

### Span table for 220mm BCI® Joists:

The table below represents the maximum simply supported spans for a range of performance levels (Service class 1).

Joist depth (mm)	BCI® Joist type	Maximum engineered spans (m) for domestic construction /1, /2											
		Code recommended /3				NHBC recommended /4				100% stiffer than code /5			
		600 c/c	480 c/c	400 c/c	300 c/c	600 c/c	480 c/c	400 c/c	300 c/c	600 c/c	480 c/c	400 c/c	300 c/c
220	5000	3.787	4.105	4.382	4.802	3.787	4.077	4.278	4.613	2.927	3.184	3.408	3.787
	60	4.303	4.666	4.896	5.280	4.220	4.479	4.701	5.071	3.322	3.616	3.871	4.303
	90	4.861	5.161	5.418	5.848	4.663	4.952	5.200	5.614	3.797	4.138	4.434	4.861

- /1 All spans quoted are 'engineered' spans measured between centres of bearing points. Minimum bearing length at joist ends is 45mm.
- /2 All spans quoted are for standard domestic loading (including allowance for internal partitions) 0.75kN/m<sup>2</sup> dead load and 1.5kNm<sup>2</sup> imposed loading.
- /3 Minimum floor stiffness recommended in BS5268-2:2002 – dictated by maximum allowable floor deflection = 0.3% of the span up to a maximum of 14mm.
- /4 Minimum floor stiffness recommended by the NHBC – dictated by maximum allowable floor deflection = 0.3% of the span up to a maximum of 12mm.
- /5 100% higher floor stiffness than recommended in BS5268-2:2002 – dictated by maximum allowable floor deflection = 0.15% of the span up to a maximum of 7mm.