

GRATING

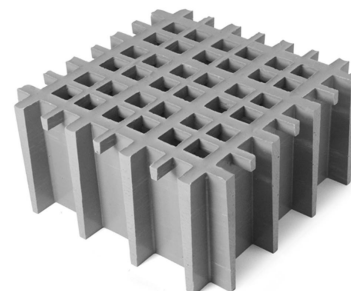
SCH52/100 IFR ST M

TYPE: MINI MESH

GROUP

LINEA STANDARD

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

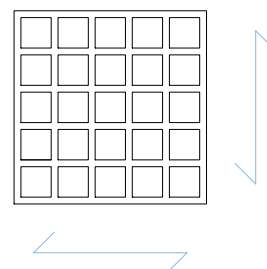
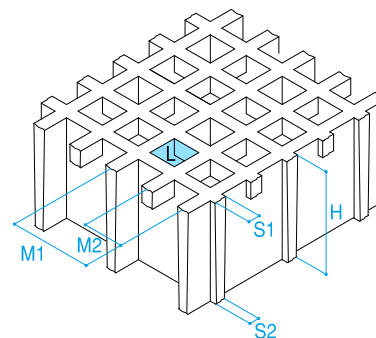


MESH

MAIN MESH (M1)	mm 52X52
SECONDARY MESH (M2)	mm 26x26
CLEAR SPAN (L)	mm 19x19
HEIGHT (H, H+C1, H+C1+C2)	mm 100

BEARING BAR

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



WEIGHT: 56 Kg/m²

PANEL'S BEARING DIRECTION: both

STANDARD FINISHING

Concave "Meniscus" type - antiskid level R13 V10 norm DIN 51130

STANDARD PANELS AND COLOURS (Indicative RAL reference)

1010x1495 GREY RAL 7004

TOLERANCE ± 5 mm panel dimensions, $\pm 2/-2$ mm height, $\pm 6\%$ 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.

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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

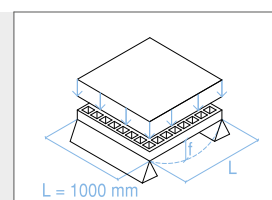
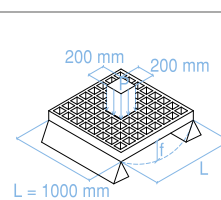
B _{fl} -s1	norm EN 13501-1	FIRE RETARDANT
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SMOKE DENSITY AND TOXICITY

F1	norm AFNOR NF16-101	
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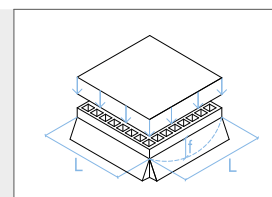
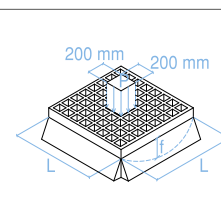
2 SIDES BEARING (L=1000 mm)

L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
f (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
G (Kg)			11500	9100	7600	6500	5600	4850	4250	3700	3250	2850
D (Kg/m²)			76900	44500	28100	18800	13200	9700	7300	5600	4400	3550



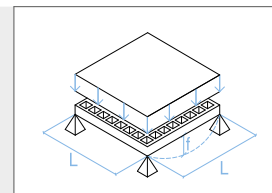
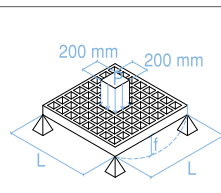
4 SIDES BEARING (equal sides grating)

L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
f (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
G (Kg)			13600	10800	9000	7700	6700	6000	5400	4900	4500	4150
D (Kg/m²)			122600	71000	44700	30000	21100	15400	11600	8900	7000	5600



4-POINT BEARING (equal sides grating)

L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
f (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
G (Kg)		10500	7600	5900	4850	4100	3500	3100	2750	2500	2250	2100
D (Kg/m²)		93000	44100	24000	14400	9300	6300	4500	3300	2500	1950	1500



G 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.