

Good Neighbour®

Cyclonic Fencing - Region C



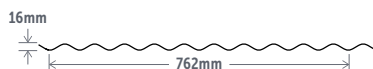
Strong and Attractive Fencing

Stratco Good Neighbour® fencing is both strong and attractive. Its design allows clean and uncluttered lines to be enjoyed by neighbours on both sides of the fence. Good Neighbour's strength and style is achieved by using fence sheets that fit simply into profiled steel tracks and posts. It is this simple design that makes Good Neighbour fencing so easy to install. Stratco Good Neighbour® fence sheet profiles include CGI Corrugated, Superdek® and Smartspan® and are available in a wide range of colours.

Components

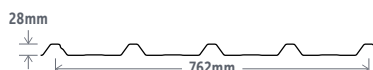
CGI FENCE SHEET

Material: 0.35mm BMT G550 AZ150



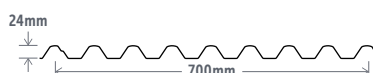
SUPERDEK® FENCE SHEET

Material: 0.35mm BMT G550 AZ150



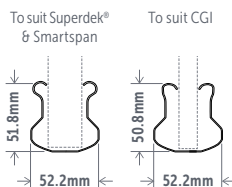
SMARTSPAN® FENCE SHEET

Material: 0.35mm BMT G550 AZ150



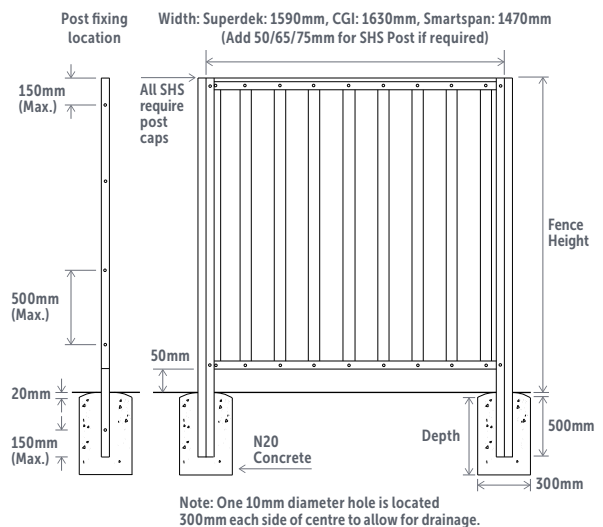
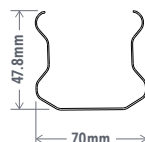
TRACK

Material: 0.8mm BMT G550 Z275



STANDARD POST

Material: 0.8mm BMT G550 Z275

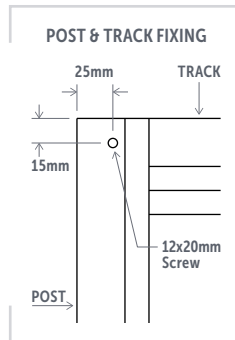


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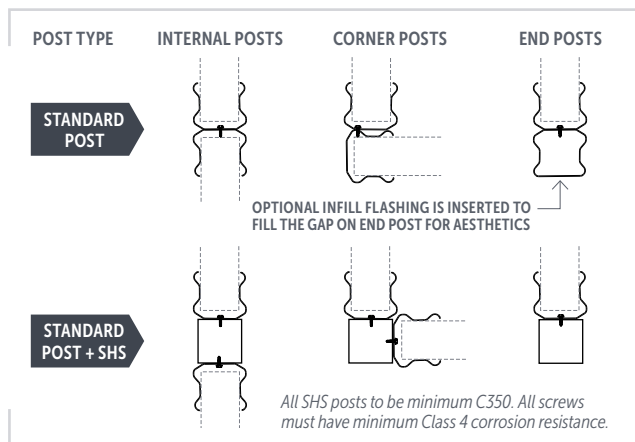
Fixing Recommendations

Fix the fence tracks to the post with one 12x20mm self drilling screw on each side of the post.

