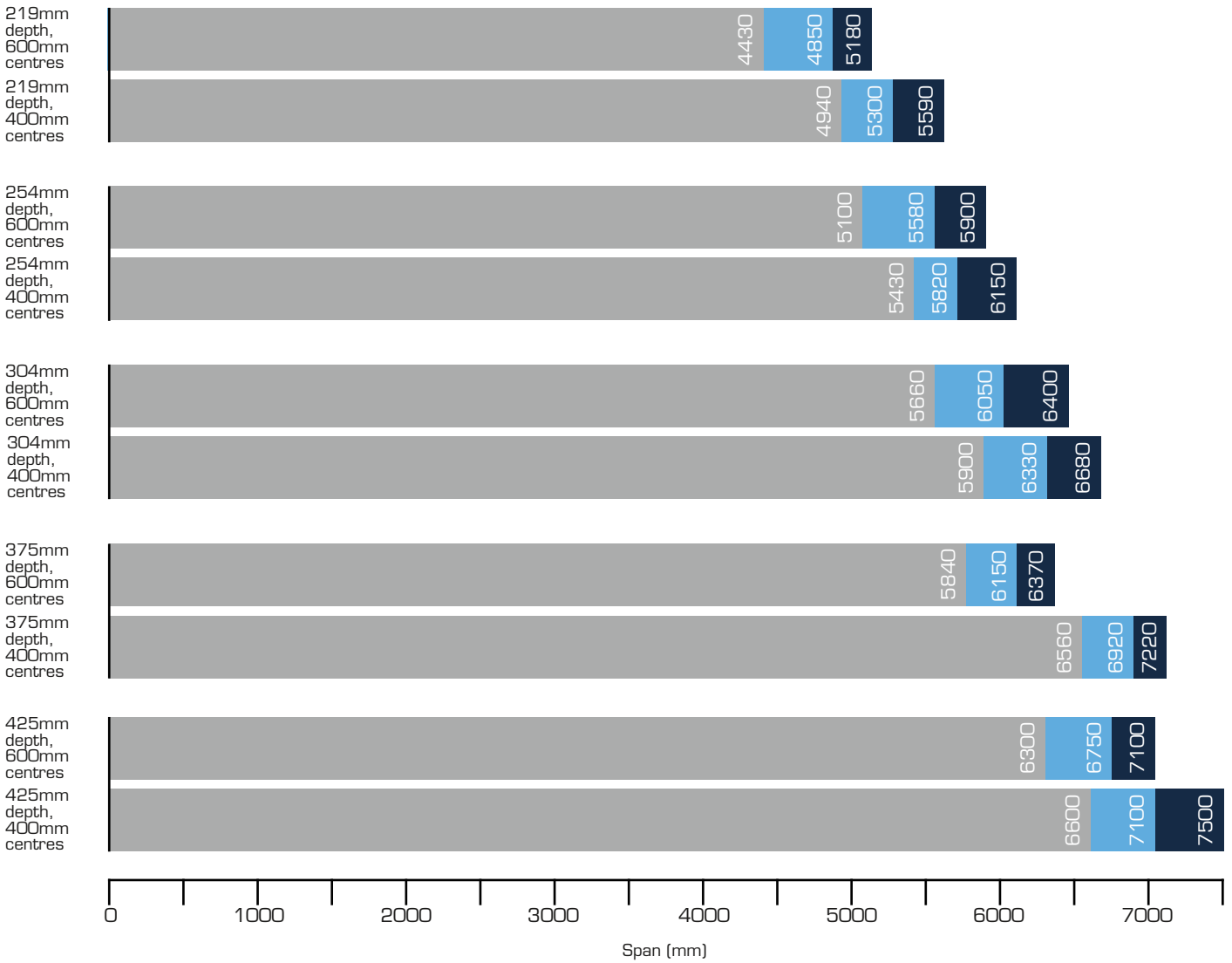


SPAN TABLES

SpaceJoist span tables for domestic floor loading (based on TR26 timber)

