



QUALITY SINCE 1985
Design, Manufacture And Installation Of Theatrical Equipment Worldwide

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ISO 9001 Certified

ALLOWABLE BATTEN LOADS

Span between lift lines	8'	9'	10'	11'	12'
1-1/4" Schedule 40 Pipe 2.27 Lb/Ft					
Uniform load at 1/3 of yield ¹ (lbs/ft)	35	28	22	18	15
Uniform load at 1/360 deflection ² (lbs/ft)	31	22	16	12	9
Point load at 1/3 of yield ³ (lbs)	119	107	96	88	82
Point load at 1/360 deflection ⁴ (lbs)	82	65	52	43	36
1-1/2" Schedule 40 Pipe 2.72 Lb/Ft					
Uniform load at 1/3 of yield ¹ (lbs/ft)	49	39	31	25	24
Uniform load at 1/360 deflection ² (lbs/ft)	49	34	25	19	15
Point load at 1/3 of yield ³ (lbs)	165	147	133	121	112
Point load at 1/360 deflection ⁴ (lbs)	130	103	83	69	58
1-1/2" Schedule 80 Pipe 3.63 Lb/Ft					
Uniform load at 1/3 of yield ¹ (lbs/ft)	62	48	39	32	26
Uniform load at 1/360 deflection ² (lbs/ft)	62	43	32	24	18
Point load at 1/3 of yield ³ (lbs)	209	186	169	154	142
Point load at 1/360 deflection ⁴ (lbs)	164	130	105	87	73
2" Schedule 40 Pipe 3.65 Lb/Ft					
Uniform load at 1/3 of yield ¹ (lbs/ft)	86	67	54	44	37
Uniform load at 1/360 deflection ² (lbs/ft)	105	74	54	41	31
Point load at 1/3 of yield ³ (lbs)	283	253	228	208	192
Point load at 1/360 deflection ⁴ (lbs)	279	221	179	148	124
<p>(1) Allowable load in pounds per foot of batten at 1/3 of yield. (2) Allowable uniform load with a maximum deflection of 1/360 between pickup lines. (3) Maximum concentrated load in pounds at midpoint between pickup lines at 1/3 yield. (4) Concentrated load at midpoint between pickup lines with deflection of 1/360.</p>					
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