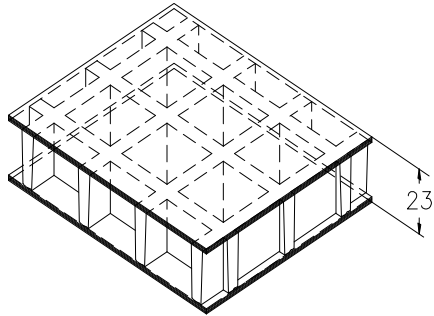


SCH 38/17DC\_VIN

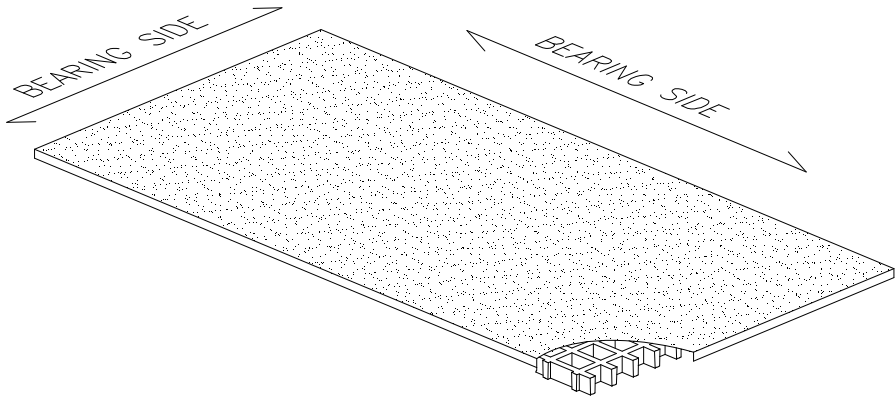
06.05.2011 - Rev. 4

## MOLDED GRATINGS

<b>Mesh</b>	<b>mm 38 x 38</b>	
<b>Thickness</b>	<b>mm 23</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>Natural translucent</b>	

<b>Raw materials</b>	<b>Vinylester Resin</b>	
	<b>Roving glass fiber + Mat and Woven Fabric type "ECR"</b>	
	<b>Without inorganic fillers</b>	

<b>Resin type</b>	<b>Modulus of elasticity</b>	<b>Ultimate stress</b>
<b>VIN</b>	<b>12250 MPa</b>	<b>130 MPa</b>

<b>Standard panels</b>	
<b>mm 1220 x 3660</b>	
<b>Weight kg/m² 19</b>	
<b>tolerance</b>	

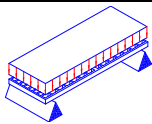
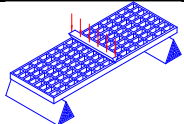
<b>Surface</b>	<b>A</b>	<b>Quartz</b>	<b>Antiskid level R13 V4 norm DIN 51130</b>
----------------	----------	---------------	---

<b>Ageing resistance</b>	<b>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)</b>
	<b>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</b>

## LOADS

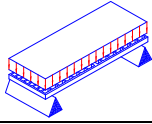
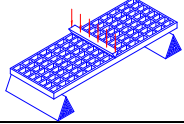
### MAXIMUM SUGGESTED LOADS

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.	

DISTRIBUTED 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]
	30	11950	23900	30	2200	4450
	50	2550	5150	50	800	1600
	70	900	1850	70	400	800
	90	400	850	90	200	450

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)	

DISTRIBUTED LOAD			CONCENTRATED LOAD		
	Distance between supports [cm]	Maximum admitted load [kg/m <sup>2</sup> ]		Distance between supports [cm]	Maximum admitted load [kg/m]
	30	13750	30	2050	
	50	4950	50	1200	
	70	2500	70	850	
	90	1500	90	650	

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.