



$$N_P = 2a^2 \sigma_c$$

$$R = \frac{2a}{2} a \sigma_c$$

$$M_P = a \cdot R = a^3 \sigma_c$$

$$PL = a^3 \sigma_c \Rightarrow P = \frac{a^3 \sigma_c}{L}$$

$$a) \quad P_c = \min \left\{ \frac{a^3 \sigma_c}{L}, 2a^2 \sigma_c \right\}$$

$$b) \quad \frac{P_c}{2a^2 \sigma_c} + \frac{P_c \cdot L}{a^3 \sigma_c} = 1 \Rightarrow P_c = \frac{2a^3 \sigma_c}{a + 2L} \leq \min \left\{ \frac{a^3 \sigma_c}{L}, 2a^2 \sigma_c \right\}$$

