Beam and block floors

Load span tables

CHARCON Construction Solutions

Technical Department

Standard beam and block

	Beam Ref	Weight KN/m²	Case width (m)	Finishes = 1.5 (kN/m²) Live load (kN/m²) 0.75	1.5	2	2.5	3	4	5	7.5
Case 1	CR94	1.685	0.496	*4.00*	*3.60*	*3.64*	*3.46*	*3.31*	*3.05*	*2.84*	*2.36**
	MI04	1.770	0.525	*4.85*	*4.71*	*4.17*	*3.96*	*3.79*	*3.43*	*3.26*	*2.31**
	C130	1.818	0.532	*5.00*	*4.62*	*4.37*	*4.16*	*3.97*	*3.67*	*3.42*	*2.65**
	MR09	1.918	0.573	*5.80*	*5.34*	*5.06*	*4.82*	*4.61*	*4.26*	*3.98*	*3.46**
	SB07	1.905	0.569	*5.83*	*5.36*	*5.08*	*4.84*	*4.63*	*4.27*	*3.99*	*3.47**
	C225	2.296	0.540	*6.92*	*6.46*	*6.15*	*5.87*	*5.63*	*5.22*	*4.89*	*3.86**
Case 2	CR94	1.791	0.384	*4.00*	*4.00*	*4.00*	*3.92*	*3.74*	*3.45*	*3.22*	*2.79**
	MI04	1.891	0.413	*5.00*	*4.92*	*4.66*	*4.44*	*4.25*	*3.92*	*3.66*	*2.88**
	C130	1.950	0.420	*5.00*	*5.00*	*4.87*	*4.64*	*4.44*	*4.11*	*3.84*	*3.34**
	MR09	2.063	0.461	*6.38*	*5.88*	*5.59*	*5.33*	*5.10*	*4.72*	*4.42*	*3.85**
	SB07	2.050	0.457	*6.41*	*5.90*	*5.61*	*5.35*	*5.12*	*4.74*	*4.43*	*3.86**
	C225	2.552	0.428	*7.61*	*7.11*	*6.78*	*6.49*	*6.23*	*5.80*	*5.44*	*4.77**
Case 3	CR94	1.985	0.271	*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*3.81*	*3.31*
	MI04	2.103	0.300	*5.00*	*5.00*	*5.00*	*5.00*	*4.92*	*4.56*	*4.26*	*3.71*
	C130	2.179	0.307	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*4.75*	*4.44*	*3.88*
	MR09	2.302	0.348	*6.50*	*6.50*	*6.31*	*6.03*	*5.79*	*5.37*	*5.03*	*4.40*
	SB07	2.288	0.344	*7.00*	*6.66*	*6.35*	*6.06*	*5.82*	*5.40*	*5.05*	*4.42*
	C225	2.990	0.315	*8.00*	*8.00*	*7.65*	*7.34*	*7.07*	*6.60*	*6.21*	*5.48*

The above table is based on a block density of 1350 kg/m³
** A Directly Bonded Screed is required with Live Loads of 7.5 kN/m2 case 1 & 2 conditions*
*** Where a Building is being used for Storage, please refer to the Charcon Technical Designers for All Load Span Information*

Beam and block floors

Load span tables

CHARCON Construction Solutions

Technical Department

Beamshield Insulated Blocks-
All Beamshield Floors will require the use of a Structural Screed.
Please refer to our Technical Information regarding this product.

