

## LOADING DATA

Concentrate Line Load (Kg/M) – Deflection in MM						
Span (mm)	Type	Kg/m <sup>2</sup>	150	300	600	750
610	25x38x38	12.6	1.68	3.55	6.71	8.20
	25x25x100	13.1	1.70	3.48	6.90	8.65
	38x38x38	17.3	0.67	1.19	2.50	3.08
	50x50x50	19.1	0.50	0.82	1.77	3.35
914	25x38x38	12.6	5.89	12.15	-	-
	25x25x100	13.1	4.75	8.90	16.52	20.65
	38x38x38	17.3	1.79	3.65	7.39	9.31
	50x50x50	19.1	1.10	2.22	5.18	10.10
1219	25x38x38	12.6	11.65	-	-	-
	38x38x38	17.3	4.80	9.71	19.62	-
	50x50x50	19.1	1.95	3.97	9.99	-

Uniform Load (Kg/M <sup>2</sup> ) – Deflection in MM						
Span (mm)	Type	Kg/m <sup>2</sup>	500	1000	2000	3000
610	25x38x38	12.6	2.15	4.25	8.30	14.58
	25x25x100	13.1	1.90	3.77	7.50	-
	38x38x38	17.3	0.83	1.59	3.14	5.48
	50x50x50	19.1	0.60	0.99	1.79	3.93
914	25x38x38	12.6	11.33	22.23	-	-
	25x25x100	13.1	6.75	12.69	24.85	-
	38x38x38	17.3	3.53	7.12	14.19	-
	50x50x50	19.1	2.16	4.03	7.77	17.66
1219	25x38x38	12.6	-	-	-	-
	38x38x38	17.3	12.34	25.09	-	-
	50x50x50	19.1	5.04	10.19	20.11	-

## RESIN SYSTEM

Resin Code	Description	Resin Base	Corrosion Resistance	Flame Spread Rating	Max. Temp.
Type GP	Architectural or application moderate corrosion	Orthophthalic	Good	ASTM E-84, Class I, 25 or less	150°F
Type I	Industrial application	Isophthalic	Very Good	ASTM E-84, Class I, 25 or less	150°F
Type V	High chemical resistance	Vinyl Ester	Excellent	ASTM E-84, Class I, 25 or less	200°F
Type XVE	Premium grade with extra fine resistance	Vinyl Ester	Good	ASTM E-84, Class I, 10 or less 25 or less	200°F
TYPE F	Meet US FDA food industry standard	Isophthalic	Good	ASTM E-84, Class I, 30 or less	150°F
TYPE P	Low smoke and superior fire resistance	Phenolic	Excellent	ASTM E-84, Class I, 0	300°F

## GRP LOAD TABLE

**Loads in kGs based on a 1% deflection of span. Self-weight in (kGs/m<sup>2</sup>)**

Moulded Mini Mesh Grating			Unsupported Span (unfixed) over 1m width						
Thickness	Self-weight	Load Type	300	500	600	750	1000	1200	1500
14	10	Point Load	650	230	155	95	50	30	10
		UDL	1025	365	250	155	80	50	25
22	16	Point Load	2885	1030	715	450	245	165	95
		UDL	5945	2135	1480	940	520	355	215
30	18.8	Point Load	6710	2410	1670	1060	585	400	245
		UDL	10740	3860	2675	1705	950	650	405
38	23.1	Point Load	11825	4245	2945	1875	1045	715	445
		UDL	18920	6805	4720	3010	1685	1160	725

Moulded Solid Top Grating			Unsupported Span (unfixed) over 1m width						
Thickness	Self-weight	Load Type	300	500	600	750	1000	1200	1500
29	18	Point Load	8425	3025	2095	1335	740	505	315
		UDL	13485	4850	3360	2145	1195	825	515
42	24	Point Load	22975	8260	5730	3660	2045	1410	890
		UDL	36765	13225	9180	5865	3290	2275	1440
54	28	Point Load	33745	12140	8420	5380	3015	2080	1315
		UDL	53995	19430	13845	8620	4835	3345	2125

Moulded Standard Grating			Unsupported Span (unfixed) over 1m width						
Thickness	Self-weight	Load Type	300	500	600	750	1000	1200	1500
25	12	Point Load	2390	855	590	375	205	135	80
		UDL	3830	1375	950	605	335	225	135
30	14.2	Point Load	3795	1360	940	595	330	220	135
		UDL	6075	2180	1510	960	535	365	225
38	19	Point Load	8220	2950	2045	1300	725	495	305
		UDL	13155	4730	3280	2090	1165	800	500
50	21.7	Point Load	16445	5910	4100	2615	1460	1005	630
		UDL	26315	9465	6565	4195	2350	1620	1025
60	51	Point Load	21215	7620	5280	3365	1870	1275	785
		UDL	33955	12205	8465	5400	3015	2070	1295

Moulded Sandwich Plate Grating			Unsupported Span (unfixed) over 1m width						
Thickness	Self-weight	Load Type	300	500	600	750	1000	1200	1500
18	13.8	Point Load	3945	1415	980	620	340	230	140
		UDL	6315	2270	1570	1000	555	380	235