

FLEXBEAM LOAD TABLE

Allowable Uniform Loads In Pounds Per Square Foot

Thickness	# Spans	Span Length																			
		3'	3' 6"	4'	4' 6"	5'	5' 6"	6'	6' 6"	7'	7' 6"	8'	8' 6"	9'	9' 6"	10'	10' 6"	11'	11' 6"	12'	12' 6"
18 Ga STL.	1	500	367	281	222	180	148	125	106	91	80	70	62	55	49	45	40	37	34	31	28
	Defl.	0.13"	0.17"	0.23"	0.29"	0.36"	0.43"	0.51"	0.60"	0.70"	0.80"	0.91"	1.03"	1.15"	1.28"	1.42"	1.57"	1.72"	1.88"	2.05"	2.22"
20 Ga STL.	3	620	455	348	275	223	184	155	132	113	99	87	77	68	61	55	50	46	42	38	35
	Defl.	0.08"	0.11"	0.15"	0.19"	0.23"	0.28"	0.34"	0.40"	0.46"	0.53"	0.60"	0.68"	0.76"	0.85"	0.94"	1.03"	1.13"	1.24"	1.35"	1.46"
22 Ga STL.	1	347	255	195	154	124	103	86	73	63	55	48	43	38	34	31	28	25	23	21	20
	Defl.	0.13"	0.17"	0.23"	0.29"	0.35"	0.43"	0.51"	0.60"	0.69"	0.79"	0.90"	1.02"	1.14"	1.27"	1.41"	1.56"	1.71"	1.87"	2.03"	2.21"
24 Ga STL.	3	431	317	242	191	155	128	107	91	79	69	60	53	48	43	38	35	32	29	27	24
	Defl.	0.08"	0.11"	0.15"	0.19"	0.23"	0.28"	0.33"	0.39"	0.46"	0.52"	0.59"	0.67"	0.75"	0.84"	0.93"	1.02"	1.12"	1.23"	1.34"	1.45"
.032" ALUM.	1	346	254	194	153	124	103	86	73	63	55	48	43	38	34	31	28	25	23	21	19
	Defl.	0.16"	0.22"	0.29"	0.37"	0.45"	0.55"	0.65"	0.76"	0.88"	1.02"	1.16"	1.30"	1.46"	1.63"	1.80"	1.99"	2.18"	2.39"	2.60"	2.82"
.040" ALUM.	3	429	315	241	190	154	127	107	91	78	68	60	53	47	42	38	35	31	29	26	24
	Defl.	0.11"	0.15"	0.19"	0.24"	0.30"	0.36"	0.43"	0.51"	0.59"	0.68"	0.77"	0.87"	0.98"	1.09"	1.21"	1.33	1.46"	1.59"	1.74"	1.88"
24 Ga STL.	1	256	188	144	114	92	76	64	54	47	41	36	32	28	25	23	21	19	17	16	14
	Defl.	0.16"	0.22"	0.28"	0.36"	0.44"	0.53"	0.64"	0.75"	0.87"	0.99"	1.13"	1.28	1.43"	1.59"	1.77"	1.95"	2.14"	2.34"	2.54"	2.76"
.032" ALUM.	3	317	233	178	141	114	94	79	67	58	50	44	39	35	31	28	25	23	21	19	18
	Defl.	0.11"	0.14"	0.19"	0.24"	0.29"	0.36"	0.42"	0.50"	0.58"	0.66"	0.75"	0.85"	0.95"	1.06"	1.18"	1.30"	1.43"	1.56"	1.70"	1.84"
.040" ALUM.	1	153		86		55		38		28		21		17		12					
	3	190		106		68		47		34		26		21		17		14			
.032" ALUM.	1	206		116		74		51		38		29		22		16		12			
	3	257		144		92		64		47		36		28		23		19		16	

Stress governing, 37 ksi yield for 18, 20 Ga; 50 ksi for 22, 24 and 26 Ga. (PSF)