

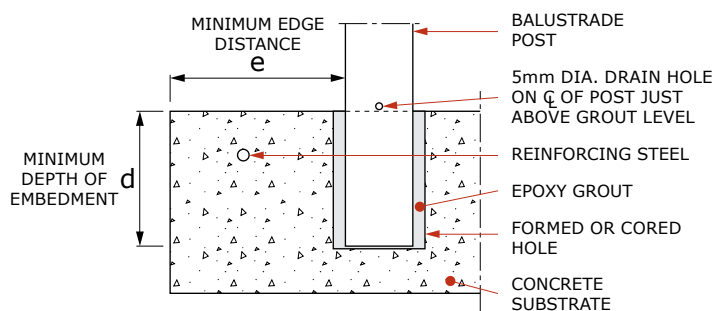
FIXING SPECIFICATIONS

NZBAL-C12.0 | SPEC ID FS.3T.12.03

CONCRETE - POST BUILT INTO

Refer to all notes on Pages 100 and 101 which shall apply to this specification and the relevant pages in Chapter 5 Installation Guides. Refer also to Chapter 2 for the Style Specification.

APS & APE POST TYPES ONLY



d = MINIMUM DEPTH OF EMBEDMENT OF SLEEVE INTO STRUCTURAL CONCRETE

e = MINIMUM DISTANCE FROM EDGE OF STRUCTURAL CONCRETE

1. Form or core holes in the substrate to receive the posts with sufficient space allowance for grouting all around the post.
2. After the posts have been temporarily secured in their final position, grout in position with a pourable epoxy grout as shown. Maintain all temporary securing devices in position until the grout has reached a compressive stress of 10 MPa.
3. All embedment depths given in this manual assume the concrete has 28 day crushing strength of 25 MPa. For 20 MPa concrete, decrease the post spacing by 5% or increase the depth of embedment by 5%.
4. The required edge distance 'e' will vary with the post spacing, the concrete strength and the reinforcement in the deck edge. A recommendation for each job should be obtained from the building designer. Where this cannot be obtained or the reinforcing details are unknown use 'e' = 130mm.
5. Required minimum depth of embedment 'd' is shown in the Table below.
6. Substrate design, including waterproofing, is beyond the scope of this specification and shall be carried out by others.

		MAXIMUM POST CENTRES 'S max' (metres) ALWAYS TAKE THE LESSER OF THE VALUE BELOW AND THE VALUE FROM THE STYLE SPECIFICATION																				
Height ⁽²⁾	Post Type	'd' (See diagram)	LOADING CLASS ⁽¹⁾																			
			N07C/N07R									N03R	Not Preventing Fall									
			Design Wind Speed ⁽³⁾										Design Wind Speed ⁽³⁾									
			VH	EH								M	EH									
			50	52	54	56	58	60	62	64	N/A	38	40	42	44	46	48	50	52	54	56	
1.0	APS	100	1	1.27	1.27	1.27	1.25	1.16	1.09	1.02	0.95	2.70	2.48	2.44	2.22	2.02	1.85	1.70	1.56	1.45	1.34	1.25
		120	2	1.44	1.44	1.44	1.42	1.32	1.24	1.16	1.09	2.90	2.80	2.79	2.53	2.30	2.11	1.94	1.78	1.65	1.53	1.42
	APE	100	3	1.42	1.42	1.42	1.39	1.30	1.21	1.13	1.06	2.95	2.77	2.72	2.47	2.25	2.06	1.89	1.74	1.61	1.49	1.39
		120	4	1.67	1.67	1.67	1.63	1.52	1.42	1.33	1.25	2.95	2.90	2.90	2.90	2.65	2.42	2.22	2.05	1.90	1.76	1.63
1.1	APS	100	5	1.16	1.16	1.11	1.03	0.96	0.90	0.84	0.79	2.48	2.24	2.02	1.84	1.67	1.53	1.40	1.30	1.20	1.11	1.03
		120	6	1.32	1.32	1.27	1.18	1.10	1.03	0.96	0.90	2.70	2.56	2.31	2.10	1.91	1.75	1.61	1.48	1.37	1.27	1.18
	APE	100	7	1.29	1.29	1.24	1.15	1.07	1.00	0.94	0.88	2.70	2.50	2.25	2.04	1.86	1.70	1.56	1.44	1.33	1.24	1.15
		120	8	1.52	1.52	1.45	1.35	1.26	1.18	1.10	1.04	2.80	2.94	2.65	2.41	2.19	2.00	1.84	1.70	1.57	1.45	1.35
1.2	APS	100	9	1.06	1.01	0.93	0.87	0.81	0.75	0.71	0.66	2.28	1.89	1.70	1.55	1.41	1.29	1.18	1.09	1.01	0.93	0.87
		120	10	1.15	1.15	1.07	0.99	0.92	0.86	0.81	0.76	2.40	2.15	1.94	1.76	1.60	1.47	1.35	1.24	1.15	1.07	0.99
	APE	100	11	1.18	1.12	1.04	0.97	0.90	0.84	0.79	0.74	2.54	2.10	1.90	1.72	1.57	1.43	1.32	1.22	1.12	1.04	0.97
		120	12	1.39	1.32	1.23	1.14	1.06	1.00	0.93	0.87	2.65	2.48	2.24	2.03	1.85	1.69	1.55	1.43	1.32	1.23	1.14

1. LOADING CLASS: Refer to Page 176 for the scope of the Loading Class designations.
2. HEIGHT 'H': is the overall height of the balustrade above the substrate level shown. Interpolate for Heights between those shown.
3. DESIGN WIND SPEED: in m/s, Refer to Pages 51 to 52 for details of applicable wind codes and the methods for determining the Design Wind Speed.

Specifications subject to change without notice