Hydrogen Chloride, Wet Gas	-	-	•	•	
Hydrogen Sulfide, Aqueous Hydrogen Fluoride, Vapour Hydrosulfite Bleach Hydrochlorus Acid 0-10%	Hydrogen Peroxide	-	_	•	49	
Hydrogen Fluoride, Vapour  Hydrosulfite Bleach  Hydrochlorus Acid 0-10%  Iron Plating Solution:  - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4  Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric  Isopropyl Amine Isopropyl Palmitate  Jet Fuel  Kerosene  Lactic Acid Lauroryl Chloride  Lauric Acid Lead Acetate Lead Chloride Lead Nitrate  Lead Plating Solution:8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrogen Sulfide, Dry	•	-	•	•	
Hydrosulfite Bleach Hydrochlorus Acid 0-10% Iron Plating Solution:  - 45% Fecl: 15% Cacl - 20% Fecl: 11% (Nh4)2 So4 Iron And Steel Claeaning Bath: -9% Hydrochloric: 23% Sulfuric Isopropyl Amine Isopropyl Palmitate Jet Fuel Kerosene Lactic Acid Lauroryl Chloride Lauric Acid Lead Acetate Lead Chloride Lead Nitrate Lead Plating Solution:8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Hydrogen Sulfide, Aqueous	•	-	-	•	
Hydrochlorus Acid 0-10%	Hydrogen Fluoride, Vapour	-	-	•	•	
Iron Plating Solution:  - 45% Fecl: 15% Cacl	Hydrosulfite Bleach	-	-	•	49	
- 45% Fecl: 15% Cacl	Hydrochlorus Acid 0-10%	-	-	-	-	
Tron And Steel Claeaning Bath:   -9% Hydrochloric: 23% Sulfuric   -   -        -9% Hydrochloric: 23% Sulfuric   -   -      -9% Hydrochloric: 23% Sulfuric   -   -      -9% Hydrochloric: 23% Sulfuric   -	Iron Plating Solution:					
Iron And Steel Claeaning Bath:  -9% Hydrochloric: 23% Sulfuric • • 180 Sulfuric	– 45% Fecl: 15% Cacl	-	-	•	•	
-9% Hydrochloric: 23% Sulfuric 38 Isopropyl Amine 38 Isopropyl Palmitate • • • • • • • • • • • • • • • •	– 20% Fecl: 11% (Nh4)2 So4	-	-	•	•	
Isopropyl Amine Isopropyl Palmitate  Jet Fuel  Kerosene Lactic Acid Lauroryl Chloride Lauric Acid Lead Acetate Lead Chloride Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid Linseed Oil Lithium Bromide	Iron And Steel Claeaning Bath:					
Isopropyl Palmitate  Jet Fuel  Kerosene  Lactic Acid  Lauroryl Chloride  Lauric Acid  Lead Acetate  Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Linseed Oil  Lithium Bromide	–9% Hydrochloric: 23% Sulfuric	-	-	•	•	
Jet Fuel  Kerosene  Lactic Acid  Lauroryl Chloride  Lauric Acid  Lead Acetate  Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Linseed Oil  Lithium Bromide	Isopropyl Amine	-	-	•	38	
Kerosene  Lactic Acid  Lauroryl Chloride  Lauric Acid  Lead Acetate  Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Levulinic Acid  Linseed Oil  Lithium Bromide	Isopropyl Palmitate	•	•	•	•	
Lactic Acid  Lauroryl Chloride  Lauric Acid  Lead Acetate  Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Levulinic Acid  Linseed Oil  Lithium Bromide	Jet Fuel	•	-	•	•	
Lauroryl Chloride	Kerosene	•	-	•	•	
Lauric Acid  Lead Acetate  Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Levulinic Acid  Linseed Oil  Lithium Bromide	Lactic Acid	•	-	•	•	
Lead Acetate  Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Levulinic Acid  Linseed Oil  Lithium Bromide	Lauroryl Chloride	-	-	•	•	
Lead Chloride  Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Levulinic Acid  Linseed Oil  Lithium Bromide	Lauric Acid	•	-	•	•	
Lead Nitrate  Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid  Levulinic Acid  Linseed Oil  Lithium Bromide	Lead Acetate	•	-	•	•	
Lead Plating Solution: 8% Fluoboric, 0.4% Boric Acid •  Levulinic Acid • - •  Linseed Oil • •  Lithium Bromide • •	Lead Chloride	•	-	•	•	
8% Fluoboric, 0.4% Boric Acid •  Levulinic Acid • - •  Linseed Oil • •  Lithium Bromide • •	Lead Nitrate	•	-	•	•	
Levulinic Acid	Lead Plating Solution:					
Linseed Oil • • • • • Lithium Bromide • • • • • • • • • • • • • • • • • • •	8% Fluoboric, 0.4% Boric Acid	-	-	•	•	
Lithium Bromide • • •	Levulinic Acid	•	-	•	•	
	Linseed Oil	•	•	•	•	
Lithium Sulfate • • •	Lithium Bromide	•	•	•	•	
	Lithium Sulfate	•	•	•	•	

