M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
33100 Udine - Italy
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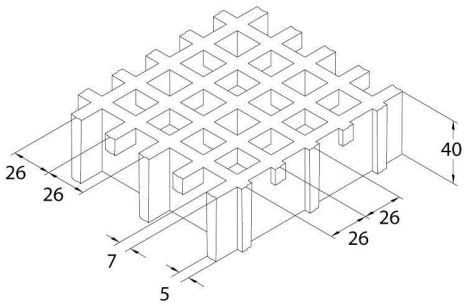
SCH 52/40_CFR

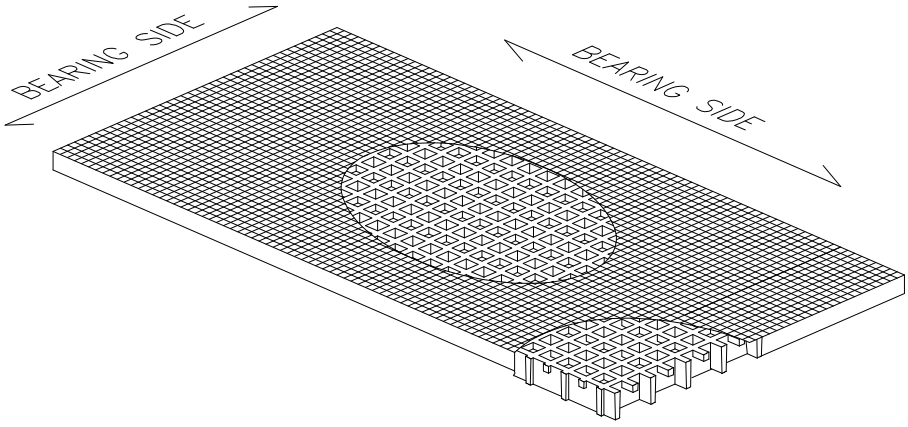
06.05.2011 - Rev. 4

MOLDED GRATINGS

Mesh	**mm 52 x 52** main	
	mm 26 x 26 secondary	
Clear span	**mm 19 x 19**	
Height	**mm 40**	
Bearing bar thickness	**mm 7** upper part	
	mm 5 bottom part	
Color	**Black**	

Raw materials	***Polyester Resin***
	Roving glass fiber type "E"
	Inorganic fillers without halogens + Carbon black conductive powder

Resin type	***Modulus of elasticity***	***Ultimate stress***
CFR	15000 MPa	325 MPa

Standard panels		
mm 1000 x 2000		
mm 1000 x 3000		
mm 1000 x 4050		
Weight kg/m² 21		
tolerance	± mm 5 panel dimensions	
	± mm 2 height	

Surface	M	**Meniscus**	***Antiskid level R13 V10 norm DIN 51130***

Reaction to fire	***Fire retardant***	**Spread ≤ 25 norm ASTM E84-98**
		ASTM D635 Elapsed time and burned length < 25 mm

Surface and Volume electrical resistivity. Dielectric strength	***Excellent Conductivity***	**EN 61340-2.3 Par. 8.1 and 8.2 – IEC 61340-4.1 Par. 5.1.2 ref. ISO 1957 – IEC 61340-4.5 - ASTM D149-97a**

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LOADS

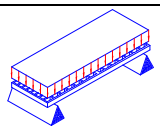
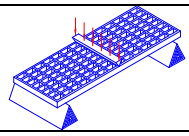
MAXIMUM SUGGESTED LOADS

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

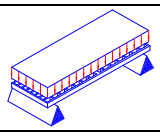
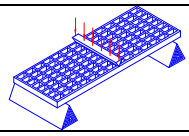
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

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]	
50	3800	7600	50	1150	2350
70	1350	2750	70	600	1200
90	650	1300	90	350	700
110	350	700	110	200	450

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	6950	50	1700
70	3550	70	1200
90	2150	90	950
110	1400	110	750

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.