



### Past Board Exams

Situation 1: Prestressed hollow core slabs with typical section shown in the figure are used for the flooring of a library.



Properties of the slab are as follows:

$$A = 1.4 \times 10^3 \text{ mm}^2$$

$$S_t = S_b = 6.8 \times 10^6 \text{ mm}^3$$

$$a = 1.2 \text{ m}$$

$$b = 288 \text{ mm}$$

The slab is prestressed with 820 kN force at an eccentricity  $e = 63 \text{ mm}$  below the neutral axis of the section.

Slab weight = 2.7 kPa

Super imposed (DL) = 2.8 kPa

Live load = 2.9 kPa

The slab is simply supported on a span of 8m. Allowable stresses at service loads are 2.0 MPa in tension and 15.5 MPa in compression. Consider 15% loss of prestressed at service loads.

- Compute the stress at the top fibers of the slab at the ends due to that initial prestress force.
- Determine the resulting stress at the top fibers of the slab at midspan due to the loads and pre stress force.
- Determine the maximum total load (kN/m) including its own weight, that the slab can be subjected to if the allowable stress at service loads are not to be exceeded.

Solution:

- Compute the stress at the top fibers of the slab at the ends due to that initial prestress force.

$$\begin{aligned} f_t &= -\frac{P}{A} + \frac{M}{S} \\ f_t &= -\frac{820000}{1.4 \times 10^3} + \frac{820000(63)}{6.8 \times 10^6} \\ f_t &= +1.24 \text{ MPa (tension)} \end{aligned}$$

- Determine the resulting stress at the top fibers of the slab at midspan due to the loads and pre stress force.

$$LL = 2.9(1.2) = 3.48 \text{ kN/m}$$

$$\text{Slab weight} = 2.7(1.2) = 3.24 \text{ kN/m}$$

$$\text{Super imposed load} = 2(1.2) = 2.4 \text{ kN/m}$$

$$\text{Total load} = 3.48 + 3.24 + 2.4 = 9.12 \text{ kN/m}$$

$$M = \frac{WL^2}{8} = \frac{9.12(8)^2}{8} = 72.96 \times 10^6 \text{ N.mm}$$

$$f_t = -\frac{P}{A} + \frac{P_e C}{I} - \frac{MC}{I}$$

$$f_t = -\frac{P}{A} + \frac{Pe}{S_t} - \frac{M}{S_t}$$

$$P = 820(0.85)$$

$$P = 697 \text{ kN (after loss of stress)}$$

$$\begin{aligned} f_t &= -\frac{697000}{1.4 \times 10^3} + \frac{697000(63)}{6.8 \times 10^6} - \frac{72.96 \times 10^6}{6.8 \times 10^6} \\ f_t &= -4.98 + 6.45 - 10.73 \\ f_t &= -9.25 \text{ MPa (compression)} \end{aligned}$$

# Abr Board Exam 2014

**L Darling-Hammond**



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