

# DATASHEET SOS-DST-07



**Step on Safety**  
*For everything, GRP*

## MECHANICAL AND PHYSICAL DATA OF MINI MESH MOULDED FIBREGLASS GRATING (22, 30 AND 38MM)

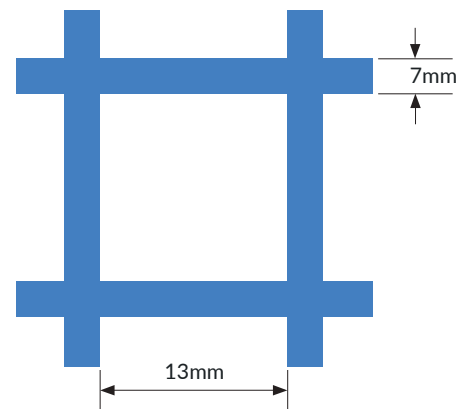
| Grating Depth (mm) | Bar Thickness |     | Per 300mm of Width |                 |                 |                      | No. of Bars Per 300mm | % Glass Content | Weight KG/M <sup>2</sup> | % Open Area |
|--------------------|---------------|-----|--------------------|-----------------|-----------------|----------------------|-----------------------|-----------------|--------------------------|-------------|
|                    | Top           | Btm | cm <sup>2</sup>    | cm <sup>3</sup> | cm <sup>4</sup> | EI KG/M <sup>2</sup> |                       |                 |                          |             |
| 22                 | 7             | 5   | 14.8               | 4.2             | 5.5             | 78.1                 | 15                    | 32.3            | 16                       | 42          |
| 30                 | 7             | 5   | 17.9               | 9.3             | 17.5            | 250                  | 15                    | 32.2            | 18.8                     | 42          |
| 30                 | 7             | 5   | 21.2               | 14.7            | 30.8            | 448                  | 8                     | 32.2            | 24.5                     | 42          |

### Weight

- 22 x 20mm: 16KG/metre<sup>2</sup>.
- 30 x 20mm: 18.8KG/metre<sup>2</sup>.
- 38 x 20mm: 24.5KG/metre<sup>2</sup>.

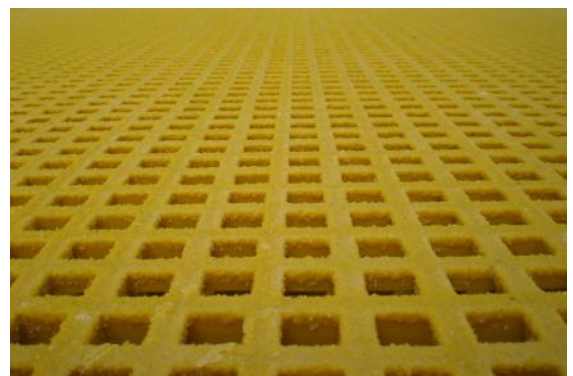
### Mechanical Data

- Elastic Modulus 27GPa.
- Flexural Strength 2.8GPa.
- Tensile Strength 650MPa.
- Compressive Strength 90MPa.
- Dielectric Strength 18KW/mm.
- Specific Gravity 1.5÷1.7.
- Thermal Expansion Factor  $13 \times 10^{-6}$  mm/mm °C.
- Water Absorption 0.1% + 0.3% x 24 hours (ISO R62).
- Operating Temperature -100°C to +180°C.



### Manufacturing Tolerances

- Standard Panel Size = +2mm, -0mm.
- Cut Panel Size = ±3mm.
- Thickness = ±1mm.
- Mesh Pattern = ±0.5mm.



### FOR MORE INFO

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