Fix the sheets to the tracks using one 10x25mm self drilling screw in line with every rib for Superdek, every third crest for CGI and every second rib for Smartspan. It is recommended adjacent screws are secured on alternating sides of the fence tracks.



Fasten sheets mid-span at the overlap using a 3mm rivet. Posts are to be fixed to each other using 12x20mm self drilling screws at a maximum spacing of 500mm.



Free Ends: Any free end requires the final two fence modules be replaced with four single sheet fence panels.

Design Criteria

Fence Panels have been tested at the University of Adelaide by Engtest (Ref: C041001) and conform to the strength requirements of AS4040.3 and AS1562.1. Design Criteria determined in accordance with AS/NZS1170.2:2011 Wind Actions.

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

1. Region C with an annual probability of exceedance of 1:200
2. $V_r = F_c \times 61\text{m/s}$ (limit state), with $M_c = 1.05$
3. Importance Level 1
4. $M_s = 0.85$ for full shielding and 1.0 for no shielding, $M_t = 1.0$,
 $M_d = 1.0$ for cladding and track design
 $M_d = 0.9$ for post and footing design

$M_{z,cat} (1.0) = 0.97$

$M_{z,cat} (2.0) = 0.91$

$M_{z,cat} (2.5) = 0.87$

$M_{z,cat} (3.0) = 0.83$

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

Pressure Coefficients:

$C_p (\text{max}) = +1.2$ for general fence area

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

Region C - Full Shielding

Post Type

Terrain Category	Fence Height (mm) Both Posts into Footings			Fence Height (mm) SHS Only into Footings		
	1200	1500	1800	1200	1500	1800
1.0	Standard	50x50x1.6	65x65x2.0	50x50x3.0	65x65x2.5	75x75x3.0
2.0	Standard	Standard	50x50x2.0	50x50x2.0	65x65x2.0	65x65x3.0
2.5	Standard	Standard	50x50x2.0	50x50x2.0	65x65x2.0	65x65x3.0
3.0	Standard	Standard	50x50x1.6	50x50x2.0	50x50x3.0	65x65x3.0

300mm Diameter Circular Footing Sizes (mm)

Terrain Category	Soil Type	Fence Height		
		1200	1500	1800
1.0	Sandy Clay	650	800	1000
	Clay	600	600	700
2.0	Sandy Clay	650	700	900
	Clay	600	600	600
2.5	Sandy Clay	650	700	900
	Clay	600	600	600
3.0	Sandy Clay	650	650	850
	Clay	600	600	600

Region C - No Shielding

Post Type

Terrain Category	Fence Height (mm) Both Posts into Footings			Fence Height (mm) SHS Only into Footings		
	1200	1500	1800	1200	1500	1800
1.0	Standard	50x50x2.0	75x75x2.5	65x65x2.5	65x65x3.0	100x100x2.5
2.0	Standard	50x50x1.6	65x65x2.5	50x50x3.0	65x65x2.5	75x75x3.0
2.5	Standard	50x50x1.6	65x65x2.0	50x50x3.0	65x65x2.5	75x75x3.0
3.0	Standard	50x50x1.6	65x65x2.0	50x50x2.5	65x65x2.5	75x75x3.0

300mm Diameter Circular Footing Sizes (mm)

Terrain Category	Soil Type	Fence Height		
		1200	1500	1800
1.0	Sandy Clay	750	900	1200*
	Clay	600	600	800
2.0	Sandy Clay	700	850	1150*
	Clay	600	600	750
2.5	Sandy Clay	650	800	1050*
	Clay	600	600	700
3.0	Sandy Clay	650	800	1000
	Clay	600	600	650

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.

*Alternatively, footing diameter may be increased to 450mm and the footing depth reduced to 900mm.



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MAINTENANCE: Your Stratco Good Neighbour fence will maintain its good looks for even longer with a simple wash and wipe down using a soft broom. Fencing should not be located within 1000m of a marine environment or in severe industrial or corrosive environments. Refer to the 'Selection, Use and Maintenance of Stratco Steel Products' brochure for more advice on maintaining your Good Neighbour fence.