

H AVERFORD



Established in 1888 and based in Sydney's Metropolitan area, Haverford Pty Ltd stocks Australia's largest range of netting sizes with over 125 years of trusted results and business experience.

We supply our Commercial Bird Netting products throughout Australia, New Zealand and The Pacific Islands. Utilising trusted Quatra Branded netting, Haverford has supplied its products to such major projects as:

- The Sydney 2000 Olympic Games Opening Ceremony
- Sydney Harbour Bridge
- Expo '88
- Sydney international Airport

Haverford is the chosen Commercial Bird Netting supplier to 40+ installers and resellers across Australia, continuing to provide the following benefits to our customers:

- Extensive stocks on hand in our Sydney Warehouse ensuring large project supply is quick and efficient
- Largest range of bundle sizes:
 - o Up to 2000Sq/Metre bundles (ensuring less joins)
 - o 19mm, 40mm, 50mm and 60mm Mesh Sizes for targeted species installations
 - o Black, Stone and White colours
 - o Revolutionary Stainless-Steel reinforced netting option
- Consistent quality associated with the Quatra brand of products. The Quatra brand is commonly tendered into Large Scale projects across Australia.
- A range of fixing accessories from eyelets through to Zipper entrances
- Competitive pricing and genuine service
- A designated Customization department with Overlocker and Twin-Needle stitching machines for all Custom Work
- Trading Accounts available for regular supply
- Option to provide Custom Fire Rated netting with Flame Retardant added

We welcome all enquiries, with no being job too small. Please feel free to view our comprehensive website, and download the relevant Product Data Specification Sheets as necessary.

The following document outlines common installation methods, however if you require a Measure / Quote / Installation service, please contact us for a recommendation in your area.

Please feel free to contact us with any other specific enquiries related to our netting or fixings.

93 Carrington St
Revesby NSW 2212
Ph: (02) 9771 5288
info@haverford.com.au
www.haverford.com.au

Square Mesh Bird Netting Installation Guide

This Installation Guide will focus on the most common method of Bird Netting Installation, involving attachment to perimeter & support wire guides. Each project is different, and your installation technique may vary based on the bird species, attachment surfaces, budget and installation experience.

Netting options

The first decision is to determine the appropriate netting to use. This guide is focusing on our range of "Square Mesh" products, as they have many advantages in this environment over traditional Diamond Mesh Orchard Nets.

• 6ply Heavy Duty Knotted 19mm Squares

o Information and advantages:

- The most commonly used variety of Bird Control Netting used by professionals in the pest control industry.
- Lightweight & Discreet whilst maintaining Commercial Grade Strength
- Economic option for large scale projects
- Huge range of Bundle Sizes (up to 2000Sq/M in one bundle)

o Targeted Species:

- Sparrow varieties and larger (Minor Birds, Pigeons, Seagulls etc)

• 9ply Heavy Duty Knotted 19mm Squares

o Information and advantages:

- A heavier grade of Bird Control Netting commonly used by professionals in the pest control industry as a competitive advantage over opposition utilising traditional 6ply netting.
- A very durable Commercial Grade Strength netting
- Commonly specified into tenders for large scale projects
- Huge range of Bundle Sizes (up to 500Sq/M in one bundle)

o Targeted Species:

- Sparrow varieties and larger (Minor Birds, Pigeons, Seagulls etc)



▪ Stainless Steel Reinforced 19mm Squares

o Information and advantages:

- Our premium range of Bird Control Netting commonly used by professionals in the pest control industry as a **competitive advantage** over opposition utilising traditional netting.
- An extremely durable Commercial Grade Strength netting used with aggressive bird species
- Commonly specified into tenders for large scale projects
- Huge range of Bundle Sizes (up to 500Sq/M in one bundle)

o Targeted Species:

- Added protection against Possums
- Sparrow varieties and larger (Aggressive Birds Species, Minor Birds, Pigeons, Seagulls etc)

Revolutionary blend of
netting & stainless steel



▪ 6ply Large Mesh 50mm Squares

o Information and advantages:

- A commonly used variety of Bird Control Netting used for larger species of birds
- Very Lightweight and Discreet
- Economic option for large scale projects
- Large range of Bundle Sizes (up to 400Sq/M in one bundle)

o Targeted Species:

- Larger non aggressive Species: Pigeons, Seagulls etc



Installing the Perimeter and Support Cable System

The most common method of attachment is utilising perimeter wires, which act as an attachment point for your netting. This preparation in terms of wire guides, anchor points and tension is the cornerstone of a professional and effective finished project.

Step 1:

To hold the wire in position (close to your perimeter surfaces), the first step is to install a series of Cable Eyelet Brackets. These eyelets hold the wire close to the surfaces, and allow the wire to travel around corners and conform to custom shapes.

