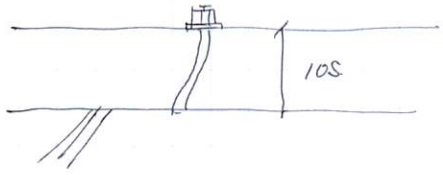

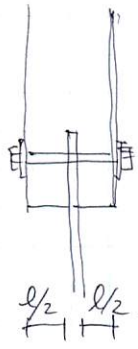

二面せん断
鋼板挿入

モード I　$c = 1$

モード III　$c = \sqrt{2 + \frac{8}{3}\gamma\left(\frac{d}{\ell}\right)^2} - 1$

モード IV　$c = \frac{d}{\ell}\sqrt{\frac{8}{3}\gamma}$

$$\gamma = \frac{F}{Fe}$$

$Fe = 23.4\,N/mm^2$, $F = 235\,N/mm^2$. $l/2 = 105$. $d = 16$

$$\rightarrow \quad c = \begin{cases} \dfrac{1.0}{\sqrt{2 + 8/3 \cdot \frac{235}{23.4} \cdot \left(\frac{12}{105\times 2}\right)^2}} - 1 = 0.4448 \\ \dfrac{12}{105\times 2}\sqrt{\dfrac{8}{3}\dfrac{235}{23.4}} = 0.2957 \end{cases}$$

$\therefore$ $P_y = cFedl = 0.2957 \cdot 23.4 \cdot 12 \cdot 105 \cdot 2 = 17.43\,kN$

$\therefore$ $P_y/2 = 8.72\,kN$.

$\therefore$