

STEEL JOIST CONSTRUCTION

SEE PAGE 14 FOR EXPLANATION OF LOADING TABLE

Properties and Allowable Total Loads in Pounds per Linear Foot of

STEEL JOIST INSTITUTE STANDARD

Open Web Steel Joists

Adopted by Steel Joist Institute Aug. 20, 1929. Effective Jan. 1, 1930

In accordance with Simplified Practice Recommendation No. R 94-30 of the Bureau of Standards, U. S. Dept. of Commerce.

Steel Joist Institute Designation	SJ81	SJ82	SJ102	SJ103	SJ104	SJ123	SJ124	SJ125	SJ126	SJ145	SJ146	SJ147	SJ166	SJ167	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	1600	1900	1900	1950	2200	2200	2300	2500	2700	2900	3100	3400	3200	3600	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	237		260					20
21					139	174	215	215		236					21
22					127	158	196	241	241	215					22
23					116	145	179	221	221	197	258				23
24					106	133	164	202	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

*Note. These Joists are not produced by all Manufacturers.