M.M. SRL a socio unico
soggetta ad attività di direzione
e coordinamento di 4M. srl

Via Antonio Zanussi 300/302
33100 Udine (Italy)
Cap. Soc. EURO 100.000 i.v.

P.Iva / C.F. 02984500302
Reg. Imp. PN-UD 02984500302
PEC mm-grigliati@pec-neispa.com

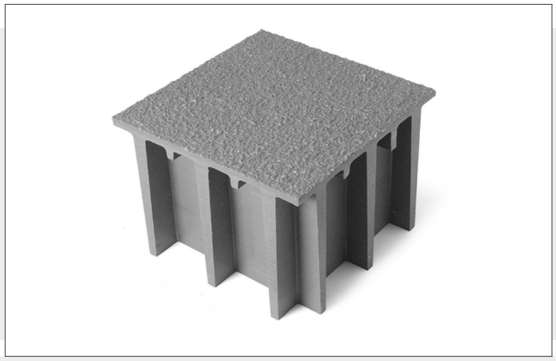
tel. +39.0432.522970
fax +39.0432.522253
info@mmgrigliati.it

GRATING — SCH52/100C IFR ST C

TYPE: **COVERED**

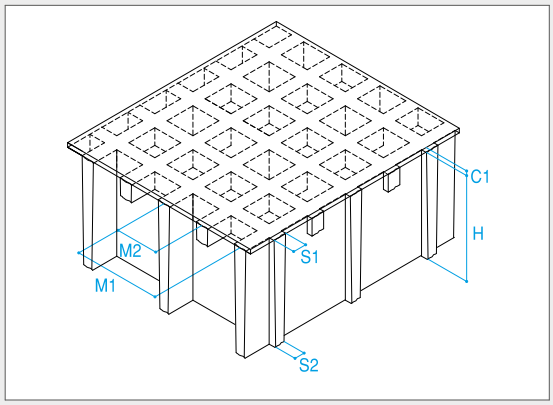
GROUP | **LINEA STANDARD**

RESIN: **Polyester self-extinguishing -- IFR**
REINFORCEMENT: **Roving glass fiber type"E"**
PROCESS ADDITIVES AND REACTION PROMOTERS:
Inorganic fillers without halogens
PRODUCTION TECNOLOGY:
RTM sresin transfer moulding
NORM: **DIN 24537-3**



MESH

MAIN MESH (M1)	mm 52X52
SECONDARY MESH (M2)	mm 26x26
HEIGH (H, H+C1, H+C1+C2)	mm 103

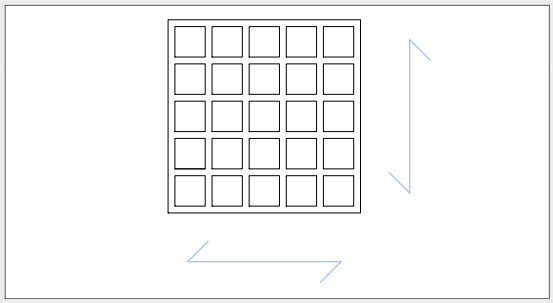


BEARING BAR

UPPER PART (S1)	mm 10
BOTTON PART (S2)	mm 8

COVER THICKNESS

UPPER PART (C1)	mm 3
BOTTOM PART (C2)	



WEIGHT: **63 Kg/m²**

PANEL'S BEARING DIRECTION: **both**

STANDARD FINISHING

Covered with quarz - Antiskid level R13 V4 norm DIN 51130

STANDARD PANELS AND COLOURS (Indicative RAL reference)

1010x1495	GREY RAL 7004

TOLERANCE ± 5 mm panel dimensions, +2/-2 mm height, +/- 6% weight.
All finishes different from the standard one (meniscus for gratings with open surface, quartz and chequered for gratings with covered surface) involve a surface processing of the grating that could result in a thickness and weight variation exceeding the indicated tolerances, while maintaining unchanged mechanical characteristics.

WE SUPPORT YOUR NEEDS

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ELECTRICAL PROPERTIES

Surface resistivity (Rs), transversal electric resistance (Rt)	norm EN 61340-2.3 par. 8.1 e 8.2 con rif. a ISO 1853, IEC 60167, HD568 S1	EXCELLENT INSULATOR
Resistivity and safety electric resistance to ground human body model	norm IEC 61340-4-5 – CEI 64-4/8/6 Par. 6.12.5 – IEC 60167 – HD 568 S1	EXCELLENT INSULATOR
Dielectric strenght	norm ASTM D 149-97a	VERY LOW CURRENT ABSORPTION

AGEING RESISTANCE

Ageing test made with UV lamp according to ASTM G154-06 and passed with 5 points on the gray range and without evident defects (test made with 1500 hours of exposure to 4 hours alternate cycles at a UV temperature of 60°C and 4 hours at a condensed temperature of 50°C irradiated by UVB 313 nm lamp, radiance 0,71 W/m²)

After the exposure to heat, cold and humidity cycles according to UNI EN ISO 9142/04 norm (n° 21 cycles type D3) there is no evidence of defects

REACTION TO FIRE - FLOORING

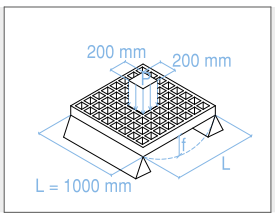
B_{fl}-s1	norm EN 13501-1	FIRE RETARDANT

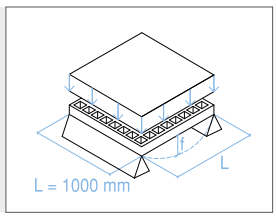
SMOKE DENSITY AND TOXICITY

F1	norm AFNOR NF16-101

2 SIDES BEARING (L=1000 mm)

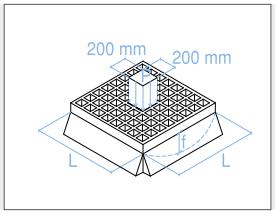
L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
ƒ (mm)	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
C (Kg)						8400	7200	6200	5400	4650	4050	3550
D (Kg/m²)						22300	15700	11500	8700	6700	5300	4250

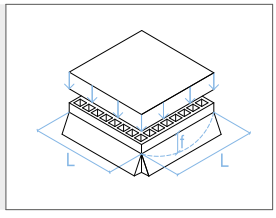




4 SIDES BEARING (equal sides grating)

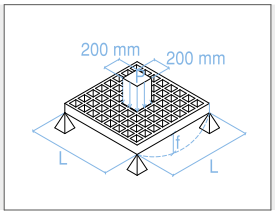
L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
ƒ (mm)	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
C (Kg)						10500	9200	8200	7400	6700	6200	5700
D (Kg/m²)						41100	28900	21100	15800	12200	9600	7700

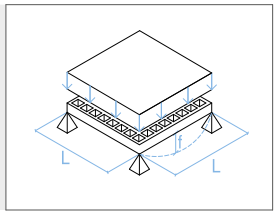




4-POINT BEARING (equal sides grating)

L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
ƒ (mm)	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
C (Kg)					6100	5100	4400	3900	3500	3150	2850	2650
D (Kg/m²)					18200	11800	8100	5800	4250	3200	2500	2000





C Concentrated load D Distributed load

The previous tables report the accidental loads that, to vary the distance between supports (L), determine one of the following conditions: deflection equal to 1/200 of the distance between supports (L); reaching of the resistance limit (USL).

In case of heavy duty load compressive strength must be verified.

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.