



**PRESENTS:**



## **A Comparison To Conventional Lightweight Steel Framing Sections**



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## A Comparison To Conventional LSF Sections

### COMBINED WIND & AXIAL LOADBEARING STUD TABLES

MAXIMUM FACTORED COMPRESIVE RESISTANCE, IN kips PER STUD

362S162-33 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	2.37	1.41	0.96	68.09%
9	1.81	0.96	0.85	88.54%
10	1.24	0.53	0.71	133.96%
11	0.68	0.14	0.54	385.71%
362S162-43 with 30 psf factored wind load spaced @ 16" o.c.				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	3.67	2.48	1.19	47.98%
9	3.08	1.96	1.12	57.14%
10	2.45	1.45	1.00	68.97%
11	1.77	0.96	0.81	84.38%
12	1.14	0.52	0.62	119.23%
13	0.60	0.13	0.47	361.54%
362S162-54 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	6.90	4.70	2.20	46.81%
9	6.20	4.02	2.18	54.23%
10	5.43	3.33	2.10	63.06%
11	4.42	2.65	1.77	66.79%
12	3.44	2.03	1.41	69.46%
13	2.61	1.50	1.11	74.00%
14	1.90	1.05	0.85	80.95%



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## A Comparison To Conventional LSF Sections

### COMBINED WIND & AXIAL LOADBEARING STUD TABLES

MAXIMUM FACTORED COMPRESIVE RESISTANCE, IN kips PER STUD

362S162-68 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	8.87	6.42	2.45	38.16%
9	8.13	5.58	2.55	45.70%
10	7.29	4.72	2.57	54.45%
11	6.09	3.88	2.21	56.96%
12	4.90	3.10	1.80	58.06%
13	3.86	2.43	1.43	58.85%
14	2.98	1.86	1.12	60.22%
16	1.63	0.99	0.64	64.65%
362S162-97 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	13.15	9.85	3.30	33.50%
9	11.73	8.70	3.03	34.83%
10	10.80	7.50	3.30	44.00%
11	9.30	6.32	2.98	47.15%
12	7.73	5.20	2.53	48.65%
13	6.33	4.23	2.10	49.65%
14	5.10	3.41	1.69	49.56%
16	3.18	2.15	1.03	47.91%
18	1.89	1.26	0.63	50.00%
400S162-33 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	2.78	1.68	1.10	65.48%
9	2.23	1.25	0.98	78.40%
10	1.67	0.81	0.86	106.17%
11	1.10	0.39	0.71	182.05%



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### COMBINED WIND & AXIAL LOADBEARING STUD TABLES

MAXIMUM FACTORED COMPRESIVE RESISTANCE, IN kips PER STUD

400S162-43 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	4.16	2.86	1.30	45.45%
9	3.58	2.37	1.21	51.05%
10	2.97	1.85	1.12	60.54%
11	2.33	1.35	0.98	72.59%
12	1.64	0.87	0.77	88.51%
13	1.03	0.43	0.60	139.53%
400S162-54 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	7.63	5.40	2.23	41.30%
9	6.98	4.76	2.22	46.64%
10	6.25	4.07	2.18	53.56%
11	5.38	3.39	1.99	58.70%
12	4.34	2.73	1.61	58.97%
13	3.42	2.12	1.30	61.32%
14	2.61	1.58	1.03	65.19%
400S162-68 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	9.75	7.56	2.19	28.97%
9	9.07	6.77	2.30	33.97%
10	8.29	5.93	2.36	39.80%
11	7.22	5.04	2.18	43.25%
12	6.01	4.18	1.83	43.78%
13	4.89	3.37	1.52	45.10%
14	3.90	2.66	1.24	46.62%
16	2.31	1.55	0.76	49.03%



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### COMBINED WIND & AXIAL LOADBEARING STUD TABLES

MAXIMUM FACTORED COMPRESIVE RESISTANCE, IN kips PER STUD

400S162-97 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	15.46	11.62	3.84	33.05%
9	13.79	10.51	3.28	31.21%
10	12.15	9.32	2.83	30.36%
11	10.76	8.08	2.68	33.17%
12	9.25	6.88	2.37	34.45%
13	7.79	5.74	2.05	35.71%
14	6.47	4.71	1.76	37.37%
16	4.25	3.11	1.14	36.66%
18	2.67	1.95	0.72	36.92%
600S162-33 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	4.30	2.78	1.52	54.68%
9	3.92	2.53	1.39	54.94%
10	3.50	2.26	1.24	54.87%
11	3.04	1.94	1.10	56.70%
12	2.54	1.60	0.94	58.75%
13	2.02	1.24	0.78	62.90%
14	1.48	0.88	0.60	68.18%



