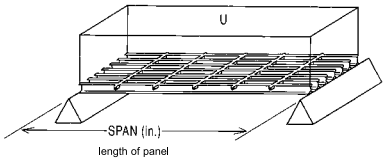
HI37 Grating Uniform Load Chart

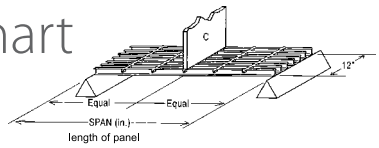


HI37 PULTRUDED SERIES UNIFORM LOAD TABLE - DEFLECTIONS IN MILLIMETRES													
CLEAR SPAN (mm)	STYLE	LOAD (kN/m²)										MAXIMUM RECOM. LOAD (kN/m²)	ULTIMATE CAPACITY (kN/m²)
		5.0	7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0		
400	HI3710	<0.3	<0.3	<0.3	<0.3	0.35	0.44	0.53	0.62	0.71	0.80	411	1235
	HI3715	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	767	2302
	HI3720	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1983	5949
	HI3725	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	2036	6109
	HI3730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	2613	7840
600	HI3710	0.42	0.62	0.83	1.25	1.66	2.08	2.49	2.91	3.33	3.74	196	590
	HI3715	<0.3	<0.3	<0.3	0.32	0.43	0.54	0.65	0.75	0.86	0.97	425	1276
	HI3720	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.34	0.38	0.43	905	2717
	HI3725	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	979	2938
	HI3730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1236	3709
800	HI3710	1.22	1.84	2.45	3.67	4.90	6.12	7.35	8.57	9.80	11.02	118	355
	HI3715	<0.3	0.44	0.58	0.88	1.17	1.46	1.75	2.04	2.33	2.63	286	860
	HI3720	<0.3	<0.3	<0.3	0.43	0.58	0.72	0.87	1.01	1.16	1.30	523	1570
	HI3725	<0.3	<0.3	<0.3	<0.3	0.33	0.41	0.50	0.58	0.66	0.74	592	1778
	HI3730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.30	0.35	0.40	0.45	737	2213
1000	HI3710	2.99	4.49	5.98	8.97	11.96	—	—	—	—	—	75	227
	HI3715	0.71	1.07	1.42	2.14	2.85	3.56	4.27	4.99	5.70	6.41	183	550
	HI3720	0.34	0.51	0.68	1.01	1.35	1.69	2.03	2.37	2.71	3.04	343	1031
	HI3725	<0.3	<0.3	0.37	0.56	0.75	0.94	1.12	1.31	1.50	1.68	406	1218
	HI3730	<0.3	<0.3	<0.3	0.35	0.46	0.58	0.70	0.81	0.93	1.04	499	1497
1200	HI3710	6.20	9.30	12.40	—	—	—	—	—	—	—	52	157
	HI3715	1.48	2.22	2.95	4.43	5.91	7.38	8.86	10.34	11.81	—	127	382
	HI3720	0.67	1.01	1.34	2.02	2.69	3.36	4.03	4.70	5.38	6.05	244	734
	HI3725	0.36	0.54	0.72	1.09	1.45	1.81	2.17	2.53	2.90	3.26	300	902
	HI3730	<0.3	0.34	0.46	0.68	0.91	1.14	1.37	1.59	1.82	2.05	365	1096
1400	HI3710	11.49	—	—	—	—	—	—	—	—	—	38	116
	HI3715	2.74	4.10	5.47	8.21	10.94	—	—	—	—	—	93	280
	HI3720	1.25	1.87	2.49	3.74	4.98	6.23	7.47	8.72	9.96	11.21	179	539
	HI3725	0.66	0.98	1.31	1.97	2.62	3.28	3.93	4.59	5.24	5.90	228	686
	HI3730	0.40	0.60	0.80	1.20	1.60	2.00	2.40	2.80	3.20	3.61	282	846
1600	HI3715	4.67	7.00	9.34	—	—	—	—	—	—	—	71	215
	HI3720	2.12	3.19	4.25	6.37	8.50	10.62	—	—	—	—	137	413
	HI3725	1.09	1.64	2.19	3.28	4.37	5.47	6.56	7.65	8.75	9.84	181	543
	HI3730	0.65	0.98	1.30	1.95	2.60	3.25	3.90	4.55	5.20	5.85	226	679
	HI3715	7.48	11.21	—	—	—	—	—	—	—	—	56	169
1800	HI3720	3.40	5.10	6.81	10.21	—	—	—	—	—	—	108	326
	HI3725	1.75	2.63	3.50	5.25	7.01	8.76	10.51	12.26	—	—	143	429
	HI3730	1.04	1.56	2.08	3.11	4.15	5.19	6.23	7.27	8.30	9.34	182	547
	HI3715	11.40	—	—	—	—	—	—	—	—	—	45	137
2000	HI3720	5.19	7.78	10.37	—	—	—	—	—	—	—	88	264
	HI3725	2.67	4.00	5.34	8.01	10.68	—	—	—	—	—	115	347
	HI3730	1.58	2.37	3.15	4.73	6.31	7.88	9.46	11.04	12.61	—	150	451
	HI3720	7.59	11.39	—	—	—	—	—	—	—	—	72	218
2200	HI3725	3.91	5.86	7.82	11.73	—	—	—	—	—	—	95	287
	HI3730	2.31	3.46	4.62	6.93	9.23	11.54	—	—	—	—	124	373
	HI3720	10.75	—	—	—	—	—	—	—	—	—	61	183
2400	HI3725	5.54	8.30	11.07	—	—	—	—	—	—	—	80	241
	HI3730	3.27	4.90	6.54	9.81	—	—	—	—	—	—	104	313
	HI4730	3.9	5.9	7.8	11.7	—	—	—	—	—	—	83	255

