

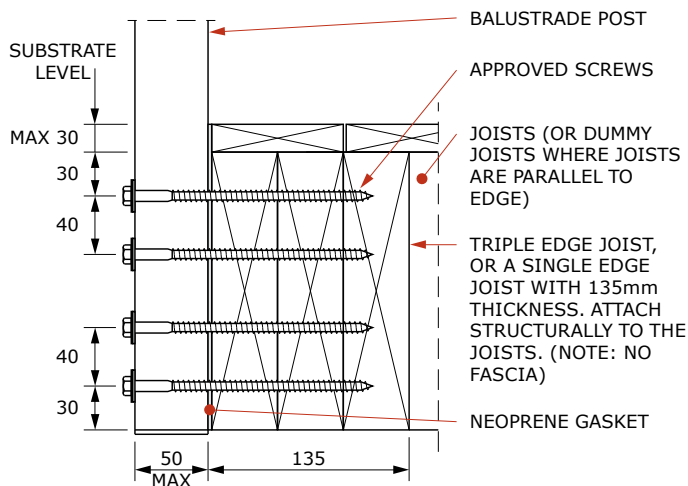
FIXING SPECIFICATIONS

NZBAL-C12.0 | SPEC ID FS.2S.05.01

WET TIMBER - SIDE FIXING, SCREWS, 135MM 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.

VPM2, VPH2 & VPE 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 for the full embedment of the screw. This will exist if the balustrade post is attached directly to the timber joist with no fascia or cladding between (except for the neoprene gasket). 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.
- Important, the FC8-165 coachscrews in this specification are to be used with the "Sika Supergrip 2 Hour" adhesive system (TASG).

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⁾	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	N/A	38	40	42	44	46	48	50	52	54	56					
1.0	VPM2	190+	4 x FC8-165	1	0.84	0.84	0.84	0.84	0.81	0.76	0.71	0.67	1.80	1.49	1.49	1.49	1.41	1.29	1.19	1.09	1.01	0.94	0.87
	VPH2	190	4 x FC8-165	2	1.07	1.07	1.07	1.07	1.02	0.95	0.89	0.84	2.28	1.89	1.89	1.89	1.77	1.62	1.49	1.37	1.27	1.18	1.10
	VPH2	240+	4 x FC8-165	3	1.07	1.07	1.07	1.07	1.02	0.95	0.89	0.84	2.29	1.89	1.89	1.89	1.77	1.62	1.49	1.37	1.27	1.18	1.09
	VPE	190	4 x FC8-165	4	1.31	1.31	1.30	1.21	1.13	1.05	0.99	0.92	2.81	2.22	2.22	2.15	1.96	1.79	1.64	1.52	1.40	1.30	1.21
	VPE	240+	4 x FC8-165	5	1.33	1.33	1.33	1.33	1.25	1.17	1.10	1.03	2.85	2.36	2.36	2.36	2.18	1.99	1.83	1.69	1.56	1.45	1.34
1.1	VPM2	190+	4 x FC8-165	6	-	-	-	-	-	-	-	-	-	1.24	1.24	1.24	1.18	1.08	0.99	0.91	0.84	0.78	0.73
	VPH2	190	4 x FC8-165	7	0.97	0.97	0.97	0.91	0.85	0.80	0.74	0.70	2.09	1.58	1.58	1.58	1.48	1.35	1.24	1.15	1.06	0.98	0.91
	VPH2	240+	4 x FC8-165	8	0.97	0.97	0.97	0.91	0.85	0.80	0.74	0.70	2.09	1.58	1.58	1.58	1.48	1.35	1.24	1.15	1.06	0.98	0.91
	VPE	190	4 x FC8-165	9	1.21	1.19	1.10	1.02	0.95	0.89	0.83	0.78	2.59	1.87	1.87	1.82	1.66	1.51	1.39	1.28	1.19	1.10	1.02
	VPE	240+	4 x FC8-165	10	1.22	1.22	1.21	1.12	1.05	0.98	0.91	0.86	2.61	1.97	1.97	1.97	1.82	1.66	1.53	1.41	1.30	1.21	1.12
1.2	VPM2	190+	4 x FC8-165	11	-	-	-	-	-	-	-	-	-	1.05	1.05	1.05	1.00	0.92	0.84	0.77	0.72	0.66	0.62
	VPH2	190	4 x FC8-165	12	0.90	0.90	0.83	0.77	0.72	0.67	0.63	0.59	1.92	1.34	1.34	1.34	1.25	1.15	1.05	0.97	0.90	0.83	0.77
	VPH2	240+	4 x FC8-165	13	0.90	0.90	0.83	0.77	0.72	0.67	0.63	0.59	1.92	1.34	1.34	1.34	1.25	1.15	1.05	0.97	0.90	0.83	0.77
	VPE	190	4 x FC8-165	14	1.10	1.02	0.94	0.88	0.82	0.76	0.71	0.67	2.40	1.61	1.61	1.56	1.42	1.30	1.19	1.10	1.02	0.94	0.88
	VPE	240+	4 x FC8-165	15	1.12	1.10	1.02	0.95	0.89	0.83	0.78	0.73	2.40	1.67	1.67	1.67	1.54	1.41	1.29	1.19	1.10	1.02	0.95

1. LOADING CLASS: Refer to Page 176 for the scope of the Loading Class designations.
 2. 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.
 3. HEIGHT 'H': is the overall height of the balustrade above the substrate level shown. Interpolate for Heights between those shown.
 4. 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.