



MOLDED GRATINGS

Grating type SCH 40/28C_IFR

Mesh	mm 40 x 40	
Thickness	mm 35	
Cover thickness	mm 5	
Bearing bar thickness	mm 8 upper part mm 7 bottom part	
Color	Grey RAL 7004	

Raw materials	Polyester Resin
	Roving glass fiber + Mat and lath type "E"
	Inorganic fillers without halogens

Standard panels	
mm 1000 x 2000	
mm 1200 x 3000	
Weight kg/m² 23	
tolerance	

Surface	S	Smooth	<i>Antiskid level R10 V4 norm DIN E51130</i>
	A	Moulded rough	<i>Antiskid level R13 V4 norm DIN E51130</i>

Reaction to fire	Fire retardant	Spread ≤ 25 norm ASTM E84-98
		Level V-0 norm UL94 Vertical Burning Test

Ageing resistance	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/m ²)
	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



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SCH 40/28C_IFR

20.05.2009

Rev. 2

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

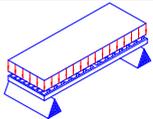
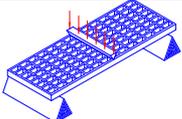
LOADS

MAXIMUM SUGGESTED LOADS

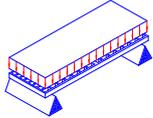
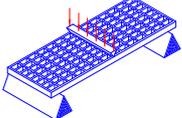
Type of support	On the line of the two ends of the panel
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Limits determined by	Deflection (load sagging)
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the maximum deflection admitted is 1/100 of the distance between the supports	
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DISTRIBUTED LOAD		CONCENTRATED LOAD	
Distance between supports	Load with deflection equal to 1/100	Distance between supports	Load with deflection equal to 1/100
[cm]	[kg/m ²]	[cm]	[kg/m]
50	6450	50	2000
70	2350	70	1000
90	1100	90	600
110	600	110	400
All lighter loads are admitted			

Limits determined by	Admitted stresses (stress determined by the load)
the maximum admitted stress is 1/5 of the breakdown stress (safety coefficient is equal to 5 – the breakdown stress is 5 times the specified load)	

DISTRIBUTED LOAD		CONCENTRATED LOAD	
Distance between supports	Maximum admitted load	Distance between supports	Maximum load admitted
[cm]	[kg/m ²]	[cm]	[kg/m]
50	9700	50	2400
70	4950	70	1700
90	3000	90	1300
110	2000	110	1100
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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