

Metrix Timber I-Joist Span Table

Dated: 01/11/23

Member Type:

Single Span Floor Joist

Dimensional Data:

- Top of floor joist restraint: Continuous restraint
- Bottom Edge Restraint: max 600mm

Span Type:

Single Span – Span distance is the internal measurement between structural supports element.

Basic Loading Data:

- Flooring + Ceiling 40 kg/m²
- Floor Live Load = 1.5kPa/1.8kN
- Standard AS1720.3 Dynamics for 1.0kN Static Load
- Min. End Bearing Length = 35mm
- Min. Intermediate Bearing Length = 45mm

Joist Size	Joist Centres					Span	Floor Dead Load	Residential	Load	Max. Deflection
	300	400	450	480	600					
240x63	510 0	480 0	460 0	460 0	430 0	Single Span	40kg/m ²	Class 1/10a	1.5kPa/1.8kN	9mm
300x63	480 0	540 0	530 0	520 0	490 0	Single Span	40kg/m ²	Class 1/10a	1.5kPa/1.8kN	9mm
240x63	460 0	430 0	410 0	410 0	380 0	Single Span	65kg/m ²	Class 1/10a	1.5kPa/1.8kN	9mm
300x63	520 0	490 0	470 0	460 0	440 0	Single Span	65kg/m ²	Class 1/10a	1.5kPa/1.8kN	9mm
240x63	570 0	530 0	510 0	500 0	470 0	Single Span	40kg/m ²	Class 1/10a	1.5kPa/1.8kN	15mm
300x63	650 0	600 0	590 0	580 0	540 0	Single Span	40kg/m ²	Class 1/10a	1.5kPa/1.8kN	15mm
240x63	540 0	510 0	490 0	480 0	460 0	Single Span	65kg/m ²	Class 1/10a	1.5kPa/1.8kN	15mm
300x63	620 0	580 0	560 0	550 0	520 0	Single Span	65kg/m ²	Class 1/10a	1.5kPa/1.8kN	15mm

Flooring vs Max. Centres

Verify the thickness of the flooring prior to installation to ensure it can adequately span the intended maximum center spacings.

* Joists with a Max. Centre spacing of 450mm or less = 19mm min

* Joists with a Max. Centre spacing of 600mm or less = 22mm min

Bearing

It is presumed that the design incorporates minimum bearing conditions of 35mm or more. This may involve a solid bottom edge bearing, such as a wall, or a face-fixed metal hanger.

Results:

Metrix Timber has made diligent efforts to ensure the accuracy and reliability of the data and information presented in this document. It is important to note that this information serves as a general guide and should not be considered a substitute for professional advice.

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