- Our Multi Surface Eyelet Cable Brackets are our most popular option. They can be supplied in Bulk commercial quantities (without a screw), so the installer can use their screw of choice.
- Eyelet Cable brackets should be placed at minimum spacing of 500mm apart. Spacing greater than this amount will result in Net-Bowing between each bracket when the net is pulled tight (across to the opposing side)

Step 2:

The next step is to feed the wire through the brackets to create the perimeter and intermediate support.

- 1.8mm or 3mm Varieties available
- Maximum length of any individual run of wire approx. 20m



In the instance where there is no over-head attachment points, intermediate support cables should also be installed.

- Maximum lengths of bird netting with wire support should not exceed approximately 15metres.
- The wire rope is required to be tensioned to be effective.
- 5mm Turnbuckles for 1.8mm Wire / 6mm Turnbuckles for 3mm Wire

For terminating the wire at each end of an individual run, the wire is crimped into position. They are a quick, economical, neat and effective option that can be secured using our Crimping Pliers. The wire passes through the crimp, travels around the adjacent Eyelet and then returns back into the crimp for termination.

- 2mm Crimps for 1.8mm Wire / 3.3mm Crimps for 3mm Wire

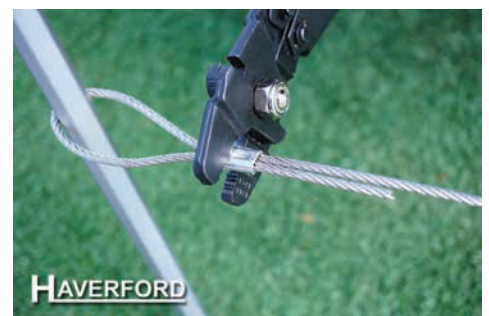
- Available in Copper or Aluminium



Multi Surface Eyelet/ Bracket



Turnbuckle



Aluminium crimps

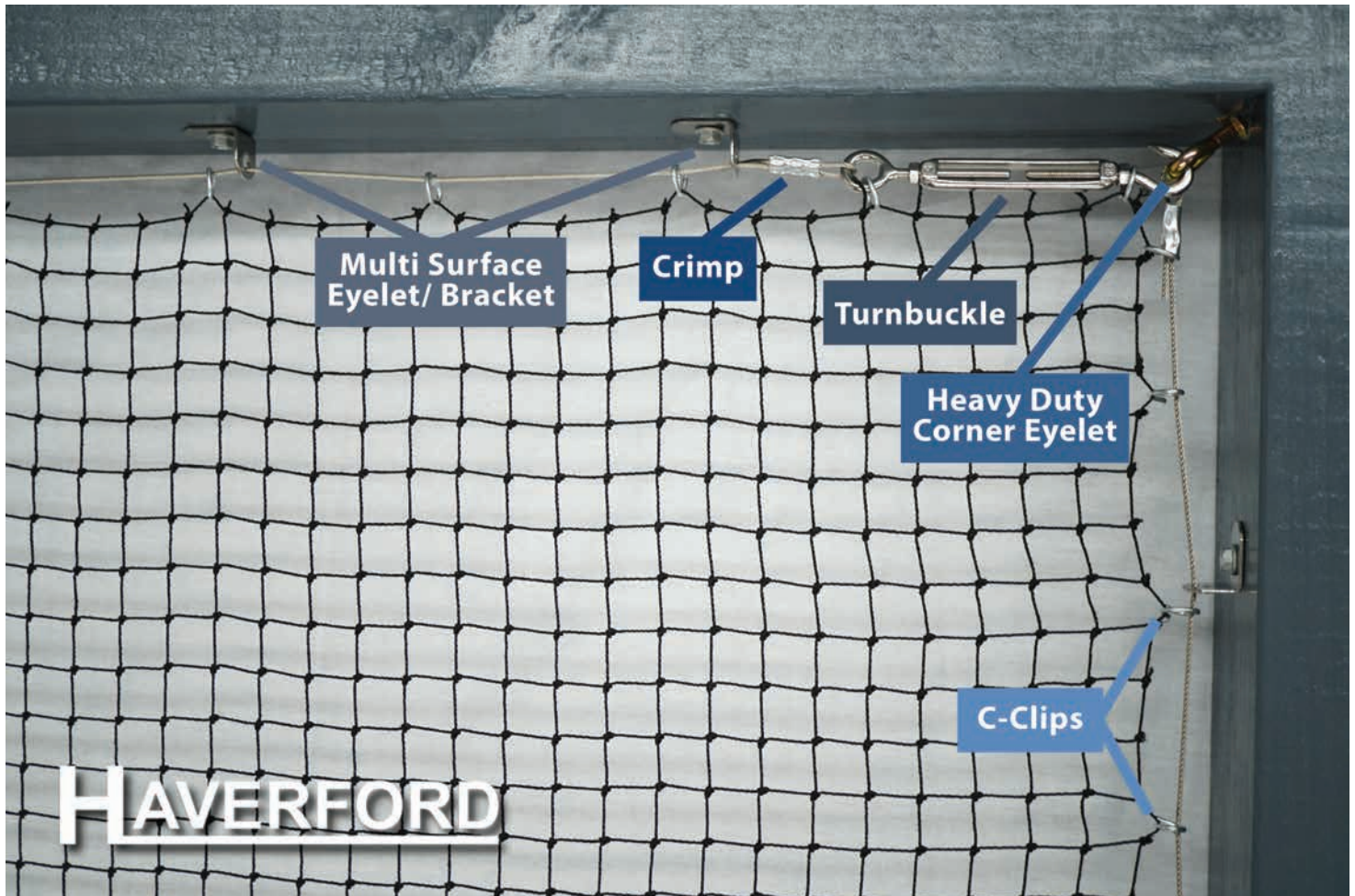


Copper & Aluminium crimps

Installing the Netting

Once you have a taught and secure wire framework in position, you can commence the process of attaching your netting. Your main objective in terms of installing your netting should always be:

- Install the netting as taught as practical, with sag and creases kept to a minimum where possible.
- No Gaps : Birds will give your netting installation a thorough inspection and look for any point of access at joins and around the perimeter... so beat them to the point and ensure all spaces are enclosed securely.



Joins:

A major advantage of our Quatra Bird Netting range, is the large number of bundle size options. With bundles up to 100m x 20m, we recommend opting for bundles that will require the least amount of joins. Joins are time consuming, create a visible line, and create a potential weak point in your installation. When unavoidable however, you have a few options to create a secure join:

- Option 1: Overlap the two nets that you wish to join by approximately 30cm. You can then use C-Clips / Hog Ring Staple to attach the two nets together securely.
- Option 2: Overlap the two nets that you wish to join by approximately 30cm, and then weave a rope/cord alternatively in and out of the two nets to create a rope join. A C-Clip>Hog Ring staple can be placed around the rope intermittently to stop the rope slipping in either direction. This process is more time consuming, however it does provide a very secure and neat finish with very minimal bowing effect .

