

# FOAMGLAS® SKYPEARLS 38

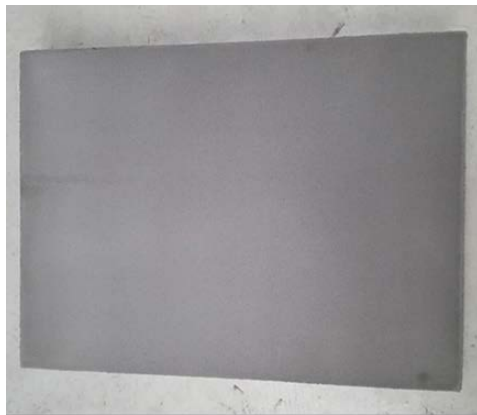
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FIW-1-382.0-01



FOAMGLAS® SKYPEARLS 38 is cellular glass with a pre-applied inorganic coating\* on the front face. Both the core material and the coating have an A1 -fire classification and therefore is incombustible.

**Form of delivery (content per pallet)**

| length x width [mm]            | 600 x 450 |      |      |      |      |      |      |      |
|--------------------------------|-----------|------|------|------|------|------|------|------|
| thickness [mm]                 | 100       | 110  | 120  | 130  | 140  | 150  | 160  | 170  |
| units                          | 48        | 40   | 40   | 36   | 32   | 32   | 28   | 28   |
| square metre [m <sup>2</sup> ] | 12.96     | 10.8 | 10.8 | 9.72 | 8.64 | 8.64 | 7.56 | 7.56 |

| length x width [mm]            | 600 x 450 |      |      |  |  |  |  |  |
|--------------------------------|-----------|------|------|--|--|--|--|--|
| thickness [mm]                 | 180       | 190  | 200  |  |  |  |  |  |
| units                          | 24        | 24   | 24   |  |  |  |  |  |
| square metre [m <sup>2</sup> ] | 6.48      | 6.48 | 6.48 |  |  |  |  |  |

\* Color: Shade of grey cannot be guaranteed and can vary in batch

**General FOAMGLAS® Cellular Glass Insulation characteristics**

- Description : FOAMGLAS® Insulation is manufactured from specially graded recycled glass and natural raw materials which are available in abundant supply (sand, dolomite, lime...). The insulation is totally inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without VOC or other volatile substances.
- Reaction to fire (EN 13501-1) : Material complying with Euroclass A1, non-combustible, no toxic fumes
- Service temperature limits : from -265°C to +430°C
- Water vapour resistance (EN ISO 10456) :  $\mu = \infty$
- Hygroscopicity : zero
- Capillarity : zero
- Thermal expansion coefficient (EN 13471) :  $9 \times 10^{-6} \text{ K}^{-1}$
- Specific heat (EN ISO 10456) : 1000 J/(kg.K)

**FOAMGLAS® characteristics**

|                                 |                            |                      |                           |                                     |
|---------------------------------|----------------------------|----------------------|---------------------------|-------------------------------------|
|                                 |                            |                      |                           |                                     |
| Time-tested thermal performance | Waterproof                 | Resistant to attack  | High compressive strength | Acid resistant / chemical resistant |
|                                 |                            |                      |                           |                                     |
| Non-combustible                 | Impervious to water vapour | Dimensionally stable | Ecological                | Radon protection                    |

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**1. Product characteristics according to EN 13167 <sup>1)</sup>**

|   |  |
|---|--|
| Density ( $\pm 15\%$ ) (EN 1602)                          | : 100 kg/m <sup>3</sup>  |
| Thickness (EN 823) $\pm 2$ mm                             | : from 100 to 200 mm   |
| Length (EN 822) $\pm 2$ mm                                | : 600 mm   |
| Width (EN 822) $\pm 2$ mm                                 | : 450 mm   |
| Squareness (EN 824)                                       | : $S_{l,b} \leq 5$ mm/m, $S_d \leq 2$ mm                                       |
| Flatness (EN 825)   | : $\leq 2$ mm  |
| Thermal conductivity (EN ISO 10456)                       | : $\lambda_D \leq 0.038$ W/(m·K)   |
| Reaction to fire (EN 13501-1)                             | : Euroclass A1   |
| Point load (EN 12430)                                     | : $PL \leq 1.5$ mm   |
| Point load Top (EN 12430)                                 | : $PL \leq 1$ mm ( $\leq 0,5$ mm)  |
| Compressive strength (EN 826 annexe A)                    | : $CS \geq 400$ kPa  |
| Bending strength (EN 12089)                               | : $BS \geq 450$ kPa  |
| Tensile strength (EN 1607)                                | : $TR \geq 100$ kPa  |
| Dimensional stability after 48h @ 70°C & 90% RH (EN 1604) | : $DS(70,90)$ , $\Delta\epsilon_{l,b} \leq 0,5$ %, $\Delta\epsilon_d \leq 1$ % |
| Water absorption on short term (EN 1609)                  | : $WS \leq 0,5$ kg/m <sup>2</sup>  |
| Water vapour resistance (EN ISO 10456)                    | : $\infty$   |
| Color   | : grey <sup>2)</sup>   |

- 1) CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 13167; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3<sup>rd</sup> party.
- 2) Color: Shade of grey cannot be guaranteed and can vary in batch.

**2. Additional product characteristics**

$\lambda_D$ -value and mean  $t^\circ$  range (EN ISO 13787) : + 35 °C  $\leq 0.042$  W/(m/K)

**3. Applications**

## Façades

- Ventilated
- Green Facades

## Interior applications

- Air Ducts/ Ventilation Shafts
- Parking Garages (Ceilings)
- Indoor Applications (Walls, Ceilings)