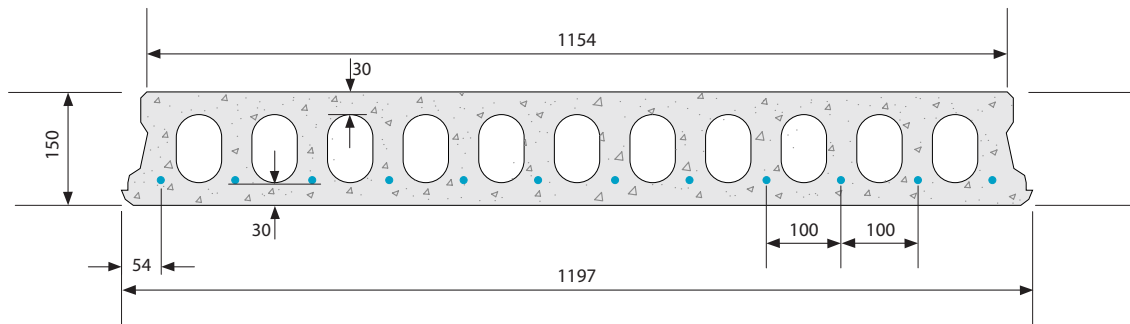


# Prestressed 150mm Hollowcore

*N.B. It is assumed that units have 100mm end bearing.  
No allowance has been made for service openings.  
All dimensions in mm*



## Load Span Table

Self weight of hollowcore unit - UngROUTed: 242 kg/m<sup>2</sup> - GROUTed: 254 kg/m<sup>2</sup> • Density of concrete: 2400 kg/m<sup>3</sup>  
 • Fire Resistance - 30mm cover: 1.5 hours - 40mm cover: 2.0 hours • Mean sound reduction 49dB  
 • Thermal resistance: 0.18 km<sup>2</sup>/W • Concrete compression strength class: C50/60 •  
 • Prestressing: 70% off  $f_{pu}$   $f_y = 1700$  N/mm for 9.3mm  $\phi$  & 12.5mm  $\phi$  strands •

150mm	Applied Load (kN/m <sup>2</sup> )/Limiting Clear Span (m)							
	1.5kN/m <sup>2</sup>	3.0kN/m <sup>2</sup>	4.0kN/m <sup>2</sup>	5.0kN/m <sup>2</sup>	7.5kN/m <sup>2</sup>	10.0kN/m <sup>2</sup>	15.0kN/m <sup>2</sup>	20.0kN/m <sup>2</sup>
No Structural Topping	7.00	6.40	6.10	5.80	5.30	4.80	4.10	3.70
50mm Structural Topping	7.10	7.10	7.10	6.90	6.30	5.70	4.90	4.50
75mm Structural Topping	7.00	7.00	7.00	7.00	6.40	5.90	5.30	4.80
100mm Structural Topping	6.80	6.80	6.80	6.80	6.40	6.00	5.40	5.00