47 x 72mm
 47 x 97mm
 47 x 122mm



SpaceRafter span tables

Web type	Depth (mm)	Centres (mm)	Width (mm)	Flat roof span (<5°)	Pitched roof span (45°)
SJ9	219mm	600	47x72	5150	4500
			47x97	5650	4950
			47x122	6100	5350
SJ10	254mm	600	47x72	5900	5100
			47x97	6500	5650
			47x122	7000	6050
SJ12	304mm	600	47x72	6650	5800
			47x97	7300	6400
			47x122	7850	6900
TW14	375mm	600	47x72	7800	6750
			47x97	8550	7500
			47x122	9150	8050
TW16	425mm	600	47x72	8550	7350
			47x97	9350	8050
			47x122	10050	8800

This span table is indicative and to be used only as an estimating/feasibility tool. These spans have been calculated with typical roof loading applied using TR26 timber. Plywood is attached directly to the top of the joists to provide a rigid diaphragm

Pitched roof:

Top chord dead: 685 N/m²

Snow loads: 750 N/m²

Bottom chord dead: 200 N/m²

Flat roof:

Top chord dead: 500 N/m²

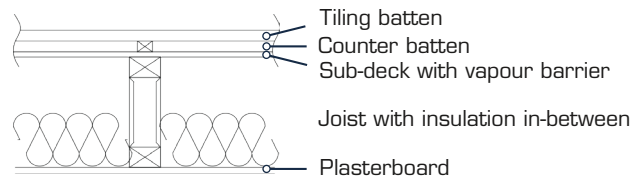
Snow loads: 750 N/m²

Bottom chord dead: 200 N/m²

Flipped timber orientation option

Rafter overall depth (mm)	Flat roof span (<5°)	Pitched roof span (45°)
269	5700	5000
319	6850	6000
304	6400	5550
354	7600	6600

Typical roof section:



These are achieved by rotating the timber, so joist is only 47mm thick.



Domestic floor loadings

Domestic floor loadings

Top chord dead	550 N/m ²
Bottom chord dead	200 N/m ²
Live load	1500 N/m ²

Includes an allowance of 350 N/m² for partition load. Spans governed by EC5 vibration check where applicable. Timber strength class - TR26. Self weight included. Spans include 100mm bearing at each end.

SJ9	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	4940
		47x97	5300
		47x122	5590
	600	47x72	4360
		47x97	4770
Depth: 219mm		47x122	5100

TW14	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	6600
		47x97	7100
		47x122	7500
	600	47x72	6240
		47x97	6780
Depth: 375mm		47x122	7150

SJ10	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	5430
		47x97	5820
		47x122	6150
	600	47x72	5010
		47x97	5490
Depth: 254mm		47x122	5880

TW16	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	7050
		47x97	7600
		47x122	8000
	600	47x72	6730
		47x97	7200
Depth: 425mm		47x122	7600

SJ12	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	5900
		47x97	6330
		47x122	6680
	600	47x72	5600
		47x97	6010
Depth: 304mm		47x122	6400

Office floor loading

Office floor loadings

Top chord dead	1200 N/m ²
Bottom chord dead	200 N/m ²
Live load	2500 N/m ²

Includes an allowance of 1000 N/m² for partition load. Spans governed by EC5 vibration check where applicable. Timber strength class - TR26. Self weight included. Spans include 100mm bearing at each end.

SJ9	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	4140
		47x97	4520
		47x122	4840
	600	47x72	3550
		47x97	3780
Depth: 219mm		47x122	4020

TW14	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	5850
		47x97	6700
		47x122	7200
	600	47x72	4560
		47x97	5320
Depth: 375mm		47x122	6100

SJ10	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	4770
		47x97	5220
		47x122	5580
	600	47x72	3800
		47x97	4400
Depth: 254mm		47x122	4800

TW16	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	6050
		47x97	7150
		47x122	7750
	600	47x72	4900
		47x97	6050
Depth: 425mm		47x122	6600

SJ12	Centres (mm)	Timber size (mm)	Span (mm)
	400	47x72	5240
		47x97	5680
		47x122	6050
	600	47x72	4170
		47x97	4750
Depth: 304mm		47x122	5050