

5.1. For the beam cross-section shown in Fig. 5.33 determine whether the failure of the beam will be initiated by crushing of concrete or yielding of steel. Given:

$$f'_c = 3000 \text{ psi (20.7 MPa) for case (a), } A_s = 1 \text{ in.}^2$$

$$f'_c = 6000 \text{ psi (41.4 MPa) for case (b), } A_s = 6 \text{ in.}^2$$

$$f_y = 60,000 \text{ psi (414 MPa)}$$

Also determine whether the section satisfies ACI Code requirements.

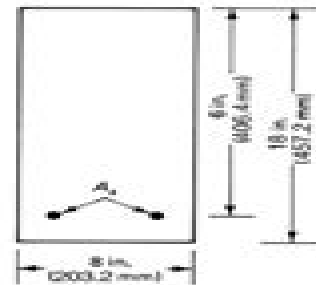


Figure 5.33

Solution:

(a) The following information is given:

$b$	$=$	8 in.	section width
$d$	$=$	18 in.	section depth
$d_r$	$=$	16 in.	depth to reinforcement
$f'_c$	$=$	3000 psi	required compression strength
$f_y$	$=$	60,000 psi	steel strength
$A_s$	$=$	1 in. <sup>2</sup>	steel area

First, determine the value for  $\beta_1$  using equation 5.9.

$$\beta_1 = 0.85 \quad (2500 < f'_c \leq 4000)$$

Then calculate the depth of the compression block.

$$\begin{aligned} a &= \frac{A_s f_y}{0.85 f'_c b} \\ &= \frac{(1)(60,000)}{0.85(3000)(8)} \\ &= 2.94 \text{ in} \end{aligned}$$

# Nawy Solutions Manual

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the American Concrete Institute text.

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