

## GRATING

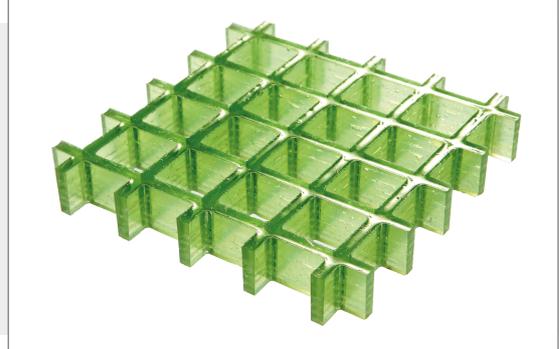
SCH40/38 ISO PI M

TYPE: SQUARE MESH

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**

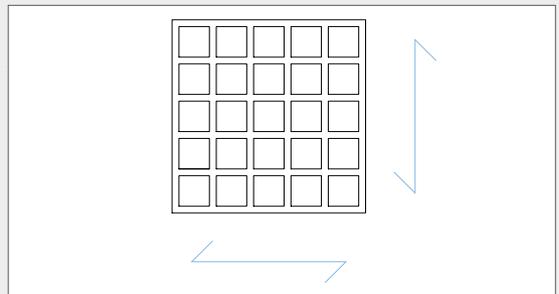
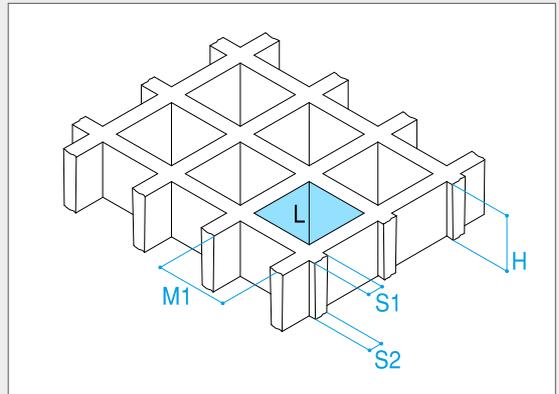


### MESH

MAIN MESH (M1)	mm 40x40
CLEAR SPAN (L)	mm 32x32
HEIGHT (H, H+C1, H+C1+C2)	mm 38

### BEARING BAR

UPPER PART (S1)	mm 8
BOTTOM PART (S2)	mm 7



WEIGHT: 19 Kg/m<sup>2</sup>

PANEL'S BEARING DIRECTION: both

### STANDARD FINISHING

Concave "Meniscus" type - antiskid level R13 V10 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

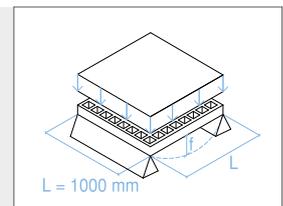
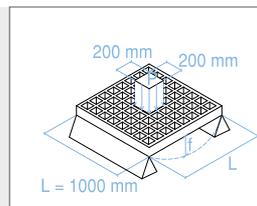
$F_{fi}$	norm EN 13501-1	NOT DETERMINED
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### SMOKE DENSITY AND TOXICITY

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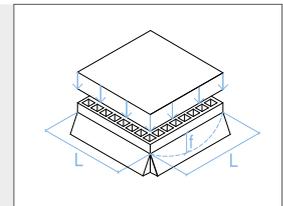
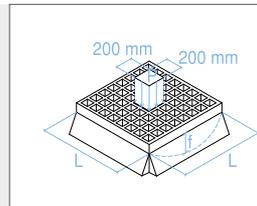
#### 2 SIDES BEARING (L=1000 mm)

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)			490	385	320	275	235	205	180	155	140	
D (Kg/m²)			3250	1900	1200	790	560	405	305	235	185	



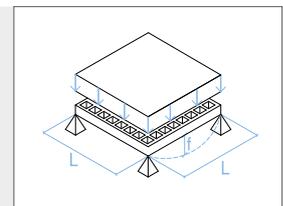
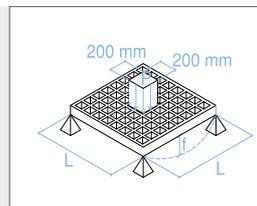
#### 4 SIDES BEARING (equal sides grating)

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)			580	460	380	330	285	255	230	210	195	180
D (Kg/m²)			5300	3050	1950	1300	900	660	495	380	300	240



#### 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)			300	235	195	165	145	125				
D (Kg/m²)			1700	940	570	365	250	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.