

## TECHNICAL DATA SHEET

STIKLOPORAS expanded glass is available in seven standard granular sizes from 0.1 - 16 mm.



| DESIGNATION                                  | STANDARD                        | BASIC GRANULAR SIZES   |          |        |        |        |        |        |
|--|---------------------------------|------------------------|----------|--------|--------|--------|--------|--------|
|  |                                 | 0.1-0.3                | 0.25-0.5 | 0.5-1  | 1-2    | 2-4    | 4-8    | 8-16   |
| Granular size in mm                          | LST EN 933-1                    |                        |          |        |        |        |        |        |
| Bulk density in kg/m <sup>3</sup> (±15%)     | LST EN 1097-3                   | 400                    | 340      | 270    | 230    | 200    | 190    | 140    |
| Particle density in kg/m <sup>3</sup> (±15%) | LST EN 1097-6:2003 ,<br>C annex | 570                    | 520      | 420    | 370    | 340    | 250    | 170    |
| Compressive strength in MPa (±0,5 MPa)       | LST EN 13055-1,<br>A annex      | 3.0                    | 2.5      | 2.2    | 2.0    | 1.4    | 1.2    | 1.0    |
| Thermal conductivity in W/(m-K)              | LST EN 12939:2002               | -                      | 0,0767   | 0,0713 | 0,0663 | 0,0639 | 0.0661 | 0.0594 |
| Water absorption % by mass* (±15%)           | LST EN 1097-6:2002,<br>C Annex  | 15 %                   |          |        |        |        |        |        |
| Thermal and weathering properties, MS**      | LST EN 1367-2:2010              | 3                      |          |        |        |        |        |        |
| Oversize                                     | LST EN 13055-1                  | 10%                    |          |        |        |        |        |        |
| Undersize                                    | LST EN 13055-1                  | 15%                    |          |        |        |        |        |        |
| pH value                                     |                                 | 9-11                   |          |        |        |        |        |        |
| Moisture content on delivery                 |                                 | <0.5%                  |          |        |        |        |        |        |
| Softening point                              |                                 | Approx. 700°C / 1300°F |          |        |        |        |        |        |
| Acid soluble sulphates                       |                                 | Average value 0,06 %   |          |        |        |        |        |        |
| Total sulphur                                |                                 | Average value 0,03 %   |          |        |        |        |        |        |
| Colour                                       |                                 | Cream white            |          |        |        |        |        |        |

\* Absorption % after 24 hours submerged in water

\*\* After 5 cycles

Technical data given after testing basic grain sizes according to LST EN 13055-1:2004/AC: 2004.

Lightweight aggregates- Part 1: Lightweight aggregates for concrete, mortar and grout.

Modified 22/11/2017