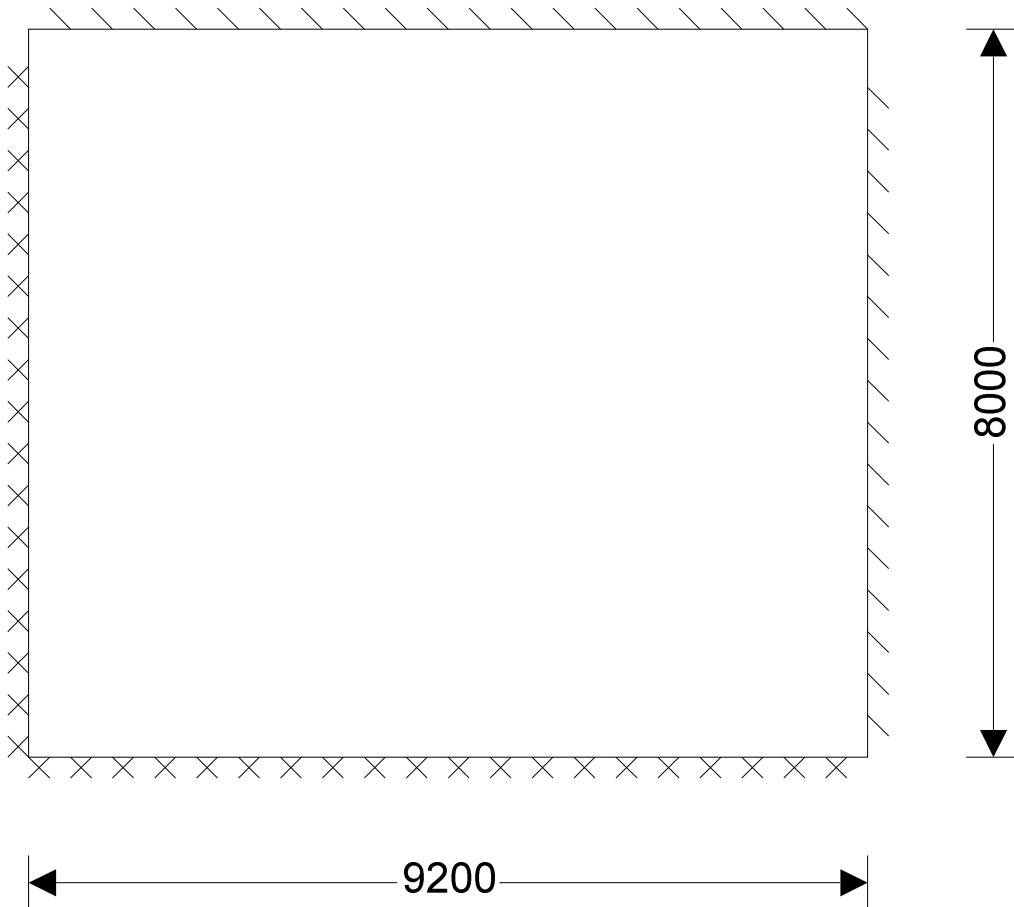
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RC SLAB DESIGN

In accordance with EN1992-1-1:2004 incorporating corrigendum January 2008 and the recommended values



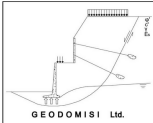
Slab definition

Slab definition

Type of slab;
 Overall slab depth;
 Shorter effective span of panel;
 Longer effective span of panel;

Two way spanning with restrained edges

$h = 225$ mm
 $l_x = 8000$ mm
 $l_y = 9200$ mm

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Support conditions;

Top outer layer of reinforcement;

Bottom outer layer of reinforcement;

Loading

Characteristic permanent action;

Characteristic variable action;

Partial factor for permanent action;

Partial factor for variable action;

Quasi-permanent value of variable action;

Design ultimate load;

Quasi-permanent load;

Concrete properties

Concrete strength class;

Characteristic cylinder strength;

Partial factor (Table 2.1N);

Compressive strength factor (cl. 3.1.6);

Design compressive strength (cl. 3.1.6);

Mean axial tensile strength (Table 3.1);

Maximum aggregate size;

Reinforcement properties

Characteristic yield strength;