	I-Series®		V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C
Magnesium Bisulfite	•	-	•	•
Magnesium Carbonate	•	-	•	•
Magnesium Chloride	•	•	•	•
Magnesium Hydroxide	-	-	•	60
Magnesium Nitrate	•	-	•	•
Magnesium Sulfate	•	•	•	•
Maleic Acid	•	•	•	•
Mercuric Chloride	•	-	•	•
Mercurous Chloride	•	-	•	•
Methylene Chloride	-	-	-	-
Methyl Ethyl Ketone	-	-	-	-
Methyl Isobutyl Carbitol	-	-	-	-
Methanol (See Alcohol)	•	-	•	•
Methyl Isobutyl Ketone	-	-	-	-
Methyl Styrene	-	-	-	-
Mineral Oils	•	•	•	•
Molybdenum Disulfide	•	-	•	•
Monochloro Acetic Acid	-	-	-	-
Monoethyanolamine	-	-	-	-
Motor Oil	•	•	•	•
Myristic Acid	-	-	•	•
Naptha	•	•	•	•
Napthalene	•	-	•	•
Nickel Chloride	•	•	•	•
Nickel Nitrate	•	•	•	•
Nickel Plating:				
- 8% Lead, 0.8% Flouboric Acid	-	-	•	•
- 0.4% Boric Acid	-	-	•	•
Nickel Plating:				
– 11% Nickel Sulfate	•	-	•	•
– 2% Nickel Chloride	•	-	•	•
– 1% Boric Acid	•	-	•	•
Nickel Plating:				
- 44% Nickel Sulfate	•	-	•	•
<ul> <li>4% Ammonium Chloride</li> </ul>	•	-	•	•
– 4% Boric Acid	•	-	•	•
Nickel Sulfate	•	•	•	•
Nitric Acid 0-5%	•	•	•	•
Nitric Acid 20%	-	-	•	49
Nitric Acid Fumes	-	-	-	-
Nibrobenzene	-	-	-	-
Octanoci Acid	•	-	•	•
Oil, Sour Crude	•	•	•	•
Oil, Sweet Crude	•	•	•	•
Oleic Acid	•	•	•	•
Oleum (Fuming Sulfuric)	-	-	-	-

	I-Series®		V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C
Oleum (Fuming Sulfuric)	-	-	-	-
Olive Oil	•	•	•	•
Oxalic Acid	•	•	•	•
Peroxide Bleach:				
– 25% Peroxide 95%	•	•	•	•
- 0.025% Epsom Salts	•	•	•	•
- 5% Sodium Silicate 42.Be	•	•	•	•
- 1.4% Sulfuric Acid 66.Be	•	•	•	•
Phenol	-	-	-	-
Phenol Sulfonic Acid	-	-	_	_
Phosphoric Acid	•	•	•	•
Phosphoric Acid Fumes	•	•	•	•
Phosphorous Pentoxide	•	•	•	•
Phosphorous Trichloride	-	-	-	-
Phthalic Acid	•	•	•	•
Pickling Acids (Sulfuric & Hydrochloric)	•	•	•	•
Picric Acid, Alcoholic	-	-	-	-
Polyvinyl Acetate Latex	•	-	•	•
Polyvinyl Alcohol	•	-	•	38
Polyvinyl Chloride Latex W/35 (Parts Dop)	-	-	•	49
Potassium Aluminium Sulfate	•	•	•	•
Potassium Bicarbonate	•	-	•	60
Potassium Bromide	•	-	•	38
Potassium Carbonate	•	-	•	60
Potassium Chloride	•	•	•	•
Potassium Dichromate	•	-	•	60
Potassium Ferricyanide	•	•	•	•
Potassium Ferrocyanide	•	•	•	•
Potassium Hydroxide	-	-	•	66
Potassium Nitrate	•	•	•	•
Potassium Permanganate	•	-	•	60
Potassium Persulfate	•	-	•	•
Potassium Sulfate	•	•	•	•
Propionic Acid 1-50%	-	-	•	49
Propionic Acid 50-100%	-	-	-	-
Propylene Glycol	•	•	•	•
Pulp Paper Mill Effluent	•	-	•	•
Pyridine	-	-	-	-
Salicylic Acid	-	-	•	60
Sebacic Acid	-	-	•	•
Selenious Acid	-	_	•	•
Silver Nitrate	•	•	•	•
Silver Plating Solution:				
- 44% Silver Cyanide	_	_	•	•
- 7% Potassium Cyanide	_	_	•	•
- 5% Sodium Cyanide	-	_	•	•

