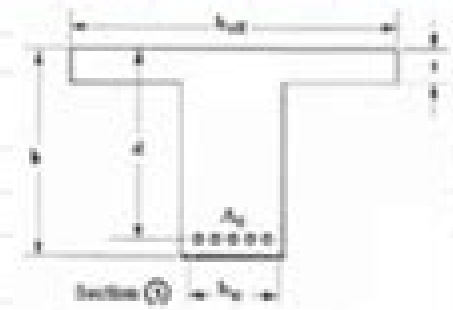


CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)

Select Strength:	$f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$	Select design ρ :	ρ_{max}	Select Load Case:	$1.2D + 1.4L$
$f_y = 60000$	$f_c = 4000$	Design $\rho = 0.0069$		Est $w_s \text{ [k/ft]} = 1.78$	
$\rho_{max} = 0.0033$	$\rho_{max} = 0.0183$	Design $R_n = 388.79$		$M_u \text{ [ft-k]} = 227.8$	
$R_n \text{ at } \rho_{max} \text{ [psi]} = 192.2$	$R_n \text{ at } \rho_{max} \text{ [psi]} = 952.0$	$b d^3 = 7813.549$		$M_u \text{ [ft-k]} = 253.2$	
		$d = 22.10$		Density [pcf] 150	



Enter Givens & Estimates:

$w_s \text{ [k/ft]} 0.55$	$b_w \text{ [in]} 16$	$b_{eff} \text{ [in]} 80$
$w_s \text{ [k/ft]} 0.4$	$h \text{ [in]} 27$	$t \text{ [in]} 3$
Length [ft] 32	$d \text{ [in]} 24$	$a \text{ [in]} 0.49$
Clear Cover [in] 3	$A_g \text{ [in}^2\text{]} 2.65$	$\beta_1 0.85$
Est Self Wt [plf] 400	$A_{g,max} \text{ [in}^2\text{]} 1.214$	$c \text{ [in]} 0.57$
Actual Self Wt [plf] 450.00	$A_{g,max} \text{ [in}^2\text{]} 1.280$	$e_t 0.1227$
	$\phi M_u \text{ [ft-k]} 253.36$	

Neutral Axis Calculations:

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

N.A. is in the flange

Select A_s in Tension:

BAR	Qty	$A_s \text{ [in}^2\text{]}$
#6	3	2.37

If $a < ht$

$A_s \text{ [in}^2\text{]} 2.6496$

If $a > t$	
$A_{g,f} \text{ [in}^2\text{]}$	10.88
$M_{u,f} \text{ [k-ft]}$	1224.00
$M_{u,w} \text{ [k-ft]}$	996.16
R_n	1441.20
$\rho_w = 0.03$	
$a \text{ [in]}$	14.64
$c \text{ [in]}$	17.22
e_t	0.00
$A_{g,w} \text{ [in}^2\text{]}$	13.27
$A_s \text{ [in}^2\text{]}$	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	2.13	15.00	2.43	16.70
#6	0.88	7.00	1.32	8.80	1.77	10.50	2.21	12.50	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	15.10	16.00	19.60	20.00	24.50	24.00	28.60	28.00	33.10	32.00	37.70

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Keith L. Richards, 2013-11-15 The Engineering Council UK have reported an encouraging increase in the applications for Engineering Technician Eng Tech registration both from applicants following a work based learning program and individuals without formal qualifications but who have verifiable competence through substantial working experiences and self study Design Engineer s Case Studies and Examples has been written for these young engineers The contents have been selected on typical subjects that developing engineers may be expected to cover in their professional career and gives solutions to typical problems that may arise in mechanical design The subjects covered include the following Introduction to stress calculations Basic shaft design Beams under bending Keys and spline strength calculations Columns and struts Gears Material selection Conversions and general tables **The South African Mechanical Engineer** , 1995 *Proceedings American Society for Engineering Education. Conference, 1992* Computers in Education Journal , 1995 **What Every Engineer Should Know About Excel** J. P. Holman, Blake K. Holman, 2006-06-09

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