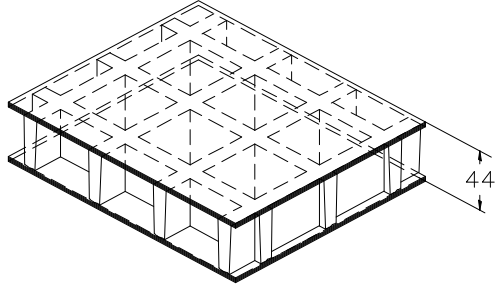


SCH 38/38DC\_CFR

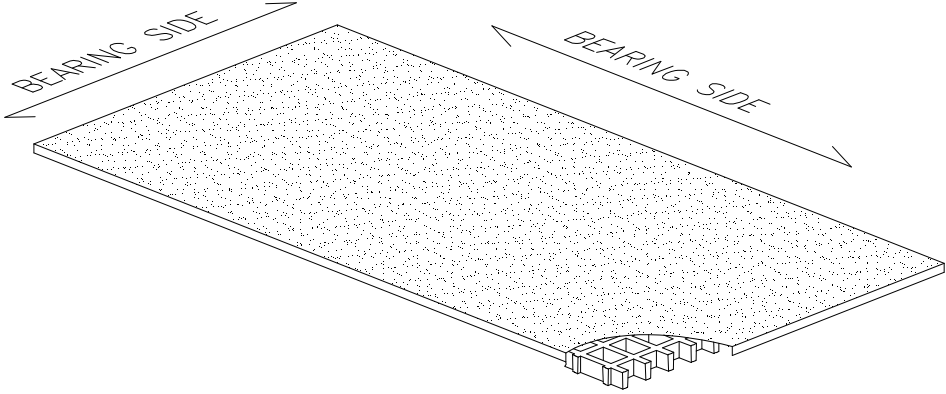
06.05.2011 - Rev. 4

**MOLDED GRATINGS**

<b>Mesh</b>	<b>mm 38 x 38</b>	
<b>Thickness</b>	<b>mm 44</b>	
<b>Cover thickness</b>	<b>mm 3</b> upper cover	
	<b>mm 3</b> bottom cover	
<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 + Mat and Woven Fabric 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	130 MPa

<b>Standard panels</b>	
mm 1000 x 1800	
mm 1000 x 3660	
mm 1220 x 3660	
<b>Weight kg/m<sup>2</sup> 30</b>	
<b>tolerance</b>	

<b>Surface</b>	A	<b>Quartz</b>	<b>Antiskid level R13 V4 norm DIN 51130</b>
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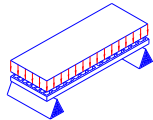
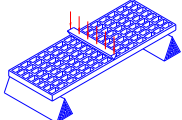
<b>Reaction to fire</b>	<b>Fire retardant</b>	<b>Spread ≤ 25 norm ASTM E84-98</b>
		<b>ASTM D635 Elapsed time and burned length &lt; 25 mm</b>

<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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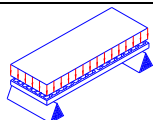
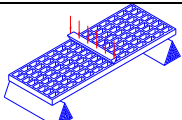
## LOADS

### 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]	
50	15350	30700	50	4750	9550
70	5550	11150	70	2400	4850
90	2600	5250	90	1450	2950
110	1400	2850	110	950	1950
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]
50	12600	50	3150
70	6400	70	2250
90	3850	90	1750
110	2600	110	1400
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.