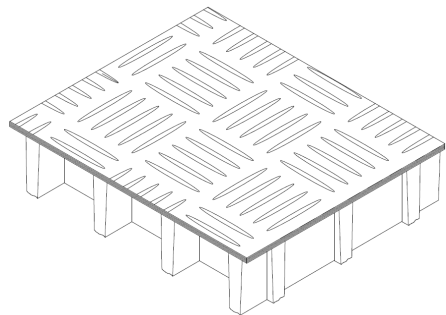


SCH 38/25CH_IFR

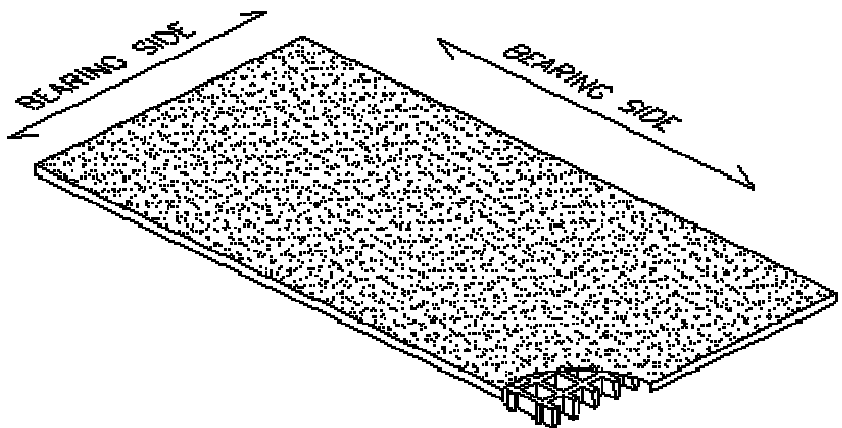
21.09.2017 - Rev. 0

MOLDED GRATINGS

Mesh	mm 38 x 38	
Thickness	mm 28	
Cover thickness	mm 3	
Bearing bar thickness	mm 7 upper part	
	mm 5 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	250 MPa

Standard panels	
mm 1000 x 2000	
mm 1000 x 4038	
mm 1220 x 3660	
Weight kg/m² 20	
tolerance	± mm 5 panel dimensions
	± mm 2 height

Surface	CH	checked	Antiskid level R10 V4 norm DIN 51130
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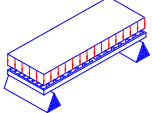
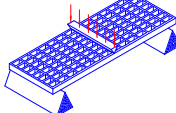
Reaction to fire	Fire retardant	Spread ≤ 25 norm ASTM E84-98
		Level B_f-S1 norm EN 13501-1

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

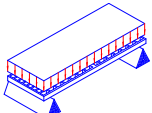
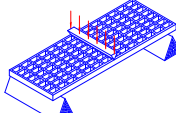
LOADS

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 neighboring 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 ²]		Load with deflection equal to 1/100	Distance between supports [cm]	Load with deflection equal to 1/200 [kg/m]
	30	11850	23700	30	2200	4400
	50	2550	5100	50	800	1600
	70	900	1850	70	400	800
	90	400	850	90	200	450
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 [cm]	Maximum admitted load [kg/m ²]		Distance between supports [cm]	Maximum admitted load [kg/m]
	30	13300	30	2000	
	50	4800	50	1200	
	70	2400	70	850	
	90	1450	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 always be verified by contacting M.M. technical department.
- In case of heavy duty load compressive strength must be verified.