

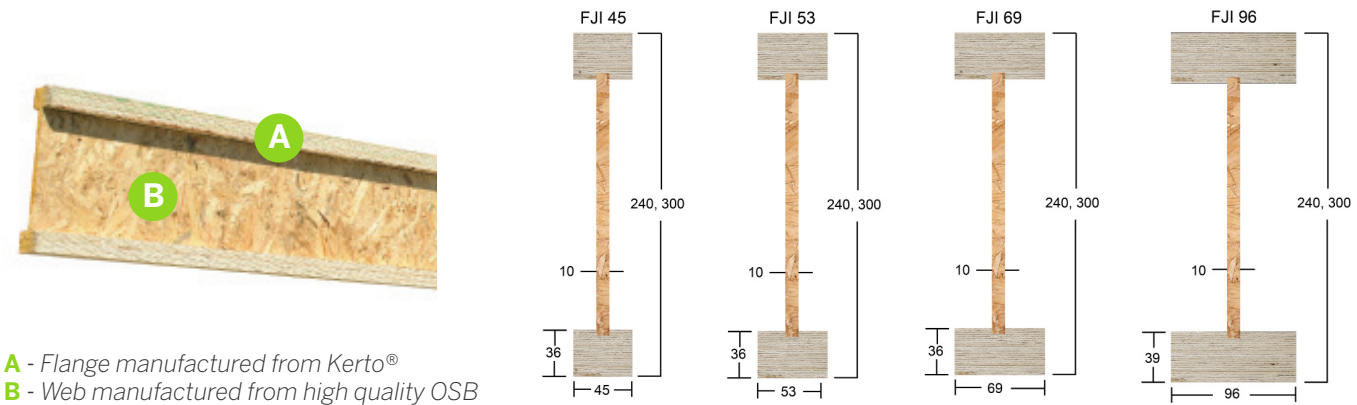


# FINNJOIST I-BEAMS

Finnjoist I-Beams (FJI) are an engineered solution for floor joists, roof members and wall studs. They are fully engineered and factory produced to give uniform strength, rigidity and weight, out-performing traditional solid wood construction. Finnjoists have a Kerto® flange and high quality OSB web which has a high strength to weight ratio and therefore produces lighter, longer spans combined with quick and easy installation, reducing your build time and increasing efficiency.

Metsä Wood has been producing Finnjoists at our purpose-built factory in King's Lynn since 2002, supplying them through a network of distributors in the UK into key construction sectors such as house-builders. Our distributors offer a design service based on your existing floor plans and a quick turnaround of design, quotation and delivery to site helping you keep on-time and in-budget.

Finnjoists have full 3rd party accreditation through the BM Trada Q-Mark and are the first product on the market to gain the European Technical Approval (ETA) and the CE mark.



