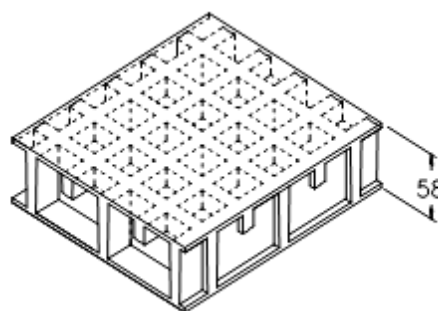


SCH 52/52DC_IFR

06.05.2011 - Rev. 4

MOLDED GRATINGS

Mesh	mm 52 x 52	main
	mm 26 x 26	secondary
Thickness	mm 58	
Cover thickness	mm 3	upper cover
	mm 3	bottom cover
Bearing bar thickness	mm 8	upper part
	mm 7	bottom part
Color	Grey RAL 7004 <i>indicative RAL reference</i>	



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

Resin type	Modulus of elasticity	Ultimate stress
IFR	15000 MPa	130 MPa

Standard panels	
mm 1000 x 3000	
mm 1000 x 4050	
Weight kg/m² 44,5	
tolerance	± mm 5 panel dimensions
	± mm 2 height

Surface	A	Quartz	Antiskid level R13 V4 norm DIN 51130
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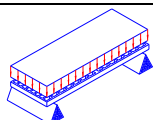
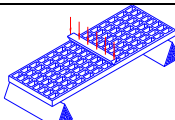
Reaction to fire	Fire retardant	Spread ≤ 25 norm ASTM E84-98
		Level B_f-S1 norm EN 13501-1

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/m²)	
	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	

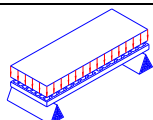
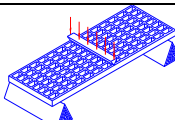
LOADS

MAXIMUM SUGGESTED LOADS

Type of support	On the line of the two ends of the panel
Limits determined by	Deflection (load sagging)
the maximum deflection admitted , 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	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 ²]		[cm]	[kg/m]	
70	10850	21750	70	4750	9500
90	5100	10200	90	2850	5750
110	2800	5600	110	1900	3850
130	1650	3350	130	1350	2750
All lighter loads are admitted					

Limits determined by	Admitted stresses (stress determined by the load)
the maximum admitted stress 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	Maximum admitted load	Distance between supports	Maximum admitted load
[cm]	[kg/m ²]	[cm]	[kg/m]
70	9450	70	3300
90	5700	90	2550
110	3800	110	2100
130	2750	130	1750
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.