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 3:1 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. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact 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 ASCE Structural Plastics Design Manual.
4. Fibergrate does not recommend this product for turning wheel loads. If these conditions are expected, contact Fibergrate Engineering.
5. Fibergrate recommends a maximum deflection of 6.4 mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.
6. All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.

HI37 Grating Concentrated Line Load Chart

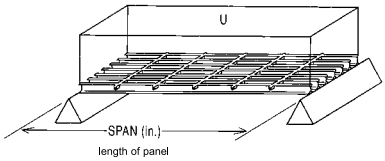


HI37 PULTRUDED SERIES LINE LOAD TABLE - DEFLECTIONS IN MILLIMETRES													
CLEAR SPAN (mm)	STYLE	LOAD (kN/m of Width)										MAXIMUM RECOM. LOAD (kN/m)	ULTIMATE CAPACITY (kN/m)
		1.5	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0		
400	HI3710	<0.3	0.35	0.71	1.42	2.12	2.83	3.54	4.25	4.96	5.67	82	247
	HI3715	<0.3	<0.3	<0.3	0.41	0.61	0.82	1.02	1.23	1.43	1.64	153	460
	HI3720	<0.3	<0.3	<0.3	<0.3	<0.3	0.32	0.40	0.48	0.56	0.64	396	1189
	HI3725	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.34	0.39	407	1221
	HI3730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	522	1568
600	HI3710	0.33	1.11	2.22	4.43	6.65	8.87	11.08	—	—	—	59	177
	HI3715	<0.3	<0.3	0.57	1.15	1.72	2.30	2.87	3.45	4.02	4.60	127	382
	HI3720	<0.3	<0.3	<0.3	0.51	0.77	1.02	1.28	1.54	1.79	2.05	271	815
	HI3725	<0.3	<0.3	<0.3	0.30	0.45	0.60	0.75	0.91	1.06	1.21	293	881
	HI3730	<0.3	<0.3	<0.3	<0.3	<0.3	0.36	0.45	0.54	0.63	0.72	370	1112
800	HI3710	0.73	2.45	4.90	9.80	—	—	—	—	—	—	47	142
	HI3715	<0.3	0.58	1.17	2.33	3.50	4.67	5.83	7.00	8.17	9.34	114	344
	HI3720	<0.3	<0.3	0.58	1.16	1.74	2.32	2.90	3.48	4.06	4.64	209	628
	HI3725	<0.3	<0.3	0.33	0.66	0.99	1.32	1.65	1.98	2.31	2.64	237	711
	HI3730	<0.3	<0.3	<0.3	0.40	0.60	0.81	1.01	1.21	1.41	1.61	295	885
1000	HI3710	1.44	4.78	9.57	—	—	—	—	—	—	—	37	113
	HI3715	0.34	1.14	2.28	4.56	6.84	9.12	11.40	—	—	—	91	275
	HI3720	<0.3	0.54	1.08	2.17	3.25	4.33	5.41	6.50	7.58	8.66	171	515
	HI3725	<0.3	<0.3	0.60	1.20	1.80	2.39	2.99	3.59	4.19	4.79	203	609
	HI3730	<0.3	<0.3	0.37	0.74	1.11	1.49	1.86	2.23	2.60	2.97	249	748
1200	HI3710	2.48	8.27	—	—	—	—	—	—	—	—	31	94
