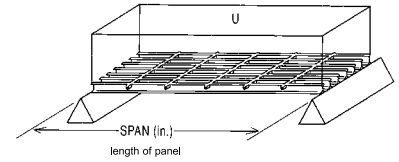


# Pedestrian Series Uniform Load Chart



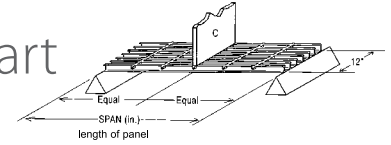
PEDESTRIAN SERIES SAFE-T-SPAN UNIFORM LOAD TABLE - DEFLECTIONS IN MILLIMETRES										
CLEAR SPAN (mm)	STYLE	LOAD (kN/m <sup>2</sup> )							MAXIMUM RECOMMENDED LOAD (kN/m <sup>2</sup> )	ULTIMATE CAPACITY (kN/m <sup>2</sup> )
		3.0	5.0	10.0	20.0	30.0	50.0	90.0		
400	T3810	< 0.3	< 0.3	0.4	0.8	1.3	2.1	3.9	100	200
	T3815	< 0.3	< 0.3	< 0.3	< 0.3	0.3	0.6	1.1	156	313
	T2510	< 0.3	< 0.3	0.3	0.7	1.1	1.9	3.4	120	240
	T2515	< 0.3	< 0.3	< 0.3	0.4	0.6	0.9	1.6	189	378
	T1210	< 0.3	< 0.3	< 0.3	0.6	0.9	1.5	2.7	168	336
	T1215	< 0.3	< 0.3	< 0.3	0.3	0.5	0.7	1.2	205	410
600	T3810	0.5	0.8	1.7	3.4	5.0	8.4		66	133
	T3815	< 0.3	< 0.3	0.6	1.2	1.8	3.1	5.6	102	204
	T2510	0.4	0.7	1.4	2.8	4.1	6.9	12.4	79	159
	T2515	< 0.3	< 0.3	0.5	1.1	1.6	2.7	4.9	123	246
	T1210	0.3	0.6	1.2	2.4	3.6	6.1	11.0	111	223
	T1215	< 0.3	< 0.3	0.5	0.9	1.3	2.2	4.0	147	293
800	T3810	1.5	2.5	5.1	10.2	—	—	—	50	99
	T3815	0.6	0.9	1.8	3.7	5.5	9.1	—	76	153
	T2510	1.3	2.1	4.3	8.5	—	—	—	60	119
	T2515	0.4	0.7	1.4	2.9	4.3	7.1	—	90	181
	T1210	1.1	1.8	3.7	7.3	11.0	—	—	83	167
	T1215	0.4	0.7	1.3	2.5	3.8	6.2	11.2	108	216
1000	T3810	3.7	6.1	12.3	—	—	—	—	35	70
	T3815	1.3	2.1	4.2	8.3	12.4	—	—	60	120
	T2510	3.1	5.1	10.3	—	—	—	—	42	84
	T2515	1.1	1.7	3.4	6.8	10.2	—	—	71	142
	T1210	2.6	4.4	8.8	—	—	—	—	59	117
	T1215	0.9	1.5	3.0	6.0	8.9	—	—	81	162
1200	T3810	7.5	12.5	—	—	—	—	—	24	48
	T3815	2.5	4.1	8.2	—	—	—	—	43	86
	T2510	6.3	10.5	—	—	—	—	—	28	57
	T2515	2.1	3.5	7.0	—	—	—	—	53	106
	T1210	5.4	9.0	—	—	—	—	—	40	80
	T1215	1.8	3.0	6.0	12.1	—	—	—	60	120
1400	T3815	4.5	7.5	—	—	—	—	—	29	57
	T2515	3.7	6.3	—	—	—	—	—	36	71
	T1215	3.2	5.4	10.8	—	—	—	—	43	86
1600	T3815	7.8	—	—	—	—	—	—	31	62
	T2515	6.3	10.6	—	—	—	—	—	26	52
	T1215	5.5	9.0	—	—	—	—	—	32	64
1800	T3815	13.0	—	—	—	—	—	—	75	151
	T2515	10.2	—	—	—	—	—	—	40	81
	T1215	8.9	—	—	—	—	—	—	31	62

*IMPORTANT: Installation should cater to 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 25mm in clip attachment areas. Safe-T-Span pedestrian grating load bars at platform edges should be fully supported.*

**NOTES:**

- 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.
- 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.
- Walking loads, typically 244-317 kNm<sup>2</sup> maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 9.5mm or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 6.4mm or CLEAR SPAN divided by 200.
- 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 factory. The designer is further referenced to the ASCE Structural Plastics Design Manual.
- All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.
- Gratings in this table are not rated for motorized vehicle traffic. For these applications, please select appropriate High Load Capacity grating.

