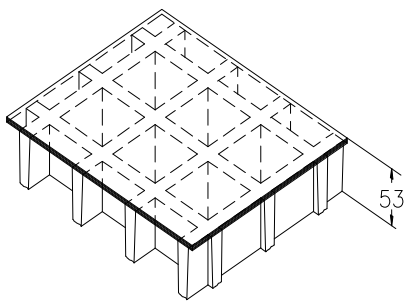


SCH 50/50C\_CFR

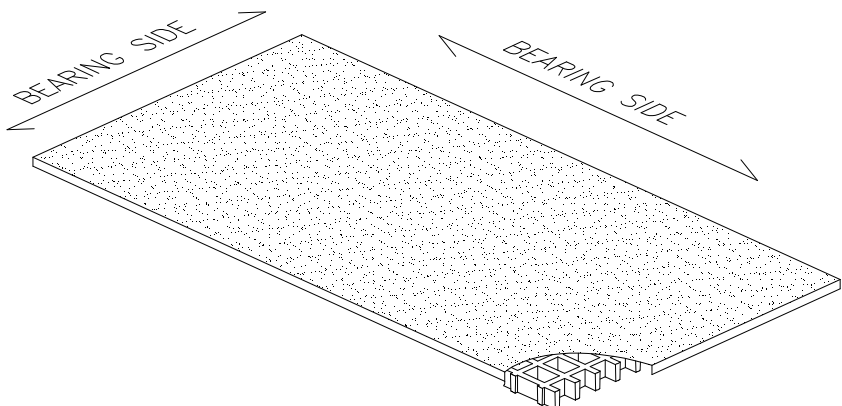
06.05.2011 - Rev. 4

**MOLDED GRATINGS**

<b>Mesh</b>	mm 50 x 50	
<b>Thickness</b>	mm 53	
<b>Cover thickness</b>	mm 3	
<b>Bearing bar thickness</b>	mm 8 upper part	
	mm 5 bottom part	
<b>Color</b>	Black	

<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>
CFR	15000 MPa	250 MPa

<b>Standard panels</b>					
mm 1220 x 3660					
<b>Weight kg/m<sup>2</sup> 27,5</b>	<table border="1"> <tr> <td><b>tolerance</b></td> <td>± mm 5 panel dimensions</td> </tr> <tr> <td></td> <td>± mm 2 height</td> </tr> </table>	<b>tolerance</b>	± mm 5 panel dimensions		± mm 2 height
<b>tolerance</b>		± mm 5 panel dimensions			
	± mm 2 height				

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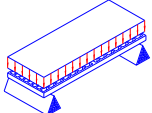
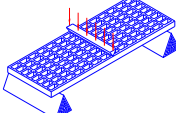
<b>Reaction to fire</b>	<b>Fire retardant</b>	<b>Spread ≤ 25 norm ASTM E84-98</b>
		<b>ASTM D635 Elapsed time and burned length &lt; 25 mm</b>

<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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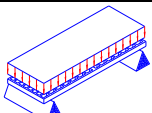
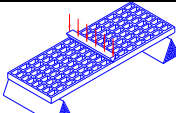
## LOADS

### 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.	

DISTIBUTED LOAD			CONCENTRATED LOAD			
	Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m <sup>2</sup> ]		Load with deflection equal to 1/100	Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m]
	70	4900	9850	70	2150	4300
	90	2300	4600	90	1300	2600
	110	1250	2500	110	850	1700
	130	750	1500	130	600	1250
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)	

DISTIBUTED LOAD			CONCENTRATED LOAD		
	Distance between supports [cm]	Maximum admitted load [kg/m <sup>2</sup> ]		Distance between supports [cm]	Maximum admitted load [kg/m]
	70	7150	70	2500	
	90	4300	90	1950	
	110	2900	110	1600	
	130	2050	130	1350	
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.