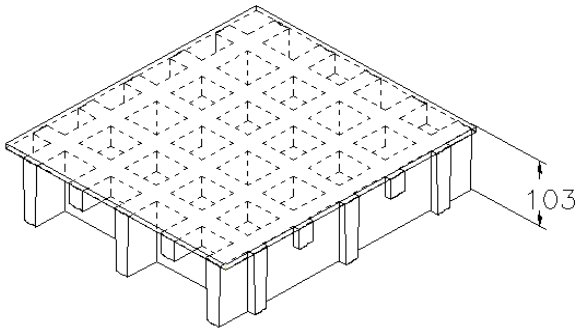
M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
Via Antonio Zanussi, 300/302
33100 Udine - Italy
Cap. Soc. EURO 100.000 i.v.
P.Iva / C.F. 00477620306
Reg. Imp. UD 00477620306
R.E.A. UD-138461
ph. +39.0432.522970
fax +39.0432.522253
info@mmgrigliati.it

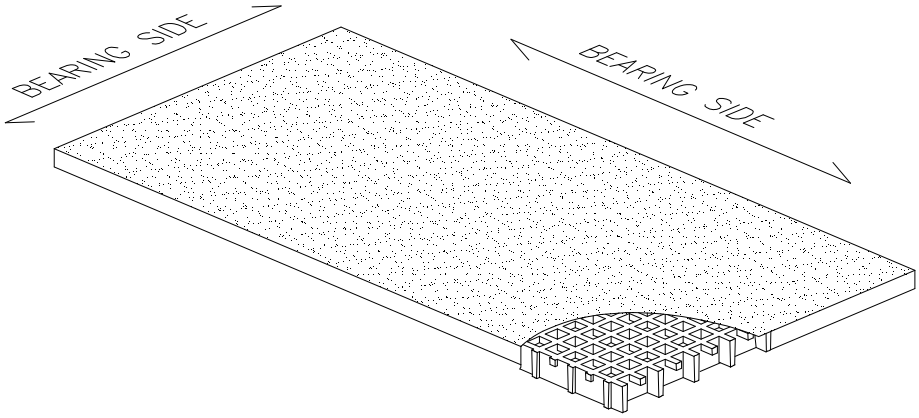
SCH
52/100C_CFR
27.08.2018 - Rev. 5

MOLDED GRATINGS

Mesh	**mm 52 x 52** main	
	mm 26 x 26 secondary	
Thickness	**mm 103**	
Cover thickness	**mm 3**	
Bearing bar thickness	**mm 10** upper part	
	mm 8 bottom part	
Color	**Black**	

Raw materials
Polyester Resin
Roving glass fiber + Mat and Woven Fabric type"E"
Inorganic fillers without halogens + Carbon black conductive powder

Resin type	***Modulus of elasticity***	***Ultimate stress***
CFR	15000 MPa	250 MPa

Standard panels		
mm 1010 x 1495		
Weight kg/m² 63		
tolerance	± mm 5 panel dimensions	
	± mm 2 height	

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	***Excellent Conductivity***	**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

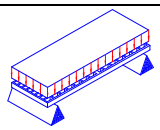
Type of support	On the line of the two ends of the panel

Limits determined by	**Deflection** (load sagging)

the **maximum deflection admitted,** is 1/200 of the distance between the supports

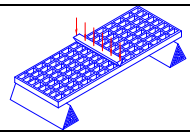
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

DISTRIBUTED LOAD



Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m²]	Load with deflection equal to 1/100 [kg/m²]
80	24800	49600
100	12700	25400
120	7350	14700
140	4600	9250

CONCENTRATED LOAD



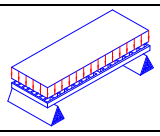
Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m]	Load with deflection equal to 1/100 [kg/m]
80	12400	24800
100	7900	15850
120	5500	11000
140	4050	8100

All lighter loads are admitted

Limits determined by	**Admitted stresses** (stress determined by the load)

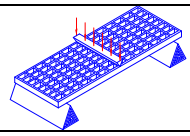
the **maximum admitted stress** is 1/5 of the ultimate stress
(safety factor is equal to 0.20 – the ultimate stress is 5 times the specified load)

DISTRIBUTED LOAD



Distance between supports [cm]	Maximum admitted load [kg/m²]
80	23900
100	15300
120	10600
140	7800

CONCENTRATED LOAD



Distance between supports [cm]	Maximum admitted load [kg/m]
80	9550
100	7650
120	6350
140	5450

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.