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## A Comparison To Conventional LSF Sections

### COMBINED WIND & AXIAL LOADBEARING STUD TABLES

MAXIMUM FACTORED COMPRESIVE RESISTANCE, IN kips PER STUD

600S162-43 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	5.64	4.13	1.51	36.56%
9	5.25	3.87	1.38	35.66%
10	4.82	3.57	1.25	35.01%
11	4.34	3.23	1.11	34.37%
12	3.83	2.84	0.99	34.86%
13	3.28	2.43	0.85	34.98%
14	2.73	2.00	0.73	36.50%
16	1.62	1.16	0.46	39.66%
18	0.60	0.39	0.21	53.85%
600S162-54 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	8.29	7.32	0.97	13.25%
9	7.91	7.05	0.86	12.20%
10	7.49	6.75	0.74	10.96%
11	7.02	6.40	0.62	9.69%
12	6.49	5.93	0.56	9.44%
13	5.93	5.39	0.54	10.02%
14	5.38	4.82	0.56	11.62%
16	4.17	3.66	0.51	13.93%
18	3.03	2.56	0.47	18.36%
20	1.97	1.61	0.36	22.36%



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## A Comparison To Conventional LSF Sections

### COMBINED WIND & AXIAL LOADBEARING STUD TABLES

MAXIMUM FACTORED COMPRESIVE RESISTANCE, IN kips PER STUD

600S162-68 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	11.22	9.89	1.33	13.45%
9	10.96	9.60	1.36	14.17%
10	10.63	9.26	1.37	14.79%
11	10.15	8.88	1.27	14.30%
12	9.59	8.44	1.15	13.63%
13	8.95	7.82	1.13	14.45%
14	8.25	7.11	1.14	16.03%
16	6.63	5.62	1.01	17.97%
18	5.09	4.20	0.89	21.19%
20	3.60	2.94	0.66	22.45%
600S162-97 with 30 psf factored wind load spaced @ 16" on centre				
Stud Height	unsheathed Delta Stud	unsheathed "C" Stud	Difference	Difference %
8	19.67	15.45	4.22	27.31%
9	19.33	15.11	4.22	27.93%
10	18.91	14.71	4.20	28.55%
11	18.40	14.25	4.15	29.12%
12	17.45	13.72	3.73	27.19%
13	16.44	13.12	3.32	25.30%
14	15.29	12.37	2.92	23.61%
16	12.45	10.14	2.31	22.78%
18	9.71	7.94	1.77	22.29%
20	7.32	5.98	1.34	22.41%



