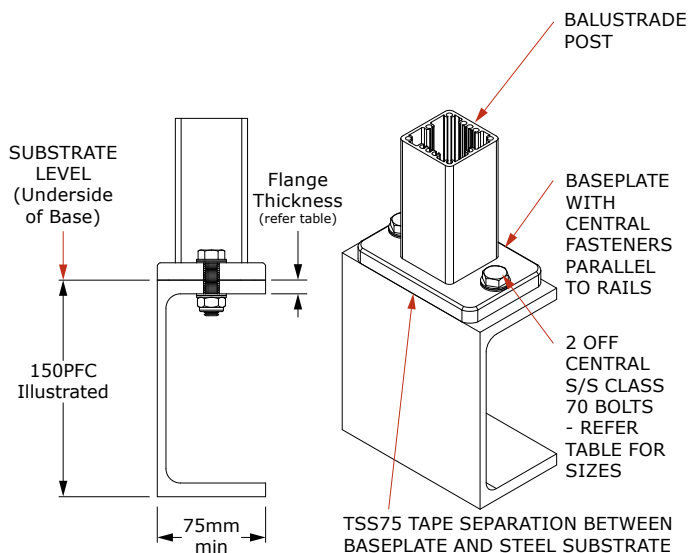


# FIXING SPECIFICATIONS

NZBAL-C12.0 | SPEC ID FS.5T.00.00

## STEEL - TOP FIXING, INLINE 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.



- All bolts, washers and nyloc nuts fixings shall be Class 70 316 stainless steel.
- Washers to be fitted under all bolts as follows;
  - For 10mm bolted - 21mm O.D. S/S washer (Part No. FW10-21) with a polymer washer (Part No. FWP10-22G) between the S/S washer, aluminium baseplate and the steel beam.
  - For 12mm tapped - 24mm O.D. S/S washer (Part No. FW12-24) with a polymer washer (Part No. FWP12-22W) between the S/S washer, aluminium baseplate and the steel beam.
- The maximum post spacing permitted is the LESSER of the spacing tabulated in the Style Specification in Section 3 and spacing shown on the table below.
- Substrate design, including waterproofing and the structural design of the steel substrate and its connections are not included in this specification and must be carried out by others.

- Baseplate 75 x 115mm with 2 x Ø13mm inline fixing holes, at 90mm centres;
  - BSHR** baseplate for **50x50mm** posts
  - BEHR** baseplate for **50x60mm** posts
- The steel beam shall be painted with a good quality paint system consisting of a primer and top coat.



### MAXIMUM POST CENTRES 'S max' (metres)

ALWAYS TAKE THE LESSER OF THE VALUE BELOW AND THE VALUE FROM THE STYLE SPECIFICATION

Height <sup>(3)</sup>	Baseplate Size D x W	Fasteners - Qty and Type <sup>(2)</sup>	Flange Thickness (See diagram)	Line No.	LOADING CLASS <sup>(1)</sup>																		
					N07C/N07R								N03R	Not Preventing Fall									
					Design Wind Speed <sup>(4)</sup>									Design Wind Speed <sup>(4)</sup>									
					VH				EH					M				H					
50	52	54	56	58	60	62	64	N/A	38	40	42	44	46	48	50	52	54	56					
<b>1.0</b>	75 x 115	2 x M10 BOLTS	NA	1	1.40	1.40	1.40	1.39	1.30	1.21	1.14	1.07	3.00	3.03	2.74	2.48	2.26	2.07	1.90	1.75	1.62	1.50	1.39
		2 X M12 TAP	9	2	1.11	1.11	1.11	1.11	1.03	0.96	0.90	0.85	2.38	2.41	2.17	1.97	1.79	1.64	1.51	1.39	1.28	1.19	1.11
		2 X M12 TAP	11	3	1.35	1.35	1.35	1.35	1.26	1.17	1.10	1.03	2.90	2.93	2.64	2.40	2.18	2.00	1.83	1.69	1.56	1.45	1.35
		2 X M12 TAP	12	4	1.40	1.40	1.40	1.39	1.30	1.21	1.14	1.07	3.00	3.03	2.74	2.48	2.26	2.07	1.90	1.75	1.62	1.50	1.39
<b>1.1</b>	75 x 115	2 x M10 BOLTS	NA	5	1.27	1.27	1.24	1.15	1.07	1.00	0.94	0.88	2.73	2.51	2.26	2.05	1.87	1.71	1.57	1.45	1.34	1.24	1.15
		2 X M12 TAP	9	6	1.01	1.01	0.98	0.91	0.85	0.79	0.74	0.70	2.17	1.99	1.79	1.63	1.48	1.36	1.24	1.15	1.06	0.98	0.91
		2 X M12 TAP	11	7	1.23	1.23	1.20	1.11	1.04	0.97	0.91	0.85	2.64	2.42	2.18	1.98	1.80	1.65	1.52	1.40	1.29	1.20	1.11
		2 X M12 TAP	12	8	1.27	1.27	1.24	1.15	1.07	1.00	0.94	0.88	2.73	2.51	2.26	2.05	1.87	1.71	1.57	1.45	1.34	1.24	1.15
<b>1.2</b>	75 x 115	2 x M10 BOLTS	NA	9	1.17	1.12	1.04	0.97	0.90	0.84	0.79	0.74	2.50	2.11	1.90	1.72	1.57	1.44	1.32	1.21	1.12	1.04	0.97
		2 X M12 TAP	9	10	0.92	0.89	0.82	0.77	0.71	0.67	0.62	0.59	1.99	1.67	1.51	1.37	1.24	1.14	1.04	0.96	0.89	0.82	0.77
		2 X M12 TAP	11	11	1.13	1.08	1.00	0.93	0.87	0.81	0.76	0.71	2.42	2.03	1.83	1.66	1.52	1.39	1.27	1.17	1.08	1.00	0.93
		2 X M12 TAP	12	12	1.17	1.12	1.04	0.97	0.90	0.84	0.79	0.74	2.50	2.11	1.90	1.72	1.57	1.44	1.32	1.21	1.12	1.04	0.97

- LOADING CLASS: Refer to Page 176 for the scope of the Loading Class designations.
- FASTENER DESIGNATIONS: M10 and M12 Fasteners in table refer to UNEX Part No's FB10 and FB12 bolts. "M10 Bolts" = bolted with washers and nyloc nuts. "M12 Tap" = bolts threaded into pre-tapped holes in the steel to good workmanship and threads completely smeared with lanoline grease.
- 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