



The Only Cold Formed Steel Truss Designed Specifically for Flat Roof and Floor Applications

ADVANT Bar Joist Replacement



Why ADVANT instead of Bar Joist?

Cold-formed steel trusses provide enormous design flexibility that does not exist with hot-rolled heavy steel joists. Unlimited depth and spacing combinations allow a customized and engineered solution that is built around project loading and deflection criteria. In addition, end bearing conditions (top-chord, mid-chord, ledger supported, etc.) can be tailored around project-specific requirements.

Conversion LOAD TABLES

Tables are to be used for basic load carrying comparison for replacement of K-Series and LH Series joists. All Advant cold-formed steel trusses will be designed for actual spans, depth & loads specified by building designer and/or project Engineer-Of-Record. Individual truss designs, signed & sealed by a registered Professional Engineer, will be provided.

The **BLACK** figures in the Load Tables represent the TOTAL uniform load carrying capacity (PLF). The **RED** figures represent the TOTAL uniform load to meet L/360 deflection criteria (PLF).

Floor applications require 600S162-33 strongbacks at approximately 10'-0" on-center. Roof applications will require a bottom chord lateral and diagonal restraint system.

All top chords are assumed to be continuously sheathed. No allowance for mechanical units, snow drift, etc. has been included in the load tables. Floor applications with stack loads from above may require additional reinforcement at bearing supports.

For additional span/depth/spacing/loading combinations and quotations, including increased capacity and/or span, contact Advant Steel (www.advantsteel.com).



K Series to ADVANT - Conversion LOAD TABLE

STANDARD LOAD TABLE FOR **ADVANT** PARALLEL CHORD TRUSSES. Loads shown in Pounds Per Linear Foot (plf)

ADVANT Designation	12T-43	12T-68	14T-43	14T-68	16T-43	16T-68	18T-43	18T-68
Depth (in.)	12	12	14	14	16	16	18	18
Approx. Wt (lbs./ft.)	4.2	5.9	4.2	5.9	4.3	6.1	4.4	6.1
Span (ft.)								
10	576 576	810 810						
11	469 469	716 716						
12	379 379	590 590						
13	329 329	515 515						
14	300 300	470 470	356 356	555 555				
15	247 247	391 391	298 298	469 469				
16	237 237	380 380	288 288	466 466	340 340	550 550		
17	206 198	329 327	250 250	400 400	292 292	470 470		
18	178 168	284 275	214 214	341 341	248 248	398 398	282 282	450 450
19	163 145	260 246	195 195	312 308	227 227	363 363	257 257	412 412
20	150 122	240 206	180 177	289 245	210 210	338 338	240 240	385 385
21	134 108	216 177	161 151	261 211	190 190	307 307	217 217	351 351
22	128 94	206 151	155 132	254 184	184 178.5	299 290	210 210	340 340
23		186 132	140 117	228 161	165 156	269 253	189 189	310 310
24		166 116	125 102	202 142	147 131	237 223	168 168	271 271
25			116 91	188 125	136 122	221 197	156 156	252 252
26			109 81	176 112	128 108	207 175	146 148	237 228
27				164 100	118 97	194 157	136 126	223 203
28				157 89	114 87	185 141	131 112	213 183
29					105 78	173 127	121 102	200 164
30					96 70	157 114	111 91	181 148
31					90 64	147 104	104 79	170 135
32						140 94	99 72	162 122
33							93 69	153 112
34								146 102
35								139 94
36								128 86

- This Span Table is intended for reference only; **ADVANT** parallel chord trusses are available in virtually any span/depth; Consult **ADVANT** or your local **ADVANT** fabricator

- Loads given are the TOTAL safe uniformly distributed load carrying capacity in pounds per lin-ft of ASD T-Series **ADVANT** Parallel Chord Trusses

- The **BLACK** figures in the Load Table Represent the TOTAL uniform load carrying capacity (PLF).

- The **RED** figures represent the TOTAL uniform load to meet L/360 deflection criteria (PLF).

- 600S162-43 Strongbacks should be used at max 10' oc along Truss span for reduced vibration



LH Series to ADVANT - Conversion LOAD TABLE

STANDARD LOAD TABLE FOR **ADVANT** PARALLEL CHORD TRUSSES. Loads shown in Pounds Per Linear Foot (plf)

Truss ID	Weight (lb/ft)	Depth in Inches	SPAN IN FEET							
			30	32	34	36	38	40	42	44
18T-43	4.2	18	111 91	99 72	89 60	78 50				
18T-54	4.9	18	153 115	136 95	123 79	107 67				
18T-68	5.9	18	181 148	162 122	146 102	128 86				
20T-43	4.2	20	126 110	112 90	101 76	88 64	80 54	73 46		
20T-54	5.0	20	172 145	154 120	139 100	122 84	110 72	101 61		
20T-68	5.9	20	204 187	183 154	165 129	144 108	131 92	120 79		
24T-43	4.3	24	153 153	135 135	123 112	108 94	98 80	90 69	81 60	74 52
24T-54	5.1	24	210 210	186 177	170 148	149 125	135 106	124 91	112 79	102 68
24T-68	6.1	24	250 250	221 221	201 191	178 161	161 137	148 118	133 102	122 88
Truss ID	Weight (lb/ft)	Depth in Inches	SPAN IN FEET							
			46	48	50	52	54	56	58	60
28T-54	5.5	28	113 83	103 73	95 65	86 58				
28T-68	6.5	28	134 108	123 95	113 84	103 75				
32T-54	5.5	32	130 110	119 97	110 86	100 76	94 68			
32T-68	6.5	32	155 143	142 126	131 111	118 99	111 89			
36T-54	5.5	36	147 141	135 124	124 110	113 98	106 87	94 78		
36T-68	6.5	36	175 175	160 160	148 143	134 127	126 113	111 102		
40T-54	5.5	40	151 151	142 142	138 137	126 122	118 109	105 98	97 88	93 80
40T-68	6.5	40	194 194	168 168	166 166	149 149	140 140	125 125	116 114	110 103
44T-54	5.5	44	180 180	156 156	152 152	138 138	130 130	116 116	107 107	103 97
44T-68	6.5	44	186 186	184 184	173 173	160 160	154 154	137 137	127 127	122 122
48T-54	5.8	48	169 169	168 168	160 160	145 145	137 137	126 126	117 117	112 112
48T-68	6.8	48	186 186	184 184	173 173	164 164	157 157	149 149	138 138	133 133

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Section 05 44 00 Cold Formed Steel Trusses

