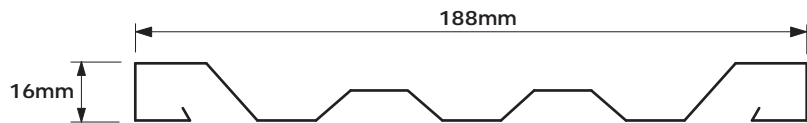


VERTICAL CYCLONIC STYLELINE® FENCING

Full Shielding Option

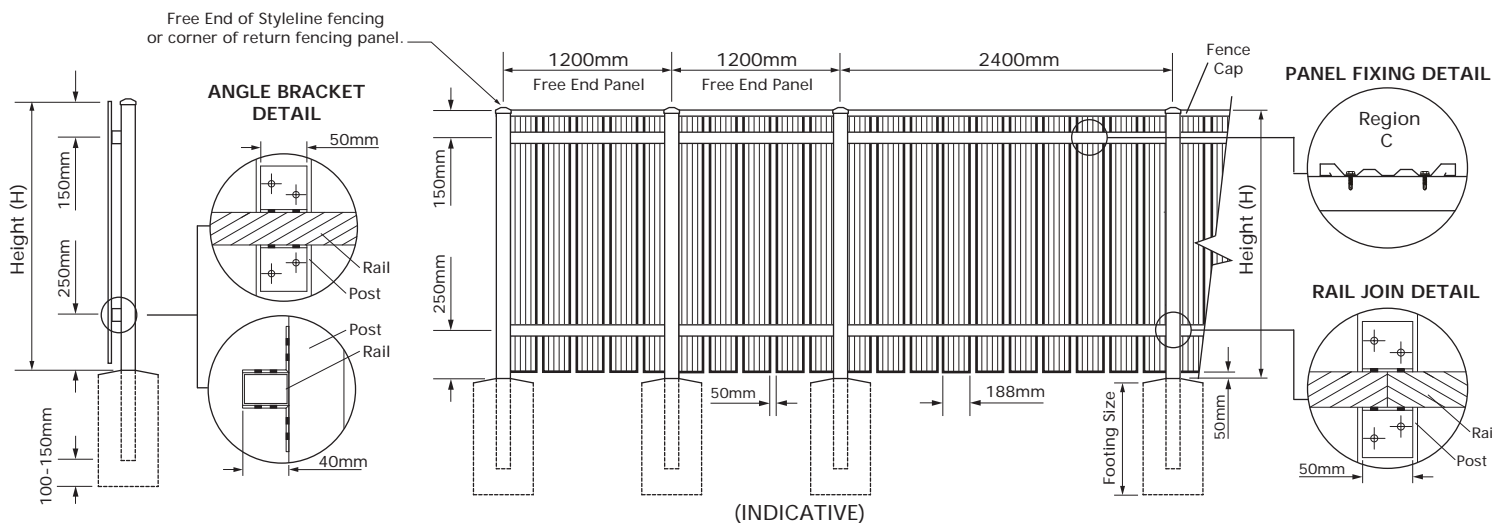


Post Requirements (mm)			
Terrain Category	Post Height	Post Type	Rail Type
1.0	900	50x50x3.0	40x40x1.6
	1200	65x65x2.5	40x40x1.6
	1500	75x75x3.0	40x40x2.0
	1800	100x100x2.5	40x40x2.0
2.0	900	50x50x2.0	40x40x1.6
	1200	65x65x2.0	40x40x1.6
	1500	75x75x2.5	40x40x1.6
	1800	75x75x3.0	40x40x1.6
2.5	900	50x50x2.0	40x40x1.6
	1200	65x65x2.0	40x40x1.6
	1500	65x65x3.0	40x40x1.6
	1800	75x75x3.0	40x40x1.6
3.0	900	50x50x1.6	40x40x1.6
	1200	50x50x3.0	40x40x1.6
	1500	65x65x2.5	40x40x1.6
	1800	65x65x3.0	40x40x1.6

Circular Footing Sizes (mm)					
Terrain Category	Soil Type	Fence Height			
		900	1200	1500	1800
1.0	Sandy Clay	300x750	300x950	300x1200	300x1250
	Clay	300x600	300x600	300x800	300x900
2.0	Sandy Clay	300x700	300x850	300x1100	300x1150
	Clay	300x600	300x600	300x750	300x850
2.5	Sandy Clay	300x650	300x800	300x1050	300x1100
	Clay	300x600	300x600	300x700	300x750
3.0	Sandy Clay	300x650	300x750	300x900	300x950
	Clay	300x600	300x600	300x600	300x650

