

Hollowcore Slab

Hollowcore Flooring is a Precast Prestressed Concrete Slab with tubular voids which run through the full length of the slab, thereby reducing the weight of the unit. With the benefit of prestressing and low self weight, longer spans can be achieved for the same loads or greater loads for the same depths.



The use of Precast Concrete Hollowcore Flooring is a highly cost effective solution that fits easily into any structural system such as steel or concrete frame or indeed masonry construction. The units themselves are manufactured at a width of 1200mm and depths of 150, 200, 250, 300, 350 and 400mm.

Benefits Of Using Hollowcore Floor Slabs

- Quick installation
- Eliminates on site formwork and steel fixing
- Units can be grouted immediately after installation
- Stable working platform
- High load capacity
- Long spans.
- High levels of inherent fire resistance
- Excellent sound resistance
- Manufactured offsite to rigorous quality standards
- Progress on site is not weather dependant
- Can be designed to incorporate notches, splays, balconies etc.



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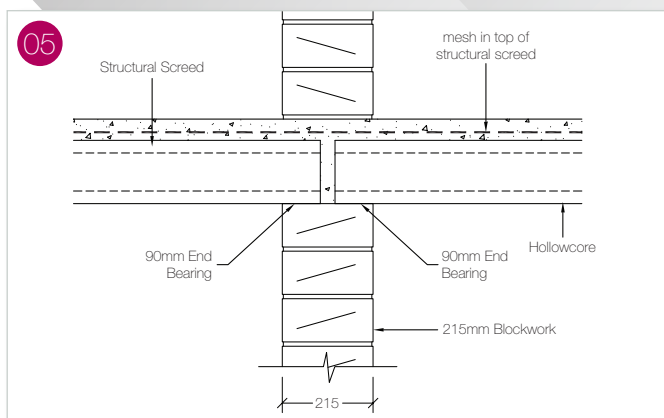
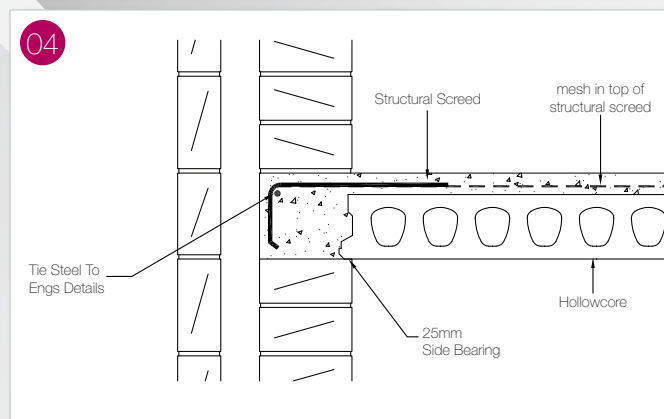
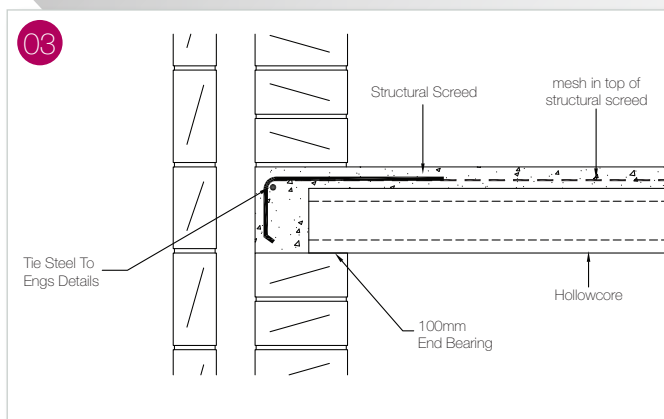
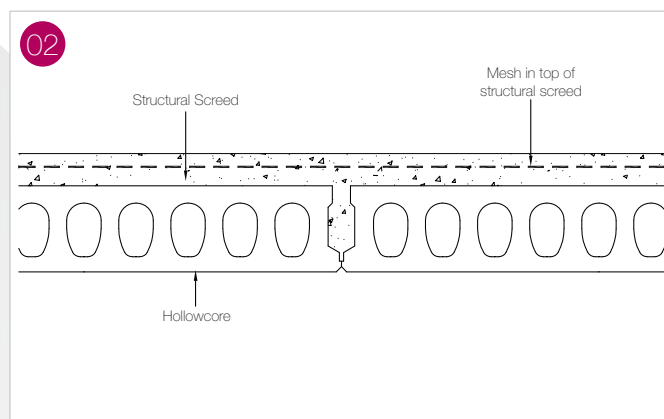
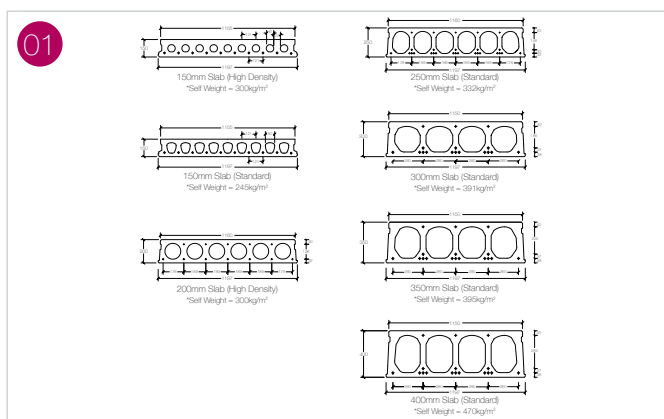
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Hollowcore Slab

01. Hollowcore Section Properties.
02. Typical joint at adjoining hollowcore.
03. Typical end bearing detail.
04. Typical side bearing detail.
05. Typical end bearing detail. 215mm internal blockwall.

SAFE LOAD TABLE FOR HOLLOWCORE

Precast Slab Depth (mm)	Structural Topping Depth (mm)	Total Depth (mm)	Self Weight (kN/sq.mm)	Effective Spans (m)												
				4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m
				Super-Imposed Unfactored Live Load Capacities kN/m²												
150	0	150	3.00	15.50	11.00	7.00	4.50									
200	0	200	3.00	15.50	12.00	10.00	7.50	6.00	4.50							
250	0	250	3.32	22.50	18.00	14.50	11.50	9.50	7.00	5.00	4.00					
300	0	300	3.91			17.00	14.50	12.50	11.00	8.00	6.00	4.50	3.00			
400	0	400	4.70						17.50	15.50	13.50	10.50	8.00	6.50	5.00	4.00
150	75	225	4.80	19.00	15.00	10.50	5.50	2.00								
200	75	275	4.88	14.00	10.50	8.50	6.50	5.50	4.00							
250	75	325	5.20	21.00	16.50	13.00	11.00	9.00	8.00	5.50	3.50					
300	75	375	5.79			15.50	13.00	11.00	9.50	9.00	6.50	4.00	2.50			
400	75	475	6.58						16.50	14.00	12.50	11.00	9.50	7.00	5.00	4.00

Values shown are for guidance. Consult Flood Precast Technical Office regarding specific design queries.

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