



Maximum Load-Span Table 150mm Concrete T-Beam

Thomas Armstrong Airtec Block [620 x 430 x 100] 750 kg/m



Design

The table below gives the maximum span for each prestressed concrete 150mm T-beams based on using Thomas Armstrong Concrete Blocks products.

Floor Construction Screeded Floor

- 65mm sand and cement screed

Floor Construction Lightweight Floor –

grouted then 50mm insulation and 18mm chipboard

TYPE OF FLOOR		BEAM CENTRES			
		515mm		705mm	
FLOOR DENSITY		Screeded	Lightweight	Screeded	Lightweight
		120 kg/m ²	120 kg/m ²	104 kg/m ²	104 kg/m ²
IMPOSED LOAD kN/m ²	1.5	4.830m	5.718m	4.199m	5.015m
	2.0	4.548m	5.269m	3.944m	4.600m
	2.5	4.309m	4.910m	4.064m	4.272m
	3.5	3.924m	N/A	3.386m	N/A
	5.0	3.499m	N/A	3.009m	N/A

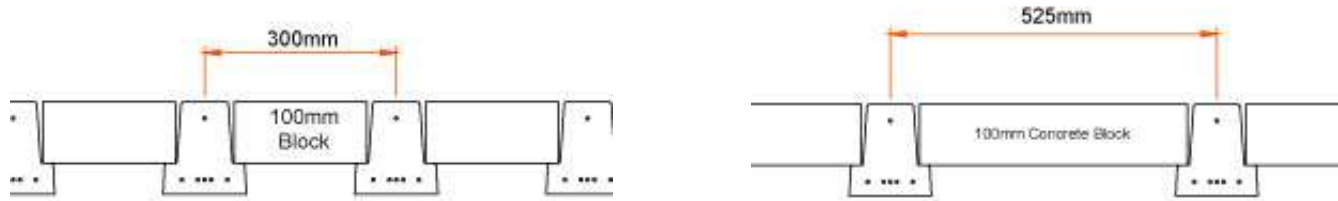
Disclaimer

These tables are for reference only. A more specific Safe Load calculation based on the salient loading details, can be produced by contacting our Technical department.



Maximum Load-Span Table 150mm Concrete T-Beam

Thomas Armstrong Lightweight Concrete Block [440 x 215 x 100] 1350 kg/m³



Design

The table below gives the maximum span for each precast concrete 150mm T beams based on using Thomas Armstrong Concrete Blocks products.

Floor Construction Screeded Floor - 65mm sand and cement screed

Floor Construction Lightweight Floor – grouted then 50mm insulation and 18mm chipboard

TYPE OF FLOOR		BEAM CENTRES			
		300mm		525mm	
FLOOR DENSITY		Screeded	Lightweight	Screeded	Lightweight
IMPOSED LOAD kN/m ²	1.5	5.716m	5.850m	4.458m	5.148m
	2.0	5.441m	5.850m	4.228m	4.806m
	2.5	5.203m	5.792m	4.030m	4.522m
	3.5	4.805m	N/A	3.703m	N/A
	5.0	4.347m	N/A	3.332m	N/A

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Maximum Load-Span Table 150mm Concrete T-Beam

Thomas Armstrong Dense Concrete Block [440 x 215 x 100] 1960 kg/m³



Design

The table below gives the maximum span for each precast concrete 150mm T beams based on using Thomas Armstrong Concrete Blocks products.

Floor Construction Screeded Floor - 65mm sand and cement screed

Floor Construction Lightweight Floor – grouted then 50mm insulation and 18mm chipboard

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			BEAM CENTRES			
			300mm		525mm	
TYPE OF FLOOR			Screeded	Lightweight	Screeded	Lightweight
FLOOR DENSITY			260 kg/m ²	260 kg/m ²	230 kg/m ²	230 kg/m ²
IMPOSED LOAD kN/m ²	1.5	MAX SPAN	5.478m	5.850m	4.228m	4.805m
	2.0		5.235m	5.836m	4.029m	4.521m
	2.5		5.021m	5.545m	3.856m	4.282m
	3.5		4.660m	N/A	3.566m	N/A
	5.0		4.238m	N/A	3.230m	N/A



Maximum Load-Span Table 150mm Concrete T-Beam

Shows different ctrs

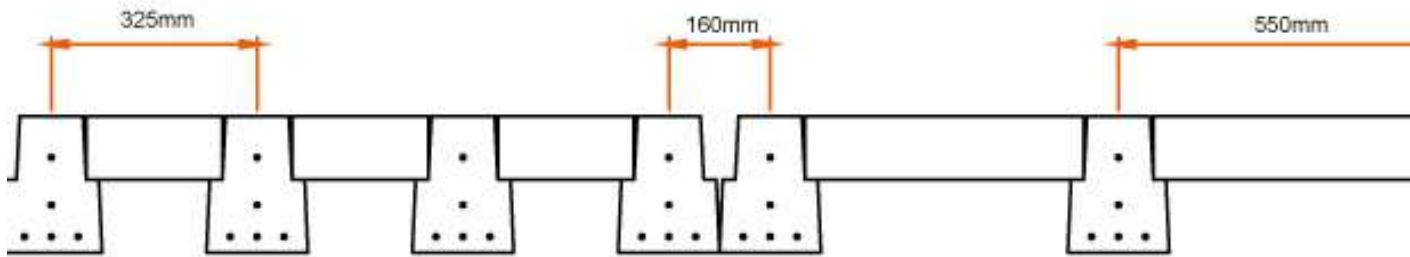


Design

The table below gives the maximum span for each precast concrete 150mm T beams based on using Thomas Armstrong Concrete Blocks products.

Floor Construction Screeded Floor - 65mm sand and cement screed

Floor Construction Lightweight Floor - grouted then 50mm insulation and 18mm chipboard



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