Attachment:

The recommended attachment method is to use our C-Clips / Hog Ring method. There are 2 levels of installation device that can be used (based on your experience, budget and install frequency for professionals).

- Manual load and operated C-Clip System
 - Suitable for smaller and 1 off jobs
- Cartridge Loaded C-Clip System
 - Load a large quantity into the chamber and then install your rings at a much faster rate. This tool has a higher initial outlay in terms of cost, however results in significant time savings for medium, large and ongoing work using this method

Our standard ring supply is in Galvanised Steel. If you have a requirement for Stainless Steel please contact our staff.

Based on a need for efficiency, in commercial applications the netting is simply attached directly to the perimeter and support wires. In smaller, more critical or more precise installs, the netting can be edged using 5mm Black Rope prior to attachment. This process involves weaving a rope through the perimeter of the netting (creating a rope seam), which in turn provides a more substantial point of attachment. The clip is then placed over the rope and netting together, and joined to the cable.



Securing and Cutting around Obstructions

Often in the real world, obstructions including pipes and bulkheads will dictate the need for odd shape installations. No two installs are the same, so when negotiating an obstacle you may choose to use it to your advantage (as an attachment point itself using cord or cable ties). More commonly however, this is when the flexibility of the "Wire-Rope" cabling system is pronounced, as the wire can navigate around the obstacles.

The most common method of cutting your netting around "narrow" pipes and obstacles is to use the "slitting method". As opposed to measuring precisely the dimensions of the obstacle and pre-cutting exactly, it is recommended to simply cut a slit in the netting, and then slide the netting on both sides of the obstacle and then pull the netting tight to fasten.

Cut with excess

When cutting your netting to fit specific areas, it is always recommended to cut with allowable excess, and then simply trim to fit whilst attaching. This is much preferred to coming up slightly short and having to create a small join.

Zippers

Access to commercial lighting and other utilities is a common aspect of a netting installation project. Our range of Zippers provide the most economical and effective method of creating a reusable access point. We offer a range of Zipper products including:

- Bulk 100m Reels / Sliders
- Premade (closed end) Zippers in varied lengths
- Large L-Shaped premade Zipper Panels
- Quick to install "Easy-Fit" Zipper panels



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