Partial factor (Table 2.1N);

Design yield strength (fig. 3.8);

Concrete cover to reinforcement

Nominal cover to outer top reinforcement;

Nominal cover to outer bottom reinforcement;

Fire resistance period to top of slab;

Fire resistance period to bottom of slab;

Axis distance to top reinf't (Table 5.8);

Axis distance to bottom reinf't (Table 5.8);

Min. top cover requirement with regard to bond;

Min. btm cover requirement with regard to bond;

Reinforcement fabrication;

Cover allowance for deviation;

Min. required nominal cover to top reinf't;

Min. required nominal cover to bottom reinf't;

Two adjacent edges discontinuous

Short span direction

Short span direction

$$G_k = 6.0 \text{ kN/m}^2$$

$$Q_k = 5.0 \text{ kN/m}^2$$

$$\gamma_G = 1.35$$

$$\gamma_Q = 1.50$$

$$\psi_2 = 0.30$$

$$q = \gamma_G \times G_k + \gamma_Q \times Q_k = 15.6 \text{ kN/m}^2$$

$$q_{SLS} = 1.0 \times G_k + \psi_2 \times Q_k = 7.5 \text{ kN/m}^2$$

C25/30

$$f_{ck} = 25 \text{ N/mm}^2$$

$$\gamma_C = 1.50$$

$$\alpha_{cc} = 1.00$$

$$f_{cd} = 16.7 \text{ N/mm}^2$$

$$f_{ctm} = 0.30 \text{ N/mm}^2 \times (f_{ck} / 1 \text{ N/mm}^2)^{2/3} = 2.6 \text{ N/mm}^2$$

$$d_g = 20 \text{ mm}$$

$$f_{yk} = 500 \text{ N/mm}^2$$

$$\gamma_S = 1.15$$

$$f_{yd} = f_{yk} / \gamma_S = 434.8 \text{ N/mm}^2$$

$$c_{nom,t} = 30 \text{ mm}$$

$$c_{nom,b} = 30 \text{ mm}$$

$$R_{top} = 60 \text{ min}$$

$$R_{btm} = 60 \text{ min}$$

$$a_{fi,t} = 10 \text{ mm}$$

$$a_{fi,b} = 10 \text{ mm}$$

$$c_{min,b,t} = 16 \text{ mm}$$

$$c_{min,b,b} = 16 \text{ mm}$$

Not subject to QA system

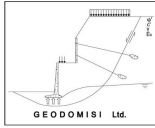
$$\Delta C_{dev} = 10 \text{ mm}$$

$$c_{nom,t,min} = 26.0 \text{ mm}$$

$$c_{nom,b,min} = 26.0 \text{ mm}$$

PASS - There is sufficient cover to the top reinforcement

PASS - There is sufficient cover to the bottom reinforcement



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Section Civil & Geotechnical Engineering		Sheet no./rev. 1	
Calc. by Dr. C. Sachpazis	Date 13/05/2014	Chk'd by	Date
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Reinforcement design at midspan in short span direction (cl.6.1)

Bending moment coefficient;	$\beta_{sx_p} = 0.0445$
Design bending moment;	$M_{x_p} = \beta_{sx_p} \times q \times l_x^2 = 44.4 \text{ kNm/m}$
Reinforcement provided;	16 mm dia. bars at 200 mm centres
Area provided;	$A_{sx_p} = 1005 \text{ mm}^2/\text{m}$
Effective depth to tension reinforcement;	$d_{x_p} = h - c_{nom_b} - \phi_{x_p} / 2 = 187.0 \text{ mm}$
K factor;	$K = M_{x_p} / (b \times d_{x_p}^2 \times f_{ck}) = 0.051$
Redistribution ratio;	$\delta = 1.0$
K' factor;	$K' = 0.598 \times \delta - 0.18 \times \delta^2 - 0.21 = 0.208$
	$K < K'$ - Compression reinforcement is not required
Lever arm;	$z = \min(0.95 \times d_{x_p}, d_{x_p}/2 \times (1 + (1 - 3.53 \times K)^{0.5})) =$
177.7 mm	
Area of reinforcement required for bending;	$A_{sx_p_m} = M_{x_p} / (f_{yd} \times z) = 575 \text{ mm}^2/\text{m}$
Minimum area of reinforcement required;	$A_{sx_p_min} = \max(0.26 \times (f_{ctm}/f_{yk}) \times b \times d_{x_p},$
$0.0013 \times b \times d_{x_p}) = 249 \text{ mm}^2/\text{m}$	
Area of reinforcement required;	$A_{sx_p_req} = \max(A_{sx_p_m}, A_{sx_p_min}) = 575 \text{ mm}^2/\text{m}$

