

SCH 38/38\_IFR

ESD line

06.05.2011 - Rev. 4

## MOLDED GRATINGS

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

<b>Raw materials</b>	<b>Polyester Resin</b>
	<b>Roving glass fiber type "E"</b>
	<b>Inorganic fillers without halogens</b>

<b>Resin type</b>	<b>Modulus of elasticity</b>	<b>Ultimate stress</b>
<b>IFR</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	
mm 1220 x 4038	
<b>Weight</b> kg/m <sup>2</sup> 18	
<b>tolerance</b>	± mm 5 panel dimensions
	± mm 2 height

<b>IFR-ESD line</b>	<b>Top Coat Polyester with Carbon black conductive powder</b>
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<b>Surface</b>	A	<b>Quartz</b>	<b>Antiskid level R13 V10 norm DIN 51130</b>
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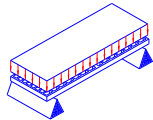
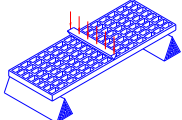
<b>Reaction to fire</b>	<b>Fire retardant</b>	<b>Spread ≤ 25 norm ASTM E84-98</b>
		<b>ASTM D635 Elapsed time and burned length &lt; 25 mm</b>

<b>Surface and Volume electrical resistivity. Dielectric strength</b>	<p><b>Antistatic Dissipative</b></p>	<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

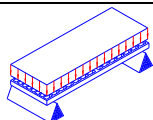
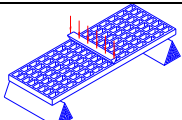
### MAXIMUM SUGGESTED LOADS

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	3350	6750	50	1050	2100
70	1200	2450	70	500	1050
90	550	1150	90	300	650
110	300	600	110	200	400

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	7600		50	1900
70	3850		70	1350
90	2300		90	1050
110	1550		110	850

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.