

Protecta Panels™

highly visible temporary fencing system

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- || TEMPORARY FENCING OF EXCAVATIONS
- || TEMPORARY GATES
- || TEMPORARY FENCING ON WORK SITES
- || PEDESTRIAN BARRICADES
- || HAZARD WARNINGS
- || DELINEATORS FOR CROWD CONTROL
- || TRAFFIC AND PARKING CONTROL
- || EROSION CONTROL



PROTECTA PANELS™ can be **CONFIGURED** as temporary fencing and **RECONFIGURED** and **RE-USED** as required.

Most effective and highly visible rigid barrier panels!

Protecta Panels™ provide effective pedestrian safety on work sites and effective worker and work area containment. Numerous configurations can be achieved by one person using the light weight components – from simple four-panel square or rectangular enclosures to more complex layouts.

Protecta Panels™

Protecta Panels™ Benefits

- Consists of robust prefabricated wire mesh panels
- Panels are shrink-wrapped on both sides with polyethylene film
- Panel wire mesh is galvanised, poly film is UV-stabilised
- Panels are formed with top and bottom flanges
- Panels are approximately 1070 mm high
- Panels can be lapped approximately 50 mm at junctions, a star picket is passed through the lapped mesh at each junction and driven into the ground
- Panels are available in lengths of 2250 mm, 1500 mm and 1050 mm
- Panels are fitted with protective PVC capping
- Panels are banded with yellow and black reflective adhesive tape

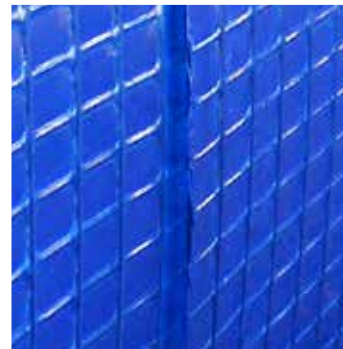


Protecta Panels™ easily adapt to any surface area, fitting tightly to the contours of the space provided



Protecta Panels™ Options

- Labour to erect and dismantle barriers based on your requirements
- Supplied with 1650 mm long heavy-duty star pickets
- Base plate system for hardstand positioning
- Shorter pickets (1250 mm) – compatible with base plate
- Gate and gate posts
- Picket driver
- Protecta Panels™ come in a range of colours to suit your branding needs
- ReoSok® protection caps supplied for each star picket
- ReoSok® retainer and cable tie pin supplied for each star picket



Protecta Panels™ Accessories

Post base plate for free standing barriers

A formed base plate 410 x 250 mm can be provided for erection of Protecta Panels™ on hardstand, together with a short picket 1250 mm in length. It is also recommended that a 300 mm nylon cable tie be used to attach the panel to the picket at mid-height to enhance the rigidity of the barrier system.

The 2 mm steel base plates have a sleeve at the centre, and 2 x 10 mm holes centred on the 250 mm side (25 mm from edge) This is for concrete fasteners or pinning the Protecta Panels™ to the ground. The post base plate weighs 4.7 kg.

Base plates can be secured by three methods:

1. Concrete bolt 8 mm – or similar
2. Anchor screw 8 x 100 mm (for bitumen)
3. Sandbags – apply one each side on base plate

Gates and gate posts (for hard stand only)

Gates are available in two sizes:

1. 1050 mm wide x 1070 mm high or
2. 2250 mm x 1070 mm

Transverse panel bracing (wind brace)

Application of bracing is every third panel. The short panel sections are 300 mm wide and are designed to be installed transversely to the run of fencing, at the joint between two panels.

Protecta Panels™ parts and shipping weight

A standard package of Protecta Panels™ includes 42 panels with approximately 99 m run of barrier as well as star pickets, ReoSok® caps, retainers and latching pins comes on a 2.4 m long timber pallet. The shipping weight of this package is 430 kg and the dimensions are 2250 mm x 1200 mm x 1050 mm high.



