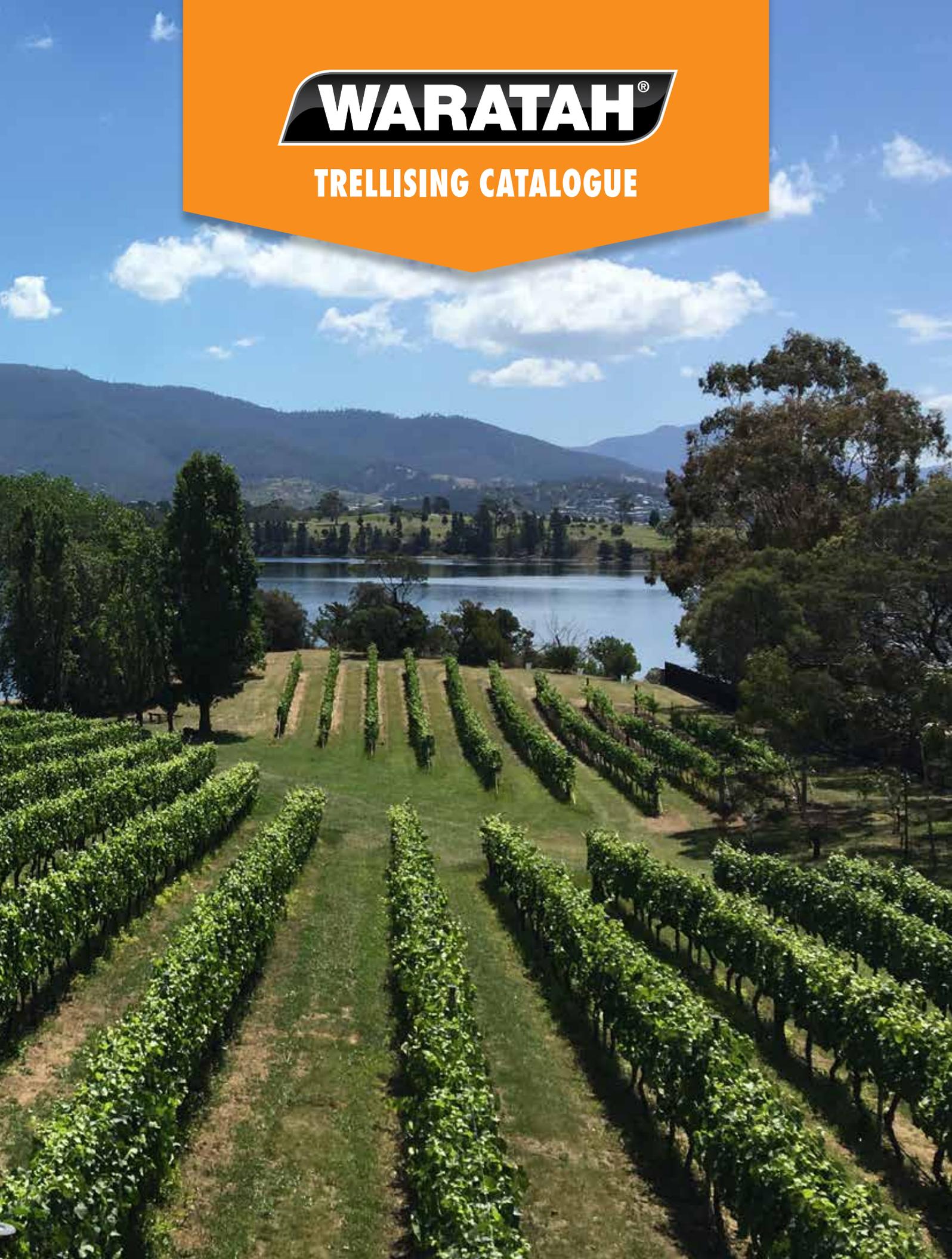


**WARATAH<sup>®</sup>**

**TRELLISING CATALOGUE**



**Visit [waratahfencing.com.au](http://waratahfencing.com.au) or call 13 10 80 to learn more.**

# WARATAH'S COMPLETE TRELLISING SOLUTION.

Since 1884 Waratah has led the way in fencing innovation for the agricultural industry. Waratah also work with viticulturalists around the world to develop innovative trellising solutions that are best suited to unique Australian and New Zealand conditions.

Waratah trellising products inherit the same values that have helped the Waratah brand become a trusted name in fencing.

## **Knowledge**

Over 135 years working within the industry, manufacturing quality products and solutions

## **Availability**

Products to suit your specifications & conditions, at reputable distribution outlets

## **Quality**

Stringent manufacturing processes & adherence to global quality standards

## **Consistency**

Delivering products that perform consistently, every time

## **Innovation**

Investing in innovation is what makes Waratah a market leader

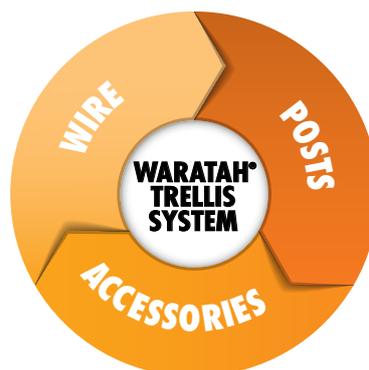
## **Service**

With the largest service & distribution network, support & advice is never far away

## **Range**

The widest range of products to meet your needs and budget

Use this catalogue as your introduction to the range of trellising products available from Waratah and then reach out to our experienced team who can discuss your specific trellising design.



# YOUR TRELLIS DESIGN

## IT'S A LOADED QUESTION

Just like the grapes that are grown on them, there are many varieties of trellis construction in Australian viticulture. But no matter what type of trellis design you select and employ in your location, the loads that have to be carried by trellis structures are broadly of a similar nature. There are three basic types, all of which need to be taken into consideration when selecting your trellis design.

**CROP LOAD:** This type of load covers all the things that the trellis structure has to support. It includes not only fruit, shoots and cordons, but also contributing factors such as yield, design of trellis, training methods, pruning and crop management.

**FRUIT LOAD:** This type of load is defined as the total fruit weight hanging down from the fruiting/foilage wires. This load is eventually transferred to the trellis post. In most instances, the surface area of the post and the friction created by it in the soil will prevent the post from sinking.

**WIND LOAD:** This type of load is reasonably self explanatory. It is caused by wind blowing onto the canopy. Leverage resulting from the action of the wind is the most common cause of post failure. There are many factors that can have a bearing on trellis structure performance which is subject to wind loading. Factors that can affect your choice of trellis design include trellis height, expected weight of foliage and application of additional wind loads such as bird netting.

As a general rule, on areas of the trellis that are most susceptible to wind damage, Waratah recommends not joining coils of wire and spacing your trellis posts closer together. This will ensure a stronger trellis and help prevent against wind damage.