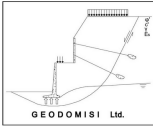
PASS - Area of reinforcement provided exceeds area required

Check reinforcement spacing

Reinforcement service stress;	$\sigma_{sx_p} = (f_{yk} / \gamma_s) \times \min((A_{sx_p_m}/A_{sx_p}), 1.0) \times q_{SLS} / q$
= 119.6 N/mm²	
Maximum allowable spacing (Table 7.3N);	$s_{max_x_p} = 300 \text{ mm}$
Actual bar spacing;	$s_{x_p} = 200 \text{ mm}$
	PASS - The reinforcement spacing is acceptable

Reinforcement design at midspan in long span direction (cl.6.1)

Bending moment coefficient;	$\beta_{sy_p} = 0.0340$
Design bending moment;	$M_{y_p} = \beta_{sy_p} \times q \times l_x^2 = 33.9 \text{ kNm/m}$
Reinforcement provided;	16 mm dia. bars at 250 mm centres
Area provided;	$A_{sy_p} = 804 \text{ mm}^2/\text{m}$
Effective depth to tension reinforcement;	$d_{y_p} = h - c_{nom_b} - \phi_{x_p} - \phi_{y_p} / 2 = 171.0 \text{ mm}$
K factor;	$K = M_{y_p} / (b \times d_{y_p}^2 \times f_{ck}) = 0.046$
Redistribution ratio;	$\delta = 1.0$
K' factor;	$K' = 0.598 \times \delta - 0.18 \times \delta^2 - 0.21 = 0.208$
	$K < K'$ - Compression reinforcement is not required
Lever arm;	$z = \min(0.95 \times d_{y_p}, d_{y_p}/2 \times (1 + (1 - 3.53 \times K)^{0.5})) =$
162.5 mm	
Area of reinforcement required for bending;	$A_{sy_p_m} = M_{y_p} / (f_{yd} \times z) = 481 \text{ mm}^2/\text{m}$
Minimum area of reinforcement required;	$A_{sy_p_min} = \max(0.26 \times (f_{ctm}/f_{yk}) \times b \times d_{y_p},$
$0.0013 \times b \times d_{y_p}) = 228 \text{ mm}^2/\text{m}$	
Area of reinforcement required;	$A_{sy_p_req} = \max(A_{sy_p_m}, A_{sy_p_min}) = 481 \text{ mm}^2/\text{m}$

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PASS - Area of reinforcement provided exceeds area required

Check reinforcement spacing

Reinforcement service stress;
= **124.9 N/mm²**

$$\sigma_{sy_p} = (f_{yk} / \gamma_s) \times \min((A_{sy_p_m} / A_{sy_p}), 1.0) \times q_{SLS} / q$$

Maximum allowable spacing (Table 7.3N);

$$s_{max_y_p} = 300 \text{ mm}$$

Actual bar spacing;

$$s_{y_p} = 250 \text{ mm}$$

PASS - The reinforcement spacing is acceptable

Reinforcement design at continuous support in short span direction (cl.6.1)

Bending moment coefficient;

$$\beta_{sx_n} = 0.0595$$

Design bending moment;

$$M_{x_n} = \beta_{sx_n} \times q \times l_x^2 = 59.4 \text{ kNm/m}$$

Reinforcement provided;

