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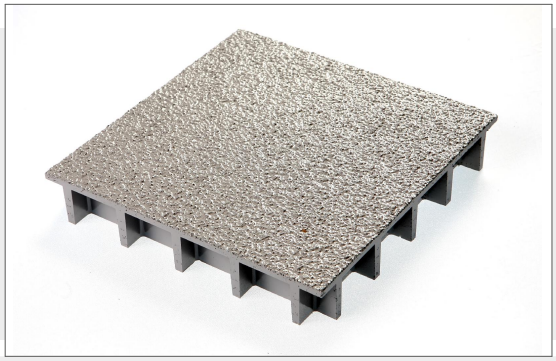
GRATING — SCH38/25C IFR ST C

TYPE: **COVERED** | GROUP | **LINEA STANDARD**

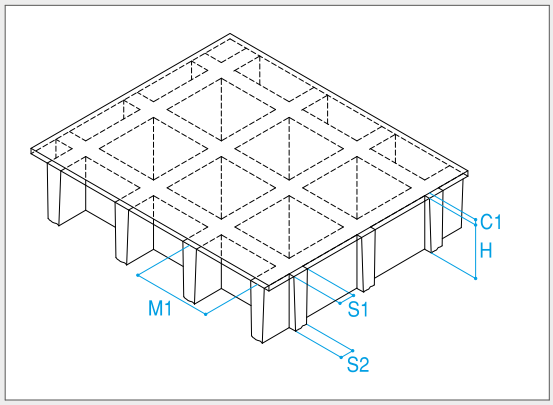
RESIN: **Polyester self-extinguishing -- IFR**
REINFORCEMENT: **Roving glass fiber type"E"**
PROCESS ADDITIVES AND REACTION PROMOTERS:
Inorganic fillers without halogens
PRODUCTION TECNOLOGY:
RTM resin transfer moulding
NORM: **DIN 24537-3**



MESH

MAIN MESH (M1)	mm 38x38

HEIGH (H, H+C1, H+C1+C2)	mm 28

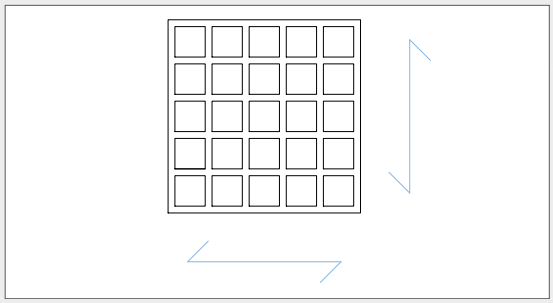


BEARING BAR

UPPER PART (S1)	mm 7
BOTTON PART (S2)	mm 5

COVER THICKNESS

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



WEIGHT: **19 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)

1000x2000	GREY RAL 7004
1000x4038	GREY RAL 7004
1220x3660	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

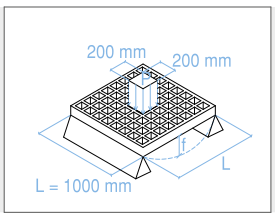
B_{fl}-s1	norm EN 13501-1	FIRE RETARDANT

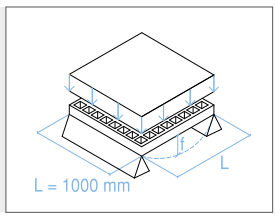
SMOKE DENSITY AND TOXICITY

F1	norm AFNOR NF16-101

2 SIDES BEARING (L=1000 mm)

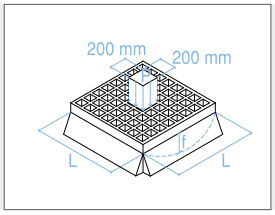
L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
ƒ (mm)	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
C (Kg)		475	350	280	230	190	160	140	120			
D (Kg/m²)		3500	1800	1050	660	440	315	230	175			

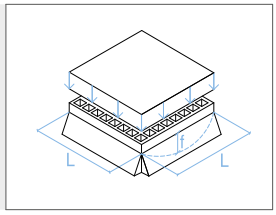




4 SIDES BEARING (equal sides grating)

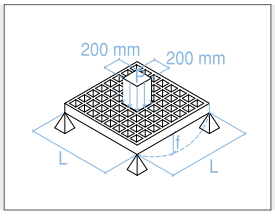
L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
ƒ (mm)	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
C (Kg)		620	450	355	295	255	220	195	180	160	150	140
D (Kg/m²)		8000	4100	2400	1500	1000	700	510	385	295	235	190

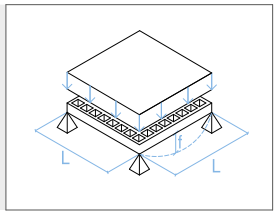




4-POINT BEARING (equal sides grating)

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)	415	265	195	155	130	110	93					
D (Kg/m²)	5900	2300	1150	610	375	245	170					





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.