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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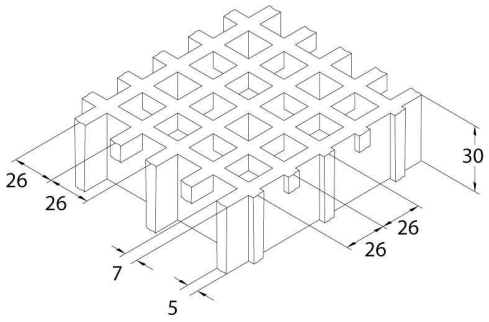
SCH 52/30_IFR
ESD line
06.05.2011 - Rev. 4

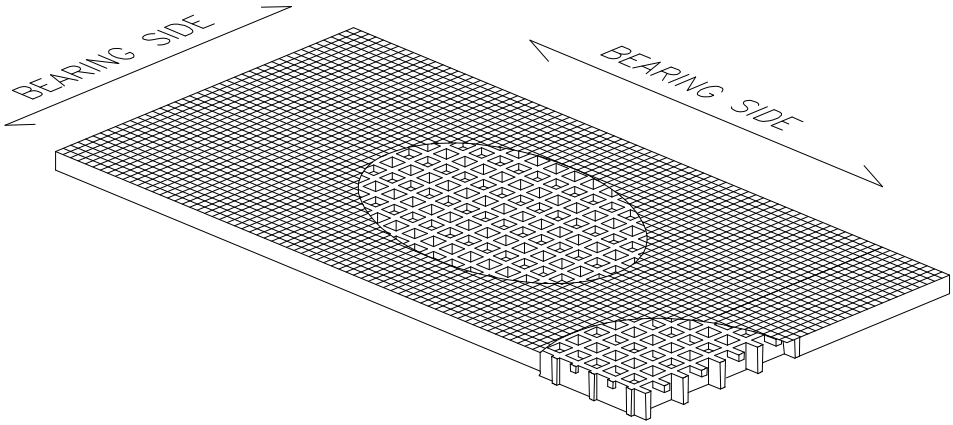
MOLDED GRATINGS

Mesh	mm 52 x 52 main	
	mm 26 x 26 secondary	
Clear span	mm 19 x 19	
Height	mm 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 1000 x 2000	
mm 1000 x 3000	
mm 1000 x 4050	
mm 1220 x 3660	
mm 1500 x 2000	
Weight kg/m² 15	
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

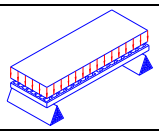
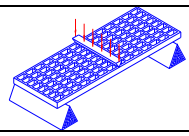
MAXIMUM SUGGESTED LOADS

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

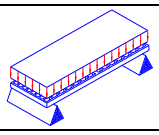
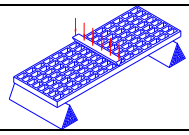
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

DISTRIBUTED LOAD			**CONCENTRATED LOAD**		
Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m²]	Load with deflection equal to 1/100 [kg/m²]	Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m]	Load with deflection equal to 1/100 [kg/m]
50	1600	3250	50	500	1000
70	550	1150	70	250	500
90	250	550	90	150	300
110	150	300	110	100	200

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 [cm]	Maximum admitted load [kg/m²]		Distance between supports [cm]	Maximum admitted load [kg/m]	
50	3900		50	950	
70	1950		70	650	
90	1200		90	500	
110	800		110	400	

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.