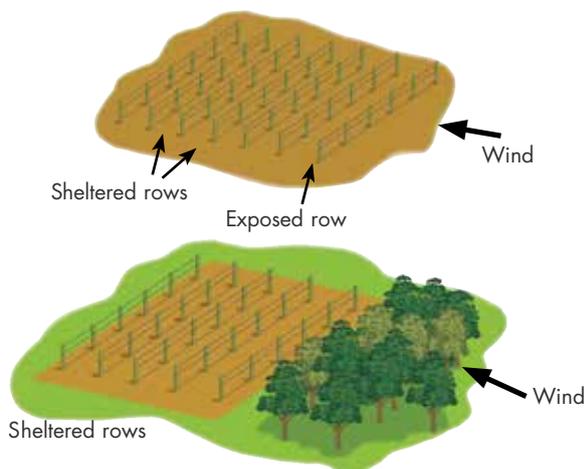
LOAD/FORCE	LOW	MEDIUM	HIGH
Crop	Less than 5 tonne per ha	5-10 tonne per ha	10+ tonne per ha
Wind (3 second gust)	20km/h (sheltered)	40km/h (partially sheltered)	90km/h (exposed)

Wind exposure data obtained from Meteorology Department

## INFLUENCING FACTORS FOR WIND LOAD

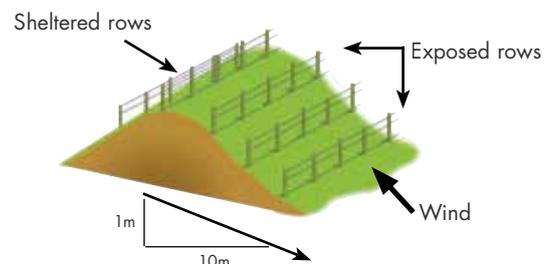
Examples of trellis rows sheltered and exposed from the wind

### Flat land:



### Sloping land:

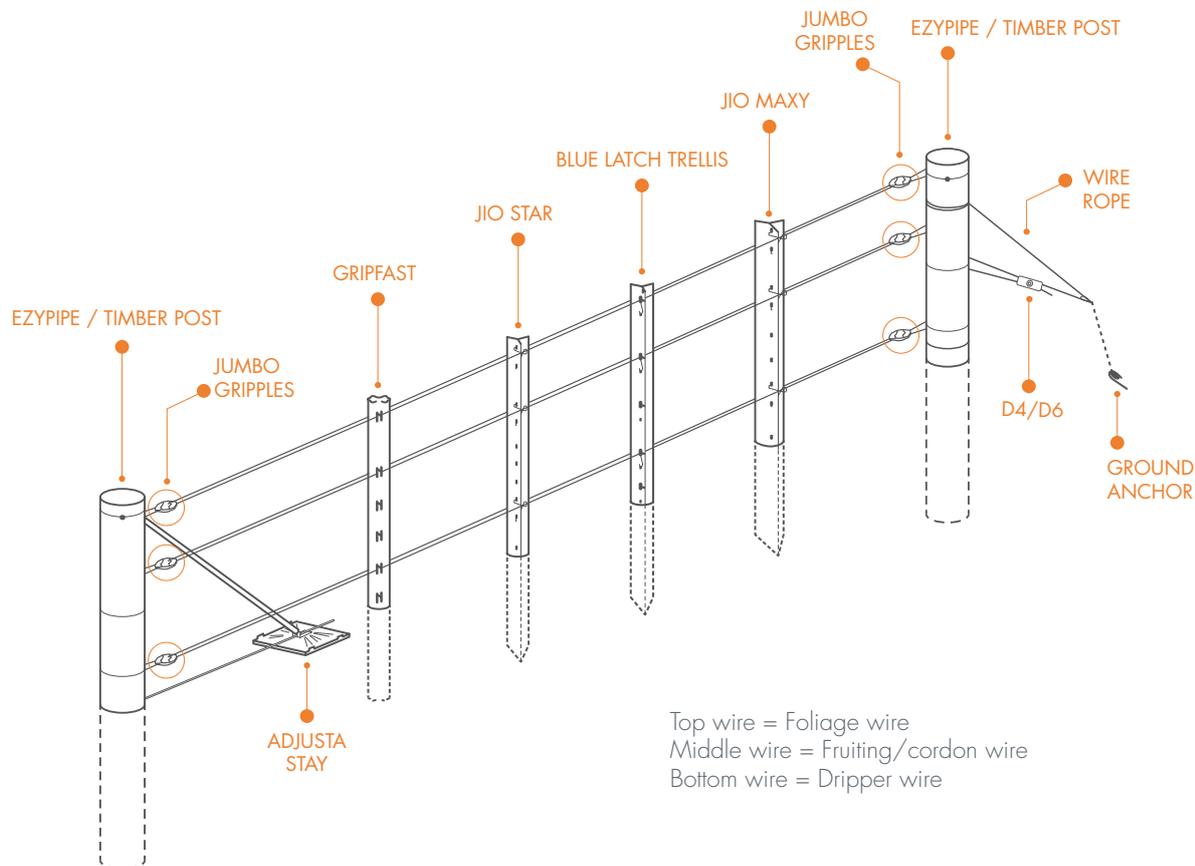
Slope steeper than 1 in 10 (for every 10m horizontal distance the slope of the land rises or drops 1m)



Actual wind loads on trellis systems should be determined by site specific measurements or be determined in accordance with AS/NZS 1170.2

# WARATAH PRODUCTS USED IN A TRELLIS SYSTEM

The diagram below shows some examples of Waratah trellising products which could be used in a trellising application. This is not a sample trellis design.



## TRELLIS PRODUCT GUIDE

POST	SIZE	IN GROUND (CM)		ABOVE GROUND (CM)		
Ezypipe® strainer post	2.15m	85		130		
	2.50m	90-110		140-160		
	3.25m	120		205		
Gripfast®, Blue Latch™ trellis, Jio® Star®, Jio MaxY®	1.80m	60		120		
	2.10m	60		150		
	2.40m	60		180		
	2.70m	90		180		
Vine spacing within row	1.5m	1.8m		2.0m		
Wind exposure of posts	Exposed	Sheltered	Exposed	Sheltered	Exposed	Sheltered
Post spacing	3.0m	6.0m	3.6m	5.4m	4.0m	6.0m
Ratio of posts to intermediate post	3:1	4:1	2:1	4:1	2:1	4:1
WIRE	SIZE	IDEAL USE ON THE TRELLIS		RECOMMENDED TENSION		
Growire® Longlife Blue® trellis wire	3.15mm	Heavy fruiting and high loads		3.1kN		
	2.85mm	Support foliage and fruiting/cordon wire		2.2kN		
	2.65mm	Catching or foliage support		2.0kN		
Growire Longlife Blue dripper wire	2.00mm	Dripper wire		1.0kN		
Growire Zalcote tomato wire	2.00mm	Tomato trellising		Hand tensioned		
Galvanized trellis wire	3.15mm	Hops and pole trellis systems		4.0kN		

# WARATAH PRODUCTS USED IN A TRELLIS SYSTEM

## COST CONSIDERATIONS

When choosing the material for your trellis it is important to consider all the factors that may have a bearing on costs.