	HI3715	0.59	1.97	3.94	7.88	11.81	—	—	—	—	—	76	229
	HI3720	<0.3	0.90	1.79	3.58	5.38	7.17	8.96	10.75	12.55	—	146	440
	HI3725	<0.3	0.48	0.97	1.93	2.90	3.86	4.83	5.79	6.76	7.72	180	541
	HI3730	<0.3	0.30	0.61	1.21	1.82	2.43	3.04	3.64	4.25	4.86	219	657
1400	HI3710	3.94	—	—	—	—	—	—	—	—	—	27	81
	HI3715	0.94	3.13	6.25	12.51	—	—	—	—	—	—	65	196
	HI3720	0.43	1.42	2.85	5.69	8.54	11.38	—	—	—	—	125	377
	HI3725	<0.3	0.75	1.50	3.00	4.49	5.99	7.49	8.99	10.49	11.99	160	480
	HI3730	<0.3	0.46	0.92	1.83	2.75	3.66	4.58	5.49	6.41	7.32	197	592
1600	HI3710	5.88	—	—	—	—	—	—	—	—	—	23	71
	HI3715	1.40	4.67	9.34	—	—	—	—	—	—	—	57	172
	HI3720	0.64	2.12	4.25	8.50	—	—	—	—	—	—	110	330
	HI3725	0.33	1.09	2.19	4.37	6.56	8.75	10.94	—	—	—	144	434
	HI3730	<0.3	0.65	1.30	2.60	3.90	5.20	6.50	7.80	9.10	10.40	181	543
1800	HI3710	8.37	—	—	—	—	—	—	—	—	—	21	63
	HI3715	1.99	6.65	—	—	—	—	—	—	—	—	50	152
	HI3720	0.91	3.02	6.05	12.10	—	—	—	—	—	—	97	293
	HI3725	0.47	1.56	3.11	6.23	9.34	12.46	—	—	—	—	128	386
	HI3730	<0.3	0.92	1.85	3.69	5.54	7.38	9.23	11.07	—	—	164	492
2000	HI3710	11.48	—	—	—	—	—	—	—	—	—	18	56
	HI3715	2.73	9.12	—	—	—	—	—	—	—	—	45	137
	HI3720	1.24	4.15	8.30	—	—	—	—	—	—	—	88	264
	HI3725	0.64	2.14	4.27	8.54	—	—	—	—	—	—	115	347
	HI3730	0.38	1.26	2.52	5.05	7.57	10.09	12.61	—	—	—	150	451
2200	HI3715	3.64	12.13	—	—	—	—	—	—	—	—	41	125
	HI3720	1.66	5.52	11.04	—	—	—	—	—	—	—	80	240
	HI3725	0.85	2.84	5.69	11.37	—	—	—	—	—	—	105	316
	HI3730	0.50	1.68	3.36	6.72	10.07	—	—	—	—	—	136	410
2400	HI3715	4.73	—	—	—	—	—	—	—	—	—	38	114
	HI3720	2.15	7.17	—	—	—	—	—	—	—	—	73	220
	HI3725	1.11	3.69	7.38	—	—	—	—	—	—	—	96	289
	HI3730	0.65	2.18	4.36	8.72	—	—	—	—	—	—	125	376

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 3:1 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. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact 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 ASCE Structural Plastics Design Manual.
4. Fibergrate does not recommend this product for turning wheel loads. If these conditions are expected, contact Fibergrate Engineering.
5. Fibergrate recommends a maximum deflection of 6.4 mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.
6. All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.

