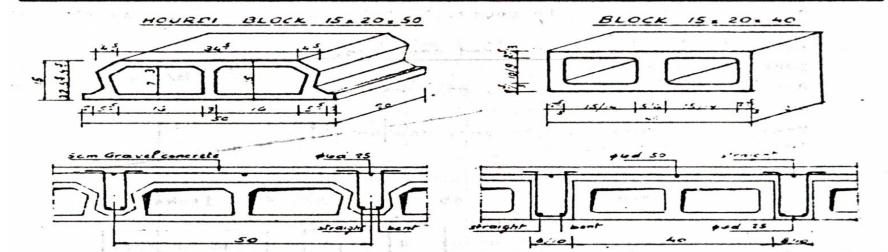
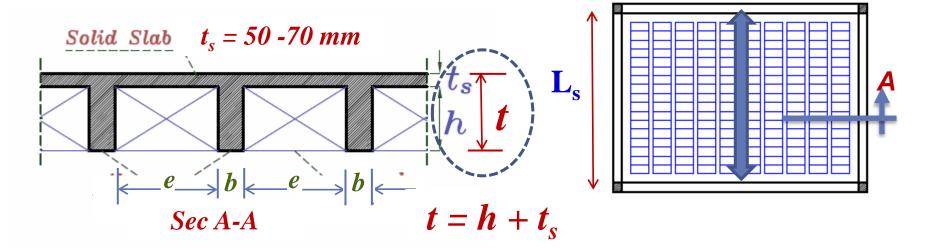
System Type	Max Span	Max Area		
Solid Slab	5-6 m	$30 \text{ m}^2$		
Flat Slab	7-9 m	$80 \text{ m}^2$		
Hollow Block Slab	8-10 m	$100 \text{ m}^2$		
Paneled Beams	15-20	$200 \text{ m}^2$		

GENERAL DATA

Dimentions of Blocks in cms.	Materials required/m <sup>2</sup>			Dead loads kg/ m <sup>2</sup>				
	No. of Blo-		Concrete		poncit		Hagarit	
	1 way	2 way	1 way	2 way	1 way	2 way	1 way	2 way
15x20x50	10	8.4	.073	.089	238	270	300	320
15x20x40	10.4	8.7	.075	.096	240	284	303	336
20x20x40	10.4	8.7	.083	.111	265	330	350	380
25x20x40	10	8 .	.100	.140	320	406	410	478
35x20x65	7.7	6.6	.126	.173	445	542	585	660





- 1.  $e \le 700 \, mm$
- 2.  $t_s \ge bigger\ of\ (50\ mm\ or \frac{e}{10})$
- 3.  $b \ge bigger of (100 mm or \frac{t}{3})$

## **Block Width**

**Slab Thickness** 

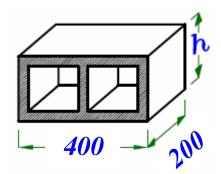
**Rib Width** 

## It is common practice that:

- For blocks 400x200x150 mm or 400x200x200 mm  $t_s = 50 \text{ mm}$  and b = 100 mm
- For blocks 400x200x250 mm t<sub>s</sub> = 70 mm and b = 120 mm

$$t = h + t_s = 250 + 70 = 320 \text{ mm}$$
  
 $b \ge bigger\ of\ (100\ mm\ or\ \frac{320}{3}) = 106.7\ mm$ 

Take b = 120 mm



Typical Block h= 150, 200, 250 mm

Live Load	Span	Cross Rib		
$\leq 3 kN/m^2$	$\leq 5 m$	No cross rib		
$\leq 3 kN/m^2$	> 5 m	One		
$> 3 kN/m^2$	< 4 m	No cross rib		
$> 3 kN/m^2$	$4 \le L \le 7 m$	One		
$> 3 kN/m^2$	> 7 m	Three		



Concrete Blocks		Concrete Blocks		Concrete		Foam Blocks		
400x200x150		400x200x200		400x20		500x400x200		
One	Two	One	Two	One	Two	One	Two	
way	way	way	way	way	way	way	way	
3.03	3.36	3.30	3.80	4.10	4.78	0.70	1.20	