

GRATING

SCH38/30C CFR ST C

TYPE: COVERED

GROUP

LINEA STANDARD

RESIN: polyester self-extinguishing conductive -- CFR

REINFORCEMENT: Roving glass fiber type "E"

PROCESS ADDITIVES AND REACTION PROMOTERS:

Inorganic fillers without halogens + Carbon black conductive powder

PRODUCTION TECHNOLOGY:

RTM resin transfer moulding

NORM: DIN 24537-3



MESH

MAIN MESH (M1)	mm 38x38
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HEIGHT (H, H+C1, H+C1+C2)	mm 33
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BEARING BAR

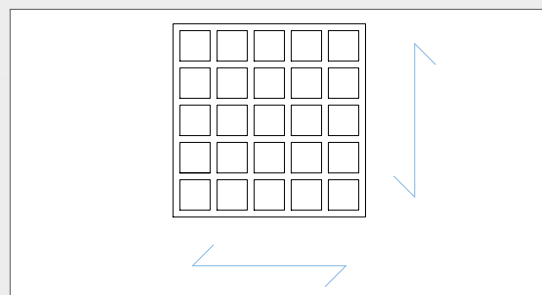
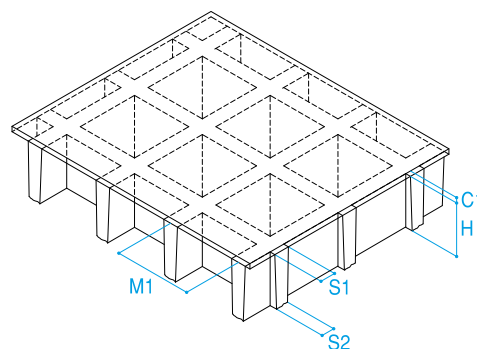
UPPER PART (S1)	mm 7
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BOTTOM PART (S2)	mm 5
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COVER THICKNESS

UPPER PART (C1)	mm 3
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BOTTOM PART (C2)	
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WEIGHT: 21 Kg/m²

PANEL'S BEARING DIRECTION: both

STANDARD FINISHING

Covered with quartz - Antiskid level R13 V4 norm DIN 51130

STANDARD PANELS AND COLOURS (Indicative RAL reference)

1000x2000 BLACK RAL 9011

1000x4038 BLACK RAL 9011

1220x3660 BLACK RAL 9011

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 N 61340-2.3 Par 8.1 e 8.2 – IEC 61340-4.1 Par. 5.1.2 con Rif. a ISO 1957 – IEC 61340-4.5	EXCELLENT CONDUCTOR
Resistivity and safety electric resistance to ground human body model	norm CEI 64-4/8/6 Par. 6.12.5 – IEC 61340-5-1 con Rif. a IEC 61010-1	EXCELLENT CONDUCTOR
Dielectric strenght		

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

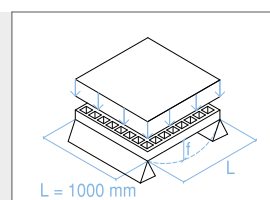
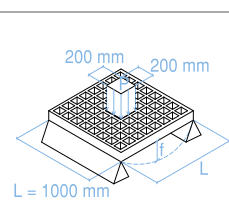
B _{fl} -s1	norm EN 13501-1	FIRE RETARDANT
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SMOKE DENSITY AND TOXICITY

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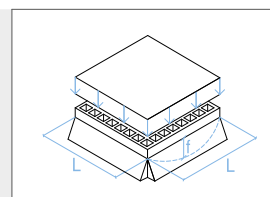
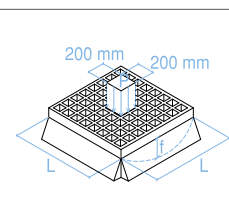
2 SIDES BEARING (L=1000 mm)

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)		750	550	435	360	300	255	220	185	160	140	
D (Kg/m²)		5600	2900	1700	1050	710	500	370	280	215	170	



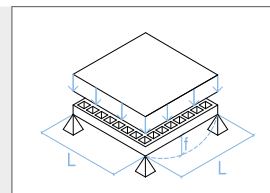
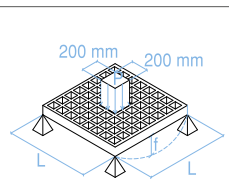
4 SIDES BEARING (equal sides grating)

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)		960	710	560	460	395	345	310	280	250	230	215
D (Kg/m²)		12500	6400	3700	2350	1600	1100	800	600	465	365	295



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)		420	310	245	200	170	150	130				
D (Kg/m²)		3650	1750	970	590	385	265	190				



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.