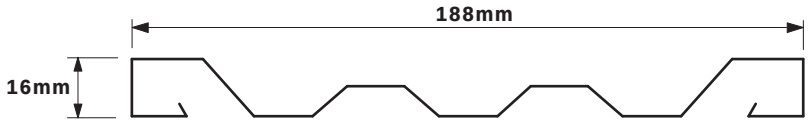
HORIZONTAL CYCLONIC STYLELINE® FENCING

Full Shielding Option

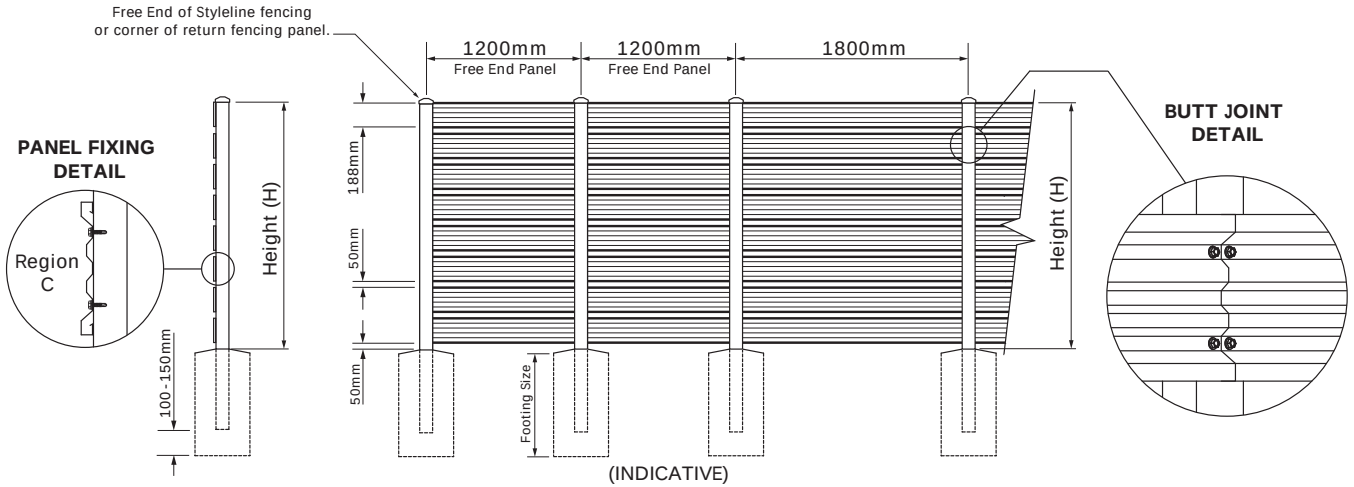


Post Requirements (mm)		
Terrain Category	**Post Height**	**Post Type**
1.0	**952**	50x50x2.0
	1190	65x65x2.0
	1666	75x75x2.5
	1904	100x100x3.0
2.0	**952**	50x50x2.0
	1190	65x65x2.0
	1666	65x65x3.0
	1904	100x100x2.5
2.5	**952**	50x50x1.6
	1190	50x50x3.0
	1666	65x65x3.0
	1904	75x75x3.0
3.0	**952**	50x50x1.6
	1190	50x50x2.0
	1666	65x65x2.0
	1904	75x75x2.5

Circular Footing Sizes (mm)					
Terrain Category	**Soil Type**	**Fence Height**			
		952	**1190**	**1666**	**1904**
1.0	**Sandy Clay**	300x700	300x900	300x1050	300x1300
	Clay	300x600	300x600	300x750	300x950
2.0	**Sandy Clay**	300x650	300x800	300x1000	300x1200
	Clay	300x600	300x600	300x650	300x850
2.5	**Sandy Clay**	300x650	300x750	300x950	300x1150
	Clay	300x600	300x600	300x600	300x800
3.0	**Sandy Clay**	300x650	300x650	300x850	300x1000
	Clay	300x600	300x600	300x600	300x700

Fixing Details

1. Panels pan fixed with two class four, minimum 12x20mm self drilling screws at each support post.
2. For fixing butt joints, ensure screws are located minimum of 20mm from the panel edge.
3. For drainage purposes, it is recommended panels are installed at a slope to one end of 1:500, alternatively, a 5mm drainage hole is drilled mid-span of each panel between posts.
4. The base of fence posts (not powder-coat finished) embedded in concrete shall be protective coated in accordance with NCC2022.



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 ®

Horizontal Styleline Fencing - Full Shielding Option

Product Description

Horizontal 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. Vr = Fc 61m/s (limit state), with Mc = 1.05
3. Importance Level 1
4. Ms = 0.85, Mt = 1.0, Md = 1.0 for cladding and track design
   Md = 0.9 for post and footing design

Mz,cat (1.0) = 0.97
Mz,cat (2.0) = 0.91
Mz,cat (2.5) = 0.87
Mz,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, Ms, calculated from AS/NZS1170.2:2021.

Pressure Coefficients:
Cp (max) = +1.2 for general fence area
= +2.4 for a distance of 2H from free ends

Limitations

1. All SHS posts minimum C350, galvanised in accordance with AS/NZS 4792:2006.
2. Minimum 50mm spacing between each horizontal panel and between the base of a panel and ground level.
3. Panels shall be continuous for a minimum of two spans.
4. Maximum post spacing 1800mm. Maximum post spacing at free ends, 1200mm.
5. 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. for a 1800mm high fence, the length of a free end is 3600mm.
6. Free ends are comprised of 2 free end panels for 952mm and 1190mm high fences and 3 free end panels for sheets for 1666mm and 1904mm high fences.

Accepted for inclusion in Deemed to Comply Manual SHEET 1 OF 1

DTCM drawing number: **M/385/01**

Chairperson Signature:

Chairperson Name: Dr Elisha Harris

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