

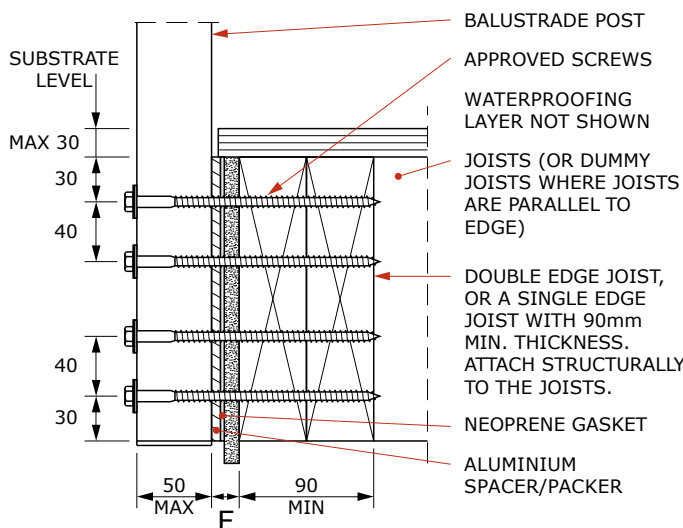
FIXING SPECIFICATIONS

NZBAL-C12.0 | SPEC ID FS.1S.04.03

DRY TIMBER - SIDE FIXING, SCREWS, 90MM EDGE JOIST

Refer to all notes on Pages 72 and 73 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



- For details of approved fasteners refer to General Notes on Page 72 note 3.
- The post spacings shown are based on the fixing screws having Fully Developed Thread - FDT (i.e. excluding the unthreaded shank) engaging with the full width of the timber joist. This will exist if the dimension 'F' on the diagram is within the limits shown in the Table. Where this does not occur, the post spacing must be reduced, by the proportion of FDT engagement to 90mm. Check suitability of screw protrusion on the inside where this may occur. Sizes of Pass holes in the posts shall not exceed screw diameter plus 1mm.
- Washers to be fitted under screw and bolt heads shall be as follows
 - For 8mm fasteners - washer supplied with fasteners.
- Substrate design including waterproofing and the structural design of the timber substrate and its connections are not included in this specification and must 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 ⁽³⁾	Post Type	Joist Size	Fasteners - Qty and Type ⁽²⁾	'F' (See diagram)	Line No.	LOADING CLASS ⁽¹⁾																		
						N07C/N07R										N03R	Not Preventing Fall							
						Design Wind Speed ⁽⁴⁾											Design Wind Speed ⁽⁴⁾							
						VH		EH		EH		EH		EH		M		H		VH		EH		
50	52	54	56	58	60	62	64	66	68	70	N/A	38	40	42	44	46	48	50	52	54	56			
1.0	APS	140	3 x FC8-165	0-20	1	0.89	0.89	0.89	0.87	0.81	0.75	0.71	0.66	1.90	1.49	1.49	1.49	1.40	1.28	1.18	1.09	1.00	0.93	0.87
	APS	190+	4 x FC8-165	0-20	2	1.25	1.25	1.25	1.25	1.16	1.09	1.02	2.69	2.23	2.23	2.23	2.16	1.98	1.82	1.68	1.55	1.44	1.34	
	APE	140	3 x FC8-165	0-20	3	0.92	0.92	0.92	0.92	0.86	0.81	0.76	0.71	1.98	1.54	1.54	1.54	1.50	1.37	1.26	1.16	1.07	1.00	0.93
	APE	190	4 x FC8-165	0-20	4	1.47	1.47	1.47	1.47	1.43	1.34	1.25	1.17	3.14	2.37	2.37	2.37	2.37	2.27	2.09	1.92	1.78	1.65	1.53
	APE	240+	4 x FC8-165	0-20	5	1.66	1.66	1.66	1.66	1.64	1.53	1.44	1.35	3.56	2.94	2.94	2.94	2.85	2.61	2.40	2.21	2.04	1.89	1.76
1.1	APS	140	3 x FC8-165	0-20	6	0.81	0.81	0.78	0.72	0.67	0.63	0.59	0.55	1.74	1.25	1.25	1.25	1.17	1.07	0.98	0.91	0.84	0.78	0.72
	APS	190+	4 x FC8-165	0-20	7	1.15	1.15	1.15	1.12	1.04	0.97	0.91	0.85	2.46	1.86	1.86	1.86	1.81	1.65	1.52	1.40	1.29	1.20	1.12
	APE	140	3 x FC8-165	0-20	8	0.85	0.85	0.83	0.77	0.72	0.68	0.63	0.59	1.82	1.30	1.30	1.30	1.26	1.15	1.05	0.97	0.90	0.83	0.77
	APE	190	4 x FC8-165	0-20	9	1.35	1.35	1.35	1.28	1.19	1.12	1.04	0.98	2.90	2.01	2.01	2.01	2.01	1.90	1.74	1.61	1.49	1.38	1.28
	APE	240+	4 x FC8-165	0-20	10	1.51	1.51	1.51	1.47	1.37	1.28	1.20	1.12	3.24	2.45	2.45	2.45	2.38	2.18	2.00	1.84	1.70	1.58	1.47
1.2	APS	140	3 x FC8-165	0-20	11	-	-	-	-	-	-	-	-	-	1.07	1.07	1.07	0.99	0.91	0.84	0.77	0.71	0.66	0.61
	APS	190+	4 x FC8-165	0-20	12	1.06	1.06	1.02	0.95	0.88	0.83	0.77	0.73	2.26	1.57	1.57	1.57	1.53	1.40	1.29	1.19	1.10	1.02	0.95
	APE	140	3 x FC8-165	0-20	13	-	-	-	-	-	-	-	-	-	1.11	1.11	1.11	1.07	0.97	0.90	0.83	0.76	0.71	0.66
	APE	190	4 x FC8-165	0-20	14	1.26	1.26	1.17	1.09	1.01	0.95	0.89	0.83	2.69	1.73	1.73	1.73	1.73	1.61	1.48	1.36	1.26	1.17	1.09
	APE	240+	4 x FC8-165	0-20	15	1.39	1.39	1.34	1.25	1.16	1.09	1.02	0.95	2.99	2.08	2.08	2.08	2.02	1.85	1.70	1.56	1.44	1.34	1.25

- LOADING CLASS: Refer to Page 176 for the scope of the Loading Class designations.
- FASTENER DESIGNATIONS: beginning with 'F' are part numbers for fasteners supplied by UNEX eg. FC8-165: FC = Coach Screw Stainless Steel. 8 = 8mm diameter, 165 = length in mm; Substitution with other fasteners is not permitted.
- HEIGHT 'H': is the overall height of the balustrade above the substrate level shown. Interpolate for Heights between those shown.
- 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.