	Beam Ref	Weight KN/m²	Case width (m)	Finishes = 1.8 (kN/m²) Live load (kN/m²) 0.75	1.5	2	2.5	3	4	5
Case 1	**CR94**	0.354	0.596	*4.00*	*3.86*	*3.61*	*3.40*	*3.22*	*2.94*	*2.71*
	MI04	0.566	0.625	*4.88*	*4.36*	*4.09*	*3.86*	*3.67*	*3.35*	*3.10*
	C130	0.620	0.632	*5.00*	*4.56*	*4.28*	*4.05*	*3.85*	*3.52*	*3.26*
	MR09	0.779	0.673	*5.82*	*5.27*	*4.96*	*4.69*	*4.47*	*4.10*	*3.80*
	SB07	0.762	0.669	*5.85*	*5.29*	*4.97*	*4.71*	*4.48*	*4.11*	*3.81*
	C225	1.039	0.640	*7.07*	*6.39*	*6.03*	*5.73*	*5.46*	*5.03*	*4.68*
Case 2	**CR94**	0.558	0.459	*4.00*	*4.00*	*4.00*	*3.81*	*3.62*	*3.31*	*3.07*
	MI04	0.712	0.490	*5.00*	*4.85*	*4.56*	*4.31*	*4.10*	*3.76*	*3.49*
	C130	0.779	0.497	*5.00*	*5.00*	*4.76*	*4.51*	*4.29*	*3.94*	*3.66*
	MR09	0.965	0.538	*6.30*	*5.78*	*5.45*	*5.17*	*4.93*	*4.54*	*4.22*
	SB07	0.946	0.534	*6.39*	*5.81*	*5.48*	*5.19*	*4.95*	*4.55*	*4.23*
	C225	1.307	0.505	*7.71*	*7.01*	*6.64*	*6.32*	*6.04*	*5.57*	*5.20*
Case 3	**CR94**	0.775	0.324	*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*3.90*	*3.62*
	MI04	0.969	0.355	*5.00*	*5.00*	*5.00*	*4.97*	*4.74*	*4.36*	*4.05*
	C130	1.055	0.362	*5.00*	*5.00*	*5.00*	*5.00*	*4.94*	*4.54*	*4.23*
	MR09	1.273	0.403	*6.50*	*6.48*	*6.14*	*5.84*	*5.58*	*5.15*	*4.81*
	SB07	1.251	0.399	*7.00*	*6.52*	*6.17*	*5.87*	*5.61*	*5.18*	*4.83*
	C225	1.770	0.370	*8.00*	*7.85*	*7.46*	*7.13*	*6.84*	*6.34*	*5.94*

Beam and block floors

Load span tables

CHARCON Construction Solutions

Technical Department

Tetris Insulated Blocks-
All Tetris Floors will require the use of a Structural Screed.
Please refer to our Technical Information regarding this product.

	Beam Ref	Weight KN/m²	Case width (m)	Finishes = 1.8 (kN/m²) Live load (kN/m²) 0.75	1.5	2	2.5	3	4	5
Case 1	MI04	0.566	0.625	*5.00*	*5.00*	*4.53*	*4.47*	*4.20*	*3.50*	*3.01*
	C130	0.620	0.632	*5.00*	*5.00*	*4.85*	*4.59*	*4.37*	*4.02*	*3.45*
	MR09	0.779	0.673	*6.30*	*5.80*	*5.65*	*5.16*	*4.92*	*4.71*	*4.39*
	SB07	0.762	0.669	*5.85*	*5.29*	*4.97*	*4.71*	*4.48*	*4.11*	*3.81*
	C225	1.039	0.640	*7.85*	*7.00*	*6.60*	*6.27*	*5.98*	*5.51*	*4.99*
Case 2	MI04	0.712	0.490	*5.00*	*5.00*	*5.00*	*4.78*	*4.55*	*4.17*	*3.63*
	C130	0.779	0.497	*5.00*	*5.00*	*5.00*	*5.00*	*4.68*	*4.50*	*4.00*
	MR09	0.965	0.538	*6.30*	*6.30*	*6.00*	*5.70*	*5.48*	*5.02*	*4.68*
	SB07	0.946	0.534	*6.30*	*5.81*	*5.48*	*5.19*	*4.95*	*4.55*	*4.23*
	C225	1.307	0.505	*8.00*	*7.63*	*7.25*	*6.91*	*6.62*	*6.13*	*5.74*
Case 3	MI04	0.969	0.355	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*4.59*
	C130	1.055	0.362	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*4.70*
	MR09	1.273	0.403	*6.30*	*6.30*	*6.30*	*6.30*	*6.18*	*5.75*	*5.39*
	SB07	1.251	0.399	*6.30*	*6.30*	*6.17*	*5.87*	*5.61*	*5.18*	*4.83*
	C225	1.770	0.370	*8.00*	*8.00*	*8.00*	*7.81*	*7.50*	*7.04*	*6.63*