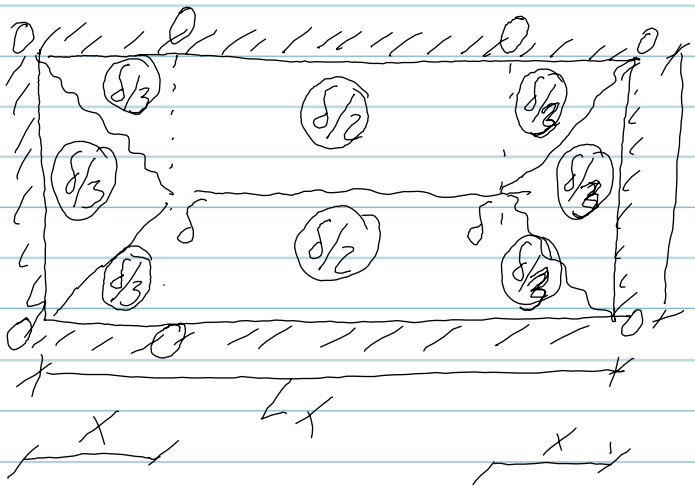
DTU, Betonkonstruktioner



pr. fælt

$$A_y = \int p \cdot v \cdot dA = p\left(\frac{\delta}{3}\right) \cdot x \cdot L_y \cdot 2 + p\left(\frac{\delta}{2}\right)(L_x - 2x) L_y$$

$$= p\delta\left(\frac{2}{3} x L_y + \frac{1}{2}(L_x - 2x) \cdot L_y\right)$$

$$A_i = A_y \Rightarrow$$

$$p\delta\left(\frac{2}{3} x L_y + \frac{1}{2}(L_x - 2x) \cdot L_y\right)$$

$$= m_u \cdot \delta\left(\frac{2L_y}{x} + \frac{4L_x}{L_y}\right)$$

$$\Leftrightarrow$$

$$p^{(+)} = m_u \cdot \frac{\left(\frac{2L_y}{x} + \frac{4L_x}{L_y}\right)}{\left(\frac{2}{3} x L_y + \frac{1}{2}(L_x - 2x) \cdot L_y\right)}$$

ved $x = L_y/2 \Rightarrow$

$$p^{(+)} = m_u \cdot \frac{24\left(1 + L_x/L_y\right)}{L_y(3L_x - L_y)} \qquad L_x \geq L_y$$