

CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)



| | | | | | |
|--|---|------------------------|--------------|-------------------------|---------------|
| Select Strength: | $f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$ | Select design ρ : | ρ_{max} | Select Load Case: | $1.2D + 1.4L$ |
| $f_y = 60000$ | $F_y = 4000$ | Design $\rho = 0.0069$ | | Est $w_s [k/ft] = 1.78$ | |
| $\rho_{max} = 0.0033$ | $\rho_{max} = 0.0181$ | Design $R_n = 388.79$ | | $M_u [ft-k] = 227.8$ | |
| $R_n \text{ of } \rho_{max} [psi] = 192.2$ | $R_n \text{ of } \rho_{max} [psi] = 952.0$ | $b_w d^3 = 7813.549$ | | $M_u [ft-k] = 253.2$ | |
| | | $d = 22.10$ | | Density [pcf] 150 | |

Enter Givens & Estimates:

| | | | | | |
|----------------------|--------|--------------------|--------|----------------|--------|
| $w_s [k/ft]$ | 0.55 | $b_w [in]$ | 14 | $b_{eff} [in]$ | 80 |
| $w_s [k/ft]$ | 0.4 | $h [in]$ | 27 | $t [in]$ | 3 |
| Length [ft] | 32 | $d [in]$ | 24 | $a [in]$ | 0.49 |
| Clear Cover [in] | 3 | $A_g [in^2]$ | 2.65 | β_1 | 0.85 |
| Est Self Wt [pcf] | 400 | $A_{g,max} [in^2]$ | 1.214 | $c [in]$ | 0.57 |
| Actual Self Wt [pcf] | 450.00 | $A_{g,max} [in^2]$ | 1.280 | e_1 | 0.1227 |
| | | $\phi M_u [ft-k]$ | 253.36 | | |

Neutral Axis Calculations:

| | | | |
|--------------------|-------|---------------|-------|
| T [kips] | 142.2 | $z [in] =$ | 21.60 |
| $A_g [in^2]$ | 41.8 | $z [in] =$ | 22.50 |
| $A_{g,req} [in^2]$ | 240 | Governing z | 22.50 |

N.A. is in the flange

Select A_s in Tension:

| BAR | Qty | $A_s [in^2]$ |
|-----|-----|--------------|
| #8 | 3 | 2.37 |

If $a < ht$

| | |
|--------------|--------|
| $A_s [in^2]$ | 2.6496 |
|--------------|--------|

| If $a > t$ | |
|--------------------|---------|
| $A_{g,req} [in^2]$ | 10.88 |
| $M_{u,max} [k-ft]$ | 1224.00 |
| $M_{u,req} [k-ft]$ | 996.16 |
| R_n | 1441.20 |
| $\rho_s =$ | 0.03 |
| $a [in]$ | 14.64 |
| $c [in]$ | 17.22 |
| e_1 | 0.00 |
| $A_{g,req} [in^2]$ | 13.27 |
| $A_s [in^2]$ | 24.15 |

Bar Selection:

| BAR | Number of Bars in a Single Layer of Reinforcing | | | | | | | | | | | | | |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| | Area | Width | Area | Width | Area | Width | Area | Width | Area | Width | Area | Width | Area | Width |
| #4 | 0.39 | 6.80 | 0.58 | 8.30 | 0.78 | 9.80 | 0.98 | 11.30 | 1.18 | 12.80 | 1.37 | 14.30 | 1.57 | 15.80 |
| #5 | 0.61 | 6.90 | 0.91 | 8.50 | 1.23 | 10.20 | 1.55 | 11.80 | 1.84 | 13.4 | 2.15 | 15.00 | 2.45 | 16.70 |
| #6 | 0.88 | 7.00 | 1.32 | 8.80 | 1.77 | 10.50 | 2.21 | 12.30 | 2.65 | 14.00 | 3.09 | 15.80 | 3.53 | 17.50 |
| #7 | 1.20 | 7.20 | 1.80 | 9.00 | 2.41 | 10.90 | 3.01 | 12.80 | 3.61 | 14.70 | 4.21 | 16.50 | 4.81 | 18.40 |
| #8 | 1.57 | 7.30 | 2.35 | 9.30 | 3.14 | 11.30 | 3.93 | 13.30 | 4.71 | 15.30 | 5.50 | 17.30 | 6.28 | 19.30 |
| #9 | 2.00 | 7.60 | 3.00 | 9.80 | 4.00 | 12.10 | 5.00 | 14.30 | 6.00 | 16.60 | 7.00 | 18.80 | 8.00 | 21.10 |
| #10 | 2.53 | 7.80 | 3.79 | 10.40 | 5.06 | 12.90 | 6.33 | 15.50 | 7.59 | 18.00 | 8.86 | 20.50 | 10.12 | 23.10 |
| #11 | 3.12 | 8.10 | 4.68 | 10.90 | 6.25 | 13.80 | 7.81 | 16.60 | 9.37 | 19.40 | 10.94 | 22.20 | 12.50 | 25.00 |
| #14 | 4.50 | 8.90 | 6.75 | 12.30 | 9.00 | 15.70 | 11.25 | 19.00 | 13.50 | 22.40 | 15.75 | 25.80 | 18.00 | 29.20 |
| #18 | 8.00 | 10.60 | 12.00 | 14.10 | 16.00 | 19.60 | 20.00 | 24.50 | 24.00 | 28.80 | 28.00 | 35.10 | 32.00 | 37.70 |

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Ed Bott, Woody Leonhard



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Global Advances in Engineering Education J.P. Mohsen, Mohamed Y. Ismail, Hamid R. Parsaei, Waldemar

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