



Tradia Steel (Pty) Ltd.

Reg no. 2017/269678/07

Level 2 B-BBEE

**HIGH SECURITY
WELD MESH**

www.tradiasteel.co.za

➤ WHAT IS HIGH SECURITY WELD MESH?

High Security Weld Mesh is wire fused & welded with Aperture size of Horizontal distance of 12,7 mm (1/2 inch) and vertical distance of 76,2 mm (3 inch) also known as 358/3510 where 3 denotes 3" (distance between horizontal wires) and 8 or 10 denotes diameter of the wire in Gauge.

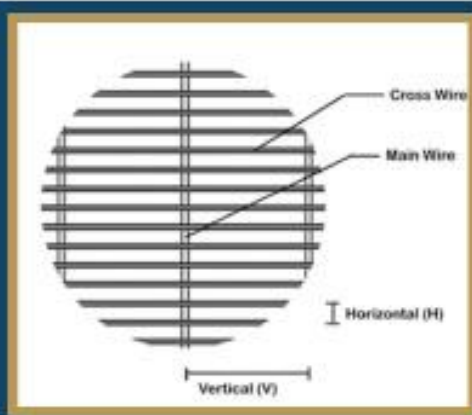


Benefits

- Difficult to climb: The space between the horizontal wires are too narrow for the fingers to have a grip.
- Impregnable: Extremely difficult to cut with a hand cutter as the 'beak' of the wire cutter will not be able to penetrate the horizontal wires.
- Excellent replacement option to solid wall as it is faster to install, more economical and CCTV camera has clear sight.
- Further upgrade possible with electronic security system.
- Anti-corrosive
- Low maintenance

➤ PANELS

- All panels are made from pre-galvanised High Tensile wires (500 MPa+).
- The wires are all heavy galvanised ("H Galv.") with an average Zinc
- Mass of 310 GSM (g/m²).
- Each panel contains 4 "V" bends on the main wires to ensure rigidity, with a top and bottom 45-degree bend for added security.
- Panels can be Hot Dipped Galvanised AFTER Weld if required, resulting in a coating of 110 Micron or 600-700 GSM (g/m²)
- Polyester Powder (PPC) or Plascoat (PVC) can be added as a coating to the Galvanised panels in various colours.

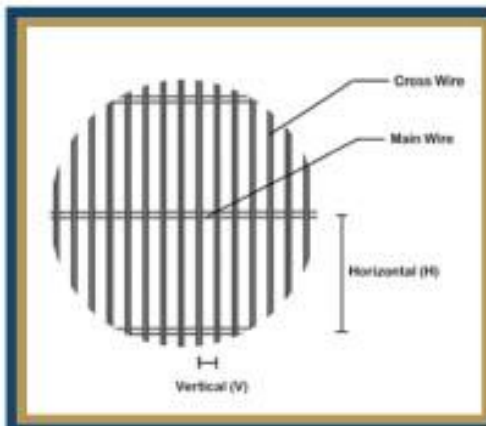


HORIZONTAL APERTURE

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FENCE RANGE Horizontal (H)	APERTURE Vertical Wire (V) x Horizontal Wire (H)	WIRE ARRANGEMENTS Main Wire (M) (Horizon) x Cross Wire (C) (Vert)	SHEET SIZE (m) Height (H) x Width (W)
Double Max A (H)	76.2mm (V) x 12.7mm (H)	5.6mm double every 2nd strand (M) x 4mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
Double Max B (H)	76.2mm (V) x 12.7mm (H)	5.6mm double every 2nd strand (M) x 3mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
Maximum A (H)	76.2mm (V) x 12.7mm (H)	5.6mm (M) x 4mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
Maximum B (H)	76.2mm (V) x 12.7mm (H)	5.6mm (M) x 3mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
High Secure A (H)	76.2mm (V) x 12.7mm (H)	4mm (M) x 3mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
High Secure B (H)	76.2mm (V) x 12.7mm (H)	3mm (M) x 3mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
Medium Sec A (H)	76.2mm (V) x 25 mm (H)	4mm (M) x 3mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
Medium Sec B (H)	76.2mm (V) x 25 mm (H)	3mm (M) x 3mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)
Perimeter 2 (H)	100mm (V) x 50mm (H)	4mm (M) x 4mm (C)	1.8/2.1/2.4/3.0/3.6m (H) x 2.5/2.625m (W)





VERTICAL APERTURE

VERTICAL APERTURE

Fence Range Vertical (V)	APERTURE Vertical Wire (V) x Horizontal Wire (H)	WIRE ARRANGEMENTS Main Wire (M) (Horizon) x Cross Wire (C) (Vert)	SHEET SIZE (m) Height (H) x Width (W)
Double Max A (V)	12.7mm (V) x 76.2mm (H)	5.6mm, with double every 2 nd strand (M) x 4mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Double Max B (V)	12.7mm (V) x 76.2mm (H)	5.6mm, with double every 2 nd strand (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Maximum A (V)	12.7mm (V) x 76.2mm (H)	5.6mm (M) x 4mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Maximum B (V)	12.7mm (V) x 76.2mm (H)	5.6mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Super Sec A (V)	12.7mm (V) x 76.2mm (H)	4mm (M) x 4mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
High Secure A (V)	12.7mm (V) x 76.2mm (H)	4mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
High Secure B (V)	12.7mm (V) x 76.2mm (H)	3mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Medium Sec A (V)	25mm (V) x 76.2 mm (H)	4mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Medium Sec B (V)	25mm (V) x 76.2 mm (H)	3mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Economical A (V)	50mm (V) x 76.2mm (H)	4mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Economical B (V)	50mm (V) x 76.2mm (H)	3mm (M) x 3mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Perimeter 1 (V)	50mm (V) x 100mm (H)	4mm (M) x 4mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)
Perimeter 2 (V)	50mm (V) x 200mm (H)	4mm (M) x 4mm (C)	1.8 / 2.1 / 2.4m (H) x 2.625 / 3m (W)

Colours: There are 15 different colours available in PVC and more than 150 in PPC.

