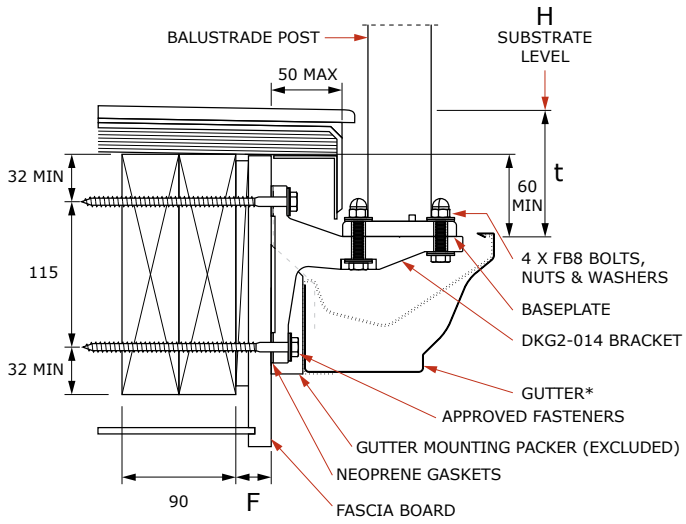
DRY TIMBER - DKG2 FIXING, SCREWS, 90MM EDGE JOIST

This specification for fixing UNEX Balustrades to certain timber substrates where a face gutter is also required. It applies to balustrade styles using VPH2 or VPE posts only. A separate specification must be referred to for the required balustrade style. Refer to Page 56 for notes on balustrade deflection.

VPH2 & VPE POST TYPES ONLY



*Gutter and associated clips flashings and packers are not supplied by the Unex Systems or the balustrade installer. Additional flashings may be required for water deflection in some cases. Gutter profile illustrated is "150mm O/G" from "Continuous Spouting", for more information on supplier visit www.cspout.co.nz. Other gutter profiles may be used. We do not recommend using copper gutters with this detail.

1. The DKG2-014 brackets are required to be installed before the gutter and drip edge.
2. The VPH2 or VPE balustrade posts are attached to the BSMF baseplate and DKG2 bracket as illustrated on pages 156 and 159.
3. The threaded portion of the coach screws must be engaged with the structural timber framing by a minimum of 90mm. This will exist if the dimension 'F' on the diagram (i.e. the distance from the back of the bracket to the face of the timber joist) is within the limits shown in the Table. Where this does not occur the post spacing must be reduced by the proportion of the thread engagement to 90mm
4. Fasteners must be only those supplied by UNEX. Washers to be fitted under screw and bolt heads shall be as follows
   - For FB8 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 FC8-165 fasteners - washers supplied with fasteners.
5. The screw holes must be sealed as shown in figure 19 of E2/AS1. Check the suitability of screw protrusion beyond the timber framing.
6. 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]	't' (See dia-gram)	Post Type	Fasteners - Qty and Type[2]	'F' (See dia-gram)	Line No.	LOADING CLASS[1]																					
						N07C/N07R								N03R	Not Preventing Fall												
						Design Wind Speed[4]									Design Wind Speed[4]												
						VH		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	100	VPH2	4 x FC8-165	14-60	1	1.00	1.00	0.98	0.91	0.85	0.80	0.75	0.70	1.94	1.80	1.67	1.54	1.42	1.31	1.22	1.13	1.05	0.98	0.91			
		VPE	4 x FC8-165	14-60	2	1.15	1.15	1.12	1.04	0.97	0.91	0.85	0.80	2.10	1.95	1.82	1.70	1.58	1.48	1.38	1.28	1.18	1.12	1.04			
	150	VPH2	4 x FC8-165	14-60	3	0.90	0.90	0.83	0.78	0.73	-	-	-	1.78	1.58	1.46	1.34	1.22	1.13	1.04	0.97	0.90	0.83	0.78			
		VPE	4 x FC8-165	14-60	4	1.04	1.02	0.95	0.89	0.83	0.78	0.73	-	1.95	1.76	1.63	1.50	1.38	1.28	1.19	1.10	1.02	0.95	0.89			
	200	VPE	4 x FC8-165	14-60	5	0.92	0.88	0.82	0.76	0.71	-	-	-	1.80	1.57	1.44	1.31	1.20	1.12	1.03	0.95	0.88	0.82	0.76			
	250	VPE	4 x FC8-165	14-60	6	0.82	0.76	0.70	-	-	-	-	-	1.65	1.37	1.25	1.14	1.05	0.96	0.89	0.82	0.76	0.70	-			
	300	VPE	4 x FC8-165	14-60	7	0.71	-	-	-	-	-	-	-	1.53	1.20	1.10	1.00	0.91	0.83	0.77	0.71	-	-	-			
	350	VPE	4 x FC8-165	14-60	9	-	-	-	-	-	-	-	-	1.40	1.05	0.95	0.87	0.79	0.73	-	-	-	-	-			

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 ; 4 x FC8-165 fasteners may be substituted with 4 x M8 bolts (Class 70 Stainless Steel); 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.