



$$\max R_{At} = 50 \left(\frac{16+a}{16}, \frac{16+a}{2} \right) - 20 \left[\frac{4 \cdot 0,25}{2} \right] + 2P \left(\frac{16+a}{16} \right) + P \left(\frac{16+a}{16} \right)$$

$$'' \leq 600$$

$$a \leq 3,30 \text{ m}$$

$$\min M_{s1} = 50 \cdot \frac{a^2}{2} + 2Pa + P(a-2) \leq 300$$

$$a \leq 3,107 \text{ m}$$

$$\max M_{s2} = 50 \left(\frac{4 \cdot 16}{2} \right) - 20 \left(\frac{0,5a^2}{2} + \frac{2 \cdot 4}{2} \right) + 2P \cdot 4 + P \cdot 3 \leq 1,600 \rightarrow a \geq 1,265 \text{ m}$$

$$1,265 \leq a \leq 3,107 \text{ (m)}$$