Thermal Floor Table & Characteristics 2014

The design table below is based upon a Live Load of 1.50 kN/m² (domestic) with Studwork Partitions at 1.0 kN/m² & Blockwork partitions at 3.0 kN/m. The spans are maximum clear span between walls. Where blockwork walls are parallel to the beams, in double or triple arrangements, they will need to be concreted together directly below the wall above.

DESIGN CRITERIA	IMPOSED LIVE LOAD 1.50 kN/m^2	FLOOR FINISH 75mm Concrete	Partition Loadings
	PANEL DENSITY 17 kg/mcub 540 x270mm	Reinforced with Fibre or Steel Mesh (see specification)	**Blockwork** 3.0 kN/m **Studwork** 1.0 kN/m^2 **Point Load** 4.50 kN

Loading Conditions	Beam Arrangement & centre shown in millimetres								
	Single 588	Single 453	Single 318	Double 680	Double 545	Double 410	Triple 772	Triple 637	Triple 502
Live & Finish Load Only	4458	5014	(5800)	5558	(5800)	(5800)	(5800)	(5800)	(5800)
Studwork	3917	4423	5184	4948	5430	(5800)	5520	(5800)	(5800)
Block Across Span	3676	4246	5102	4841	5379	(5800)	5480	(5800)	(5800)
Block Parallel to Span	2802	2931	3079	3777	3929	4102	4411	4570	4748
Blockwork 1/3rd Parallel	3819	4144	4553	4927	5267	5683	5570	(5800)	(5800)
Point Load inc Studwork	3388	3758	4290	4187	4530	4290	4620	4923	5301
	Maximum Clear Span shown in millimetres (not to exceed 5800mm)								

Certificate and Standard Applied

FPC Certificate – 1333-CPR-00145
Conforms to European Harmonised Standard – EN 15037-1-2008 - Category 1 – Annex – ZA

150mm Deep Beam Characteristics

Concrete

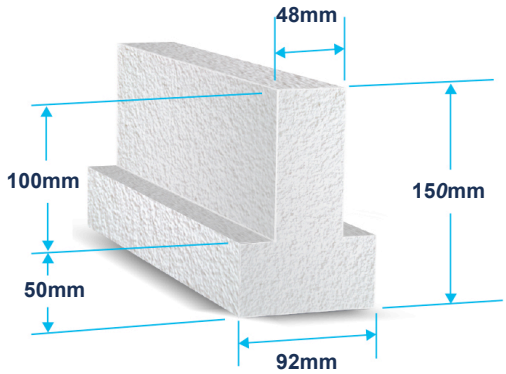
Compressive Strength	fck	55.00 N/mm^2

Pre-stressing Steel

Ultimate tensile strength	fpk	1770 kN/mm^2
Tensile 0.1% proof stress	fp0.1k	1556 kN/mm^2

Mechanical Properties

Bending Moment		5.311 kNm
Shear Capacity		15.669 kN
Resistance to fire R		30 minutes



Please do not hesitate to contact us should you wish to discuss any of the above or if you require any further information

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