M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
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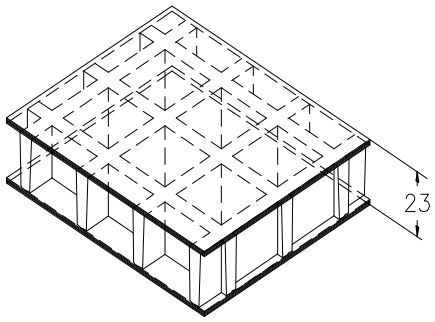
SCH 38/17DC_IFR

ESD line

06.05.2011 - Rev. 4

MOLDED GRATINGS

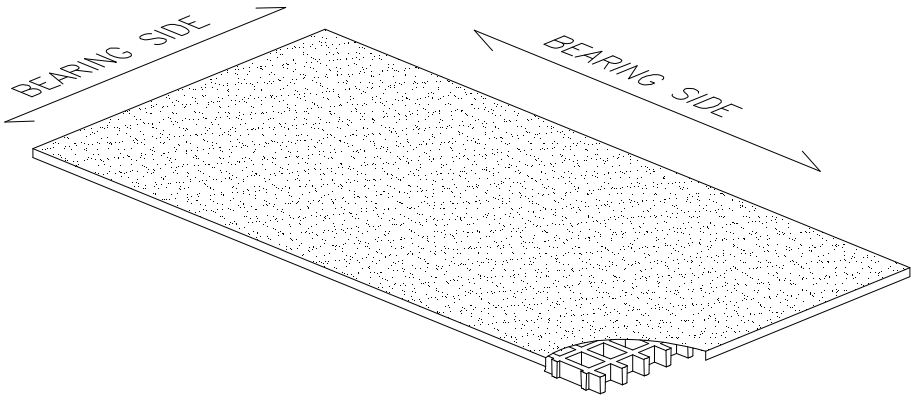
Mesh	mm 38 x 38		
Thickness	mm 23		
Cover thickness	mm 3	upper cover	
	mm 3	bottom cover	
Bearing bar thickness	mm 7	upper part	
	mm 5	bottom part	
Color	Top Coat Black		



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 1220 x 3660		
Weight kg/m² 21		
tolerance	± mm 5 panel dimensions	
	± mm 2 height	



IFR-ESD line	*Top Coat Polyester with Carbon black conductive powder*

Surface	A	Quartz	*Antiskid level R13 V4 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	*Antistatic Dissipative*	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

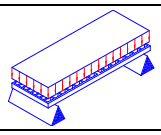
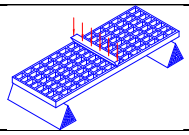
MAXIMUM SUGGESTED LOADS

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

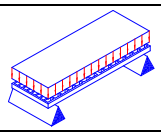
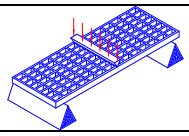
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

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]	[kg/m]	
30	14650	29300	30	2700	5450
50	3150	6300	50	950	1950
70	1150	2300	70	500	1000
90	500	1050	90	300	600

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]	
30	13750		30	2050	
50	4950		50	1200	
70	2500		70	850	
90	1500		90	650	

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.