

COMPOSITE FIBRE TECHNOLOGIES
INSTALLERS GUIDE - MAXIMUM JOIST SPAN

Joist Designation			Mass per metre (kg/m)	3 kPa				5 kPa			
				Simply Supported		Continuously Supported		Simply Supported		Continuously Supported	
d (mm)	b (mm)	t (mm)	450 (mm)	600 (mm)	450 (mm)	600 (mm)	450 (mm)	600 (mm)	450 (mm)	600 (mm)	
100 x	75 x	5.25 SHS	3.28	2700	2500	3600	3300	2400	2200	3200	2900
100 x	100 x	5.25 SHS	3.81	2900	2700	3900	3600	2600	2400	3500	3200
125 x	125 x	6.50 SHS	5.94	3900	3600	5100	4900	3500	3200	4600	4300
200 x	75 x	5.25 SHS	6.56	4800	4400	5900	5800	4200	3900	5700	5300
200 x	100 x	5.25 SHS	7.61	5100	4700	6100	6000	4500	4100	6100	5600
250 x	125 x	6.50 SHS	11.88	6800	6300	7400	7400	6000	5600	7400	7400
300 x	75 x	5.25 SHS	9.84	7000	6500	7700	7600	6200	5700	7700	7600
300 x	100 x	5.25 SHS	11.42	7300	6800	7900	7800	6500	6000	7900	7800
375 x	125 x	6.50 SHS	17.82	9700	9100	9600	9400	8700	8000	9600	9400
400 x	75 x	5.25 SHS	13.12	9200	8500	9300	9200	8200	7500	9300	9200
400 x	100 x	5.25 SHS	15.22	9500	8900	9500	9400	8600	7900	9500	9400

d : Depth
b: Width
t: Thickness

Notes: 1) allowable span is defined by deflection ratio and by Natural Frequency
2) First Natural Frequency is maintained above 5Hz
3) Deflection Ratio is maintained above L/250