Above: Standard Finnjoist sizes



FINNJOIST (FJI) SPAN TABLE

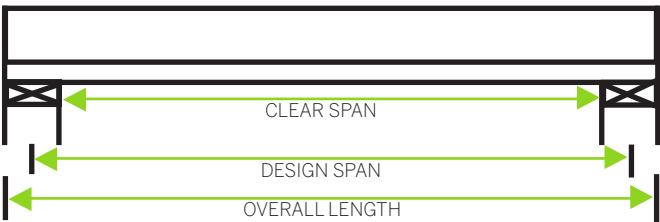
FJI	FINNFRAME 12 STANDARD				FINNFRAME 12+			
	600	480	400	300	600	480	400	300
45x200	3.550	3.855	4.070	4.395	3.505	3.755	3.955	4.195
58x200	3.860	4.125	4.330	4.680	3.805	4.045	4.200	4.455
89x200	4.295	4.565	4.795	5.185	4.295	4.495	4.655	4.925
38x220	3.635	3.945	4.135	4.465	3.595	3.835	4.015	4.265
45x220	3.845	4.105	4.315	4.655	3.795	4.025	4.185	4.435
58x220	4.115	4.375	4.585	4.955	4.115	4.275	4.445	4.715
89x220	4.555	4.835	5.085	5.495	4.555	4.755	4.925	5.215
38x240	3.915	4.165	4.370	4.715	3.870	4.080	4.235	4.490
45x240	4.085	4.340	4.555	4.915	4.085	4.250	4.410	4.680
58x240	4.345	4.615	4.845	5.230	4.335	4.510	4.685	4.970
89x240	4.805	5.110	5.370	5.800	4.805	5.010	5.190	5.490
45x240-36	4.045	4.295	4.510	4.865	4.035	4.205	4.370	4.630
53x240-36	4.210	4.470	4.690	5.065	4.200	4.370	4.540	4.815
69x240-36	4.480	4.760	5.000	5.395	4.475	4.650	4.825	5.120
96x240	4.890	5.200	5.465	5.905	4.890	5.105	5.290	5.595
38x300	4.485	4.760	4.995	5.385	4.470	4.650	4.825	5.115
45x300	4.670	4.960	5.205	5.615	4.650	4.840	5.025	5.325
58x300	4.965	5.270	5.535	5.970	4.935	5.135	5.330	5.655
89x300	5.485	5.830	6.125	6.620	5.485	5.695	5.900	6.245
45x300-36	4.620	4.905	5.145	5.550	4.600	4.785	4.970	5.270
53x300-36	4.800	5.100	5.350	5.775	4.780	4.970	5.160	5.475
69x300-36	5.110	5.425	5.700	6.150	5.085	5.285	5.485	5.820
96x300	5.585	5.935	6.235	6.735	5.585	5.805	6.015	6.300
45x360	5.195	5.515	5.790	6.245	5.160	5.370	5.570	5.910
58x360	5.520	5.860	6.150	6.640	5.470	5.690	5.910	6.270
89x360	6.095	6.480	6.805	7.350	6.080	6.310	6.535	6.920
45x400	5.525	5.860	6.150	6.635	5.475	5.695	5.910	6.270
58x400	5.860	6.225	6.535	7.050	5.800	6.035	6.270	6.650
89x400	6.475	6.880	7.225	7.805	6.445	6.690	6.930	7.335

GENERAL NOTES:

- A. Metsä Wood recommend that the decking is glued and fixed in accordance with British Standards. This can significantly improve the floor performance.
- B. Deeper I-Joists will perform better than shallower I-Joists due to better deflection performance.
- C. The depth of the floor decking influences performance with deeper floor decking improving stiffness.
- D. Appropriate strutting of the joists may increase the floor stiffness. Consult Metsä Wood for advice (01205 883 835).
- E. Correct bearing line and level is essential for in-service performance.
- F. When using joist hangers ensure the correct joist hanger matched to joist type is used and that all nails are correctly specified and used.
- G. Avoid using unspecified nails into the sides of the flange as this can lead to splitting.
- H. On no account is the flange to be cut. For service holes, refer to the holes tables on page 26 of the Finnframe brochure.
- I. Other span tables are available on request.

INTERMEDIATE FLOOR 0.75kN/m2 DEAD LOAD ALLOWANCE

Standard domestic floor condition with allowance for non-load bearing partitions up to 0.66kN/m. Maximum clear span (L) for single span conditions. Finnframe floor design has 2 performance classes: Finnframe Standard 12 Class and Finnframe 12+ Class. Refer to the Finnframe brochure for full details.



SPAN TABLE NOTES:

- 1. Service Class 1 is suitable for intermediate floors in normal heated domestic dwellings. For other applications, please contact Metsä Wood Technical Support (01205 883 835) or your local distributor.
- 2. All loads are assumed to be uniformly distributed.
- 3. Load sharing and adequate lateral restraint to the flanges is taken into account in the design. Joist span tables assume that ceiling and decking is fixed in accordance with the appropriate British Standards.
- 4. Spans are clear spans i.e. between supports. Minimum end bearing length required is 45mm.
- 5. The applied live load is 1.5kN/m2 for single occupancy domestic dwellings.
- 6. Web stiffeners are not required for the spans listed above unless hangers do not laterally restrain the top flange.
- 7. The dead load condition for this table is based on the floor make-up shown on page 11 of our Finnframe brochure.
- 8. Dead load condition is based on 22mm particle board decking and a 15mm plasterboard ceiling plus an allowance for non-load bearing partitions up to 0.66kN/m.
- 9. Performance classes - please refer to page 10 of our Finnframe brochure.
- 10. Span tables are calculated in accordance with BS EN 1995-1-1.
- 11. Consult Metsä Wood Technical Support for further information and conditions outside of the tables (01205 883 835) or your local distributor.

FOR FURTHER INFORMATON:

01205 883 835

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