

frp molded grating load deflection tables

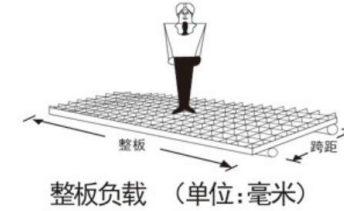
concentrated line load-deflection in mm

uniformed load-deflection in mm

Full page load-deflection in mm

Bar thickness(Top/Bottom) 6.0/5.0 Distance between centers of bearing bars 38.1 Open Area 73.15% Weight per square meter 9.29 kg/m ² Standard panel sizes: 1220*4000, 1220*3660, 1220*2440, 915*3050 Both directions	No.1 H20 Mesh size:38.1*38.1							
	span	deflection (mm)	KG / M					ultimate load
			75	150	300	450	750	
	300		0.254	0.508	1.016	1.524	2.54	4470
	450		0.762	1.524	3.302	4.826	8.128	2980
	600		1.778	3.81	7.62	11.18	—	2235
	750		2.794	5.588	11.43	—	—	1788
900		5.334	10.67	—	—	—	1490	

span	deflection	KG / M ²						ultimate load
		350	500	750	1000	1500	2500	
300		<0.254	0.254	0.508	0.508	1.016	1.524	
450		1.016	1.524	2.286	3.048	4.572	7.62	
600		3.084	4.572	7.112	9.398	—	—	
750		5.842	8.89	—	—	—	—	
900		—	—	—	—	—	—	



Bar thickness(Top/Bottom) 6.4/5.0 Distance between centers of bearing bars 38.1 Open Area 72.26% Weight per square meter 12 kg/m ² Standard panel sizes: 1524*4000, 1220*4000, 1220*3660, 1220*2440, 915*3050 Both directions	No.2 H25 Mesh size:38.1*38.1								
	span	deflection (mm)	KG / M					breakpoint	
			75	150	300	450	600	750	
	450		0.559	1.146	2.159	3.073	4.115	4.75	3910
	600		0.864	1.702	3.505	5.156	6.706	8.179	2924
	900		2.896	5.918	12.12	18.44	—	—	1948
1200		5.715	11.63	—	—	—	—	1461	

span	deflection	KG / M ²						
		240	480	980	1450	2450	3650	4880
450		0.66	1.092	1.93	2.769	4.47	6.579	—
600		1.118	2.108	4.14	6.172	10.21	15.27	—
750		2.667	5.387	10.82	16.28	—	—	—
900		5.537	11.18	21.72	—	—	—	—

span	deflection	KG						
		150	370	750	1120	1500	2200	2980
450		0.254	0.686	1.55	2.159	2.667	4.116	5.232
600		0.734	1.651	3.175	4.623	6.121	9.119	12.12
900		1.778	4.445	8.814	13.16	—	—	—
1200		2.946	7.544	15.06	—	—	—	—

Bar thickness(Top/Bottom) 6.5/5.0 Distance between centers of bearing bars 38.1 Open Area 72.04% Weight per square meter 14.51 kg/m ² Standard panel sizes: 1524*4000, 1220*4000, 1000*4090, 1220*3660, 1220*2440, 915*3050 Both directions	No.3 H30 Mesh size:38.1*38.1								
	span	deflection (mm)	KG / M					ultimate load	
			75	150	300	450	750	1500	
	300		<0.254	<0.254	0.254	0.508	0.762	1.524	9923.4
	450		0.254	0.508	1.016	1.524	2.54	—	4827.6
	600		0.508	1.27	2.286	3.556	5.842	—	4112.4
	750		1.27	2.54	4.826	7.366	12.47	—	3173.7
900		1.778	3.81	7.62	11.43	—	—	2637.3	

span	deflection	KG / M ²						ultimate load
		350	500	750	1000	1500	2500	
300		<0.254	<0.254	<0.254	<0.254	0.254	0.508	32500.8
450		0.254	0.508	0.762	1.016	1.524	2.286	21661.2
600		1.016	1.524	2.286	2.794	4.318	7.366	12980.8
750		2.54	3.81	5.842	7.62	11.68	—	8296
900		4.572	7.112	10.67	—	—	—	5758.4

span	deflection	KG				
		25	45	100	150	250
600		<0.254	0.254	0.762	1.016	1.778
750		0.25	0.762	1.27	2.032	3.302
900		0.508	0.762	1.778	2.54	4.064
1050		0.762	1.524	2.794	43.18	7.112
1200		1.016	1.778	3.81	5.588	9.398

Bar thickness(Top/Bottom) 7.0/5.0 Distance between centers of bearing bars 38.1 Open Area 70.94% Weight per square meter 19.11 kg/m ² Standard panel sizes: 1524*4000, 1524*3050, 1220*4000, 1220*3660, 1220*2440, 915*3050 Both directions	No.4 H38 Mesh size:38.1*38.1								
	span	deflection (mm)	KG / M					breakpoint	
			75	150	300	450	600	750	
	300		0.279	0.356	0.483	0.61	0.762	0.889	17116
	600		0.356	0.66	1.245	1.85	2.464	3.073	8718
	900		0.864	1.803	3.683	5.563	7.417	9.296	5817
1200		2.261	4.749	9.677	14.63	19.58	—	3755	

span	deflection	KG / M ²						
		240	480	980	1450	2450	3650	4880
300		0.254	0.305	0.381	0.457	0.635	0.838	—
600		0.432	0.813	1.549	2.311	3.835	5.74	—
900		1.702	3.454	6.959	10.47	17.48	—	—
1200		5.969	12.17	24.51	—	—	—	—

span	deflection	KG						
		150	370	750	1120	1500	2200	2980
450		0.203	0.406	0.711	0.889	1.143	1.676	2.21
600		0.356	0.889	1.499	1.905	2.413	3.531	4.267
900		0.61	1.5	2.9	4.14	5.41	7.95	10.57
1200		0.914	2.388	4.699	6.96	9.195	13.67	—