



It is required to draw the structural plan to scale 1:100 and to calculate:

1- The ultimate design loads for all marked beams in the floor

2- Draw S.F.D and B.M.D

Assuming that:

$t_s = 140 \text{ mm}$

$t = 600 \text{ mm}$

$L.L = 2 \text{ kN/m}^2$

Wt of cover $FC = 1.5 \text{ kN/m}^2$

Floor height = 3.0 m

Density of brick = 14 kN/m³

