



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:

$$\begin{aligned}A &= 1.4 \times 10^3 \text{ mm}^2 \\S_t &= S_c = 6.8 \times 10^5 \text{ mm}^3 \\a &= 1.2 \text{ m} \\b &= 208 \text{ mm}\end{aligned}$$

The slab is prestressed with 828 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 2.8 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.

$$\begin{aligned}\frac{\epsilon}{\epsilon_0} &= \frac{P_e}{A} + \frac{M}{S} \\&= \frac{820000}{1.4 \times 10^3} + \frac{820000(63)}{6.8 \times 10^5} \\&= -1.24 \text{ MPa (tension)}$$

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

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

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

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

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

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

$$\frac{\epsilon}{\epsilon_0} = \frac{P_e}{A} + \frac{P_e C}{I} - \frac{MC}{I}$$

$$\frac{\epsilon}{\epsilon_0} = \frac{P_e}{A} - \frac{P_e}{S_t} \cdot \frac{M}{S_t}$$

$$P_e = 820(0.85)$$

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

$$\begin{aligned}\frac{\epsilon}{\epsilon_0} &= \frac{697000}{1.4 \times 10^3} - \frac{697000(63)}{6.8 \times 10^5} - \frac{72.96 \times 10^6}{6.8 \times 10^5} \\&= -4.98 + 6.46 - 10.73 \\&= -9.25 \text{ MPa (compression)}$$

Abr Board Exam 2014

L Darling-Hammond

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