$$q = \left(\frac{V}{X_2 - X_1} \right)$$

for non-yielding walls:

$$\Delta P_{HZ} = \frac{2q}{\pi} \left(\beta - \sin\beta \ \cos 2\alpha \right)$$

for yielding walls,
(walls at failure):

$$\Delta P_{HZ} = \frac{q}{\pi} \left(\beta - \sin\beta \ \cos 2\alpha \right)$$

β in radians

$$\beta = \tan^{-1}\left(\frac{X_2}{z} \right) - \tan^{-1}\left(\frac{X_1}{z} \right)$$

$$\alpha = \tan^{-1}\left(\frac{X_2 + X_1}{2z} \right)$$

Figure 3-27.   Increase in pressure due to strip load