HI47 Grating Uniform Load Chart

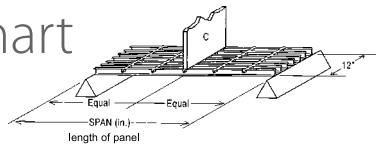


HI47 PULTRUDED SERIES UNIFORM LOAD TABLE - DEFLECTIONS IN MILLIMETRES													
CLEAR SPAN (mm)	STYLE	LOAD (kN/m²)										MAXIMUM RECOM. LOAD (kN/m²)	ULTIMATE CAPACITY (kN/m²)
		5.0	7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0		
400	HI4710	<0.3	<0.3	<0.3	0.31	0.42	0.52	0.63	0.73	0.84	0.94	346	1038
	HI4715	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	645	1935
	HI4720	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1671	5013
	HI4725	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1715	5147
	HI4730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	2201	6604
600	HI4710	0.49	0.74	0.98	1.47	1.96	2.45	2.94	3.43	3.92	4.41	165	496
	HI4715	<0.3	<0.3	<0.3	0.38	0.51	0.64	0.77	0.90	1.02	1.15	357	1072
	HI4720	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.34	0.40	0.46	0.51	763	2290
	HI4725	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.30	825	2475
	HI4730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1041	3124
800	HI4710	1.45	2.17	2.89	4.34	5.78	7.23	8.67	10.12	11.56	—	99	298
	HI4715	0.35	0.52	0.69	1.04	1.38	1.73	2.08	2.42	2.77	3.12	240	722
	HI4720	<0.3	<0.3	0.34	0.52	0.69	0.86	1.03	1.20	1.38	1.55	441	1323
	HI4725	<0.3	<0.3	<0.3	<0.3	0.39	0.49	0.59	0.69	0.78	0.88	499	1498
	HI4730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.36	0.42	0.48	0.54	621	1864
1000	HI4710	3.53	5.29	7.06	10.59	—	—	—	—	—	—	63	191
	HI4715	0.85	1.27	1.69	2.54	3.38	4.23	5.07	5.92	6.76	7.61	154	462
	HI4720	0.40	0.60	0.80	1.20	1.61	2.01	2.41	2.81	3.21	3.61	289	869
	HI4725	<0.3	0.33	0.44	0.67	0.89	1.11	1.33	1.55	1.78	2.00	342	1026
	HI4730	<0.3	<0.3	<0.3	0.41	0.55	0.69	0.83	0.97	1.10	1.24	420	1261
1200	HI4710	7.32	10.98	—	—	—	—	—	—	—	—	44	132
	HI4715	1.75	2.63	3.50	5.26	7.01	8.76	10.51	12.27	—	—	107	321
	HI4720	0.80	1.20	1.60	2.39	3.19	3.99	4.79	5.58	6.38	7.18	206	619
	HI4725	0.43	0.64	0.86	1.29	1.72	2.15	2.58	3.01	3.44	3.87	253	760
	HI4730	<0.3	0.41	0.54	0.81	1.08	1.35	1.62	1.89	2.16	2.44	307	923
1400	HI4715	3.25	4.87	6.49	9.74	—	—	—	—	—	—	78	236
	HI4720	1.48	2.22	2.96	4.43	5.91	7.39	8.87	10.34	11.82	—	151	454
	HI4725	0.78	1.17	1.56	2.33	3.11	3.89	4.67	5.45	6.23	7.00	192	578
	HI4730	0.48	0.71	0.95	1.43	1.90	2.38	2.85	3.33	3.81	4.28	237	713
1600	HI4715	5.54	8.31	11.08	—	—	—	—	—	—	—	60	180
	HI4720	2.52	3.78	5.04	7.56	10.08	12.60	—	—	—	—	116	348
	HI4725	1.30	1.95	2.60	3.89	5.19	6.49	7.79	9.09	10.39	11.68	152	457
	HI4730	0.77	1.16	1.54	2.32	3.09	3.86	4.63	5.41	6.18	6.95	190	572
1800	HI4715	8.87	—	—	—	—	—	—	—	—	—	47	142
	HI4720	4.04	6.06	8.07	12.11	—	—	—	—	—	—	91	275
	HI4725	2.08	3.12	4.16	6.24	8.32	10.40	12.48	—	—	—	120	361
	HI4730	1.23	1.85	2.47	3.70	4.93	6.17	7.40	8.63	9.86	11.10	153	461
2000	HI4720	6.15	9.23	12.31	—	—	—	—	—	—	—	74	222
	HI4725	3.17	4.75	6.34	9.51	12.68	—	—	—	—	—	97	293
	HI4730	1.87	2.81	3.75	5.62	7.49	9.37	11.24	—	—	—	126	380
2200	HI4720	9.01	—	—	—	—	—	—	—	—	—	61	184
	HI4725	4.64	6.96	9.28	—	—	—	—	—	—	—	80	242
	HI4730	2.74	4.11	5.48	8.23	10.97	—	—	—	—	—	104	314
2400	HI4725	6.57	9.86	—	—	—	—	—	—	—	—	67	203
	HI4730	3.88	5.83	7.77	11.65	—	—	—	—	—	—	88	264

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 3:1 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. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact 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 ASCE Structural Plastics Design Manual.
4. Fibergrate does not recommend this product for turning wheel loads. If these conditions are expected, contact Fibergrate Engineering.
5. Fibergrate recommends a maximum deflection of 6.4 mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.
6. All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.

