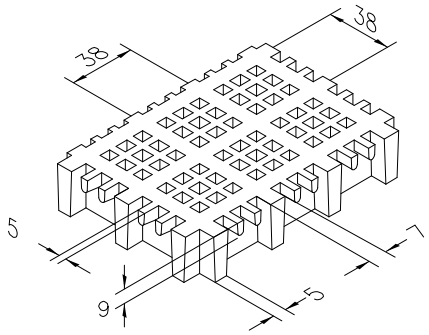
M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
33100 Udine - Italy
Cap. Soc. EURO 100.000 i.v.
P.Iva / C.F. 00477620306
Reg. Imp. UD 00477620306
R.E.A. UD-138461
ph. +39.0432.522970
fax +39.0432.522253
info@mmgrigliati.it

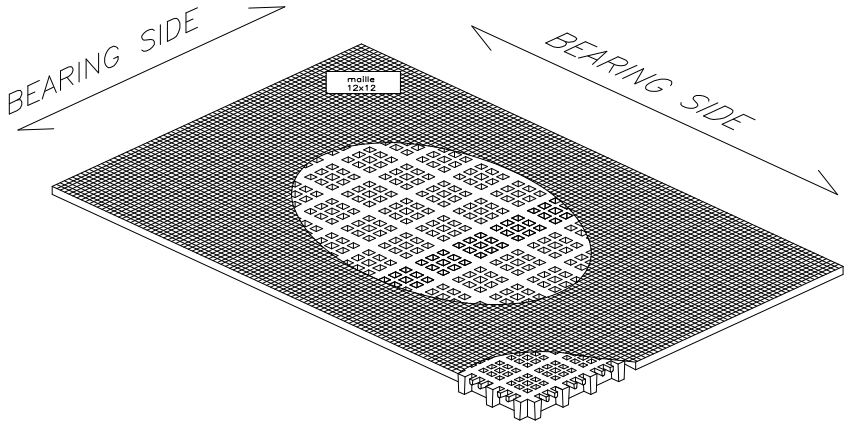
SCH 12/30_IFR
ESD line
06.05.2011 - Rev. 4

MOLDED GRATINGS

Mesh	**mm 38 x 38** main	
	mm 12 x 12 secondary	
Clear span	**mm 8 x 8**	
Height	**mm 30**	
Bearing bar thickness	**mm 7** upper part	
	mm 5 bottom part	
Color	**Top Coat Black**	

Raw materials	***Polyester Resin***
	Roving glass fiber type "E"
	Inorganic fillers without halogens

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

Standard panels		
mm 1220 x 3660		
mm 1000 x 4038		
Weight kg/m² 16		
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 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	***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

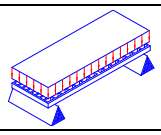
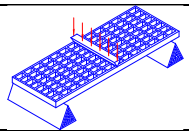
MAXIMUM SUGGESTED LOADS

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

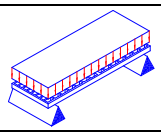
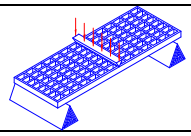
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

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	2200	4400	50	650	1350
70	800	1600	70	350	700
90	350	750	90	200	400
110	200	400	110	100	250

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	5350		50	1300	
70	2700		70	950	
90	1650		90	700	
110	1100		110	600	

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.