

Slab F-90 Manual Calculation

Considering S1 (One-Way, One End Continuous)

$$l_n = 3.0\text{ m} = \frac{0.375}{2} - \frac{0.500}{2} = 2.56\text{ m}$$

$$t = \frac{l_n}{24} * \left(0.4 + \frac{f_y}{7700} \right) = \frac{l_n}{24} \left(0.4 + \frac{276}{700} \right) = 84.72\text{ mm}$$

Hence, Use $t = 100\text{ mm}$

$$d = t - cc - \frac{db}{2}$$

$$d = 100 - 20 - \frac{12}{2} = 74\text{ mm}$$

Live Load: 6 kPa

Superimposed Dead Load: 5.72 kPa

$$W_L = 6(1) = 6\text{ kN/m}$$

$$W_{sd} = 5.72(1) = 5.72\text{ kN/m}$$

$$W_{sw} = Y_{ct}(1\text{ m}) = 24(0.1)(1) = 2.40\text{ kN/m}$$

$$W_u = 1.2(5.72 + 2.40) + 1.6(6) = 19.34\text{ kN/m}$$

$$C = \frac{1}{12} = 0.008 \text{ (at support)}$$

$$C = \frac{1}{14} = 0.007 \text{ (at midspan)}$$

$$M_u = C w L_n^2$$

Main Bar at Support:

$$M_u = 0.08 [19.34] [2.56]^2 = 10.59\text{ kN-m}$$

$$R_n = \frac{M_u \times 10^6}{\phi b d} = \frac{10.59 \times 10^6}{0.9 [1000] [74]} = 604.48\text{ mm}^2$$

$$A_{s_{min}} = k b t = 0.0020 [1000] [100] = 200\text{ mm}^2$$

$$S = b \left(\frac{ab}{A_s} \right) = 1000 \left(\frac{\pi (12)^2}{4 \times 604.46} \right) = 187.10\text{ mm say } 180\text{ mm}$$

s_{max} (Least of):

$$450$$

$$3t = 3 \times 100 = 300$$

Hence, the spacing to be used for S1 (support) on the second floor is 180 mm.

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Edward Wyndham Tarn



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