HI47 Grating Concentrated Line Load Chart

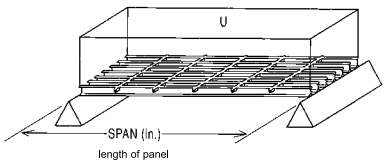


HI47 PULTRUDED SERIES LINE LOAD TABLE - DEFLECTIONS IN MILLIMETRES													
CLEAR SPAN (mm)	STYLE	LOAD (kN/m of Width)										MAXIMUM RECOM. LOAD (kN/m)	ULTIMATE CAPACITY (kN/m)
		1.5	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0		
400	HI4710	<0.3	0.42	0.84	1.67	2.51	3.34	4.18	5.01	5.85	6.69	69	207
	HI4715	<0.3	<0.3	<0.3	0.49	0.73	0.97	1.21	1.46	1.70	1.94	129	387
	HI4720	<0.3	<0.3	<0.3	<0.3	<0.3	0.38	0.47	0.57	0.66	0.76	334	1002
	HI4725	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.35	0.41	0.46	343	1029
	HI4730	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	440	1320
600	HI4710	0.39	1.31	2.62	5.23	7.85	10.46	—	—	—	—	49	148
	HI4715	<0.3	0.34	0.68	1.36	2.05	2.73	3.41	4.09	4.77	5.46	107	321
	HI4720	<0.3	<0.3	0.30	0.61	0.91	1.22	1.52	1.82	2.13	2.43	229	687
	HI4725	<0.3	<0.3	<0.3	0.36	0.54	0.72	0.90	1.07	1.25	1.43	247	742
	HI4730	<0.3	<0.3	<0.3	<0.3	0.32	0.43	0.54	0.64	0.75	0.86	312	937
800	HI4710	0.87	2.89	5.78	11.56	—	—	—	—	—	—	39	119
	HI4715	<0.3	0.69	1.38	2.77	4.15	5.54	6.92	8.31	9.69	11.08	96	289
	HI4720	<0.3	0.34	0.69	1.38	2.06	2.75	3.44	4.13	4.81	5.50	176	529
	HI4725	<0.3	<0.3	0.39	0.78	1.18	1.57	1.96	2.35	2.74	3.14	199	599
	HI4730	<0.3	<0.3	<0.3	0.48	0.72	0.96	1.20	1.44	1.68	1.92	248	745
1000	HI4710	1.69	5.65	11.29	—	—	—	—	—	—	—	31	95
	HI4715	0.41	1.35	2.70	5.41	8.11	10.82	—	—	—	—	77	231
	HI4720	<0.3	0.64	1.28	2.57	3.85	5.14	6.42	7.71	8.99	10.28	144	434
	HI4725	<0.3	0.36	0.71	1.42	2.13	2.84	3.55	4.26	4.97	5.69	171	513
	HI4730	<0.3	<0.3	0.44	0.88	1.32	1.77	2.21	2.65	3.09	3.53	210	630
1200	HI4710	2.93	9.76	—	—	—	—	—	—	—	—	26	79
	HI4715	0.70	2.34	4.67	9.35	—	—	—	—	—	—	64	192
	HI4720	0.32	1.06	2.13	4.25	6.38	8.51	10.63	—	—	—	123	371
	HI4725	<0.3	0.57	1.15	2.29	3.44	4.58	5.73	6.88	8.02	9.17	152	456
	HI4730	<0.3	0.36	0.72	1.44	2.16	2.89	3.61	4.33	5.05	5.77	184	554
1400	HI4710	4.65	—	—	—	—	—	—	—	—	—	22	68
	HI4715	1.11	3.71	7.42	—	—	—	—	—	—	—	55	165
	HI4720	0.51	1.69	3.38	6.75	10.13	—	—	—	—	—	106	318
	HI4725	<0.3	0.89	1.78	3.56	5.34	7.11	8.89	10.67	12.45	—	134	404
	HI4730	<0.3	0.54	1.09	2.18	3.26	4.35	5.44	6.53	7.61	8.70	166	499
1600	HI4710	6.94	—	—	—	—	—	—	—	—	—	19	59
	HI4715	1.66	5.54	11.08	—	—	—	—	—	—	—	48	144
	HI4720	0.76	2.52	5.04	10.08	—	—	—	—	—	—	92	278
	HI4725	0.39	1.30	2.60	5.19	7.79	10.39	—	—	—	—	122	366
	HI4730	<0.3	0.77	1.54	3.09	4.63	6.18	7.72	9.27	10.81	12.36	152	458
1800	HI4710	9.88	—	—	—	—	—	—	—	—	—	17	53
	HI4715	2.37	7.89	—	—	—	—	—	—	—	—	42	128
	HI4720	1.08	3.59	7.18	—	—	—	—	—	—	—	82	247
	HI4725	0.55	1.85	3.70	7.39	11.09	—	—	—	—	—	108	325
	HI4730	0.33	1.10	2.19	4.38	6.58	8.77	10.96	—	—	—	138	415
2000	HI4715	3.25	10.82	—	—	—	—	—	—	—	—	38	115
	HI4720	1.48	4.92	9.85	—	—	—	—	—	—	—	74	222
	HI4725	0.76	2.54	5.07	10.14	—	—	—	—	—	—	97	293
	HI4730	0.45	1.50	3.00	5.99	8.99	11.99	—	—	—	—	126	380
	HI4715	4.32	—	—	—	—	—	—	—	—	—	35	105
2200	HI4720	1.97	6.55	—	—	—	—	—	—	—	—	67	202
	HI4725	1.01	3.38	6.75	—	—	—	—	—	—	—	88	266
	HI4730	0.60	1.99	3.99	7.98	11.97	—	—	—	—	—	115	345
	HI4715	5.61	—	—	—	—	—	—	—	—	—	32	96
2400	HI4720	2.55	8.51	—	—	—	—	—	—	—	—	61	185
	HI4725	1.31	4.38	8.76	—	—	—	—	—	—	—	81	244
	HI4730	0.78	2.59	5.18	10.36	—	—	—	—	—	—	105	317
	HI4730	0.7	2.6	5.2	10.4	—	—	—	—	—	—	105	314