## A Comparison To Conventional LSF Sections

### MAXIMUM SINGLE SPAN HEIGHT FOR WIND BEARING STUDS IN FEET

DEFLECTION @ L/360, 16" ON CENTER, 30 psf SPECIFIED WIND LOAD

S-T-U-F Designator	Delta Stud	"C" Stud	Difference	Difference %
362S125-33	8.20	7.70	0.50	6.49%
362S125-43	8.90	8.40	0.50	5.95%
362S162-33	8.60	8.40	0.20	2.38%
362S162-43	9.40	9.20	0.20	2.17%
362S162-54	10.10	9.80	0.30	3.06%
362S162-68	10.80	10.50	0.30	2.86%
362S162-97	11.90	11.60	0.30	2.59%
400S125-33	8.80	8.30	0.50	6.02%
400S125-43	9.50	9.00	0.50	5.56%
400S162-33	9.30	9.10	0.20	2.20%
400S162-43	10.10	9.90	0.20	2.02%
400S162-54	10.80	10.60	0.20	1.89%
400S162-68	11.60	11.40	0.20	1.75%
400S162-97	12.90	12.60	0.30	2.38%
600S125-33	12.30	11.40	0.90	7.89%
600S125-43	13.30	12.50	0.80	6.40%
600S162-33	12.80	12.50	0.30	2.40%
600S162-43	14.00	13.60	0.40	2.94%
600S162-54	15.00	14.60	0.40	2.74%
600S162-68	16.10	15.70	0.40	2.55%
600S162-97	17.90	17.40	0.50	2.87%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>800S162-43</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
9	299	268	31	11.57%
10	218	196	22	11.22%
11	164	147	17	11.56%
12	126	113	13	11.50%
13	99	89	10	11.24%
14	79	71	8	11.27%
15	65	58	7	12.07%
<b>800S162-54</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
9	370	333	37	11.11%
10	269	243	26	10.70%
11	202	182	20	10.99%
12	156	141	15	10.64%
13	123	111	12	10.81%
14	98	89	9	10.11%
15	80	72	8	11.11%
16	66	59	7	11.86%
17	55	49	6	12.24%
<b>800S162-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
11	249	231	18	7.79%
12	192	178	14	7.87%
13	151	140	11	7.86%
14	121	112	9	8.04%
15	98	91	7	7.69%
16	81	75	6	8.00%
17	67	63	4	6.35%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>800S162-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
12	260	245	15	6.12%
13	205	193	12	6.22%
14	164	154	10	6.49%
15	133	126	7	5.56%
16	110	103	7	6.80%
17	91	86	5	5.81%
18	77	73	4	5.48%
19	66	62	4	6.45%
20	56	53	3	5.66%
<b>800S200-43</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
10	253	231	22	9.52%
11	190	174	16	9.20%
12	146	134	12	8.96%
13	115	105	10	9.52%
14	92	84	8	9.52%
15	75	69	6	8.70%
16	62	56	6	10.71%
<b>800S200-54</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
11	235	215	20	9.30%
12	181	166	15	9.04%
13	142	130	12	9.23%
14	114	104	10	9.62%
15	93	85	8	9.41%
16	76	70	6	8.57%
17	64	58	6	10.34%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>800S200-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
12	223	205	18	8.78%
13	176	162	14	8.64%
14	141	129	12	9.30%
15	114	105	9	8.57%
16	94	87	7	8.05%
17	79	72	7	9.72%
18	66	61	5	8.20%
<b>800S200-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
13	240	222	18	8.11%
14	192	178	14	7.87%
15	156	145	11	7.59%
16	129	119	10	8.40%
17	107	99	8	8.08%
18	90	84	6	7.14%
19	77	71	6	8.45%
20	66	61	5	8.20%
<b>1000S162-54</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
13	206	185	21	11.35%
14	165	148	17	11.49%
15	134	120	14	11.67%
16	111	99	12	12.12%
17	92	83	9	10.84%
18	78	70	8	11.43%
19	66	59	7	11.86%



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## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1000S162-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
14	204	189	15	7.94%
15	166	154	12	7.79%
16	136	127	9	7.09%
17	114	106	8	7.55%
18	96	89	7	7.87%
19	81	76	5	6.58%
20	70	65	5	7.69%
<b>1000S162-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	186	181	5	2.76%
17	155	151	4	2.65%
18	131	127	4	3.15%
19	111	108	3	2.78%
20	95	93	2	2.15%
21	82	80	2	2.50%
22	72	70	2	2.86%
23	63	61	2	3.28%
<b>1000S200-54</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
14	190	169	21	12.43%
15	155	138	17	12.32%
16	128	113	15	13.27%
17	106	95	11	11.58%
18	90	80	10	12.50%
19	76	68	8	11.76%
20	65	58	7	12.07%



