



# MOLDED GRATINGS

Grating type SCH 40/28\_ISO

<b>Mesh</b>	mm 40 x 40	
<b>Clear span</b>	mm 32 x 32	
<b>Height</b>	mm 28	
<b>Bearing bar thickness</b>	mm 8 upper part	
	mm 7 bottom part	
<b>Color</b>	Translucent green	

<b>Raw materials</b>	<b>ISOPHTALIC Polyester Resin</b>
	<b>Roving glass fiber type "ECR"</b>
	<b>Without inorganic fillers</b>

<b>Standard panels</b>	
mm 1000 x 2000	
mm 1200 x 3000	
<b>Weight kg/m<sup>2</sup> 15</b>	
<b>tolerance</b>	

<b>Surface</b>	S	<b>Smooth</b>	<i>Antiskid level R10 V10 norm DIN E51130</i>
	M	<b>Meniscus</b>	<i>Antiskid level R13 V10 norm DIN E51130</i>
	A	<b>Quartz</b>	<i>Antiskid level R13 V10 norm DIN E51130</i>

<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</b> (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/m <sup>2</sup> )
	<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>



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**SCH 40/28\_ISO**

20.05.2009

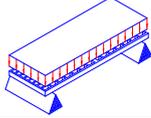
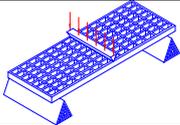
Rev. 2

COMPANY  
WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
**ISO 9001:2000**

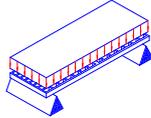
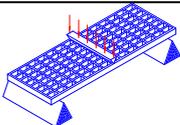
## LOADS

### MAXIMUM SUGGESTED LOADS

Type of support	On the line of the two ends of the panel
Limits determined by	<b>Deflection</b> (load sagging)
the <b>maximum deflection admitted</b> is 1/100 of the distance between the supports	

<b>DISTRIBUTED LOAD</b>		<b>CONCENTRATED LOAD</b>	
Distance between supports	Load with deflection equal to 1/100	Distance between supports	Load with deflection equal to 1/100
[cm]	[kg/m <sup>2</sup> ]	[cm]	[kg/m]
50	2600	50	800
70	950	70	400
90	450	90	250
110	200	110	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 breakdown stress (safety coefficient is equal to 5 – the breakdown 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 load admitted
[cm]	[kg/m <sup>2</sup> ]	[cm]	[kg/m]
50	6350	50	1550
70	3250	70	1100
90	1950	90	850
110	1300	110	700
All lighter loads are admitted			

The information specified in the above table is to be considered as an average value and variations may reach a  $\pm 15\%$ .

The above characteristics are meant as reference values for standard material. Even if they are not to be considered as guaranteed characteristics they are based on our experience and are supplied in good faith.



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