M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
33100 Udine - Italy
Cap. Soc. EURO 100.000 i.v.
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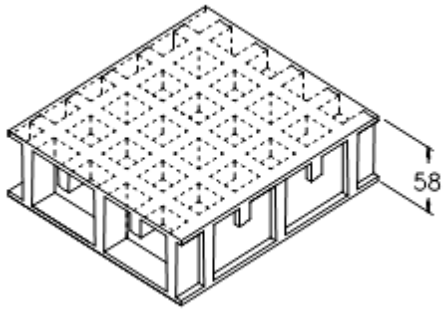
SCH 52/52DC_IFR

06.05.2011 - Rev. 4

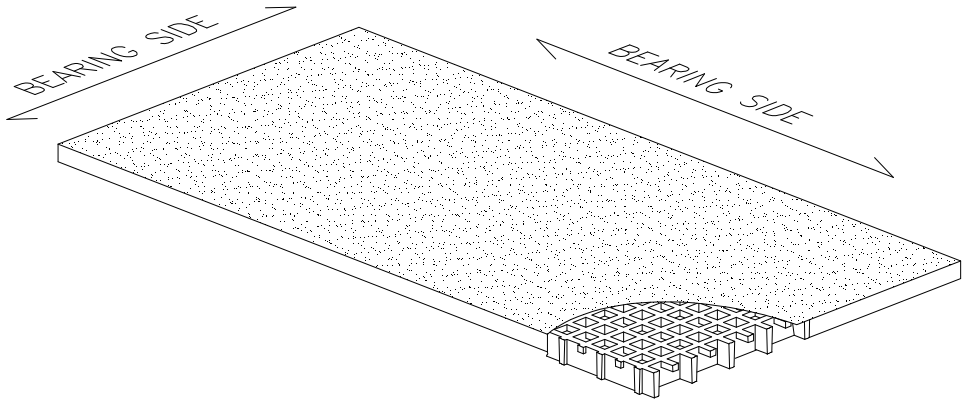
MOLDED GRATINGS

Mesh	**mm 52 x 52** main	
	mm 26 x 26 secondary	
Thickness	**mm 58**	
Cover thickness	**mm 3** upper cover	
	mm 3 bottom cover	
Bearing bar thickness	**mm 8** upper part	
	mm 7 bottom part	
Color	**Grey RAL 7004** *indicative RAL reference*	

Raw materials
Polyester Resin
Roving glass fiber + Mat and Woven Fabric type"E"
Inorganic fillers without halogens

Resin type	***Modulus of elasticity***	***Ultimate stress***
IFR	15000 MPa	130 MPa

Standard panels		
mm 1000 x 3000		
mm 1000 x 4050		
Weight kg/m² 44,5		
tolerance	± mm 5 panel dimensions	
	± mm 2 height	



Surface	A	**Quartz**	***Antiskid level R13 V4 norm DIN 51130***

Reaction to fire	***Fire retardant***	**Spread ≤ 25 norm ASTM E84-98**
		Level B_{fl}-S1 norm EN 13501-1

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

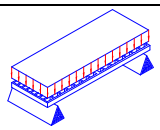
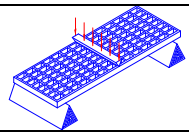
MAXIMUM SUGGESTED LOADS

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

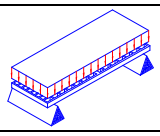
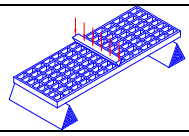
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

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]	[cm]	
70	10850	21750	70	4750	9500
90	5100	10200	90	2850	5750
110	2800	5600	110	1900	3850
130	1650	3350	130	1350	2750

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]
70	9450	70	3300
90	5700	90	2550
110	3800	110	2100
130	2750	130	1750

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.