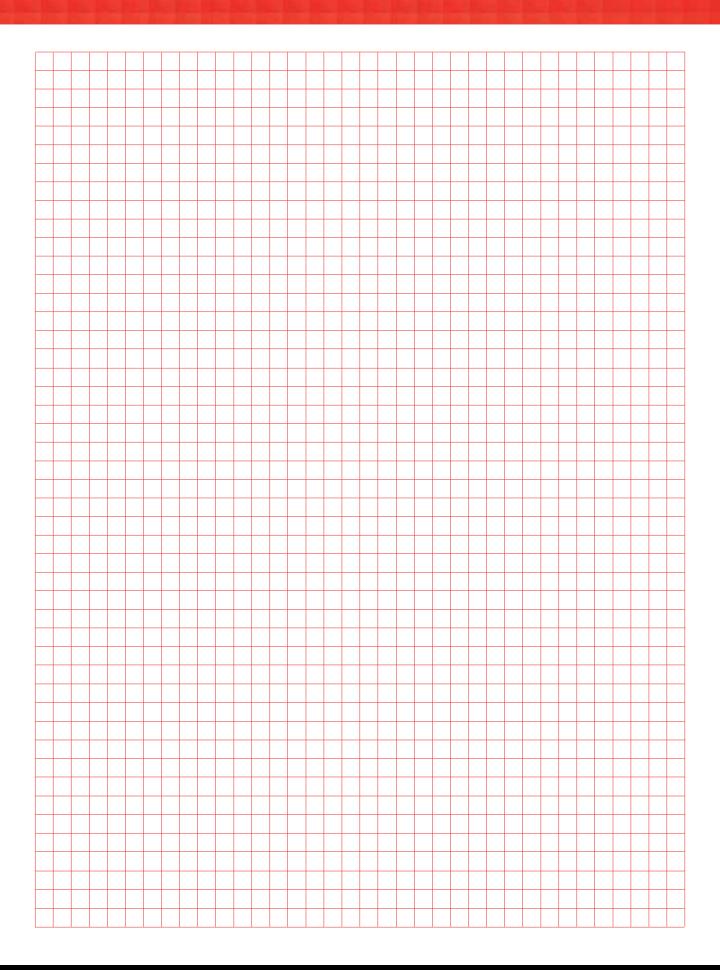
	I-Sei	ies®	V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C
– 2% Potassium Carbonate	-	-	•	•
Soaps	•	-	•	•
Sodium Acetate	•	-	•	•
Sodium Benzoate	•	-	•	•
Sodium Bicarbonate	•	•	•	•
Sodium Bifluoride	•	-	•	49
Sodium Bisulfate	•	•	•	•
Sodium Bisulfite	•	•	•	•
Sodium Bromate	•	•	•	60
Sodium Bromide	•	•	•	•
Sodium Carbonate 0-25%	•	-	•	•
Sodium Chlorate	•	-	•	•
Sodium Chloride	•	•	•	•
Sodium Chlorite	•	-	•	•
Sodium Chromite	•	•	•	•
Sodium Cyanide	•	-	•	•
Sodium Dichromate	•	•	•	•
Sodium Di-Phosphate	•	•	•	•
Sodium Ferricyanide	•	•	•	•
Sodium Fluoride	•	-	•	49
Sodium Fluoro Silicate	-	-	•	49
Sodium Hexametaphosphates	-	-	•	38
Sodium Hydroxide 0-5%	-	-	•	66
Sodium Hydroxide 5-25%	-	-	•	66
Sodium Hydroxide 50%	-	-	•	66
Sodium Hydrosulfide	•	-	•	•
Sodium Hypochlorite	•	-	•	66
Sodium Lauryl Sulfate	•	•	•	•
Sodium Mono-Phosphate	•	•	•	•
Sodium Nitrate	•	•	•	•
Sodium Silicate	•	-	•	•
Sodium Sulfate	•	•	•	•
Sodium Sulfide	•	-	•	•
Sodium Sulfite	•	_	•	•
Sodium Tetra Borate	•	•	•	•
Sodium Thiocyanate	-	-	•	•
Sodium Thiosulfate	•	-	•	•
Sodium Tripolyphosphate	•	-	•	•
Sodium Xylene Sulfonate	•	-	•	•
Sodium Solutions	•	-	•	•
Sodium Crude Oil	•	•	•	•
Soya Oil	•	•	•	•
Stannic Chloride	•	•	•	•
Stannous Chloride	•	•	•	•
Stearic Acid	•	•	•	•
Styrene	-	-	-	-

