

## GRATING

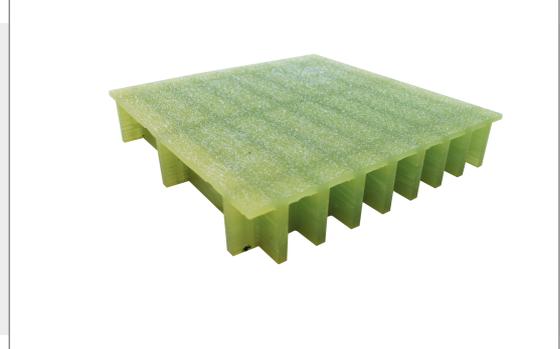
## SCH40/38C ISO PI CS

TYPE: COVERED

GROUP

LINEA PREMIUM

RESIN: **Isophthalic -- ISO**  
REINFORCEMENT: **Roving glass fiber type"E"**  
PROCESS ADDITIVES AND REACTION PROMOTERS:  
**Without inorganic fillers**  
PRODUCTION TECHNOLOGY:  
**RTM sresin transfer moulding**  
NORM: **DIN 24537-3**



### MESH

MAIN MESH (M1)	mm 40x40
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HEIGHT (H, H+C1, H+C1+C2)	mm 43
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### BEARING BAR

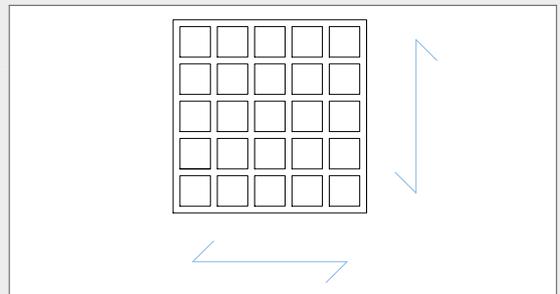
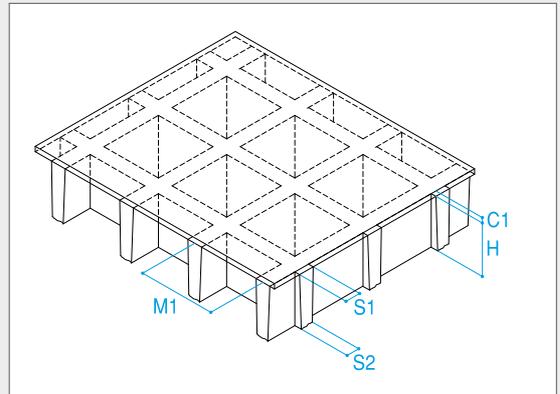
UPPER PART (S1)	mm 8
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BOTTOM PART (S2)	mm 7
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### COVER THICKNESS

UPPER PART (C1)	mm 5
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BOTTOM PART (C2)	
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WEIGHT: 27 Kg/m<sup>2</sup>

PANEL'S BEARING DIRECTION: both

### STANDARD FINISHING

Moulded covered "quartz" style - Antiskid level R13 V4 norm DIN 51130

### STANDARD PANELS AND COLOURS (Indicative RAL reference)

1000x2000 TRANSLUCENT GREEN

1200x3000 TRANSLUCENT GREEN

TOLERANCE  $\pm 5$  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

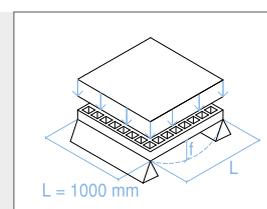
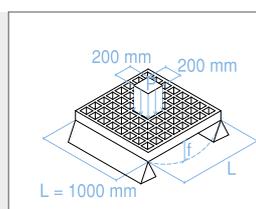
F <sub>fi</sub>	norm EN 13501-1	NOT DETERMINED
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### SMOKE DENSITY AND TOXICITY

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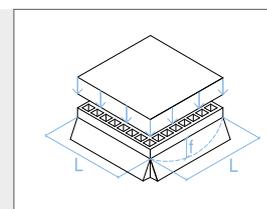
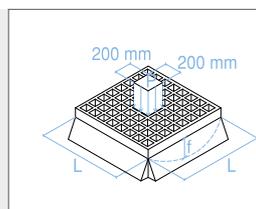
#### 2 SIDES BEARING (L=1000 mm)

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)			1550	1200	980	820	690	590	500	430	375	325
D (Kg/m²)			7600	4400	2800	1900	1350	970	740	570	450	365



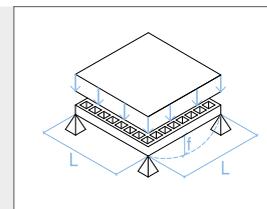
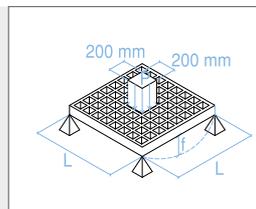
#### 4 SIDES BEARING (equal sides grating)

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)			1950	1550	1300	1100	960	850	770	700	640	600
D (Kg/m²)			17800	10300	6500	4350	3050	2250	1700	1300	1050	810



#### 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)			840	660	550	460	400	355	320	290	265	245
D (Kg/m²)			4800	2650	1650	1100	730	520	385	295	230	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.