

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

$A_c = 6.0 \text{ m}^2$ $f_y = 49,000 \text{ psi}$ $E_s = 29,000,000 \text{ psi}$ $n = \frac{29,000,000}{3,600,000} = 8$	$A_c = 16 \times 20 = 320 \text{ m}^2$ $R_c = 320 \times 4 = 1280 \text{ m}^2$ $E_c = 3,600,000$	
a) $f_c = 1200 \text{ psi}, f_y = 49,000 \text{ psi}$ $P = 1200(314 + 8 \times 6) = 434,000 \text{ lbs}$ $P_c = 1200(8 \times 6) = 57,600 \text{ lbs}$ $P_s = 13.5\% \text{ of } P$	a) $f_y = 60,000 \text{ psi}$ $E_s = 29,000,000$ $n = 0.00110$ for a low loading $f_c = 3000 \text{ psi}$ $P = 3000(314) + 49,000(8) = 1,182,000 \text{ lbs}$ $P_c = 49,000(8) = 392,000 \text{ lb}$ $P_s = 20.3\% \text{ of } P$	$E_c = 3,600,000$ $n = 0.00207$ $f_c = 3300 \text{ psi}$ $P = 3300(314) + 60,000(8) = 1,344,000 \text{ lbs}$ $P_c = 60,000(8) = 480,000 \text{ lb}$ $P_s = 25.6\% \text{ of } P$
c) $f_c = 3000 \text{ psi}$ $P_u = 3000(314) + 49,000(8) = 1,308,000 \text{ lb}$ $P_c = 240,000 \text{ lb} (18.3\% P)$	$P_u = 3400(314) + 60,000(8) = 1,428,000 \text{ lb}$ $P_c = 360,000 \text{ lb} (25.2\% P)$	

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Comments:
 1. There is no difference in performance at $f_c = 1200 \text{ psi}$
 2. As the strain increases, the steel with $f_y = 60,000 \text{ psi}$ contributes more to the total load and the column has a higher total load.
 3. For the same $f_y = 49,000 \text{ psi}$ provides a 9% increase in capacity.