Temporary gate panel can be added or removed easily (hardstand only)



Optional base plate



Close up of gate post

Star pickets

Part Number	Length (mm)	Weight (kg)
SP1650	1650	3.6
SP1250	1250	3.96

Protecta Panels™

Part Number	Length (mm)	Height (mm)	Weight (kg)
PP2250	2250	1070	7.8
PP1500	1500	1070	5.0
PP1050	1050	1070	3.6

Protecta Panels™

Installation for grassed or bare soil areas

1. Check for underground services.
2. Visualise where Protecta Panels™ barrier will be placed.
3. Run a string line from point A to point B.
4. Lay panels out along line.
5. Stand the first panel at left-hand end of the line.
6. Ensure the flanges of the panel face away from you and the DANSEA sticker is positioned to the right (Fig. 2). The panels are folded with the left-hand end slightly narrower than the right-hand end so the larger end can overlap the narrower end.
7. Place a 1650 mm long star picket (Fig. 3) through the cuts in the top and bottom flanges on the left-hand end of the panel, with holes in picket furthest away from you.
8. Starting panel - drive picket into ground until second hole from top of picket is approximately 50 mm above the top flange (Fig. 4).
9. Stand the second panel and place its narrower end into the wider end of the first panel overlapping the second panel by 50 mm (Fig. 5).
10. Place a second star picket through the cuts in the overlapped flanges of the first and second panels, and drive picket into ground – same as step 9.
11. Repeat steps 10 and 11 until all panels have been erected.
12. Place a ReoSok® (Fig. 6) on top of each picket (Optional).
13. Place ReoSok® cable tie retainer (Fig. 7) over ReoSok® (Optional).
14. At each picket, lift panels approximately 50 mm so retainer passes through cuts in top flanges.
15. Line up holes in retainer with second hole from the top of the picket, and place cable tie through all three holes (Fig. 8). Bottom of barrier will be approximately 50 mm off ground.

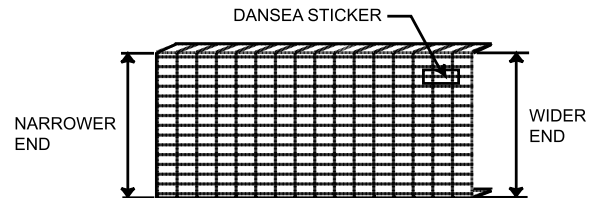


FIG. 1

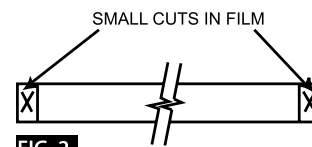


FIG. 2

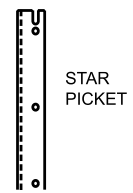


FIG. 3

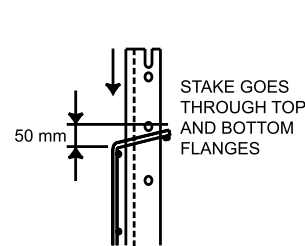


FIG. 4

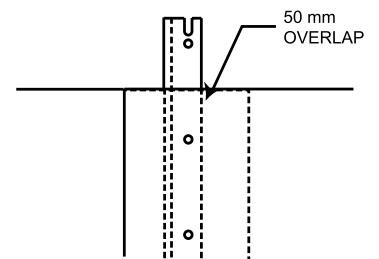


FIG. 5



Installation on hardstands

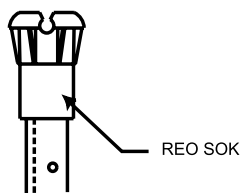


FIG. 6

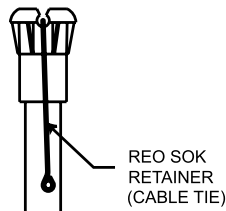


FIG. 7

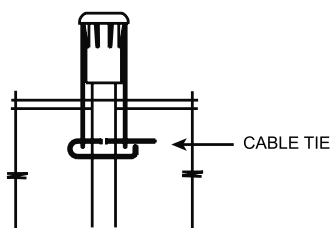


FIG. 8

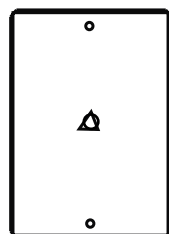


FIG. 9

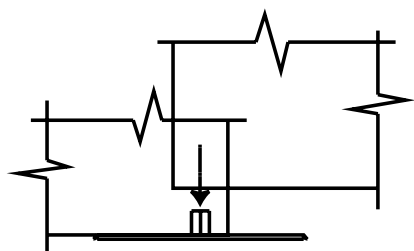


FIG. 10

Follow steps 1 to 5 as before.

8. Place a base plate on the hardstand at the location of the first picket

9. Stand the first panel and place the cut in the left-hand end of the bottom flange over the sleeve on the base plate, then press down so the flange encloses the sleeve (Fig 10). Pass a short picket (1250 mm) through the top flange and into the round sleeve.

