

Company I-joist website:

<https://www.steico.com/en/products/construction/steicojoist/overview/>

## STEICOjoist / STEICOWall

STEICOjoist SJ <sub>L</sub> 45	STEICOjoist SJ <sub>L</sub> 60	STEICOjoist SJ <sub>L</sub> 90
Package = 43 pieces/package	Package = 33 pieces/package	Package = 23 pieces/package

**STEICOjoist**  
I-Joist Building System for floors & roofs

The ideal joist for highly loaded structural elements like rafters or floor joists.



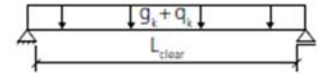
[1.77" X 7.87" to 15.75"]    [2.36" X 7.87" to 19.69"]    [3.54" X 7.87" to 19.69"]

Use "SJ<sub>L</sub> 45" if possible avoid using "SJ<sub>L</sub> 90"

### Span tables for STEICOjoist according to BS EN 1995-1-1

#### Single spans

Maximum single spans  $L_{clear}$  (m) | Max. final deflection  $L/250$  | Fundamental frequency  $f_1 > 8$  Hz



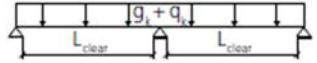
Live load  $q_k = 1.5$  kN/m<sup>2</sup>

Type	Joist height h [mm]	$g_k = 0.75$ kN/m <sup>2</sup> Joist centers [mm]				$g_k = 1.25$ kN/m <sup>2</sup> Joist centers [mm]			
		300	400	480	600	300	400	480	600
STEICOjoist SJ <sub>L</sub> 45	200	4.285	4.170	3.940	3.630	4.280	3.855	3.600	3.310
	220	4.540	4.415	4.235	3.935	4.540	4.175	3.905	3.590
	240	4.785	4.655	4.465	4.240	4.785	4.495	4.205	3.870
	300	5.455	5.305	5.090	4.875	5.455	5.305	5.050	4.650
	360	6.055	5.890	5.650	5.415	6.055	5.890	5.650	5.390
STEICOjoist SJ <sub>L</sub> 60	200	4.580	4.455	4.270	3.970	4.580	4.215	3.940	3.620
	220	4.855	4.720	4.525	4.310	4.855	4.575	4.275	3.930
	240	5.110	4.970	4.765	4.565	5.110	4.920	4.595	4.225
	300	5.820	5.660	5.430	5.200	5.820	5.660	5.430	5.080
	360	6.455	6.275	6.020	5.765	6.455	6.275	6.020	5.765
STEICOjoist SJ <sub>L</sub> 90	200	5.025	4.885	4.685	4.485	5.025	4.790	4.465	4.100
	220	5.325	5.175	4.960	4.750	5.325	5.175	4.845	4.450
	240	5.605	5.450	5.225	5.000	5.605	5.450	5.215	4.790
	300	6.375	6.200	5.945	5.690	6.375	6.200	5.945	5.690
	360	7.070	6.870	6.590	6.305	7.070	6.870	6.590	6.305
400	7.495	7.285	6.985	6.685	7.495	7.285	6.985	6.685	

## Span tables for STEICOjoist according to BS EN 1995-1-1

### Double spans

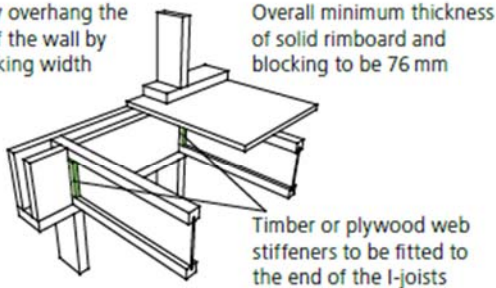
Maximum double spans  $L_{clear}$  (m) with mid span support | Max. final deflection  $L/250$  | Fundamental frequency  $f_1 > 8$  Hz | Live load  $q_k = 1.5$  kN/m<sup>2</sup>



Type	Joist height h [mm]	$g_k = 0.75$ kN/m <sup>2</sup> Joist centers [mm]				$g_k = 1.25$ kN/m <sup>2</sup> Joist centers [mm]			
		300	400	480	600	300	400	480	600
STEICOjoist SJ <sub>L</sub> 45	200	4.690	4.560	4.375	4.135	4.690	4.455	4.190	3.885
	220	4.970	4.830	4.635	4.440	4.970	4.820	4.535	4.205
	240	5.240	5.095	4.885	4.680	5.240	5.095	4.875	4.520
	300	5.975	5.810	5.575	5.335	5.975	5.810	5.575	4.960
	360	6.640	6.455	6.190	5.930	6.640	6.455	6.190	4.960
STEICOjoist SJ <sub>L</sub> 60	200	5.015	4.875	4.675	4.470	5.015	4.875	4.610	4.275
	220	5.315	5.165	4.950	4.740	5.315	5.165	4.950	4.630
	240	5.595	5.440	5.215	4.995	5.595	5.440	5.215	4.970
	300	6.375	6.200	5.945	5.690	6.375	6.200	5.945	5.690
	360	7.075	6.880	6.600	6.315	7.075	6.880	6.600	5.945
	400	7.510	7.300	7.000	6.705	7.510	7.300	7.000	5.945
STEICOjoist SJ <sub>L</sub> 90	200	5.505	5.345	5.125	4.900	5.505	5.345	5.125	4.895
	220	5.830	5.665	5.430	5.195	5.830	5.665	5.430	5.195
	240	6.140	5.965	5.720	5.470	6.140	5.965	5.720	5.470
	300	6.990	6.790	6.510	6.230	6.990	6.790	6.510	6.230
	360	7.750	7.530	7.220	6.905	7.750	7.530	7.220	6.905
	400	8.215	7.985	7.655	7.325	8.215	7.985	7.655	7.325

#### TF4 Joists bearing on party walls

Blocking may overhang the inside face of the wall by half the blocking width



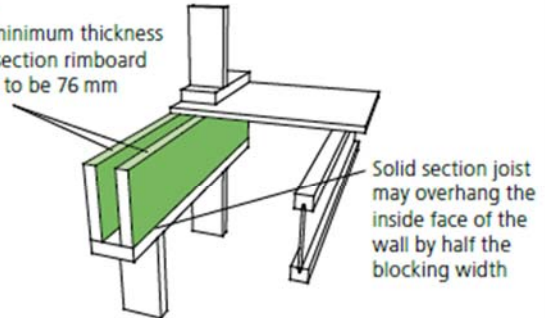
Overall minimum thickness of solid rimboard and blocking to be 76 mm

Timber or plywood web stiffeners to be fitted to the end of the I-joists

Minimum nailing for class 1 structures to be 3.00\*75 nails at 300 mm centers which should be applied at each interface where lateral loads are to be transferred. Refer to STA "Design Guidance on Disproportionate Collapse" for further information.

#### TF5 Joists parallel to party wall

Overall minimum thickness of solid section rimboard and joist to be 76 mm



Solid section joist may overhang the inside face of the wall by half the blocking width

Minimum nailing for class 1 structures to be 3.00\*75 nails at 300 mm centers which should be applied at each interface where lateral loads are to be transferred. Refer to STA "Design Guidance on Disproportionate Collapse" for further information.