### Product Choice

Poor-quality materials tend to perform inefficiently and result in significant repair and maintenance costs. The cost difference between ineffective materials and a high-quality steel will quickly outweigh on the cost of breakages, repairs and maintenance.

Using a high-quality trellis wire will lengthen the life of your trellising system. By pairing a Waratah Longlife wire with another Waratah product, such as a Jio, Gripfast or Blue Latch™ trellis post, the wire will outperform wire fixed firmly by staples.

### Maintenance

The profile of Waratah posts has been designed to lower the susceptibility of breakages from machinery. If replacement posts are required, a Waratah post is ideal as it can be integrated with various trellising layouts, including timber.

### Installation

In comparison to timber, steel posts are lighter and have a smaller profile, this means that all Waratah products can be handled by one person and do not require digging or the use of heavy machinery to install. The various wire attachments and post designs, makes installing a Waratah trellis system quick and simple.



## WHY WARATAH?

Waratah is the only Australian manufacturer controlling every step in the process, from mining the ore, smelting the steel, casting the billet, through to rolling the rod and then drawing and galvanizing the wire to Waratah's exacting processes and standards.

### Recyclable

All Waratah wire, posts and strainers are 100% recyclable. They can be sold to recyclers after their lifespan. Don't be left with a stockpile of old Copper Chrome Arsenic (CCA) timber posts that are difficult to dispose of.



### Organic

Using a combination of Waratah posts, wire, strainers and stays will ensure that your trellis system ticks all the boxes to gain organic certification, unlike treated timber which is prohibited to be used on an organic property.

### Versatile

All Waratah products can be used in new trellis designs or can be added to a pre-existing trellis design. The versatility of all Waratah's products means that there is an effective solution available to suit your crop and conditions.



# POSTS

The key to the strength and longevity of a Waratah trellis system is the superior quality of Waratah posts and strainers. The steel post and strainer range is the ideal alternative to timber.

- All Waratah posts are recyclable and do not leach harmful chemicals into the soil, unlike Copper Chrome Arsenic (CCA) or Creosote treated timber
- Waratah steel posts are 100% recyclable and meet the requirements for organic certification
- Waratah strainer assemblies are effective and consistent
- The range of posts and strainers are easy to handle and simple to install

Covered in this section:

**Strainer post assemblies | Trellis posts | Jio® posts | Jio offset attachment**



# POSTS | POST RANGE

## EZYPIPE® STRAINER POST

The Ezypipe strainer posts are an ideal and popular alternative to traditional timber strainer posts.

- Best suited to medium-soft ground applications where the greater surface area and anchor points provide improved ground-holding capacity. The design of the post offers user flexibility as it can be used with an adjusta-stay (pictured)
- Economical to install and capable of withstanding heavy loads
- Termite proof and fire resistant
- Hot-dipped galvanized coating (min 300g/m<sup>2</sup>) for good corrosion protection
- Anchor points on the strainer allow for Star® posts to be driven through as an anchor pin to provide greater holding capacity



### SPECIFICATIONS

- Pipe: 89mm (OD) x 4mm (wall)
- Material: 250 grade pipe
- Coating: hot-dipped galvanized (min 300g/m<sup>2</sup>)
- Lengths available: 2.15m, 2.50m, 3.25m

## ADJUSTA-STAY®

It has been proven as one of the most versatile stays on the market. The Adjusta-stay is ideal for all terrain types and can be used with timber and steel strainer posts.

- Remains within the row and reduces damage to the trellis. No tie back method required
- Requires no digging and can be installed in less than five minutes with correct tools (optional Adjusta-stay tube socket available)
- Effective in all types of terrain including sloping, hard or rocky ground
- Termite proof and resistant to UV and fire
- Designed for strength, reliability and ease of use

### SPECIFICATIONS

- Pipe: 50NB pipe x 60.30mm (OD) x 2.30mm (wall) x 3m length
- Coating: Hot-dipped galvanized (min 300g/m<sup>2</sup>)
- Ground engaging pad: Plastic (406mm x 487mm x 50mm<sup>†</sup>)
- Hot-dipped tension rod length: 3.25m x M12 (12mm) with nuts and washers



Ezypipe strainer post



Timber strainer post

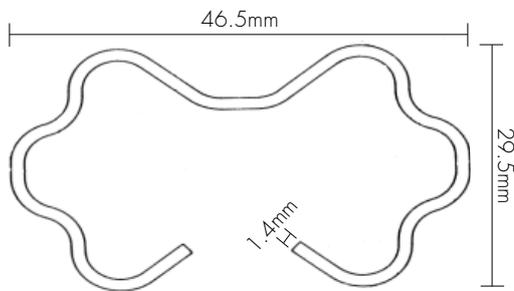


# POSTS | POST RANGE

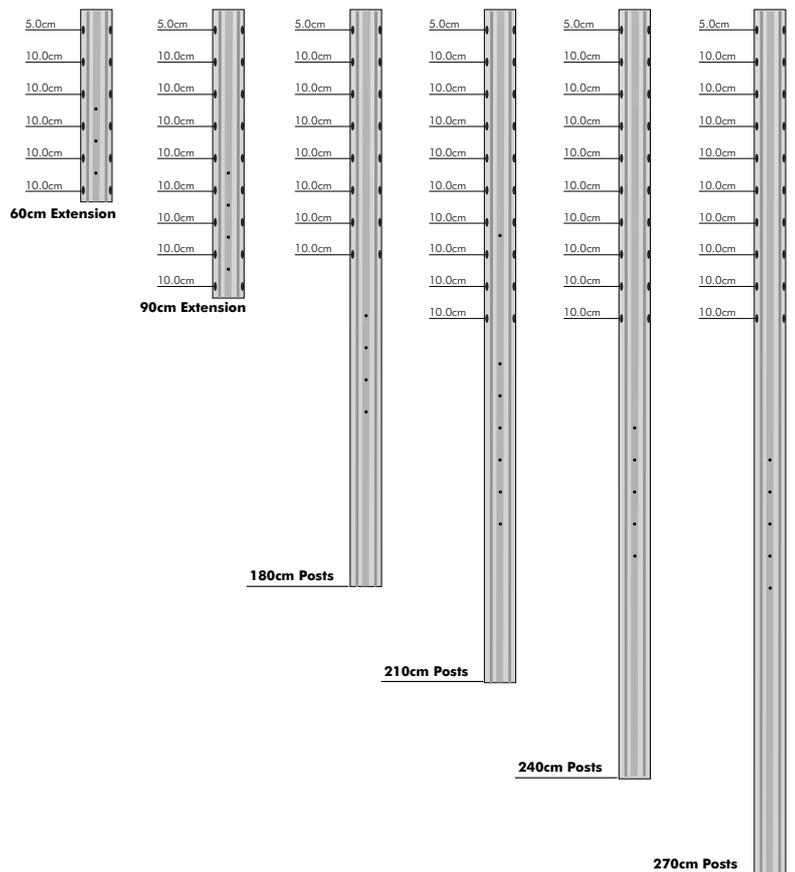
## GRIPFAST® TRELLIS POSTS & EXTENSIONS

The six-crescent design allows for versatility in managing canopies when undertaking manual or mechanical harvesting and pruning. The unique design can withstand loads from either side yet supports partial flexing during mechanical harvesting and pruning without damage occurring.

