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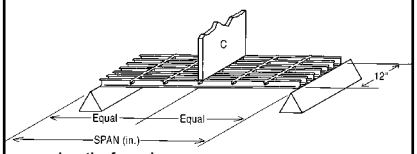
C Concentrated line load – lbs/ft of width
ΔC Concentrated line load deflection (in.)



length of panel

PEDESTRIAN SERIES AQUA GRATE CONCENTRATED LINE LOAD TABLE - DEFLECTIONS IN INCHES

CLEAR SPAN (in)	LOAD (LBS/FT of Width)								MAXIMUM RECOMMENDED LOAD (lbs/ft)	ULTIMATE CAPACITY (lbs/ft)
	STYLE	50	100	200	300	500	1,000	2,000		
12	T1210	<.01	<.01	<.01	<.01	0.01	0.04	0.06	4590	9180
	T1215	<.01	<.01	<.01	<.01	0.01	0.02	0.03	5900	11800
18	T1210	<.01	0.01	0.02	0.03	0.05	0.09	0.19	4350	8700
	T1215	<.01	<.01	0.01	0.01	0.02	0.04	0.07	5900	11800
24	T1210	0.01	0.02	0.04	0.06	0.09	0.19	0.38	3260	6520
	T1215	<.01	<.01	0.01	0.02	0.03	0.07	0.14	4720	9440
30	T1210	0.02	0.04	0.07	0.11	0.19	0.36	—	2610	5220
	T1215	0.01	0.01	0.03	0.04	0.06	0.13	0.25	3770	7540
36	T1210	0.03	0.06	0.12	0.19	0.31	—	—	2170	4340
	T1215	0.01	0.02	0.04	0.06	0.11	0.21	0.42	31470	6280
42	T1210	0.05	0.10	0.19	0.29	0.49	—	—	1860	3720
	T1215	0.02	0.03	0.06	0.10	0.16	0.32	—	2700	5400
48	T1210	0.07	0.14	0.29	0.43	—	—	—	1630	3260
	T1215	0.02	0.05	0.10	0.14	0.24	0.48	—	2360	4720
54	T1215	0.03	0.07	0.13	0.20	0.33	—	—	2100	4200
60	T1215	0.04	0.09	0.18	0.27	0.45	—	—	1890	3780

IMPORTANT: *Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. Safe-T-Span pedestrian grating load bars at platform edges should be full supported.*

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 2:1 factor of safety on ULTIMATE CAPACITY.
2. ULTIMATE CAPACITY represents a complete and total failure of the grating. Values are provided to illustrate the reserve strength of the grating at a given span and are NOT to be used for design. Functionality of grating is limited to MAX RECOMMENDED LOAD.
3. Walking loads, typically 50-65 PSF maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 3/8" or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 1/4" or CLEAR SPAN divided by 200.
4. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult Grating Pacific. The designer is further referenced to the ASCE Structural Plastics Design Manual.
5. All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association (ACMA).