5 G_2 $18KN/m^3$

G = + +

$W=15$ L_0

W G / F_f 15 A L_0 10 A 18 1.5 / 10 A h_w K

L_0 $\frac{1.05 \quad 10 \quad 13.8 \quad 3 \quad 10 \quad 0.5 \quad 25 \quad 18 \quad 1.5}{15}$ 5.02m

L_0=5.5m

2

36mm 1080 1.8m×1.8m

Ra=450kN

2m 5.5m(3.5);

110mm 110mm 180mm

III

1

3.5m N_{t1k} $_{mck}$ $_a$=0.001×3.14×110×0.3×10^3×1.0×3.5=362.7KN

2.0m N_{t1k} $_{mck}$ $_a$=0.001×3.14×110×0.4×10^3×1.0×2.0=276.3KN

2

N_{t2k} $_l$ $_r$ $_l f_{rk} A_{ln}$ =2.6×3×4.24×10^3×15935×10^{-6}=527KN

A_{ln}- A_{ln} $(\frac{180}{2})^2$ $(\frac{110}{2})^2$ 15935mm^2

3

$K_r N_{tk}$ $_{tk1}$ + N_{tk2}= 362.7+276.3+527=1166kN

N_{tk} =1166/2=583kN

A_s- $A_{s(36)}$=1017mm^2