

Acoustic barrier reduces noise levels by 39dB in a stylish boundary for shopping centre



PROBLEM

As part of a shopping centre upgrade in Mc Laren Vale SA, the council required an acoustic wall with a DB rating of 39 to be installed along a boundary adjoining residential properties. Due to boundary height variations, the wall needed to hold back some soil. Access was a challenge as the wall in some sections was only 2-3 meters from a high retaining wall.

SOLUTION

Dunewall provided the ideal cost effective acoustic wall solution. With a DB rating of 39 and the ability to retain soil, Dunewall was the ideal partner for this commercial boundary. Clean modern styling to both sides of the wall enhances overall appeal.

KEY ADVANTAGES

- › No expensive foundations (also allowed installation close to environmentally sensitive trees)
- › High acoustic rating (39DB)
- › Looks great from both sides
- › Affordable acoustic wall solution when compared to block alternatives



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SMART WALL SOLUTIONS

1. Exceptional acoustic properties solving noise reduction issues - tested to Australian standards by NATA approved laboratory
2. Pre-engineered walls to height and wind ratings for easy specification
3. Cost effective alternative to expensive rendered block wall systems without compromising aesthetics
4. Smart modular design ensures minimal site disruption and quick hassle free installation - Easy DIY
5. Attractive boundary and retainer solutions for designer landscaping solutions
6. Quality privacy screening solutions for sloping and extensive boundaries
7. Exceptional quality components that deliver true longevity in Australia's harsh conditions
8. A hands on approach to solving the acoustic, privacy and aesthetic challenges that boundary walls present

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DuneWall > Pre-Engineered Custom Post

1. Universal Post (mm)
100 UC 14.8 | 150 UC 23.4 | 200 UC 46.2 | 250 UC 72.9 | 310 UC 96.8

2. Wall Panel (mm) Single Rebate
WP 924 > 900H x 2400L | WP 1224 > 1200H x 2400L
WP 930 > 900H x 3000L | WP 1230 > 1200H x 3000L

3. Locking Key (mm)
100 UCLK36 > 3600

150 UCLK36 > 3600

350 UCLK36 > 3600

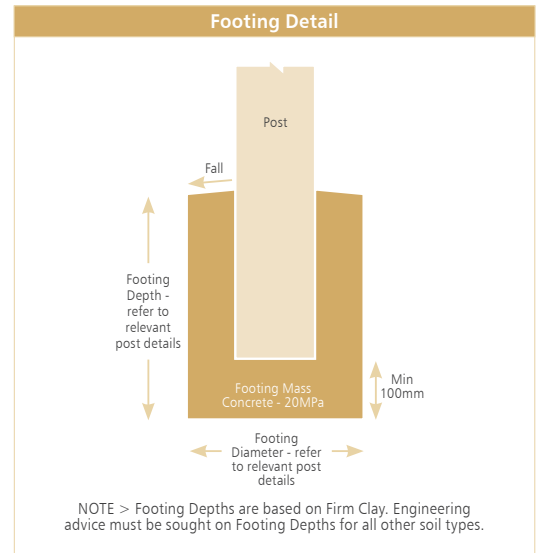
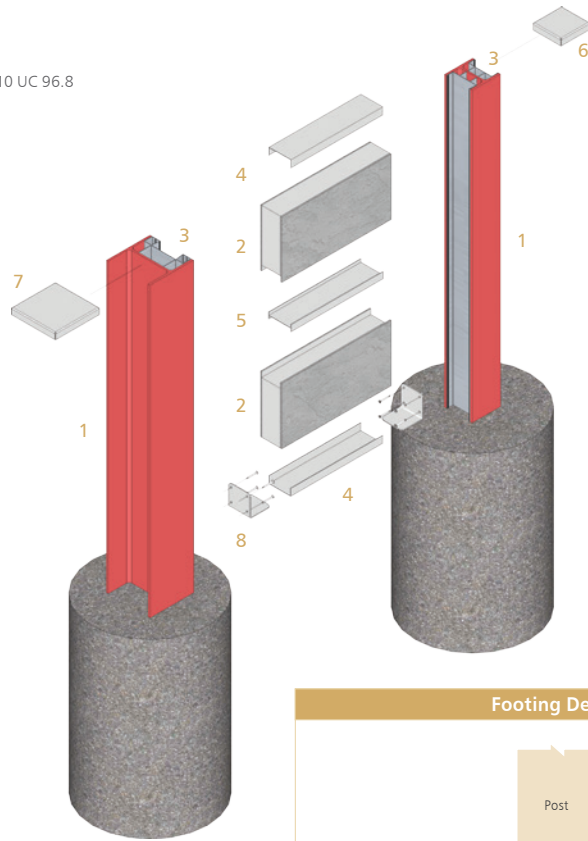
4. Pre Primed Gal Flush Capping (mm)
FCZ30 > 3000

5. Alloy Panel Joiner (mm)
APJ > 2350 | 2950

6. Dunewall 100 Post Cap
DPC100

7. Dunewall 150 Post Cap
DPC150

8. Pre Primed Wall Support Bracket
WSBZ



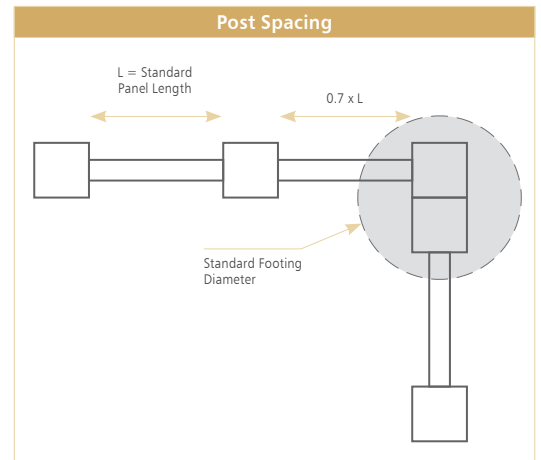
Maximum Post Height & Wind Regions

Panel Length mm	Wall Height mm							
	1800	2100	2400	2700	3000	3300	3600	4000
2400	C2	C2	C1	C1	N3	N2	N2	N2
3000	N3	N3	N3	N3	N2	-	-	-

Footing Depths for 350mm Diameter Footing for various Wind Regions

Panel Length mm	Wall Height mm							
	1800	2100	2400	2700	3000	3300	3600	4000
2400	N2 - 600	N2 - 700	N2 - 750	N2 - 850	N2 - 950	N2 - 1050	N2-1100	
	N3 - 750	N3 - 900	N3 - 950	N3 - 1050	N3 - 1150	-	-	
	C1 - 900	C1 - 1000	C1 - 1100	C1 - 1200	-	-	-	
	C2 - 1000	C2 - 1200	-	-	-	-	-	
3000	N2 - 650	N2 - 750	N2 - 850	N2 - 950	N2 - 1050	-	-	
	N3 - 800	N3 - 950	N3 - 1100	N3 - 1200	-	-	-	

NOTE > N2 - 600 Denotes 350 Diameter x 600 Deep Footing for Wind Region N2
> Refer to Footing Detail and Corner Footing pages



- ### Specifications
- Wallmark "DuneWall" Structural Steel System
 - Post Spacing 2400 - 3000mm
 - Engineering as per above table
 - To be installed as per manufactures specification