

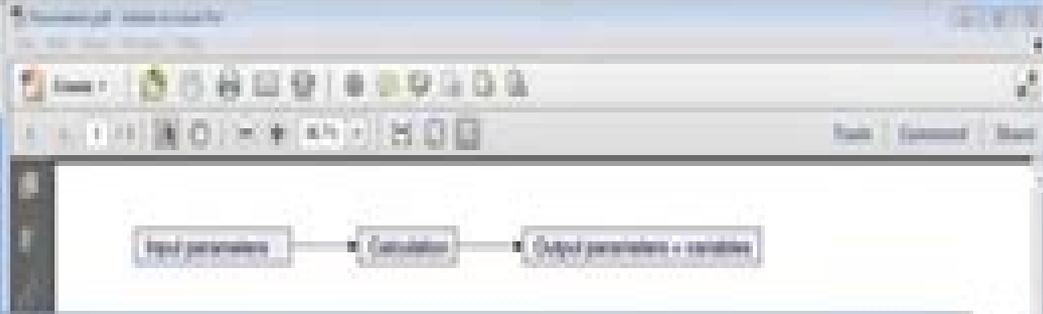
Selected Calculations for RC beam
 (continued) - EN 1992-1-1



- Input parameters**
- $b = 100.00 \text{ cm}$ Width of the cross section
 - $h = 50.00 \text{ cm}$ Height of the cross section
 - $d = 33.00 \text{ cm}$ Effective depth to tension reinforcement
 - $d_c = 1.00 \text{ cm}$ Depth to compression reinforcement
 - $l_{eff} = 5.00 \text{ m}$ Effective span length
 - $A_{s,req} = 5.24 \text{ cm}^2$ Area of tension reinforcement
 - $A_{c,req} = 9.00 \text{ cm}^2$ Area of compression reinforcement
 - $f_{ctk} = 1.00 \text{ MPa}$ Mean value of axial tensile strength of concrete
 - $f_{ctd} = 0.800 \text{ MPa}$ Design modulus of elasticity of concrete
 - $f_{yk} = 200.00 \text{ MPa}$ Design value of modulus of elasticity of reinforcing steel
 - $\gamma_s = 1.00$ Partial value of steel coefficient
 - $\gamma_{s,sl} = 0.90 \%$ Partial value of slurry storage steel
 - $\gamma_{s,sp} = 0.10 \%$ Partial value of slag presence storage steel

- Variable calculation**
- $\alpha_{s1} = 0.75 \text{ MPa}$ Cracking moment
 - $\alpha_{s2} = 0.877 \text{ MPa}$ Effective modulus of elasticity of concrete
 - $\alpha_{s3} = 0.90 \%$ Partial value of storage steel
 - $\alpha_{s4} = 0.00$ Modulus ratio

γ_s	$\gamma_{s,sl}$	$\gamma_{s,sp}$	α_{s1}	α_{s2}	α_{s3}	α_{s4}
1.00	0.90	0.10	0.75	0.877	0.90	0.00



Modul of elasticity **Ratio of modulus**

$$E_{s,eff} = \frac{E_s}{1 + \rho_1}$$

$$\alpha_s = \frac{E_c}{E_{s,eff}}$$

Reinforcement ratios **Virtual moments**

$$\rho = \frac{A_s}{bd} \quad \rho_1 = \frac{A_{s1}}{bd} \quad \rho_2 = \frac{A_{s2}}{bd}$$

$M_1 = M_2 = 0 \quad M_3 = M_4 = L/12$
 $M_5 = M_6 = L/6 \quad M_7 = L/4$

Properties of the uncracked section

$$A_c = \frac{0.5h^2}{d} + \alpha_{s1}\rho_1 + \alpha_{s2}\rho_2 \quad B_c = \frac{h}{d} + \alpha_{s1}\rho_1 + \alpha_{s2}\rho_2 \quad x_1 = \frac{A_s}{B_c}$$

$$I_c = \frac{bh^3}{12} + bh(0.5h - x_1)^2 + \alpha_{s1}^2 A_{s1}(d - x_1)^2 + \alpha_{s2}^2 A_{s2}(x_1 - d_1)^2$$

Engineering Calculations Using Microsoft Excel Skp

Jicheng Xie



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