Fixing Details

1. Panels pan fixed with two class four, minimum 12x20mm self drilling screws at each support rail.
2. Support rails to be fixed to posts via pre-drilled 40x40x3.0mm angle brackets.
3. Angle bracket attached to post using two class four, minimum 12x20mm self drilling screws.
4. Support rails fixed to angle brackets with two class four, minimum 12x20mm self drilling screws.
5. Support rails may also be welded to posts with 3mm continuous fillet welds (minimum 50mm weld length), top and bottom.
6. Secure fence cap to panels with one 3mm rivet per panel.
7. The base of fence posts (not powder-coat finished) embedded in concrete shall be protective coated in accordance with NCC2022.



(INDICATIVE)

Notes covering basis of DTC (Relevant test reports etc)

Design Criteria determined in accordance with AS/NZS1170.2:2021 Wind Actions.

Footing Specifications:

1. Footings shall be founded in natural soil only with minimum 250kPa ultimate foundation bearing capacity. Fence installer shall seek additional engineering advice for soil conditions outside of those specified.
2. Concrete to be minimum N20 grade with top of footings shaped to direct water away from posts.

Checking Engineer

Name: Glenn Turner
Registration Number: NER 3823731
Date: 18/03/2025
Signature:

Must be an Australian registered structural engineer

Certifying Engineer

Name: Matthew Mammone
NT Registration Number: 243890ES
Date: 24/03/2025
Signature:

Must be a registered structural engineer in the Northern Territory

Product Name ®

Vertical Styleline Fencing - Full Shielding Option

Product Description

Vertical Styleline Fencing - (Full Shielding Option) panels manufactured from 0.42mm BMT G550 steel, minimum AM100 coating (pre-painted), and minimum AM125 coating (unpainted).

Manufacturer's Details

Stratco (Australia) Pty Ltd

780 Stuart Highway, Berrimah NT 0828. ABN 30 007 528 850

Design Criteria

The following criteria was used in the development of the tables:

1. Region C with an annual probability of exceedence of 1:200
2. $V_r = F_c$ 61m/s (limit state), with $M_c = 1.05$
3. Importance Level I
4. $M_s = 0.85$, $M_t = 1.0$, $M_d = 1.0$ for cladding and track design
 $M_d = 0.9$ for post and footing design

 $M_{z,cat}(1.0) = 0.97$ $M_{z,cat}(2.0) = 0.91$ $M_{z,cat}(2.5) = 0.87$ $M_{z,cat}(3.0) = 0.83$

Refer AS/NZS 1170.2:2021 Structural design actions Part 2: Wind Actions for definition of terrain categories.

Definition of full shielding for domestic applications from AS4055-2021, alternatively, shielding multiplier, M_s , calculated from AS/NZS1170.2:2021.

Pressure Coefficients:

C_p (max) = +1.2 for general fence area
= +2.4 for a distance of 2H from free ends

Limitations

1. All SHS posts and rails minimum C350, galvanised in accordance with AS/NZS 4792:2006, brackets minimum G300, Z275.
2. Minimum 50mm spacing between each vertical panel and between the base of panels and ground level.
3. Bottom rail positioned maximum 250mm from ground level. Top rail positioned to give maximum 150mm panel overhang.
4. Fencing rails shall be continuous over a minimum of two spans. Any required rail joins to occur at post locations.
5. Maximum post spacing 2400mm. Maximum post spacing at free ends, 1200mm.
6. A free end is defined as an end which does not form part of a corner and does not butt up against a solid structure. The length of a free end shall be equal to 2x the fence height, e.g.
 - a) For a 900mm high fence, the length of a free end is 1800mm (i.e. 8 sheets)
 - b) For a 1200mm high fence, the length of a free end is 2400mm (i.e. 11 sheets)
 - c) For a 1500mm high fence, the length of a free end is 3000mm (i.e. 13 sheets)
 - d) For a 1800mm high fence, the length of a free end is 3600mm (i.e. 16 sheets)

Accepted for inclusion in Deemed to Comply Manual

SHEET
1 OF 1

DTCM drawing number: M/387/01

Chairperson Signature:

Chairperson Name: Dr Elisha Harris

Date of Approval: 3/4/2025 Expiry Date: 3/4/2030