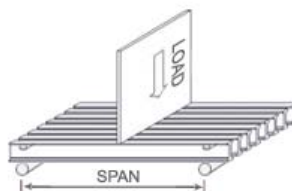


Loaded capacity of FRP pultruded gratings

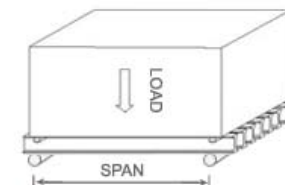
Unit:

Linear load — kg/m
 Uniform load— kg/m²
 Span— mm
 Deflection— mm

Linear load



Uniform Load



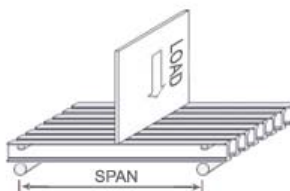
NO.	Deflection Span	Linear load							Uniform load						
		300	450	750	1500	3000	5950	Ultimate load	1000	1900	3900	7000	9500	19500	Ultimate load
PI-4025	450	--	--	1.02	2.03	4.06	7.62	16593	0.25	0.76	1.27	2.29	3.05	6.1	72325
	600	--	--	2.54	4.57	8.89	17.53	12959	1.01	1.27	3.56	6.86	8.89	--	42515
	900	2.8	4.06	6.6	13.46	26.9	53.85	8639	4.57	8.38	16.26	--	--	--	18863
	1200	5.84	8.89	14.73	29.46	59.2	118.11	6420	14.48	--	--	--	--	--	10507
PI-5025	450	--	--	1.02	2.03	4.06	7.62	13808	0.51	0.76	1.27	2.54	3.302	6.6	60499
	600	--	--	2.54	4.83	9.4	18.8	10799	1.27	2.29	4.06	5.08	7.26	15.24	35429
	900	2.8	4.06	6.86	13.46	27.2	54.1	7194	4.83	8.89	17.27	--	--	--	15638
	1200	7.37	10.9	18.92	36.58	73.2	146.05	5362	16.51	--	--	--	--	--	8796
PI-6025	450	--	--	1.52	2.54	4.83	9.65	11067	0.51	0.76	1.52	2.79	3.81	7.37	48380
	600	--	--	3.05	5.59	11.2	22.1	8639	1.27	2.29	4.57	8.38	11.18	--	28344
	900	3.3	4.83	7.87	15.75	31.5	62.99	5750	5.84	10.92	--	--	--	--	12559
	1200	7.87	11.7	19.3	38.61	77.5	154.69	4275	17.78	--	--	--	--	--	6988
PI-4038	450	--	0.25	0.51	0.76	1.52	2.79	26215	0.25	0.51	0.76	1.27	1.52	3.3	114645
	600	0.51	0.51	1.02	1.78	3.05	5.84	19661	0.51	0.76	1.52	2.79	3.81	7.62	64506
	900	1.02	1.27	2.29	4.32	8.38	16.76	12705	1.52	2.79	5.33	10.2	13.46	--	27757
	1200	2.03	2.79	4.57	9.4	19.1	37.85	9086	5.33	8.64	--	--	--	--	14905
PI-5038	450	--	0.25	0.51	1.02	1.78	3.3	21836	0.25	0.51	0.76	1.27	1.778	3.56	95537
	600	0.51	0.51	1.02	1.78	3.56	6.86	16385	0.51	0.76	1.52	3.05	4.06	8.13	53755
	900	1.02	1.52	2.54	5.08	9.91	20.07	10576	1.78	3.3	6.1	11.7	15.49	--	23164
	1200	2.29	3.56	5.84	11.94	23.4	46.99	7567	5.59	10.69	--	--	--	--	12422
PI-6038	450	--	0.25	0.51	0.76	2.03	3.81	17472	0.25	0.25	0.76	1.27	1.78	3.56	76430
	600	0.51	0.76	1.02	2.29	4.32	8.38	13108	0.51	1.02	1.789	3.3	4.57	8.89	43004
	900	1.27	2.03	3.3	6.1	12.5	25.15	8460	2.29	4.06	7.87	14.7	--	--	18570
	1200	2.79	4.32	7.11	14.22	28.5	56.9	6047	6.6	12.95	--	--	--	--	9920

Loaded capacity of FRP pultruded gratings

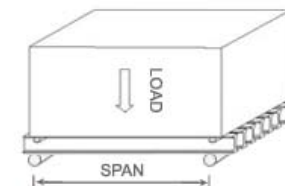
Unit:

Linear load — kg/m
 Uniform load— kg/m²
 Span— mm
 Deflection— mm

Linear load



Uniform load



NO.	Deflection Span	Linear load							Uniform load						
		300	450	750	1500	3000	5950	Ultimate load	1000	1900	3900	7000	9500	19500	Ultimate load
PI-5050	600	--	0.25	0.51	1.02	1.78	3.3	--	0.25	0.51	0.76	1.52	2.03	4.06	--
	900	0.51	0.76	1.27	2.29	4.57	9.4	--	0.76	1.52	3.05	5.59	7.73	14.99	--
	1200	1.02	1.52	2.29	4.83	9.91	19.56	--	2.29	4.57	9.4	--	--	--	--
	1500	1.78	2.79	4.57	9.14	18.3	36.58	--	5.0	9.91	--	--	--	--	--
PI-6050	600	0.25	0.51	0.76	1.27	2.29	4.57	19407	0.51	0.76	1.27	2.29	3.05	6.35	55368
	900	0.76	1.27	1.78	3.3	6.1	12.19	11024	1.02	2.03	3.81	6.86	9.4	--	36895
	1200	1.52	2.29	3.56	6.6	13.5	27.18	7817	3.3	6.35	12.45	--	--	--	27659
	1500	2.54	3.81	6.35	12.45	24.6	49.53	3100	6.86	13.46	--	--	--	--	22137
NO.	Deflection Span	Linear load							Uniform load						
		750	1500	3000	4500	6000	7500	Ultimate load	2450	4850	9800	14500	19500	24400	Ultimate load
PF-5050	600	0.1829	0.3658	0.7112	1.077	1.4225	1.7883	--	0.2235	0.447	0.8942	1.3411	1.7881	2.2149	--
	750	0.3251	0.6502	1.3005	1.9507	2.6214	3.2716	--	0.508	1.016	2.033	3.0683	4.0843	5.1003	--
	900	0.5486	1.0973	2.1946	3.2715	4.3689	5.4662	--	1.016	2.0523	4.1047	6.1366	8.1889	10.241	--
	1200	1.2802	2.5603	5.1206	7.6809	10.241	12.801	--	3.2106	6.4008	12.801	--	--	--	--
PF-6050	600	0.2286	0.4572	0.889	1.3462	1.779	2.2353	--	0.2794	0.5588	1.1177	1.6764	2.2352	2.7686	--
	750	0.4046	0.8128	1.6256	2.4384	3.2767	4.0895	--	0.635	1.27	2.55	3.8354	5.1054	6.3754	--
	900	0.6858	1.3716	2.7432	4.0894	5.462	6.8327	--	1.27	2.5654	5.1309	7.6708	10.236	12.801	--
	1200	1.6002	3.2004	6.4008	9.6012	12.801	16.003	--	4.0132	8.001	16.003	--	--	--	--