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## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1000S200-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
13	294	270	24	8.89%
14	236	216	20	9.26%
15	191	176	15	8.52%
16	158	145	13	8.97%
17	132	121	11	9.09%
18	111	102	9	8.82%
19	94	86	8	9.30%
20	81	74	7	9.46%
21	70	64	6	9.38%
22	61	56	5	8.93%
<b>1000S200-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	217	206	11	5.34%
17	181	172	9	5.23%
18	152	145	7	4.83%
19	129	123	6	4.88%
20	111	105	6	5.71%
21	96	91	5	5.49%
22	83	79	4	5.06%
23	73	69	4	5.80%
24	64	61	3	4.92%
25	57	54	3	5.56%
26	51	48	3	6.25%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1000S250-54</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
13	266	255	11	4.31%
14	213	204	9	4.41%
15	173	166	7	4.22%
16	142	137	5	3.65%
17	119	114	5	4.39%
18	100	96	4	4.17%
19	85	82	3	3.66%
20	73	70	3	4.29%
21	63	60	3	5.00%
22	55	53	2	3.77%
<b>1000S250-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
14	264	256	8	3.13%
15	214	208	6	2.88%
16	177	171	6	3.51%
17	147	143	4	2.80%
18	124	120	4	3.33%
19	105	102	3	2.94%
20	90	88	2	2.27%
21	78	76	2	2.63%
22	68	66	2	3.03%
23	59	58	1	1.72%
24	52	51	1	1.96%
25	46	45	1	2.22%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1000S250-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	243	237	6	2.53%
17	203	198	5	2.53%
18	171	167	4	2.40%
19	145	142	3	2.11%
20	125	122	3	2.46%
21	108	105	3	2.86%
22	94	91	3	3.30%
23	82	80	2	2.50%
24	72	70	2	2.86%
25	64	62	2	3.23%
26	57	55	2	3.64%
<b>1000S300-54</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
12	375	343	32	9.33%
13	295	270	25	9.26%
14	236	216	20	9.26%
15	192	176	16	9.09%
16	158	145	13	8.97%
17	132	121	11	9.09%
18	111	102	9	8.82%
19	94	87	7	8.05%
20	81	74	7	9.46%
21	70	64	6	9.38%
22	61	56	5	8.93%
23	53	49	4	8.16%
24	47	43	4	9.30%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1000S300-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
14	301	275	26	9.45%
15	245	224	21	9.38%
16	202	185	17	9.19%
17	168	154	14	9.09%
18	142	130	12	9.23%
19	120	110	10	9.09%
20	103	94	9	9.57%
21	89	82	7	8.54%
22	78	71	7	9.86%
23	68	62	6	9.68%
24	60	55	5	9.09%
25	53	48	5	10.42%
<b>1000S300-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
17	233	220	13	5.91%
18	196	185	11	5.95%
19	167	158	9	5.70%
20	143	135	8	5.93%
21	123	117	6	5.13%
22	107	102	5	4.90%
23	94	89	5	5.62%
24	83	78	5	6.41%
25	73	69	4	5.80%
26	65	62	3	4.84%
27	58	55	3	5.45%
28	52	49	3	6.12%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1200S162-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
14	317	290	27	9.31%
15	258	236	22	9.32%
16	212	194	18	9.28%
17	177	162	15	9.26%
18	149	137	12	8.76%
19	127	116	11	9.48%
20	109	100	9	9.00%
21	94	86	8	9.30%
22	82	75	7	9.33%
23	71	65	6	9.23%
24	63	58	5	8.62%
25	56	51	5	9.80%
<b>1200S162-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	290	283	7	2.47%
17	242	236	6	2.54%
18	204	199	5	2.51%
19	173	169	4	2.37%
20	149	145	4	2.76%
21	128	125	3	2.40%
22	112	109	3	2.75%
23	98	95	3	3.16%
24	86	84	2	2.38%
25	76	74	2	2.70%
26	68	66	2	3.03%
27	60	59	1	1.69%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1200S200-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	244	221	23	10.41%
17	203	184	19	10.33%
18	171	155	16	10.32%
19	145	132	13	9.85%
20	125	113	12	10.62%
21	108	98	10	10.20%
22	94	85	9	10.59%
23	82	74	8	10.81%
24	72	65	7	10.77%
25	64	58	6	10.34%
26	57	51	6	11.76%
27	51	46	5	10.87%
<b>1200S200-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
17	279	267	12	4.49%
18	235	225	10	4.44%
19	200	191	9	4.71%
20	171	164	7	4.27%
21	148	142	6	4.23%
22	129	123	6	4.88%
23	113	108	5	4.63%
24	99	95	4	4.21%
25	88	84	4	4.76%
26	78	75	3	4.00%
27	70	67	3	4.48%
28	62	60	2	3.33%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1200S250-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	271	253	18	7.11%