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 3:1 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. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact 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 ASCE Structural Plastics Design Manual.
4. Fibergrate does not recommend this product for turning wheel loads. If these conditions are expected, contact Fibergrate Engineering.
5. Fibergrate recommends a maximum deflection of 6.4 mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.
6. All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.

HI58 Grating Uniform Load Chart



HI8 PULTRUDED SERIES UNIFORM LOAD TABLE - DEFLECTIONS IN MILLIMETRES													
CLEAR SPAN (mm)	STYLE	LOAD (kN/m²)										MAXIMUM RECOM. LOAD (kN/m²)	ULTIMATE CAPACITY (kN/m²)
		5.0	7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0		
400	HI5810	<0.3	<0.3	<0.3	0.40	0.53	0.66	0.79	0.92	1.06	1.19	274	822
	HI5815	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.31	0.34	510	1532
	HI5820	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1323	3969
	HI5825	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1358	4075
	HI5830	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1742	5228
600	HI5810	0.62	0.93	1.24	1.86	2.48	3.10	3.72	4.34	4.95	5.57	130	392
	HI5815	<0.3	<0.3	0.32	0.48	0.65	0.81	0.97	1.13	1.29	1.45	283	849
	HI5820	<0.3	<0.3	<0.3	<0.3	<0.3	0.36	0.43	0.50	0.58	0.65	604	1813
	HI5825	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.34	0.38	653	1960
	HI5830	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	824	2474
800	HI5810	1.82	2.74	3.65	5.47	7.30	9.12	10.95	—	—	—	78	236
	HI5815	0.44	0.66	0.87	1.31	1.75	2.19	2.62	3.06	3.50	3.93	190	572
	HI5820	<0.3	0.33	0.43	0.65	0.87	1.09	1.30	1.52	1.74	1.95	349	1047
	HI5825	<0.3	<0.3	<0.3	0.37	0.50	0.62	0.74	0.87	0.99	1.11	395	1186
	HI5830	<0.3	<0.3	<0.3	<0.3	0.30	0.38	0.45	0.53	0.60	0.68	492	1476
1000	HI5810	4.46	6.68	8.91	—	—	—	—	—	—	—	50	151
	HI5815	1.07	1.60	2.13	3.20	4.27	5.34	6.40	7.47	8.54	9.61	122	366
	HI5820	0.51	0.76	1.01	1.52	2.03	2.54	3.04	3.55	4.06	4.56	229	688
	HI5825	<0.3	0.42	0.56	0.84	1.12	1.40	1.68	1.96	2.24	2.52	271	813
	HI5830	<0.3	<0.3	0.35	0.52	0.70	0.87	1.05	1.22	1.39	1.57	332	998
1200	HI5810	9.24	—	—	—	—	—	—	—	—	—	35	105
	HI5815	2.21	3.32	4.43	6.64	8.85	11.07	—	—	—	—	84	254
	HI5820	1.01	1.51	2.01	3.02	4.03	5.04	6.04	7.05	8.06	9.07	163	490
	HI5825	0.54	0.81	1.09	1.63	2.17	2.71	3.26	3.80	4.34	4.89	200	601
	HI5830	0.34	0.51	0.68	1.03	1.37	1.71	2.05	2.39	2.73	3.08	243	731
1400	HI5815	4.10	6.15	8.20	12.30	—	—	—	—	—	—	62	186
	HI5820	1.87	2.80	3.73	5.60	7.46	9.33	11.20	—	—	—	120	360
	HI5825	0.98	1.47	1.97	2.95	3.93	4.91	5.90	6.88	7.86	8.85	152	457
	HI5830	0.60	0.90	1.20	1.80	2.40	3.00	3.61	4.21	4.81	5.41	188	564
1600	HI5815	6.99	10.49	—	—	—	—	—	—	—	—	47	143
	HI5820	3.18	4.78	6.37	9.55	—	—	—	—	—	—	91	275
	HI5825	1.64	2.46	3.28	4.92	6.56	8.20	9.84	11.48	—	—	120	362
	HI5830	0.98	1.46	1.95	2.93	3.90	4.88	5.85	6.83	7.80	8.78	151	453
1800	HI5815	11.20	—	—	—	—	—	—	—	—	—	37	113
	HI5820	5.10	7.65	10.20	—	—	—	—	—	—	—	72	217
	HI5825	2.63	3.94	5.25	7.88	10.51	—	—	—	—	—	95	286
	HI5830	1.56	2.34	3.11	4.67	6.23	7.79	9.34	10.90	12.46	—	121	365
2000	HI5820	7.77	11.66	—	—	—	—	—	—	—	—	58	176
	HI5825	4.00	6.01	8.01	12.01	—	—	—	—	—	—	77	232
	HI5830	2.37	3.55	4.73	7.10	9.46	11.83	—	—	—	—	100	301
2200	HI5820	11.38	—	—	—	—	—	—	—	—	—	48	145
	HI5825	5.86	8.79	11.72	—	—	—	—	—	—	—	63	191
	HI5830	3.46	5.20	6.93	10.39	—	—	—	—	—	—	83	249
2400	HI5825	8.30	12.45	—	—	—	—	—	—	—	—	53	161
	HI5830	4.91	7.36	9.81	—	—	—	—	—	—	—	69	209