Follow steps 10 to 15 as before, using base plates and short pickets instead of driving the pickets into ground.

17. Base plates may be held down using sand bags, or by anchoring them to the hardstand with pins or concrete anchors. Ensure that the base plate is attached to the panel before the panel is erected.



Retention of panel to star picket with cable tie



Protecta Panels™

Protecta Panels™ anchorage during strong wind events

When a strong wind event is predicted, the user of Protecta Panels™ should take steps to either:

1. Ensure the anchoring of the system is adequate, or
2. Provide adequate supplementary anchorages, or
3. Demolish the fence

The user may wish to consult a Structural Engineer who should be able to provide assistance.

Primary anchorage

The primary supports for Protecta Panels™ are 1650 mm long star pickets driven into the ground approximately 400 mm. The performance of the pickets in resisting wind load will be wholly dependant on the capability of the soil to absorb the load. Because there are so many different soil conditions, it is difficult to quantify the ability of star pickets to resist wind loads for all soil conditions.

It is reasonable to expect that star pickets will be adequate when used in soils such as reasonably compacted sandy loam, and those of denser consistency. It would be doubtful that dry loose sand, other loose friable soils or saturated swampy soils will provide adequate anchorage during high wind load events.



As the recent weather carved a trail of destruction across South East Queensland DANSEA Protecta Panels™ stood steady



Protecta Panels™ with transverse panel bracing, anchored with sand bags

Optional anchorage

For hardstands, a shorter star picket and base plate is offered as an option. The base plates are 410 mm deep, with 2 holes 10 mm diameter 25 mm from the front and back edges. A number of base plate fixing options can be used:

1. Base plate secured to concrete hardstand with two 8 mm x 50 mm drilled in anchors
2. Base plate secured to bitumen hardstand with two 8 mm x 100 mm masonry style anchors
3. Base plates secured to bitumen or hard compacted soil with two 8 mm x 300 mm pins
4. Sand bags placed on the base plate
5. Base plate not secured to the ground

For options 2 and 3, it is not possible to quantify the anchorage resistance, because of the innumerable variables involved.

For option 4, analysis indicates that a base plate with a 30 kg sand bag placed on the front edge and another 30 kg sand bag placed on the back edge will provide resistance to loads from wind at speeds up to 17 m/sec [approximately 60 km/hr].

Option 5 will provide minimal or no resistance to high wind loads. The user of the product should dismantle the fence prior to a high wind event.



Apply cable tie through lapped section around picket for added strength.

Statutory requirements

Protecta Panels™ may be considered as devices conforming to the requirements specified in Section 3.10.1 Containment Fences of Australian Standard AS 1742.3 – 2002 *Manual of uniform traffic control devices, Part 3: Traffic control devices for works on roads*. They should be used in accordance with Section 4.3 Maintaining a Safe Workplace of AS 1742.3 – 2002.

Protecta Panels™ are NOT safety barriers, as defined in Sections 1.4.11 and 3.10.2 of AS 1742.3. Protecta Panels™ are not intended to arrest an impacting vehicle and are not intended to be a barrier system as described in AS / NZS 3845 – 1999 Road safety barrier systems.

Protecta Panels™ may be used in situations additional to road works, however, the proper use and conformance to statutory requirements is the responsibility of the user.

Restraint of Protecta Panels™ components

Protecta Panels™ would offer minimal resistance or retardation to an impacting vehicle. When properly installed, the star pickets used with Protecta Panels™ are restrained within the steel mesh flanges of the panels [and to the optional base plates]. In the event of impact from a vehicle at low speed [say, up to 40 km/hr], there is little likelihood that the star picket will become disengaged and present the same hazard as an individual picket.



Damaged panels after impact from vehicle

Protecta Panels™ *highly visible temporary fencing system*



Typical application on soft surface



Application on hardstand



Branded Protecta-Panels™ at the Gold Coast University Hospital project for Bovis Lend Lease

Distributed by:

DANSEA
Construction Products

DANSEA Construction Products

16 Industrial Avenue, Molendinar
QLD 4214, Australia

Phone: (07) 5527 8504 | **Fax:** (07) 5564 5395

International: +61 7 5527 8504

Email: admin@dansea.com.au

WWW.DANSEA.COM.AU