## NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas

# VERTICAL CYCLONIC STYLELINE® FENCING **No Shielding Option**

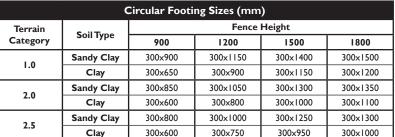


Post Requirements (mm)						
Terrain Category	Post Height	Post Type	Rail Type			
1.0	900	65×65×2.0	40×40×1.6			
	1200	65×65×3.0	40×40×2.0			
	1500	100×100×2.5	40×40×3.0			
	1800	100×100×3.0	50×50×2.0			
2.0	900	50x50x3.0	40x40x1.6			
	1200	65×65×2.5	40x40x1.6			
	1500	100×100×2.5	40×40×3.0			
	1800	100×100×3.0	40×40×3.0			
2.5	900	50x50x3.0	40x40x1.6			
	1200	65×65×2.5	40x40x1.6			
	1500	75×75×3.0	40×40×2.0			
	1800	100×100×2.5	40×40×2.0			
3.0	900	50×50×2.0	40x40x1.6			
	1200	65×65×2.0	40×40×1.6			
	1500	65×65×3.0	40×40×2.0			
	1800	75×75×3.0	40×40×2.0			

Terrain		Circular Footing Sizes (mm)							
1	Soil Type	Fence Height							
Category		900	1200	1500	1800				
1.0 S	Sandy Clay	300×900	300×1150	300×1400	300×1500				
1.0	Clay	300×650	300×900	300×1150	300×1200				
2.0	Sandy Clay	300×850	300×1050	300×1300	300×1350				
2.0	Clay	300×600	300×800	300×1000	300×1100				
2.5	Sandy Clay	300×800	300×1000	300×1250	300×1300				
2.3	Clay	300×600	300×750	300×950	300×1000				
3.0	Sandy Clay	300×700	300×850	300×1100	300×1200				
3.0	Clay	300×600	300×650	300×850	300×900				

#### **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.



#### Limitations

Product Name ®

**Product Description** 

Manufacturer's Details

Ms/Mt/Md = 1.00Importance Level I

definition of terrain categories.

Cp (max) = +1.2 for general fence area

Design Criteria

Mz,cat(1.0) = 0.97Mz.cat(2.0) = 0.91

Mz,cat(2.5) = 0.87

Mz,cat (3.0) = 0.83

Pressure Coefficients:

and minimum AM125 coating (unpainted).

Stratco (Australia) Pty Ltd

The following criteria was used in the development of the tables: Region C with an annual probability of exceedence of 1:200

Vr = Fc 6 Im/s (limit state), with Mc = 1.05

1. All SHS posts and rails minimum C350, galvanised in accordance with AS/NZS 4792:2006, brackets minimum G300, Z275.

= +2.4 for a distance of 2H from free ends

Refer AS/NZS 1170.2:2021 Structural design actions Part 2: Wind Actions for

Vertical Styleline Fencing - No Shielding Option

Vertical Styleline Fencing - (No Shielding Option) panels manufactured from 0.42mm BMT G550 steel, minimum AM100 coating (pre-painted),

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

- 2. Minimum 50mm spacing between each vertical panel and between the base of panels and ground level.
- 3. Bottom rail positioned maximum 250mmm 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 ioins 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

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SHEET

DTCM drawing number:

M/388/01

Chairperson Signature:

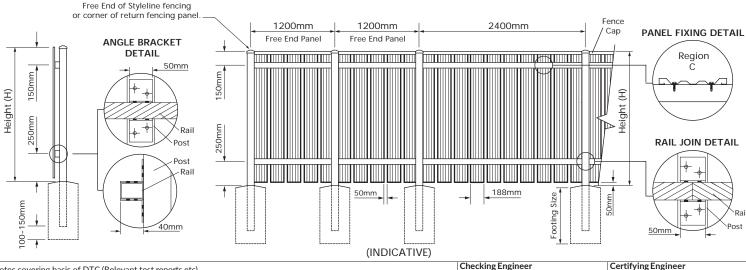
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**Chairperson Name:** 

Dr Elisha Harris

Date of Approval:

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



Notes covering basis of DTC (Relevant test reports etc)

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

### **Footing Specifications:**

- 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.
- Concrete to be minimum N20 grade with top of footings shaped to direct water away from posts.

Name: Glenn Turner

Registration Number: NER 382373 I

18/03/2025

fust be an Australian registered structural enginee

Must be a registered structural engineer in the Northern Territo

Name: Matthew Mammone

Date: 24/03/2025

NT Registration Number: 243890ES