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 3:1 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. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact 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 ASCE Structural Plastics Design Manual.
4. Fibergrate does not recommend this product for turning wheel loads. If these conditions are expected, contact Fibergrate Engineering.
5. Fibergrate recommends a maximum deflection of 6.4 mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.
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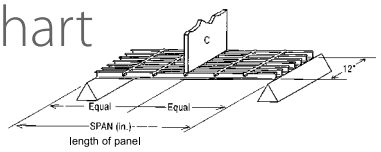
HI58 Grating Concentrated Line Load Chart



HI58 PULTRUDED SERIES LINE LOAD TABLE - DEFLECTIONS IN MILLIMETRES													
CLEAR SPAN (mm)	STYLE	LOAD (kN/m of Width)										MAXIMUM RECOM. LOAD (kN/m)	ULTIMATE CAPACITY (kN/m)
		1.5	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0		
400	HI5810	<0.3	0.53	1.06	2.11	3.17	4.22	5.28	6.33	7.39	8.44	54	164
	HI5815	<0.3	<0.3	0.31	0.61	0.92	1.23	1.53	1.84	2.15	2.45	102	306
	HI5820	<0.3	<0.3	<0.3	<0.3	0.36	0.48	0.60	0.72	0.84	0.96	264	793
	HI5825	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.37	0.44	0.51	0.59	271	815
	HI5830	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.30	0.34	348	1045
600	HI5810	0.50	1.65	3.30	6.61	9.91	—	—	—	—	—	39	117
	HI5815	<0.3	0.43	0.86	1.72	2.58	3.44	4.31	5.17	6.03	6.89	84	254
	HI5820	<0.3	<0.3	0.38	0.77	1.15	1.54	1.92	2.30	2.69	3.07	181	543
	HI5825	<0.3	<0.3	<0.3	0.45	0.68	0.91	1.13	1.36	1.58	1.81	196	588
	HI5830	<0.3	<0.3	<0.3	<0.3	0.41	0.54	0.68	0.81	0.95	1.09	247	742
800	HI5810	1.09	3.65	7.30	—	—	—	—	—	—	—	31	94
	HI5815	<0.3	0.87	1.75	3.50	5.25	6.99	8.74	10.49	12.24	—	76	228
	HI5820	<0.3	0.43	0.87	1.74	2.61	3.47	4.34	5.21	6.08	6.95	139	419
	HI5825	<0.3	<0.3	0.50	0.99	1.49	1.98	2.48	2.97	3.47	3.96	158	474
	HI5830	<0.3	<0.3	0.30	0.60	0.91	1.21	1.51	1.81	2.12	2.42	196	590
1000	HI5810	2.14	7.13	—	—	—	—	—	—	—	—	25	75
	HI5815	0.51	1.71	3.42	6.83	10.25	—	—	—	—	—	61	183
	HI5820	<0.3	0.81	1.62	3.24	4.87	6.49	8.11	9.73	11.36	—	114	344
	HI5825	<0.3	0.45	0.90	1.80	2.69	3.59	4.49	5.39	6.28	7.18	135	406
	HI5830	<0.3	<0.3	0.56	1.11	1.67	2.23	2.79	3.34	3.90	4.46	166	499
