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Fundamentals of Reinforced Concrete N C Sinha & S.K. Roy. ISBN : 9788121901277 Pages : 1168 Binding : Paperback Language : English ...

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## CONCRETE BASICS A Guide to Concrete Practice

$n = \frac{f_y}{f_c'} = \frac{60 \text{ ksi}}{5 \text{ ksi}} = 12$   
 $M_u = 0.59 f_y b d^2 = 0.59 (60 \text{ ksi}) (12 \text{ in}) (22.2 \text{ in})^2 = 6409 \text{ in.kips}$   
Moment which must be resisted by additional compression and tension reinforcement Assuming compression steel yields we will have:  
 $M_u = \phi A_s f_y (d - d') = 0.9 A_s (60) (22.2 - 2.5) = 1063.8 A_s$   
 $6409 = 1063.8 A_s \rightarrow A_s = 6026.3 \text{ in}^2$

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## Chapter 6. Compression Reinforcement - Flexural Members

The equation for this is:  $W_{agg} = M_{agg} / (C_{agg} - A_{agg})$  Add water = free-water shown on the mix design - aggregate free-water. For example, consider a concrete mix design that calls for 282-pounds of water (i.e. free- water) and contains 1100 pounds of fine aggregate and 2000 pounds of coarse aggregate.

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