- Manufactured in Geelong, Victoria
- Unique design to provide maximum strength and load carrying capacity
- Exclusive slot design along the length of the post allows easy height adjustment of foliage wires
- No staples or clips mean reduced installation costs
- 100% recyclable and meets organic certifications
- The post does not generate a whistling sound in the breeze
- In line zinc alloy galvanized to a minimum of 275g/m<sup>2</sup>
- Manufactured from strong 1.4mm steel to Australian Standard AS1397:2011
- Can be used in both new developments and to replace existing failed trellis structure
- Gripfast extensions can be used on timber posts to increase trellis height
- Wires do not protrude past the post profile, therefore maximising the efficiency of machine picking and pruning
- Light weight and easy to carry



Six-crescented design profile



Refer to page 2 for a guide on post installation depths

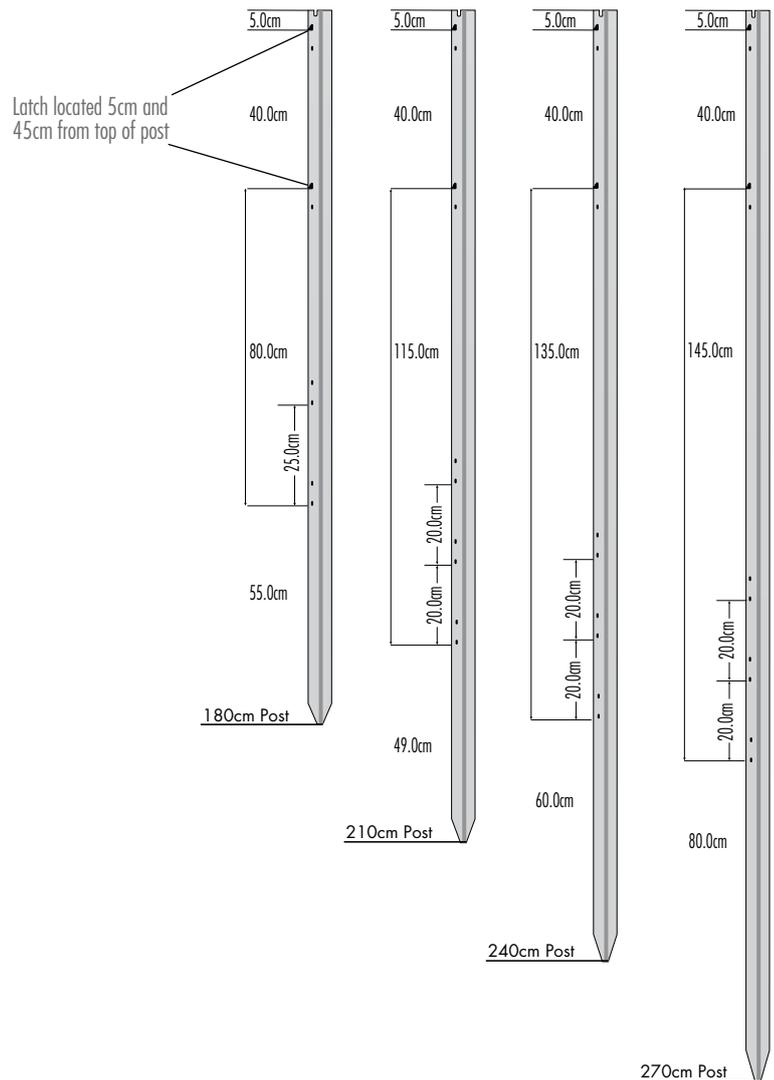


# POSTS | POST RANGE

## BLUE LATCH™ TRELLIS POST

The unique design of a Waratah Blue Latch trellis post has solid ground holding ability and increases the simplicity of wire installation in any trellis design. Each Blue Latch trellis post is fitted with a spring wire latch which allows wires to be quickly installed or removed. The posts are a hot dipped galvanized coating and the spring latch has a Longlife Blue® coating which protects the steel from corroding.

- Manufactured in Newcastle, NSW from 100% Australian Steel
- Spring latch design to keep the latch closed and the trellis wire securely attached
- The spring latch allows wires to be quickly removed during maintenance seasons
- Wires do not protrude past the post profile, therefore maximising the efficiency of machine picking and pruning
- Post are light and easy to carry and can be installed using a post driver
- Conveniently packed loose or in bundles of 100



