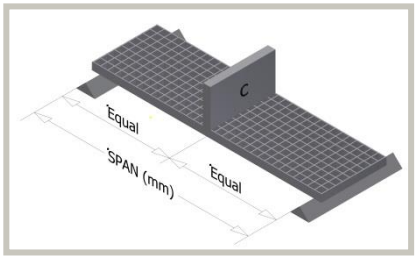
LOAD DEFLECTION TABLE

MOLDED GRATING
CONCENTRATED LINE LOAD
(deflection in mm)



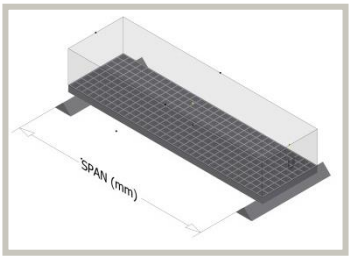
SM 30 X (38 X 38) : 30MM THICK & SQ. MESH 38MM X 38MM

SPAN	LINE LOAD IN KG/MTR														MAX.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
400	1.0	1.5	2.4	4.2	4.9	6.3	9.6	12.8							900
600	2.2	3.5	5.8	7.9											620
800	7.1														450

MM 30 X (19 X 19) : 30MM THICK & SQ.MINI MESH 19MM X 19MM

SPAN	LINE LOAD IN KG/MTR														MAX.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
400	0.9	1.6	2.6	3.3	4.3	4.9	6.7	8.4	13.3	17.1					945
600	2.1	3.6	5.6	7.1	9.3	10.7	14.2	17.7	27.5						651
800	6.7	11.5	18.4	22.9	29.8										473
1000	10.7	17.3	27.3												340

MOLDED GRATING
UNIFORMLY DISTRIBUTED LOAD
(deflection in mm)



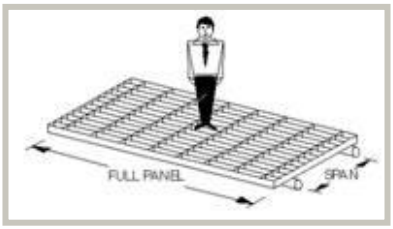
SM 30 X (38 X 38) : 30MM THICK & SQ. MESH 38MM X 38MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
400	0.2	0.4	0.8	1.0	1.3	1.9	2.2	2.9	4.5	5.9	6.9	8.5	9.5	10.9	6500
600	1.0	1.5	4.8	2.8	3.9	4.3	6.3	7.4							4300
800	3.9	7.1	8.9												1900
1000	5.5														1100

MM 30 X (19 X 19) : 30MM THICK & SQ.MINI MESH 19MM X 19MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
400	0.4	0.6	0.7	0.9	1.3	1.5	2.0	2.5	3.7	4.7	5.7	6.7	7.7	8.7	6695
600	0.7	1.2	2.3	2.7	3.6	4.1	5.5	6.9	10.5	13.4	16.0	18.7	21.3	23.9	4429
800	3.8	6.4	10.4	12.8	16.9	19.5									1957
1000	7.1	11.6	19.0	23.2											1133

MOLDED GRATING
POINT LOAD
(deflection in mm)



SM 30 X (38 X 38) : 30MM THICK & SQ. MESH 38MM X 38MM

SPAN	POINT LOAD IN KG					
In mm	100	225	350	450	700	900
450	0.3	0.5	0..9	1.0	2.7	3.5
600	0.9	1.1	2.5	2.7	8.1	9.2
750	1.1	2.2	5.2	8.9		
900	2.6	4.9	8.5	13.8		
1050	4.1	7.5				
1150	6.5					

MM 30 X (19 X 19) : 30MM THICK & SQ. MINI MESH 19MM X 19MM

SPAN	POINT LOAD IN KG					
In mm	100	225	350	450	700	900
450	0.3	0.6	0.9	1.2	1.8	2.4
600	0.7	1.8	2.7	3.7	5.8	7.6
750	1.7	3.7	5.5	7.0	10.7	14.3
900	2.3	5.2	7.9	10.4	15.5	20.7
1050						
1150						

NOTES:

1	It is advised not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 5:1 factor of safety on ULTIMATE CAPACITY.
2	ULTIMATE CAPACITY represents a complete and total failure of the grating. Max recommended and ultimate loads do not change as a result of adding a 3mm thick covered plate.
3	Walking loads, typically 250-300 kg/m2 maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 10mm or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 6 or CLEAR SPAN divided by 200.
4	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 our technical team
5	All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association