

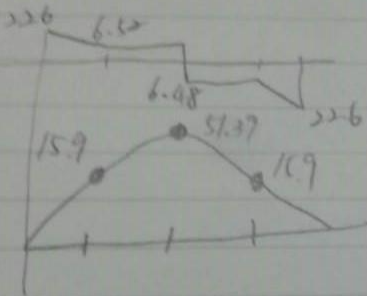
4A32089 ~~7.14~~

$$6.67 \times \frac{9.75}{4} = 16.08$$

$$\sum MA = 0$$

$$16.08 \times \frac{2.25}{8} + 13 \times \frac{9.75}{2} + 16.08 \times \frac{7}{8} \times 9.75 = 9.75 RB$$

$$19.6 + 63.4 + 139.2 = 9.75 RB \quad RB = 22.6 kN$$



$$(22.6 + 63.4) \times \frac{9.75}{8} = 35.49$$

$$6.52 \times \frac{9.75}{4} = 15.9$$

$$35.49 + 15.9 = 51.39$$

$$S = \frac{51.39 \times 1000 \times 1000}{124} = 414355 \text{ mm}^3$$

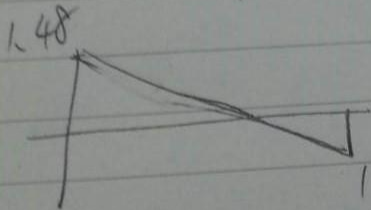
$$S = 280 \text{ cm}^3 \quad W = 31.1 \frac{\text{kg}}{\text{m}} \times 9.8 = 904.98 \frac{\text{N}}{\text{m}} = 0.304 \frac{\text{N}}{\text{mm}}$$

$$16.08 \times \frac{9.75}{8} + 13 \times \frac{9.75}{2} + 0.304 \times \frac{9.75}{2} + 16.08 \times \frac{7}{8} \times 9.75 = 9.75 RB$$

$$19.6 + 63.4 + 1.48 + 139.2 = 9.75 RB$$

$$RB = RA = 22.73 kN$$

$$P = 0.304 \times 9.75 = 2.96 kN$$



$$1.48 \times \frac{9.75}{4} = 3.6$$

$$M_{max} = 51.39 + 3.6 = 54.99 kN.m$$

$$S = \frac{54.99 \times 1000^2}{124} = 443462.91 \text{ mm}^3$$

$$= 443.46 \text{ cm}^3$$

$$443.46 > 279$$