Refer to page 2 for a guide on post installation depths

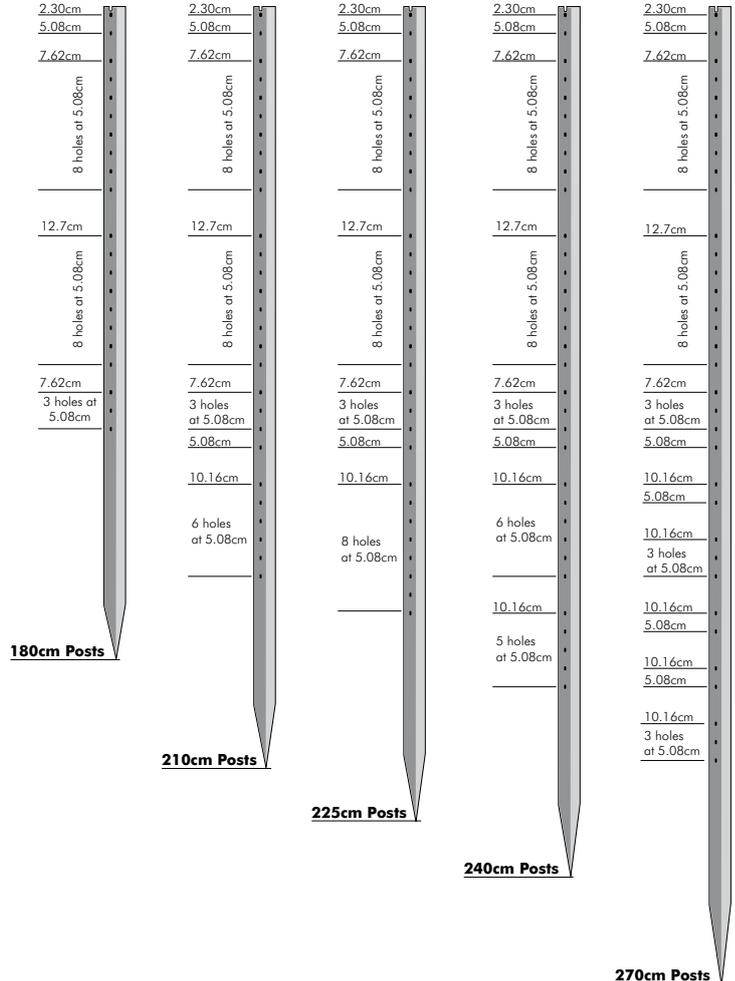


# POSTS | POST RANGE

## JiO® STAR® & JiO MAXY® POSTS

Jio Star and Jio Maxy posts follow the Y-bar shape however instead of round holes, the post utilises an oval design which has been innovated for more attachment options and various trellis designs. The combination of multiple attachment points and the addition of Jio Clips offer increased efficiency and many design alternatives to suit most trellis needs.

PRODUCT FEATURE	JiO STAR	JiO MAXY
Manufactured in Newcastle, NSW from 100% Australian Steel	✓	✓
Rounded edges reduce wear on machine harvesters	✓	✓
More holes for improved wire alignment and attachment options	✓	✓
Range of wire attachment options available	✓	✓
The Jio post is 100% recyclable	✓	✓
Suitable for organically certified properties	✓	✓
Hot dipped galvanized coating (min 600g/m <sup>2</sup> )	✓	✓
Can be used as an intermediate post		✓
33% stronger and 40% larger than a Jio Star post		✓
Increased ground holding capability due to larger profile		✓
Conveniently packed loose or in bundles of 100		✓



Refer to page 2 for a guide on post installation depths

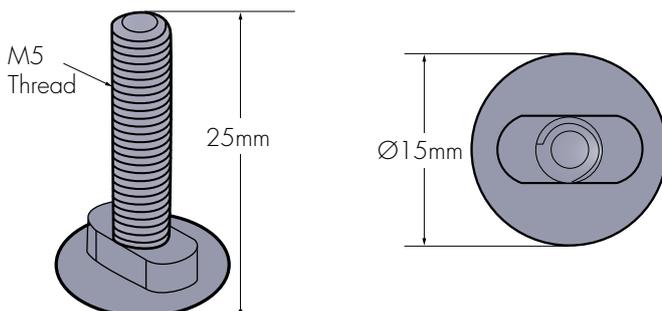
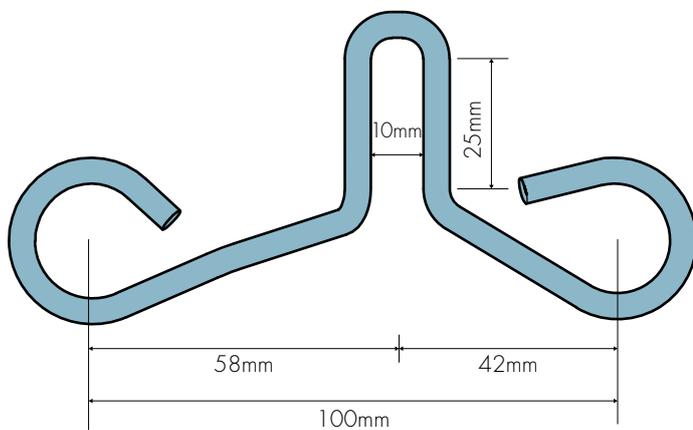


# POSTS | ATTACHMENTS

## JIO DUAL OFFSET

Waratah's Jio dual offsets have been specifically designed to fit both Jio Star and Jio MaxY profiles as well as most other 'Y' posts. The attachments are an effective solution to hold and support trellis wire at any height and on both sides of a Jio post. Installation is simple; the attachment is secured with steel bolt connections and the wire is easily placed in position.

- Spreads cordon wires up to 100mm apart
- Assists with creating shade to manage bunch exposure
- Wire can be easily removed from the offset prior to vineyard maintenance work
- Meets requirements for organic certification
- The offset pushes the fruiting wire out to allow more airflow
- Longlife Blue coating which protects the attachment from corroding
- Easy installation with an impact drill
- Made from a 5mm high tensile wire
- Double bolted for increased strength and security
- Bolt has a shoulder to stop spinning during installation





# WIRE

Using a high-quality trellis wire will extend the life of your trellising system. All Waratah wire is made from grade specific Australian steel. Waratah controls every step of the manufacturing process – from our own mines, right through to the Waratah wire in your trellis structure.

- Waratah has developed a Longlife Blue coating that will make your wire last longer than standard and heavy galvanized wire
- Tested in the field and lab for over 20 years
- Waratah wire is available in sizes for all trellising applications
- Easy to handle payout from the roll with no tangles or kinks

Covered in this section:

**Longlife Blue wire technology | Trellising wire**



## IF IT'S NOT BLUE, IT'S NOT WARATAH®!



## WHY BUY **ONGLIFE BLUE COLOUR®** WIRE?

Waratah's Longlife coated wire has been proven to last at least 9 times longer than standard galvanized and at least 1.5 times longer than heavy galvanized wire.

The wire is manufactured in Australia to exceed Australian Standards. Over the past 20 years the coating has been tested in the field and laboratory. The wire core is made from premium grade steel which makes it easier to handle and means less breakages. The quality and consistency that results from these stringent manufacturing and processing standards, guarantees that you are getting Australia's leading trellis wire, Waratah Longlife Blue.