UNDERDIG

To prevent animals / intruders gaining access underneath the fence, the following options are available:

- A Concrete trench below the fence panels. Trench can be 300-600mm deep and 300-450mm wide.
- Razor Mesh Flat Wrap can be installed in a trench between the post foundations.
- A loose Welded Mesh Panel, similar to the fence panel, can be fixed to the fence panels underneath the fence in the trench, which will then be covered with soil.

➤ UNDERDIG PANELS

APERTURE	WIRE ARRANGEMENTS	SHEET SIZE (m)
Vertical Wire (V) x Horizontal Wire (H) (mm)	Main Wire (M) (Horizon) x Cross Wire (C) (mm)	Height (H) x Width (W) (mm)
12x76 / 25x76 / 50x76 / 50x100 / 76x12	3x3 / 3x4 / 4x4 / 3x5.6 / 4x5.6	300 / 350 / 400 / 450 / 500 / 600 / 750mm (Deep) x 2500 / 2625 / 3000 Wide

Coatings:

The under-dig panels are all Heavy galvanised (Class A). Alternative Coatings can be Hot Dipped Galvanised, Powder Coated (PPC), Plascoat (PVC) or Bitumen Coated.

➤ EXTRAS ON TOP OF FENCE

The following options are available on top of the fence:

- Spikes / multi-spikes
- Electrical wires can be added on extended posts
- Razor Concertina Coil wires / Flat Wrap Razor wires can be added on top of fence
- Alarm wires / beams
- CCTV Cameras

➤ POSTS

SQUARE TUBE POST



WELDED
RECTANGULAR
/SQUARE HOLLOW
SECTION POSTS
76 X 76 X 2.0mm
100 x 100 x 2mm

U-POST



Rolled U-Post
95x60x1.6mm

T-POST



Rolled T-Post
101 x 60 x 2mm

IPE POST



HOT ROLLED
I BEAM POSTS
100mm X 50mm
76mm X 44mm

- Option of Square Tube Post, U-Post, T-Post or IPE Post (I-Beam)
- Firm Square Tube Posts allow for panel installation to the front (front fixing), side (side fixing) or back (back fixing) of the post. Post sealed and capped.
- Rigid I-Beam Posts and T-Posts enhance security by disallowing access to concealed fixators.
- Posts are all Hot Dipped Galvanised.
- Base plate can be added to posts.
- Posts can be extended for added security in form of Electrical Wires, Razor Coil, Flat Wrap, Alarm or CCTV
- Fence panels to be connected either on front/back of posts, or on side of posts.
- Polyester Powder (PPC) or Plascoat (PVC) can be added as coating to the posts.

Post Options Recommended:

- Hot Dipped Galvanised, Square Tube Post (76mm x 76mm x 1.6mm)
- Hot Dipped Galvanised, Square Tube Post (76mm x 76mm x 2mm)
- Hot Dipped Galvanised, Square Tube Post (100mm x 100mm x 2mm)
- Hot Dipped Galvanised, Pre-Drilled IPE Post (76mm x 44mmx4mm)
- Hot Dipped Galvanised, Pre-Drilled IPE Post (100mm x 55mmx4mm)

➤ MISCELLANEOUS

PLAIN SHEAR-OFF NUTS & BOLTS

This system is used for application to the IPE posts and prevents subsequent removal by its shear off ability. Available in galvanised and stainless steel.



STAINLESS STEEL NUTS & BOLTS

These Stainless-Steel shear-off nuts and bolts provide more durability and provide a rust-free product.



STANDARD FIXATORS

Our uniquely designed fixating solution ensures maximum wire contact is achieved at all times, providing customers with a strong reliable and secure barrier solution that protects their property.



MAXI FIXATORS

These fixators are made of heavy duty Aluminium and are cut to precision to minimise any tampering.



ANTI-TAMPER SCREWS

Anti-tamper screws are available as selfdrillers (in galvanised or stainless steel) as part of a rivet solution and used with Square Tube posts during installing.



MULTI & MAXI SPIKES

Our exceptionally designed spiking mechanisms can be secured to any of our fences offering additional security to your property.



➤ COMPLIANCES

Our mesh has a proven track record, contribute to a safe operating environment and manufactured to the highest local and global quality standards, such as:

- ISO 9001:2008
- ISO 14001:2004
- OHSAS 18001:2007

➤ GALVANISATION

- LIGHTLY GALVANISED - 60 GSM (gram per m²)
- HIGHLY GALVANISED - 90 GSM (gram per m²)
- HOT DIPPED GALVANISED (IF APPLIED AFTER WELDING) 110 MICRON / 600 - 700 GSM

➤ POWDER COATING COMPLIANCES

- Gloss (60 Deg. Head): ASTM D 523-89
- Adhesion (Cross Hatch): ASTM D 3359-97
- Scratch hardness: ASTM D 1474-92
- Flexibility (Conical Mandrel): ASTM D 522-93A
- Erichsen Cupping: ASTM 643-84
- Impact (direct/indirect): ASTM D 2794
- Humidity Chamber: ASTM D 2247
- Xenon Arc Weathering: SAE J2527
- 12 months Florida: AAMA 2603.02, 6.8

➤ CONTACT US FOR MORE INFORMATION

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