How to design concrete structures using Eurocode 2 Corrections due to Amendment 1 of the UK National Annex



The following are the technical updates applicable to the Sep 2009 revision of How to design concrete structure using Eurocode 2.

Location	Original	Amendment
Page 55, left col, para 2	With Eurocode 2 the permissible shear resistance when using shear links is higher, although such designs may not be economic or desirable.	The UK NA recommends $v_{Ed} \le 2 v_{Rd,c}$ at the basic control perimeter.
Page 55, Figure 6	Determine concrete punching shear capacity (without shear reinforcement). v_{roc} from Table 8 where $r_1 = (r_v, r_v)^{55}$ (r_{v_v}, r_v are the reinforcement ratios in two orthogonal directions for fully bonded tension steel, taken over a width equal to column width plus 3 <i>d</i> each side.)	Determine concrete punching shear capacity (without shear reinforcement). v_{roc} from Table 8 where $r_1 = (r_y, r_y)^{5.5}$ (r_{py}, r_z are the reinforcement ratios in two orthogonal directions for fully bonded tension steel, taken over a width equal to column width plus 3 <i>d</i> each side.) Punching shear reinforcement not required Yes Ves Ves Ves Ves Ves Ves Ves V
Page 20, Figure 3, box 5.	Determine Factor 3 (F3) F3 = $310/\sigma_s$ Where σ_s = Stress in reinforcement at serviceability limit state (see Figure 4) σ_s may be assumed to be 310 MPa (i.e. F3 = 1.0) Note: As,prov \leq 1.5 As,req'd (UK National Annex)	Determine Factor 3 (F3) F3 = $A_{s,prov}/A_{s,req'd} \le 1.5$ (UK National Annex)
Page 21, Figure 4		This is figure is no longer required (but it may be useful)
Page 29, Figure 6, box 5.	Determine Factor 3 (F3) F3 = $310/\sigma_s$ Where σ_s = Stress in reinforcement at serviceability limit state (see Figure 4) σ_s may be assumed to be 310 MPa (i.e. F3 = 1.0) Note: As,prov \leq 1.5 As,req'd (UK National Annex)	Determine Factor 3 (F3) F3 = $A_{s,prov}/A_{s,req'd} \le 1.5$ (UK National Annex)
Page 29, Figure 8		This is figure is no longer required (but it may be useful)
Page 54, Figure 3, box 5.	Determine Factor 3 (F3) F3 = $310/\sigma_s$ Where σ_s = Stress in reinforcement at serviceability limit state (see Figure 4) σ_s may be assumed to be 310 MPa (i.e. F3 = 1.0) Note: As,prov \leq 1.5 As,req'd (UK National Annex)	Determine Factor 3 (F3) F3 = $A_{s,prov}/A_{s,req'd} \le 1.5$ (UK National Annex)
Page 55, Figure 5		This is figure is no longer required (but it may be

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