

# **ALGRIP™** Slip-Resistant Floor Plate Load Table

## A-36 Carbon Steel Floor Plate

Thickness (Inches)	Span													Maximum span (in) @ 100 psf & 1/4" deflection
	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	
1/8"	333	148	83	53	37									19
	0.13	0.30	0.53	0.83	1.19									
3/16"	750	333	188	120	83	61	47							26
	0.09	0.20	0.35	0.55	0.79	1.08	1.41							
1/4"	1,333	593	333	213	148	109	83	66	53					32
	0.07	0.15	0.26	0.41	0.60	0.81	1.06	1.34	1.66					
5/16"	2,083	926	521	333	231	170	130	103	83	69				38
	0.05	0.12	0.21	0.33	0.48	0.65	0.85	1.07	1.32	1.60				
3/8"	3,000	1,333	750	480	333	254	188	148	120	99	83			43
	0.04	0.10	0.18	0.28	0.40	0.54	0.71	0.89	1.10	1.34	1.59			
1/2"	5,333	2,370	1,333	853	593	435	333	263	213	176	148	126		54
	0.03	0.07	0.13	0.21	0.30	0.41	0.53	0.67	0.83	1.00	1.19	1.40		
5/8"	8,333	3,704	2,083	1,333	926	680	521	412	333	275	231	197	170	64
	0.03	0.06	0.11	0.17	0.24	0.32	0.42	0.54	0.66	0.80	0.95	1.12	1.30	
3/4"	12,000	5,333	3,000	1,920	1,333	980	750	593	480	397	333	284	245	73
	0.02	0.05	0.09	0.14	0.20	0.27	0.35	0.45	0.55	0.67	0.79	0.93	1.08	

Values shown are for simple spans  
Elastic modulus = 29,000,000 psi  
Yield strength = 36,000 psi  
Safety factor = 2.25

## 304 Stainless Steel Floor Plate

1/8"	278	123	69	44	31									19
	0.11	0.26	0.46	0.71	1.03									
3/16"	625	278	156	100	69	50	39							26
	0.08	0.17	0.30	0.48	0.69	0.93	1.22							
1/4"	1,111	494	278	178	123	91	69	55	44					32
	0.06	0.13	0.23	0.36	0.51	0.70	0.91	1.16	1.43					
5/16"	1,736	722	434	278	193	142	109	86	69	57	48			43
	0.05	0.10	0.18	0.29	0.41	0.56	0.73	0.93	1.14	1.38	1.65			
3/8"	2,500	1,111	625	400	278	204	156	123	100	83	69	59	51	53
	0.04	0.09	0.15	0.24	0.34	0.47	0.61	0.77	0.95	1.15	1.37	1.61	1.87	

Values shown are for simple spans  
Elastic modulus = 28,000,000 psi  
Yield strength = 30,000 psi  
Safety factor = 2.25

## 3003 Aluminum Floor Plate

1/8"	167	74	42	27	<div>Values shown are for simple spans</div> <div>Elastic modulus = 12,000,000 psi</div> <div>Yield strength = 18,000 psi</div> <div>Safety factor = 2.25</div>										15
	0.16	0.36	0.64	1.00											
3/16"	375	167	94	60	42	31									21
	0.11	0.24	0.43	0.67	0.96	1.31									
1/4"	667	296	167	107	74	54	42	33							26
	0.08	0.18	0.32	0.50	0.72	0.98	1.28	1.62							
5/16"	1,500	667	375	240	167	122	94	74	60						35
	0.05	0.12	0.21	0.33	0.48	0.65	0.85	1.08	1.33						
3/8"	2,667	1,185	667	427	296	218	167	132	107	88	74				43
	0.04	0.09	0.16	0.25	0.36	0.49	0.64	0.81	1.00	1.21	1.44				

Allowable Loads (pounds per square foot)

Deflection @ Allowable Load (in.)