16 mm dia. bars at 200 mm centres

Area provided;

$$A_{sx_n} = 1005 \text{ mm}^2/\text{m}$$

Effective depth to tension reinforcement;

$$d_{x_n} = h - c_{nom_t} - \phi_{x_n} / 2 = 187.0 \text{ mm}$$

K factor;

$$K = M_{x_n} / (b \times d_{x_n}^2 \times f_{ck}) = 0.068$$

Redistribution ratio;

$$\delta = 1.0$$

K' factor;

$$K' = 0.598 \times \delta - 0.18 \times \delta^2 - 0.21 = 0.208$$

K < K' - Compression reinforcement is not required

Lever arm;

$$z = \min(0.95 \times d_{x_n}, d_{x_n} / 2 \times (1 + (1 - 3.53 \times K)^{0.5})) =$$

175.0 mm

Area of reinforcement required for bending;

$$A_{sx_n_m} = M_{x_n} / (f_{yd} \times z) = 781 \text{ mm}^2/\text{m}$$

Minimum area of reinforcement required;

$$A_{sx_n_{min}} = \max(0.26 \times (f_{ctm} / f_{yk}) \times b \times d_{x_n},$$

$0.0013 \times b \times d_{x_n}) = 249 \text{ mm}^2/\text{m}$

$$A_{sx_n_{req}} = \max(A_{sx_n_m}, A_{sx_n_{min}}) = 781 \text{ mm}^2/\text{m}$$

Area of reinforcement required;

PASS - Area of reinforcement provided exceeds area required

Check reinforcement spacing

Reinforcement service stress;
= **162.3 N/mm²**

$$\sigma_{sx_n} = (f_{yk} / \gamma_s) \times \min((A_{sx_n_m} / A_{sx_n}), 1.0) \times q_{SLS} / q$$

Maximum allowable spacing (Table 7.3N);

$$s_{max_x_n} = 297 \text{ mm}$$

Actual bar spacing;

$$s_{x_n} = 200 \text{ mm}$$

PASS - The reinforcement spacing is acceptable

Reinforcement design at continuous support in long span direction (cl.6.1)

Bending moment coefficient;

$$\beta_{sy_n} = 0.0450$$

Design bending moment;

$$M_{y_n} = \beta_{sy_n} \times q \times l_x^2 = 44.9 \text{ kNm/m}$$

Reinforcement provided;

16 mm dia. bars at 200 mm centres

Area provided;

$$A_{sy_n} = 1005 \text{ mm}^2/\text{m}$$

Effective depth to tension reinforcement;

$$d_{y_n} = h - c_{nom_t} - \phi_{x_n} - \phi_{y_n} / 2 = 171.0 \text{ mm}$$

K factor;

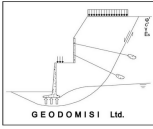
$$K = M_{y_n} / (b \times d_{y_n}^2 \times f_{ck}) = 0.061$$

Redistribution ratio;

$$\delta = 1.0$$

K' factor;

$$K' = 0.598 \times \delta - 0.18 \times \delta^2 - 0.21 = 0.208$$

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	Calc. by Dr. C. Sachpazis	Date 13/05/2014	Chk'd by	Date	App'd by	Date

K < K' - Compression reinforcement is not required

Lever arm; 161.2 mm	$z = \min(0.95 \times d_{y_n}, d_{y_n}/2 \times (1 + (1 - 3.53 \times K)^{0.5})) =$
Area of reinforcement required for bending;	$A_{sy_n_m} = M_{y_n} / (f_{yd} \times z) = \mathbf{641 \text{ mm}^2/m}$
Minimum area of reinforcement required; $0.0013 \times b \times d_{y_n} = \mathbf{228 \text{ mm}^2/m}$	$A_{sy_n_min} = \max(0.26 \times (f_{ctm}/f_{yk}) \times b \times d_{y_n},$
Area of reinforcement required;	$A_{sy_n_req} = \max(A_{sy_n_m}, A_{sy_n_min}) = \mathbf{641 \text{ mm}^2/m}$

PASS - Area of reinforcement provided exceeds area required

Check reinforcement spacing

Reinforcement service stress; = 133.3 N/mm²	$\sigma_{sy_n} = (f_{yk} / \gamma_s) \times \min((A_{sy_n_m}/A_{sy_n}), 1.0) \times q_{SLS} / q$
Maximum allowable spacing (Table 7.3N); Actual bar spacing;	$s_{max_y_n} = \mathbf{300 \text{ mm}}$ $s_{y_n} = \mathbf{200 \text{ mm}}$

