

$$\frac{F_{cs}}{F_{cr}E} = Ce\left(\frac{b'}{E}\right)^{0.75} - 0$$

$$\frac{b'}{E} = \frac{a+b}{2E}$$

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$$\frac{b'}{E} = \left(\frac{2.5 - 0.125}{2}\right) * 2 \times 10^{\frac{2}{3}}$$

$$\frac{a+0.125 \times 10^{\frac{2}{3}}}{2} - 2$$

Fcs = 
$$Ce \left(\frac{b^{1}}{t}\right)^{0.75}$$

=  $\sqrt{268 \times 10^{6} \times 75 \times 10^{9}} \times 0.366 \times \left(\frac{2.5 - 0.12.5}{a}\right)^{0.75}$ 

=  $\sqrt{268 \times 10^{6} \times 75 \times 10^{9}} \times 0.366 \times \left(\frac{2.5 - 0.12.5}{a}\right)^{0.725}$ 

Ce =  $0.366 \times 9.27 \times \sqrt{2.16 \times 10^{11}}$ 

Chippling load of Section (1)

Pcs =  $\sqrt{1.57 \times 10^{10}} \times \sqrt{2.3 \times 10^{14}}$ 
 $\sqrt{1.57 \times 10^{10}} \times \sqrt{2.57 \times 10^{14}}$ 
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$$\frac{F_{cs}}{F_{ct}E} = C_{e} \left(\frac{b^{1}}{E}\right)^{0.75} - 0$$

$$\frac{a}{b} = 2.5 - 0.125$$

$$\frac{b^{1}}{E} = \frac{a+b}{2E}$$

$$\frac{b^{1}}{E} = \left(\frac{2.5 - 0.125}{2}\right) \times 2 \times 10^{4}$$

$$\frac{a}{E} = \frac{2.5 - 0.125}{2} \times 2 \times 10^{4}$$

$$\frac{a}{E} = \frac{a+b}{2} = \frac{a+b}{2} = \frac{a+b}{2}$$