M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
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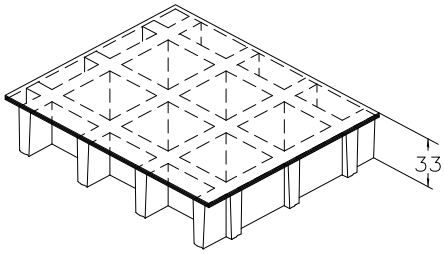
SCH 38/30C_IFR

ESD line

06.05.2011 - Rev. 4

MOLDED GRATINGS

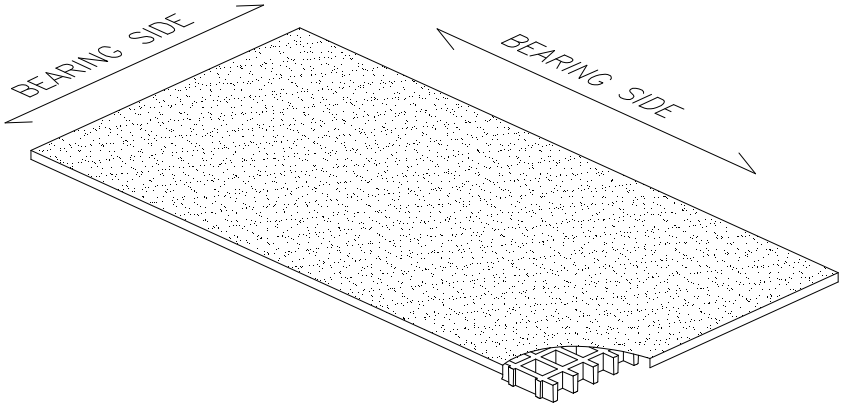
Mesh	mm 38 x 38	
Thickness	mm 33	
Cover thickness	mm 3	
Bearing bar thickness	mm 7 upper part	
	mm 5 bottom part	
Color	Top Coat Black	



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	250 MPa

Standard panels	
mm 1000 x 2000	
mm 1000 x 4038	
mm 1220 x 3660	
Weight kg/m² 23	
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

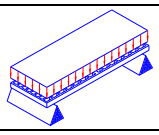
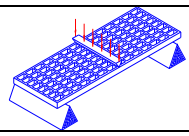
MAXIMUM SUGGESTED LOADS

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

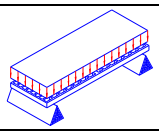
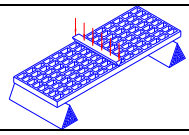
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

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]	
50	4050	8100		50	1250	2500
70	1450	2950		70	600	1250
90	650	1350		90	350	750
110	350	750		110	250	500

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	6550		50	1600	
70	3350		70	1150	
90	2000		90	900	
110	1350		110	700	

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.