M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
33100 Udine - Italy
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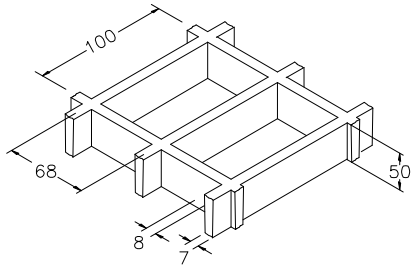
SCH 68/50_VIN
06.05.2011 - Rev. 4

MOLDED GRATINGS

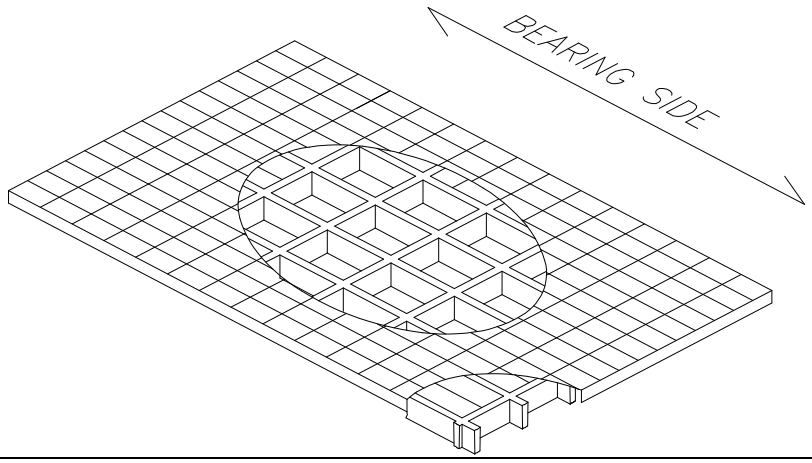
Mesh	**mm 100 x 68**	
Clear span	**mm 92 x 60**	
Height	**mm 50**	
Bearing bar thickness	**mm 8** upper part	
	mm 7 bottom part	
Color	**Natural translucent**	



Raw materials	***Vinylester Resin***
	Roving glass fiber type "ECR"
	Without inorganic fillers

Resin type	***Modulus of elasticity***	***Ultimate stress***
VIN	12250 MPa	310 MPa

Standard panels	
mm 1100 x 2200	
Weight kg/m² 15	
tolerance	± mm 5 panel dimensions
	± mm 2 height



Surface	S	**Smooth**	***Antiskid level R10 V10 norm DIN 51130***
	M	**Meniscus**	***Antiskid level R13 V10 norm DIN 51130***
	A	**Quartz**	***Antiskid level R13 V10 norm DIN 51130***

Ageing resistance	**Ageing test made with UV lamp according to ASTM G154-06 and passed with 5 points on the gray range and without evident defects** (test made with 1500 hours of exposure to 4 hours alternate cycles at a UV temperature of 60°C and 4 hours at a condensed temperature of 50°C irradiated by UVB 313 nm lamp, radiance 0,71 W/m²)
	After the exposure to heat, cold and humidity cycles according to UNI EN ISO 9142/04 norm (n° 21 cycles type D3) there is no evidence of defects

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LOADS

MAXIMUM SUGGESTED LOADS

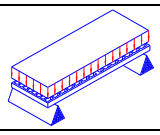
Type of support	**On the line of the two ends of the panel**

Limits determined by	**Deflection** (load sagging)

the **maximum deflection admitted,** is 1/200 of the distance between the supports

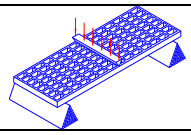
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

DISTRIBUTED LOAD



Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m²]	Load with deflection equal to 1/100 [kg/m²]
70	1600	3200
90	750	1500
110	400	800
130	250	500

CONCENTRATED LOAD



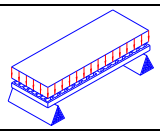
Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m]	Load with deflection equal to 1/100 [kg/m]
70	700	1400
90	400	800
110	250	550
130	200	400

All lighter loads are admitted

Limits determined by	**Admitted stresses** (stress determined by the load)

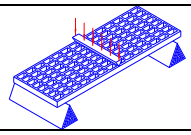
the **maximum admitted stress** is 1/5 of the ultimate stress
(safety factor is equal to 0.20 – the ultimate stress is 5 times the specified load)

DISTRIBUTED LOAD



Distance between supports [cm]	Maximum admitted load [kg/m²]
70	4600
90	2800
110	1850
130	1300

CONCENTRATED LOAD



Distance between supports [cm]	Maximum admitted load [kg/m]
70	1600
90	1250
110	1000
130	850

All lighter loads are admitted

- The above characteristics are meant as reference values for standard material in ambient working temperature. Even if they are not to be considered as guaranteed characteristics they are based on our experience and are supplied in good faith.
- According to the standard DIN 24537-3 the conversion safety factor should be 0.75 for internal environmental exposure conditions, 0.65 for external exposure conditions, and 0.50 for aggressive exposure conditions.
- No matter which are the exposure conditions, chemical resistance must be always verified by contacting M.M.technical department.
- In case of heavy duty load compressive strength must be verified.