

# Ecolite™

ECOLITE expanded glass granules are non-flammable lightweight aggregates, made from recycled post consumer glass, possessing excellent thermal and acoustic properties.



| Physical Properties                  |             |               | Ecolite 4000/8000     |
|--------------------------------------|-------------|---------------|-----------------------|
| Grain size                           | (mm)        | EN 933-1      | 4 - 8                 |
| Loose bulk density                   | (kg/m³)±15% | EN 1097-3     | 170                   |
| Particle density                     | (kg/m³)±15% | DIN V 18004   | 300                   |
| Compressive strength                 | (MPa)       | EN 13055-1    | >1.9                  |
| Chemical properties                  |             |               |                       |
| Chloride                             | (wt %)      | DIN EN 1744-1 | < 0.01                |
| Acid-soluble sulfate                 | (wt %)      |               | < 0.1                 |
| Total sulfur                         | (wt %)      |               | < 0.1                 |
| Other properties                     |             |               |                       |
| Thermal conductivity                 | (W/(mK))    | DIN 52612-1   | 0.07                  |
| Water vapour diffusion resistance, μ |             | DIN 52615     | 5                     |
| 1h water absorption                  | (wt %)      |               | 1.3                   |
| 24h water absorption                 | (wt %)      |               | 9.11                  |
| Fire classification                  |             | DIN 4102-4    | A1                    |
| VOC-class                            |             | DIN EN 717-1  | A+                    |
| Colour                               |             |               | Light Grey            |
| Softening Point                      |             |               | approx. 700 °C        |
| Material definition                  |             | EN 13055-1    | Lightweight aggregate |

| Chemical Composition           |     |
|--------------------------------|-----|
| SiO <sub>2</sub>               | 73% |
| Na <sub>2</sub> O              | 13% |
| CaO                            | 8%  |
| MgO                            | 3%  |
| Al <sub>2</sub> O <sub>3</sub> | 2%  |
| K <sub>2</sub> O               | 1%  |

