

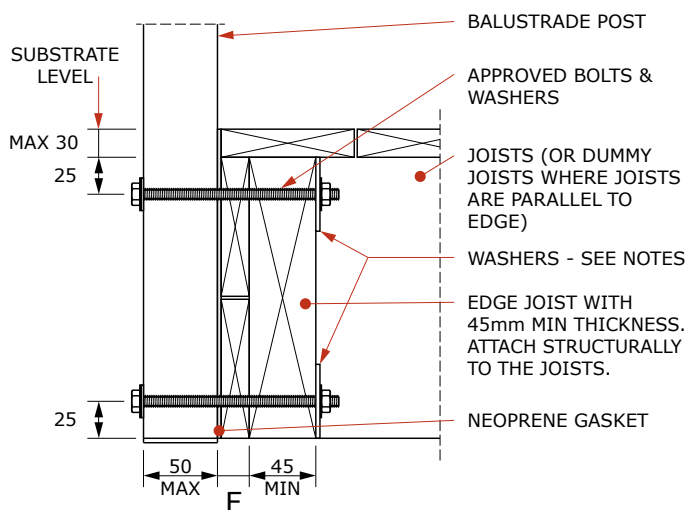
FIXING SPECIFICATIONS

NZBAL-C12.0 | SPEC ID FS.2S.06.01

WET TIMBER - SIDE FIXING, BOLTS

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.
- Washers to be fitted under screw and bolt heads shall be as follows
 - For 8mm bolts - 22mm O.D. S/S washer (Part No. FW8-22) with a polymer washer (Part No. FWP8-22G) between the S/S and the aluminium.
 - For washers bearing against timber use 50 x 50 x 3mm stainless steel washers (Part No. FW10-50SQ).
- SUBSTRATE design including waterproofing, the structural design of the timber members and their connections, is beyond the scope of this specification and must be carried out by others.
- Spacings in Table below are based on Wet timber, using Pinus Radiata with an in-service moisture content that exceeds 18%, eg. exposed decks. For Dry timber, where the in-service moisture content is 18% or less, refer to specification FS.1S.06.01 on Page 83.
- 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	54	56	58	60	62	64	M	H	VH	EH	38	40	42	44	46	48	50
1.0	VPM2	190+	2 x M8 Bolts	NA	1	0.84	0.84	0.84	0.84	0.80	0.75	0.70	0.66	1.81	1.51	1.51	1.51	1.39	1.27	1.17	1.07	0.99	0.92	0.86
	VPH2	140	2 x M8 Bolts	NA	2	0.92	0.92	0.91	0.85	0.79	0.74	0.69	0.65	1.98	1.56	1.56	1.51	1.37	1.25	1.15	1.06	0.98	0.91	0.85
	VPH2	190+	2 x M8 Bolts	NA	3	1.07	1.07	1.07	1.07	1.00	0.94	0.88	0.83	2.30	1.91	1.91	1.91	1.75	1.60	1.47	1.35	1.25	1.16	1.08
	VPE	190+	2 x M8 Bolts	NA	4	1.34	1.34	1.34	1.33	1.24	1.16	1.08	1.02	2.87	2.26	2.26	2.26	2.15	1.97	1.81	1.67	1.54	1.43	1.33
1.1	VPM2	190+	2 x M8 Bolts	NA	5	-	-	-	-	-	-	-	-	-	1.26	1.26	1.26	1.16	1.06	0.97	0.90	0.83	0.77	0.71
	VPH2	140	2 x M8 Bolts	NA	6	0.85	0.83	0.77	0.71	0.67	0.62	0.58	0.55	1.82	1.32	1.32	1.27	1.16	1.06	0.97	0.90	0.83	0.77	0.71
	VPH2	190+	2 x M8 Bolts	NA	7	0.98	0.98	0.97	0.90	0.84	0.78	0.73	0.69	2.10	1.59	1.59	1.59	1.46	1.33	1.22	1.13	1.04	0.97	0.90
	VPE	190+	2 x M8 Bolts	NA	8	1.22	1.22	1.19	1.11	1.03	0.97	0.90	0.85	2.62	1.91	1.91	1.91	1.79	1.64	1.51	1.39	1.28	1.19	1.11
1.2	VPM2	190+	2 x M8 Bolts	NA	9	-	-	-	-	-	-	-	-	-	1.06	1.06	1.06	0.98	0.90	0.82	0.76	0.70	0.65	0.60
	VPH2	140	2 x M8 Bolts	NA	10	-	-	-	-	-	-	-	-	-	1.12	1.12	1.09	0.99	0.91	0.83	0.77	0.71	0.66	0.61
	VPH2	190+	2 x M8 Bolts	NA	11	0.90	0.88	0.82	0.76	0.71	0.66	0.62	0.58	1.93	1.35	1.35	1.35	1.23	1.13	1.04	0.95	0.88	0.82	0.76
	VPE	190+	2 x M8 Bolts	NA	12	1.12	1.09	1.01	0.94	0.87	0.82	0.77	0.72	2.41	1.64	1.64	1.64	1.52	1.39	1.28	1.18	1.09	1.01	0.94

- LOADING CLASS: Refer to Page 176 for the scope of the Loading Class designations.
- FASTENER DESIGNATIONS: M8 Bolts in the table refer to UNEX Part No's FB8 bolts (Class 70 Stainless Steel), bolts may be substituted with FE8 (M8) Threaded Studs made from 316 Stainless Steel.
- 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.

Specifications subject to change without notice