# Pedestrian Series Concentrated Line Load Chart



**PEDESTRIAN SERIES SAFE-T-SPAN CONCENTRATED LINE LOAD TABLE - DEFLECTIONS IN MILLIMETRES**

CLEAR SPAN (mm)	STYLE	LOAD (kN/m of Width)							MAXIMUM RECOMMENDED LOAD (kN/m)	ULTIMATE CAPACITY (kN/m)
		0.7	1.5	5.0	10.0	15.0	20.0	30.0		
400	T3810	< 0.3	< 0.3	0.8	1.6	2.4	3.2	4.8	39	78
	T3815	< 0.3	< 0.3	< 0.3	0.6	1.2	1.9	3.2	60	121
	T2510	< 0.3	< 0.3	0.7	2.2	3.6	5.0	7.9	47	94
	T2515	< 0.3	< 0.3	< 0.3	0.5	0.8	1.1	1.6	72	145
	T1210	< 0.3	< 0.3	0.6	1.2	1.7	2.3	3.4	66	131
	T1215	< 0.3	< 0.3	< 0.3	0.5	0.7	1.0	1.4	85	169
600	T3810	0.3	0.7	2.3	4.5	6.8	9.1	—	30	60
	T3815	< 0.3	< 0.3	0.4	1.6	2.8	3.9	6.2	51	101
	T2510	1.0	1.1	1.7	2.6	3.4	4.2	5.9	36	72
	T2515	< 0.3	< 0.3	0.7	1.4	2.1	2.8	4.2	61	121
	T1210	< 0.3	0.5	1.6	3.2	4.8	6.4	9.6	50	100
	T1215	< 0.3	< 0.3	0.6	1.2	1.8	2.4	3.6	71	142
800	T3810	0.7	1.5	5.1	10.2	—	—	—	21	42
	T3815	< 0.3	< 0.3	1.4	3.5	5.6	7.7	11.8	39	79
	T2510	2.0	2.4	4.0	6.3	8.6	10.8	—	25	50
	T2515	< 0.3	0.4	1.5	2.9	4.4	5.9	8.9	47	94
	T1210	0.5	1.1	3.7	7.3	10.9	—	—	35	71
	T1215	< 0.3	0.4	1.2	2.5	3.7	5.0	7.5	55	110
1000	T3810	1.4	3.0	9.8	—	—	—	—	17	35
	T3815	< 0.3	0.4	3.0	6.5	10.1	—	—	30	60
	T2510	1.3	2.6	8.2	—	—	—	—	21	41
	T2515	0.4	0.8	2.8	5.5	8.2	11.0	—	36	71
	T1210	1.0	2.1	7.0	—	—	—	—	29	58
	T1215	0.3	0.7	2.3	4.7	7.0	9.3	—	42	83
1200	T3810	2.3	5.0	—	—	—	—	—	15	29
	T3815	< 0.3	1.1	5.2	11.0	—	—	—	24	47
	T2510	1.7	4.0	—	—	—	—	—	17	35
	T2515	0.7	1.4	4.6	9.2	—	—	—	28	57
	T1210	1.6	3.5	12.0	—	—	—	—	25	49
	T1215	0.6	1.2	3.9	7.9	11.8	—	—	33	66
1400	T3815	0.5	1.9	8.2	—	—	—	—	21	42
	T2515	1.0	2.2	7.2	—	—	—	—	25	50
	T1215	0.8	1.8	6.1	12.3	—	—	—	30	59
1600	T3815	1.0	3.1	12.2	—	—	—	—	20	40
	T2515	1.5	3.2	10.6	—	—	—	—	24	48
	T1215	1.2	2.7	9.1	—	—	—	—	28	56
1800	T3815	1.8	4.7	—	—	—	—	—	17	33
	T2515	2.1	4.5	—	—	—	—	—	20	40
	T1215	1.8	3.8	—	—	—	—	—	22	46

**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 25mm in clip attachment areas. Safe-T-Span pedestrian grating load bars at platform edges should be fully supported.

**NOTES:**

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