	I-Series®		V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C
Sugar, Beet And Cane Liquor	•	-	•	•
Sugar, Sucrose	•	•	•	•
Sulfamic Acid	•	-	•	•
Sulfanilic Acid	•	-	•	•
Sulfated Detergents	•	-	•	•
Sulfur Dioxide, Dry Or Wet	_	-	•	•
Sulfur Trioxide/Air	-	-	•	•
Sulfuric Acid 0-30%	•	•	•	•
Sulfuric Acid 30-50%	-	-	•	•
Sulfuric Acid 50-70%	_	-	•	49
Sulfurous Acid	-	-	•	38
Superphosphoric Acid (76% P2 05)	•	-	•	•
Tall Oil	•	-	•	60
Tannic Acid	•	-	•	66
Tartaric Acid	•	•	•	•
Thionyl Chloride	-	-	-	-
Tin Plating:				
– 18% Stannous Fluorborate	-	-	•	•
– 7% Tin	-	-	•	•
– 9% Fluoroboric Acid	-	-	•	•
– 2% Boric Acid	-	-	•	•
Toluene	-	-	-	-
Toluene Sulfonic Acid	-	-	•	•
Transformer Oils:				
– Mineral Oil Types	•	•	•	•
– Chloro-Phenyl Types)	•	•	•	•
Trichlor Acetic Acid	•	-	•	•
Trichlorethylene	-	-	-	-
Trichloropenol	-	-	-	-
Tricresyl Phosphate	-	-	•	49
Tridecylbenzene Sulfonate	•	-	•	•
Trisodium Phosphate	•	-	•	•
Turpentine	-	-	•	38
Urea	-	-	•	38
Vegetable Oils	•	•	•	•
Vinegar	•	•	•	•
Vinyl Acetate	-	-	-	-
Water:				
– Deionised	-	-	-	-
<ul> <li>Demineralised</li> </ul>	•	•	•	•
– Distilled	•	•	•	•
– Fresh	•	•	•	•
– Salt	•	•	•	•
– Sea	•	•	•	•
White Liquor (Pulp Mill)	•	-	•	•
Xylene	-	-	-	-

	I-Series®		V-Series®	
Chemical	Room Temp	70°C	Room Temp	70°C
White Liquor (Pulp Mill)	•	-	•	•
Xylene	-	-	-	-
Zinc Chlorate	•	•	•	•
Zinc Nitrate	•	•	•	•
Zinc Plating Solution:				
– 9% Zinc Cyanide	-	-	•	49
– 4% Sodium Cyanide	-	-	•	49
-9% Sodium Hydroxide	-	-	•	49
Zinc Plating Solution:				
– (49% Zinc Fluoroborate	•	-	•	•
– 5% Ammonium Chloride	•	-	•	•
– 6% Ammonium Fluoroborate	•	-	•	•
Zinc Sulfate	•	•	•	•



# Notes







# TREADWELL

Treadwell brands mentioned in this document are all registered brands of Treadwell Group Pty Ltd. All pictures and information are supplied as a guide only. The complete range of Treadwell products are developed, refined, made to meet and exceed stringent specifications for the worldwide market.

mportant Note: Sales of products are subject to our Terms and Conditions which are available upon request. All pecifications and photos are a guide only and are subject to change without notice. Please ring to confirm details. readwell products stated only comply with relevant standards mentioned within this publication when installed and used is they are designed to be.



