

Choice of Hollowcore Floors

The tables shown here and overleaf indicate the design loadings for common particular strand/reinforcement patterns. They are therefore indications of achievable values, other strand/reinforcement patterns are available. Consideration must be given to wall loadings, notches, holes etc.

Slab Profiles

150mm Floor

UngROUTED Weight 240Kg/m²

Grouted Weight 250Kg/m²



150mm Dense Floor

UngROUTED Weight 295Kg/m²

Grouted Weight 305Kg/m²



200mm Floor

UngROUTED Weight 290Kg/m²

Grouted Weight 305Kg/m²



250mm Floor

UngROUTED Weight 340Kg/m²

Grouted Weight 355Kg/m²



Clear Span Meters	Standard 150mm	Dense 150mm	Standard 200mm	Standard 250mm
3.0	33.0	30.8	37.5	39.1
3.5	23.9	22.1	31.5	32.8
4.0	18.0	16.4	26.4	28.9
4.5	13.9	12.5	21.9	24.5
5.0	10.9	9.6	17.4	22.4
5.5	8.7	7.5	14.0	19.0
6.0	7.1	5.9	11.5	17.5
6.5	5.8	4.7	9.5	15.3
7.0	4.7	3.6	7.9	12.8
7.5	3.9	2.8	6.6	10.9
8.0	3.2	2	5.5	9.2
8.5			4.6	7.9
9.0			3.9	6.8
9.5				5.8
10.0				5.0
10.5				4.3
11.0				3.7

Slab Thickness	Ixx	Ult. BM	Ult.. End Shear
(mm)	(mm ⁴)	(kNm)	(kN)
150 Non-Composite	288.59 x 10 ⁶	88	118
150 & 50mm Structural Topping	667.69 x 10 ⁶	130	118
150 Non-Composite	628.98 x 10 ⁶	134	115
Standard Composite & Non Composite Slabs			
150 Non-Composite	1209.15 x 10 ⁶	209	119
250 & 50mm Structural Topping	2136.72 x 10 ⁶	255	119
High Density Slabs			
150 Non-Composite	323.56 x 10 ⁶	84	187

Choice of Hollowcore Floors

Spanwright produce both precast reinforced and prestressed hollowcore units. Our technical department will be able to advise you which product is best for your particular application. In general precast units are more economic for shorter spans (up to 6m) and light loading situations, eg Housing construction, while prestressed units can span longer distances and take heavier loads. The performance of both types can be enhanced greatly by the use of structural toppings.

Key Characteristics of Hollowcore floor Options

Precast

- Stock Item (50mm Increments)
 - fast turn around
- No Precamber - Ideal for finishing trades
- 600mm wide lighter unit requires smaller crane
- Cantilever up to 1500mm achievable in standard units
- 210 Slab meets airbourne sound resistance of 300kg/m²

Prestressed

- Can accomodate large service openings
- Long clear spans possible with mininum depth
- Most economical span to depth ratio
- Designed to suit particular requirements of each project
- Can be fitted into steel beams to reduce overall floor depth



150mm Floor

UngROUTED Weight 250Kg/m²
Grouted Weight 270Kg/m²

Span (m)	Load KN/m ²
1.9	16.3
2.4	12.6
2.9	10.1
3.4	10.1
3.9	8.5
4.4	6.6
4.9	3.8
5	3.3



210mm Floor

UngROUTED Weight 290Kg/m²
Grouted Weight 305Kg/m²

Span (m)	Load KN/m ²
2.9	14.7
3.4	11.8
3.9	8.3
4.4	10.1
4.9	6.6
5.4	7
5.9	5.1
6	4.5

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