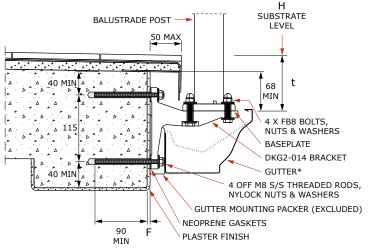
## FIXING SPECIFICATIONS SPEC ID FS.3S.07.01 | NZBAL-C12.0

## CONCRETE - DKG2 FIXING, EPOXY-SET ANCHORS

This specification for fixing UNEX balustrades to certain concrete 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.

## 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.
- The VPH2 or VPE balustrade posts are attached to the BSMF baseplate and DKG2 bracket as illustrated on pages 156 and 159.
- 3. Fixings shall be 8mm diameter 316 stainless steel threaded rod epoxied into the concrete substrate as shown using EPCON C6 epoxy.
- 4. Washers to be fitted under all stud Nyloc nuts as follows
  - For 8mm studs 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.
- 5. A neoprene adhesive gasket shall be fixed to the DKG2-014 bracket to prevent contact between the concrete and the aluminium bracket (Part No. SG24-12).
- 6. For details of anchoring studs to the substrate refer to General Notes Page 101 note 6.
- Substrate design, including water-proofing, is beyond the scope of this specification and shall be carried out by others. Concrete shall have a 28 day Compressive Strength of 20MPa or more (as required for substrate design) and be adequately reinforced.

VPH2   4 x FC8-165   14-60   1   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     100   VPE   4 x FC8-165   14-60   2   1.15   1.12   1.04   0.97   0.91   0.85   0.80   2.10   1.94   1.80   1.67   1.54   1.42   1.31   1.22   1.13     VPE   4 x FC8-165   14-60   2   0.90   0.83   0.78   0.91   0.85   0.80   2.10   1.95   1.82   1.70   1.58   1.48   1.38   1.28     150   VPH2   4 x FC8-165   14-60   3   0.90   0.83   0.78   0.73   -   -   1.78   1.58   1.46   1.34   1.22   1.13   1.04   0.97	EH 52 54 56 1.05 0.98 0.91 1.18 1.12 1.04
Meight dia- gram) 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   100 VPH2 4 x FC8-165 14-60 2 1.15 1.15 1.12 1.04 0.97 0.91 0.85 0.80 0.75 0.70 1.94 1.80 1.67 1.58 1.42 1.31 1.22 1.13   150 VPE 4 x FC8-165 14-60 2 0.90 0.83 0.78 0.70 1.94 1.80 1.67 1.58 1.42 1.31 1.22 1.13   150 VPE 4 x FC8-165 14-60 2 0.90 0.83 0.78 0.70 1.94 1.80 1.67 1.58 1.48 1.38 1.22 1.13   150 VPH2 4 x FC8-165 14-60 3 0.90 0.83 0.78 0.73 - - 1.78 1.58 1.46 1.34 1.22 1.13 <t< td=""><td>EH 52 54 56 1.05 0.98 0.91 1.18 1.12 1.04</td></t<>	EH 52 54 56 1.05 0.98 0.91 1.18 1.12 1.04
granny 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 1.42 1.31 1.22 1.13   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 1.42 1.31 1.22 1.13   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 1.22 1.13   150 VPH2 4 x FC8-165 14-60 3 0.90 0.83 0.78 0.73 - - 1.78 1.58 1.46 1.34 1.22 1.13 1.04 0.97   150 VPH2 4 x FC8-165 14-60 3 0.90 0.83 0.78 0.73 - - 1.78 1.58 1.46 1.34 1.22 1.13 <td>52   54   56     1.05   0.98   0.91     1.18   1.12   1.04</td>	52   54   56     1.05   0.98   0.91     1.18   1.12   1.04
VPH2   4 x FC8-165   14-60   1   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     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     VPH2   4 x FC8-165   14-60   3   0.90   0.83   0.78   0.73   -   -   1.78   1.58   1.46   1.34   1.22   1.13   1.04   0.97     150   VPH2   4 x FC8-165   14-60   3   0.90   0.83   0.78   0.73   -   -   1.78   1.58   1.46   1.34   1.22   1.13   1.04   0.97	1.05 0.98 0.91 1.18 1.12 1.04
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     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     150   VPH2   4 x FC8-165   14-60   3   0.90   0.83   0.78   0.73   -   -   -   1.78   1.58   1.46   1.34   1.22   1.13   1.04   0.97	
150	1 00 0 83 0 78
	1.90 0.03 0.70
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
1.0 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
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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	