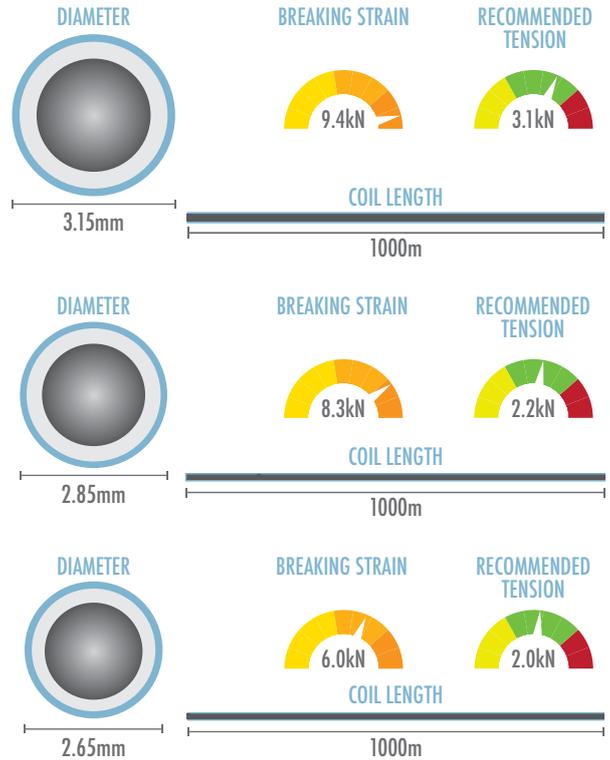


# WIRE | TRELLISING WIRE

## GROWIRE® LONGLIFE BLUE® TRELLIS WIRE

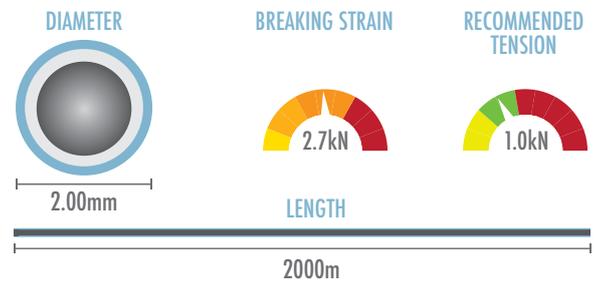


- Ideal for all trellis applications
- 3.15mm Growire: one of our strongest trellis wire and is ideally suited to heavy fruiting and higher load situations
- 2.85mm Growire: ideally suited to support foliage and for use as a permanent fruiting wire
- 2.65mm Growire: a high tensile wire ideally suited for catching or foliage support



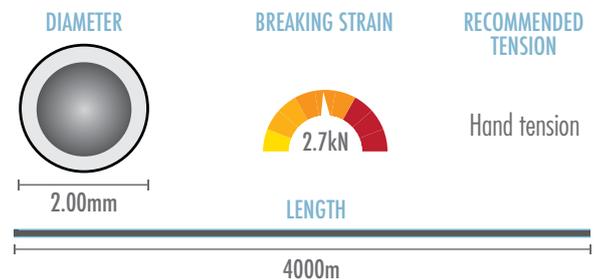
## GROWIRE LONGLIFE BLUE DRIPPER WIRE

- Medium tensile wire designed to support dripper lines on trellis rows
- Ideal for viticulture applications, apple trellis systems, hydroponic tables and growing tables



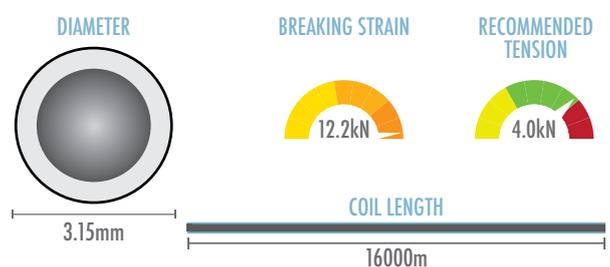
## GROWIRE ZALCOTE® TOMATO WIRE

- Ideal for trellising tomatoes
- Supplied on a metal reel, ideal for re-use and re-winding
- Zinc aluminium coating



## GALVANIZED TRELLIS WIRE

- Ideal for hop trellising and trellis pole systems
- Standard galvanized hard drawn wire
- 1 tonne stem





# TOOLS & ACCESSORIES

Waratah's market leading range of tools and accessories have been designed to complement your Waratah steel trellis system. The various accessories can streamline post installation, attaching wire, joining wire and much more. They can save time, money and reduce the need for heavy machinery and equipment.

- The Waratah tool range can make post installation, wire joining and tensioning quick and easy
- All Waratah accessories simplify the process of attaching wire to your trellis
- Reduce the risk of injuries by using the right tool for the job

Covered in this section:

**Trellising tools** | **Trellising accessories** | **Wire joiner range**



# ACCESSORIES | TRELLISING TOOLS

## THUMPA® PNEUMATIC POST DRIVER

- An easy way to drive Jio® Star®, Jio MaxY®, Blue Latch™ trellis and Gripfast® trellis posts into virtually any terrain faster than a manual driver, saving time and money
- Can also be attached to a mechanically assisted device on a vehicle to assist lifting the driver on and off posts
- Air compressor requirements: for light use ~25CFM, for heavy use >37CFM. Recommended pressure: 80–100PSI. Do not run above 100PSI
- Gripfast and Ezypipe® attachments available for easy installation
- Quick release guide enables Jio Star, Jio MaxY, Gripfast and Blue Latch trellis post to be driven into the ground
- Quick change guide system – insert the inner guide for Star posts and Gripfast trellis posts (Gripfast post guide required)



## EZYPIPE® STRAINER POST DRIVER

- Heavy duty 19kg strainer post driver
- Essential for manual installation
- Round profile to fit over an Ezypipe post
- Reinforced gusset handles for added strength
- Heavy duty construction with durable electro-galvanized finish



## STAR POST DRIVER 80NB

- A fast and easy way to manually install all Waratah posts, including Gripfast, Blue Latch trellis, Jio MaxY and Jio Star posts
- 9kg mass for optimum driving force and less effort
- Offset handles for ergonomic use and reinforced gusset handles for added strength
- Heavy duty construction with durable electro-galvanized finish





# ACCESSORIES | TRELLISING TOOLS

## WIRE SPINNER

### SINGLE WIRE SPINNER

- Safely spin out Growwire® without tangling or over running
- Cradle locks into place to prevent wire from tangling around the centre
- Fitted with a tension spring to prevent over running

### DOUBLE WIRE SPINNER

- Double cradle for simultaneous dual coil payout
- Safely spin out Growwire without tangling or over running
- Cradles locks into place to prevent wire from tangling around the centre spindle
- Fitted with a tension spring to prevent over running



## WIZARD® WIRE STRAINER

The Wizard Wire Strainer is the most efficient method for tensioning Growwire. The jaws are made from hardened steel which reduces wire slippage, cutting and marking on the wire.

### STANDARD WIZARD WIRE STRAINER

- Standard 1.8m chain with swivel

### CONTRACTOR WIZARD WIRE STRAINER

- Longer handle for 30% less effort and easier operation
- 4.5m chain for longer strains and larger diameter posts



## TENSER SENSER® WIRE TENSIONING GAUGE

- Indicates approximate wire tension to more accurately strain wire – which helps to prolong trellis life and reduce maintenance time and costs
- Pre-assembled and calibrated for immediate use



## WIRE CUTTERS AND PLIERS\*

- **Waratah wire cutters:** a powerful cutter with centric precision cutting edges, designed for use with all trellis wire types
- **Waratah pliers:** a combination plier designed for gripping surfaces particularly suited to flat material and medium-to-hard wire



\*Product covered by Bahco® guarantee. See Bahco website for details. ®Bahco is a registered trademark of SNA Europe, BP 20104 Eragny, 956 13 Cergy Pontoise, France.



