

Steel Joist Institute Standard Loading Table

Properties and Allowable Total Safe Loads in Pounds per Lineal Foot of

Open Web Standard and Nailor Steel Joists

Adopted by the Steel Joist Institute August 20, 1929 and Revised to June 1, 1948

This Table in accordance with Simplified Practice Recommendation No. R94-30 of the Bureau of Standards, U. S. Dept. of Commerce

Steel Joist Institute Designation	SJ81 or SJ81W	SJ82 or SJ82W	SJ102 or SJ102W	SJ103 or SJ103W	SJ104 or SJ104W	SJ123 or SJ123W	SJ124 or SJ124W	SJ125 or SJ125W	SJ126 or SJ126W	SJ145 or SJ145W	SJ146 or SJ146W	SJ147 or SJ147W	SJ166 or SJ166W	SJ167 or SJ167W	Steel Joist Institute Designation
*Depth in Inches	8	8	10	10	10	12	12	12	12	14	14	14	16	16	*Depth in Inches
Resisting Moment In Inch Pounds	29,500	52,500	63,000	82,000	100,000	92,000	115,000	142,000	175,000	156,000	205,000	246,000	232,000	281,000	Resisting Moment In Inch Pounds
Maximum End Reaction in Pounds	1,600	1,900	1,900	1,950	2,200	2,200	2,300	2,500	2,700	2,900	3,100	3,400	3,200	3,600	Maximum End Reaction in Pounds
Span 4 Feet	800														Span 4 Feet
5	640														5
6	530														6
7	402														7
8	308														8
9	243														9
10	197	350													10
11	162	289													11
12	137	243	292												12
13	116	207	248												13
14	100	178	214												14
15	87	155	187	243		272									15
16	77	137	164	213	260	240									16
17			145	189	230	212									17
18			130	169	205	189	236								18
19			116	151	184	170	212	288							19
20			105	137	167	153	192	237	260						20
21						139	174	215	236						21
22						127	158	196	241	215					22
23						116	145	179	221	197	258				23
24						106	133	164	202	180	237				24
25										166	218	262	247		25
26										154	202	243	229		26
27										143	187	225	212	257	27
28										133	174	209	197	239	28
29													184	223	29
30													172	208	30
31													161	195	31
32													151	183	32

\* Indicates Nominal Depth of Standard Steel Joists only. See Manufacturers' Catalogue for depths of Nailor Steel Joists.