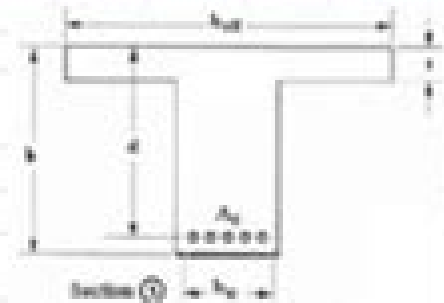


CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)



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 of ρ_{max} [psi] = 192.2	R_n of ρ_{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_s [in ²]	2.65	β_1	0.85
Est Self Wt [pcf]	400	$A_{s,max}$ [in ²]	1.214	c [in]	0.57
Actual Self Wt [pcf]	450.00	$A_{s,max}$ [in ²]	1.280	e_s	0.1227
		ϕM_u [ft-k]	253.36		

Neutral Axis Calculations:

T [kips]	142.2	z [in] =	21.60
A_s [in ²]	41.8	z [in] =	22.50
$A_{s,req}$ [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 $a > t$	
$A_{s,req}$ [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_s	0.00
$A_{s,req}$ [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	33.10	32.00	37.70

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2015 mm 79 3 in

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standards or other requirements 2 1 1 emergency stop button the emergency stop button is in the out position

for normal engine operation push the emergency stop button the engine will not start when the button is locked

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