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

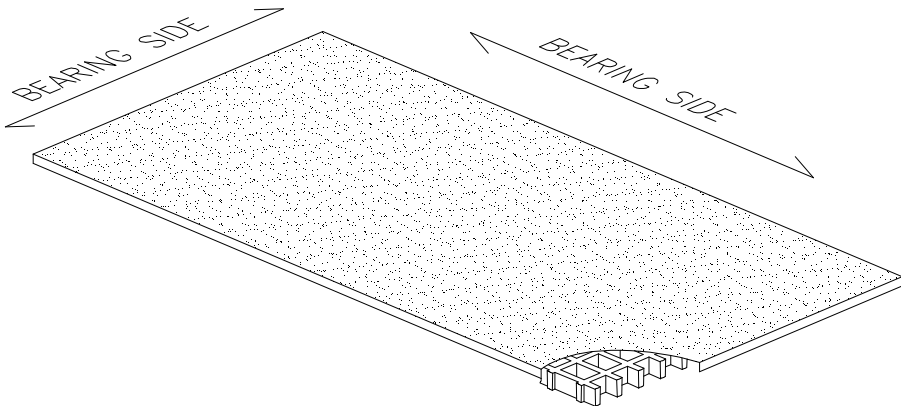ph. +39.0432.522970
fax +39.0432.522253
info@mmgrigliati.it

SCH 38/38C_IFR

ESD line

06.05.2011 - Rev. 4

MOLDED GRATINGS

Mesh	mm	38 x 38	
Thickness	mm	42	
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 3660	
mm 1225 x 3660	
Weight kg/m² 25	
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*
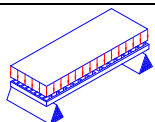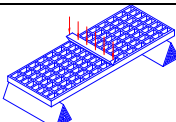
Reaction to fire	*Fire retardant*	**Spread ≤ 25 norm ASTM E84-98**
		ASTM D635 Elapsed time and burned length < 25 mm

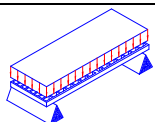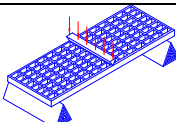| Surface and Volume electrical resistivity. Dielectric strength	*Antistatic Dissipative*	**EN 61340-2.3 Par. 8.1 and 8.2 – IEC 61340-4.1 Par. 5.1.2 ref. ISO 1957 – IEC 61340-4.5 – ASTM D149-97a**

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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

Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m²]	Load with deflection equal to 1/100 [kg/m²]
50	7900	15800
70	2850	5750
90	1350	2700
110	700	1450

CONCENTRATED LOAD

Distance between supports [cm]	Load with deflection equal to 1/200 [cm]	Load with deflection equal to 1/100 [cm]
50	2450	4900
70	1250	2500
90	750	1500
110	500	1000

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

Distance between supports [cm]	Maximum admitted load [kg/m²]
50	10400
70	5300
90	3200
110	2100

CONCENTRATED LOAD

Distance between supports [cm]	Maximum admitted load [kg/m]
50	2600
70	1850
90	1400
110	1150

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.