



# MOLDED GRATINGS

Grating type SCH 40/38\_ISO

|                              |                   |  |
|------------------------------|-------------------|--|
| <b>Mesh</b>                  | mm 40 x 40        |  |
| <b>Clear span</b>            | mm 32 x 32        |  |
| <b>Height</b>                | mm 38             |  |
| <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></b> |  | 19                                       |
| <b>tolerance</b>               |  | ± mm 5 panel dimensions<br>± mm 2 height |

|                |   |                 |   |
|----------------|---|-----------------|---|
| <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 40/38\_ISO**

20.05.2009

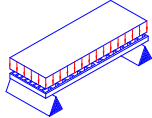
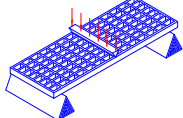
Rev. 2

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

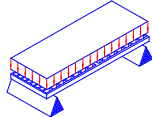
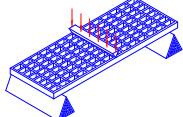
# LOADS

## 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                             | 7150  | 50                        | 2200  |
| 70                             | 2600  | 70                        | 1100  |
| 90                             | 1200  | 90                        | 650   |
| 110                            | 650   | 110                       | 450   |
| 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<br>(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                             | 12450   | 50                        | 3100  |
| 70                             | 6350  | 70                        | 2200  |
| 90                             | 3850  | 90                        | 1700  |
| 110                            | 2550  | 110                       | 1400  |
| 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 ±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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