

GRATING

SCH38/25DC IFR ST C

TYPE: DOUBLE 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 TECHNOLOGY:
RTM resin transfer moulding
NORM: DIN 24537-3



MESH

MAIN MESH (M1)	mm 38x38
----------------	----------

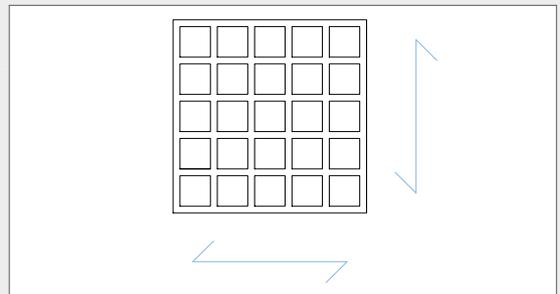
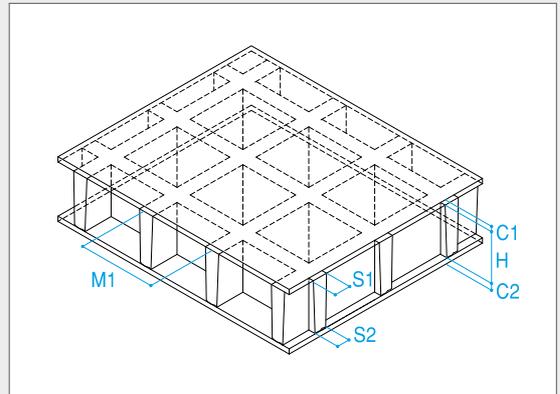
HEIGHT (H, H+C1, H+C1+C2)	mm 31
---------------------------	-------

BEARING BAR

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

COVER THICKNESS

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



WEIGHT: 25 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 GREY RAL 7004

1000x4038 GREY RAL 7004

1220x3660 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.

GRATING

SCH38/25DC IFR ST C

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

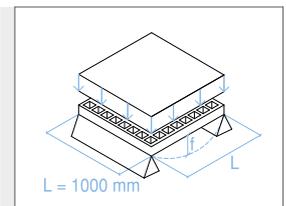
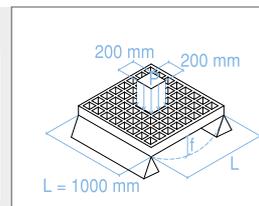
B _{fl} -s1	norm EN 13501-1	FIRE RETARDANT
---------------------	-----------------	----------------

SMOKE DENSITY AND TOXICITY

F1	norm AFNOR NF16-101	
----	---------------------	--

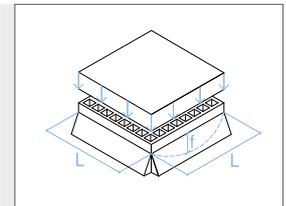
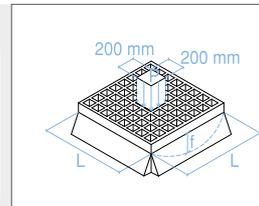
2 SIDES BEARING (L=1000 mm)

L (mm)	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
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)	1950	1300	940	730	590	480	400	335	280	240	210	180
D (Kg/m²)	19000	8100	4150	2400	1550	1050	720	530	395	305	245	195



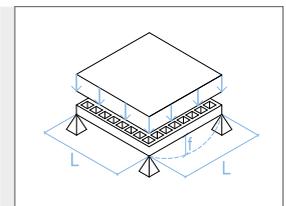
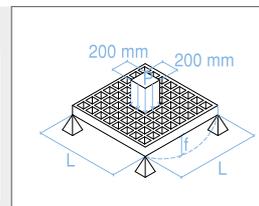
4 SIDES BEARING (equal sides grating)

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)		1900	1400	1100	890	760	660	590	530	480	445	410
D (Kg/m²)		24400	12500	7300	4550	3050	2150	1600	1200	910	710	570



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)	1050	650	480	380	315	270	235	210	185	170		
D (Kg/m²)	14400	5700	2800	1550	950	630	435	310	235	180		



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.