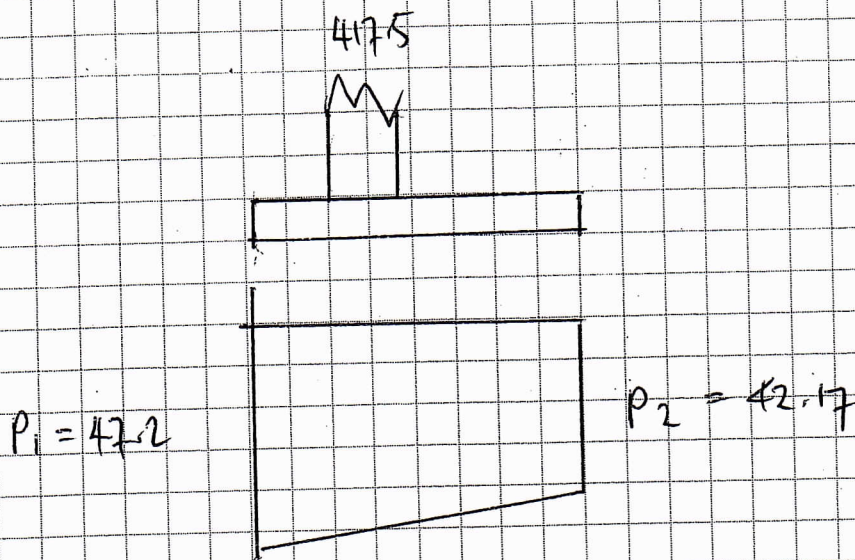




$$\text{Average pressure on u/s of base} = \frac{85.69}{1.9175} = 44.68 \text{ kN/m}^2$$

$$\text{B.M. (max)} = 1.2 \times 44.68 \times \frac{1.2}{2} = 32.17 \text{ kNm}$$

Take cover = 50mm

$$\frac{M}{bd^2} = \frac{32.17 \times 10^6}{10^3 \times 250^2} = 0.515$$

$$\text{From design charts } \frac{100 A_s}{bd} = 0.14$$

$$\therefore A_s = \frac{0.14 \times 10^3 \times 250}{100} = 350 \text{ mm}^2/\text{m}$$

$\therefore$ use A393 Mern reft to base. (2 layers + db).