

**SCH 38/25\_CFR**

06.05.2011 - Rev. 4

**MOLDED GRATINGS**

<b>Mesh</b>	<b>mm 38 x 38</b>	
<b>Clear span</b>	<b>mm 31 x 31</b>	
<b>Height</b>	<b>mm 25</b>	
<b>Bearing bar thickness</b>	<b>mm 7</b> upper part	
	<b>mm 5</b> bottom part	
<b>Color</b>	<b>Black</b>	

<b>Raw materials</b>	<b>Polyester Resin</b>
	<b>Roving glass fiber type "E"</b>
	<b>Inorganic fillers without halogens + Carbon black conductive powder</b>

<b>Resin type</b>	<b>Modulus of elasticity</b>	<b>Ultimate stress</b>
<b>CFR</b>	15000 MPa	325 MPa

<b>Standard panels</b>	
mm 1000 x 2000	
mm 1000 x 3000	
mm 1000 x 4038	
mm 1220 x 3660	
<b>Weight kg/m<sup>2</sup> 11</b>	
<b>tolerance</b>	± mm 5 panel dimensions ± mm 2 height

<b>Surface</b>	M	<b>Meniscus</b>	<b>Antiskid level R13 V10 norm DIN 51130</b>
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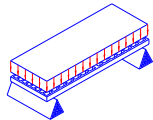
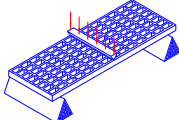
<b>Reaction to fire</b>	<b>Fire retardant</b>	<b>Spread ≤ 25 norm ASTM E84-98</b>
		<b>ASTM D635 Elapsed time and burned length &lt; 25 mm</b>

<b>Surface and Volume electrical resistivity. Dielectric strength</b>	<b>Excellent Conductivity</b>	<b>EN 61340-2.3 Par. 8.1 and 8.2 – IEC 61340-4.1 Par. 5.1.2 ref. ISO 1957 – IEC 61340-4.5 - ASTM D149-97a</b>
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## LOADS

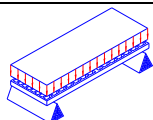
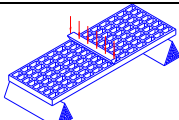
### MAXIMUM SUGGESTED LOADS

Type of support	<b>On the line of the two ends of the panel</b>
Limits determined by	<b>Deflection</b> (load sagging)
the <b>maximum deflection admitted</b> , is 1/200 of the distance between the supports	
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.	

<b>DISTRIBUTED LOAD</b>			<b>CONCENTRATED LOAD</b>		
					
Distance between supports	Load with deflection equal to 1/200	Load with deflection equal to 1/100	Distance between supports	Load with deflection equal to 1/200	Load with deflection equal to 1/100
[cm]	[kg/m <sup>2</sup> ]		[cm]	[kg/m]	
30	4450	8900	30	800	1650
50	950	1900	50	300	600
70	350	700	70	150	300
90	150	300	90	50	150

All lighter loads are admitted

Limits determined by	<b>Admitted stresses</b> (stress determined by the load)
the <b>maximum admitted stress</b> is 1/5 of the ultimate stress (safety factor is equal to 0.20 – the ultimate stress is 5 times the specified load)	

<b>DISTRIBUTED LOAD</b>		<b>CONCENTRATED LOAD</b>		
				
Distance between supports	Maximum admitted load		Distance between supports	Maximum admitted load
[cm]	[kg/m <sup>2</sup> ]		[cm]	[kg/m]
30	9100		30	1350
50	3250		50	800
70	1650		70	550
90	1000		90	450

All lighter loads are admitted

- 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.
- In case of heavy duty load compressive strength must be verified.