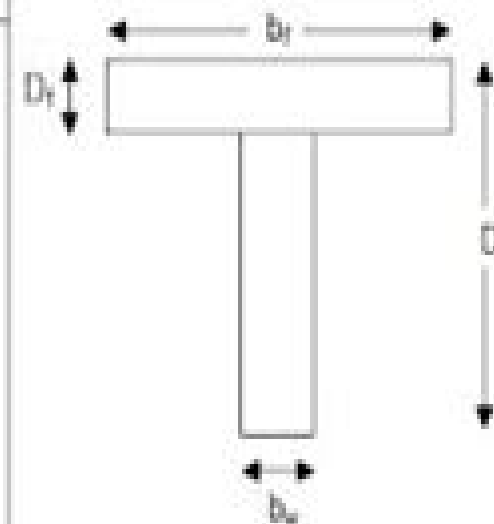


Grid Floor Analysis & Design

Data	x direction	y direction
Length of beams	$L_x = 12.00$ meters	$L_y = 12.00$ meters
Number of beams	$N_x = 8$ nos	$N_y = 8$ nos
Spacing of ribs	$a_1 = 1.50$ meters	$b_1 = 1.50$ meters
Depth of beam	$D = 620$ mm	
Width of beam	$b_w = 200$ mm	
Width of flange	$b_f = 1500$ mm	
Thickness of flange	$D_f = 110$ mm	
Grade of Concrete	$f_{ck} = 20$ MPa	
Grade of Steel	$f_y = 415$ MPa	



Modulus of Elasticity

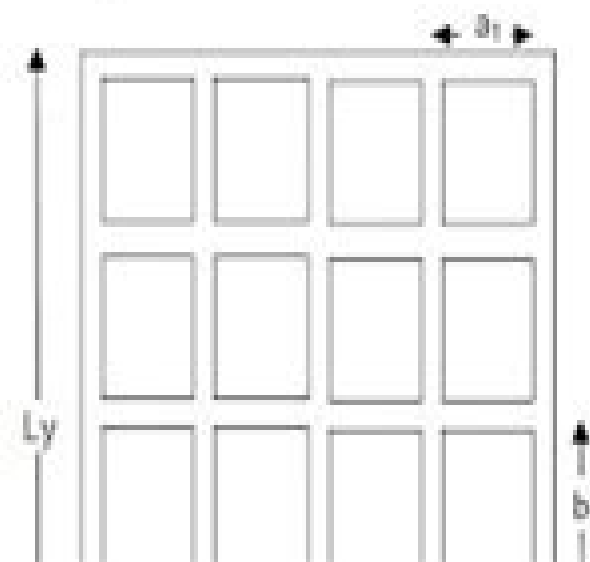
$$E = 2.2E+07 \text{ KN/sqm}$$

Loads

Live Load	3.00 KN
Floor Finish	1.00 KN
Other	0.00 KN

Loading Calculation

Total weight of slab	$w_s = 396.00$ KN
Total weight of beams in x direction	$w_{bx} = 297.60$ KN



Manual Design Of Grid Slab

**Charles E. Reynolds, James C.
Steedman, Anthony J. Threlfall**



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