M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
33100 Udine - Italy
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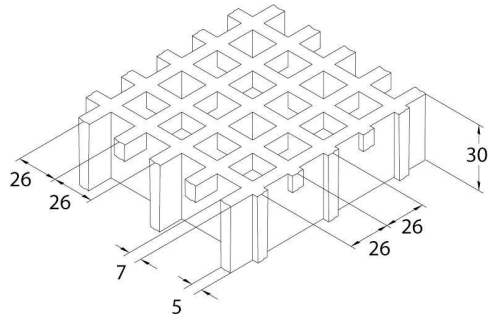
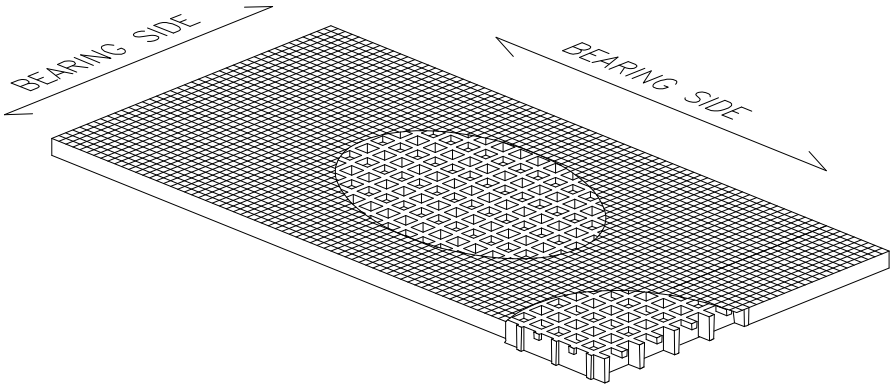
SCH 52/30_ISO
06.05.2011 - Rev. 4

MOLDED GRATINGS

Mesh	**mm 52 x 52** main	
	mm 26 x 26 secondary	
Clear span	**mm 19 x 19**	
Height	**mm 30**	
Bearing bar thickness	**mm 7** upper part	
	mm 5 bottom part	
Color	**Translucent green**	

Raw materials	***ISOPHTALIC Polyester Resin***
	Roving glass fiber type "E"
	Without inorganic fillers

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

Standard panels		
mm 1000 x 2000		
mm 1000 x 3000		
mm 1000 x 4050		
mm 1220 x 3660		
mm 1500 x 2000		
Weight kg/m² 13,5		
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

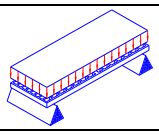
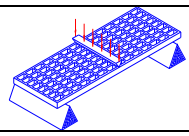
MAXIMUM SUGGESTED LOADS

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

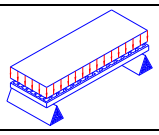
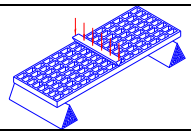
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

DISTRIBUTED LOAD				**CONCENTRATED LOAD**		
Distance between supports	Load with deflection equal to 1/200	Load with deflection equal to 1/100		Distance between supports	Load with deflection equal to 1/200	Load with deflection equal to 1/100
[cm]	[kg/m²]			[cm]	[kg/m]	
50	1300	2650		50	400	800
70	450	950		70	200	400
90	200	450		90	100	250
110	100	200		110	50	150

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			**CONCENTRATED LOAD**	
Distance between supports	Maximum admitted load		Distance between supports	Maximum admitted load
[cm]	[kg/m²]		[cm]	[kg/m]
50	3700		50	900
70	1900		70	650
90	1150		90	500
110	750		110	400

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.