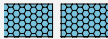

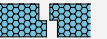
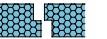




## Dow Building Solutions

### Technical Data

# STYROFOAM™

| Properties  | Standard                    | Unit              | CE Code                         | FLOORMATE™  |  |  | PERIMATE™  |
|---|-----------------------------|-------------------|---------------------------------|---|--|--|--|
|   |                             |                   |                                 | 300-A   | 500-A  | 700-A  | DI-A   |
| Thermal conductivity*<br>≤ 70mm   | BS EN 12667                 | W/mK              | λ <sub>D</sub>                  | 0.033   | 0.034  | 0.034  | –  |
| 71-80mm   | BS EN 12667                 | W/mK              | λ <sub>D</sub>                  | 0.033   | 0.035  | –  | –  |
| 81-100mm  | BS EN 12667                 | W/mK              | λ <sub>D</sub>                  | 0.034   | –  | 0.035  | 0.034  |
| 101-120mm   | BS EN 12667                 | W/mK              | λ <sub>D</sub>                  | 0.034   | –  | –  | –  |
| ≥ 121mm   | BS EN 12667                 | W/mK              | λ <sub>D</sub>                  | 0.036   | –  | –  | –  |
| Compressive strength or compressive stress at 10% deformation (90 days) | BS EN 826                   | kPa               | CS(10/Y)                        | 300   | 500  | 700  | 300  |
| Compressive creep (design load) max 2% deflection after 50 years        | BS EN 1606                  | kPa               | CC<br>(2/1.5/50) σ <sub>c</sub> | 130   | 180  | 250  | –  |
| Water vapour diffusion resistance factor                                | BS EN 12086<br>EN ISO 10456 | –                 | MU                              | 80-200  | 80-200   | 80-200   | 80-200   |
| Water absorption<br>Total immersion                                     | BS EN 12087                 | Vol-%             | WL(T)                           | ≤0.7  | ≤0.7   | ≤0.7   | ≤0.7   |
| Diffusion<br>≥ 50mm < 80mm  | BS EN 12088                 | Vol-%             | WD(V)                           | –   | ≤2   | ≤2   | –  |
| ≥ 80mm  | BS EN 12088                 | Vol-%             | WD(V)                           | –   | ≤1   | ≤1   | ≤1   |
| Freeze/thaw, after 300 cycles   | BS EN 12091                 | Vol-%             | FTCD                            | –   | ≤1   | ≤1   | ≤2   |
| Deformation under load and temperature<br>168 hrs at 40kPa/70°C         | BS EN 1605                  | %                 | DLT(2)5                         | ≤5  | ≤5   | ≤5   | –  |
| Density (aim, foam only)  | BS EN 1602                  | kg/m <sup>3</sup> | –                               | 33  | 38   | 42   | 33   |
| Dimensions<br>Length  | BS EN 822                   | mm                | –                               | 2500  | 1250   | 1250   | 1250   |
| Width   | BS EN 822                   | mm                | –                               | 600   | 600  | 600  | 600  |
| Thickness   | BS EN 823                   | mm                | T                               | 50, 75, 100,<br>125, 150, 200   | 50, 75   | 50, 100  | 100  |
| Fire classification<br>Reaction to fire                                 | BS EN 13164<br>BS EN 13501  | –                 | Euroclass                       | E   | E  | E  | E  |
| Appearance<br>Surface   | –                           | –                 | –                               | skin  | skin   | skin   | grooved face<br>& geotextile   |
| Edge profile  | –                           | –                 | –                               | butt edge<br> | shiplap<br> | shiplap<br> | shiplap<br> |
| Application   | –                           | –                 | –                               | Floors -<br>domestic and<br>medium load<br>bearing  | Floors -<br>high<br>loadbearing  | Floors -<br>very highload<br>bearing   | Basement walls<br>external   |

The properties given are typical (unless stated otherwise)  
\* declared 90/90 value - BS EN 13164

Dow Building Solutions (UK & Ireland) has a BREEAM A rating for its ROOFMATE™ SL -A, FLOORMATE™ 300- A and STYROFOAM™ LB -A insulation materials, all of which are manufactured at King's Lynn in the UK. BREEAM is the world's foremost environmental assessment method and rating system for buildings. The ratings support the International Code for a Sustainable Built Environment.

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Visit [www.dowxenergy.co.uk](http://www.dowxenergy.co.uk) for further information on XENERGY™ SL insulation products as well as adhesives and sealants from Dow Building Solutions. For technical enquiries email [FKLTECH@dow.com](mailto:FKLTECH@dow.com).

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