1200	HI5810	3.70	12.32	—	—	—	—	—	—	—	—	21	63
	HI5815	0.89	2.95	5.90	11.80	—	—	—	—	—	—	50	152
	HI5820	0.40	1.34	2.69	5.37	8.06	10.74	—	—	—	—	98	294
	HI5825	<0.3	0.72	1.45	2.89	4.34	5.79	7.24	8.68	10.13	11.58	120	361
	HI5830	<0.3	0.46	0.91	1.82	2.73	3.65	4.56	5.47	6.38	7.29	146	438
1400	HI5810	5.87	—	—	—	—	—	—	—	—	—	18	54
	HI5815	1.41	4.69	9.37	—	—	—	—	—	—	—	43	130
	HI5820	0.64	2.13	4.27	8.53	—	—	—	—	—	—	84	252
	HI5825	0.34	1.12	2.25	4.49	6.74	8.99	11.23	—	—	—	106	320
	HI5830	<0.3	0.69	1.37	2.75	4.12	5.49	6.87	8.24	9.62	10.99	131	395
1600	HI5810	8.76	—	—	—	—	—	—	—	—	—	15	47
	HI5815	2.10	6.99	—	—	—	—	—	—	—	—	38	114
	HI5820	0.96	3.18	6.37	—	—	—	—	—	—	—	73	220
	HI5825	0.49	1.64	3.28	6.56	9.84	—	—	—	—	—	96	290
	HI5830	<0.3	0.98	1.95	3.90	5.85	7.80	9.76	11.71	—	—	120	362
1800	HI5810	12.47	—	—	—	—	—	—	—	—	—	14	42
	HI5815	2.99	9.96	—	—	—	—	—	—	—	—	33	101
	HI5820	1.36	4.53	9.07	—	—	—	—	—	—	—	65	196
	HI5825	0.70	2.34	4.67	9.34	—	—	—	—	—	—	85	257
	HI5830	0.42	1.38	2.77	5.54	8.31	11.08	—	—	—	—	109	328
2000	HI5815	4.10	—	—	—	—	—	—	—	—	—	30	91
	HI5820	1.87	6.22	12.44	—	—	—	—	—	—	—	58	176
	HI5825	0.96	3.20	6.41	—	—	—	—	—	—	—	77	232
	HI5830	0.57	1.89	3.79	7.57	11.36	—	—	—	—	—	100	301
	HI5815	5.45	—	—	—	—	—	—	—	—	—	27	83
2200	HI5820	2.48	8.28	—	—	—	—	—	—	—	—	53	160
	HI5825	1.28	4.26	8.53	—	—	—	—	—	—	—	70	210
	HI5830	0.76	2.52	5.04	10.08	—	—	—	—	—	—	91	273
	HI5815	7.08	—	—	—	—	—	—	—	—	—	25	76
2400	HI5820	3.22	10.74	—	—	—	—	—	—	—	—	49	147
	HI5825	1.66	5.53	11.07	—	—	—	—	—	—	—	64	193
	HI5830	0.98	3.27	6.54	—	—	—	—	—	—	—	83	251
	HI4730	0.7	2.6	5.2	10.4	—	—	—	—	—	—	105	314

NOTES:

1. The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 3:1 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. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact 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 ASCE Structural Plastics Design Manual.
4. Fibergrate does not recommend this product for turning wheel loads. If these conditions are expected, contact Fibergrate Engineering.
5. Fibergrate recommends a maximum deflection of 6.4 mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.
6. All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.