# ACCESSORIES | TRELLISING ACCESSORIES

## TRELLIS CLIPS

- Can be fitted to most steel, plastic and timber posts
- Designed for fast and simple installation of line wires to steel or timber posts
- Manufactured from durable 1.2mm annealed spring steel and heavy galvanized for corrosive protection
- Attach with suitable screws that are ideal for your post. Screws not provided



## BARBED STAPLES

- Simple method to secure wire to timber posts
- Provides greater holding pressure
- Longlife Blue coating for maximum corrosion protection
- Available in wire diameters from 3.15mm to 5.00mm and in lengths 32mm, 40mm and 50mm
- Available in pack sizes 2.5kg, 5kg and 15 kg



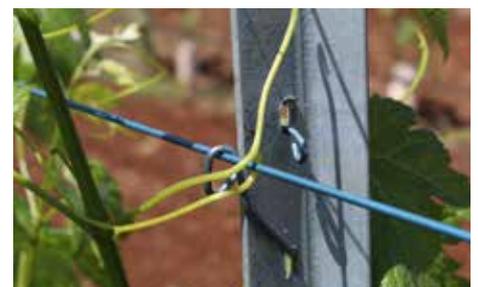
## CUT-LENGTH TIE WIRE

- Conveniently pre-cut 30cm straight wire lengths to save time with no sharp ends for safe use
- Ideal for securing trellis or dripper wires
- Available in packs of:
  - 2.50mm x 30cm lengths - Qty 1000
  - 3.15mm x 30cm lengths - Qty 650
- Made from Longlife Blue wire



## JiO® POST CLIPS

- Effectively secure trellis wires to Jio posts, up to 20% faster than traditional clips
- Quick and easy installation of your trellis or dripper wire to the Jio Star® or Jio MaxY® post
- Longlife coating for maximum corrosion protection





# ACCESSORIES | TRELLISING ACCESSORIES

## ANTI-SINK PLATES

- Increases the surface area of trellis posts to reduce posts sinking in soft or disturbed soils
- Designed to fit all Jio Star, Jio MaxY, Gripfast® and Blue Latch™ trellis posts
- Made from 1.40mm galvanized steel (275g/m<sup>2</sup>)



## ANCHOR-FAST® KIT

- Contains a 4mm x 5m heavy-galvanized wire rope and Gripple® Dynamic D4
- Can be used as a wire brace or tie-back in multiple strainer post assembly setups
- Simple, one-person assembly, no wire tying skills needed
- Up to 75% faster to install than traditional methods
- Re-tensioning capability makes this one of the most versatile products available for trellis installation and maintenance
- Max working load, 9.5kN
- Common installation of post is at a 70° angle to the ground



## 6MM WIRE ROPE

Waratah's 6mm wire rope is ideal for holding heavy netting structures. Netting structures are ideal to prevent fruit from hail damage or being pecked by birds that can harbor bacteria and fungal pathogens.

- Manufactured from standard galvanized wire to form 7x7 strand wire
- Maximum breaking load of 26.8kN
- Loop on one end for easy attachment
- Suitable for heavy duty applications that require greater holding capacity with more flexibility
- Can be used with Waratah Gripple Dynamic D6
- Ideally suited to bird and netting structures, and canopies





# ACCESSORIES | WIRE JOINER RANGE

## GRIPPLE® DYNAMIC D4 & D6

Ideal for anchoring high loads and structural bracing in various trellising designs including hops and protective netting.

- A simple and quick solution for securing cable
- Lockable, inbuilt cam lock to secure the cable and prevent slipping
- Ceramic rollers and stainless steel springs for optimum corrosion resistance against sprays and fertilisers
- Easily strained and tensioned with a Gripple tensioning tool
- Recommended for use in tie back solutions



### GRIPPLE DYNAMIC D4

- Suitable for use with 4.00mm galvanized wire rope

MAX WORKING LOAD



### GRIPPLE DYNAMIC D6

- Suitable for use with 6mm galvanized wire rope

MAX WORKING LOAD



## GRIPPLE PLUS®



- Simple and quick solution to joining wires, tensioning and terminating wire
- High corrosion resistance against environmental conditions as well as sprays and fertilisers
- Ceramic locking mechanism delivers a strong grip that holds heavy loads



### JUMBO GRIPPLE

- Designed specifically for use in viticulture
- Suitable for use with 2.50mm - 3.25mm wire

MAX WORKING LOAD



### GRIPPLE PLUS MEDIUM\*

- Suitable for use with 2.00mm wire
- \* Not recommended for high fruit yields

MAX WORKING LOAD





# ACCESSORIES | WIRE JOINER RANGE

## GRIPPLE CONTRACTOR TENSIONING TOOL

- Quick and easy method to tension wire with a Gripple
- Long handles provide a 10:1 mechanical advantage
- All-metal construction, combined with soft, moulded grips for comfortable and efficient use
- Quick release cam makes positioning on the wire easier



## GRIPPLE ONEWAY GP1™\*

Ideal for the fast termination of trellising wire or use with end posts in viticulture

- Join and tension wire
- Engineered with one channel to butt-up against an end post
- Working load of 400kg
- Integral safety channel to protect the tail wire
- Re-tension year-on-year with the Gripple tensioning tool
- Wire range from 1.80mm to 3.00mm

\* Not recommended for high fruit yields

MAX WORKING LOAD



## GRIPPLE C-CLIP™

An innovative, twist-on device for hanging anywhere along catenary wires.

- Allows horizontal and vertical adjustments on up to 6mm wire rope
- Cams lock solidly in place even at angles up to 60°





## GROUND ANCHOR

- Ready to use Ground Anchor – simply drive in, engage and instantly load
- Supplied with 4mm stainless steel wire rope (1.50m long) for maximum corrosion resistance
- Suitable for a variety of soils
- Combine with H-Post or Anchor-Fast® kit to create the complete anchoring solution
- No. 3 is suitable for medium loads with an anchor 120mm long x 40mm wide
- No. 4 is suitable for heavy loads with an anchor 180mm long x 70mm wide



A ground anchor is an excellent solution for trellis strainer situations. It can be used on either steel or timber strainers and can be installed to existing strainers that may have started to fail.



