SPAN TABLES

Brookridge Timber

Span tables can be used to determine the size of a timber member of a particular strength class required for a given span. They also tell you what the maximum spacing should be between each section or timber member

FLOOR JOISTS

SIZE OF JOISTS (mm)	CLEAR SPAN C16 JOIST (M)	CLEAR SPAN C24 JOIST (M)
47 X 95	1.77	2.05
47 X 120	2.40	2.67
47 X 145	2.89	3.22
47 X 170	3.38	3.77
47 X 195	3.87	4.31
47 X 220	4.36	4.85

Assumptions at 400mm Centers

- Supporting permanent load (excluding self-weight of joists) up to 50kg/m2.
- Supporting imposed load up to 150kg/m2.
- Joist breadth 47mm.
- Span is clear span between supports.
- At least 40mm bearing on supports.
- If supporting one lightweight partition running perpendicular to joists, reduce span by 10%.
- If supporting lightweight partitions running parallel to joists, provide two additional joists under each partition.

FLAT ROOF JOISTS

SIZE OF JOISTS (mm)	CLEAR SPAN C16 JOIST (M)	CLEAR SPAN C24 JOIST (M)
47 X 95	1.77	2.04
47 X 120	2.40	2.75
47 X 145	2.89	3.47
47 X 170	3.38	4.20
47 X 195	3.87	4.93
47 X 220	4.36	5.66

Assumptions at 400mm Centers

- Supporting permanent load (excluding self-weight of joists) up to 50kg/m2.
- Supporting imposed load for access and repair only.
- Maximum slop3 10 deg.
- Joist breadth 47mm.
- Span is clear span between supports.
- At least 40mm bearing on supports.

The above information is for guidance only and for each individual project expert advice should be sought from a structural engineer or similar.