17	226	211	15	7.11%
18	190	178	12	6.74%
19	162	151	11	7.28%
20	139	130	9	6.92%
21	120	112	8	7.14%
22	104	97	7	7.22%
23	91	85	6	7.06%
24	80	75	5	6.67%
25	71	66	5	7.58%
26	63	59	4	6.78%
27	56	53	3	5.66%
28	50	47	3	6.38%
<b>1200S250-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
19	223	219	4	1.83%
20	191	187	4	2.14%
21	165	162	3	1.85%
22	144	141	3	2.13%
23	126	123	3	2.44%
24	111	108	3	2.78%
25	98	96	2	2.08%
26	87	85	2	2.35%
27	78	76	2	2.63%
28	70	68	2	2.94%
29	63	61	2	3.28%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1200S300-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
16	308	285	23	8.07%
17	257	238	19	7.98%
18	216	200	16	8.00%
19	184	170	14	8.24%
20	158	146	12	8.22%
21	136	126	10	7.94%
22	118	110	8	7.27%
23	104	96	8	8.33%
24	91	84	7	8.33%
25	81	75	6	8.00%
26	72	66	6	9.09%
27	64	59	5	8.47%
<b>1200S300-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
19	254	244	10	4.10%
20	218	209	9	4.31%
21	188	181	7	3.87%
22	164	157	7	4.46%
23	143	137	6	4.38%
24	126	121	5	4.13%
25	112	107	5	4.67%
26	99	95	4	4.21%
27	89	85	4	4.71%
28	79	76	3	3.95%
29	72	69	3	4.35%
30	65	62	3	4.84%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1400S162-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
18	219	195	24	12.31%
19	187	166	21	12.65%
20	160	142	18	12.68%
21	138	123	15	12.20%
22	120	107	13	12.15%
23	105	94	11	11.70%
24	93	82	11	13.41%
25	82	73	9	12.33%
26	73	65	8	12.31%
27	65	58	7	12.07%
28	58	52	6	11.54%
<b>1400S162-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
20	220	211	9	4.27%
21	190	182	8	4.40%
22	165	158	7	4.43%
23	145	138	7	5.07%
24	127	122	5	4.10%
25	113	108	5	4.63%
26	100	96	4	4.17%
27	89	86	3	3.49%
28	80	77	3	3.90%
29	72	69	3	4.35%
30	65	62	3	4.84%
31	59	57	2	3.51%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1400S200-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
19	212	188	24	12.77%
20	182	161	21	13.04%
21	157	139	18	12.95%
22	137	121	16	13.22%
23	120	106	14	13.21%
24	105	93	12	12.90%
25	93	82	11	13.41%
26	83	73	10	13.70%
27	74	65	9	13.85%
28	66	59	7	11.86%
29	60	53	7	13.21%
<b>1400S200-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
20	251	236	15	6.36%
21	217	204	13	6.37%
22	189	178	11	6.18%
23	165	155	10	6.45%
24	145	137	8	5.84%
25	129	121	8	6.61%
26	114	108	6	5.56%
27	102	96	6	6.25%
28	92	86	6	6.98%
29	82	78	4	5.13%
30	74	70	4	5.71%
31	68	63	5	7.94%
32	61	58	3	5.17%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1400S250-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
19	234	215	19	8.84%
20	201	184	17	9.24%
21	174	159	15	9.43%
22	151	138	13	9.42%
23	132	121	11	9.09%
24	116	106	10	9.43%
25	103	94	9	9.57%
26	91	84	7	8.33%
27	82	75	7	9.33%
28	73	67	6	8.96%
29	66	60	6	10.00%
<b>1400S250-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
21	240	232	8	3.45%
22	209	202	7	3.47%
23	183	177	6	3.39%
24	161	156	5	3.21%
25	142	138	4	2.90%
26	127	122	5	4.10%
27	113	109	4	3.67%
28	101	98	3	3.06%
29	91	88	3	3.41%
30	82	80	2	2.50%
31	75	72	3	4.17%
32	68	66	2	3.03%
33	62	60	2	3.33%



## A Comparison To Conventional LSF Sections

### FACTORED UNIFORMLY DISTRIBUTED SINGLE-SPAN JOIST LOAD IN lb/ft

DEFLECTION @ L/360, 12" ON CENTER

<b>1400S300-68</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
19	265	228	37	16.23%
20	227	196	31	15.82%
21	196	169	27	15.98%
22	171	147	24	16.33%
23	149	129	20	15.50%
24	131	113	18	15.93%
25	116	100	16	16.00%
26	103	89	14	15.73%
27	92	80	12	15.00%
28	83	71	12	16.90%
29	75	64	11	17.19%
30	67	58	9	15.52%
<b>1400S300-97</b>				
<b>Span In Feet</b>	<b>Mega Joist</b>	<b>"C" Joist</b>	<b>Difference</b>	<b>Difference %</b>
22	237	222	15	6.76%
23	207	194	13	6.70%
24	183	171	12	7.02%
25	162	151	11	7.28%
26	144	135	9	6.67%
27	128	120	8	6.67%
28	115	108	7	6.48%
29	103	97	6	6.19%
30	93	88	5	5.68%
31	85	79	6	7.59%
32	77	72	5	6.94%
33	70	66	4	6.06%



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