PASS - The reinforcement spacing is acceptable

Shear capacity check at short span continuous support

Shear force;	$V_{x_n} = q \times l_x / 2 + M_{x_n} / l_x = \mathbf{69.8 \text{ kN/m}}$
Effective depth factor (cl. 6.2.2);	$k = \min(2.0, 1 + (200 \text{ mm} / d_{x_n})^{0.5}) = \mathbf{2.000}$
Reinforcement ratio;	$\rho_l = \min(0.02, A_{sx_n} / (b \times d_{x_n})) = \mathbf{0.0054}$
Minimum shear resistance (Exp. 6.3N); $b \times d_{x_n}$	$V_{Rd,c_min} = 0.035 \text{ N/mm}^2 \times k^{1.5} \times (f_{ck} / 1 \text{ N/mm}^2)^{0.5} \times$ $V_{Rd,c_min} = \mathbf{92.6 \text{ kN/m}}$
Shear resistance (Exp. 6.2a); $\text{N/mm}^2)^{0.333} \times b \times d_{x_n}$	$V_{Rd,c_x_n} = \max(V_{Rd,c_min}, (0.18 \text{ N/mm}^2 / \gamma_c) \times k \times (100 \times \rho_l \times (f_{ck} / 1$ $V_{Rd,c_x_n} = \mathbf{106.6 \text{ kN/m}}$

PASS - Shear capacity is adequate

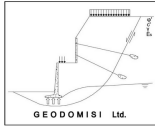
Shear capacity check at long span continuous support

Shear force;	$V_{y_n} = q \times l_x / 2 + M_{y_n} / l_y = \mathbf{67.3 \text{ kN/m}}$
Effective depth factor (cl. 6.2.2);	$k = \min(2.0, 1 + (200 \text{ mm} / d_{y_n})^{0.5}) = \mathbf{2.000}$
Reinforcement ratio;	$\rho_l = \min(0.02, A_{sy_n} / (b \times d_{y_n})) = \mathbf{0.0059}$
Minimum shear resistance (Exp. 6.3N); $b \times d_{y_n}$	$V_{Rd,c_min} = 0.035 \text{ N/mm}^2 \times k^{1.5} \times (f_{ck} / 1 \text{ N/mm}^2)^{0.5} \times$ $V_{Rd,c_min} = \mathbf{84.6 \text{ kN/m}}$
Shear resistance (Exp. 6.2a); $\text{N/mm}^2)^{0.333} \times b \times d_{y_n}$	$V_{Rd,c_y_n} = \max(V_{Rd,c_min}, (0.18 \text{ N/mm}^2 / \gamma_c) \times k \times (100 \times \rho_l \times (f_{ck} / 1$ $V_{Rd,c_y_n} = \mathbf{100.4 \text{ kN/m}}$

PASS - Shear capacity is adequate

Shear capacity check at short span discontinuous support

Shear force;	$V_{x_d} = q \times l_x / 2 = ;\mathbf{62.4}; \text{ kN/m};$
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Reinforcement provided;
 Area provided;
 Effective depth;
 Effective depth factor;
 Reinforcement ratio;
 Minimum shear resistance;
 $b \times d_{x,d}$

8 mm dia. bars at 200 mm centres
 $A_{sx,d} = 251 \text{ mm}^2/\text{m}$
 $d_{x,d} = h - c_{nom,b} - \phi_{x,d} / 2 = ;191.0;$ mm
 $k = \min(2.0, 1 + (200 \text{ mm} / d_{x,d})^{0.5}) = 2.000$
 $\rho_l = \min(0.02, A_{sx,d} / (b \times d_{x,d})) = 0.0013$
 $V_{Rd,c,min} = 0.035 \text{ N/mm}^2 \times k^{1.5} \times (f_{ck} / 1 \text{ N/mm}^2)^{0.5} \times$

Shear resistance;
 $\text{N/mm}^2)^{0.333} \times b \times d_{x,d}$

$$V_{Rd,c,x,d} = \max(V_{Rd,c,min}, 0.18 \text{ N/mm}^2 / \gamma_C \times k \times (100 \times \rho_l \times (f_{ck} / 1$$

$$V_{Rd,c,min} = 94.5 \text{ kN/m}$$

$$V_{Rd,c,x,d} = 94.5 \text{ kN/m}$$

PASS - Shear capacity is adequate (0.660)

