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### 3.1 Steel Strength

$$N_{sa} = A_{se,N} f_{uta} \quad \text{ACI 318-19 Eq. (17.6.1.2)}$$

$$\phi N_{sa} \geq N_{ua} \quad \text{ACI 318-19 Table 17.5.2}$$

#### Variables

$A_{se,N}$ [in. <sup>2</sup> ]	$f_{uta}$ [psi]
1.41	125,001

#### Calculations

$N_{sa}$ [lb]
176,250

#### Results

$N_{sa}$ [lb]	$\phi_{\text{steel}}$	$\phi N_{sa}$ [lb]	$N_{ua}$ [lb]
176,250	<b>1.200</b>	211,500	175,391