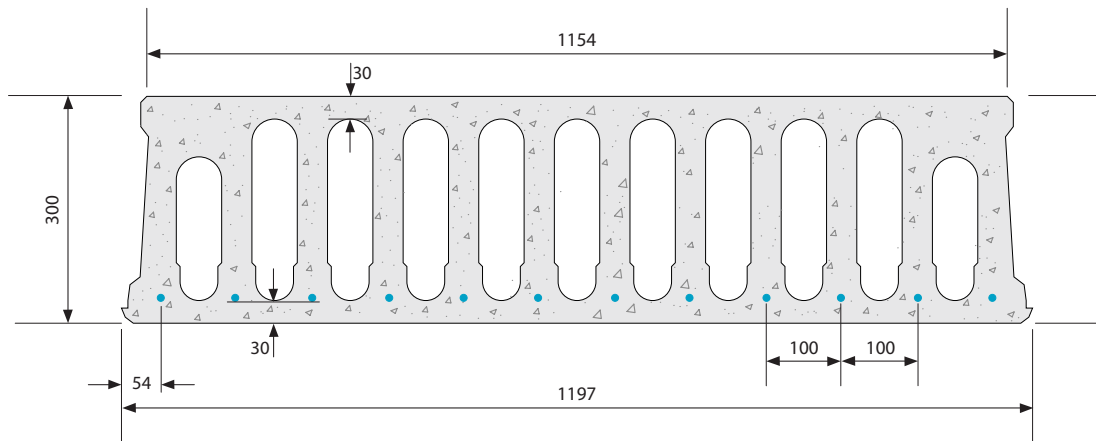


Prestressed 300mm Hollowcore

N.B. It is assumed that units have 100mm end bearing - for spans greater than 9m increased bearing is recommended. No allowance has been made for service openings. All dimensions in mm



Load Span Table

Self weight of hollowcore unit - UngROUTed: 415 kg/m² - GROUTed: 434 kg/m² • Density of concrete: 2400 kg/m³
 • Fire Resistance - 30mm cover: 1.5 hours - 40mm cover: 2.0 hours • Mean sound reduction 49dB
 • Thermal resistance: 0.18 km²/W • Concrete compression strength class: C50/60 •
 • Prestressing: 70% off f_{pu} $f_y = N/mm$ for 9.3mm ϕ & 12.5mm ϕ strands •

300mm	Applied Load (kN/m ²)/Limiting Clear Span (m)							
	1.5kN/m ²	3.0kN/m ²	4.0kN/m ²	5.0kN/m ²	7.5kN/m ²	10.0kN/m ²	15.0kN/m ²	20.0kN/m ²
No Structural Topping	12.40	11.60	11.20	10.70	9.80	8.80	7.70	6.90
50mm Structural Topping	12.50	12.30	12.00	11.50	10.50	9.70	8.60	7.70
75mm Structural Topping	12.40	12.30	12.00	11.50	10.60	9.80	8.50	7.60
100mm Structural Topping	12.30	12.20	11.90	11.40	10.60	9.90	8.30	7.50