Shear capacity check at long span discontinuous support

Shear force;
 Reinforcement provided;
 Area provided;
 Effective depth;
 Effective depth factor;
 Reinforcement ratio;
 Minimum shear resistance;
 $b \times d_{y,d}$

$V_{y,d} = q \times l_x / 2 = ;62.4;$ kN/m;
8 mm dia. bars at 250 mm centres
 $A_{sy,d} = 201 \text{ mm}^2/\text{m}$
 $d_{y,d} = h - c_{nom,b} - \phi_{x,p} - \phi_{y,d} / 2 = ;175.0;$ mm
 $k = \min(2.0, 1 + (200 \text{ mm} / d_{y,d})^{0.5}) = 2.000$
 $\rho_l = \min(0.02, A_{sy,d} / (b \times d_{y,d})) = 0.0011$
 $V_{Rd,c,min} = 0.035 \text{ N/mm}^2 \times k^{1.5} \times (f_{ck} / 1 \text{ N/mm}^2)^{0.5} \times$

Shear resistance;
 $\text{N/mm}^2)^{0.333} \times b \times d_{y,d}$

$$V_{Rd,c,y,d} = \max(V_{Rd,c,min}, 0.18 \text{ N/mm}^2 / \gamma_C \times k \times (100 \times \rho_l \times (f_{ck} / 1$$

$$V_{Rd,c,min} = 86.6 \text{ kN/m}$$

$$V_{Rd,c,y,d} = 86.6 \text{ kN/m}$$

PASS - Shear capacity is adequate (0.720)

Basic span-to-depth deflection ratio check (cl. 7.4.2)

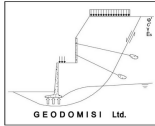
Reference reinforcement ratio;
 Required tension reinforcement ratio;
 Required compression reinforcement ratio;
 Structural system factor (Table 7.4N);
 Basic limit span-to-depth ratio; $\text{ratio}_{lim,x,bas} = K_\delta \times [11 + 1.5 \times (f_{ck} / 1 \text{ N/mm}^2)^{0.5} \times \rho_0 / \rho + 3.2 \times (f_{ck} / 1$
 $\text{N/mm}^2)^{0.5} \times (\rho_0 / \rho - 1)^{1.5}]$
 (Exp. 7.16);
 Mod span-to-depth ratio limit; $\text{ratio}_{lim,x} = \min(40 \times K_\delta, \min(1.5, (500 \text{ N/mm}^2 / f_{yk}) \times (A_{sx,p} / A_{sx,p,m})) \times$
 $\text{ratio}_{lim,x,bas}) = 51.10$
 Actual span-to-eff. depth ratio;

$\rho_0 = (f_{ck} / 1 \text{ N/mm}^2)^{0.5} / 1000 = 0.0050$
 $\rho = \max(0.0035, A_{sx,p,req} / (b \times d_{x,p})) = 0.0035$
 $\rho' = A_{scx,p,req} / (b \times d_{x,p}) = 0.0000$
 $K_\delta = 1.3$

$$\text{ratio}_{lim,x,bas} = 34.06$$

$$\text{ratio}_{act,x} = l_x / d_{x,p} = 42.78$$

PASS - Actual span-to-effective depth ratio is acceptable



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Reinforcement summary

Midspan in short span direction;	16 mm dia. bars at 200 mm centres B1
Midspan in long span direction;	16 mm dia. bars at 250 mm centres B2
Continuous support in short span direction;	16 mm dia. bars at 200 mm centres T1
Continuous support in long span direction;	16 mm dia. bars at 200 mm centres T2
Discontinuous support in short span direction;	8 mm dia. bars at 200 mm centres B1
Discontinuous support in long span direction;	8 mm dia. bars at 250 mm centres B2

Reinforcement sketch

The following sketch is indicative only. Note that additional reinforcement may be required in accordance with clauses 9.2.1.2, 9.2.1.4 and 9.2.1.5 of EN 1992-1-1:2004 to meet detailing rules.