## GROUND ANCHOR DRIVE TOOL

- 1.75m installation tool for Terra-Lock anchor system and ground anchor
- Purpose engineered for toughness and durability, making it capable of penetrating the toughest soil
- Features specific head profiles to match anchors





# ACCESSORIES | WIRE JOINER RANGE

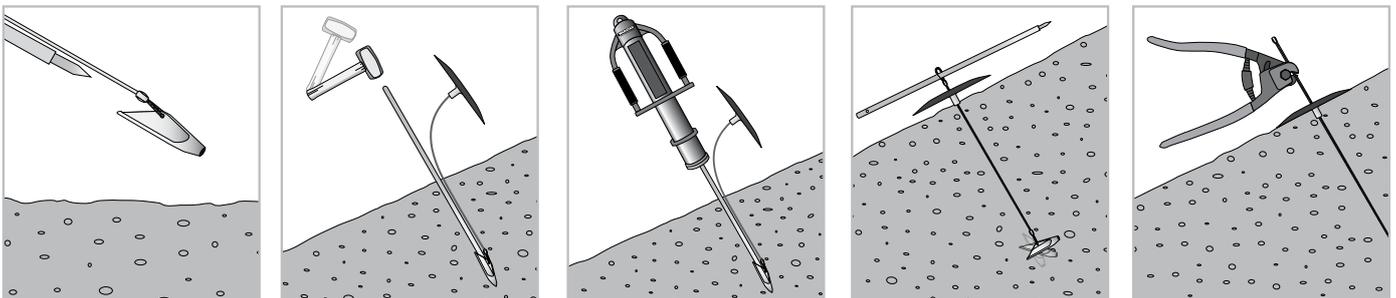
## EROSION PROTECTION

Soil erosion in viticulture is a prevalent issue that continues to challenge many property owners. The Terra-lock™ system offers a solution for erosion management and protection. The system has intimate contact with the underlying layer of soil which supports in minimising erosion and downstream sedimentation. It also allows slopes and embankments to be sharply angled, reducing groundworks and maximising use of space.

## TERRA-LOCK ANCHOR

Ideal solution to secure erosion control matting in waterways and rainfall catchment areas.

- Easily installed and instantly loaded anchor system
- Terra-Lock anchors are designed to provide drive efficiency and maximum load capacity across a wide range of applications including erosion control and soil stabilisation
- Supplied with 4mm stainless steel wire rope for in-ground strength
- Meets the requirements of the most demanding erosion control installations where increased performance characteristics are required over conventional pins, stakes and staples

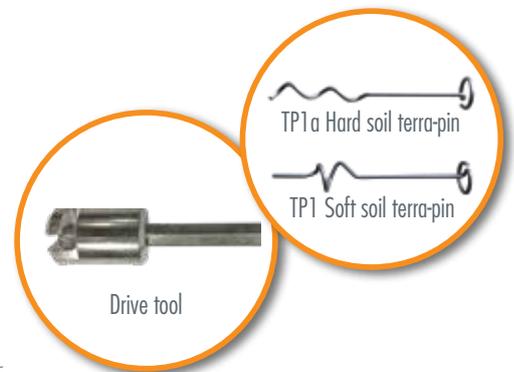


Terra-Lock anchor installation

## GRIPPLE® TERRA-PIN™ & DRIVE TOOL

Terra-Pins are high load ground anchoring pins designed to hold all types of turf reinforcement matting, erosion control blankets, geotextiles and landscape fabrics.

- Available in various sizes for different soil types
- Ensures close contact between the matting and soil
- Designed to eliminate damage to the mat
- Up to 10 times faster to install than traditional methods
- Ideal to secure matting to control run off in dams and during severe weather conditions





# PROTECT YOUR CROP

Kangaroos, deer and vermin continue to cause significant damage to vineyards. They not only eat crops, but carry diseases that can cause contamination to water storage facilities. Damage from these animals can have more than just a financial impact; the time and labour required to regain a healthy crop or treat contaminated water is extensive.

By installing a Waratah exclusion fence, it will significantly reduce yield loss, damage to crops and the risk of water contamination, leaving you with a healthy crop, year in, year out.

Benefits of exclusion fencing

- Reduces risk of water contamination
- Crops are protected against wild animals
- Peace of mind that your crop will not be destroyed

# EXCLUSION FENCING



## STOCKSAFE-T® 15/150/15 WITH APRON

The Waratah Stocksafe-T fence design may be used as an external boundary fence to prevent animals such as kangaroos and wallabies from penetrating the fence. For added height post extensions can be added to each post and strainer. For protection against animals burrowing under the fence Stocksafe-T is available with an apron which can be secured using the apron strainer extension.

## FENCE FEATURES

### Posts:

- Ezypipe® strainer post 3.25m
- Adjusta-stay®
- 225cm Blue Latch™ posts or 225cm Jio® Star® or Jio MaxY® posts

### Wire:

- Stocksafe-T 15/150/15 with apron
- 2.00mm Longlife Blue® high tensile barbed wire

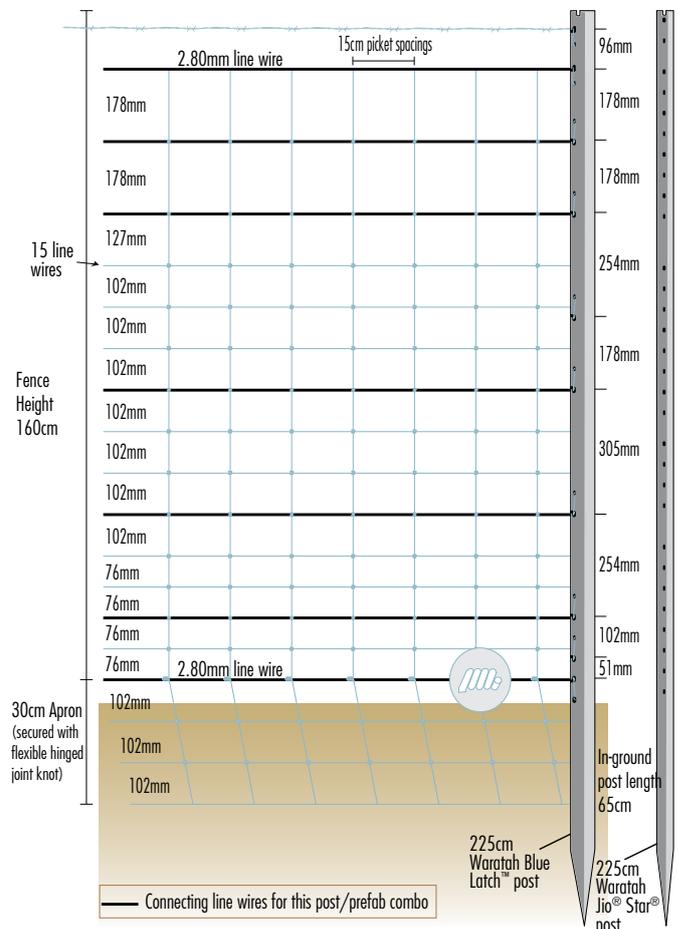
### Accessories:

- Gripple® T-clips
- Apron strainer extension

### Tools:

- Ezypipe strainer post driver
- Thumpa® pneumatic post driver
- Contractor Wizard® wire strainer
- Contractor Wedgelock® clamp
- Tenser Senser® wire tensioning gauge

\*Waratah have designed two latch posts; the Blue Latch trellis and the Blue Latch. The Blue Latch trellis is ideal for applications in trellis designs. The Blue Latch post mentioned above has different characteristics and is ideal for exclusion fencing.





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Available at:

Waratah fencing catalogue also available in print and online