M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures
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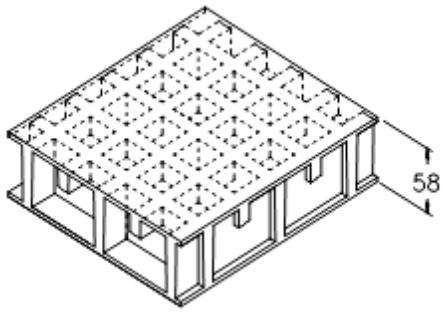
SCH 52/52DC_IFR

ESD line

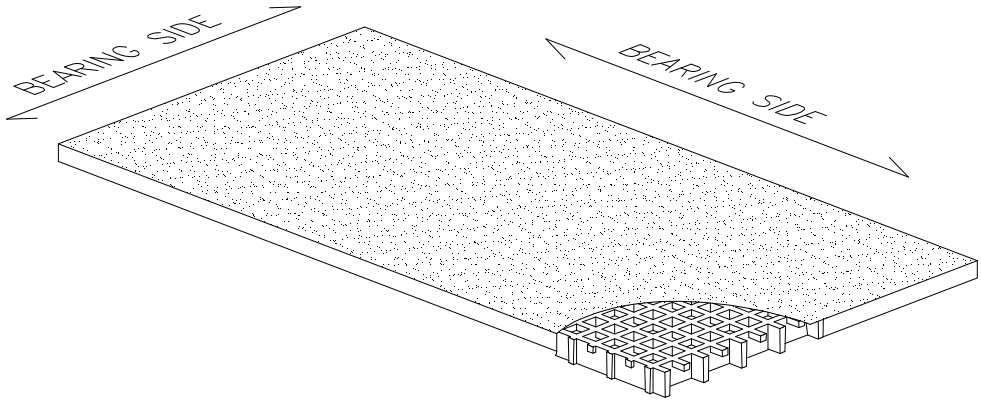
06.05.2011 - Rev. 4

# 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*** | **Top Coat Black** | |

| | |
|---|---|
| ***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 | |

| | |
|---|---|
| ***IFR-ESD line*** | ***Top Coat Polyester with Carbon black conductive powder*** |

| | | | |
|---|---|---|---|
| ***Surface*** | A | **Quartz** | ***Antiskid level R13 V4 norm DIN 51130*** |

| | | |
|---|---|---|
| ***Reaction to fire*** | ***Fire retardant*** | **Spread ≤ 25 norm ASTM E84-98** |
| | | **ASTM D635 Elapsed time and burned length < 25 mm** |

| | | |
|---|---|---|
| ***Surface and Volume electrical resistivity. Dielectric strength*** | ***Antistatic Dissipative*** | **EN 61340-2.3 Par. 8.1 and 8.2 – IEC 61340-4.1 Par. 5.1.2 ref. ISO 1957 – IEC 61340-4.5 – ASTM D149-97a** |

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# LOADS

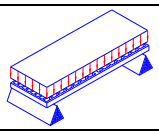
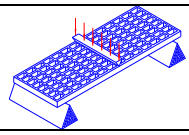
## MAXIMUM SUGGESTED LOADS

| 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

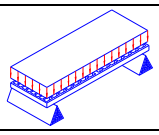
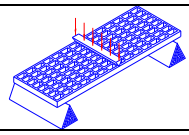
According to the standard DIN 24537-3 deviation due to the load may be no more than 1/200 of the land width and the difference in height between neighbouring joints between loaded and unloaded floor coverings may be no more than 4 mm.

| **DISTRIBUTED LOAD** |  | | **CONCENTRATED LOAD** |  | |
|---|---|---|---|---|---|
| Distance between supports [cm] | Load with deflection equal to 1/200 [kg/m²] | Load with deflection equal to 1/100 [kg/m²] | Distance between supports [cm] | Load with deflection equal to 1/200 [kg/m] | Load with deflection equal to 1/100 [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 [cm] | Maximum admitted load [kg/m²] | | Distance between supports [cm] | Maximum admitted load [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.